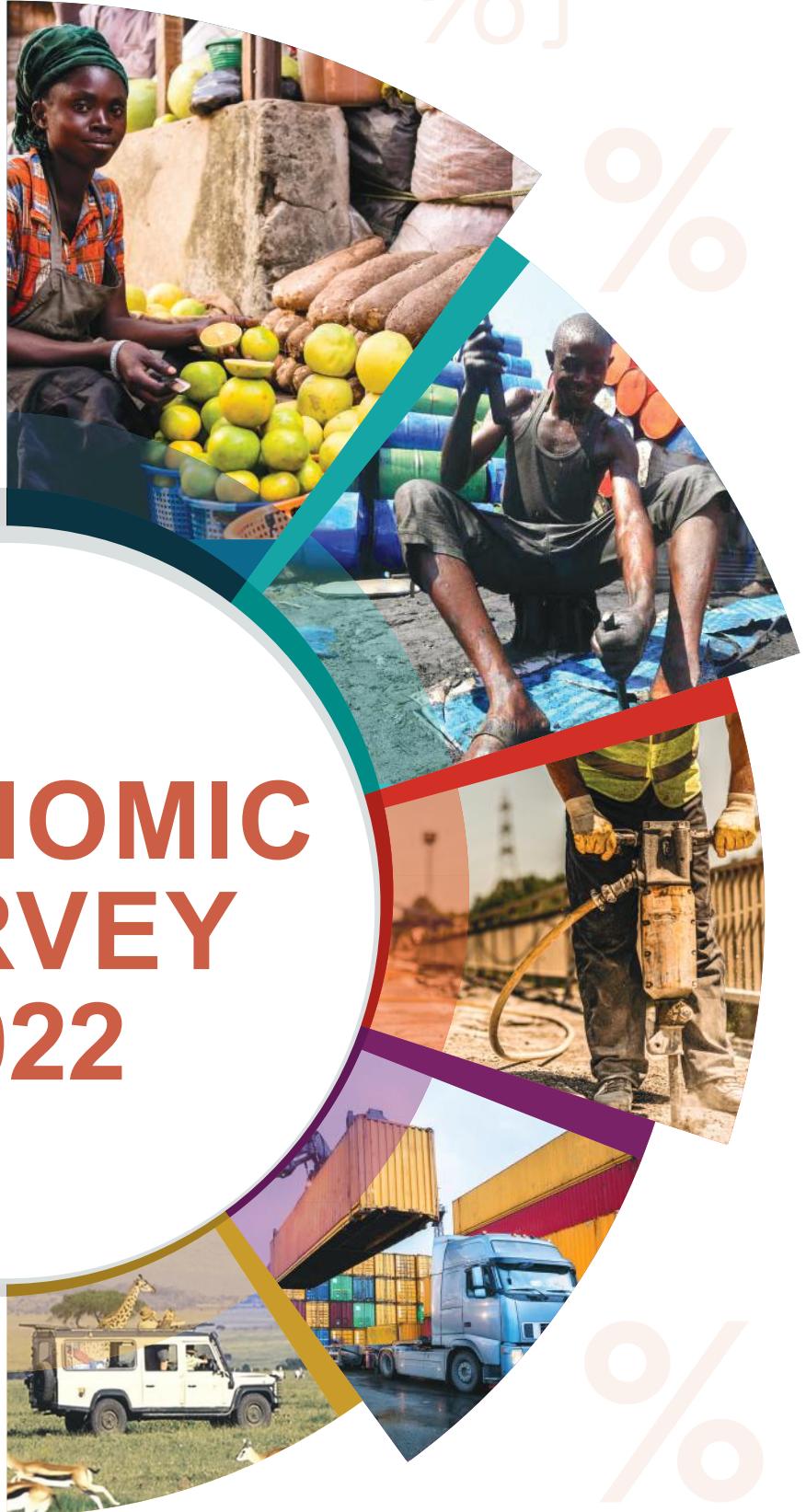




# ECONOMIC SURVEY 2022





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## Background Information

### About KNBS

The Kenya National Bureau of Statistics (KNBS) is the principal agency of the Government for collecting, analysing and disseminating statistical data, and the custodian of official statistical information. The Bureau is also responsible for the co-ordination of the National Statistical System (NSS).

The functions of KNBS as defined in the Statistics Act 2006 are:

- (a) Planning, authorising, co-ordinating and supervising all official statistical programmes undertaken within the national statistical system;
- (b) Establishing standards and ensuring the use of best practices and methods in the production and dissemination of statistical information across the national statistical system;
- (c) Collecting, compiling, analyzing, abstracting and disseminating statistical information on the matters specified in the First Schedule;
- (d) Conducting the Population and Housing Census every ten years, and such other censuses and surveys as the Board may determine;
- (e) Maintaining a comprehensive and reliable national socio-economic database.
- (f) Developing and maintaining sampling frames of the Bureau;
- (g) Collaborating with and assisting the county governments or any other institutions in the production of official statistics;
- (h) Providing technical advice on statistics to other state entities;
- (i) Promoting co-ordination among producers, users and suppliers of official statistics by forming appropriate sector committees; and
- (j) Designating statistics produced by national statistical system as official statistics on being satisfied that the necessary criteria have been followed.

KNBS has an elaborate infrastructure for data collection across the country. This includes, a County

Statistical Office in each of the 47 counties as data collection center, two sampling frames for implementation of censuses and surveys and various databases for socio-economic statistical information.

The Bureau collects various statistical information on monthly, quarterly, semi-annually and annual basis. Ad hoc surveys and studies are also carried out to gather information on specific indicators.

Some of the statistical products of the Bureau include, Consumer Price Index (CPI), Leading Economic Indicators report, Quarterly Gross Domestic Product (GDP) release, Quarterly Producer Price Index (PPI), Quarterly Balance of Payment release, Annual Economic Survey report, Annual Statistical Abstract and County Statistical Abstract.

The Bureau also provides information to local and international organizations including the IMF, World Bank, UN, COMESA, ILO and EAC; and other data users. The Bureau maintains various platforms through which its products and statistical information are disseminated.

The Bureau provides information for monitoring the country's development agenda as well as internationally agreed indicators such as the Sustainable Development Goals (SDGs).



**KNBS has an elaborate infrastructure for data collection across the country. This includes, a County Statistical Office in each of the 47 counties as data collection center, two sampling frames for implementation of censuses and surveys and various databases for socio-economic statistical information**

In undertaking its mandate, the Bureau is guided by the following Vision, Mission and Core Values.

### **Vision**

“To be a global leader in the provision of quality statistical services”

### **Mission**

“To provide, manage and promote quality statistical services through utilization of best practices for evidence-based decision making”.

### **Core Values**

**Professionalism:** The Bureau will strictly abide by professional considerations, including scientific principles and ethics on methods, standards and procedures for provision of quality statistical services.

**Integrity:** The Bureau will adhere to the principles of good governance to ensure transparency and accountability in undertaking its programmes and activities.

**Confidentiality:** The Bureau will treat all information provided by stakeholders with strict confidentiality and use it exclusively for statistical purposes.

**Customer Focus:** The Bureau commits itself to align its programmes to the expectations of its stakeholders and attaining the highest standards in service delivery.

**Innovation:** The Bureau will continuously embrace creativity and innovation for value-addition in its business processes.

**Teamwork:** The Bureau will embrace teamwork in pursuing timely attainment of targeted results at all levels, through coordination and networking.

### Data Quality

The Economic Survey report is an annual publication prepared by the Kenya National Bureau of Statistics that provides socio-economic information covering a five-year period. Statistics presented in Economic Survey reports are produced in line with internationally sound and scientific methods that are anchored on the fundamental principles of producing official statistics.

In particular, the report presents information on all sectors of the economy based on the Kenya Standard Industrial classification of all Economic Activities (KESIC), as well as information on other emerging topical issues.

### Data Sources

The statistics published in the Economic Survey reports are based on a wide variety of sources including own surveys and censuses, studies carried out by other institutions and administrative data collected by Ministries, Departments and Agencies, County Governments; and establishments. The sources of data are always recognized.

### Accuracy and Reliability

All censuses and surveys conducted by the Bureau are based on international standards and methods. Sampling and non-sampling errors that may occur in a census or survey are always disclosed. Data from administrative sources are subject to international best practices on statistics and are verified and validated through sectoral Technical Working Groups.

### Periodicity

The Economic Survey report is published annually.

### Consistency

The Bureau maintains a compendium of statistical definitions. The Bureau has endeavored to provide the same format of statistical tables as in previous years to enable consistency and trend comparison over time.

### Accessibility

The Economic Survey and other KNBS reports are disseminated through various platforms. The platforms include the KNBS website: [www.knbs.or.ke](http://www.knbs.or.ke), publications, press releases and social media. The hardcopy publication is also available at the headquarter and county offices.

### Timeliness

The report is produced at most 150 days after the end of the review year.



**The Bureau maintains a compendium of statistical definitions. The Bureau has endeavored to provide the same format of statistical tables as in previous years to enable consistency and trend comparison over time**

## List of Acronyms and Abbreviations

|        |   |
|--------|---|
| 2G     | Second Generation Network                           |
| 3G     | Third Generation Network                            |
| 4G     | Fourth Generation Network                           |
| ADNOC  | Abu Dhabi National Oil Corporation                  |
| AFA    | Agriculture and Food Authority                      |
| AfDB   | African Development Bank                            |
| AG     | Attorney General                                    |
| AGOA   | African Growth and Opportunity Act                  |
| AGPO   | Access to Government Procurement Opportunities      |
| AIA    | Appropriation In Aid                                |
| AIDS   | Acquired Immuno-Deficiency Syndrome                 |
| AM     | Amplitude Modulation                                |
| AMEL   | Aircraft Maintenance Engineers License              |
| AMOS   | Approved Maintenance Organizations                  |
| ANC    | Ante-Natal Care                                     |
| AOC    | Air Operator Certificate                            |
| ASEAN  | Association of South Eastern Asia Nations           |
| ASFR   | Age Specific Fertility Rates                        |
| ASPs   | Application Service Providers                       |
| ATCOs  | Air Traffic Controllers                             |
| ATOS   | Approved Training Organizations                     |
| ATPL   | Air Transport Pilot License                         |
| BEC    | Broad Economic Category                             |
| BH     | Boreholes   |
| BOP    | Balance of Payments                                 |
| Bps    | Bits per second                                     |
| BTL    | Bilateral Tubal Ligation                            |
| CAK    | Communications Authority of Kenya                   |
| CBA    | Collective Bargaining Agreement                     |
| CBC    | Competency Based Curriculum                         |
| CBK    | Central Bank of Kenya                               |
| CBR    | Central Bank Rate                                   |
| CDMA   | Code Division Multiple Access                       |
| CDR    | Crude Death Rate                                    |
| CECM   | County Executive Committee Members                  |
| CECs   | County Executive Committees                         |
| CFS    | Container Freight Station                           |
| CIF    | Cost, Insurance & Freight                           |
| CIP    | Census of Industrial Production                     |
| CIPI   | Construction Input Price Indices                    |
| CMA    | Capital Markets Authority                           |
| CMC    | Cabin-Crew Member Certificate                       |
| COA    | Certificate of Air Worthiness                       |
| COICOP | Classification of Individual Consumption by Purpose |

|         |  |
|---------|--|
| COMESA  | Common Market for Eastern and Southern Africa          |
| CPC     | Central Product classifications                        |
| CPI     | Consumer Price Indices                                 |
| CPIMS   | Child Protection Information Management Systems        |
| CPL     | Commercial Pilot License                               |
| CT-OVC  | Cash Transfer for Orphans and Vulnerable Children Fund |
| CT-PWSD | Cash Transfer to Persons with Severe Disabilities      |
| CTU     | Cane Testing Units                                     |
| DBK     | Development Bank of Kenya                              |
| DDoS    | Distributed Denial of Service                          |
| DES     | Dietary Energy Supply                                  |
| DHIS    | District Health Information System                     |
| DMU     | Diesel Multiple Units                                  |
| DSL     | Digital Subscriber Line                                |
| DTSSs   | Deposit Taking Savings and Credit Cooperatives         |
| DWT     | Deadweight Tons  |
| EA      | Environmental Audit                                    |
| EAC     | East African Community                                 |
| EACC    | Ethics and Anti-Corruption Commission                  |
| EAs     | Enumeration Areas                                      |
| ECDE    | Early Childhood Development Education                  |
| EIA     | Environmental Impact Assessment                        |
| EIB     | European Investment Bank                               |
| EMDE    | Emerging Market and Developing Economies               |
| EMS     | Expedited Mail Service                                 |
| EOPS    | Early Oil Pilot Scheme                                 |
| EPP     | Emergency Power Producers                              |
| EPRA    | Energy and Petroleum Regulatory Authority              |
| EPZ     | Export Processing Zone                                 |
| EPZA    | Export Processing Zones Authority                      |
| EU      | European Union   |
| FAO     | Food and Agriculture Organization                      |
| FBO     | Faith Based Organization                               |
| FBS     | Food Balance Sheet                                     |
| FDI     | Foreign Direct Investment                              |
| FGM     | Female Genital Mutilation                              |
| FM      | Frequency Modulation                                   |
| FOB     | Free On Board  |
| FP      | Family Planning  |
| FSDK    | Financial Sector Deepening Kenya                       |
| FttH    | Fibre to the Home                                      |
| FttO    | Fibre to the Office                                    |
| FY      | Financial Year   |
| GB      | General Business                                       |
| GDP     | Gross Domestic Product                                 |
| GFCF    | Gross Fixed Capital Formation                          |
| GNDI    | Gross National Disposable Income                       |

|            |   |
|------------|---|
| GNI        | Gross National Income   |
| GoK        | Government of Kenya   |
| GSM        | Global System for Mobile Communications                                     |
| GVA        | Gross Value Added   |
| GWh        | Giga Watt Hours   |
| Ha         | Hectares  |
| HELB       | Higher Education Loans Board  |
| HSNP       | Hunger Safety Net Program   |
| HTTP       | Hyper Text Transfer Protocol  |
| ICAO       | International Civil Aviation Organization                                   |
| ICDC       | Industrial and Commercial Development Corporation                           |
| ICT        | Information and Communication Technology                                    |
| ID         | Identity Card   |
| IDA        | International Development Association                                       |
| IDB        | Industrial Development Bank   |
| IDR        | Import Dependency Ratio   |
| IEBC       | Independent Electoral and Boundaries Commission                             |
| IFAD       | International Fund for Agricultural Development                             |
| IFS        | International Financial Services  |
| IIP        | Index of Industrial Production  |
| ILO        | International Labour Organisation   |
| IMF        | International Monetary Fund   |
| IMR        | Infant Mortality Rate   |
| IMT        | International Mobile Telecommunications                                     |
| IP         | Internet Protocol   |
| IPP        | Independent Power Producers   |
| IPTV       | Internet-Protocol Televisions   |
| IRA        | Insurance Regulatory Authority  |
| ISIC       | International Standard Industrial Classification of All Economic Activities |
| ISP        | Internet Service Provider   |
| IT         | Information Technology  |
| IUCD       | Intrauterine Contraceptive Device   |
| JKIA       | Jomo Kenyatta International Airport   |
| KAPU       | Kenya Airport Police Unit   |
| Kbps       | Kilobytes per second  |
| KCAA       | Kenya Civil Aviation Authority  |
| KCB        | Kenya Commercial Bank   |
| KCPE       | Kenya Certificate of Primary Education                                      |
| KCSE       | Kenya Certificate of Secondary Education                                    |
| KDB        | Kenya Dairy Board   |
| KDC        | Kenya Development Corporation   |
| KE-CIRT/CC | Kenya Computer Incident Response Team/Coordination Centre                   |
| KenGen     | Kenya Electricity Generating Company  |
| KenInvest  | Kenya Investment Authority  |
| KEPH       | Kenya Essential Package for Health  |
| KeRRA      | Kenya Rural Roads Authority   |
| KETRACO    | Kenya Electricity Transmission Company Limited                              |

|         |   |
|---------|---|
| KFS     | Kenya Forest Service  |
| KG      | Kilograms   |
| KHIS    | Kenya Health Information System   |
| K-HMSF  | Kenya Household Master Sample Frame   |
| KHRO    | Kenya Health and Research Observatory   |
| KIE     | Kenya Industrial Estate   |
| KM      | Kilometers  |
| KMHFL   | Kenya Master Health Facility List   |
| KMTC    | Kenya Medical Training College  |
| KNBS    | Kenya National Bureau of Statistics   |
| KPA     | Kenya Ports Authority   |
| KPC     | Kenya Pipeline Corporation  |
| KPHC    | Kenya Population and Housing Census   |
| KPLC    | Kenya Power and Lighting Company  |
| KPRL    | Kenya Petroleum Refineries Limited  |
| KRA     | Kenya Revenue Authority   |
| KRB     | Kenya Roads Board   |
| KSh     | Kenya Shillings   |
| KUCCPS  | Kenya Universities and Colleges Central Placement Service                                   |
| KURA    | Kenya Urban Roads Authority   |
| kV      | Kilo Volts  |
| KW      | Kilo watt   |
| KWh     | Kilo Watt Hour  |
| KWS     | Kenya Wildlife Service  |
| KYDP    | Kenya Youth Development Policy  |
| LAPSSET | Lamu Port Southern Sudan-Ethiopia Transport Corridor  |
| LIA     | Letter of Interim Authority   |
| LPG     | Liquefied Petroleum Gas   |
| LTE     | Long Term Evolution   |
| LTM     | Long Term Mean  |
| M1      | Narrow Money supply   |
| M2      | Broad Money supply (Money supplied by CBK, Commercial Banks and Micro Finance Institutions) |
| M2M     | Machine 2 Machine   |
| M3      | Extended Broad Money Supply(M2 plus Foreign Currency Holdings by Residents)                 |
| MAM     | March-April-May   |
| Mbps    | Megabits Per Second   |
| MCA     | Member of County Assembly   |
| MDAs    | Ministries, Departments and Agencies  |
| MDP     | Management Development Programmes   |
| MFS     | Mobile Financial Service  |
| MGR     | Meter Gauge Railway   |
| MHz     | MegaHertz   |
| MIA     | Moi International Airport   |
| MM      | Millimetres   |
| MMR     | Maternal Mortality Ratio  |
| MNOs    | Mobile Network Operators  |

|           |   |
|-----------|---|
| MNP       | Mobile Numbers Ported   |
| MOH       | Ministry of Health  |
| MOTIHUDPW | Ministry of Transport and Infrastructure, Housing, Urban Development and Public Works |
| MT        | Metric Tonnes   |
| MTP       | Medium Term Plan  |
| MTP III   | Third Medium Term Plan  |
| MVNOs     | Mobile Virtual Network Operators  |
| MW        | Mega Watts  |
| n.e.c     | not elsewhere classified  |
| n.e.s     | not elsewhere specified   |
| NACOSTI   | National Commission for Science, Technology and Innovation                            |
| NBK       | National Bank of Kenya  |
| NCC       | Nairobi City County   |
| NCPB      | National Cereals and Produce Board  |
| NCR       | Nairobi Commuter Rail   |
| NDE       | New Digital Economy   |
| NDMA      | National Drought Management Authority   |
| NEMA      | National Environment Management Authority   |
| NEMIS     | National Education Management Information System                                      |
| NFA       | Net Foreign Assets  |
| NGAAF     | National Government Affirmative Action Fund   |
| NGO       | Non-Governmental Organization   |
| NHC       | National Housing Corporation  |
| NHIF      | National Hospital Insurance Fund  |
| NIA       | National Irrigation Authority   |
| NIB       | National Irrigation Board   |
| NIC       | National Industrial Credit  |
| NPR       | Not Previously Registered   |
| NPS       | National Police Service   |
| NSE       | Nairobi Securities Exchange   |
| NSS       | National Statistical System   |
| NSSF      | National Social Security Fund   |
| NTSA      | National Transport and Safety Authority   |
| NWCPC     | National Water Corporation and Pipeline Corporation                                   |
| NYS       | National Youth Service  |
| ODPP      | Office of the Director of Public Prosecutions   |
| OECD      | Organization of Economic Cooperation and Development                                  |
| OL        | Overall liquidity   |
| OND       | October-November-December   |
| OP        | Older Persons   |
| OPCT      | Older Persons Cash Transfer   |
| OPEC      | Organization of Petroleum Exporting Countries   |
| OVC       | Orphans and Vulnerable Children   |
| PAYE      | Pay As You Earn   |
| PCK       | Postal Corporation of Kenya   |
| PCR       | Pupil Completion Rate   |

|                               |   |
|-------------------------------|---|
| PIN                           | Personal Identification Number                        |
| PPI                           | Producer Price Index                                  |
| PPL                           | Private Pilot License                                 |
| PSTR                          | Primary to Secondary Transition Rate                  |
| PSUT                          | Physical Supply and Use Tables                        |
| PSV                           | Public Service Vehicle                                |
| PWD                           | Persons with Disability                               |
| RBA                           | Retirement Benefits Authority                         |
| RRI                           | Rapid Results Initiative                              |
| SACCO                         | Savings and Credit Cooperative Societies              |
| SADC                          | Southern African Development Community                |
| SASRA                         | Sacco Societies Regulatory Authority                  |
| SDG                           | Sustainable Development Goals                         |
| SDR                           | Special Drawing Rights                                |
| SEEA                          | System of Environmental Economic Accounts             |
| SGR                           | Standard Gauge Railway                                |
| SIEC                          | Standard Industrial Energy Product Classification     |
| SITC                          | Standard International Trade Classification           |
| SLD                           | Second Level Domain                                   |
| SMAM                          | Singulate Mean Age at Marriage                        |
| SMS                           | Short Messaging Services                              |
| SNA                           | System of National Accounts                           |
| SPL                           | Student Pilot License                                 |
| SSA                           | Sub-Saharan Africa                                    |
| SSR                           | Self-Sufficiency Ratio                                |
| SUA                           | Supply and Utilization Account                        |
| SUT                           | Supply and Use Tables                                 |
| TEUs                          | Twenty-foot Equivalent Units                          |
| TFR                           | Total Fertility Rate                                  |
| TJ                            | Tera Joules   |
| TSA                           | Tourism Satellite Account                             |
| TSC                           | Teachers Service Commission                           |
| TV                            | Television  |
| TVET                          | Technical Vocational Educational Training             |
| TVETA                         | Technical Vocational Education and Training Authority |
| <td>Trade Weighted Index</td> | Trade Weighted Index                                  |
| UAE                           | United Arab Emirates                                  |
| UHC                           | Universal Health Coverage                             |
| UK                            | United Kingdom  |
| UN                            | United Nations  |
| UNWTO                         | United Nations World Tourism Organization             |
| US/USA                        | United States of America                              |
| USB                           | Universal Serial Bus                                  |
| USD                           | United States Dollar                                  |
| VAC                           | Violence Against Children                             |
| VAT                           | Value Added Tax                                       |
| VHF                           | Very High Frequency                                   |

|       |   |
|-------|---|
| VoIP  | Voice over Internet Protocol                    |
| VoIP  | Voice Over Internet Protocol                    |
| WAEMU | West African Economic and Monetary Union        |
| WEF   | Women Enterprise Fund                           |
| WiMAX | Worldwide Interoperability for Microwave Access |
| WPP   | Water Purification Points                       |
| xDSL  | (Various) Digital Subscriber Line               |
| YEDF  | Youth Enterprise Development Fund               |

## Summary and Outlook

### International Scene

World real Gross Domestic Product is estimated to have grown by 5.9 per cent in 2021 compared to a contraction of 3.1 per cent in 2020. The growth was mainly attributed to easing of COVID-19 restriction measures which led to increased global trade and increased activities in both the industrial and service sectors. The growth was manifested in advanced economies and Emerging Markets and Development Economies which expanded by 5.0 per cent and 6.5 per cent, respectively, in the review period. Sub-Saharan Africa economy grew by 3.7 per cent in 2021, mainly due to favourable weather conditions in most of the countries in the region. East Africa Community economy grew by 4.9 per cent in the period under review compared to 1.0 per cent growth in 2020.

World trade volume increased by 9.3 per cent in 2021 compared to a contraction of 8.2 per cent in 2020, reflecting increased demand and activities in the economy. Global inflation rose from 3.2 per cent in 2020 to 4.3 per cent in 2021 due to increase in prices of energy and agricultural commodities, and supply chain disruptions. Unemployment rate eased from 6.6 per cent in 2020 to 6.2 per cent in 2021 as businesses reopened and the number of working hours increased, after relaxation of COVID-19 restrictions.

### Economic Performance

Real Gross Domestic Product (GDP) is estimated to have grown by 7.5 per cent in 2021 compared to a contraction of 0.3 per cent in 2020. Most economic activities recorded positive growths except in Agriculture, Forestry and Fishing activities which contracted by 0.2 per cent in the review period. Activities that were affected more severely by the pandemic in 2020 such as Education and Accommodation and Food Service grew faster than those that were less severely affected. Economic growth in 2021 was supported by improved performance in key sectors of the economy including; Manufacturing (6.9%), Wholesale and Retail Trade (7.9%), Real Estate (6.7%), Transportation and Storage (7.2%), and Financial and insurance activities (12.5%).

In the review period, monetary policy was premised on the need to accelerate economic recovery after a slowdown witnessed in most of the economic activities in 2020. Central Bank Rate (CBR) was maintained at 7.00 per cent throughout 2021. Overall liquidity and broad money grew by 9.48 per cent and 6.1 per cent, respectively in 2021.

Agriculture remained the dominant sector, accounting for about 22.4 per cent of the overall GDP in 2021. Industry related activities and service activities accounted for about 17.0 per cent and 60.6 per cent, respectively in 2021. Nominal GDP increased from KSh 10,716.0 billion in 2020 to KSh 12,098.2 billion in 2021 while Gross National Disposable Income increased from KSh 11,058.4 billion in 2020 to KSh 12,588.2 billion in 2021. Gross domestic per capita increased by 11.4 per cent from KSh 220,132.2 in 2020 to KSh 245,145 in 2021.

### Employment, Earnings and Consumer Prices

During the review period, total new jobs created in the economy were 926.1 thousand of which 172.3 thousand were in the modern sector, while 753.8 thousand were in the informal sector. Wage employment in the private sector increased by 6.8 per cent to 1,984.2 thousand persons in 2021 from 1,858.0 thousand persons in 2020. Within the public sector, wage employment increased from 884.6 thousand persons in 2020 to 923.1 thousand persons in 2021.

The nominal wage bill for private and public sectors rose by 8.4 per cent from KSh 2,218.7 billion



**Agriculture remained the dominant sector, accounting for about 22.4 per cent of the overall GDP in 2021. Industry related activities and service activities accounted for about 17.0 per cent and 60.6 per cent, respectively in 2021**

in 2020 to KSh 2,405.4 billion in 2021. The private sector wage bill went up by 9.2 per cent to stand at KSh 1,645.3 billion in 2021 while the public sector wage bill rose by 6.8 per cent. The share of County government wage payments to the total public sector was 23.8 per cent in 2021. The overall annual average earnings per employee in the modern sector increased by 2.3 per cent from KSh 808.9 thousand in 2020 to KSh 827.4 thousand in 2021. The annual inflation as measured by the Consumer Price Index (CPI) increased from 5.4 per cent in 2020 to 6.1 per cent in 2021.

### **Money, Banking and Finance**

In 2021, the Central Bank of Kenya (CBK) lifted some measures that had been put in place in 2020 to mitigate on effects of the Coronavirus 2019 (COVID-19) pandemic including the guideline on loan restructuring. The CBK adopted a conservative monetary policy stance by maintaining the Central Bank Rate at 7.00 per cent throughout 2021.

Broad money supply (M3) grew by 6.1 per cent to KSh 4,235.2 billion while the overall liquidity grew by 10.4 per cent mainly due to a significant increase in Treasury Bills holdings. The 91-day Treasury Bill rate rose to 7.26 per cent while the average commercial bank deposit rate increased to 6.50 per cent from 6.30 per cent.

Total domestic credit growth decelerated by 15.1 per cent to KSh 4,993.8 billion in 2021 from a growth of 18.5 per cent in 2020. The slow growth partly was due to lower credit extended to National Government. Credit to the private sector grew by 8.6 per cent at the end of 2021 to stand at KSh 3,136.8 billion. During the review period, net foreign assets declined by 20.9 per cent to KSh 592.3 billion as at end of December 2021.

In the capital markets, market capitalization and bond turnover increased by 11.0 per cent and 38.3 per cent to KSh 2,592.9 billion and KSh 957.0 billion in 2021, respectively. In the insurance sector, total assets of life insurance business grew by 14.0 per cent to KSh 564.8 billion. However, total assets under the general business declined by 0.3 per cent to KSh 198.0 billion in 2021.

In the pensions sub sector, assets of pension funds increased by 10.6 per cent to KSh 1,547.4 billion in December 2021. Investments in Government securities grew to KSh 707.0 billion, reflecting a growth of 8.4 per cent. Assets of Deposit Taking Saccos increased by 11.0 per cent to stand at KSh 700.3 billion in 2021. There was an increase in deposits and loans and advanced from KSh 431.1 billion and KSh 450.8 billion in 2020 to KSh 540.6 billion and KSh 523.0 billion in 2021, respectively.

### **Public Finance**

In 2021/22, the National Government total revenue including grants is expected to grow by 15.7 per cent from KSh 1,815.1 billion in 2020/21 to KSh 2,100.7 billion. Total expense is expected to grow by 1.4 per cent to KSh 2,672.0 billion in 2021/22 with recurrent and development expenditures estimated at KSh 2,314.1 billion and KSh 358.0 billion, respectively. The total stock of National Government debt was KSh 7,188.1 billion as at end of June 2021, with external debt accounting for 53.5 per cent of the total debt. A total of KSh 1,094.0 billion is expected to be spent on National Government debt servicing.

The total County Government revenues are estimated to increase to KSh 466.6 billion in 2021/22 from KSh 397.9 billion received in 2020/21, translating to a growth of 17.3 per cent. Counties are expected to raise a total of KSh 56.7 billion as own source revenue. Expenditure is expected to increase by 21.0 per cent from KSh 425.0 billion in 2020/21 to KSh 514.3 billion in 2021/22.

### **International Trade and Balance of Payments**

The gradual easing of the COVID-19 containment protocols resulted in the opening of economies culminating in improved global trade in 2021 compared to 2020. In Kenya, the volume of trade amounted to KSh 2,894.9 billion in 2021 rising from KSh 2,287.3 billion in 2020. This was occasioned by a 30.9 per cent growth in imports together with a 15.5 per cent increase in total exports.

Expenditure on imports rose by 30.9 per cent to KSh 2,151.2 billion in 2021, largely on account of

increased expenditure on petroleum products, iron and steel, animal fats and oils; and vehicles. Similarly, earnings from total exports grew for the second consecutive year to KSh 743.7 billion in 2021. Horticultural products, articles of apparel and clothing accessories; titanium ores and concentrates were some of the commodities that drove the increase in export earnings.

The faster growth of imports compared to exports, resulted to a widening of the balance of trade deficit from KSh 999.9 billion in 2020 to KSh 1,407.6 billion in 2021. Earnings from total exports could only cater for 34.6 per cent of the country's imports, during the year under review.

The widening balance of trade deficit in general merchandise trade resulted in a deterioration of the current account balance from a deficit of KSh 510.1 billion in 2020 to a deficit of KSh 663.0 billion in 2021. This was despite a KSh 92.8 billion surplus in the services account and a KSh 671.6 billion surplus in the secondary income account, in 2021. Remittances continued to register robust growth, with inflows of KSh 413.3 billion in 2021.

Net inflows of the financial account more than doubled during the period under review from KSh 289.5 billion in 2020 to KSh 684.6 billion in 2021, following increased disbursements of other investments. There was a buildup of Reserve Assets from a drawdown of KSh 87.5 billion in 2020 to a buildup of KSh 127.3 billion in 2021 following increased disbursements, including Special Drawing Rights (SDR) allocations by the International Monetary Fund (IMF).

### **Agriculture Sector**

In 2021, agriculture sector recorded mixed performance. The sector recorded a contraction of 0.1 per cent in 2021 compared to a growth of 5.2 per cent in 2020. The observed performance was attributed to erratic and poorly distributed long rains as well as inadequate short rains. Aggregate maize production decreased from 42.1 million bags in 2020 to 36.7 million bags in 2021. Coffee production declined by 6.0 per cent from 36.9 thousand tonnes in 2019/20 to 34.5 thousand tonnes in 2020/21 crop year. Tea production declined by 5.6 per cent from 569.5 thousand

tonnes in 2020 to 537.8 thousand tonnes in 2021, due to unfavourable weather conditions. However, the volume of sugar cane deliveries increased from 6.8 million tonnes in 2020 to 7.8 million tonnes in 2021, largely attributed to improved cane availability in most of the sugar zones. The volume of horticultural exports increased by 4.5 per cent from 313.7 thousand tonnes in 2020 to 405.5 thousand tonnes in 2021. During the review period, the volume of marketed milk increased by 26.6 per cent from 682.3 million litres in 2020 to 801.9 million litres. Overall value of marketed agricultural production increased by 4.3 per cent from KSh 505.3 billion in 2020 to KSh 527.0 billion in 2021.

### **Environment and Natural Resources**

The Gross Value Added from the Environment and Natural Resources sector grew by 17.0 per cent to stand at KSh 435.7 billion during the review period, from KSh 372.5 billion recorded in the year 2020. The contribution of the Environment and natural resources sector to the Gross Domestic Product (GDP) for the period under review stood at 3.6 per cent, compared to a contribution of 3.5 per cent in 2020.

Development expenditure for Rural Water Supplies is expected to increase from KSh 2.4 billion to KSh 3.5 billion as the Government invests more in rural water projects. Value of fish landed from various sources recorded an increase of 16.0 per cent from KSh 26.2 billion in 2020 to KSh 30.4 billion in 2021 with fish production from freshwater fish sources accounting for 76.8 per cent of the total value of fish landed during the review period. There was a 33.0 per cent increase in the value of mineral production during the review period which was largely attributed to increase in value of output from Titanium ore mineral concentrates from KSh 19.5 billion in 2020 to KSh 25.6 billion in 2021. Total forest area stood at 5,225.8 thousand hectares with a forest cover of 8.83 per cent during the review period.

An assessment of the rainfall recorded from 1st March to 31st May 2021 indicates that the rainfall performance was near average to below average over most parts of the country. The distribution, both in time and space, was generally poor over most

parts of the country. The October-November-December (OND) 2021 seasonal rainfall performance was generally poor over most parts of the country especially over the North-Western and North Eastern parts of the country.

### **Energy Sector**

There was increased demand for oil products in 2021 leading to a steady rise in the average Murban crude oil prices, from USD 41.45 per barrel in 2020 to USD 69.72 per barrel in 2021. Consequently, the total import bill of petroleum products rose to KSh 348.3 billion in 2021 from KSh 209.1 billion in 2020. In contrast, the value of total exports of petroleum products declined by 30.6 per cent to KSh 29.5 billion in 2021.

Total installed capacity of electricity increased by 5.4 per cent to 2,989.6 MW in 2021 while total effective capacity rose by 5.6 per cent to 2,857.6 MW in the same period. Similarly, total electricity generation rose by 7.0 per cent to 12,414.7 GWh in 2021, with 89.6 per cent of electricity generated from renewable sources. Domestic demand increased from 8,796.4 GWh in 2020 to 9,565.4 GWh in 2021. The number of customers connected under the Rural Electrification Programme grew from 1,502.9 thousand in 2019/20 to 1,912.4 thousand in 2020/21. As at 31st December 2021, the country had a stock of 7,676 ckm (circuit length kilometres) transmission lines with voltages of between 132kV and 400kV. Additionally, there were 247,905 ckm of transmission and distribution lines of between 400/230v and 66kV in the same period.



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### **Manufacturing Sector**

In 2021, real value added in the manufacturing sector grew by 6.9 per cent compared to a growth of negative 0.4 per cent recorded in 2020. The share of the manufacturing sector to GDP was 7.2 per cent while the volume of output expanded by 6.0 per cent in the same period. The growth was mainly due to increased production of Other Non-metallic Mineral Products like cement, Leather and Related Products and Dairy Products sub sectors among others. However, in the review period decline in production was recorded in Prepared and Preserved Fruits and Vegetables, Animal and Vegetable Fats and Oils, Furniture and Pharmaceutical Products sub sectors. The formal employment in the sector increased by 6.7 per cent to 338.0 thousand in 2021 from 316.9 thousand in 2020. Overall annual inflation as measured by the Producer Price Index rose by 7.32 per cent to 109.55 in 2021.

Total credit advanced by both commercial banks and industrial financial institutions to the sector increased to KSh 464.0 billion in 2021 from KSh 410.3 billion in 2020. In the same period, total sales by EPZ enterprises increased by 21.5 per cent to KSh 98.7 billion in 2021. Exports by EPZ enterprises increased by 22.8 per cent to KSh 91.3 billion in 2021.

### **Construction Sector**

The Construction sector registered a growth of 6.6 per cent in 2021 compared to a growth of 10.1 per cent in 2020. Cement consumption rose from 7.4 million tonnes in 2020 to 9.1 million tonnes in 2021 representing an increase of 23.0 per cent. Loans and advances from commercial banks to the construction and real estate sectors grew by 0.9 per cent from KSh 526.5 billion in 2020 to KSh 531.3 billion in 2021. The number of completed public residential buildings constructed by the state Department for Housing were 431 units at an estimated cost of KSh 741.3 million. The total length of roads under bitumen rose by 2.3 per cent to 21.8 thousand kilometres as at June 2021, from 21.1 thousand kilometres in June 2020. The Government expenditure on roads is expected to increase by 6.1 per cent, from KSh 195.3 billion in 2020/21 to KSh 207.2 billion in 2021/22. Wage employment in the construction sector grew

by 2.2 per cent from 221.5 thousand persons in 2020 to 226.5 thousand persons in 2021.

### **Tourism Sector**

The tourism sector recovered significantly in 2021 despite COVID-19 pandemic. International visitor arrivals expanded by 50.3 per cent to 871.3 thousand during the review period. This was supported by reopening of Kenya's source markets, relaxation of travel restrictions and the rising rates of COVID-19 vaccination. Hotel bed-nights occupancy rose by 45.1 per cent to 5.5 million in 2021. Domestic tourism expanded notably with hotel bed-nights occupancy of Kenyan residents growing by 49.2 per cent to 3.8 million, accounting for 69.4 per cent of total bed nights occupancy in 2021.

The number of international conferences held increased from 28 in 2020 to 292 in 2021 while local conferences increased from 1,176 in 2020 to 8,117 in 2021. The number of visitors to national parks and game reserves increased by 50.0 per cent from 1.0 million in 2020 to 1.5 million in 2021. Similarly, the number of visitors to museums, snake parks and historical sites more than doubled to 403.7 thousand in 2021. The number of trainees pursuing hospitality and tourism courses at the Kenya Utalii College declined by 76.4 per cent from 729 in 2020 to 243 in 2021.

### **Transport and Storage**

The performance of the transportation and storage sector improved significantly in 2021 following the easing of restrictions that had been instituted by the Government to curb the spread of COVID-19 pandemic in 2020. The total value of output from the sector rose by 16.7 per cent to KSh 2,293.3 billion in 2021. The Road Transport sub-sector contributed 77.9 per cent of the total value of output within the sector, having risen from KSh 1,537.4 billion in 2020 to KSh 1,785.4 billion in 2021. Revenue from haulage on the Standard Gauge Railway (SGR) rose by 24.0 per cent to KSh 13.0 billion in 2021. Earnings from the Madaraka Express more than doubled to KSh 2.2 billion in 2021. Similarly, revenue earned from passenger services on the Metre Gauge Rail-

way (MGR) more than doubled to KSh 234 million in 2021. Revenue from cargo transported on the MGR rose marginally from KSh 1,114 million in 2020 to KSh 1,118 million in 2021. Cargo throughput at the Port of Mombasa increased by 1.2 per cent to 34.5 thousand MT in 2021. Container traffic increased from 1,359.6 thousand Twenty-foot Equivalent Units (TEUs) in 2020 to 1,435.3 thousand TEUs in 2021.

The volume of white petroleum transported through the pipeline recorded a 10.1 per cent increase to 7,447.1 thousand cubic metres in 2021. The volume of white petroleum products transited through the pipeline rose from 2,443.9 thousand cubic metres in 2020 to 2,960.8 thousand cubic metres in 2021. Pipeline throughput for domestic consumption increased by 3.9 per cent to 4,486.3 thousand cubic metres in 2021. Passenger traffic from all airports grew by 46.7 per cent during the review period. The number of domestic air passengers handled at Kenyan airports rose by 65.5 per cent to 3.8 million passengers while the number of international passengers handled increased by 28.9 per cent to 2.7 million in 2021. The number of newly registered motor vehicles rose by 14.2 per cent from 94,128 units in 2020 to 107,499 units in 2021. Similarly, the number of newly registered motorcycles and three wheelers increased by 15.4 per cent from 252,601 units in 2020 to 291,553 units in 2021.

### **Information and Communication Technology**

The value of ICT output increased by 6.9 per cent from KSh 529.8 billion in 2020 to KSh 566.3 billion in 2021. The penetration rate for mobile subscriptions grew to 131.88 per 100 inhabitants in 2021. Mobile money subscriptions increased to 71.34 per 100 inhabitants over the same period. Internet subscriptions increased from 91.70 per 100 inhabitants in 2020 to 93.33 per 100 inhabitants in 2021.

Total domestic telephone traffic increased from 60.3 billion minutes in 2020 to 80.0 billion minutes in 2021. Total international telephone traffic increased marginally from 1,024.4 million minutes in 2020 to 1,037.2 million minutes in 2021. Total mobile money transfers grew by 31.7 per cent to KSh 6.9 trillion in 2021. The value of mobile commerce transactions grew by 63.2

per cent to KSh 15.3 trillion in the same period. The growth is attributed to the Government requirement for the use of mobile money platforms in a bid to curb the spread of COVID-19 through the handling of cash during the review period. The number of domestic SMSs sent declined by 37.2 per cent to 42.7 billion while international SMS sent declined by 23.0 per cent to 28.0 million SMSs in 2021.

In 2021, 44.3 per cent of available bandwidth was utilised compared to 49.6 per cent in 2020. The total fixed and wireless internet subscriptions increased by 4.4 per cent to 46.4 million subscribers in 2021. Digital TV subscribers increased by 9.2 per cent to 6.0 million while digital distributors remained five in the period under review. Average online newspaper visitors per day increased by 11.4 per cent to 4.2 million in 2021.

### **Education and Training**

Total expenditure for the education sector is expected to reduce by 16.3 per cent to KSh 395.5 billion in 2021/22 financial year. Recurrent expenditure for the sector is expected to decrease by 16.7 per cent to KSh 380.6 billion in 2021/22, while Development expenditure for the sector is expected to reduce to KSh 15.0 billion in 2021/22. Total number of schools grew by 1.4 per cent from 88,506 in 2020 school year to 89,747 in 2021 school year. Number of registered pre-primary schools increased from 46,652 in 2020 to 46,671 in 2021. During the review period, the number of primary schools rose by 3.6 per cent to 32,594. The increase in number of schools was mainly attributed to registration of more schools and the reopening of some private schools which were closed during the COVID-19 pandemic. Number of public universities increased to 32 following award of a charter to National Defence University - Kenya.

Enrolment in pre-primary 1 and 2 increased marginally to 2,845.3 thousand in 2021 school year from 2,832.9 thousand in 2020 school year. Total enrolment in primary schools increased by 1.1 per cent to 10,285.1 thousand in 2021 school year. Total enrolment in secondary schools rose by 4.9 per cent to 3.7 million in 2021. Number of teachers in public primary schools increased by 1.2 per cent to 220,744 in 2021,

while number of teachers in public secondary schools and teacher training colleges increased by 6.3 per cent to 120,279 in 2021. Enrolment in Technical and Vocational Education and Training (TVET) institutions grew by 10.4 per cent to 498,326 in 2021, while university enrolment is expected to grow from 546.7 thousand in 2020/21 to 562.1 thousand in 2021/22 academic year. The amount of loans and bursaries awarded by Higher Education Loans Board (HELB) declined from KSh 15.4 billion in 2019/2020 to KSh 14.4 billion in 2020/2021. Government funding to universities through the Universities Fund is expected to increase from KSh 41.9 billion in 2020/21 to KSh 43.8 billion in 2021/22.

### **Health and Vital Statistics**

National Government expenditure on health services is expected to increase by 16.6 per cent to KSh 110.2 billion in 2021/22. The proportion of National Government expenditure on health to total National Government expenditure was 3.3 per cent in 2020/21. County Governments' expenditure on health services is expected to grow to KSh 116.5 billion in 2021/22. The National Hospital Insurance Fund (NHIF) membership increased by 6.6 per cent to 23.4 million with members' contributions growing by 2.1 per cent to KSh 60.8 billion in 2020/21

The number of health facilities decreased by 3.2 per cent to 14,137 while the number of hospital beds and cots increased to 100,183 in 2021. Deliveries in health facilities increased by 5.7 per cent to 1.2 million in 2021 with normal deliveries accounting for 82.4 per cent of total deliveries. There was an increase in the number of registered health professionals to 222,870 in 2021. The number of middle-level medical graduates at Kenya Medical Training College (KMTC) increased by more than three times from 4,114 in the 2019/20 academic year to 12,437 in the 2020/21 academic year. The total number of university undergraduate and postgraduate health science students increased by 4.3 per cent to 23,164 while the total number of medical graduates and post-graduates increased by more than two-fold to 3,399 in 2021.

The number of registered births increased from 1.1 million in 2020 to 1.2 million in 2021. Birth registration

coverage rate for 2021 was 86.0 per cent while the death registration coverage rate increased to 55.4 per cent in 2021.

### **Governance, Peace and Security**

During the review period, the total number of crimes reported to police increased by 16.7 per cent to 81,272. Similarly, the total number of child protection cases reported to the Department of Children Services increased from 146,881 in 2020 to 191,766 in 2021 while cases related to Violence Against Children (VAC) increased to 147,352 in 2021. In contrast, reported cases on child trafficking reduced from 2,523 in 2020 to 1,976 in 2021. A total of 13.1 tonnes of dangerous drugs were seized in 2021 compared to 10.9 tonnes in 2020.

In 2020/21, number of cases filed in courts increased by 5.5 per cent to 362,332, while cases disposed of increased from 293,996 in 2019/20 to 297,893 in 2020/21. Murder cases that were concluded with a conviction increased from 33 in 2020 to 486 in 2021.

The total prison population increased by 85.8 per cent from 86,119 in 2020 to 160,021 in 2021. Total number of offenders serving probation sentence increased from 4,730 in 2020 to 8,202 in 2021 while the total number of offenders under community service increased from 15,666 in 2020 to 25,640 in the review period.

The Ethics and Anti-Corruption Commission (EACC) traced public assets worth KSh 5.1 billion in 2020/21 compared to KSh 25.3 billion in 2019/20. During the same period, the Commission recovered public assets worth KSh 16.0 billion compared to KSh 12.1



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The number of passports issued increased by 24.8 per cent to 273,328 in 2021 while work permits issued and those renewed, increased by 25.3 and 5.1 per cent, respectively. Similarly, the number of applications made for National Identity Cards almost doubled from 648,573 in 2020 to 1,167,954 in 2021. The number of registered refugees and asylum seekers grew from 504,854 in 2020 to 540,068 in 2021 while that of registered persons with disabilities increased from 542,152 as at 30th June 2020 to 552,019 as at 30th June 2021.

### **Gender and Development**

National Government expenditure on social services is expected to decrease by 23.2 per cent from KSh 64.3 billion in 2020/21 to KSh 49.4 billion in 2021/22. Loan disbursements by the Women Enterprise Fund and the Uwezo Fund are expected to decrease by 4.6 per cent and 5.4 per cent to KSh 3.1 billion and KSh 0.6 billion, respectively, in 2021/22. Disbursement by the Youth Enterprise Development Fund is expected to increase by 25.7 per cent to KSh 730 million in 2021/22. Grants disbursed by the National Government Affirmative Action Fund are expected to increase by 19.4 per cent to KSh 1.1 billion in 2021/21. The total value of public procurement reserved for youth, women and Persons with Disabilities (PWD) groups is expected to increase by 25.0 per cent from KSh 65.3 billion in 2020/21 to KSh 81.6 billion in 2021/22.

The funds disbursed through Cash Transfers for Orphans and Vulnerable Children and Persons with Severe Disabilities Programs are expected to increase by 12.3 per cent and 46.0 per cent to KSh 7.9 billion and KSh 1.2 billion, respectively, in 2021/22.

Disbursement of funds for the Hunger and Safety Net Programme is also expected to increase by 28.8 per cent to KSh 4.4 billion in 2021/22. However, disbursement of funds to Older Persons is expected to decrease by 9.0 per cent to KSh 16.7 billion during the same period.

The number of newly registered employers under the National Social Security Fund (NSSF) decreased

from 82,261 in 2020 to 21,680 in 2021. Contributions and benefits paid by this scheme also dropped by 3.9 per cent and 23.0 per cent to KSh 14.2 billion and KSh 3.4 billion in 2021, respectively.

Total contributions towards retirement benefits schemes increased by 13.8 per cent to KSh 123.1 billion in 2021. Similarly, benefits paid out to members of pension schemes increased by 13.1 per cent to KSh 100.9 billion during the period under review.

The total number of servicewomen and servicemen

recruited by the National Youth Service declined by 6.8 per cent to 7,500 in 2021, with the number of servicewomen and servicemen being 5,595 and 1,905, respectively. Overall representation of Members of County Assemblies met the two-thirds gender rule in 2021, despite thirteen counties falling short of the constitutional requirement. Similarly, Judicial officers achieved the two-third gender rule during the review period. In contrast, the National Assembly and the Senate failed to achieve the two-thirds gender requirement.

## 2022 Economic Outlook

The country's macroeconomic environment is expected to remain stable despite the likelihood of a rise in inflation, weakening of the Kenyan Shilling against its major trading currencies and significant rise in energy prices. The electioneering period might slowdown economic activities with investors likely to incline to building savings rather than expanding businesses. However, the electioneering period is expected to be peaceful and therefore conducive for economic activities to thrive. During the first quarter of 2022, inflation rate eased but it is likely to rise in the second and third quarters of the year on account of rising energy prices as well as increase in prices of other commodity including that of food.

The agriculture sector, which contributes close to a quarter of the country's gross domestic product, is projected to underperform on account of poor weather patterns. So far, there was a failure of short rains in most parts of the country during the fourth quarter of 2021 which resulted in suppressed production of key crops in the first quarter of 2022. Moreover, was a delay in the onset of the long rains which is likely to hamper production in the second quarter of 2022. Subsequently, the performance of the sector is expected to be below par in 2022. On the brighter side, activities in the other sectors of the economy are likely to continue on a growth trajectory after the successful containment of the COVID-19 pandemic

and the expected peaceful general election given that Kenya is a mature democracy.

The global economy is projected to remain robust in 2022 as the world copes better with the COVID-19 pandemic. Against this backdrop, the world trade is expected to remain strong and therefore supportive of external demand for Kenyan's goods and services. Consequently, Kenya's export of horticultural product, minerals and other key output is expected to grow and therefore supportive of the respective productive sectors. In addition, the growth of tourist arrivals witnessed in 2021 is likely to continue in 2022 and therefore a boost to the accommodation and food services that has been seriously constrained by the impacts of the COVID-19 pandemic.



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**Table 0:**

|    | <b>DESCRIPTION</b>                            | <b>Unit</b>   | <b>2017</b>  | <b>2018</b>  | <b>2019</b>  | <b>2020*</b> | <b>2021</b>  |
|----|---|---------------|--------------|--------------|--------------|--------------|--------------|
| 1  | Population                                    | (Million)     | 45.3         | 46.4         | 47.6         | 48.5         | 49.4         |
| 2  | Growth of GDP at Constant Prices              | (Per cent )   | 3.8          | 5.6          | 5.1          | -0.3         | 7.5          |
| 3  | GDP at Market Prices :                        | (KSh Mn)      | 8,483,396.5  | 9,340,306.7  | 10,237,727.3 | 10,716,033.9 | 12,098,200.4 |
| 4  | Total value of petroleum products             | (KSh Mn)      | 265,253.6    | 327,777.6    | 316,603.4    | 209,132.3    | 348,307.0    |
| 5  | Trade balance                                 | (KSh Mn)      | -1,138,568.1 | -1,150,155.8 | -1,209,658.0 | -999,853.9   | -1,407,562.0 |
| 6  | Money Supply (M3)                             | (KSh Mn)      | 3,030,646.0  | 3,337,832.0  | 3,524,026.2  | 3,990,901.0  | 4,235,224.0  |
| 7  | Total domestic credit                         | (KSh Mn)      | 3,279,317.4  | 3,450,164.0  | 3,660,541.0  | 4,339,110.0  | 4,993,765.0  |
| 8  | Balance of Payments (current account balance) | (KSh Mn)      | -593,569.1   | -505,410.3   | -536,306.3   | -510,078.7   | -663,787.1   |
| 9  | Coffee-marketed production                    | ('000 tonnes) | 33.7         | 36.8         | 33.6         | 24.4         | 28.2         |
| 10 | Tea-marketed production                       | ('000 tonnes) | 439.9        | 493.0        | 458.9        | 569.5        | 537.8        |
| 11 | Fresh Horticultural Produce exports           | ('000 tonnes) | 304.1        | 322.6        | 328.3        | 313.6        | 405.5        |
| 12 | Maize-marketed production                     | ('000 tonnes) | 239.2        | 441.5        | 316.7        | 261.3        | 228.4        |
| 13 | Wheat-marketed production                     | ('000 tonnes) | 156.9        | 330.3        | 348.8        | 280.8        | 241.9        |
| 14 | Sugar-cane production                         | ('000 tonnes) | 4,751.6      | 5,262.2      | 4,606.1      | 6,810.9      | 7,783.3      |
| 15 | Milk sold centrally                           | (Mn litres)   | 591.4        | 652.3        | 685.9        | 684.4        | 801.9        |
| 16 | Manufacturing output                          | (KSh Mn)      | 2,109,602.2  | 2,216,546.9  | 2,311,586.1  | 2,373,278.4  | 2,685,544.6  |
| 17 | Construction output                           | (KSh Mn)      | 1,074,220.6  | 1,229,130.0  | 1,391,357.3  | 1,623,605.0  | 1,818,538.8  |
| 18 | Cement Consumption                            | ('000 tonnes) | 5,857.9      | 5,948.7      | 6,129.1      | 7,375.6      | 9,098.4      |
| 19 | Petroleum Consumption                         | ('000 tonnes) | 5,170.6      | 5,189.2      | 5,207.1      | 4,678.5      | 5,192.1      |
| 20 | Electricity consumption                       | (GWh)         | 8,410.1      | 8,702.3      | 8,854.0      | 8,796.4      | 9,565.4      |
| 21 | New registration of motor vehicles and cycles | (Number)      | 282,672      | 297,289      | 327,176      | 346,729      | 399,052      |
| 22 | Rail freight                                  | ('000 tonnes) | 1,146.5      | 3,544.0      | 4,826.0      | 5,063.0      | 6,051.0      |
| 23 | Air passengers handled                        | ('000) No.    | 10,118.2     | 11,721.7     | 12,011.0     | 4,450.1      | 6,585.2      |
| 24 | Mobile Subscriptions                          | ('000) No.    | 42,815.1     | 49,501.5     | 54,556.0     | 61,409.0     | 65,085.0     |
| 25 | Total mobile money transfer                   | KSh Brn       | 3,638.0      | 3,984.0      | 4,346.0      | 5,214.0      | 6,869.0      |
| 26 | Wage employment                               | ('000) No.    | 2,792.6      | 2,859.8      | 2,928.4      | 2,742.6      | 2,907.3      |
| 27 | Education-primary enrolment                   | ('000) No.    | 10,403.7     | 10,542.5     | 10,072.0     | 10,170.1     | 10,285.1     |

|               | <b>DESCRIPTION</b>   | <b>Unit</b> | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>2020*</b> | <b>2021</b>                      |       |
|---------------|--|-------------|-------------|-------------|-------------|--------------|----------------------------------|-------|
| 28            | Education-secondary enrolment                                      | ('000) No.  | 2,830.8     | 2,942.7     | 3,260.0     | 3,520.4      | 3,692.0                          |       |
| 29            | Education-University enrolment                                     | ('000) No.  | 522.1       | 519.5       | 509.5       | 546.7        | 562.1                            |       |
| 30            | Education-other post secondary enrolment (TIVET+TTC)               | ('000) No.  | 309.5       | 402.2       | 462.3       | 469.1        | 514.8                            |       |
| 31            | Registered doctors and dentists                                    | (Number)    | 12,133      | 12,904      | 13,378      | 14,136       | 14,772.0                         |       |
| 32            | GDP Per capita (Current):  | (KSh)       | 187,271.4   | 201,299.7   | 215,078.3   | 220,132.2    | 245,145.3                        |       |
| 33            | GDP Per capita (Constant):   | (KSh)       | 174,035.7   | 179,474.2   | 183,969.5   | 179,438.0    | 190,303.3                        |       |
| 34            | Recurrent Revenue and Grants                                       | (KSh Mn)    | 1,549,875.8 | 1,733,668.8 | 1,815,796.6 | 1,815,098.4  | 2,100,679.9                      |       |
| 35            | Total National Government Expenditure <sup>1</sup>                 | (KSh Mn)    | 2,282,995.6 | 2,573,286.8 | 2,999,607.4 | 3,291,828.4  | 3,373,823.0                      |       |
| 36            | Net lending/borrowing (% of GDP) at Current Market Prices          | (Per cent ) | -7.4        | -6.9        | -5.6        | -6.8         | -4.0                             |       |
| 37            | External Debt Service Charge as % of GDP at Current Market Prices. | (Per cent ) | 1.2         | 2.4         | 2.2         | 2.2          | 2.7                              |       |
| 38            | External Debt Service as % of Exports of Goods & Services          | (Per cent ) | 9.9         | 20.0        | 19.1        | 22.7         | 25.7                             |       |
| INDEX NUMBERS |  |             |             |             |             |              | 2017-2021 Anual % rate of change |       |
| 39            | Export volumes: (2009=100)   |             | 109.2       | 110.9       | 110.8       | 122.5        | 130.1                            | 4.5   |
| 40            | Import volumes: (2009=100)   |             | 109.9       | 100.6       | 107.1       | 109.3        | 126.6                            | 3.6   |
| 41            | Terms of trade   |             | 75.5        | 68.0        | 68.0        | 74.9         | 73.3                             | -0.7  |
| 42            | NSE 20 Share: (1966=100)   |             | 3,172       | 2,834       | 2,654       | 1,868        | 1903                             | -12.0 |
| 43            | Consumer Price Index: (Feb 2019=100)                               |             | 93.6        | 98.0        | 103.2       | 108.7        | 115.3                            | 5.4   |
| 44            | Real wages: (June 2009=100)  |             | 91.4        | 94.1        | 96.6        | 94.2         | 90.6                             | -0.2  |
| 45            | Agriculture terms of trade: (2001 =100)                            |             | 49.9        | 47.5        | 44.6        | 48.4         | 42.5                             | -3.9  |
| 46            | Producer Price Index: (Mar 2019=100)                               |             | 99.8        | 100.6       | 101.8       | 102.1        | 109.6                            | 2.4   |

\* Provisional.

<sup>1</sup> The expenditures include disposal of non financial asset and disposal of financial assets (Expenditure is captured in Financial Year)

S E C T I O N

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International Scene





# International Scene

## Overview

World real GDP recorded an accelerated growth of 5.9 per cent in 2021 compared to a contraction of 3.1 per cent in 2020. The growth was supported by relaxation of measures put in place to control the spread of COVID-19. This resulted in an improvement in global trade as well as increased activity in the industrial and services sectors of most economies. The accelerated growth was witnessed across advanced economies as well as in Emerging Markets and Developing Economies (EMDEs). Advanced economies and EMDEs are estimated to have expanded by 5.0 per cent and 6.5 per cent, respectively, in 2021 compared to a contraction of 4.5 per cent and 2.0 per cent, respectively, in 2020. The recovery in advanced economies was mostly driven by the rollout of COVID-19 vaccines and reduction in mobility restrictions. In the EMDEs, the rebound was underpinned by increased domestic demand and policy support, coupled with the International Monetary Fund's (IMF) boost of general reserve assets of the countries in the bloc. The Sub-Saharan Africa economy grew by 3.7 per cent in 2021 compared to a contraction of 1.7 per cent in 2020. The growth was buoyed by high commodity prices and increased agricultural production attributed to favourable weather conditions. The recovery in Sub-Saharan Africa was, however, slowed by delayed rollout and low vaccine uptake in 2021 which hindered full reopening of the economy. East African Community (EAC) real GDP grew by 4.9 per cent in the period under review compared to a growth of 1.0 per cent in 2020. The accelerated growth was supported by favourable weather conditions in most of the countries coupled with partial lifting of COVID-19 restrictions in Kenya and Rwanda.

**1.2.** World inflation rose from 3.2 per cent in 2020 to 4.3 per cent in 2021. The surge in inflation was attributed to high agricultural and energy prices as well as supply chain disruptions. High oil demand resulted in an increase in the price per barrel of Murban Adnoc crude oil from USD 41.29 in 2020 to USD 65.68 in 2021. In advanced economies, inflation rose from 0.7 per cent in 2020 to 2.8 per cent in 2021, while that of EMDEs rose from 5.4 per cent in 2020 to 8.4 per cent in 2021. Inflation in Sub-Saharan Africa increased from 10.3 per cent in 2020 to 10.7 per cent in 2021.

**1.3.** Global trade volume increased by 9.3 per cent in 2021 compared to a contraction of 8.2 per cent in 2020, reflecting increased demand. Further, increase in cross border service activities especially tourism and other service sectors supported the growth in global trade.

**1.4.** There was a modest increase in global employment levels in 2021 due to reopening of businesses and increased number of working hours, following relaxation of COVID-19 restrictions. Unemployment rate improved from 6.6 per cent in 2020 to 6.2 per cent in 2021, while labour force participation increased from 58.6 per cent in 2020 to 59.0 per cent in 2021.

## Regional Economic Analysis

### Organization for Economic Co-operation and Development (OECD)

**1.5.** Table 1.1 presents macroeconomic performance of selected economies in the Organization for Economic Co-operation and Development (OECD) bloc. The OECD bloc recorded a growth of 5.3 per cent in 2021 compared to a contraction of 4.7 per cent in 2020. The accelerated growth was attributed to improved global demand due to reopening of international borders during the review period.

**1.6.** Overall inflation rose from 1.5 per cent in 2020 to 3.5 per cent in 2021, mainly due to increased energy and food prices, and supply shortages. Unemployment rate in the OECD eased to 6.2 per cent in 2021 from 7.1 per cent reported in 2020, as a result of increased employment by reopening businesses.

### Euro Area

**1.7.** Real GDP in the Euro Area expanded by 5.2 per cent in 2021 compared to a contraction of 6.5 per cent in 2020. The growth was driven by lifting of COVID-19 containment measures that resulted in increased private consumption and investment. Private consumption was boosted by strong demand and a rise in labour compensation. Inflation increased to 2.4 per cent in 2021 from 0.3 per cent in 2020, mainly attributed to an increase in energy prices and supply

chain disruptions. Unemployment rate declined to 7.7 per cent in 2021 from 7.9 per cent in 2020 as a result of reopening of businesses that were closed in 2020. Current account balance as a percentage of GDP widened from a surplus of 2.7 per cent in 2020 to a 3.4 per cent surplus in 2021, due to a relatively strong export demand in the review period.

### United States of America

**1.8.** The USA economy grew by 5.6 per cent in 2021 compared to a contraction of 3.4 per cent in 2020. The expansion was mostly attributed to strong consumption growth and easing of supply disruption following relaxation of restriction measures put in place to curb the spread of COVID-19. Inflation surged to 3.9 per cent in 2021 from 1.2 per cent in 2020, mainly due to high energy prices, and increased housing and shipping rates. Unemployment rate declined to 5.4 per cent during the review period, down from 8.1 per cent in 2020. The decline in unemployment was attributed to increased labour participation in sectors adversely affected by the pandemic such as leisure and hospitality and transport and storage. The current account balance as a percentage of GDP widened from a deficit of 2.9 per cent in 2020 to a 3.6 per cent deficit in 2021. This was mainly as a result of reduced surplus in primary income coupled with increased imports arising from strong demand.

### United Kingdom

**1.9.** The United Kingdom economy expanded by 6.9 per cent in 2021 compared to a contraction of 9.7 per cent in 2020 supported by strong private consumption. Inflation rose to 2.4 per cent in 2021 from 0.9 per cent in 2020, mainly due to increased energy prices, and supply and labour shortages. The shortages were attributed to imposition of trade and immigration restrictions following the exit of UK from EU single market. Current account balance as a percentage of GDP widened from a deficit of 2.6 per cent in 2020 to a deficit of 2.8 per cent in 2021.

### Japan

**1.10.** Japan's economy expanded by 1.8 per cent in 2021 compared to a contraction of 4.6 per cent in 2020. The growth was supported by strong con-

sumption patterns coupled with reopening of the economy. However, the slowed growth was exacerbated by the reintroduction and expansion of the fourth state of emergency between July and September 2021. Current account balance as a percentage of GDP increased from a surplus of 2.9 per cent in 2020 to a surplus of 3.2 per cent in 2021 due to a steady increase in exports. Unemployment rate remained at 2.8 per cent in 2021.

### Germany

**1.11.** Germany's economy grew by 2.9 per cent in 2021 compared to a contraction of 4.9 per cent

in 2020. The recovery was mainly bolstered by increased household consumption. Nevertheless, the recovery was held back by shortage of manufacturing inputs especially that of semiconductors that affected car production. Inflation rose from 0.4 per cent in 2020 to 3.1 per cent in 2021, due to increased energy prices, supply disruptions and end of Value Added Tax relief put in place to mitigate the effects of COVID-19. Unemployment rate improved to 3.6 per cent in the review period from 3.9 per cent in 2020, mainly due to reopening of businesses. Current account balance as a percentage of GDP remained at a surplus of 6.8 per cent in 2021.

**Table 1.1: Key Economic Indicators for Selected OECD Countries, 2019-2022**

|  | 2019       | 2020+      | 2021*      | 2022 <sup>†</sup> |
|--|------------|------------|------------|-------------------|
| <b>World Real GDP Growth</b>               | 2.8        | -3.1       | 5.9        | 4.4               |
| <b>World Inflation</b>                     | 3.5        | 3.2        | 4.3        | 3.8               |
| <b>World Trade Growth<sup>2</sup></b>      | 0.9        | -8.2       | 9.3        | 6.0               |
| <b>Real GDP Growth</b>                     |            |            |            |                   |
| United States of America.                  | 2.3        | -3.4       | 5.6        | 3.7               |
| United Kingdom                             | 1.7        | -9.7       | 6.9        | 4.8               |
| Japan                                      | 0.0        | -4.6       | 1.8        | 3.4               |
| Germany                                    | 1.1        | -4.9       | 2.9        | 4.1               |
| Euro Area                                  | 1.6        | -6.5       | 5.2        | 4.3               |
| Total OECD                                 | 1.8        | -4.7       | 5.3        | 3.9               |
| <b>Inflation</b>                           |            |            |            |                   |
| United States of America                   | 1.5        | 1.2        | 3.9        | 4.4               |
| United Kingdom                             | 1.8        | 0.9        | 2.4        | 4.4               |
| Japan                                      | 0.5        | 0.0        | 0.0        | 0.8               |
| Germany                                    | 1.4        | 0.4        | 3.1        | 2.8               |
| Euro Area                                  | 1.2        | 0.3        | 2.4        | 2.7               |
| Total OECD                                 | 2.0        | 1.5        | 3.5        | 4.2               |
| <b>Current Account Balance as % of GDP</b> |            |            |            |                   |
| United States of America.                  | -2.2       | -2.9       | -3.6       | -3.8              |
| United Kingdom                             | -2.7       | -2.6       | -2.8       | -3.5              |
| Japan                                      | 3.4        | 2.9        | 3.2        | 2.6               |
| Germany                                    | 7.6        | 6.8        | 6.8        | 6.1               |
| Euro Area                                  | 3.0        | 2.7        | 3.4        | 3.1               |
| Total OECD                                 | 0.3        | 0.0        | 0.1        | -0.3              |
| <b>Unemployment Rate</b>                   |            |            |            |                   |
| United States of America                   | 3.7        | 8.1        | 5.4        | 3.8               |
| United Kingdom                             | 3.8        | 4.5        | 4.5        | 4.3               |
| Japan                                      | 2.3        | 2.8        | 2.8        | 2.6               |
| Germany                                    | 3.2        | 3.9        | 3.6        | 3.2               |
| Euro Area                                  | 7.6        | 7.9        | 7.7        | 7.2               |
| <b>Total OECD</b>                          | <b>5.4</b> | <b>7.1</b> | <b>6.2</b> | <b>5.5</b>        |

Source: OECD Economic Outlook No.110, IMF World Economic Outlook datasets (January 2022)

\* Provisional

<sup>†</sup>Revised

<sup>‡</sup>Projections

<sup>2</sup>Refer to arithmetic average of world merchandise import and export volumes.

Assumptions Underlying Projections

The cut-off date for information used in the projection is November 2021.

The projections assume unchanged exchange rates from those prevailing on 18th October 2021.

## Brazil, Russia, India, Indonesia, China and South Africa

**1.12.** The emerging economies of Brazil, Russia, India, Indonesia, China and South Africa (BRIICS) recorded an average growth of 5.9 per cent in 2021 compared to a contraction of 3.5 per cent in 2020. The growth was mainly supported by strong consumer demand and increased investment, as the COVID-19 restrictions eased. Inflation rose from 3.4 per cent in 2020 to 4.5 per cent in the review period, mainly due to high commodity prices and supply chain disruptions. Current account balance as a percentage of GDP for the bloc widened from a surplus of 0.9 per cent in 2020 to a 2.0 per cent surplus in 2021.

**1.13.** The Indian economy expanded by 9.4 per cent in 2021 compared to a contraction of 7.3 per cent in 2020. The rebound was supported by increased exports of motor vehicles, strong consumer demand and fiscal measures. Inflation rose from 6.2 per cent in 2020 to 6.4 per cent in 2021, mainly due to increased commodity prices and supply chain disruptions. The current account balance as a percentage of GDP worsened from a surplus of 0.9 per cent in 2020 to a deficit of 0.6 per cent in 2021, mainly due to the increased price of crude oil.

**1.14.** China reported an accelerated growth of 8.1 per cent in 2021 compared to a 2.3 per cent growth recorded in 2020. The growth was supported by robust investment and consumption, manufacturing and exports. Inflation eased from 2.5 per cent in 2020 to 0.8 per cent in 2021, partly due to a limited shift in the prices of imported raw materials. Current account balance as a percentage of GDP narrowed from a surplus of 1.9 per cent in 2020 to a 1.7 per cent surplus in 2021.

**1.15.** South African economy grew by 5.2 per cent in 2021 compared to a contraction of 6.4 per cent in 2020. The recovery was supported by increased exports and household consumption driven by government support through social transfers. However, the recovery was curtailed by social unrest in July 2021. Inflation rose to 4.4 per cent in 2021 from 3.3 per cent in 2020. Current account balance as a

percentage of GDP improved from a surplus of 2.0 per cent in 2020 to 4.9 per cent in 2021.

## Sub-Saharan Africa (SSA)

**1.16.** Sub-Saharan Africa's real GDP is estimated to have grown by 3.7 per cent in 2021 compared to a contraction of 1.7 per cent in 2020, driven by high commodity prices, international tourist arrivals, and increased agricultural production. However, the recovery was slower compared to the global growth, attributed to the onset of the second and third waves of COVID-19 infections between January and July 2021, and low oil production in oil-producing countries. Inflation in the bloc rose from 10.3 per cent in 2020 to 10.7 per cent in 2021, due to a rise in energy and food prices. Current account balance as a percentage of GDP narrowed to a deficit of 2.2 per cent in 2021 from 3.0 per cent recorded in 2020. The narrowing of the deficit was mainly due to more favourable terms of trade and continued growth of remittances.

**1.17.** The recovery was also curtailed by lackluster performance registered by the three major economies in the region (Nigeria, South Africa and Angola). Nigeria's economy expanded by 2.6 per cent in 2021 compared to a contraction of 1.8 per cent in 2020, mostly supported by non-oil sectors. Growth was constrained by low oil production attributed to work disruption at the oil fields coupled with decline in extractive investments. The economy of Angola contracted by 0.7 per cent in 2021 compared to 5.4 per cent contraction in 2020, mainly due to low oil production as a result of ageing oil fields.

## East African Community (EAC)

**1.18.** East African Community's (EAC) real GDP is estimated to have expanded by 4.9 per cent in the period under review compared to a growth of 1.0 per cent recorded in 2020. The accelerated growth was supported by favourable weather conditions in most of the countries in the region which resulted in bumper cereal output. Inflation remained more or less the same in 2021 due to stable food inflation. Current account balance widened to a 5.7 per cent deficit in 2021 from a deficit of 5.0 per cent recorded in 2020 largely due to sluggish recovery of exports

and remittances that suppressed foreign exchange receipts.

**1.19.** Tanzania's real GDP grew by 4.0 per cent in 2021 compared to a 4.8 per cent growth in 2020. Rwanda's economy grew by 5.1 per cent in 2021 compared to a 3.4 per cent contraction recorded in 2020. Uganda's economy rebounded from a contraction of 0.8 per cent in 2020 to a growth of 4.7 per cent in 2021, largely supported by increased household demand and an increase in exports. Uganda's current account balance as a percentage of GDP narrowed to an 8.9 per cent deficit in 2021 from a deficit of 9.6 per cent recorded in 2020. Inflation in Uganda stood at 2.2 per cent during the review period compared to 2.8 per cent in 2020.

### **Southern African Development Community**

**1.20.** Southern African Development Community (SADC) is estimated to have grown by 3.9 per cent in 2021 compared to a contraction of 4.3 per cent in 2020. The rebound was mainly attributed to strengthened domestic demand as the COVID-19 pandemic receded and commodity prices rose due to the global reopening of economies. Inflation eased to 9.3 per cent in 2021 from 11.0 per cent recorded in 2020 due to accommodative monetary policies. The current account balance as a percentage of GDP improved to a surplus of 0.7 per cent in 2021 compared to a deficit of 0.1 per cent in 2020, mainly due to increased exports, especially gold and agricultural products.

### **West African Economic and Monetary Union**

**1.21.** Real GDP of West African Economic and Monetary Union (WAEMU) was estimated to have expanded by 5.5 per cent in 2021 compared to a growth of 1.8 per cent in 2020. The growth was mainly attributed to the recovery of the service sector coupled with an increase in public investment.

Current account balance as a percentage of GDP widened from a deficit of 4.6 per cent in 2020 to a 6.1 per cent deficit in 2021. Inflation rose to 2.9 per cent in the review period compared to 2.2 per cent recorded in 2020, reflecting an increase in food and transport prices. Côte d'Ivoire, the largest economy in the region, reported real GDP growth of 6.0 per cent in 2021 compared to a growth of 2.0 per cent in 2020. The growth was supported by an increase in agricultural production, petroleum products, public investment and improved domestic demand.

### **Economic and Monetary Union of Central Africa**

**1.22.** Real GDP of the Economic and Monetary Union of Central Africa (CEMAC) was estimated to have grown by 2.6 per cent during the review period compared to a contraction of 2.5 per cent in 2020, mainly due to the recovery in global trade. Current account balance as a percentage of GDP narrowed to a deficit of 1.7 per cent in 2021 compared to a 4.6 per cent deficit in 2020, largely attributed to an increase in exports of non-energy commodities. Inflation eased to 2.1 per cent in the review period compared to 2.7 per cent reported in 2020, which is below the 3.0 per cent set regional standard.



**Real GDP of the Economic and Monetary Union of Central Africa (CEMAC) was estimated to have grown by 2.6 per cent during the review period compared to a contraction of 2.5 per cent in 2020, mainly due to the recovery in global trade**

**Table 1.2: Real GDP Growth, Inflation and Current Account Balances for Selected Regions and Countries, 2019-2022**

|                            | Real GDP Growth Rates |             |             |                   | Inflation   |             |             |                   | Current Account Balance<br>(Per cent of GDP) |             |             |                   |
|----------------------------|-----------------------|-------------|-------------|-------------------|-------------|-------------|-------------|-------------------|--|-------------|-------------|-------------------|
|                            | 2019                  | 2020+       | 2021*       | 2022 <sup>1</sup> | 2019        | 2020+       | 2021*       | 2022 <sup>1</sup> | 2019   | 2020+       | 2021*       | 2022 <sup>1</sup> |
| <b>BRIICS</b>              | <b>3.1</b>            | <b>-3.5</b> | <b>5.9</b>  | <b>4.1</b>        | <b>3.8</b>  | <b>3.4</b>  | <b>4.5</b>  | <b>4.0</b>        | <b>-0.8</b>                                  | <b>0.9</b>  | <b>2.0</b>  | <b>1.6</b>        |
| Brazil                     | 1.4                   | -4.4        | 5.0         | 1.4               | 3.7         | 3.2         | 7.8         | 5.1               | -3.5   | -1.7        | -0.5        | -0.8              |
| Russia                     | 2.0                   | -3.0        | 4.3         | 2.7               | 4.5         | 3.4         | 5.9         | 4.8               | 4.0  | 2.4         | 6.1         | 7.8               |
| India                      | 4.0                   | -7.3        | 9.4         | 8.1               | 4.8         | 6.2         | 6.4         | 4.8               | -0.8   | 0.9         | -0.6        | -1.6              |
| Indonesia                  | 5.0                   | -2.1        | 3.3         | 5.2               | 3.0         | 1.9         | 1.7         | 2.8               | -2.7   | -0.4        | 0.4         | 1.2               |
| China                      | 6.0                   | 2.3         | 8.1         | 5.1               | 2.9         | 2.5         | 0.8         | 1.7               | 0.7  | 1.9         | 1.7         | 1.5               |
| South Africa               | 0.1                   | -6.4        | 5.2         | 1.9               | 4.1         | 3.3         | 4.4         | 4.8               | -2.6   | 2.0         | 4.9         | 1.2               |
| <b>Sub-Saharan Africa</b>  | <b>3.1</b>            | <b>-1.7</b> | <b>3.7</b>  | <b>3.8</b>        | <b>8.2</b>  | <b>10.3</b> | <b>10.7</b> | <b>8.6</b>        | <b>-3.4</b>                                  | <b>-3.0</b> | <b>-2.2</b> | <b>-2.7</b>       |
| <b>EAC-5</b>               | <b>6.3</b>            | <b>1.0</b>  | <b>4.9</b>  | <b>5.6</b>        | <b>3.9</b>  | <b>4.3</b>  | <b>4.2</b>  | <b>4.5</b>        | <b>-5.2</b>                                  | <b>-5.0</b> | <b>-5.7</b> | <b>-5.6</b>       |
| Kenya                      | 5.1                   | -0.3        | 7.5         | 6.0               | 5.3         | 5.4         | 6.1         | 5.0               | -5.3   | -4.8        | -5.5        | -5.1              |
| Tanzania                   | 7.0                   | 4.8         | 4.0         | 5.1               | 3.4         | 3.3         | 3.2         | 3.4               | -2.5   | -1.8        | -3.2        | -3.8              |
| Uganda                     | 7.7                   | -0.8        | 4.7         | 5.1               | 2.3         | 2.8         | 2.2         | 5.0               | -6.4   | -9.6        | -8.9        | -7.3              |
| Rwanda                     | 9.5                   | -3.4        | 5.1         | 7.0               | 2.4         | 7.7         | 2.4         | 4.9               | -12.1  | -12.2       | -13.4       | -12.2             |
| Burundi                    | 1.8                   | -1.0        | 1.6         | 4.2               | -0.7        | 7.3         | 5.6         | 4.6               | -11.6  | -10.4       | -15.4       | -14.4             |
| <b>SADC</b>                | <b>1.3</b>            | <b>-4.3</b> | <b>3.9</b>  | <b>3.0</b>        | <b>8.7</b>  | <b>11.0</b> | <b>9.3</b>  | <b>7.0</b>        | <b>-2.0</b>                                  | <b>-0.1</b> | <b>0.7</b>  | <b>-1.0</b>       |
| <b>WAEMU</b>               | <b>5.7</b>            | <b>1.8</b>  | <b>5.5</b>  | <b>6.1</b>        | <b>-0.6</b> | <b>2.2</b>  | <b>2.9</b>  | <b>2.3</b>        | <b>-4.9</b>                                  | <b>-4.6</b> | <b>-6.1</b> | <b>-6.1</b>       |
| <b>CEMAC</b>               | <b>2.0</b>            | <b>-2.5</b> | <b>2.6</b>  | <b>2.8</b>        | <b>1.8</b>  | <b>2.7</b>  | <b>2.1</b>  | <b>2.3</b>        | <b>-3.3</b>                                  | <b>-4.6</b> | <b>-1.7</b> | <b>-1.9</b>       |
| <b>ASEAN-5</b>             | <b>4.9</b>            | <b>-3.4</b> | <b>2.9</b>  | <b>5.8</b>        | <b>2.1</b>  | <b>1.4</b>  | <b>2.0</b>  | <b>2.4</b>        | <b>1.1</b>                                   | <b>2.0</b>  | <b>0.6</b>  | <b>0.7</b>        |
| Indonesia                  | 5.0                   | -2.1        | 3.3         | 5.2               | 3.0         | 1.9         | 1.7         | 2.8               | -2.7   | -0.4        | 0.4         | 1.2               |
| Malaysia                   | 4.4                   | -5.6        | 3.5         | 6.0               | 0.7         | -1.1        | 2.5         | 2.0               | 3.5  | 4.2         | 3.8         | 3.7               |
| Philippines                | 6.1                   | -9.6        | 3.2         | 6.3               | 2.5         | 2.6         | 4.3         | 3.0               | -0.8   | 3.6         | 0.4         | -1.8              |
| Thailand                   | 2.3                   | -6.1        | 1.0         | 4.5               | 0.7         | -0.8        | 0.9         | 1.3               | 7.0  | 3.5         | -0.5        | 2.1               |
| Vietnam                    | 7.0                   | 2.9         | 3.8         | 6.6               | 2.8         | 3.2         | 2.0         | 2.3               | 3.8  | 3.7         | 1.8         | 3.2               |
| <b>Maghreb</b>             | <b>2.1</b>            | <b>-7.9</b> | <b>14.0</b> | <b>2.8</b>        | <b>2.3</b>  | <b>2.3</b>  | <b>6.0</b>  | <b>5.6</b>        | <b>-7.0</b>                                  | <b>-7.9</b> | <b>-4.0</b> | <b>-3.6</b>       |
| Algeria                    | 0.8                   | -4.9        | 3.4         | 1.9               | 2.0         | 2.4         | 6.5         | 7.6               | -9.9   | -12.7       | -7.6        | -5.5              |
| Libya                      | 13.2                  | -59.7       | 123.2       | 5.3               | 0.2         | 2.8         | 21.1        | 8.0               | 1.1  | -12.2       | 19.2        | 15.4              |
| Mauritania                 | 5.8                   | -1.8        | 2.7         | 5.0               | 2.3         | 2.3         | 2.7         | 3.8               | -10.5  | -7.6        | -7.1        | -8.9              |
| Morocco                    | 2.6                   | -6.3        | 5.7         | 3.1               | 0.2         | 0.6         | 1.4         | 1.2               | -3.7   | -1.5        | -3.1        | -3.3              |
| Tunisia                    | 1.0                   | -8.6        | 3.0         | 3.3               | 6.7         | 5.6         | 5.7         | 6.5               | -8.4   | -6.8        | -7.3        | -8.4              |
| <b>Mashreq<sup>2</sup></b> | <b>4.3</b>            | <b>1.4</b>  | <b>2.7</b>  | <b>4.7</b>        | <b>11.8</b> | <b>8.3</b>  | <b>8.0</b>  | <b>7.8</b>        | <b>-6.8</b>                                  | <b>-4.3</b> | <b>-4.9</b> | <b>-3.9</b>       |
| Egypt                      | 5.6                   | 3.6         | 3.3         | 5.2               | 13.9        | 5.7         | 4.5         | 6.3               | -3.6   | -3.1        | -3.9        | -3.7              |
| Jordan                     | 2.0                   | -1.6        | 2.0         | 2.7               | 0.7         | 0.4         | 1.6         | 2.0               | -2.1   | -8.0        | -8.9        | -4.4              |
| Lebanon                    | -6.9                  | -25.0       | ..          | ..                | 2.9         | 84.9        | ..          | ..                | -27.4  | -17.8       | ..          | ..                |

Source: OECD Economic Outlook, December 2021 and Regional Economic Outlook October 2021 - Various Issues except Kenya whose accounts are shown

\* Provisional

+ Revised

.. Data not available

<sup>1</sup> Projections

<sup>2</sup> Excludes Syria due to unavailability of data

Southern African Development Community(SADC) includes; Angola, Botswana , Democratic Republic of Congo, Lesotho, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles, South Africa, Eswatini, United Republic of Tanzania, Zambia and Zimbabwe.

West African Economic and Monetary Union (WAEMU) includes: Benin, Burkina Faso, Côte d'Ivoire, Guinea Bissau, Mali, Niger, Senegal, and Togo.

Economic and Monetary Union of Central Africa (CEMAC) includes: Cameroon, Chad, Central African Republic, Equatorial Guinea, Gabon, and Republic of Congo

### **Association of South Eastern Asia Nations**

**1.23.** Real GDP in the Association of South Eastern Asia Nations (ASEAN-5) is estimated to have grown by 2.9 per cent in 2021 compared to a 3.4 per cent contraction in 2020, mainly supported by increased household spending and continued foreign demand. Inflation rose from 1.4 per cent in 2020 to 2.0 per cent in 2021. Current account balance as a percentage of GDP narrowed from a surplus of 2.0 per cent in 2020 to a 0.6 per cent surplus in 2021. In the period under review, all member countries registered positive growths with Vietnam recording the highest growth of 3.8 per cent followed by Indonesia with a growth of 3.3 per cent. Thailand registered the slowest growth of 1.0 per cent in the same period.

### **Maghreb**

**1.24.** Real GDP growth of the Maghreb was estimated to have expanded by 14.0 per cent in 2021 compared to a 7.9 per cent contraction in 2020. The rebound was mainly attributed to the restoration of the global demand, in particular, exports of automotive parts and phosphate coupled with the resumption of oil production. Inflation rose from 2.3 per cent in 2020 to 6.0 per cent in the period under review, largely due to persistent supply disruptions. Current account balance as a percentage of GDP narrowed from a deficit of 7.9 per cent in 2020 to a 4.0 per cent deficit in 2021, due to the increases in oil revenues and exports. Tunisia's economy registered a growth of 3.0 per cent in 2021 compared to a contraction of 8.6 per cent recorded in 2020. The rebound was due to the receding of the COVID-19 pandemic which allowed a resumption of the global economy, especially in Europe, upon which Tunisia relies heavily. Mauritania recorded real GDP growth of 2.7 per cent in 2021 compared to a 1.8 per cent contraction in



**Real GDP of the Economic and Monetary Union of Central Africa (CEMAC) was estimated to have grown by 2.6 per cent during the review period compared to a contraction of 2.5 per cent in 2020, mainly due to the recovery in global trade**

2020. The growth was supported by the revival of the global demand for iron, which is Mauritania's main driver of growth. The political and security situation in Libya remained fragile and affected the region's economy in the review period. However, due to the resumption of oil production, the economy grew by 123.2 per cent in 2021 compared to a contraction of 59.7 per cent recorded in 2020. Current account balance as a percentage of GDP for the region narrowed to a deficit of 4.0 per cent in 2021 compared to a 7.9 per cent deficit in 2020.

### **Mashreq**

**1.25.** During the period under review, the real GDP growth of Mashreq bloc expanded by 2.7 per cent compared to 1.4 per cent growth in 2020. In Egypt, the real GDP registered a decelerated growth of 3.3 per cent in 2021 compared to a 3.6 per cent growth recorded in 2020. The decelerated growth was due to suppressed activities in tourism which is a major economic driver in the country. In the period under review, Iraq and Saudi Arabia reported real GDP growths of 3.6 and 2.8 per cent, respectively. Current account balance as a percentage of GDP for the bloc widened to a deficit of 4.9 per cent in 2021 from a 4.3 per cent deficit in 2020. Inflation eased slightly to 8.0 per cent in 2021 from 8.3 per cent recorded in 2020.

### **Outlook**

**1.26.** The global economy is projected to grow at 4.4 per cent in 2022 with the world expected to cope better with the COVID-19 pandemic. The GDP for advanced economies is expected to return to the pre-pandemic output path with a projection of 3.9 per cent in 2022, mainly due to withdrawal of fiscal policy support put in place during the onset of the pandemic. The real GDP for USA economy is projected to grow by 3.7 per cent in 2022, mainly owing to easing of supply chain disruptions and strong consumption growth.

**1.27.** Delivery and administration of COVID-19 vaccines in Emerging Markets and Developing Economies (EMDEs) is expected to improve steadily in 2022, thus improving the region's economic prospects. The real GDP of EMDEs is projected to grow by 4.8 per cent in 2022. China's economy is expected

to slow to 5.1 per cent in 2022, due to tighter regulation on certain sectors of the economy and reduced export support. Prospects for India are expected to be much stronger in this group with the economy projected to grow by 8.1 per cent in 2022, supported by the increasing pace of vaccination and inflation slowdown, boosting consumers' sentiments and protecting purchasing power.

**1.28.** The real GDP for BRIICS is expected to grow by 4.1 per cent in 2022. Brazil's real GDP is likely to slow to 1.4 per cent due to weak investor confidence and private consumption. The real GDP for Indonesia is projected at 5.2 per cent in 2022 supported by strong domestic demand and higher commodity prices. Real GDP for Russia is expected to grow by 2.7 per cent in 2022 due to weak domestic demand and geopolitical tensions which will affect its exports, especially oil, gas and wheat.

**1.29.** The real GDP of ASEAN-5 economy is expected to grow by 5.8 per cent in 2022 bolstered by high commodity prices and strong domestic demand. In Maghreb, the real GDP is expected to be 2.8 per cent in 2022, while that of Mashreq is projected to grow by 4.7 per cent in the same period.

**1.30.** Growth in Sub-Saharan Africa is expected to grow by 3.8 per cent in 2022. In the near term, recovery is expected to continue supported by elevated commodity prices as activities rebound in the region's main trading partners. South Africa's economy is projected to grow by 1.9 per cent in 2022 supported by strong domestic demand and investment. Growth in EAC is expected to accelerate to 5.6 per cent in 2022 due to resumption of the economy and enhanced rollout of COVID-19 vaccination.



SECTION

# B

Domestic Economy



# Economic Performance

## Overview

The economy recovered from the crippling effects of the COVID-19 pandemic to expand by 7.5 per cent in 2021 compared to a contraction of 0.3 per cent in 2020. The recovery was mainly driven by resumption of most economic activities after the lifting of the COVID-19 containment measures instituted in 2020 to curb the spread of the virus. The nominal GDP rose from KSh 10,716.0 billion in 2020 to KSh 12,098.2 billion in 2021, representing an increase of 12.9 per cent. In 2021, all economic activities registered positive growths except Agriculture, Forestry and Fishing which contracted by 0.2 per cent. Accommodation and Food Services, and Education services that had been severely affected by the pandemic grew significantly faster than those that were less affected in 2020. Economic growth in 2021 was supported by improved performances in key sectors of the economy including; Manufacturing (6.9%), Wholesale and Retail Trade (7.9%), Real Estate (6.7%), Transportation and Storage (7.2%), and Financial and insurance activities (12.5%). In contrast, dry weather conditions that characterized the better part of 2021 adversely affected agricultural production, especially growing of key crops such as maize, beans, vegetables, tea and coffee leading to a contraction in its growth during the review period.

**2.2.** The monetary policy stance adopted in 2021 was aimed at accelerating economic recovery after a slowdown in most economic activities in 2021 occasioned by the adverse effects of the COVID-19 pandemic. The Central Bank Rate (CBR) remained at 7.00 per cent throughout the year. Broad money supply (M3) and overall liquidity grew by 6.1 and 9.5 per cent, respectively. The weighted average real interest rate for commercial bank deposits increased to 0.77 per cent in 2021 from 0.68 per cent in 2020. Similarly, loans and advances rate increased from 12.02 per cent in December 2020 to 12.16 per cent in December 2021. During the review period, inflation rose from 5.4 per cent in 2020 to 6.1 per cent in 2021 mainly due to increases in prices of fuel and food items. The current account balance widened from a deficit of KSh 510.1 billion in 2020 to a deficit of KSh 663.0 billion in 2021 owing to faster growth of merchandise imports relative to total exports. Nairobi Securities Exchange (NSE) 20 share index rose from 1,868 points in December 2020 to 1,903 points in December 2021. The average annual price of Murban crude oil increased sharply from USD 41.45 per barrel in 2020 to USD 69.72 per barrel in 2021 mainly resulting from a surge in demand for oil products.

## Sectoral Analysis

### Agriculture, Forestry and Fishing

**2.3.** There was a slowdown in performance of Agriculture, Forestry and Fishing activities in 2021 compared to 2020. This was mainly attributed to unfavourable weather conditions which led to reduction in crop production in the review period. The current ban on logging activities continued to affect sales from government forests which led to a reduction in forestry activities thereby curtailing the sector's growth. The sector's real Gross Value Added (GVA) contracted by 0.2 per cent in 2021 compared to 4.6 per cent growth in 2020. There was decline in production of most of the key food crops in the review period. Maize production declined by 12.8 per cent from 42.1 million bags in 2020 to 36.7 million bags in 2021. Beans and wheat production declined by 14.0 per cent and 39.4 per cent to stand at 7.4 million bags and 245.3 thousand tonnes, respectively in 2021. Production of drought resistant crops declined significantly as evidenced by 57.1 per cent reduction in sorghum production. However, total production of potatoes increased by 10.5 per cent to 2.1 million tonnes in 2021.

**2.4.** There was mixed performance in the production of cash crops during the review period. The volume of coffee and tea produced declined by 6.4 per cent and 5.6 per cent, respectively in 2021. The value of horticulture exports increased from KSh 150.2 billion in 2020 to KSh 157.7 billion in 2021. During the review period, horticultural output; key among them the cut flowers, benefitted from better export prices offered in the export market. The volume of cane deliveries increased by 14.7 per cent from 6.8 million tonnes in 2020 to 7.8 million tonnes in 2021.

**2.5.** The performance of the sector was somewhat saved from a steeper contraction by increased dairy activities where the volume of marketed milk increased from 682.3 million litres in 2020 to 801.9 million litres in 2021.

### Manufacturing

**2.6.** Activities in the manufacturing sector were more vibrant in 2021 compared to 2020. This was mainly on account of the relaxation of COVID-19 containment measures which saw reopening of

the economy and increased demand. The sector recorded an accelerated growth of 6.9 per cent in 2021 compared to 0.4 per cent contraction in 2020. The food sub-sector expanded by 5.5 per cent while the non-food sector grew by 8.8 per cent, respectively in the review period. In the manufacture of food products, activities that posted notable increase in 2021 included; processing of sugar (16.0%); meat and meat products (13.1%); dairy products (10.8%); and bakery products (9.3%). However, manufacture of preserved fruits and vegetables, and that of animal and vegetable fats and oils declined during the review period.

**2.7.** Most of the activities of manufacture of non-food products registered growths in 2021. Some of the non-food activities that posted significant increases include; manufacture of other non-metallic mineral products (23.2%); manufacture of leather and related products (15.6%) and manufacture of motor vehicle, trailers and semi-trailers (18.9%). Credit advanced to enterprises in the manufacturing sector increased from KSh 409.3 billion in 2020 to KSh 463.0 billion in 2021.

### Construction

**2.8.** Performance of the construction sector was relatively slower in 2021 compared to 2020. The sector expanded by 6.6 per cent in 2021 compared to a growth of 10.1 per cent in 2020. The growth was mainly supported by continuous public investment in road infrastructure. Some of the major road construction activities that boosted performance of the sector include the Nairobi expressway and the rehabilitation of Longonot-Malaba railway line. The sector's performance, albeit not as strong as in 2020 was evidenced by a 23.4 per cent increase in cement consumption from 7,375.6 thousand tonnes in 2020 to 9,098.4 thousand tonnes in 2021. However, the quantity of imported iron and steel, non-ferrous metals and cement clinkers was reduced in 2021. The quantity of imported cement clinker declined by 46.9 per cent to 1.1 million metric tonnes in 2021 while that of non-ferrous metal decreased from 48,470.2 tonnes in 2020 to 44,110.4 tonnes in 2021. Credit advanced to the construction sector expanded by 1.9 per cent to KSh 121.9 billion in the review period.

## **Electricity Supply**

**2.9.** The sector's real Gross Value Added (GVA) is estimated to have grown by 4.4 per cent in 2021 compared to a contraction of 0.4 per cent in 2020. This growth was mostly attributed to increase in total electricity generated from 11,556.8 Gigawatt Hour (GWh) in 2020 to 12,347.0 GWh in 2021. Thermal and wind generation increased by 58.3 per cent and 49.1 per cent to stand at 1,194.3 GWh and 1,948.8 GWh, respectively in the review period. However, electricity generated from hydro declined by 13.2 per cent to 3,675.0 GWh due to insufficient rains during the review period. Similarly, electricity generated from geothermal declined by 22.73 GWh to stand at 5,037 GWh in 2021. Electricity imports rose from 136.7 GWh in 2020 to 288.0 GWh in 2021 while exports increased by 10.3 per cent to 18.2 GWh in the same period.

## **Transportation and Storage**

**2.10.** Transportation and storage sector expanded by 7.2 per cent in 2021 compared to a contraction of 7.8 per cent in 2020. The growth was largely supported by the relaxation of COVID-19 containment measures which constrained activities in the sector for the better part of 2020. Freight transport through the Standard Gauge Railway (SGR) increased from 4,411 thousand tonnes in 2020 to 5,407 thousand tonnes in 2021 while passengers through SGR increased from 806 thousand in 2020 to 1,933 thousand in 2021. Total cargo throughput at the Mombasa port increased by 12.5 per cent to stand at 34,760.4 thousand tonnes in 2021.

**2.11.** Impressive growth in the transportation sector was reflected in increase in consumption of light diesel from 2,143.5 thousand metric tonnes in 2020 to 2,288.0 thousand metric tonnes in 2021. Similarly, passenger traffic by air increased by 46.7 per cent to 6.6 million in 2021 while the number of newly registered motor vehicles increased from 94,128 in 2020 to 107,499 in 2021.

## **Information and Communication**

**2.12.** The sector recorded real GVA growth of 8.8 per cent in 2021 compared to a growth of 6.3 per cent in 2020. The growth was mainly supported by increase in mobile money and commerce

transactions coupled with the continued use of digital platforms and services which picked up during the pandemic. The total number of mobile money and commercial transfers increased by 31.7 per cent and 35.0 per cent to stand at KSh 6.9 trillion and KSh 9.4 trillion, respectively in 2021. The number of licensed internet service providers increased from 366 in 2020 to 420 in 2021. The total number of fixed and wireless internet subscriptions increased by 4.4 per cent to stand at 46,355.0 thousand in 2021. Fibre to office subscription increased by 11.9 per cent while international telephone traffic increased by 1.3 per cent in the review period.

## **Financial and Insurance Activities**

**2.13.** Activities of financial and insurance were more vibrant in 2021 than in 2020. The real GVA of the sector expanded by 12.5 per cent in 2021 compared to 5.9 per cent growth in 2020. Most monetary and insurance indicators pointed to better performance of the sector in 2021. The financial sub sector grew by 8.2 per cent in 2021 compared to 4.4 per cent growth in 2020. Broad money supply increased from KSh 3,990.9 billion as at December 2020 to KSh 4,235.2 billion as at December 2021. Total domestic credit grew by 15.1 per cent from KSh 4,339.1 billion in 2020 to KSh 4,993.7 billion in 2021. Credit to national government grew by 21.5 per cent to KSh 1,691.6 billion while credit to private sector grew by 8.6 per cent to KSh 3,136.8 billion as at December 2021. Overall liquidity expanded by 9.5 per cent in 2021 to KSh 6,202.3 billion as at end of 2021.

**2.14.** Insurance sub-sector grew by 27.6 per cent in 2021 compared to 11.7 per cent growth in 2020. The growth was evidenced by 16.2 per cent growth in net premium income to stand at KSh 246,660 million in 2021.

## **Accommodation and Food Services**

**2.15.** The sector was boosted by the lifting of most of the COVID-19 mitigation measures both overseas and domestically in 2021. As a result, the sector's real GVA grew by 52.5 per cent in 2021 compared to a contraction of 47.7 per cent in 2020. While still short of pre-covid levels, the number of international visitor arrivals grew by 50.3 per cent from 579.6 thousand visitors in 2020 to 871.3 thousand visitors in 2021.

Bed night occupancy increased by 50.3 per cent to 5,517.0 thousand in 2021 while the number of conferences held increased significantly from 1,204 in 2020 to 8,409 in 2021.

**2.16** Table 2.1 presents GDP by activity at current prices for the period 2017-2021 while Table 2.2 provides the contribution of the various sectors to nominal GDP for the same period. Nominal

GDP increased from KSh 10,716.0 billion in 2020 to KSh 12,098.2 billion in 2021. The agricultural sector's contribution to GDP declined marginally in 2021 compared to 2020, registering a contribution of 22.4 per cent. Other sectors that contributed significantly to the economy in 2021 were Transportation and Storage (11.4%); Real Estate (8.9%); Manufacturing (7.2%); Financial and Insurance Activities (7.1 %).

**Table 2.1: Gross Domestic Product by Activity, 2017 - 2021**

| Industry  | 2017      | 2018      | 2019      | 2020+     | 2021*     |
|---|-----------|-----------|-----------|-----------|-----------|
| Agriculture, forestry and fishing                             | 1,772,490 | 1,897,475 | 2,135,709 | 2,424,075 | 2,713,414 |
| Growing of crops  | 1,293,474 | 1,356,544 | 1,542,584 | 1,778,058 | 1,970,469 |
| Animal production   | 314,308   | 341,275   | 354,712   | 384,595   | 431,442   |
| Support activities to agriculture                             | 19,403    | 22,643    | 24,236    | 25,361    | 30,952    |
| Forestry & logging  | 102,617   | 125,979   | 156,606   | 172,949   | 199,836   |
| Fishing & aquaculture   | 42,687    | 51,034    | 57,572    | 63,112    | 80,715    |
| Mining and quarrying  | 71,675    | 68,909    | 72,769    | 76,327    | 91,849    |
| Manufacturing   | 741,376   | 785,369   | 809,253   | 815,667   | 876,420   |
| Manufacture of food, beverages and tobacco                    | 424,039   | 452,182   | 467,200   | 469,123   | 499,155   |
| Other manufacturing and repair and installation               | 317,337   | 333,186   | 342,053   | 346,544   | 377,265   |
| Electricity suppl   | 156,737   | 157,521   | 161,716   | 162,850   | 177,115   |
| Water supply; sewerage, waste management                      | 59,271    | 59,648    | 58,912    | 60,070    | 63,274    |
| Construction  | 455,833   | 545,654   | 630,653   | 750,153   | 847,422   |
| Wholesale and retail trade; repairs                           | 713,561   | 762,968   | 837,918   | 866,502   | 957,839   |
| Transportation and storage                                    | 862,956   | 1,056,264 | 1,202,830 | 1,151,833 | 1,383,555 |
| Land transport  | 691,544   | 858,653   | 981,744   | 984,423   | 1,194,430 |
| Air transport including support services                      | 73,479    | 85,203    | 97,215    | 47,885    | 65,867    |
| All other transport including postal and courier activities   | 97,933    | 112,407   | 123,871   | 119,525   | 123,259   |
| Accommodation and food service activities                     | 85,252    | 100,019   | 119,581   | 77,813    | 119,865   |
| Information and communication                                 | 223,497   | 240,120   | 257,419   | 274,711   | 294,379   |
| Telecommunications  | 147,279   | 157,667   | 171,633   | 191,898   | 205,747   |
| Publishing, broadcasting, other IT and information activities | 76,218    | 82,452    | 85,786    | 82,813    | 88,632    |
| Financial and insurance activities                            | 634,089   | 622,625   | 667,702   | 724,289   | 856,513   |
| Financial activities  | 509,667   | 480,309   | 509,946   | 543,738   | 617,587   |

**Table 2.1: Gross Domestic Product by Activity, 2017 - 2021 (Continued)**

| Industry  | 2017             | 2018             | 2019*             | 2020*             | 2021*             |
|---|------------------|------------------|-------------------|-------------------|-------------------|
| Insurance activities  | 124,423          | 142,315          | 157,755           | 180,550           | 238,926           |
| Real estate   | 792,515          | 881,622          | 946,732           | 995,910           | 1,072,543         |
| Professional, scientific and technical activities             | 154,320          | 163,959          | 175,882           | 159,387           | 172,246           |
| Administrative and support service activities                 | 83,429           | 97,502           | 108,875           | 92,681            | 104,962           |
| Public administration and defence                             | 442,962          | 493,180          | 541,367           | 592,610           | 632,165           |
| Education   | 365,477          | 399,515          | 431,876           | 413,026           | 515,129           |
| Pre-primary and Primary education                             | 184,303          | 208,393          | 215,329           | 209,901           | 250,175           |
| General secondary education                                   | 98,828           | 109,878          | 119,592           | 110,004           | 149,977           |
| Higher and other education                                    | 82,346           | 81,245           | 96,955            | 93,121            | 114,976           |
| Human health and social work activities                       | 175,811          | 188,778          | 197,969           | 213,215           | 232,623           |
| Arts, entertainment and recreation                            | 22,440           | 24,541           | 27,056            | 19,936            | 23,440            |
| Other service activities                                      | 122,146          | 135,539          | 144,894           | 124,226           | 142,637           |
| Activities of households as employers;                        | 59,870           | 65,710           | 68,917            | 72,064            | 75,121            |
| Financial Intermediation Services Indirectly Measured (FISIM) | -241,384         | -215,414         | -226,631          | -218,991          | -241,849          |
| <b>All economic activities</b>                                | <b>7,754,323</b> | <b>8,531,502</b> | <b>9,371,398</b>  | <b>9,848,354</b>  | <b>11,110,660</b> |
| Taxes on products   | 729,074          | 808,805          | 866,330           | 867,680           | 987,540           |
| <b>GDP at market prices</b>                                   | <b>8,483,396</b> | <b>9,340,307</b> | <b>10,237,727</b> | <b>10,716,034</b> | <b>12,098,200</b> |

\* Provisional

- Revised

**Table 2.2: Gross Domestic Product by Activity, 2017-2021**

| Industry   | Percentage Contribution to nominal GDP |              |              |              |              |
|--|--|--------------|--------------|--------------|--------------|
|  | 2017                                   | 2018         | 2019*        | 2020*        | 2021*        |
| Agriculture, forestry and fishing                                | 20.9                                   | 20.3         | 20.9         | 22.6         | 22.4         |
| Growing of crops   | 15.2                                   | 14.5         | 15.1         | 16.6         | 16.3         |
| Animal production  | 3.7                                    | 3.7          | 3.5          | 3.6          | 3.6          |
| Support activities to agriculture                                | 0.2                                    | 0.2          | 0.2          | 0.2          | 0.3          |
| Forestry & logging   | 1.2                                    | 1.3          | 1.5          | 1.6          | 1.7          |
| Fishing & aquaculture  | 0.5                                    | 0.5          | 0.6          | 0.6          | 0.7          |
| Mining and quarrying   | 0.8                                    | 0.7          | 0.7          | 0.7          | 0.8          |
| Manufacturing  | 8.7                                    | 8.4          | 7.9          | 7.6          | 7.2          |
| Manufacture of food, beverages and tobacco                       | 5.0                                    | 4.8          | 4.6          | 4.4          | 4.1          |
| Other manufacturing and repair and installation                  | 3.7                                    | 3.6          | 3.3          | 3.2          | 3.1          |
| Electricity supply   | 1.8                                    | 1.7          | 1.6          | 1.5          | 1.5          |
| Water supply; sewerage, waste management                         | 0.7                                    | 0.6          | 0.6          | 0.6          | 0.5          |
| Construction   | 5.4                                    | 5.8          | 6.2          | 7.0          | 7.0          |
| Wholesale and retail trade; repairs                              | 8.4                                    | 8.2          | 8.2          | 8.1          | 7.9          |
| Transportation and storage                                       | 10.2                                   | 11.3         | 11.7         | 10.7         | 11.4         |
| Land transport   | 8.2                                    | 9.2          | 9.6          | 9.2          | 9.9          |
| Air transport including support services                         | 0.9                                    | 0.9          | 0.9          | 0.4          | 0.5          |
| All other transport including postal and courier activities      | 1.2                                    | 1.2          | 1.2          | 1.1          | 1.0          |
| Accommodation and food service activities                        | 1.0                                    | 1.1          | 1.2          | 0.7          | 1.0          |
| Information and communication                                    | 2.6                                    | 2.6          | 2.5          | 2.6          | 2.4          |
| Telecommunications   | 1.7                                    | 1.7          | 1.7          | 1.8          | 1.7          |
| Publishing, broadcasting, other IT and information activities... | 0.9                                    | 0.9          | 0.8          | 0.8          | 0.7          |
| Financial and insurance activities                               | 7.5                                    | 6.7          | 6.5          | 6.8          | 7.1          |
| Financial activities   | 6.0                                    | 5.1          | 5.0          | 5.1          | 5.1          |
| Insurance activities   | 1.5                                    | 1.5          | 1.5          | 1.7          | 2.0          |
| Real estate  | 9.3                                    | 9.4          | 9.2          | 9.3          | 8.9          |
| Professional, scientific and technical activities                | 1.8                                    | 1.8          | 1.7          | 1.5          | 1.4          |
| Administrative and support service activities                    | 1.0                                    | 1.0          | 1.1          | 0.9          | 0.9          |
| Public administration and defence                                | 5.2                                    | 5.3          | 5.3          | 5.5          | 5.2          |
| Education  | 4.3                                    | 4.3          | 4.2          | 3.9          | 4.3          |
| Primary education  | 2.2                                    | 2.2          | 2.1          | 2.0          | 2.1          |
| General secondary education                                      | 1.2                                    | 1.2          | 1.2          | 1.0          | 1.2          |
| Higher and other education                                       | 1.0                                    | 0.9          | 0.9          | 0.9          | 1.0          |
| Human health and social work activities                          | 2.1                                    | 2.0          | 1.9          | 2.0          | 1.9          |
| Arts, entertainment and recreation                               | 0.3                                    | 0.3          | 0.3          | 0.2          | 0.2          |
| Other service activities   | 1.4                                    | 1.5          | 1.4          | 1.2          | 1.2          |
| Activities of households as employers;                           | 0.7                                    | 0.7          | 0.7          | 0.7          | 0.6          |
| Financial Intermediation Services Indirectly Measured (FISIM)    | -2.8                                   | -2.3         | -2.2         | -2.0         | -2.0         |
| <b>All economic activities</b>                                   | <b>91.4</b>                            | <b>91.3</b>  | <b>91.5</b>  | <b>91.9</b>  | <b>91.8</b>  |
| Taxes on products  | 8.6                                    | 8.7          | 8.5          | 8.1          | 8.2          |
| <b>GDP at market prices</b>                                      | <b>100.0</b>                           | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |

\* Provisional

+ Revised

**2.17.** Table 2.3 presents the GDP at constant prices while growth rates for the respective sectors and sub-sectors are shown in Table 2.4. Real GDP in absolute terms increased from a revised total of KSh 8,735.0 billion in 2020 to KSh 9,391.7 billion in 2021. This translated to an overall growth of 7.5 per cent in 2021 compared to a contraction of 0.3 per cent in 2020. Accommodation and food services registered the highest growth from a contraction of

47.7 per cent in 2020 to a growth of 52.5 per cent, mainly attributed to recovery of the tourism sector. The various sectors registered mixed performance in 2021 with some registering slowed growths while others recorded improvements. Some of the sectors that recorded higher growths in 2021 compared to 2020 include; Education (21.4%); Financial and Insurance (12.5%); Information and communication (8.8%) Transportation and Storage (7.2 %)

**Table 2.3: Gross Domestic Product by Activity, 2017-2021**

| Industry  | Constant 2016 Prices, KSh Million |                  |                  |                  |                  |
|---|-----------------------------------|------------------|------------------|------------------|------------------|
|   | 2017                              | 2018             | 2019*            | 2020*            | 2021*            |
| Agriculture, forestry and fishing                             | 1,501,817                         | 1,587,784        | 1,630,607        | 1,706,221        | 1,703,335        |
| Growing of crops  | 1,061,320                         | 1,129,072        | 1,163,210        | 1,229,553        | 1,211,234        |
| Animal production   | 286,095                           | 299,210          | 304,887          | 315,107          | 327,394          |
| Support activities to agriculture                             | 18,753                            | 21,269           | 22,442           | 23,052           | 26,905           |
| Forestry & logging  | 97,686                            | 96,678           | 96,789           | 94,871           | 92,561           |
| Fishing & aquaculture   | 37,963                            | 41,554           | 43,280           | 43,638           | 45,242           |
| Mining and quarrying  | 83,907                            | 79,986           | 83,386           | 87,952           | 103,827          |
| Manufacturing   | 712,807                           | 738,305          | 757,794          | 754,617          | 807,003          |
| Manufacture of food, beverages and tobacco                    | 395,912                           | 417,709          | 429,714          | 422,662          | 445,899          |
| Other manufacturing and repair and installation               | 316,895                           | 320,597          | 328,080          | 331,955          | 361,104          |
| Electricity supply  | 150,627                           | 156,679          | 159,673          | 159,039          | 166,028          |
| Water supply; sewerage, waste management                      | 56,323                            | 57,743           | 58,473           | 60,489           | 64,381           |
| Construction  | 413,717                           | 438,962          | 470,526          | 517,977          | 552,076          |
| Wholesale and retail trade; repairs                           | 655,259                           | 694,215          | 730,922          | 727,550          | 784,736          |
| Transportation and storage                                    | 801,274                           | 849,165          | 902,898          | 832,068          | 892,262          |
| Land transport  | 636,887                           | 670,319          | 712,945          | 691,962          | 737,142          |
| Air transport including support services                      | 70,189                            | 74,769           | 77,514           | 35,585           | 41,973           |
| All other transport including postal and courier activities   | 94,197                            | 104,078          | 112,439          | 104,521          | 113,147          |
| Accommodation and food service activities                     | 76,883                            | 88,863           | 101,584          | 53,114           | 81,004           |
| Information and communication                                 | 223,445                           | 241,178          | 257,959          | 274,200          | 298,324          |
| Telecommunications  | 150,030                           | 163,634          | 177,247          | 199,512          | 218,868          |
| Publishing, broadcasting, other IT and information activities | 73,415                            | 77,544           | 80,712           | 74,687           | 79,455           |
| Financial and insurance activities                            | 612,981                           | 629,731          | 680,556          | 721,033          | 811,390          |
| Financial activities  | 493,036                           | 497,023          | 535,249          | 558,781          | 604,388          |
| Insurance activities  | 119,945                           | 132,708          | 145,307          | 162,252          | 207,002          |
| Real estate   | 753,420                           | 802,728          | 856,588          | 891,574          | 951,352          |
| Professional, scientific and technical activities             | 152,058                           | 160,325          | 171,268          | 151,533          | 160,002          |
| Administrative and support service activities                 | 79,064                            | 86,819           | 92,729           | 76,392           | 80,847           |
| Public administration and defence                             | 426,049                           | 459,667          | 498,143          | 532,794          | 562,551          |
| Education   | 367,395                           | 392,401          | 414,661          | 376,301          | 456,962          |
| Pre-primary and Primary education                             | 177,217                           | 193,608          | 199,687          | 182,827          | 217,733          |
| General secondary education                                   | 96,613                            | 102,370          | 110,715          | 94,116           | 126,567          |
| Higher and other education                                    | 93,565                            | 96,423           | 104,259          | 99,358           | 112,662          |
| Human health and social work activities                       | 166,956                           | 176,043          | 185,702          | 196,367          | 208,193          |
| Arts, entertainment and recreation                            | 21,292                            | 22,089           | 23,857           | 17,114           | 19,457           |
| Other service activities                                      | 114,000                           | 118,593          | 124,449          | 100,205          | 119,109          |
| Activities of households as employers;                        | 55,957                            | 56,797           | 57,649           | 58,513           | 59,391           |
| Financial Intermediation Services Indirectly Measured         | -245,063                          | -254,198         | -278,418         | -273,442         | -288,530         |
| <b>All economic activities</b>                                | <b>7,180,165</b>                  | <b>7,583,875</b> | <b>7,981,005</b> | <b>8,021,610</b> | <b>8,593,701</b> |
| Taxes on products   | 705,356                           | 747,016          | 775,941          | 713,430          | 797,982          |
| <b>GDP at market prices</b>                                   | <b>7,885,521</b>                  | <b>8,330,891</b> | <b>8,756,946</b> | <b>8,735,040</b> | <b>9,391,684</b> |

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**Table 2.4: Gross Domestic Product by Activity (growth)**

| Industry  | Percentage Changes |            |            |             |            |
|---|--------------------|------------|------------|-------------|------------|
|   | 2017               | 2018       | 2019*      | 2020*       | 2021*      |
| Agriculture, forestry and fishing                             | -1.3               | 5.7        | 2.7        | 4.6         | -0.2       |
| Growing of crops  | -1.0               | 6.4        | 3.0        | 5.7         | -1.5       |
| Animal production   | -6.9               | 4.6        | 1.9        | 3.4         | 3.9        |
| Support activities to agriculture                             | 12.8               | 13.4       | 5.5        | 2.7         | 16.7       |
| Forestry & logging  | 3.3                | -1.0       | 0.1        | -2.0        | -2.4       |
| Fishing & aquaculture   | 24.1               | 9.5        | 4.2        | 0.8         | 3.7        |
| Mining and quarrying  | 3.2                | -4.7       | 4.3        | 5.5         | 18.1       |
| Manufacturing   | 0.7                | 3.6        | 2.6        | -0.4        | 6.9        |
| Manufacture of food, beverages and tobacco                    | 1.5                | 5.5        | 2.9        | -1.6        | 5.5        |
| Other manufacturing and repair and installation               | -0.3               | 1.2        | 2.3        | 1.2         | 8.8        |
| Electricity supply  | 5.6                | 4.0        | 1.9        | -0.4        | 4.4        |
| Water supply; sewerage, waste management                      | -3.2               | 2.5        | 1.3        | 3.4         | 6.4        |
| Construction  | 6.3                | 6.1        | 7.2        | 10.1        | 6.6        |
| Wholesale and retail trade; repairs                           | 4.3                | 5.9        | 5.3        | -0.5        | 7.9        |
| Transportation and storage                                    | 3.5                | 6.0        | 6.3        | -7.8        | 7.2        |
| Land transport  | 6.3                | 5.2        | 6.4        | -2.9        | 6.5        |
| Air transport including support services                      | -16.0              | 6.5        | 3.7        | -54.1       | 18.0       |
| All other transport including postal and courier activities   | 3.7                | 10.5       | 8.0        | -7.0        | 8.3        |
| Accommodation and food services                               | 9.4                | 15.6       | 14.3       | -47.7       | 52.5       |
| Information and communication                                 | 8.1                | 7.9        | 7.0        | 6.3         | 8.8        |
| Telecommunications  | 11.9               | 9.1        | 8.3        | 12.6        | 9.7        |
| Publishing, broadcasting, other IT and information activities | 1.0                | 5.6        | 4.1        | -7.5        | 6.4        |
| Financial and insurance activities                            | 4.1                | 2.7        | 8.1        | 5.9         | 12.5       |
| Financial activities  | 3.8                | 0.8        | 7.7        | 4.4         | 8.2        |
| Insurance activities  | 5.2                | 10.6       | 9.5        | 11.7        | 27.6       |
| Real estate   | 6.7                | 6.5        | 6.7        | 4.1         | 6.7        |
| Professional, scientific and technical activities             | 3.7                | 5.4        | 6.8        | -11.5       | 5.6        |
| Administrative and support service activities                 | 1.6                | 9.8        | 6.8        | -17.6       | 5.8        |
| Public administration and defence                             | 3.9                | 7.9        | 8.4        | 7.0         | 5.6        |
| Education   | 8.7                | 6.8        | 5.7        | -9.3        | 21.4       |
| Primary education   | 13.6               | 9.2        | 3.1        | -8.4        | 19.1       |
| General secondary education                                   | 3.2                | 6.0        | 8.2        | -15.0       | 34.5       |
| Higher and other education                                    | 5.9                | 3.1        | 8.1        | -4.7        | 13.4       |
| Human health and social work activities                       | 6.4                | 5.4        | 5.5        | 5.7         | 6.0        |
| Arts, entertainment and recreation                            | 16.5               | 3.7        | 8.0        | -28.3       | 13.7       |
| Other service activities                                      | 3.9                | 4.0        | 4.9        | -19.5       | 18.9       |
| Activities of households as employers;                        | 1.5                | 1.5        | 1.5        | 1.5         | 1.5        |
| Financial Intermediation Services Indirectly Measured         | -6.0               | 3.7        | 9.5        | -1.8        | 5.5        |
| All industries at basic prices                                | 3.7                | 5.6        | 5.2        | 0.5         | 7.1        |
| Taxes on products   | 5.7                | 5.9        | 3.9        | -8.1        | 11.9       |
| <b>GDP at market prices</b>                                   | <b>3.8</b>         | <b>5.6</b> | <b>5.1</b> | <b>-0.3</b> | <b>7.5</b> |

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**2.18.** Table 2.5 shows the sectoral contribution to the overall growth for the period 2017-2021. Financial and Insurance was the leading source of GDP growth in 2021 accounting for 13.8 per cent followed by Education which accounted for about 12.3 per cent of the overall growth. Other sectors that contribut-

ed significantly to the overall growth include; Taxes on Products (12.9%); Transportation and Storage (9.2%); Real Estate (9.1%); Wholesale and Retail Trade (8.7%). On the other hand, Agriculture, Forestry and Fishing contribution to the overall growth contracted by 0.4 per cent in the period under review.

**Table 2.5: Sources of Growth, 2017-2021**

| Industry  | 2017 | 2018 | 2019* | 2020*  | Percentage Changes<br>2021* |
|---|------|------|-------|--------|-----------------------------|
| Agriculture, forestry and fishing                             | -6.7 | 19.3 | 10.1  | -345.2 | -0.4                        |
| Growing of crops  | -3.8 | 15.2 | 8.0   | -302.9 | -2.8                        |
| Animal production   | -7.2 | 2.9  | 1.3   | -46.7  | 1.9                         |
| Support activities to agriculture                             | 0.7  | 0.6  | 0.3   | -2.8   | 0.6                         |
| Forestry & logging  | 1.1  | -0.2 | 0.0   | 8.8    | -0.4                        |
| Fishing & aquaculture   | 2.5  | 0.8  | 0.4   | -1.6   | 0.2                         |
| Mining and quarrying  | 0.9  | -0.9 | 0.8   | -20.8  | 2.4                         |
| Manufacturing   | 1.7  | 5.7  | 4.6   | 14.5   | 8.0                         |
| Manufacture of food, beverages and tobacco                    | 2.0  | 4.9  | 2.8   | 32.2   | 3.5                         |
| Other manufacturing and repair and installation               | -0.3 | 0.8  | 1.8   | -17.7  | 4.4                         |
| Electricity supply  | 2.7  | 1.4  | 0.7   | 2.9    | 1.1                         |
| Water supply; sewerage, waste management                      | -0.6 | 0.3  | 0.2   | -9.2   | 0.6                         |
| Construction  | 8.4  | 5.7  | 7.4   | -216.6 | 5.2                         |
| Wholesale and retail trade; repairs                           | 9.2  | 8.7  | 8.6   | 15.4   | 8.7                         |
| Transportation and storage                                    | 9.4  | 10.8 | 12.6  | 323.3  | 9.2                         |
| Land transport  | 12.9 | 7.5  | 10.0  | 95.8   | 6.9                         |
| Air transport including support services                      | -4.6 | 1.0  | 0.6   | 191.4  | 1.0                         |
| All other transport including postal and courier activities   | 1.1  | 2.2  | 2.0   | 36.1   | 1.3                         |
| Accommodation and food services                               | 2.3  | 2.7  | 3.0   | 221.3  | 4.2                         |
| Information and communication                                 | 5.7  | 4.0  | 3.9   | -74.1  | 3.7                         |
| Telecommunications  | 5.5  | 3.1  | 3.2   | -101.6 | 2.9                         |
| Publishing, broadcasting, other IT and information activities | 0.2  | 0.9  | 0.7   | 27.5   | 0.7                         |
| Financial and insurance activities                            | 8.3  | 3.8  | 11.9  | -184.8 | 13.8                        |
| Financial activities  | 6.2  | 0.9  | 9.0   | -107.4 | 6.9                         |
| Insurance activities  | 2.0  | 2.9  | 3.0   | -77.4  | 6.8                         |
| Real estate   | 16.3 | 11.1 | 12.6  | -159.7 | 9.1                         |
| Professional, scientific and technical activities             | 1.9  | 1.9  | 2.6   | 90.1   | 1.3                         |
| Administrative and support service activities                 | 0.4  | 1.7  | 1.4   | 74.6   | 0.7                         |
| Public administration and defence                             | 5.5  | 7.5  | 9.0   | -158.2 | 4.5                         |

\* Provisional

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**Table 2.5: Sources of Growth, 2017-2021 (Continued)**

| Industry  | 2017         | 2018         | 2019*        | 2020*         | 2021*        | <i>Percentage changes</i> |
|---|--------------|--------------|--------------|---------------|--------------|---------------------------|
| Education   | 10.1         | 5.6          | 5.2          | 175.1         | 12.3         |                           |
| Primary education                                     | 7.3          | 3.7          | 1.4          | 77.0          | 5.3          |                           |
| General secondary education                           | 1.0          | 1.3          | 2.0          | 75.8          | 4.9          |                           |
| Higher and other education                            | 1.8          | 0.6          | 1.8          | 22.4          | 2.0          |                           |
| Human health and social work activities               | 3.5          | 2.0          | 2.3          | -48.7         | 1.8          |                           |
| Arts, entertainment and recreation                    | 1.0          | 0.2          | 0.4          | 30.8          | 0.4          |                           |
| Other service activities                              | 1.5          | 1.0          | 1.4          | 110.7         | 2.9          |                           |
| Activities of households as employers                 | 0.3          | 0.2          | 0.2          | -3.9          | 0.1          |                           |
| Financial Intermediation Services Indirectly Measured | 5.3          | -2.1         | -5.7         | -22.7         | -2.3         |                           |
| <b>All industries at basic prices</b>                 | <b>87.0</b>  | <b>90.6</b>  | <b>93.2</b>  | <b>-185.4</b> | <b>87.1</b>  |                           |
| Taxes on products                                     | 13.0         | 9.4          | 6.8          | 285.4         | 12.9         |                           |
| <b>GDP at market prices</b>                           | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b>  | <b>100.0</b> |                           |

*\* Provisional**\* Revised*

**2.19.** The annual production accounts for all industries at current prices for the period 2017-2021 are presented in Table 2.6. The total value of output generated in 2021 stood at KSh 18,444.8 billion in 2021 up from KSh 16,210.4 billion in 2020. the value of intermediate consumption increased from KSh 6,362.0 billion in 2020 to KSh 7,334.1 billion in 2021. Total value addition to the economy rose to KSh 11,110.7 billion in 2021 from KSh 9,848.4 billion in 2020.

**Table 2.6: Annual Production Accounts by Industry, 2017-2021**

| Industry                                 | 2017        | 2018        | 2019*       | 2020*       | 2021*       |
|--|-------------|-------------|-------------|-------------|-------------|
| <b>Current Prices, KSh Million</b>       |             |             |             |             |             |
| <b>Agriculture, forestry and fishing</b> |             |             |             |             |             |
| Output at basic prices                   | 2,161,306.4 | 2,299,659.7 | 2,578,151.4 | 2,928,655.1 | 3,298,200.7 |
| Intermediate consumption                 | 388,816.3   | 402,185.2   | 442,442.2   | 504,580.4   | 584,787.1   |
| Value added, gross                       | 1,772,490.1 | 1,897,474.6 | 2,135,709.3 | 2,424,074.7 | 2,713,413.6 |
| Compensation of employees                | 153,173.4   | 163,855.1   | 182,358.2   | 206,809.2   | 221,474.9   |
| Operating surplus/mixed income, gross    | 1,619,316.7 | 1,733,619.5 | 1,953,351.1 | 2,217,265.4 | 2,491,938.7 |
| <b>Mining and quarrying</b>              |             |             |             |             |             |
| Output at basic prices                   | 141,012.3   | 136,425.2   | 141,312.5   | 149,853.4   | 190,641.5   |
| Intermediate consumption                 | 69,337.3    | 67,516.5    | 68,543.7    | 73,526.0    | 98,792.8    |
| Value added, gross                       | 71,675.0    | 68,908.6    | 72,768.8    | 76,327.4    | 91,848.8    |
| Compensation of employees                | 14,475.0    | 15,471.5    | 17,004.3    | 15,625.9    | 15,307.3    |
| Operating surplus/mixed income, gross    | 57,200.0    | 53,437.2    | 55,764.5    | 60,701.5    | 76,541.4    |
| <b>Manufacturing</b>                     |             |             |             |             |             |
| Output at basic prices                   | 2,109,602.2 | 2,216,546.9 | 2,311,586.1 | 2,373,278.4 | 2,685,544.6 |
| Intermediate consumption                 | 1,368,226.5 | 1,431,178.2 | 1,502,332.8 | 1,557,611.9 | 1,809,124.9 |
| Value added, gross                       | 741,375.7   | 785,368.7   | 809,253.3   | 815,666.5   | 876,419.8   |
| Compensation of employees                | 190,338.9   | 206,419.9   | 218,255.2   | 215,492.4   | 231,984.5   |
| Operating surplus/mixed income, gross    | 551,036.9   | 578,948.8   | 590,998.1   | 600,174.1   | 644,435.3   |
| <b>Electricity, gas and water supply</b> |             |             |             |             |             |
| Output at basic prices                   | 267,454.5   | 270,644.5   | 276,182.9   | 280,093.1   | 302,969.0   |
| Intermediate consumption                 | 51,446.5    | 53,475.3    | 55,555.2    | 57,172.8    | 62,580.1    |
| Value added, gross                       | 216,007.9   | 217,169.2   | 220,627.7   | 222,920.3   | 240,388.9   |
| Compensation of employees                | 38,664.3    | 41,686.5    | 44,404.4    | 45,226.1    | 46,311.0    |
| Operating surplus/mixed income, gross    | 177,343.6   | 175,482.7   | 176,223.3   | 177,694.2   | 194,078.0   |
| <b>Construction</b>                      |             |             |             |             |             |
| Output at basic prices                   | 1,074,220.6 | 1,229,130.0 | 1,391,357.3 | 1,623,605.0 | 1,818,538.8 |
| Intermediate consumption                 | 618,388.1   | 683,476.2   | 760,703.9   | 873,451.6   | 971,116.9   |
| Value added, gross                       | 455,832.6   | 545,653.8   | 630,653.3   | 750,153.4   | 847,421.9   |
| Compensation of employees                | 294,487.5   | 352,677.0   | 411,515.5   | 466,791.8   | 507,697.8   |
| Operating surplus/mixed income, gross    | 161,345.1   | 192,976.8   | 219,137.8   | 283,361.6   | 339,724.1   |
| <b>Wholesale and retail trade</b>        |             |             |             |             |             |
| Output at basic prices                   | 1,342,702.3 | 1,465,228.5 | 1,601,687.9 | 1,647,047.8 | 1,876,017.1 |
| Intermediate consumption                 | 629,141.7   | 702,260.5   | 763,770.1   | 780,545.6   | 918,178.5   |
| Value added, gross                       | 713,560.6   | 762,968.0   | 837,917.8   | 866,502.3   | 957,838.6   |
| Compensation of employees                | 219,945.6   | 275,818.4   | 269,347.5   | 277,162.9   | 288,337.3   |

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**Table 2.6: Annual Production Accounts by Industry, 2017-2021 (Continued)**

| <b>Industry</b>                           | <b>2017</b> | <b>2018</b> | <b>2019*</b> | <b>2020*</b> | <b>2021*</b> | <b>Current Prices, KSh Million</b> |
|---|-------------|-------------|--------------|--------------|--------------|------------------------------------|
| Operating surplus/mixed income, gross     | 493,615.0   | 487,149.5   | 568,570.3    | 589,339.4    | 669,501.3    |                                    |
| <b>Transportation and storage</b>         |             |             |              |              |              |                                    |
| Output at basic prices                    | 1,625,039.2 | 1,880,796.9 | 2,082,169.9  | 1,965,157.0  | 2,293,249.8  |                                    |
| Intermediate consumption                  | 762,082.9   | 824,533.3   | 879,339.8    | 813,324.4    | 909,694.5    |                                    |
| Value added, gross                        | 862,956.3   | 1,056,263.6 | 1,202,830.1  | 1,151,832.6  | 1,383,555.3  |                                    |
| Compensation of employees                 | 191,131.7   | 212,354.2   | 260,947.4    | 256,972.1    | 266,991.2    |                                    |
| Operating surplus/mixed income, gross     | 671,824.6   | 843,909.4   | 941,882.7    | 894,860.4    | 1,116,564.2  |                                    |
| <b>Accommodation and Food Services</b>    |             |             |              |              |              |                                    |
| Output at basic prices                    | 229,018.7   | 277,731.0   | 346,938.9    | 171,968.1    | 287,959.6    |                                    |
| Intermediate consumption                  | 143,766.4   | 177,711.9   | 227,357.9    | 94,155.4     | 168,094.8    |                                    |
| Value added, gross                        | 85,252.3    | 100,019.1   | 119,581.0    | 77,812.8     | 119,864.9    |                                    |
| Compensation of employees                 | 36,388.3    | 39,639.4    | 43,273.9     | 28,816.5     | 33,828.2     |                                    |
| Operating surplus/mixed income, gross     | 48,863.9    | 60,379.7    | 76,307.1     | 48,996.3     | 86,036.6     |                                    |
| <b>Information and communication</b>      |             |             |              |              |              |                                    |
| Output at basic prices                    | 462,012.6   | 494,269.2   | 522,621.8    | 529,809.0    | 566,260.1    |                                    |
| Intermediate consumption                  | 238,515.6   | 254,149.3   | 265,202.9    | 255,098.3    | 271,881.1    |                                    |
| Value added, gross                        | 223,497.0   | 240,119.9   | 257,419.0    | 274,710.7    | 294,379.0    |                                    |
| Compensation of employees                 | 83,750.4    | 95,132.8    | 101,835.1    | 97,418.6     | 113,074.1    |                                    |
| Operating surplus/mixed income, gross     | 139,746.6   | 144,987.1   | 155,583.8    | 177,292.1    | 181,304.9    |                                    |
| <b>Financial and insurance activities</b> |             |             |              |              |              |                                    |
| Output at basic prices                    | 865,756.1   | 864,482.3   | 924,259.2    | 967,206.2    | 1,126,852.5  |                                    |
| Intermediate consumption                  | 231,666.8   | 241,857.7   | 256,557.5    | 242,917.5    | 270,339.5    |                                    |
| Value added, gross                        | 634,089.3   | 622,624.6   | 667,701.7    | 724,288.7    | 856,513.0    |                                    |
| Compensation of employees                 | 135,321.8   | 136,426.9   | 147,642.4    | 151,847.8    | 163,733.3    |                                    |
| Operating surplus/mixed income, gross     | 498,767.5   | 486,197.7   | 520,059.3    | 572,440.9    | 692,779.7    |                                    |

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**Table 2.6: Annual Production Accounts by Industry, 2017-2021 (Continued)**

| Industry   | 2017      | 2018      | 2019*       | 2020*       | Current Prices, KSh Million<br>2021* |
|--|-----------|-----------|-------------|-------------|--------------------------------------|
| <b>Real estate</b>                                       |           |           |             |             |                                      |
| Output at basic prices                                   | 864,898.1 | 962,638.1 | 1,035,989.1 | 1,092,311.1 | 1,183,126.0                          |
| Intermediate consumption                                 | 72,382.6  | 81,016.5  | 89,256.8    | 96,400.9    | 110,583.1                            |
| Value added, gross                                       | 792,515.5 | 881,621.7 | 946,732.3   | 995,910.2   | 1,072,542.9                          |
| Compensation of employees                                | 71,424.0  | 79,475.0  | 85,478.1    | 90,172.5    | 97,611.6                             |
| Operating surplus/mixed income, gross                    | 721,091.5 | 802,146.6 | 861,254.1   | 905,737.8   | 974,931.3                            |
| <b>Professional, scientific and technical activities</b> |           |           |             |             |                                      |
| Output at basic prices                                   | 226,976.6 | 244,042.9 | 262,094.0   | 238,960.0   | 261,753.4                            |
| Intermediate consumption                                 | 72,656.2  | 80,083.7  | 86,212.2    | 79,572.9    | 89,507.7                             |
| Value added, gross                                       | 154,320.4 | 163,959.2 | 175,881.8   | 159,387.0   | 172,245.7                            |
| Compensation of employees                                | 41,550.5  | 44,352.1  | 49,185.5    | 48,114.7    | 47,664.4                             |
| Operating surplus/mixed income, gross                    | 112,769.9 | 119,607.1 | 126,696.3   | 111,272.3   | 124,581.3                            |
| <b>Administrative and support service activities</b>     |           |           |             |             |                                      |
| Output at basic prices                                   | 120,522.4 | 139,970.3 | 155,697.1   | 132,645.1   | 152,378.4                            |
| Intermediate consumption                                 | 37,093.1  | 42,468.1  | 46,822.2    | 39,963.7    | 47,416.1                             |
| Value added, gross                                       | 83,429.3  | 97,502.2  | 108,874.9   | 92,681.4    | 104,962.3                            |
| Compensation of employees                                | 47,152.4  | 52,842.6  | 59,423.7    | 50,295.8    | 60,719.9                             |
| Operating surplus/mixed income, gross                    | 36,276.9  | 44,659.6  | 49,451.1    | 42,385.6    | 44,242.4                             |
| <b>Public administration and defence</b>                 |           |           |             |             |                                      |
| Output at basic prices                                   | 705,299.8 | 776,605.9 | 847,824.3   | 925,953.9   | 982,240.4                            |
| Intermediate consumption                                 | 262,337.8 | 283,425.5 | 306,457.5   | 333,344.2   | 350,074.9                            |
| Value added, gross                                       | 442,962.0 | 493,180.4 | 541,366.8   | 592,609.8   | 632,165.5                            |
| Compensation of employees                                | 334,220.7 | 367,383.6 | 412,289.1   | 456,035.9   | 487,215.3                            |
| Operating surplus/mixed income, gross                    | 108,741.3 | 125,796.8 | 129,077.7   | 136,573.9   | 144,950.2                            |
| <b>Education</b>   |           |           |             |             |                                      |
| Output at basic prices                                   | 550,958.0 | 603,676.0 | 649,507.1   | 580,722.1   | 742,525.6                            |
| Intermediate consumption                                 | 185,480.7 | 204,160.8 | 217,631.5   | 167,696.2   | 227,397.0                            |
| Value added, gross                                       | 365,477.2 | 399,515.2 | 431,875.5   | 413,026.0   | 515,128.6                            |
| Compensation of employees                                | 314,694.5 | 358,634.2 | 384,783.7   | 379,703.1   | 469,096.2                            |
| Operating surplus/mixed income, gross                    | 50,782.7  | 40,880.9  | 47,091.8    | 33,322.9    | 46,032.5                             |
| <b>Health and social work</b>                            |           |           |             |             |                                      |
| Output at basic prices                                   | 285,712.0 | 300,199.6 | 317,761.5   | 337,189.3   | 375,016.8                            |
| Intermediate consumption                                 | 109,901.1 | 111,422.1 | 119,792.6   | 123,974.0   | 142,394.3                            |

\* Provisional

+ Revised

**Table 2.6: Annual Production Accounts by Industry, 2017-2021 (Continued)**

| <b>Industry</b>                                     |                    |                    |                     |                     | <b>Current Prices, KSh Million</b> |
|---|--------------------|--------------------|---------------------|---------------------|------------------------------------|
|   | <b>2017</b>        | <b>2018</b>        | <b>2019*</b>        | <b>2020*</b>        | <b>2021*</b>                       |
| Value added, gross                                  | 175,810.8          | 188,777.5          | 197,968.9           | 213,215.3           | 232,622.5                          |
| Compensation of employees                           | 126,233.9          | 138,350.1          | 149,923.7           | 164,789.4           | 174,217.1                          |
| Operating surplus/mixed income, gross               | 49,576.9           | 50,427.4           | 48,045.2            | 48,425.9            | 58,405.5                           |
| <b>Other service activities</b>                     |                    |                    |                     |                     |                                    |
| Output at basic prices                              | 253,783.0          | 278,112.2          | 296,750.5           | 265,896.6           | 301,520.7                          |
| Intermediate consumption                            | 49,328.0           | 52,322.5           | 55,884.0            | 49,670.6            | 60,322.9                           |
| Value added, gross                                  | 204,455.0          | 225,789.6          | 240,866.5           | 216,226.1           | 241,197.8                          |
| Compensation of employees                           | 103,213.4          | 114,218.3          | 122,698.5           | 123,020.6           | 132,694.0                          |
| Operating surplus/mixed income, gross               | 101,241.6          | 111,571.4          | 118,168.0           | 93,205.5            | 108,503.8                          |
| <b>Less: Financial services indirectly measured</b> |                    |                    |                     |                     |                                    |
| Intermediate consumption                            | 241,384.2          | 215,414.2          | 226,631.1           | 218,991.1           | 241,848.7                          |
| Value added, gross                                  | -241,384.2         | -215,414.2         | -226,631.1          | -218,991.1          | -241,848.7                         |
| All industries at basic prices                      |                    |                    |                     |                     |                                    |
| Output at basic prices                              | 13,286,274.6       | 14,440,159.1       | 15,741,891.6        | 16,210,351.3        | 18,444,795.1                       |
| Intermediate consumption                            | 5,531,951.9        | 5,908,657.4        | 6,370,494.1         | 6,361,997.3         | 7,334,134.7                        |
| Gross value added at basic prices                   | 7,754,322.7        | 8,531,501.7        | 9,371,397.5         | 9,848,354.0         | 11,110,660.5                       |
| Other taxes on production                           | 224,818.9          | 246,468.0          | 260,330.6           | 283,678.9           | 302,885.0                          |
| <b>Less: Subsidies</b>                              |                    |                    |                     |                     |                                    |
| Compensation of employees                           | 2,396,166.1        | 2,694,737.6        | 2,960,366.2         | 3,074,295.3         | 3,357,957.9                        |
| Gross operating surplus/mixed income                | 5,133,337.7        | 5,590,296.1        | 6,150,700.7         | 6,490,379.7         | 7,449,817.6                        |
| <b>Total economy</b>                                |                    |                    |                     |                     |                                    |
| Taxes on products                                   | 729,073.8          | 808,804.8          | 866,329.8           | 867,679.6           | 987,540.0                          |
| <b>Subsidies on products</b>                        |                    |                    |                     |                     |                                    |
| <b>GDP at market prices</b>                         | <b>8,483,396.5</b> | <b>9,340,306.5</b> | <b>10,237,727.2</b> | <b>10,716,033.6</b> | <b>12,098,200.5</b>                |

\* Provisional

^ Revised

**2.20.** The components of expenditure on GDP at current prices and their respective shares to GDP at market prices are shown in Table 2.7 and Table 2.8, respectively. Gross domestic expenditure increased from KSh 11,550.7 billion in 2020 to KSh 13,058.0 billion in 2021. The share of private consumption

remained dominant over the five-year period. Government final consumption expenditure increased by 9.7 per cent to stand at KSh 1,466.4 billion in 2021. The contribution of Gross Fixed Capital Formation (GFCF) to the overall GDP increased by 0.2 percentage points to stand at 19.6 per cent in 2021.

**Table 2.7: Expenditure on the Gross Domestic Product, 2017-2021**

| Expenditure category                                | 2017               | 2018               | 2019*               | 2020*               | 2021*               | Current Prices - KSh Million |
|---|--------------------|--------------------|---------------------|---------------------|---------------------|------------------------------|
| Government final consumption expenditure            | 1,046,433.6        | 1,153,405.5        | 1,246,013.1         | 1,336,975.5         | 1,466,387.1         |                              |
| Private final consumption expenditure               | 6,495,722.0        | 7,099,419.0        | 7,818,862.0         | 7,988,961.5         | 9,023,553.0         |                              |
| Final consumption expenditure by NPISH <sup>2</sup> | 113,943.1          | 102,229.3          | 107,458.7           | 115,540.7           | 112,129.1           |                              |
| Gross fixed capital formation                       | 1,687,832.9        | 1,783,811.4        | 1,941,233.8         | 2,073,889.9         | 2,371,134.3         |                              |
| Changes in inventories                              | 65,133.2           | 25,965.2           | 38,930.4            | 35,357.9            | 84,747.5            |                              |
| Gross domestic expenditure                          | 9,409,064.7        | 10,164,830.3       | 11,152,498.0        | 11,550,725.5        | 13,057,950.9        |                              |
| Exports of goods and services                       | 1,080,501.3        | 1,171,459.0        | 1,169,967.1         | 1,032,975.6         | 1,278,675.1         |                              |
| Imports of goods and services                       | 1,973,102.0        | 2,042,984.6        | 2,081,480.4         | 1,885,418.3         | 2,431,743.0         |                              |
| Discrepancy <sup>1</sup>                            | -33,067.9          | 47,002.3           | -3,257.7            | 17,751.2            | 193,316.9           |                              |
| <b>Gross domestic product at market prices</b>      | <b>8,483,396.0</b> | <b>9,340,307.0</b> | <b>10,237,727.0</b> | <b>10,716,034.0</b> | <b>12,098,200.0</b> |                              |

<sup>1</sup> Difference between GDP production approach and GDP expenditure approach

<sup>2</sup> Non Profit Institutions Serving Households

\* Provisional

<sup>\*</sup> Revised

**Table 2.8: Expenditure on the Gross Domestic Product, 2017-2021**

| Expenditure category                           | 2017         | 2018         | 2019*        | 2020*        | 2021*        | Percentage contribution to GDP |
|--|--------------|--------------|--------------|--------------|--------------|--------------------------------|
| Government final consumption expenditure       | 12.3         | 12.3         | 12.2         | 12.5         | 12.1         |                                |
| Private final consumption expenditure          | 76.6         | 76.0         | 76.4         | 74.6         | 74.6         |                                |
| Final consumption expenditure by NPISH         | 1.3          | 1.1          | 1.0          | 1.1          | 0.9          |                                |
| Gross fixed capital formation                  | 19.9         | 19.1         | 19.0         | 19.4         | 19.6         |                                |
| Changes in inventories                         | 0.8          | 0.3          | 0.4          | 0.3          | 0.7          |                                |
| Gross domestic expenditure                     | 110.9        | 108.8        | 108.9        | 107.8        | 107.9        |                                |
| Exports of goods and services                  | 12.7         | 12.5         | 11.4         | 9.6          | 10.6         |                                |
| Imports of goods and services                  | 23.3         | 21.9         | 20.3         | 17.6         | 20.1         |                                |
| Discrepancy                                    | -0.4         | 0.5          | 0.0          | 0.2          | 1.6          |                                |
| <b>Gross domestic product at market prices</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |                                |

\* Provisional

<sup>\*</sup> Revised

**2.21.** The components of GDP valued at 2016 prices, that show how supply of resources generated in the economy are utilized as either final consumption expenditure or assets, are presented in Table 2.9 while Table 2.10 shows the annual percentage changes for the period 2017-2021. Gross domestic expenditure increased by 7.5 per cent in 2021 from 0.9 per cent

contraction reported in 2020, mainly occasioned by increase in the real private consumption and real Gross Fixed Capital Formation (GFCCF) in 2021. The real value of exports and imports of goods and services recovered from a contraction of 8.8 per cent and 9.2 per cent to register growths of 12.9 per cent and 18.9 per cent, respectively during the review period.

**Table 2.9: Expenditure on the Gross Domestic Product, 2017-2021**

| Expenditure category                           | 2017               | 2018               | 2019*              | 2020*              | 2021*              |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Government final consumption expenditure       | 1,017,294.1        | 1,088,333.0        | 1,149,604.0        | 1,184,313.6        | 1,252,252.6        |
| Private final consumption expenditure          | 5,977,927.0        | 6,281,580.0        | 6,596,982.5        | 6,427,462.0        | 6,840,807.0        |
| Final consumption expenditure by NPISH         | 109,418.7          | 93,682.4           | 97,100.5           | 101,100.1          | 92,599.2           |
| Gross fixed capital formation                  | 1,590,554.9        | 1,584,335.3        | 1,655,651.0        | 1,696,805.9        | 1,881,194.4        |
| Changes in inventories                         | 54,910.4           | 22,633.4           | 35,704.1           | 35,258.9           | 83,752.0           |
| Gross domestic expenditure                     | 8,750,105.0        | 9,070,564.0        | 9,535,042.0        | 9,444,940.5        | 10,150,605.2       |
| Exports of goods and services                  | 995,953.8          | 1,063,400.8        | 1,029,821.9        | 938,956.3          | 1,060,427.1        |
| Imports of goods and services                  | 1,845,374.5        | 1,871,835.1        | 1,906,360.5        | 1,730,361.0        | 2,057,942.1        |
| Discrepancy <sup>1</sup>                       | -16,868.3          | 65,474.3           | 98,442.6           | 81,504.2           | 238,593.8          |
| <b>Gross domestic product at market prices</b> | <b>7,883,816.0</b> | <b>8,327,604.0</b> | <b>8,756,946.0</b> | <b>8,735,040.0</b> | <b>9,391,684.0</b> |

<sup>1</sup> Difference between GDP production approach and GDP expenditure approach

\* Provisional

\* Revised

**Table 2.10: Expenditure on the Gross Domestic Product, 2017-2021**

| Expenditure category                     | 2017 | 2018  | 2019* | 2020* | 2021* | Percentage Changes (growth) |
|--|------|-------|-------|-------|-------|-----------------------------|
| Government final consumption expenditure | 6.2  | 7.0   | 5.6   | 3.0   | 5.7   |                             |
| Private final consumption expenditure    | 4.8  | 5.1   | 5.0   | -2.6  | 6.4   |                             |
| Final consumption expenditure by NPISH   | 11.4 | -14.4 | 3.6   | 4.1   | -8.4  |                             |
| Gross fixed capital formation            | 8.0  | -0.4  | 4.5   | 2.5   | 10.9  |                             |
| Gross domestic expenditure               | 6.3  | 3.7   | 5.1   | -0.9  | 7.5   |                             |
| Exports of goods and services            | -1.0 | 6.8   | -3.2  | -8.8  | 12.9  |                             |
| Imports of goods and services            | 12.4 | 1.4   | 1.8   | -9.2  | 18.9  |                             |
| Gross domestic product at market prices  | 3.8  | 5.6   | 5.2   | -0.3  | 7.5   |                             |

\* Provisional

\* Revised

**2.22.** Table 2.11a and Table 2.11b provides details of the value of additions to fixed assets by type at current prices for the period 2017-2021 while Table 2.11b shows the shares of the various types of fixed assets during the period under review. The value of additions to fixed capital (Gross Fixed Capital Formation) in current prices increased from KSh

2,073.9 billion in 2020 to KSh 2,371.1 billion in 2021. The value of additions to fixed assets of transport equipment increased by 42.2 per cent to KSh 311.1 billion in 2021. In the review period, dwellings and other structures contributed 32.9 per cent and 26.7 per cent to the overall GFCF, respectively.

**Table 2.11a: Gross Fixed Capital Formation, 2017-2021**

| Type of Asset   | 2017      | 2018      | 2019*     | 2020*     | 2021*     |
|---|-----------|-----------|-----------|-----------|-----------|
| Dwellings   | 438,881.2 | 494,867.3 | 544,309.8 | 671,668.6 | 780,955.6 |
| Buildings other than dwellings                          | 144,429.4 | 162,595.5 | 178,414.9 | 218,279.1 | 252,006.4 |
| Other structures  | 424,860.6 | 483,791.2 | 561,004.4 | 598,053.8 | 632,096.1 |
| Transport equipment                                     | 257,057.2 | 242,356.0 | 273,876.5 | 218,783.9 | 311,143.1 |
| ICT equipment   | 108,145.9 | 88,813.1  | 95,562.7  | 92,961.1  | 98,243.6  |
| Other machinery and equipment                           | 270,777.6 | 270,493.2 | 259,340.0 | 237,636.1 | 263,861.6 |
| Animal resources yielding repeat products               | 8,741.2   | 13,623.7  | 8,728.4   | 17,829.3  | 16,651.6  |
| Tree, crop and plant resources yielding repeat products | 8,922.0   | 9,614.9   | 10,001.4  | 10,301.3  | 9,466.3   |
| Intellectual property products                          | 26,017.9  | 17,656.6  | 9,995.6   | 8,376.6   | 6,709.9   |
| Total   | 1,687,833 | 1,783,811 | 1,941,234 | 2,073,890 | 2,371,134 |

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\* Revised

**Table 2.11b: Gross Fixed Capital Formation, 2017-2021**

| Type of Asset  | 2017         | 2018         | 2019*        | 2020*        | 2021*        |
|--|--------------|--------------|--------------|--------------|--------------|
| Dwellings  | 26.0         | 27.7         | 28.0         | 32.4         | 32.9         |
| Buildings other than dwellings                         | 8.6          | 9.1          | 9.2          | 10.5         | 10.6         |
| Other structures                                       | 25.2         | 27.1         | 28.9         | 28.8         | 26.7         |
| Transport equipment                                    | 15.2         | 13.6         | 14.1         | 10.5         | 13.1         |
| ICT equipment  | 6.4          | 5.0          | 4.9          | 4.5          | 4.1          |
| Other machinery and equipment                          | 16.0         | 15.2         | 13.4         | 11.5         | 11.1         |
| Animal resources yielding repeat products              | 0.5          | 0.8          | 0.4          | 0.9          | 0.7          |
| Tree crop and plant resources yielding repeat products | 0.5          | 0.5          | 0.5          | 0.5          | 0.4          |
| Intellectual property products                         | 1.5          | 1.0          | 0.5          | 0.4          | 0.3          |
| <b>Total</b>   | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |

\* Provisional

\* Revised

**2.23.** Table 2.12a and 2.12b presents the real value of GFCF components and the percentage changes for the period 2017-2021. Real GFCF grew by 10.9 per cent in 2021 to stand at KSh 1,881.2 billion. Generally, real value of additions to Tree, crop and plant resources yielding repeat products, Intellectual

property products and Animal resources yielding repeat products contracted during the period under review. However, growth in the value of Transport equipment, ICT equipment and Other machinery and equipment improved during the review period.

**Table 2.12a: Gross Fixed Capital Formation, 2017-2021**

| Type of Asset  | 2017               | 2018               | 2019*              | 2020*              | 2021*              |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
| Dwellings  | 419,096.0          | 441,612.0          | 464,649.9          | 540,335.3          | 599,064.5          |
| Buildings other than dwellings                         | 139,951.2          | 147,587.3          | 155,435.6          | 180,934.0          | 200,445.7          |
| Other structures                                       | 373,632.3          | 392,376.6          | 424,843.7          | 436,029.5          | 442,663.8          |
| Transport equipment                                    | 249,659.2          | 232,650.0          | 259,773.0          | 206,323.4          | 295,039.4          |
| ICT equipment  | 103,509.2          | 80,868.6           | 87,675.9           | 86,014.6           | 90,511.9           |
| Other machinery and equipment                          | 261,448.0          | 250,929.3          | 237,171.6          | 214,954.9          | 224,977.1          |
| Animal resources yielding repeat products              | 8,390.4            | 12,428.4           | 8,016.5            | 15,707.0           | 15,147.2           |
| Tree crop and plant resources yielding repeat products | 8,406.3            | 8,623.1            | 8,669.6            | 8,608.7            | 7,450.3            |
| Intellectual property products                         | 26,462.4           | 17,260.1           | 9,415.2            | 7,898.6            | 5,894.4            |
| <b>Total</b>   | <b>1,590,554.9</b> | <b>1,584,335.2</b> | <b>1,655,651.0</b> | <b>1,696,805.8</b> | <b>1,881,194.4</b> |

\* Provisional

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**Table 2.12b: Gross Fixed Capital Formation, 2017-2021**

| Type of Asset  | 2017       | 2018        | 2019*      | 2020*      | 2021*       | Percentage Changes (growth) |
|--|------------|-------------|------------|------------|-------------|-----------------------------|
| Dwellings  | 4.3        | 5.4         | 5.2        | 16.3       | 10.9        |                             |
| Buildings other than dwellings                         | 4.4        | 5.5         | 5.3        | 16.4       | 10.8        |                             |
| Other structures                                       | 12.6       | 5.0         | 8.3        | 2.6        | 1.5         |                             |
| Transport equipment                                    | 19.5       | -6.8        | 11.7       | -20.6      | 43.0        |                             |
| ICT equipment  | 8.8        | -21.9       | 8.4        | -1.9       | 5.2         |                             |
| Other machinery and equipment                          | 6.1        | -4.0        | -5.5       | -9.4       | 4.7         |                             |
| Animal resources yielding repeat products              | -52.0      | 48.1        | -35.5      | 95.9       | -3.6        |                             |
| Tree crop and plant resources yielding repeat products | 1.7        | 2.6         | 0.5        | -0.7       | -13.5       |                             |
| Intellectual property products                         | -6.9       | -34.8       | -45.5      | -16.1      | -25.4       |                             |
| <b>Total</b>   | <b>8.0</b> | <b>-0.4</b> | <b>4.5</b> | <b>2.5</b> | <b>10.9</b> |                             |

\* Provisional

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**2.24.** The relationship between the GDP and Gross National Income (GNI) for the period 2017 to 2021 is shown in Tables 2.13 and 2.14. The GNI valued at current prices grew by 12.9 per cent to stand at KSh 12,098.2 billion in 2021 from KSh 10,716.0 billion in 2020. Gross domestic product per capita increased from KSh 220,132.2 in 2020 to KSh 245,145.3 in 2021. Primary incomes receivable from the rest of the

world increased from KSh 5.6 billion in 2020 to KSh 6.8 billion in the year under review. Current transfers receivable from the rest of the world expanded by 28.3 per cent to stand at KSh 687.0 billion in 2021. Gross National Disposable Income increased from KSh 11,058.4 billion in 2020 to KSh 12,588.2 billion in 2021.

**Table 2.13: Gross Domestic Product and Gross National Income, 2017-2021**

|   | 2017        | 2018        | 2019*        | 2020*        | 2021*        | <i>Current Prices - KSh Million</i> |
|---|-------------|-------------|--------------|--------------|--------------|-------------------------------------|
| <b>Current Prices, KSh Million</b>      |             |             |              |              |              |                                     |
| Compensation of employees               | 2,396,166.0 | 2,694,737.8 | 2,960,366.3  | 3,074,295.3  | 3,357,957.8  |                                     |
| Consumption of fixed capital            | 1,095,186.3 | 1,246,988.4 | 1,238,480.9  | 1,297,551.9  | 1,379,989.0  |                                     |
| Net operating surplus                   | 4,262,969.9 | 4,589,776.1 | 5,172,550.1  | 5,476,507.3  | 6,372,713.3  |                                     |
| Taxes on products                       | 729,073.8   | 808,804.8   | 866,329.8    | 867,679.6    | 987,540.0    |                                     |
| Gross domestic product at market prices | 8,483,396.0 | 9,340,307.0 | 10,237,727.0 | 10,716,034.0 | 12,098,200.0 |                                     |
| <b>Primary incomes</b>                  |             |             |              |              |              |                                     |
| Receivable from the rest of the world   | 14,874.8    | 21,621.5    | 22,174.0     | 5,642.7      | 6,750.5      |                                     |
| Payable to rest of the world            | -176,303.3  | -162,501.6  | -185,849.8   | -190,386.7   | -188,292.9   |                                     |
| Gross national income at market prices  | 8,321,967.6 | 9,199,426.9 | 10,074,051.2 | 10,531,290.0 | 11,916,657.6 |                                     |
| <b>Current transfers</b>                |             |             |              |              |              |                                     |
| Receivable from the rest of the world   | 466,247.6   | 511,848.0   | 544,457.2    | 535,310.5    | 687,003.2    |                                     |
| Payable to rest of the world            | -5,787.4    | -4,850.5    | -5,574.5     | -8,202.5     | -15,414.8    |                                     |
| Gross national disposable income        | 8,782,427.8 | 9,706,424.5 | 10,612,933.9 | 11,058,398.0 | 12,588,246.1 |                                     |
| <b>Per capita, KSh</b>                  |             |             |              |              |              |                                     |
| Gross domestic product at market prices | 187,271.4   | 201,299.7   | 215,078.3    | 220,132.2    | 245,145.3    |                                     |
| Gross national income at market prices  | 183,707.9   | 198,263.5   | 211,639.7    | 216,337.1    | 241,466.8    |                                     |
| <b>Constant prices</b>                  |             |             |              |              |              |                                     |
| GDP at market prices, KSh Million       | 7,883,816.0 | 8,327,604.0 | 8,756,946.0  | 8,735,040.0  | 9,391,684.0  |                                     |
| Per capita                              | 174,035.7   | 179,474.2   | 183,969.5    | 179,438.0    | 190,303.3    |                                     |
| - Annual percentage change              | 1.5         | 3.1         | 2.5          | -2.5         | 6.1          |                                     |

\* Provisional

<sup>\*</sup> Revised

**Table 2.14: National Disposable Income and Saving, 2017-2021**

|  | <i>Current Prices - KSh Million</i> |                  |                  |                  |                  |
|--|-------------------------------------|------------------|------------------|------------------|------------------|
|  | <b>2017</b>                         | <b>2018</b>      | <b>2019</b>      | <b>2020+</b>     | <b>2021*</b>     |
| Gross national disposable income           | 8,782,427.8                         | 9,706,424.5      | 10,612,933.9     | 11,058,398.0     | 12,588,246.1     |
| Consumption of fixed capital               | 1,095,186.3                         | 1,246,988.4      | 1,238,480.9      | 1,297,551.9      | 1,379,989.0      |
| Net national disposable income             | 7,687,241.6                         | 8,459,436.1      | 9,374,453.1      | 9,760,846.2      | 11,208,257.1     |
| Final consumption expenditure              | 7,656,098.6                         | 8,355,053.8      | 9,172,333.8      | 9,441,477.7      | 10,602,069.2     |
| Private                                    | 6,495,722.0                         | 7,099,419.0      | 7,818,862.0      | 7,988,961.5      | 9,023,553.0      |
| Non-Profit Institutions Serving Households | 113,943.1                           | 102,229.3        | 107,458.7        | 115,540.7        | 112,129.1        |
| General government                         | 1,046,433.6                         | 1,153,405.5      | 1,246,013.1      | 1,336,975.5      | 1,466,387.1      |
| Saving, net                                |                                     |                  |                  |                  |                  |
| Financing of capital formation             |                                     |                  |                  |                  |                  |
| Saving, net                                | 31,142.9                            | 104,382.3        | 202,119.2        | 319,368.5        | 606,187.9        |
| Capital transfers from abroad, net         | 19,046.0                            | 26,593.0         | 21,146.0         | 14,023.0         | 21,450.6         |
| Total                                      | 50,188.9                            | 130,975.3        | 223,265.2        | 333,391.5        | 627,638.5        |
| Gross fixed capital formation              | 1,687,832.9                         | 1,783,811.4      | 1,941,233.8      | 2,073,889.9      | 2,371,134.3      |
| Consumption of fixed capital               | -1,095,186.3                        | -1,246,988.4     | -1,238,480.9     | -1,297,551.9     | -1,379,989.0     |
| Changes in inventories                     | 65,133.2                            | 25,965.2         | 38,930.4         | 35,357.9         | 84,747.5         |
| Net lending (+) / Net borrowing(-)         | -607,590.9                          | -431,812.9       | -518,418.0       | -478,304.4       | -448,254.3       |
| <b>Total</b>                               | <b>50,188.9</b>                     | <b>130,975.3</b> | <b>223,265.2</b> | <b>333,391.5</b> | <b>627,638.5</b> |

*\* Provisional**\* Revised*

**Table 2.15 Gross Domestic Product by Activity**

| Year  | Quarter | Agriculture | Mining and quarrying | Manufacturing | Electricity and water supply | Construction | Wholesale and retail trade | Current prices – KSh million  |                       |                               |                       |
|-------|---------|-------------|----------------------|---------------|------------------------------|--------------|----------------------------|-------------------------------|-----------------------|-------------------------------|-----------------------|
|       |         |             |                      |               |                              |              |                            | Accommodation & Food services | Transport and storage | Information and communication | Financial & insurance |
| 2017  |         | 1,772,490   | 71,675               | 741,376       | 216,008                      | 455,833      | 713,561                    | 85,252                        | 862,956               | 223,497                       | 634,089               |
| 2018  |         | 1,897,475   | 68,909               | 785,369       | 217,169                      | 545,654      | 762,968                    | 100,019                       | 1,056,264             | 240,120                       | 622,625               |
| 2019  |         | 2,135,709   | 72,769               | 809,253       | 220,628                      | 630,653      | 837,918                    | 119,581                       | 1,202,830             | 257,419                       | 667,702               |
| 2020  |         | 2,424,075   | 76,327               | 815,666       | 222,920                      | 750,153      | 866,502                    | 77,813                        | 1,151,833             | 274,711                       | 724,289               |
| 2021  |         | 2,713,414   | 91,849               | 876,420       | 240,389                      | 847,422      | 957,839                    | 119,865                       | 1,383,555             | 294,379                       | 856,513               |
| 2017  | 1       | 455,717     | 18,853               | 185,976       | 52,926                       | 105,861      | 170,280                    | 19,803                        | 203,224               | 53,646                        | 148,549               |
| 2     | 525,600 | 17,227      | 178,513              | 53,536        | 110,531                      | 170,796      | 19,925                     | 207,655                       | 51,430                | 155,550                       |                       |
| 3     | 414,509 | 17,059      | 178,723              | 54,655        | 116,065                      | 185,667      | 21,568                     | 227,799                       | 58,806                | 161,469                       |                       |
| 4     | 376,665 | 18,536      | 198,164              | 54,891        | 123,376                      | 186,817      | 23,957                     | 224,278                       | 59,614                | 168,522                       |                       |
| 2018  | 1       | 490,237     | 18,903               | 199,902       | 53,780                       | 128,305      | 189,364                    | 24,266                        | 249,125               | 56,499                        | 147,452               |
| 2     | 553,221 | 17,210      | 189,065              | 55,318        | 130,708                      | 186,473      | 23,254                     | 260,081                       | 55,110                | 149,766                       |                       |
| 3     | 447,489 | 15,751      | 189,071              | 53,864        | 141,169                      | 194,297      | 24,069                     | 274,585                       | 62,650                | 154,836                       |                       |
| 4     | 406,528 | 17,045      | 207,331              | 54,207        | 145,472                      | 192,834      | 28,431                     | 272,473                       | 65,861                | 170,571                       |                       |
| 2019  | 1       | 543,176     | 18,402               | 207,415       | 54,487                       | 152,755      | 202,261                    | 28,733                        | 294,080               | 61,936                        | 153,577               |
| 2     | 589,054 | 18,048      | 200,283              | 55,866        | 155,731                      | 202,674      | 25,842                     | 311,451                       | 58,629                | 160,324                       |                       |
| 3     | 515,988 | 16,637      | 195,306              | 57,061        | 165,404                      | 213,780      | 27,734                     | 306,673                       | 67,245                | 170,504                       |                       |
| 4     | 487,491 | 19,682      | 206,250              | 53,214        | 156,764                      | 219,202      | 37,271                     | 290,626                       | 69,609                | 183,296                       |                       |
| 2020+ | 1       | 662,775     | 22,706               | 209,324       | 54,508                       | 175,745      | 211,081                    | 31,906                        | 288,150               | 67,398                        | 168,894               |
| 2     | 672,951 | 21,894      | 196,895              | 52,285        | 178,799                      | 208,787      | 15,890                     | 259,809                       | 61,859                | 167,783                       |                       |
| 3     | 495,456 | 15,684      | 189,613              | 56,891        | 191,306                      | 205,730      | 13,333                     | 296,246                       | 70,805                | 180,365                       |                       |
| 4     | 592,893 | 16,044      | 219,834              | 59,235        | 204,303                      | 240,904      | 16,685                     | 307,628                       | 74,648                | 207,246                       |                       |
| 2021* | 1       | 715,399     | 18,098               | 219,393       | 58,721                       | 198,954      | 241,190                    | 20,996                        | 322,710               | 71,332                        | 196,707               |
| 2     | 746,950 | 24,765      | 211,317              | 56,903        | 204,341                      | 227,271      | 27,372                     | 345,215                       | 71,037                | 209,959                       |                       |
| 3     | 582,422 | 21,593      | 212,238              | 61,970        | 221,019                      | 228,426      | 30,621                     | 371,277                       | 73,331                | 214,152                       |                       |
| 4     | 668,643 | 27,392      | 233,471              | 62,794        | 223,108                      | 260,952      | 40,877                     | 344,352                       | 78,680                | 235,694                       |                       |

+ Revised  
\* Provisional

**Table 2.15: Gross Domestic Product by Activity (Continued)**

| Year  | Quarter | Public administration | Professional, admin-<br>istrative services | Real estate | Education | Health  | Other services | FISIM     | All indust.<br>at basic<br>prices | Current prices – KSh million |                      |
|-------|---------|-----------------------|--|-------------|-----------|---------|----------------|-----------|-----------------------------------|------------------------------|----------------------|
|       |         |                       |  |             |           |         |                |           |                                   | Taxes on products            | GDP at market prices |
| 2017  |         | 442,962               | 237,750                                    | 792,515     | 365,477   | 175,811 | 204,455        | -241,384  | 7,754,323                         | 729,074                      | 8,483,396            |
| 2018  |         | 493,180               | 261,461                                    | 881,622     | 399,515   | 188,778 | 225,790        | -215,414  | 8,531,502                         | 808,805                      | 9,340,307            |
| 2019  |         | 541,367               | 284,757                                    | 946,732     | 431,876   | 197,969 | 240,867        | -226,631  | 9,371,397                         | 866,330                      | 10,237,727           |
| 2020  |         | 592,610               | 252,068                                    | 995,910     | 413,026   | 213,215 | 216,226        | -218,991  | 9,848,354                         | 867,680                      | 10,716,034           |
| 2021  |         | 632,165               | 277,208                                    | 1,072,543   | 515,129   | 232,623 | 241,198        | -241,849  | 11,110,660                        | 987,540                      | 12,098,200           |
| 2017  | 1       | 104,066               | 55,293                                     | 189,730     | 92,612    | 38,731  | 49,803         | -59,713   | 1,885,355                         | 180,528                      | 2,065,883            |
| 2     | 115,038 | 59,639                | 195,199                                    | 91,551      | 42,266    | 49,789  | -60,827        | 1,983,418 | 178,237                           | 2,161,655                    | 2,103,456            |
| 3     | 110,165 | 61,857                | 200,864                                    | 91,134      | 45,055    | 52,167  | -60,495        | 1,937,067 | 177,527                           | 2,114,594                    | 2,144,556            |
| 4     | 113,693 | 60,960                | 206,723                                    | 90,180      | 49,758    | 52,695  | -60,348        | 1,948,483 | 192,782                           | 2,141,264                    | 2,191,104            |
| 2018  | 1       | 114,705               | 60,357                                     | 212,776     | 101,752   | 42,764  | 54,548         | -53,058   | 2,091,678                         | 193,552                      | 2,285,230            |
| 2     | 127,754 | 65,292                | 218,249                                    | 101,607     | 46,240    | 54,978  | -51,893        | 2,182,434 | 199,461                           | 2,381,895                    | 2,317,288            |
| 3     | 123,897 | 66,800                | 223,142                                    | 99,962      | 47,842    | 57,589  | -53,278        | 2,123,734 | 200,580                           | 2,324,314                    | 2,362,971            |
| 4     | 126,824 | 69,013                | 227,454                                    | 96,194      | 51,931    | 58,675  | -57,185        | 2,133,656 | 215,212                           | 2,348,868                    | 2,401,615            |
| 2019  | 1       | 125,089               | 65,835                                     | 231,811     | 95,684    | 45,109  | 59,909         | -54,015   | 2,286,245                         | 196,866                      | 2,483,110            |
| 2     | 140,935 | 71,216                | 235,397                                    | 97,226      | 48,600    | 59,834  | -53,135        | 2,377,975 | 218,351                           | 2,596,326                    | 2,526,082            |
| 3     | 135,858 | 71,413                | 238,476                                    | 110,441     | 49,953    | 61,233  | -56,051        | 2,347,655 | 215,061                           | 2,562,716                    | 2,615,509            |
| 4     | 139,485 | 76,293                | 241,047                                    | 128,524     | 54,306    | 59,891  | -63,430        | 2,359,523 | 236,052                           | 2,555,574                    | 2,646,152            |
| 2020+ | 1       | 133,691               | 70,854                                     | 243,111     | 117,108   | 46,662  | 60,191         | -51,642   | 2,512,463                         | 228,005                      | 2,740,468            |
| 2     | 150,844 | 54,950                | 246,283                                    | 85,422      | 54,593    | 48,486  | -51,507        | 2,426,021 | 188,278                           | 2,614,300                    | 2,546,368            |
| 3     | 150,848 | 59,318                | 250,564                                    | 96,245      | 54,426    | 55,647  | -53,330        | 2,329,148 | 210,957                           | 2,540,106                    | 2,604,933            |
| 4     | 157,227 | 66,946                | 255,953                                    | 114,251     | 57,534    | 51,903  | -62,513        | 2,580,722 | 240,439                           | 2,821,161                    | 2,863,047            |
| 2021* | 1       | 145,254               | 61,108                                     | 262,450     | 134,442   | 49,475  | 56,153         | -55,187   | 2,717,196                         | 245,422                      | 2,962,618            |
| 2     | 164,302 | 66,508                | 267,324                                    | 118,062     | 61,594    | 61,525  | -55,870        | 2,808,576 | 237,862                           | 3,046,438                    | 2,971,829            |
| 3     | 159,366 | 71,354                | 270,572                                    | 127,199     | 57,630    | 64,293  | -59,214        | 2,708,248 | 239,061                           | 2,947,309                    | 3,035,180            |
| 4     | 163,243 | 78,238                | 272,197                                    | 135,425     | 63,924    | 59,226  | -71,577        | 2,876,640 | 265,194                           | 3,141,835                    | 3,175,428            |

\* Revised  
\* Provisional

**Table 2.16 Gross Domestic Product by Activity**

| <b>Year</b> | <b>Quarter</b> | <b>Agriculture</b> | <b>Mining and quarrying</b> | <b>Manufacturing</b> | <b>Electricity &amp; water supply</b> | <b>Construction</b> | <b>Wholesale and retail trade</b> | <b>Accommodation &amp; Food Services</b> | <b>Transport and storage</b> | <b>Information and communication</b> | <b>Constant 2016 Prices –KSh Million</b> |
|-------------|----------------|--------------------|-----------------------------|----------------------|---------------------------------------|---------------------|-----------------------------------|--|------------------------------|--------------------------------------|--|
| 2017        |                | 1,501,817          | 83,907                      | 712,807              | 206,950                               | 413,717             | 655,259                           | 76,883                                   | 801,274                      | 223,445                              | 612,981                                  |
| 2018        |                | 1,587,784          | 79,986                      | 738,305              | 214,422                               | 438,962             | 694,215                           | 88,863                                   | 849,165                      | 241,178                              | 629,731                                  |
| 2019        |                | 1,630,607          | 83,386                      | 757,794              | 218,146                               | 470,526             | 730,922                           | 101,584                                  | 902,898                      | 257,959                              | 680,556                                  |
| 2020        |                | 1,706,221          | 87,952                      | 754,617              | 219,528                               | 517,977             | 727,550                           | 53,114                                   | 832,068                      | 274,200                              | 721,033                                  |
| 2021        |                | 1,703,335          | 103,827                     | 807,003              | 230,409                               | 552,076             | 784,736                           | 81,004                                   | 892,262                      | 298,324                              | 811,390                                  |
| 2017        | 1              | 406,302            | 20,945                      | 178,428              | 50,407                                | 101,673             | 162,341                           | 18,784                                   | 198,495                      | 53,257                               | 142,407                                  |
|             | 2              | 422,846            | 21,254                      | 175,185              | 51,496                                | 101,694             | 153,316                           | 18,350                                   | 195,367                      | 50,790                               | 147,129                                  |
|             | 3              | 345,059            | 20,530                      | 174,647              | 52,237                                | 104,346             | 166,363                           | 19,043                                   | 207,907                      | 59,051                               | 156,365                                  |
|             | 4              | 327,609            | 21,179                      | 184,547              | 52,810                                | 106,004             | 173,238                           | 20,706                                   | 199,505                      | 60,347                               | 167,079                                  |
| 2018        | 1              | 423,098            | 21,870                      | 187,632              | 52,487                                | 108,357             | 170,690                           | 21,935                                   | 206,945                      | 57,093                               | 146,213                                  |
|             | 2              | 445,341            | 20,268                      | 180,342              | 53,065                                | 108,842             | 163,064                           | 21,264                                   | 208,400                      | 54,870                               | 148,476                                  |
|             | 3              | 366,861            | 18,196                      | 179,287              | 54,353                                | 112,286             | 176,077                           | 21,126                                   | 218,992                      | 63,589                               | 157,455                                  |
|             | 4              | 352,484            | 19,653                      | 191,045              | 54,517                                | 109,477             | 184,383                           | 24,537                                   | 214,827                      | 65,627                               | 177,587                                  |
| 2019        | 1              | 443,440            | 21,596                      | 192,686              | 54,066                                | 114,925             | 178,426                           | 25,339                                   | 221,046                      | 62,132                               | 156,897                                  |
|             | 2              | 459,892            | 21,679                      | 188,246              | 53,858                                | 116,807             | 173,385                           | 23,724                                   | 226,661                      | 58,621                               | 162,603                                  |
|             | 3              | 370,177            | 19,192                      | 184,179              | 55,181                                | 121,192             | 185,461                           | 23,642                                   | 229,166                      | 67,725                               | 174,236                                  |
|             | 4              | 357,099            | 20,920                      | 192,683              | 55,041                                | 117,601             | 193,649                           | 28,878                                   | 226,025                      | 69,481                               | 186,820                                  |
| 2020+       | 1              | 463,601            | 22,997                      | 195,345              | 54,879                                | 125,191             | 188,219                           | 21,764                                   | 225,777                      | 66,959                               | 166,611                                  |
|             | 2              | 496,572            | 22,528                      | 178,073              | 51,453                                | 123,779             | 166,845                           | 10,147                                   | 188,488                      | 61,489                               | 167,801                                  |
|             | 3              | 354,080            | 20,260                      | 180,176              | 55,635                                | 133,588             | 176,083                           | 8,977                                    | 205,822                      | 71,053                               | 180,026                                  |
|             | 4              | 391,968            | 22,167                      | 201,024              | 57,561                                | 135,418             | 196,402                           | 12,226                                   | 211,981                      | 74,699                               | 206,595                                  |
| 2021*       | 1              | 465,677            | 25,463                      | 199,445              | 56,879                                | 133,762             | 202,424                           | 14,572                                   | 207,885                      | 73,690                               | 186,278                                  |
|             | 2              | 494,225            | 24,983                      | 198,150              | 55,153                                | 132,229             | 182,160                           | 19,285                                   | 223,579                      | 71,982                               | 196,810                                  |
|             | 3              | 356,169            | 23,576                      | 198,496              | 59,194                                | 142,539             | 187,293                           | 20,421                                   | 235,067                      | 73,977                               | 201,217                                  |
|             | 4              | 387,264            | 29,805                      | 210,910              | 59,184                                | 143,546             | 212,859                           | 26,726                                   | 225,732                      | 78,674                               | 227,085                                  |

**+ Revised**  
**\* Provisional**

**Table 2.16: Gross Domestic Product by Activity (Continued)**

| Year  | Quarter | Public administration | Professional, admin and support services | Real estate | Education | Health services | Other services | FISM      | All indust. at basic prices | Constant 2016 Prices –KSh Million |                      |
|-------|---------|-----------------------|--|-------------|-----------|-----------------|----------------|-----------|-----------------------------|-----------------------------------|----------------------|
|       |         |                       |  |             |           |                 |                |           |                             | Taxes on products                 | GDP at market prices |
| 2017  |         | 426,049               | 231,122                                  | 753,420     | 367,395   | 166,956         | 191,249        | -245,063  | 7,180,165                   | 705,356                           | 7,885,521            |
| 2018  |         | 459,667               | 247,144                                  | 802,728     | 392,401   | 176,043         | 197,479        | -254,198  | 7,583,875                   | 747,016                           | 8,330,891            |
| 2019  |         | 498,143               | 263,996                                  | 856,588     | 414,661   | 185,702         | 205,954        | -278,418  | 7,981,005                   | 775,941                           | 8,756,946            |
| 2020  |         | 532,794               | 227,925                                  | 891,574     | 376,301   | 196,367         | 175,832        | -273,442  | 8,021,610                   | 713,430                           | 8,735,040            |
| 2021  |         | 562,551               | 240,849                                  | 951,352     | 456,962   | 208,193         | 197,957        | -288,530  | 8,593,701                   | 797,982                           | 9,391,684            |
| 2017  | 1       | 101,827               | 53,782                                   | 184,222     | 91,047    | 37,945          | 47,870         | -57,292   | 1,792,441                   | 172,992                           | 1,965,433            |
| 2     | 111,183 | 57,462                | 186,886                                  | 91,290      | 40,951    | 46,989          | -58,777        | 1,813,409 | 168,319                     | 1,981,729                         | 1,948,859            |
| 3     | 105,339 | 60,230                | 189,687                                  | 92,240      | 42,416    | 48,417          | -62,429        | 1,781,448 | 175,372                     | 1,956,820                         | 1,981,881            |
| 4     | 107,700 | 59,648                | 192,625                                  | 92,818      | 45,645    | 47,974          | -66,566        | 1,792,866 | 188,674                     | 1,981,540                         | 2,005,534            |
| 2018  | 1       | 107,773               | 57,885                                   | 195,701     | 98,630    | 40,005          | 48,578         | -60,428   | 1,884,463                   | 182,979                           | 2,067,442            |
| 2     | 119,262 | 61,509                | 198,924                                  | 97,374      | 43,643    | 48,166          | -59,982        | 1,912,828 | 188,946                     | 2,101,774                         | 2,065,954            |
| 3     | 115,123 | 62,920                | 202,293                                  | 98,095      | 44,520    | 50,019          | -63,847        | 1,877,346 | 183,190                     | 2,060,536                         | 2,092,881            |
| 4     | 117,509 | 64,829                | 205,810                                  | 98,303      | 47,874    | 50,716          | -69,941        | 1,909,238 | 191,901                     | 2,101,139                         | 2,124,102            |
| 2019  | 1       | 115,767               | 61,765                                   | 209,991     | 102,178   | 42,073          | 51,741         | -66,603   | 1,987,463                   | 180,013                           | 2,167,476            |
| 2     | 130,083 | 66,473                | 213,239                                  | 100,591     | 45,961    | 51,448          | -64,533        | 2,028,738 | 198,753                     | 2,227,491                         | 2,187,366            |
| 3     | 124,860 | 66,033                | 215,771                                  | 104,633     | 47,145    | 52,282          | -68,744        | 1,972,132 | 191,300                     | 2,163,432                         | 2,205,694            |
| 4     | 127,433 | 69,725                | 217,588                                  | 107,259     | 50,523    | 50,483          | -78,537        | 1,992,671 | 205,876                     | 2,198,547                         | 2,217,970            |
| 2020+ | 1       | 121,204               | 63,461                                   | 218,690     | 107,101   | 45,073          | 49,855         | -64,103   | 2,072,623                   | 189,951                           | 2,262,574            |
| 2     | 135,895 | 49,512                | 220,812                                  | 79,357      | 50,089    | 39,163          | -64,384        | 1,977,617 | 157,919                     | 2,135,536                         | 2,095,967            |
| 3     | 135,234 | 53,911                | 223,955                                  | 87,772      | 49,197    | 45,018          | -67,247        | 1,913,541 | 174,949                     | 2,088,490                         | 2,138,917            |
| 4     | 140,461 | 61,041                | 228,118                                  | 102,071     | 52,008    | 41,797          | -77,708        | 2,057,829 | 190,611                     | 2,248,440                         | 2,261,048            |
| 2021* | 1       | 129,498               | 55,183                                   | 233,302     | 119,435   | 47,675          | 45,691         | -67,253   | 2,129,608                   | 193,285                           | 2,322,892            |
| 2     | 146,253 | 58,556                | 237,190                                  | 104,458     | 53,211    | 50,446          | -66,182        | 2,182,488 | 187,187                     | 2,369,675                         | 2,325,518            |
| 3     | 141,713 | 61,142                | 239,782                                  | 112,652     | 51,222    | 52,990          | -70,647        | 2,086,804 | 196,886                     | 2,283,690                         | 2,349,931            |
| 4     | 145,087 | 65,967                | 241,078                                  | 120,417     | 56,084    | 48,830          | -84,448        | 2,194,802 | 220,625                     | 2,415,426                         | 2,420,221            |

+ Revised  
\* Provisional

**Table 2.17: Gross Domestic Product by Activity**

| Year  | Quarter | Agriculture | Mining and quarrying | Manufacturing | Electricity and water supply | Construction | Wholesale and retail trade | Accommodation & restaurant | Transport and storage | Information and communication | Financial & insurance |
|-------|---------|-------------|----------------------|---------------|------------------------------|--------------|----------------------------|----------------------------|-----------------------|-------------------------------|-----------------------|
| 2017  |         | -1.3        | 3.2                  | 0.7           | 3.0                          | 6.3          | 4.3                        | 9.4                        | 3.5                   | 8.1                           | 4.1                   |
| 2018  |         | 5.7         | -4.7                 | 3.6           | 3.6                          | 6.1          | 5.9                        | 15.6                       | 6.0                   | 7.9                           | 2.7                   |
| 2019  | 1       | 2.7         | 4.3                  | 2.6           | 1.7                          | 7.2          | 5.3                        | 14.3                       | 6.3                   | 7.0                           | 8.1                   |
| 2020  | 2       | 4.6         | 5.5                  | -0.4          | 0.6                          | 10.1         | -0.5                       | -47.7                      | -7.8                  | 6.3                           | 5.9                   |
| 2021  | 3       | -0.2        | 18.1                 | 6.9           | 5.0                          | 6.6          | 7.9                        | 52.5                       | 7.2                   | 8.8                           | 12.5                  |
| 2017  | 1       | 0.0         | 4.0                  | 3.5           | 2.3                          | 9.6          | 3.7                        | 4.6                        | 7.6                   | 8.7                           | 3.2                   |
| 2     | -2.1    | 4.7         | 0.2                  | 4.3           | 4.9                          | 4.6          | 6.3                        | 5.5                        | 8.3                   | 5.7                           |                       |
| 3     | -0.6    | 1.4         | -1.4                 | 3.1           | 5.7                          | 5.3          | 9.0                        | -1.5                       | 7.4                   | 4.0                           |                       |
| 4     | -2.5    | 2.8         | 0.5                  | 2.5           | 5.1                          | 3.5          | 17.9                       | 3.2                        | 8.0                   | 3.5                           |                       |
| 2018  | 1       | 4.1         | 4.4                  | 5.2           | 4.1                          | 6.6          | 5.1                        | 16.8                       | 4.3                   | 7.2                           | 2.7                   |
| 2     | 5.3     | -4.6        | 2.9                  | 3.0           | 7.0                          | 6.4          | 15.9                       | 6.7                        | 8.0                   | 0.9                           |                       |
| 3     | 6.3     | -11.4       | 2.7                  | 4.1           | 7.6                          | 5.8          | 10.9                       | 5.3                        | 7.7                   | 0.7                           |                       |
| 4     | 7.6     | -7.2        | 3.5                  | 3.2           | 3.3                          | 6.4          | 18.5                       | 7.7                        | 8.7                   | 6.3                           |                       |
| 2019  | 1       | 4.8         | -1.3                 | 2.7           | 3.0                          | 6.1          | 4.5                        | 15.5                       | 6.8                   | 8.8                           | 7.3                   |
| 2     | 3.3     | 7.0         | 4.4                  | 1.5           | 7.3                          | 6.3          | 11.6                       | 8.8                        | 6.8                   | 9.5                           |                       |
| 3     | 0.9     | 5.5         | 2.7                  | 1.5           | 7.9                          | 5.3          | 11.9                       | 4.6                        | 6.5                   | 10.7                          |                       |
| 4     | 1.3     | 6.4         | 0.9                  | 1.0           | 7.4                          | 5.0          | 17.7                       | 5.2                        | 5.9                   | 5.2                           |                       |
| 2020+ | 1       | 4.5         | 6.5                  | 1.4           | 1.5                          | 8.9          | 5.5                        | -14.1                      | 2.1                   | 7.8                           | 6.2                   |
| 2     | 8.0     | 3.9         | -5.4                 | -4.5          | 6.0                          | -3.8         | -57.2                      | -16.8                      | 4.9                   | 3.2                           |                       |
| 3     | -4.3    | 5.6         | -2.2                 | 0.8           | 10.2                         | -5.1         | -62.0                      | -10.2                      | 4.9                   | 3.3                           |                       |
| 4     | 9.8     | 6.0         | 4.3                  | 4.6           | 15.2                         | 1.4          | -57.7                      | -6.2                       | 7.5                   | 10.6                          |                       |
| 2021* | 1       | 0.4         | 10.7                 | 2.1           | 3.6                          | 6.8          | 7.5                        | -33.0                      | -7.9                  | 10.1                          | 11.8                  |
| 2     | -0.5    | 10.9        | 11.3                 | 7.2           | 6.8                          | 9.2          | 90.1                       | 18.6                       | 17.1                  | 17.3                          |                       |
| 3     | 0.6     | 16.4        | 10.2                 | 6.4           | 6.7                          | 6.4          | 127.5                      | 14.2                       | 4.1                   | 11.8                          |                       |
| 4     | -1.2    | 34.5        | 4.9                  | 2.8           | 6.0                          | 8.4          | 118.6                      | 6.5                        | 5.3                   | 9.9                           |                       |

+ Revised  
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**Table 2.17: Gross Domestic Product by Activity (Continued)**

| Year  | Quarter | Public administration | Professional, admin and support services | Real estate | Education | Health | Other services | FISIM | All indust. at basic prices | Percentage Changes (growth) |                      |
|-------|---------|-----------------------|--|-------------|-----------|--------|----------------|-------|-----------------------------|-----------------------------|----------------------|
|       |         |                       |  |             |           |        |                |       |                             | Taxes on products           | GDP at market prices |
| 2017  |         | 3.9                   | 3.0                                      | 6.7         | 8.7       | 6.4    | 4.4            | -6.0  | 3.7                         | 5.7                         | 3.8                  |
| 2018  |         | 7.9                   | 6.9                                      | 6.5         | 6.8       | 5.4    | 3.3            | 3.7   | 5.6                         | 5.9                         | 5.6                  |
| 2019  |         | 8.4                   | 6.8                                      | 6.7         | 5.7       | 5.5    | 4.3            | 9.5   | 5.2                         | 3.9                         | 5.1                  |
| 2020  |         | 7.0                   | -13.7                                    | 4.1         | -9.3      | 5.7    | -14.6          | -1.8  | 0.5                         | -8.1                        | -0.3                 |
| 2021  |         | 5.6                   | 5.7                                      | 6.7         | 21.4      | 6.0    | 12.6           | 5.5   | 7.1                         | 11.9                        | 7.5                  |
| 2017  | 1       | 2.5                   | 1.1                                      | 7.9         | 8.1       | 7.4    | 6.4            | -9.7  | 4.7                         | 12.5                        | 5.4                  |
| 2     | 3.0     | 1.9                   | 6.8                                      | 8.5         | 6.9       | 4.3    | -7.9           | 3.5   | 0.4                         | 3.3                         | -0.2                 |
| 3     | 5.6     | 2.9                   | 6.2                                      | 8.8         | 7.1       | 3.9    | -4.8           | 3.1   | 4.6                         | 3.2                         | 1.7                  |
| 4     | 4.5     | 5.9                   | 6.0                                      | 9.4         | 4.6       | 3.3    | -1.7           | 3.3   | 5.8                         | 3.5                         | 1.2                  |
| 2018  | 1       | 5.8                   | 7.6                                      | 6.2         | 8.3       | 5.4    | 1.5            | 5.5   | 5.1                         | 5.8                         | 5.2                  |
| 2     | 7.3     | 7.0                   | 6.4                                      | 6.7         | 6.6       | 2.5    | 2.1            | 5.5   | 12.3                        | 6.1                         | 2.2                  |
| 3     | 9.3     | 4.5                   | 6.6                                      | 6.3         | 5.0       | 3.3    | 2.3            | 5.4   | 4.5                         | 5.3                         | 1.3                  |
| 4     | 9.1     | 8.7                   | 6.8                                      | 5.9         | 4.9       | 5.7    | 5.1            | 6.5   | 1.7                         | 6.0                         | 1.5                  |
| 2019  | 1       | 7.4                   | 6.7                                      | 7.3         | 3.6       | 5.2    | 6.5            | 10.2  | 5.5                         | -1.6                        | 4.8                  |
| 2     | 9.1     | 8.1                   | 7.2                                      | 3.3         | 5.3       | 6.8    | 7.6            | 6.1   | 5.2                         | 6.0                         | 1.9                  |
| 3     | 8.5     | 4.9                   | 6.7                                      | 6.7         | 5.9       | 4.5    | 7.7            | 5.0   | 4.4                         | 5.0                         | 0.8                  |
| 4     | 8.4     | 7.6                   | 5.7                                      | 9.1         | 5.5       | -0.5   | 12.3           | 4.4   | 7.3                         | 4.6                         | 0.6                  |
| 2020+ | 1       | 4.7                   | 2.7                                      | 4.1         | 4.8       | 7.1    | -3.6           | -3.8  | 4.3                         | 5.5                         | 4.4                  |
| 2     | 4.5     | -25.5                 | 3.6                                      | -21.1       | 9.0       | -23.9  | -0.2           | -2.5  | -20.5                       | -4.1                        | -6.4                 |
| 3     | 8.3     | -18.4                 | 3.8                                      | -16.1       | 4.4       | -13.9  | -2.2           | -3.0  | -8.5                        | -3.5                        | 2.0                  |
| 4     | 10.2    | -12.5                 | 4.8                                      | -4.8        | 2.9       | -17.2  | -1.1           | 3.3   | -7.4                        | 2.3                         | 5.7                  |
| 2021* | 1       | 6.8                   | -13.0                                    | 6.7         | 11.5      | 5.8    | -8.4           | 4.9   | 2.7                         | 1.8                         | 2.7                  |
| 2     | 7.6     | 18.3                  | 7.4                                      | 31.6        | 6.2       | 28.8   | 2.8            | 10.4  | 18.5                        | 11.0                        | 1.3                  |
| 3     | 4.8     | 13.4                  | 7.1                                      | 28.3        | 4.1       | 17.7   | 5.1            | 9.1   | 12.5                        | 9.3                         | 1.0                  |
| 4     | 3.3     | 8.1                   | 5.7                                      | 18.0        | 7.8       | 16.8   | 8.7            | 6.7   | 15.7                        | 7.4                         | 3.0                  |

+ Revised  
\* Provisional



# Employment, Earnings and Consumer Prices

## Overview

The economy continued to adapt to the COVID-19 pandemic and dynamics in associated restrictions during the review period. Relaxation of various containment measures, such as the night curfew, lockdowns and travel restrictions coupled with the rollout of COVID-19 vaccination had a positive impact on economic activities. This provided an environment that spurred economic recovery and growth in the year under review. There was a general decline in unemployment and inactivity levels, with total employment surpassing the pre-pandemic level. Total employment outside small-scale agriculture and pastoralist activities grew by 5.3 per cent to 18.3 million in 2021. Wage employment in the modern sector recorded a growth of 6.0 per cent in 2021 compared to a decline of 6.3 per cent in 2020. Total number of self-employed and unpaid family workers within the modern sector rose to 163.7 thousand in 2021 from 156.1 thousand in 2020. Informal sector accounted for 83.3 per cent of total employment outside of small-scale agriculture and pastoralist activities

3.2. During the review period total nominal wage bill rose by 8.4 per cent from KSh 2,218.7 billion in 2020 to KSh 2,405.4 billion in 2021. Nominal average earnings per employee increased by 2.3 per cent to KSh 827.4 thousand compared to a 3.1 per cent increase in 2020. Real average earnings decreased by 3.8 per cent to KSh 718.8 thousand in 2021. The annual inflation rate for the year 2021 was 6.1 per cent compared to 5.4 per cent in 2020.

## Employment

**3.3.** Total employment outside small scale agriculture and pastoralist activities stood at 18.3 million persons as shown in Table 3.1. Wage employment in the modern sector recorded a growth of 6.0 per cent to 2.9 million in 2021. In the year under review, the modern sector created a total of 172.3 thousand jobs. The number of self-employed and unpaid family

workers engaged in the modern sector increased by 4.9 per cent in 2021 compared to a decline of 4.1 per cent recorded in 2020. The informal sector created 753.8 thousand jobs accounting for 81.4 per cent of the total jobs created outside of small-scale agriculture and pastoralist activities.

**Table 3.1: Total Recorded Employment<sup>1</sup>, 2017 - 2021**

|   | 2017            | 2018            | 2019            | 2020            | '000<br>2021*   |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Modern Establishments</b>            |                 |                 |                 |                 |                 |
| Wage Employees                          | 2,792.7         | 2,859.7         | 2,928.4         | 2,742.6         | 2,907.3         |
| Self-employed and unpaid family workers | 139.4           | 152.2           | 162.7           | 156.1           | 163.7           |
| <b>Sub -Total</b>                       | <b>2,932.1</b>  | <b>3,011.9</b>  | <b>3,091.1</b>  | <b>2,898.7</b>  | <b>3,071.0</b>  |
| Informal Sector <sup>2</sup>            | 13,539.6        | 14,283.6        | 15,051.6        | 14,508.0        | 15,261.8        |
| <b>TOTAL</b>                            | <b>16,471.7</b> | <b>17,295.5</b> | <b>18,142.7</b> | <b>17,406.7</b> | <b>18,332.8</b> |

\* Provisional

<sup>1</sup> Refers to employment stock as at 30<sup>th</sup> June and excludes small scale agriculture and pastoralist activities.

<sup>2</sup>Estimated

## Employment in the Modern Sector

**3.4.** Details of wage employment in the modern sector by industry and sector are presented in Table 3.2. Total wage employment in this sector of the economy increased by 6.0 per cent from 2,742.6 thousand jobs in 2020 to 2,907.3 thousand jobs in 2021. This was supported by a partial resumption of international travel, and a broad-based recovery in the manufacturing sector.

**3.5. Private sector:** The share of private sector employment was 68.3 per cent in 2021, which was slightly higher than the previous year which stood at 67.8 per cent. In 2021, the private sector recorded a growth of 6.8 per cent in employment levels compared to a decline of 10.0 per cent registered in 2020.

**3.6.** During the review period, the top three industries providing wage employment in the private sector were Manufacturing, Agriculture, Forestry and Fish-

ing and Wholesale and retail trade: repair of motor vehicle accounting for 15.8, 14.9 and 12.9 per cent of the total private sector employment, respectively. There was a turnaround in Accommodation and Food Services which recorded a significant growth of 23.9 per cent compared to a decline of 38.7 per cent registered in 2020. This was followed by Administrative and Support Service Activities, Education and, Arts and Entertainment at 20.8, 16.3 and 15.9 per cent, respectively. Employment in Accommodation and Food Activities industry has been on a recovery mode from the drastic decline at the height of the COVID-19 pandemic. The easing of the pandemic restrictions impacted positively on the employment in the industry as well as the bed occupancy rate, hence increasing employment in the sector.

**3.7. Public sector:** Employment in the public sector increased by 4.3 per cent to 923.1 thousand persons

in 2021. The increase was mainly attributed to recruitment in the civil service for essential services. Public administration and defense; compulsory social security registered the highest growth of 5.9 per cent in 2021. Other economic activities in the public sector that realized growth in employment were Hu-

man health and social work activities, Education and Transportation and Storage which registered growths of 4.9, 4.4 and 4.2 per cent, respectively. However, Electricity, Gas, Steam, and Air Conditioning Supply Activities recorded a decline of 2.9 per cent in 2021.

**Table 3.2: Wage Employment by Industry and Sector, 2017- 2021**

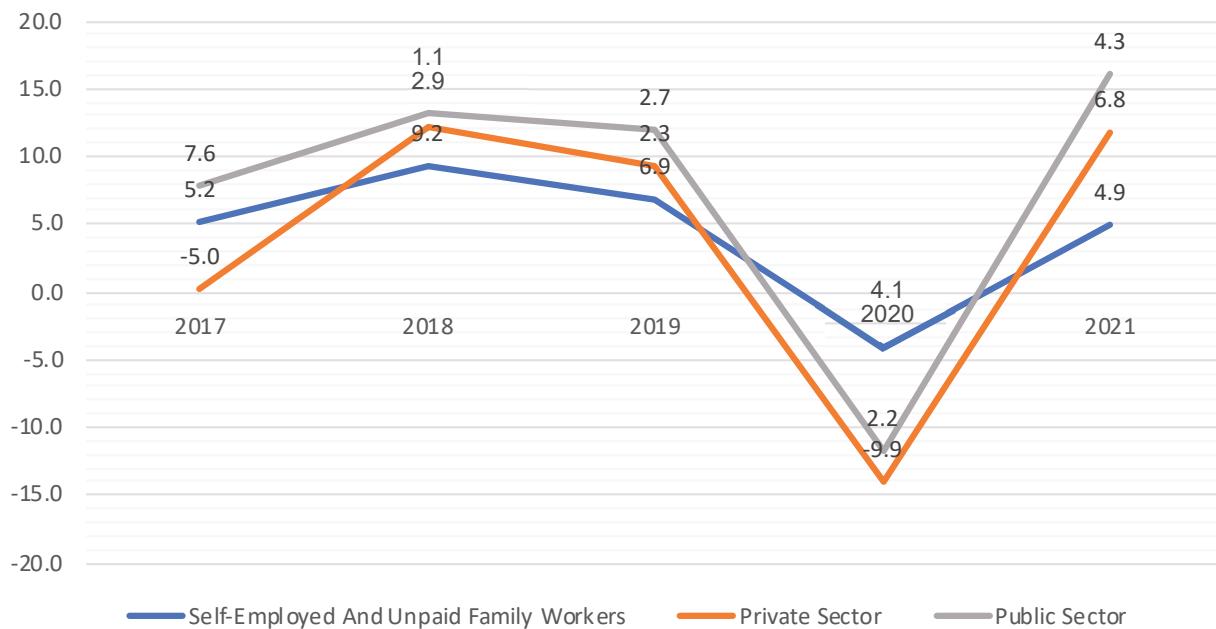
|  | 2017           | 2018           | 2019           | 2020           | 2021*          | '000<br>Percentage change |
|--|----------------|----------------|----------------|----------------|----------------|---------------------------|
| <b>PRIVATE SECTOR:</b>   |                |                |                |                |                |                           |
| Agriculture, forestry and fishing  | 289.8          | 294.3          | 296.7          | 280.6          | 295.3          | 5.2                       |
| Mining and quarrying   | 14.4           | 14.6           | 15.2           | 13.7           | 14.0           | 2.2                       |
| Manufacturing  | 317.5          | 321.3          | 329.0          | 293.8          | 313.5          | 6.7                       |
| Electricity, gas, steam and air conditioning supply  | 5.1            | 5.2            | 5.3            | 5.0            | 5.1            | 2.0                       |
| Water supply; sewerage, waste management and remediation activities  | 4.6            | 5.6            | 5.9            | 5.5            | 5.7            | 3.6                       |
| Construction   | 204.9          | 209.8          | 212.7          | 212.4          | 217.3          | 2.3                       |
| Wholesale and retail trade; repair of motor vehicles and motorcycles   | 249.3          | 258.9          | 267.7          | 249.7          | 256.3          | 2.6                       |
| Transportation and storage   | 68.9           | 71.0           | 73.9           | 58.0           | 64.2           | 10.7                      |
| Accommodation and food service activities  | 78.2           | 79.9           | 81.2           | 49.8           | 61.7           | 23.9                      |
| Information and communication  | 122.4          | 129.3          | 130.4          | 117.2          | 132.1          | 12.7                      |
| Financial and insurance activities   | 63.5           | 64.0           | 65.9           | 66.5           | 66.8           | 0.5                       |
| Real estate activities   | 4.2            | 4.3            | 4.4            | 3.7            | 4.1            | 10.8                      |
| Professional, scientific and technical activities  | 60.4           | 62.4           | 64.3           | 57.0           | 63.2           | 10.9                      |
| Administrative and support service activities  | 5.8            | 6.1            | 6.4            | 4.8            | 5.8            | 20.8                      |
| Public administration and defence; compulsory social security  | -              | -              | -              | -              | -              | -                         |
| Education  | 212.1          | 223.9          | 228.7          | 181.1          | 210.6          | 16.3                      |
| Human health and social work activities  | 102.2          | 108.0          | 114.6          | 103.6          | 106.7          | 3.0                       |
| Arts, entertainment and recreation   | 4.8            | 5.0            | 5.1            | 4.4            | 5.1            | 15.9                      |
| Other service activities   | 34.7           | 36.3           | 38.0           | 32.8           | 37.4           | 14.0                      |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | 115.4          | 115.8          | 116.4          | 117.0          | 117.9          | 0.8                       |
| Activities of extraterritorial organizations and bodies  | 1.3            | 1.3            | 1.4            | 1.4            | 1.4            | -                         |
| <b>TOTAL PRIVATE SECTOR</b>  | <b>1,959.5</b> | <b>2,017.0</b> | <b>2,063.2</b> | <b>1,858.0</b> | <b>1,984.2</b> | <b>6.8</b>                |

**Table 3.2: Wage Employment by Industry and Sector, 2017- 2021 (Continued)**

|  | 2017           | 2018           | 2019           | 2020           | 2021*          | Percentage change |
|--|----------------|----------------|----------------|----------------|----------------|-------------------|
| <b>PUBLIC SECTOR:</b>  |                |                |                |                |                |                   |
| Agriculture, forestry and fishing ..   | 42.3           | 42.3           | 41.9           | 41.7           | 41.9           | 0.4               |
| Mining and quarrying   | 0.6            | 0.6            | 0.7            | 0.7            | 0.7            | -                 |
| Manufacturing  | 26.2           | 26.3           | 24.1           | 23.0           | 23.3           | 1.3               |
| Electricity, gas, steam and air conditioning supply  | 17.9           | 18.0           | 18.5           | 17.5           | 17.0           | (2.9)             |
| Water supply; sewerage, waste management and remediation activities  | 9.3            | 9.4            | 9.5            | 9.1            | 9.4            | 3.3               |
| Construction   | 8.5            | 8.6            | 8.8            | 9.1            | 9.2            | 1.1               |
| Wholesale and retail trade; repair of motor vehicles and motorcycles   | 1.5            | 2.0            | 2.0            | 2.2            | 2.2            | -                 |
| Transportation and storage   | 19.3           | 19.9           | 18.8           | 19.1           | 19.9           | 4.2               |
| Accommodation and food service activities  | 1.6            | 1.6            | 1.7            | 1.7            | 1.7            | -                 |
| Information and communication  | 1.9            | 1.9            | 1.9            | 1.9            | 1.9            | -                 |
| Financial and insurance activities   | 11.3           | 11.9           | 12.0           | 11.1           | 11.0           | (0.9)             |
| Real estate activities   | -              | -              | -              | -              | -              | -                 |
| Professional, scientific and technical activities  | 6.2            | 6.4            | 6.5            | 6.7            | 6.7            | -                 |
| Administrative and support service activities  | -              | -              | -              | -              | -              | -                 |
| Public administration and defence; compulsory social security  | 294.1          | 296.5          | 304.6          | 311.3          | 329.8          | 5.9               |
| Education  | 349.6          | 354.9          | 369.1          | 381.9          | 398.6          | 4.4               |
| Human health and social work activities  | 40.6           | 40.2           | 42.8           | 45.2           | 47.4           | 4.9               |
| Arts, entertainment and recreation   | 2.3            | 2.2            | 2.3            | 2.4            | 2.4            | -                 |
| Other service activities   | -              | -              | -              | -              | -              | -                 |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | -              | -              | -              | -              | -              | -                 |
| Activities of extraterritorial organizations and bodies  | -              | -              | -              | -              | -              | -                 |
| <b>TOTAL PUBLIC SECTOR</b>   | <b>833.2</b>   | <b>842.7</b>   | <b>865.2</b>   | <b>884.6</b>   | <b>923.1</b>   | <b>4.3</b>        |
| <b>TOTAL WAGE EMPLOYMENT</b>   | <b>2,792.7</b> | <b>2,859.7</b> | <b>2,928.4</b> | <b>2,742.6</b> | <b>2,907.3</b> | <b>6.0</b>        |

\* Provisional.

**3.8.** Figure 3.1 shows percentage changes in wage employment in public, private and self-employed from 2017 to 2021. The percentage change for self-employed and unpaid family workers was 4.9 per cent in 2021 compared to a decline of 4.1 per cent recorded in 2020.

**Figure 3.1: Percentage changes in wage employment in Public, Private and Self-employed, 2017-2021**

**3.9.** Employment in the different public sector domains is presented in Table 3.3. Total wage employment in the public sector registered a growth of 4.3 per cent to 923.0 thousand in 2021 compared to 2.3 per cent recorded in 2020. Employment in Ministries and other extra-budgetary institutions registered the highest growth of 7.1 per cent in 2021. The Teachers

Service Commission which is the largest employer in the public sector registered a 5.7 per cent growth in employment to stand at 349.9 thousand in 2021. During the year under review, employment in County governments registered a growth of 1.7 per cent compared to an increase of 7.7 per cent recorded in 2020.

**Table 3.3 Wage Employment in the Public Sector, 2017– 2021**

|  | 2017         | 2018         | 2019         | 2020         | 2021*        | '000<br>“Annual Percentage Change “ |
|--|--------------|--------------|--------------|--------------|--------------|-------------------------------------|
| Ministries and other extra-budgetary institutions <sup>1</sup> | 197.6        | 206.4        | 207.2        | 206.1        | 220.7        | 7.1                                 |
| Teachers Service Commission                                    | 302.9        | 313.6        | 324.5        | 331.1        | 349.9        | 5.7                                 |
| Parastatal Bodies <sup>2</sup>                                 | 110.1        | 96.7         | 96.2         | 95.7         | 96.7         | 1.0                                 |
| Corporations controlled by the Government <sup>3</sup>         | 47.0         | 47.5         | 47.3         | 47.1         | 47.5         | 1.0                                 |
| County governments   | 175.5        | 178.7        | 190.0        | 204.6        | 208.1        | 1.7                                 |
| <b>TOTAL</b>   | <b>833.1</b> | <b>842.9</b> | <b>865.2</b> | <b>884.7</b> | <b>923.0</b> | <b>4.3</b>                          |

\* Provisional.

<sup>1</sup> Includes employees of Judiciary and Parliament.

<sup>2</sup> Refers to Government wholly-owned corporations.

<sup>3</sup> Refers to institutions where the Government has over 50 per cent shares but does not wholly own them.

**3.10.** Wage employment by industry and sex is presented in Table 3.4. Male employees in modern sector wage employment accounted for 60.7 per cent of the total wage employment in 2021. Inter sectoral comparison shows that Education, Manufacturing and Public administration and defense; compulsory social security engaged the largest number of males accounting for 17.6 per cent, 13.7 per cent and 12.4

per cent of total males engaged, respectively. On the other hand, majority of female employees were working in Education accounting for 26.4 per cent of total females engaged in the modern sector. Overall, casual employment registered a growth of 22.0 per cent and accounted for 17.5 per cent of the total wage employment.

**Table 3.4: Wage Employment by Industry and Sex, 2020 and 2021**

| INDUSTRY   | '000           |                |                |                |                |                |
|--|----------------|----------------|----------------|----------------|----------------|----------------|
|  | Male           |                | Female         |                | Total          |                |
|  | 2020           | 2021*          | 2020           | 2021*          | 2020           | 2021*          |
| Agriculture, forestry and fishing  | 170.6          | 174.8          | 151.7          | 162.4          | 322.3          | 337.2          |
| Mining and quarrying   | 12.3           | 12.5           | 2.1            | 2.2            | 14.4           | 14.7           |
| Manufacturing  | 235.9          | 242.5          | 80.9           | 94.3           | 316.8          | 336.8          |
| Electricity, gas, steam and air conditioning supply  | 17.7           | 17.4           | 4.8            | 4.7            | 22.5           | 22.1           |
| Water supply; sewerage, waste management and re-me-diation activities  | 11.1           | 11.5           | 3.5            | 3.6            | 14.6           | 15.1           |
| Construction   | 165.8          | 144.8          | 55.7           | 81.7           | 221.5          | 226.5          |
| Wholesale and retail trade; repair of motor vehicles and motorcycles   | 174.7          | 183.2          | 77.2           | 75.3           | 251.9          | 258.5          |
| Transportation and storage   | 63.4           | 75.7           | 13.7           | 8.4            | 77.1           | 84.1           |
| Accommodation and food service activities  | 33.7           | 37.1           | 17.8           | 26.3           | 51.5           | 63.4           |
| Information and communication  | 75.4           | 91.5           | 43.7           | 42.5           | 119.1          | 134.0          |
| Financial and insurance activities   | 42.6           | 40.7           | 35.0           | 37.1           | 77.6           | 77.8           |
| Real estate activities   | 2.3            | 2.5            | 1.4            | 1.6            | 3.7            | 4.1            |
| Professional, scientific and technical activities  | 46.2           | 52.7           | 17.5           | 17.2           | 63.7           | 69.9           |
| Administrative and support service activities  | 3.6            | 4.3            | 1.2            | 1.5            | 4.8            | 5.8            |
| Public administration and defence; compulsory social security  | 209.8          | 220.3          | 101.5          | 109.5          | 311.3          | 329.8          |
| Education  | 287.2          | 310.7          | 275.8          | 298.5          | 563.0          | 609.2          |
| Human health and social work activities  | 65.4           | 69.9           | 83.4           | 84.2           | 148.8          | 154.1          |
| Arts, entertainment and recreation   | 4.6            | 5.3            | 2.2            | 2.2            | 6.8            | 7.5            |
| Other service activities   | 18.3           | 26.9           | 14.5           | 10.5           | 32.8           | 37.4           |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | 39.0           | 40.1           | 78.0           | 77.8           | 117.0          | 117.9          |
| Activities of extraterritorial organizations and bodies  | 1.0            | 1.0            | 0.4            | 0.4            | 1.4            | 1.4            |
| <b>TOTAL</b>   | <b>1,680.6</b> | <b>1,765.4</b> | <b>1,062.0</b> | <b>1,141.9</b> | <b>2,742.6</b> | <b>2,907.3</b> |
| <b>Of which: Regular</b>   | <b>1,385.9</b> | <b>1,456.4</b> | <b>889.8</b>   | <b>942.0</b>   | <b>2,275.7</b> | <b>2,398.5</b> |
| <b>Casual</b>  | <b>294.7</b>   | <b>308.9</b>   | <b>172.2</b>   | <b>199.9</b>   | <b>416.9</b>   | <b>508.8</b>   |

## Wage Earnings in the Modern Sector

**3.11.** Total wage payments by industry in the modern sector for the period 2017 to 2021 is shown in Table 3.5. The nominal wage bill rose by 8.4 per cent from KSh 2,218.7 billion in 2020 to KSh 2,405.4 billion in 2021. The private sector wage bill went up by 9.2 per

cent from KSh 1,506.9 billion in 2020 to KSh 1,645.3 billion in 2021. The public sector wage bill increased by 6.8 per cent and accounted for 31.6 per cent of the total wage payments in 2021.

**Table 3.5: Wage Payments<sup>1</sup> by Industry and Sector, 2017- 2021**

|  | 2017               | 2018               | 2019               | 2020               | KSh Million<br>2021* |
|--|--------------------|--------------------|--------------------|--------------------|----------------------|
| <b>PRIVATE SECTOR:</b>   |                    |                    |                    |                    |                      |
| Agriculture, forestry and fishing  | 87,915.3           | 98,220.6           | 109,613.1          | 105,614.7          | 111,496.4            |
| Mining and quarrying   | 7,373.1            | 7,896.0            | 9,600.8            | 8,896.1            | 9,337.4              |
| Manufacturing  | 139,106.8          | 154,247.0          | 174,362.8          | 164,038.0          | 178,783.5            |
| Electricity, gas, steam and air conditioning supply  | 8,163.4            | 9,015.6            | 10,129.8           | 10,330.2           | 10,554.5             |
| Water supply; sewerage, waste management and remediation activities  | 1,079.2            | 1,449.5            | 1,658.4            | 1,589.2            | 1,694.5              |
| Construction   | 129,121.5          | 140,913.3          | 152,690.8          | 161,078.8          | 166,055.7            |
| Wholesale and retail trade; repair of motor vehicles and motorcycles   | 169,098.0          | 192,234.7          | 219,873.4          | 218,416.2          | 228,761.1            |
| Transportation and storage   | 90,105.8           | 99,258.8           | 111,084.2          | 87,980.3           | 98,559.6             |
| Accommodation and food service activities  | 32,538.5           | 34,685.2           | 36,862.4           | 21,373.3           | 27,679.1             |
| Information and communication  | 111,453.1          | 126,498.7          | 137,106.0          | 132,533.2          | 152,523.6            |
| Financial and insurance activities   | 111,658.3          | 117,989.0          | 128,416.9          | 136,591.2          | 139,004.6            |
| Real estate activities   | 1,187.6            | 1,277.1            | 1,359.2            | 1,199.9            | 1,336.3              |
| Professional, scientific and technical activities  | 69,341.0           | 77,556.1           | 86,714.2           | 82,569.1           | 93,502.4             |
| Administrative and support service activities  | 8,540.2            | 9,495.8            | 10,620.0           | 8,085.3            | 10,108.5             |
| Public administration and defence; compulsory social security  | -                  | -                  | -                  | -                  | -                    |
| Education  | 197,516.5          | 215,223.6          | 227,896.7          | 177,642.6          | 212,883.0            |
| Human health and social work activities  | 84,684.5           | 96,890.5           | 111,236.9          | 109,037.2          | 114,980.9            |
| Arts, entertainment and recreation   | 3,092.6            | 3,413.3            | 3,737.7            | 3,430.2            | 3,999.8              |
| Other service activities   | 30,332.7           | 34,802.1           | 40,045.4           | 37,232.1           | 43,562.8             |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | 26,952.8           | 29,185.5           | 31,637.8           | 34,195.6           | 35,233.8             |
| Activities of extraterritorial organizations and bodies  | 4,036.4            | 4,484.4            | 4,838.7            | 5,113.3            | 5,229.8              |
| <b>TOTAL PRIVATE SECTOR</b>  | <b>1,313,297.3</b> | <b>1,454,737.0</b> | <b>1,609,485.1</b> | <b>1,506,946.7</b> | <b>1,645,287.3</b>   |

**Table 3.5: Wage Payments<sup>1</sup> by Industry and Sector, 2017- 2021 (Continued)**

|  | <i>KSh Million</i> |                    |                    |                    |                    |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
|  | 2017               | 2018               | 2019               | 2020               | 2021*              |
| <b>PUBLIC SECTOR:</b>  |                    |                    |                    |                    |                    |
| Agriculture, forestry and fishing  | 17,833.6           | 18,333.7           | 20,062.1           | 21,302.7           | 21,569.5           |
| Mining and quarrying   | 261.4              | 276.8              | 319.0              | 349.5              | 360.9              |
| Manufacturing  | 22,729.6           | 23,759.1           | 23,756.7           | 24,089.4           | 24,258.7           |
| Electricity, gas, steam and air conditioning supply  | 23,674.7           | 24,235.3           | 26,945.6           | 26,627.3           | 26,042.8           |
| Water supply; sewerage, waste management and remediation activities  | 5,839.8            | 5,824.9            | 6,171.8            | 6,084.5            | 6,307.1            |
| Construction   | 6,173.1            | 6,250.7            | 7,161.6            | 7,861.9            | 8,035.8            |
| Wholesale and retail trade; repair of motor vehicles and motorcycles   | 1,827.7            | 1,848.2            | 2,021.1            | 2,297.8            | 2,297.2            |
| Transportation and storage   | 31,394.5           | 33,289.8           | 35,479.0           | 38,811.1           | 42,003.2           |
| Accommodation and food service activities  | 2,464.0            | 2,864.0            | 3,507.8            | 4,195.2            | 4,111.0            |
| Information and communication  | 1,457.5            | 1,518.2            | 1,701.9            | 1,812.8            | 1,818.9            |
| Financial and insurance activities   | 18,339.4           | 20,532.4           | 22,856.6           | 24,833.5           | 21,620.4           |
| Real estate activities   | -                  | -                  | -                  | -                  | -                  |
| Professional, scientific and technical activities  | 5,190.6            | 5,568.3            | 6,385.6            | 7,845.2            | 7,935.6            |
| Administrative and support service activities  | -                  | -                  | -                  | -                  | -                  |
| Public administration and defence; compulsory social security  | 181,975.9          | 191,134.1          | 199,023.0          | 199,433.9          | 221,650.5          |
| Education  | 211,256.8          | 235,545.7          | 262,788.2          | 264,583.1          | 281,497.8          |
| Human health and social work activities  | 55,735.4           | 57,805.4           | 68,206.1           | 79,353.9           | 88,398.8           |
| Arts, entertainment and recreation   | 1,783.8            | 1,779.9            | 2,035.2            | 2,222.1            | 2,239.0            |
| Other service activities   | -                  | -                  | -                  | -                  | -                  |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | -                  | -                  | -                  | -                  | -                  |
| Activities of extraterritorial organizations and bodies  | -                  | -                  | -                  | -                  | -                  |
| <b>TOTAL PUBLIC SECTOR</b>   | <b>587,937.8</b>   | <b>630,566.5</b>   | <b>688,421.3</b>   | <b>711,703.7</b>   | <b>760,147.1</b>   |
| <b>TOTAL PUBLIC AND PRIVATE</b>  | <b>1,901,235.1</b> | <b>2,085,303.5</b> | <b>2,297,906.4</b> | <b>2,218,650.4</b> | <b>2,405,434.3</b> |

\* Provisional

**3.12.** Wage payment in the public sector by type of employer is summarised in Table 3.6. The Teachers Service Commission wage bill rose by 7.6 per cent to KSh 259.6 billion and accounted for 34.2 per cent of total public sector wage bill in 2021. The share of the Ministries and other extra-budgetary institutions wage bill to the total public sector wage

bill increased marginally from 21.4 per cent in 2020 to 21.6 per cent in 2021. Total earnings in County governments registered an increase of 9.4 per cent from KSh 165.0 billion in 2020 to KSh 180.5 billion in 2021. Total wage payments in Parastatal Bodies and Corporations Controlled by the Government recorded an increase of 1.9 per cent each.

**Table 3.6: Total Wage Payments in the Public Sector<sup>1</sup>, 2017 - 2021**

|  | 2017             | 2018             | 2019             | 2020             | KSh Million<br>2021* |
|--|------------------|------------------|------------------|------------------|----------------------|
| Ministries and other extra-budgetary institutions <sup>1</sup> | 107,989.0        | 121,088.3        | 143,290.7        | 152,461.6        | 164,053.2            |
| Teachers Service Commission                                    | 180,901.3        | 202,176.4        | 229,191.2        | 241,272.1        | 259,638.2            |
| Parastatal Bodies <sup>2</sup>                                 | 91,521.0         | 93,830.4         | 92,878.5         | 92,728.6         | 94,513.4             |
| Corporations Controlled by the Government <sup>3</sup>         | 60,322.4         | 60,951.4         | 60,333.0         | 60,235.6         | 61,395.0             |
| County governments   | 147,204.1        | 152,520.1        | 162,728.0        | 165,005.9        | 180,547.3            |
| <b>TOTAL PUBLIC SECTOR</b>                                     | <b>587,937.8</b> | <b>630,566.5</b> | <b>688,421.3</b> | <b>711,703.7</b> | <b>760,147.1</b>     |

\* Provisional.

<sup>1</sup> Includes employees of Judiciary and Parliament.

<sup>2</sup> Refers to Government wholly-owned corporations.

<sup>3</sup> Refers to institutions where the Government has over 50 per cent shares but does not wholly own them.

**3.13.** Annual average earnings per employee for the period 2017-2021 is shown in Table 3.7. In the year under review, overall annual earnings increased by 2.3 per cent to KSh 827.4 thousand compared to a 3.1 per cent increase registered in 2020. This translates to an average monthly earning of KSh 68,953.4.

The average annual earnings in the private sector increased by 2.2 per cent to KSh 829.2 thousand in 2021 compared with an increase of 2.4 per cent to KSh 823.6 thousand in the public sector, over the same period.

**Table 3.7: Average Wage Earnings per Employee, 2017- 2021**

|  | KSh              |                  |                  |                  |                  |
|--|------------------|------------------|------------------|------------------|------------------|
|  | 2017             | 2018             | 2019             | 2020             | 2021*            |
| <b>PRIVATE SECTOR:</b>   |                  |                  |                  |                  |                  |
| Agriculture, forestry and fishing  | 303,399.8        | 333,781.6        | 369,443.3        | 376,329.8        | 377,630.0        |
| Mining and quarrying   | 513,360.1        | 540,008.7        | 631,213.0        | 649,873.2        | 666,150.1        |
| Manufacturing  | 438,168.1        | 480,058.2        | 529,912.1        | 558,307.6        | 570,371.5        |
| Electricity, gas, steam and air conditioning supply  | 1,613,312.0      | 1,747,216.0      | 1,899,820.0      | 2,052,500.0      | 2,077,242.5      |
| Water supply; sewerage, waste management and remediation activities  | 235,386.0        | 257,042.0        | 282,240.0        | 290,473.3        | 294,899.2        |
| Construction   | 630,177.5        | 671,815.6        | 717,755.7        | 758,453.2        | 764,324.7        |
| Wholesale and retail trade; repair of motor vehicles and motorcycles   | 678,269.3        | 742,485.4        | 821,477.7        | 874,784.6        | 892,517.3        |
| Transportation and storage   | 1,308,364.8      | 1,398,523.7      | 1,502,417.0      | 1,517,948.8      | 1,536,129.7      |
| Accommodation and food service activities  | 415,943.8        | 433,879.9        | 454,070.9        | 428,829.9        | 448,724.2        |
| Information and communication  | 910,542.6        | 978,690.3        | 1,051,571.8      | 1,130,713.5      | 1,154,939.2      |
| Financial and insurance activities   | 1,759,562.7      | 1,844,010.0      | 1,947,716.7      | 2,052,923.3      | 2,082,067.3      |
| Real estate activities   | 281,424.2        | 294,540.4        | 310,382.7        | 323,347.9        | 327,360.3        |
| Professional, scientific and technical activities  | 1,147,554.5      | 1,243,763.7      | 1,349,343.6      | 1,448,250.2      | 1,478,672.7      |
| Administrative and support service activities  | 1,484,227.4      | 1,565,150.4      | 1,658,850.1      | 1,688,308.7      | 1,734,470.2      |
| Public administration and defence; compulsory social security  | -                | -                | -                | -                | -                |
| Education  | 931,440.0        | 961,150.1        | 996,661.7        | 980,708.3        | 1,010,686.8      |
| Human health and social work activities  | 828,851.1        | 896,968.5        | 970,509.8        | 1,052,848.4      | 1,077,155.3      |
| Arts, entertainment and recreation   | 641,752.4        | 682,669.4        | 727,743.2        | 775,896.9        | 787,216.7        |
| Other service activities   | 874,366.6        | 957,892.4        | 1,053,187.9      | 1,135,263.9      | 1,163,443.3      |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | 233,630.7        | 251,955.3        | 271,769.4        | 292,280.0        | 298,895.5        |
| Activities of extraterritorial organizations and bodies  | 3,163,332.0      | 3,334,152.0      | 3,519,080.0      | 3,699,960.0      | 3,757,013.2      |
| <b>TOTAL PRIVATE SECTOR</b>  | <b>670,327.7</b> | <b>721,230.1</b> | <b>780,072.9</b> | <b>811,030.1</b> | <b>829,234.9</b> |

**Table 3.7: Average Wage Earnings per Employee, 2017- 2021 (Continued)**

|  | 2017             | 2018             | 2019             | 2020             | KSh<br>2021*     |
|--|------------------|------------------|------------------|------------------|------------------|
| <b>PUBLIC SECTOR:</b>  |                  |                  |                  |                  |                  |
| Agriculture, forestry and fishing  | 421,219.1        | 433,001.5        | 479,060.9        | 511,470.3        | 515,093.2        |
| Mining and quarrying   | 406,580.2        | 427,174.7        | 479,654.5        | 519,280.4        | 522,339.7        |
| Manufacturing  | 867,806.5        | 901,742.0        | 986,737.4        | 1,048,868.9      | 1,041,861.6      |
| Electricity, gas, steam and air conditioning supply  | 1,322,016.5      | 1,345,282.0      | 1,457,147.2      | 1,518,954.8      | 1,529,985.0      |
| Water supply; sewerage, waste management and remediation activities  | 629,225.0        | 621,391.7        | 652,965.2        | 669,139.8        | 669,044.7        |
| Construction   | 729,244.4        | 730,392.5        | 810,870.0        | 864,611.3        | 874,117.1        |
| Wholesale and retail trade; repair of motor vehicles and motorcycles   | 1,260,480.7      | 905,075.5        | 990,747.7        | 1,050,195.5      | 1,060,093.0      |
| Transportation and storage   | 1,628,432.0      | 1,671,761.2      | 1,882,677.1      | 2,031,354.9      | 2,111,985.1      |
| Accommodation and food service activities  | 1,587,634.9      | 1,777,768.7      | 2,120,817.5      | 2,444,728.7      | 2,476,497.1      |
| Information and communication  | 764,701.5        | 789,519.2        | 873,650.3        | 930,604.3        | 937,081.9        |
| Financial and insurance activities   | 1,629,590.0      | 1,719,491.1      | 1,899,332.6      | 2,234,029.6      | 1,967,098.4      |
| Real estate activities   | -                | -                | -                | -                | -                |
| Professional, scientific and technical activities  | 834,240.7        | 874,685.9        | 983,002.0        | 1,179,367.83     | 1,192,971.91     |
| Administrative and support service activities  | -                | -                | -                | -                | -                |
| Public administration and defence; compulsory social security  | 618,767.3        | 644,614.1        | 653,355.0        | 640,562.08       | 672,170.89       |
| Education  | 604,281.7        | 663,712.9        | 712,026.1        | 692,751.03       | 706,234.91       |
| Human health and social work activities  | 1,373,201.2      | 1,437,515.9      | 1,594,048.1      | 1,753,909.14     | 1,864,526.43     |
| Arts, entertainment and recreation   | 772,221.8        | 793,547.2        | 867,878.1        | 916,337.61       | 921,767.23       |
| Other service activities   | -                | -                | -                | -                | -                |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | -                | -                | -                | -                | -                |
| Activities of extraterritorial organizations and bodies  | -                | -                | -                | -                | -                |
| <b>TOTAL PUBLIC SECTOR</b>   | <b>705,738.5</b> | <b>748,060.7</b> | <b>795,648.5</b> | <b>804,481.3</b> | <b>823,585.6</b> |
| <b>TOTAL PRIVATE AND PUBLIC SECTOR</b>   | <b>680,892.6</b> | <b>729,138.0</b> | <b>784,674.8</b> | <b>808,917.8</b> | <b>827,441.2</b> |
| <b>MEMORANDUM ITEMS IN PUBLIC SECTOR:</b>  |                  |                  |                  |                  |                  |
| Ministries and other extra-budgetary institutions  | 546,428.5        | 586,551.5        | 691,615.0        | 739,581.7        | 743,207.6        |
| Teachers Service Commission  | 597,282.3        | 644,765.0        | 706,201.0        | 728,740.4        | 742,118.3        |
| Parastatal Bodies <sup>2</sup>   | 831,516.4        | 970,019.5        | 965,557.0        | 968,453.7        | 976,979.1        |
| Corporations Controlled by the Government <sup>3</sup>   | 1,283,772.0      | 1,282,282.4      | 1,276,383.4      | 1,280,212.5      | 1,291,482.3      |
| County governments   | 838,640.5        | 853,669.7        | 856,242.4        | 806,295.0        | 867,614.1        |
| <b>TOTAL PUBLIC SECTOR</b>   | <b>705,738.5</b> | <b>748,060.7</b> | <b>795,648.5</b> | <b>804,481.3</b> | <b>823,585.6</b> |

<sup>\*</sup> Provisional.<sup>1</sup> Annualised June earnings<sup>2</sup> Refers to Government wholly-owned corporations.<sup>3</sup> Refers to institutions where the Government has over 50 per cent shareholding but does not fully own them.

**3.14.** Table 3.8 presents the percentage change in wage employment and average earnings for the periods 2021/2016 and 2020/2021. During the five-year period from June 2016 to June 2021, total wage employment rose by 8.4 per cent. The public sector recorded a growth in wage employment of 19.2 per cent compared to a growth of 4.0 per cent recorded in the private sector.

**3.15.** Annual average earnings for employees in the modern sector have risen by 31.6 per cent over the five-year period. The public sector average earnings rose by 22.0 per cent compared to 33.7 per cent for the private sector. In the private sector, employees in

other service activities recorded the highest increase in average earnings by 48.5 per cent.

**3.16.** Real average earnings present the effects of inflationary pressures on workers' earnings over a period. Table 3.9 shows the estimated real average earnings for the period 2017 to 2021. This gives the real value of their earnings given the prevailing inflation rates. Overall real average earnings decreased by 3.8 per cent to 718.8 thousand in 2021. Real average earnings per annum in the private sector decreased by 3.8 per cent to KSh 720.4 thousand in 2021 while in the public sector it declined by 3.7 per cent to KSh 715.8 thousand over the same period.

**Table 3.8: Wage Employment and Average Earnings<sup>1</sup>, percentage changes, 2021/2016 and 2021/2020**

|  | EMPLOYMENT |            | AVERAGE EARNINGS |            |
|--|------------|------------|------------------|------------|
|  | 2021/2016* | 2021/2020* | 2021/2016*       | 2021/2020* |
| <b>PRIVATE SECTOR:</b>   |            |            |                  |            |
| Agriculture, forestry and fishing  | 0.3        | 5.2        | 37.8             | 0.3        |
| Mining and quarrying   | -3.4       | 2.2        | 47.0             | 2.5        |
| Manufacturing  | -0.5       | 6.7        | 44.4             | 2.2        |
| Electricity, gas, steam and air conditioning supply  | 13.3       | 2.0        | 41.9             | 1.2        |
| Water supply; sewerage, waste management and remediation activities  | 23.9       | 3.6        | 40.2             | 1.5        |
| Construction   | 9.1        | 2.3        | 25.8             | 0.8        |
| Wholesale and retail trade; repair of motor vehicles and motorcycles   | 7.5        | 2.6        | 44.5             | 2.0        |
| Transportation and storage   | -5.3       | 10.7       | 27.6             | 1.2        |
| Accommodation and food service activities  | -18.7      | 23.9       | 13.2             | 4.6        |
| Information and communication  | 14.7       | 12.7       | 35.4             | 2.1        |
| Financial and insurance activities   | 2.8        | 0.5        | 24.1             | 1.4        |
| Real estate activities   | 0.0        | 10.8       | 23.2             | 1.2        |
| Professional, scientific and technical activities  | 8.4        | 10.9       | 40.5             | 2.1        |
| Administrative and support service activities  | 7.4        | 20.8       | 24.4             | 2.7        |
| Public administration and defence; compulsory social security  | -          | -          | -                | -          |
| Education  | 7.0        | 16.3       | 12.7             | 3.1        |
| Human health and social work activities  | 11.5       | 3.0        | 40.9             | 2.3        |
| Arts, entertainment and recreation   | 10.9       | 15.9       | 31.0             | 1.5        |
| Other service activities   | 12.7       | 14.0       | 48.5             | 2.5        |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | 3.1        | 0.8        | 38.5             | 2.3        |
| Activities of extraterritorial organizations and bodies  | 16.7       | 0.0        | 25.5             | 1.5        |
| <b>TOTAL PRIVATE SECTOR</b>  | <b>4.0</b> | <b>6.8</b> | <b>33.7</b>      | <b>2.2</b> |

**Table 3.8: Wage Employment and Average Earnings<sup>1</sup>, percentage changes, 2021/2016 and 2021/2020 (Continued)**

|  | EMPLOYMENT  |            | AVERAGE EARNINGS |            |
|--|-------------|------------|------------------|------------|
|  | 2021/2016*  | 2021/2020* | 2021/2016*       | 2021/2020* |
| <b>PUBLIC SECTOR:</b>  |             |            |                  |            |
| Agriculture, forestry and fishing  | -0.8        | 0.4        | 23.8             | 0.7        |
| Mining and quarrying   | 16.7        | 0.0        | 31.4             | 0.6        |
| Manufacturing  | -12.1       | 1.3        | 18.1             | -0.7       |
| Electricity, gas, steam and air conditioning supply  | 4.3         | -2.9       | 13.6             | 0.7        |
| Water supply; sewerage, waste management and remediation activities  | 19.0        | 3.3        | 3.4              | 0.0        |
| Construction   | 15.0        | 1.1        | 22.6             | 1.1        |
| Wholesale and retail trade; repair of motor vehicles and motorcycles   | 69.2        | 0.0        | -11.4            | 0.9        |
| Transportation and storage   | 10.6        | 4.2        | 31.9             | 4.0        |
| Accommodation and food service activities  | 13.3        | 0.0        | 69.3             | 1.3        |
| Information and communication  | 0.0         | 0.0        | 22.7             | 0.7        |
| Financial and insurance activities   | -2.7        | -0.9       | 18.3             | -11.9      |
| Real estate activities   | -           | -          | -                | -          |
| Professional, scientific and technical activities  | 13.6        | 0.0        | 80.8             | 1.2        |
| Administrative and support service activities  | -           | -          | 0.0              | 0.0        |
| Public administration and defence; compulsory social security  | 33.2        | 5.9        | 29.8             | 4.9        |
| Education  | 14.1        | 4.4        | 20.9             | 1.9        |
| Human health and social work activities  | 39.8        | 4.9        | 63.7             | 6.3        |
| Arts, entertainment and recreation   | 0.0         | 0.0        | 19.1             | 0.6        |
| Other service activities   | -           | -          | -                | -          |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | -           | -          | -                | -          |
| Activities of extraterritorial organizations and bodies  | -           | -          | -                | -          |
| <b>TOTAL PUBLIC SECTOR</b>   | <b>19.2</b> | <b>4.3</b> | <b>22.0</b>      | <b>2.4</b> |
| <b>TOTAL PRIVATE AND PUBLIC SECTOR</b>   | <b>2.4</b>  | <b>6.0</b> | <b>31.6</b>      | <b>2.3</b> |
| <b>MEMORANDUM ITEMS IN PUBLIC SECTOR:</b>  |             |            |                  |            |
| Ministries and other extra-budgetary institutions  | 22.8        | 7.1        | 40.0             | 0.5        |
| Teachers Service Commission  | 17.5        | 5.7        | 27.2             | 1.8        |
| Parastatal Bodies <sup>2</sup>   | 2.4         | 1.0        | 9.4              | 0.9        |
| Corporations Controlled by the Government <sup>3</sup>   | 4.6         | 1.0        | 9.4              | 0.9        |
| County governments   | 32.3        | 1.7        | 17.8             | 7.6        |
| <b>TOTAL PUBLIC SECTOR</b>   | <b>19.1</b> | <b>4.3</b> | <b>22.0</b>      | <b>2.4</b> |

<sup>\*</sup> Provisional.<sup>1</sup> Annualised June earnings<sup>2</sup> Refers to Government wholly-owned corporations.<sup>3</sup> Refers to institutions where the Government has over 50 per cent shareholding but does not fully own them.

**Table 3.9: Estimated Real Average Wage Earnings per Employee<sup>1</sup>, 2017 – 2021**

|  | KSh              |                  |                  |                  |                  |
|--|------------------|------------------|------------------|------------------|------------------|
|  | 2017             | 2018             | 2019             | 2020             | 2021*            |
| <b>PRIVATE SECTOR</b>  |                  |                  |                  |                  |                  |
| Agriculture, forestry and fishing  | 320,401.2        | 338,030.9        | 356,885.6        | 347,598.7        | 328,059.4        |
| Mining and quarrying   | 542,126.8        | 546,883.4        | 609,757.6        | 600,258.2        | 578,706.1        |
| Manufacturing  | 462,721.4        | 486,169.7        | 511,900.0        | 515,683.3        | 495,500.1        |
| Electricity, gas, steam and air conditioning supply  | 1,703,715.8      | 1,769,459.3      | 1,835,243.7      | 1,895,800.7      | 1,804,567.7      |
| Water supply; sewerage, waste management and remediation activities  | 248,576.1        | 260,314.3        | 272,646.4        | 268,296.9        | 256,188.5        |
| Construction   | 665,490.3        | 680,368.3        | 693,358.6        | 700,548.7        | 663,993.6        |
| Wholesale and retail trade; repair of motor vehicles and motorcycles   | 716,276.9        | 751,937.8        | 793,555.1        | 807,998.6        | 775,358.6        |
| Transportation and storage   | 1,381,680.6      | 1,416,328.0      | 1,451,348.7      | 1,402,060.1      | 1,334,485.5      |
| Accommodation and food service activities  | 439,251.7        | 439,403.5        | 438,636.7        | 396,090.6        | 389,821.2        |
| Information and communication  | 961,566.0        | 991,149.7        | 1,015,828.1      | 1,044,388.5      | 1,003,333.0      |
| Financial and insurance activities   | 1,858,161.9      | 1,867,485.6      | 1,881,512.3      | 1,896,191.6      | 1,808,759.1      |
| Real estate activities   | 297,194.2        | 298,290.1        | 299,832.5        | 298,661.7        | 284,388.5        |
| Professional, scientific and technical activities  | 1,211,859.0      | 1,259,597.7      | 1,303,478.4      | 1,337,682.6      | 1,284,570.8      |
| Administrative and support service activities  | 1,567,397.8      | 1,585,075.9      | 1,602,464.6      | 1,559,413.8      | 1,506,790.4      |
| Public administration and defence; compulsory social security  | -                | -                | -                | -                | -                |
| Education  | 983,634.4        | 973,386.2        | 962,784.4        | 905,835.5        | 878,016.3        |
| Human health and social work activities  | 875,296.7        | 908,387.6        | 937,521.4        | 972,468.0        | 935,759.7        |
| Arts, entertainment and recreation   | 677,713.7        | 691,360.2        | 703,006.7        | 716,660.6        | 683,880.6        |
| Other service activities   | 923,362.8        | 970,087.0        | 1,017,389.3      | 1,048,591.5      | 1,010,720.8      |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | 246,722.5        | 255,162.9        | 262,531.7        | 269,965.7        | 259,660.2        |
| Activities of extraterritorial organizations and bodies  | 3,340,593.0      | 3,376,598.1      | 3,399,463.8      | 3,417,484.4      | 3,263,838.8      |
| <b>TOTAL PRIVATE SECTOR</b>  | <b>707,890.3</b> | <b>730,411.9</b> | <b>753,557.6</b> | <b>749,111.6</b> | <b>720,383.2</b> |

**Table 3.9: Estimated Real Average Wage Earnings per Employee<sup>1</sup>, 2017 – 2021 (Continued)**

|  | 2017             | 2018             | 2019             | 2020             | KSh<br>2021*     |
|--|------------------|------------------|------------------|------------------|------------------|
| <b>PUBLIC SECTOR</b>   |                  |                  |                  |                  |                  |
| Agriculture, forestry and fishing  | 444,822.6        | 438,513.9        | 462,777.3        | 472,421.8        | 447,478.1        |
| Mining and quarrying   | 429,363.4        | 432,613.0        | 463,350.7        | 479,635.6        | 453,773.4        |
| Manufacturing  | 916,435.0        | 913,221.9        | 953,197.4        | 968,792.4        | 905,098.8        |
| Electricity, gas, steam and air conditioning supply  | 1,396,097.3      | 1,362,408.4      | 1,407,617.7      | 1,402,989.3      | 1,329,147.4      |
| Water supply; sewerage, waste management and remediation activities  | 664,484.4        | 629,302.5        | 630,770.4        | 618,054.0        | 581,220.7        |
| Construction   | 770,108.5        | 739,691.0        | 783,307.9        | 798,602.1        | 759,373.8        |
| Wholesale and retail trade; repair of motor vehicles and motorcycles   | 1,331,113.2      | 916,597.8        | 957,071.4        | 970,017.7        | 920,937.0        |
| Transportation and storage   | 1,719,683.2      | 1,693,043.9      | 1,818,683.4      | 1,876,269.9      | 1,834,749.7      |
| Accommodation and food service activities  | 1,676,599.8      | 1,800,401.0      | 2,048,729.3      | 2,258,084.4      | 2,151,413.1      |
| Information and communication  | 807,552.4        | 799,570.3        | 843,954.3        | 859,556.8        | 814,073.4        |
| Financial and insurance activities   | 1,720,906.0      | 1,741,381.5      | 1,834,772.8      | 2,063,471.3      | 1,708,882.0      |
| Real estate activities   | -                | -                | -                | -                | -                |
| Professional, scientific and technical activities  | 880,988.3        | 885,821.3        | 949,589.0        | 1,089,328.3      | 1,036,373.3      |
| Administrative and support service activities  | -                | -                | -                | -                | -                |
| Public administration and defence; compulsory social security  | 653,440.6        | 652,820.5        | 631,147.0        | 591,658.0        | 583,936.6        |
| Education  | 638,143.3        | 672,162.4        | 687,823.8        | 639,862.5        | 613,529.1        |
| Human health and social work activities  | 1,450,150.2      | 1,455,816.5      | 1,539,865.2      | 1,620,005.9      | 1,619,774.4      |
| Arts, entertainment and recreation   | 815,494.2        | 803,649.6        | 838,378.3        | 846,379.3        | 800,769.0        |
| Other service activities   | -                | -                | -                | -                | -                |
| Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use | -                | -                | -                | -                | -                |
| Activities of extraterritorial organizations and bodies  | -                | -                | -                | -                | -                |
| <b>TOTAL PUBLIC SECTOR</b>   | <b>745,285.4</b> | <b>757,584.0</b> | <b>768,603.8</b> | <b>743,062.7</b> | <b>715,475.4</b> |
| <b>TOTAL PRIVATE AND PUBLIC SECTOR</b>   | <b>719,047.2</b> | <b>738,420.4</b> | <b>758,003.1</b> | <b>747,160.5</b> | <b>718,824.9</b> |
| <b>MEMORANDUM ITEMS IN PUBLIC SECTOR:</b>  |                  |                  |                  |                  |                  |
| Ministries and other extra-budgetary institutions  | 577,048.2        | 594,018.7        | 668,106.5        | 683,117.9        | 645,648.5        |
| Teachers Service Commission  | 630,751.8        | 652,973.3        | 682,196.7        | 673,104.3        | 644,702.1        |
| Parastatal Bodies <sup>2</sup>   | 878,111.4        | 982,368.5        | 932,737.0        | 894,516.5        | 848,733.3        |
| Corporations Controlled by the Government <sup>3</sup>   | 1,298,606.7      | 1,232,998.1      | 1,182,473.9      | 1,121,952.4      |                  |
|  | 1,355,709.6      |                  |                  |                  |                  |
| County governments   | 885,634.7        | 864,537.6        | 827,138.1        | 744,738.0        | 753,724.4        |
| <b>TOTAL PUBLIC SECTOR</b>   | <b>745,285.4</b> | <b>757,584.0</b> | <b>768,603.8</b> | <b>743,062.7</b> | <b>715,475.4</b> |

<sup>\*</sup> Provisional.<sup>1</sup> Average earnings adjusted for the rise in consumer prices (Base year 2019). Annualised June earnings deflated by June CPI<sup>2</sup> Refers to Government wholly-owned corporations.<sup>3</sup> Refers to institutions where the Government has over 50 per cent shareholding but does not fully own them.

**3.17.** Table 3.10 shows changes in wage employment, prices, and real earnings from 2017 to 2021. Wage employment grew by 6.0 per cent in 2021 compared to a decline of 6.3 per cent in the previous

year. The inflation rate increased from 4.6 per cent in June 2020 to 6.3 per cent in June 2021. Real average earnings further decreased to 3.8 per cent in 2021 compared to a decline of 1.4 per cent in 2020.

**Table 3.10: Changes in Wage Employment, Prices, and Real Earnings, 2017 – 2021**

|  | 2017 | 2018 | 2019 | 2020 | Per cent<br>2021* |
|--|------|------|------|------|-------------------|
| Wage employment                                | 4.1  | 2.4  | 2.4  | -6.3 | 6.0               |
| Average earnings at current prices             | 0.9  | 3.3  | 4.9  | 1.7  | 2.9               |
| Consumer prices (Inflation rates) <sup>1</sup> | 9.2  | 4.3  | 4.8  | 4.6  | 6.3               |
| Real average earnings                          | -0.8 | 2.7  | 2.7  | -1.4 | -3.8              |

\* Provisional

<sup>1</sup> June inflation using the Feb 2019=100 base

## Employment in the Informal Sector

**3.18.** The informal sector covers all small-scale activities that are usually semi organized, unregulated, use low and simple technologies and employ few persons. Majority of the small businesses such as retailers, hawkers and other service providers are in this sector. The ease of entry and exit into this sector coupled with the use of low level or no technology makes it an easy avenue for employment creation. This sector however excludes criminal activities such

as drug trafficking and any other illegal activity.

**3.19.** The COVID-19 pandemic had an unprecedented impact on the economy, especially the informal sector. Employment in the sector, however, grew by 5.5 per cent from an estimated 14.5 million persons in 2020 to 15.3 million persons in 2021. As shown in Table 3.11, the informal sector created of 753.8 thousand jobs over the review period.

**Table 3.11: Persons Engaged in the Informal Sector by Activity<sup>1</sup>, 2017- 2021**

| Activity   | 2017            | 2018            | 2019            | 2020            | 2021*           | 000 |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----|
| Manufacturing                                      | 2,728.9         | 2,878.8         | 3,044.9         | 2,874.2         | 3,151.8         |     |
| Construction                                       | 348.6           | 367.8           | 385.2           | 406.6           | 427.5           |     |
| Wholesale and Retail Trade, Hotels and Restaurants | 8,111.3         | 8,557.1         | 9,005.6         | 8,879.3         | 9,366.1         |     |
| Transport and Communications <sup>2</sup>          | 422.3           | 445.5           | 470.2           | 390.1           | 443.8           |     |
| Community, Social and Personal Services            | 1,316.1         | 1,388.2         | 1,462.5         | 1,334.3         | 1,563.6         |     |
| Others   | 612.6           | 646.2           | 683.2           | 623.3           | 730.4           |     |
| <b>TOTAL</b>                                       | <b>13,539.6</b> | <b>14,283.6</b> | <b>15,051.6</b> | <b>14,508.0</b> | <b>15,261.8</b> |     |
| Urban  | 4,801.9         | 5,070.7         | 5,337.4         | 5,143.8         | 6,224.0         |     |
| Rural  | 8,737.6         | 9,212.9         | 9,714.2         | 9,364.1         | 9,037.8         |     |

\* Provisional

<sup>1</sup> Estimated

<sup>2</sup> Includes mainly support services to transport activity

**3.20.** Table 3.12 presents gazetted monthly minimum wages in respect of the agricultural industry for the last five years. There has been no review of minimum wages since 2018 and therefore no new minimum wages were gazetted in 2021.

**Table 3.12: Gazetted Monthly Basic Minimum Wages for Agricultural Industry, 2017 – 2021**

| Type of Employee                    | 2017         | 2018         | 2019         | 2020         | KSh 2021     |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|
| Unskilled employees                 | 6,416        | 6,736        | 6,736        | 6,736        | 6,736        |
| Stockman, Herdsman and Watchman     | 7,409        | 7,779        | 7,779        | 7,779        | 7,779        |
| Skilled And Semi-Skilled Employees: |              |              |              |              |              |
| House servant or cook               | 7,224        | 7,585        | 7,585        | 7,585        | 7,585        |
| Farm foreman                        | 11,574       | 12,152       | 12,152       | 12,152       | 12,152       |
| Farm clerk                          | 11,574       | 12,152       | 12,152       | 12,152       | 12,152       |
| Section foreman                     | 7,492        | 7,867        | 7,867        | 7,867        | 7,867        |
| Farm artisan                        | 7,668        | 8,051        | 8,051        | 8,051        | 8,051        |
| Tractor driver                      | 8,131        | 8,538        | 8,538        | 8,538        | 8,538        |
| Combine harvester driver            | 8,958        | 9,406        | 9,406        | 9,406        | 9,406        |
| Lorry driver or car driver          | 9,401        | 9,871        | 9,871        | 9,871        | 9,871        |
| <b>AVERAGE</b>                      | <b>8,585</b> | <b>9,014</b> | <b>9,014</b> | <b>9,014</b> | <b>9,014</b> |

*"Source: Ministry of Labour*

**3.21.** Table 3.13 presents average gazetted monthly basic minimum wages in urban areas. The wages remained the same as in 2020 since there have been no reviews since 2018. Average monthly basic minimum wages for Nairobi, Mombasa and Kisumu cities were higher than in all other towns.

**Table 3.13: Average Gazetted Monthly Basic Minimum Wages in Urban Areas in 2020 and 2021**

| Occupation  | KSh                               |                  |   |                  |                  |                  |
|---|-----------------------------------|------------------|---|------------------|------------------|------------------|
|   | Nairobi , Mombasa & Kisumu Cities |                  | All former Municipalities and Town Councils of Mavoko, Ruiru and Limuru |                  | All other towns  |                  |
|   | 2020                              | 2021*            | 2020  | 2021*            | 2020             | 2021*            |
| General labourer including cleaner, sweeper, gardener, children's ayah, house servant, day watchman, messenger  | 13,572.88                         | 13,572.88        | 12,522.72   | 12,522.72        | 7,240.96         | 7,240.96         |
| Miner, stone cutter, turn boy .waiter, cook, logger, line cutter  | 14,658.84                         | 14,658.84        | 13,005.67   | 13,005.67        | 8,366.35         | 8,366.35         |
| Night watchman  | 15,141.95                         | 15,141.95        | 14,037.98   | 14,037.98        | 8,636.30         | 8,636.30         |
| Machine attendant, sawmill sawyer, machine assistant, mass production machinist, shoe cutter, bakery worker, bakery assistant, tailor's assistant   | 15,383.45                         | 15,383.45        | 14,315.28   | 14,315.28        | 11,602.87        | 11,602.87        |
| Machinist (made-to-measure), shoe upper preparer, chaplis maker, vehicle service worker (petrol and service stations), bakery plant hand, laundry operator, junior clerk, wheeled tractor driver (light)                        | 17,560.99                         | 17,560.99        | 16,428.30   | 16,428.30        | 13,431.29        | 13,431.29        |
| Printing machine operator, bakery machine operator, plywood machine operator, sawmill dresser, shop assistant, machine tool operator, dough maker, table hand baker or confectioner, copy -typist, driver (cars and light vans) | 18,319.51                         | 18,319.51        | 16,907.89   | 16,907.89        | 13,975.29        | 13,975.29        |
| Pattern designer (draughts-man), garment and dress cutter, single hand oven man, charge-hand baker, general clerk, telephone operator, receptionist, storekeeper  | 20,904.92                         | 20,904.92        | 19,112.05   | 19,112.05        | 16,295.95        | 16,295.95        |
| Tailor, driver (medium sized vehicle)   | 23,039.42                         | 23,039.42        | 21,175.14   | 21,175.14        | 18,881.21        | 18,881.21        |
| Dyer, crawler tractor driver, salesman  | 25,435.20                         | 25,435.20        | 23,731.79   | 23,731.79        | 21,418.48        | 21,418.48        |
| Saw doctor, caretaker (buildings)   | 28,147.61                         | 28,147.61        | 26,283.29   | 26,283.29        | 24,485.11        | 24,485.11        |
| Cashier, driver (heavy commercial vehicle) salesman - driver  | 30,627.45                         | 30,627.45        | 28,822.13   | 28,822.13        | 27,023.96        | 27,023.96        |
| Ungraded artisan  | 18,319.51                         | 18,319.51        | 16,907.89   | 16,907.89        | 3,975.29         | 13,975.29        |
| Artisan Grade III   | 23,039.47                         | 23,039.47        | 21,175.14   | 21,175.14        | 18,845.56        | 18,845.56        |
| Artisan Grade II  | 24,884.06                         | 24,884.06        | 23,731.79   | 23,731.79        | 21,418.48        | 21,418.48        |
| Artisan Grade I   | 30,627.45                         | 30,627.45        | 28,822.13   | 28,822.13        | 27,023.96        | 27,023.96        |
| <b>Average</b>  | <b>21,310.85</b>                  | <b>21,310.85</b> | <b>19,798.61</b>  | <b>19,798.61</b> | <b>16,841.40</b> | <b>16,841.40</b> |

Source:Ministry of Labour

¹ Excluding Housing Allowance

**3.22.** The total number of agreements registered decreased to 166 in 2021 from 172 recorded in 2020. The number of collective bargaining agreements registered by the Employment and Labour Relations Court in 2020 and 2021 is shown in Table

3.14. Number of unionisable employees covered by the agreements increased to 431.9 thousand in 2021 from 16.1 thousand in 2020. During the review period average monthly basic wage of KSh 63,073 was offered in the agreements.

**Table 3.14: Collective Bargaining Agreements Registered by the Industrial Court, 2020 and 2021**

| Activity   | Agreements (Number) |            | Unionsable employees (Number) |                | Average basic wages (KSh) |               | Average monthly allowances offered <sup>1</sup> (KSh) |               |
|--|---------------------|------------|-------------------------------|----------------|---------------------------|---------------|---|---------------|
|  | 2020                | 2021*      | 2020                          | 2021*          | 2020                      | 2021*         | 2020  | 2021*         |
| Agriculture, Forestry And Fishing                                    | 2                   | 12         | 2,958                         | 14,356         | 18,434.3                  | 25,655.6      | 4,160.0   | 8,797.7       |
| Mining And Quarrying   |                     |            |                               |                |                           |               | -   | -             |
| Manufacturing  | 42                  | 65         | 7,819                         | 24,606         | 33,380.4                  | 39,232.6      | 11,327.0  | 14,513.1      |
| Electricity, Gas, Steam And Air Conditioning Supply                  |                     | 1          |                               | 27             |                           | 126,370.1     | -   | 38,888.0      |
| Water Supply; Sewerage, Waste Management And Remediation Activities  | 6                   | 9          | 3,296                         | 947            | 51,546.0                  | 38,850.9      | 25,237.4  | 19,619.0      |
| Construction   | 5                   | 1          | 81                            | 1,405          | 19,632.9                  | 19,523.0      | 9,405.2   | 7,172.5       |
| Wholesale And Retail Trade; Repair Of Motor Vehicles And Motorcycles | 1                   | 4          | 60                            | 118            | 22,605.8                  | 68,151.2      | 6,550.0   | 12,863.7      |
| Transportation And Storage   | 6                   | 10         | 888                           | 868            | 56,457.0                  | 47,360.3      | 11,525.7  | 19,444.6      |
| <b>Accommodation And Food Service Activities</b>                     |                     |            |                               |                |                           |               | -   | -             |
| Information And Communication  | 67                  | 5          | 67                            | 475            | 54,688.4                  | 61,140.6      | 5,504.5   | 30,466.7      |
| Financial And Insurance Activities                                   | 28                  | 13         | 950                           | 22,307         | 33,932.5                  | 122,914.7     | 16,700.0  | 37,671.6      |
| Real Estate Activities   |                     | 1          |                               | 46             |                           | 223,425.6     | -   | 6,400.0       |
| <b>Professional, Scientific And Technical Activities</b>             |                     |            |                               |                |                           |               | -   | -             |
| Administrative And Support Service Activities                        |                     | 3          |                               | 12,499         |                           | 18,244.9      | -   | 10,474.1      |
| <b>Public Administration And Defence; Compulsory Social Security</b> |                     |            |                               |                |                           |               | -   | -             |
| Education  |                     | 30         |                               | 338,710        |                           | 48,914.2      | -   | 15,656.8      |
| Human Health And Social Work Activities                              | 12                  | 10         | 14                            | 15,470         | 40,540.8                  | 50,714.2      | 14,081.7  | 13,698.3      |
| Arts, Entertainment And Recreation                                   |                     | 2          |                               | 86             |                           | 25,987.1      | -   | 29,400.0      |
| Other Service Activities   |                     |            |                               |                |                           |               | -   | -             |
| Activities Of Extraterritorial Organizations And Bodies              | 3                   |            | 5                             | 5              | 29,611.7                  | 29,611.7      | 15,626.0  | -             |
| <b>Total/ Average</b>  | <b>172</b>          | <b>166</b> | <b>16,138</b>                 | <b>431,925</b> | <b>34,016</b>             | <b>63,073</b> | <b>6,006</b>  | <b>13,253</b> |

Source :Ministry of Labour : Central Planning and Monitoring Unit

\*Provisional

<sup>1</sup> Includes Housing, Leave and Travel allowances

## Consumer Price Index

**3.23.** The annual inflation as measured by the Consumer Price Index (CPI) increased from 5.4 per cent in 2020 to 6.1 per cent in 2021. The increase was mainly due to increase in the prices of fuel and food items.

**3.24.** Table 3.15a shows changes in Consumer Price Indices (CPI) in the broad Classification of Individual Consumption by Purpose (COICOP) divisions from 2019 to 2021. In 2021, Transport Index which consti-

tutes 9.7 per cent of the total household expenditure recorded the highest inflation rate of 12.3 per cent. This was mainly due to increase in prices of petrol and diesel. Food and Non-Alcoholic Beverages Index recorded an inflation rate of 8.5 per cent in 2021. Housing, Water, Electricity, Gas and Other Fuels Index, recorded an annual inflation rate of 4.8 per cent mainly due to increase in prices of kerosene, cooking gas and electricity during the review period.

**Table 3.15a: National Consumer Price Indices and Rates of Inflation by COICOP Divisions, 2019 - 2021**

| COICOP Divisions  | Share (%)     | 2019          | 2020          | 2021          | “% Change 2021/2020” |
|---|---------------|---------------|---------------|---------------|----------------------|
| Food and Non-Alcoholic Beverages                                      | 32.91         | 107.03        | 116.73        | 126.65        | 8.5                  |
| Alcoholic Beverages, Tobacco and Narcotics                            | 3.33          | 103.53        | 109.98        | 113.02        | 2.8                  |
| Clothing and Footwear   | 2.99          | 101.05        | 103.50        | 105.91        | 2.3                  |
| Housing, Water, Electricity, Gas and Other Fuels                      | 14.61         | 101.00        | 103.33        | 108.26        | 4.8                  |
| Furnishings, Household Equipment and Routine Household Maintenance    | 3.74          | 101.08        | 103.00        | 107.19        | 4.1                  |
| Health  | 2.91          | 100.56        | 102.69        | 106.20        | 3.4                  |
| Transport   | 9.65          | 102.40        | 111.50        | 125.16        | 12.3                 |
| Information and Communication   | 7.78          | 100.49        | 101.11        | 103.04        | 1.9                  |
| Recreation, Sport and Culture   | 1.72          | 100.61        | 103.02        | 104.92        | 1.8                  |
| Education Services  | 5.56          | 100.19        | 101.74        | 103.70        | 1.9                  |
| Restaurants and Accommodation Services                                | 8.10          | 101.03        | 104.01        | 107.30        | 3.2                  |
| Insurance and Financial Services                                      | 2.24          | 100.18        | 100.94        | 102.56        | 1.6                  |
| Personal Care, Social Protection and Miscellaneous Goods and Services | 4.45          | 101.28        | 103.59        | 106.59        | 2.9                  |
| <b>Weighted Average of All Items</b>                                  | <b>100.00</b> | <b>103.16</b> | <b>108.69</b> | <b>115.33</b> | <b>6.1</b>           |

**3.25.** Table 3.15b present details of inflation in respect to the COICOP classes of the Food and Non-Alcoholic Beverages division. In 2021, Oils and fats category recorded the highest rate of inflation of 25.6 per cent mainly due to high increase in prices of cooking oil and cooking fats. Readymade food and other foods recorded the second highest inflation

rate, which stood at 23.4 per cent in 2021. During the review period, Vegetables, tubers, plantains, cooking bananas and pulses recorded an inflation rate of 12.5 per cent. Other non-alcoholic beverages (such as energy/health drink) recorded the lowest inflation rate of 2.2 per cent.

**Table 3.15b: Consumer Price Indices for Food and Non-Alcoholic Beverages by COICOP Classes, 2019 -2021**

| COICOP Classes of Food and Non-Alcoholic Beverages Division                | Share (%) | 2019   | 2020   | 2021   | “% Change 2021/2020” |
|--|-----------|--------|--------|--------|----------------------|
| Cereals and cereal products  | 8.865     | 106.58 | 111.75 | 116.57 | 4.3                  |
| Live animals, meat and other parts of slaughtered land animals             | 4.777     | 101.61 | 104.64 | 114.45 | 9.4                  |
| Fish and other seafood   | 1.317     | 105.29 | 115.90 | 130.47 | 12.6                 |
| Milk, other dairy products and eggs  | 4.960     | 103.68 | 107.11 | 111.12 | 3.7                  |
| Oils and fats  | 1.738     | 100.33 | 102.01 | 128.18 | 25.6                 |
| Fruits and nuts  | 2.005     | 112.80 | 133.36 | 147.56 | 10.6                 |
| Vegetables, tubers, plantains, cooking bananas and pulses                  | 6.103     | 117.93 | 146.02 | 164.25 | 12.5                 |
| Sugar, confectionery and desserts  | 1.525     | 100.33 | 103.49 | 106.85 | 3.3                  |
| Ready-made food and other food products n.e.c.                             | 0.228     | 107.71 | 128.02 | 157.96 | 23.4                 |
| Fruit and vegetable juices   | 0.141     | 101.15 | 103.04 | 107.65 | 4.5                  |
| Coffee and coffee substitutes  | 0.009     | 101.73 | 102.35 | 105.52 | 3.1                  |
| Tea, maté and other plant products for infusion                            | 0.344     | 101.40 | 103.00 | 107.13 | 4.0                  |
| Cocoa drinks   | 0.044     | 100.84 | 102.16 | 106.27 | 4.0                  |
| Water  | 0.236     | 100.81 | 103.04 | 105.87 | 2.8                  |
| Soft drinks  | 0.495     | 102.10 | 105.05 | 109.24 | 4.0                  |
| Other non-alcoholic beverages  | 0.001     | 100.95 | 102.52 | 104.74 | 2.2                  |
| Services for processing primary goods for food and non-alcoholic beverages | 0.122     | 100.59 | 102.19 | 105.78 | 3.5                  |

n.e.c: *not elsewhere classified*

**3.26.** Table 3.15c presents the annual average retail prices of selected consumer goods in the CPI basket from 2017 to 2021. In 2021, majority of selected consumer goods recorded an increase in prices. During the review period, petrol, kerosene, cabbag-

es, and diesel recorded the highest price increases, which went up by 21.8, 18.5, 17.5 and 15.6 per cent, respectively. On the other hand, price of maize grain-loose went down by 3.4 per cent during the same period.

**Table 3.15c: Annual Average Retail Prices of Selected Consumer Goods in the Consumer Price Basket, 2017 – 2021**

| ITEM                | Unit      | KSh per Unit |          |          |          |          |          |
|---------------------|-----------|--------------|----------|----------|----------|----------|----------|
|                     |           | 2017         | 2018     | 2019     | 2020     | 2021*    | % change |
| Beef - with bones   | 1 Kg      | 410.28       | 439.04   | 426.66   | 436.76   | 474.52   | 8.6      |
| Offals - Matumbo    | 1 Kg      | 254.12       | 262.87   | 253.69   | 260.46   | 279.66   | 7.4      |
| Bread,White         | 400 Gms   | 49.55        | 50.24    | 48.41    | 48.29    | 52.67    | 9.1      |
| Maize grain- loose  | 1 Kg      | 57.66        | 49.20    | 47.20    | 49.79    | 48.07    | -3.4     |
| Milk - Packeted     | 1/2 Litre | 59.60        | 60.59    | 49.73    | 48.72    | 49.60    | 1.8      |
| Sugar               | 1 Kg      | 137.82       | 132.62   | 116.21   | 113.94   | 115.30   | 1.2      |
| Wheat Flour         | 2 kg      | 131.29       | 122.28   | 121.94   | 119.37   | 131.39   | 10.1     |
| English Potatoes    | 1 Kg      | 81.14        | 67.86    | 71.07    | 67.28    | 70.20    | 4.3      |
| Kales - Sukuma-wiki | 1 Kg      | 52.82        | 50.75    | 44.19    | 49.08    | 54.47    | 11.0     |
| Cabbages            | 1 Kg      | 66.52        | 40.84    | 43.02    | 38.52    | 45.28    | 17.5     |
| Petrol (Super)      | 1 Litre   | 99.30        | 110.86   | 110.50   | 103.25   | 125.79   | 21.8     |
| Diesel              | 1 Litre   | 86.02        | 104.78   | 102.89   | 93.91    | 108.56   | 15.6     |
| Kerosene            | 1 Litre   | 66.99        | 90.06    | 102.97   | 84.55    | 100.18   | 18.5     |
| Electricity         | 200 KW/h  | 3,727.71     | 4,269.52 | 4,647.00 | 4,561.80 | 4,941.13 | 8.3      |
| Electricity         | 50 KW/h   | 597.33       | 813.72   | 809.05   | 789.55   | 884.38   | 12.0     |
| Gas                 | 13 Kg     | 2,075.32     | 2,173.40 | 2,024.75 | 2,047.28 | 2,280.91 | 11.4     |

**3.27.** Table 3.16 presents annual inflation rate segmented into Nairobi (lower, middle and upper) income groups, Nairobi overall as well as the rest of urban areas. In 2021, rest of urban areas and Nairobi lower

income group recorded the highest annual inflation rates of 6.7 per cent and 6.0 per cent, respectively. Nairobi upper income group recorded the lowest inflation rate of 4.0 per cent in 2021.

**Table 3.16: Annual Inflation, 2017 - 2021**

| Income Group             | Per cent   |            |            |            |            |
|--------------------------|------------|------------|------------|------------|------------|
|                          | 2017       | 2018       | 2019       | 2020       | 2021       |
| Nairobi Lower Income     | 8.6        | 4.6        | 5.3        | 6.2        | 6.0        |
| Nairobi Middle Income    | 6.1        | 5.7        | 5.2        | 2.6        | 4.2        |
| Nairobi Upper Income     | 3.4        | 5.9        | 5.9        | 2.6        | 4.0        |
| Nairobi                  | 3.4        | 4.9        | 5.3        | 4.7        | 5.2        |
| Rest of Urban Areas      | 8.2        | 4.6        | 5.2        | 5.9        | 6.7        |
| <b>Overall Inflation</b> | <b>8.0</b> | <b>4.7</b> | <b>5.2</b> | <b>5.4</b> | <b>6.1</b> |

*Notes:*

<sup>1</sup>. Nairobi Lower Income Group constitute of households that were spending KSh 46,355 or less per month in February 2016 (they constitute 70.89 per cent of all households in Nairobi).

<sup>2</sup>. Nairobi Middle Income Group constitute of households that were spending between KSh 46,356 up to and including KSh 184,394 per month in February 2016 (they constitute 25.58 per cent of all households in Nairobi).

<sup>3</sup>. Nairobi Upper Income Group constitute of households spending KSh 184,395 or more per month in February 2016 (they constitute 3.53 per cent of all households in Nairobi).

3.28. Table 3.17 presents details of the annual average CPI for Nairobi lower income group. Annual average CPI for the Nairobi lower income group stood at 116.51 in 2021. The index was highest in

December 2021 at 119.56 and lowest at 113.63 in January 2021. The movement in the index was mainly driven by food and transport indices.

**Table 3.17: Consumer Price Indices for Nairobi Lower Income Group, 2017 - 2021**

| Month                 | 2017         | 2018         | 2019          | 2020          | February 2019=100 |
|-----------------------|--------------|--------------|---------------|---------------|-------------------|
| January               | 90.10        | 95.90        | 98.72         | 107.50        | 113.63            |
| February              | 92.07        | 97.36        | 100.00        | 108.36        | 114.56            |
| March                 | 94.20        | 99.26        | 101.83        | 108.85        | 115.15            |
| April                 | 96.15        | 100.34       | 102.91        | 109.88        | 116.11            |
| May                   | 96.55        | 101.23       | 103.63        | 109.93        | 116.37            |
| June                  | 95.01        | 100.25       | 104.06        | 109.70        | 116.48            |
| July                  | 93.89        | 98.87        | 104.33        | 110.01        | 116.80            |
| August                | 94.62        | 98.02        | 104.37        | 109.90        | 116.86            |
| September             | 94.28        | 98.43        | 104.54        | 110.04        | 117.16            |
| October               | 94.27        | 97.17        | 104.90        | 110.40        | 117.60            |
| November              | 93.99        | 97.20        | 105.76        | 111.31        | 117.84            |
| December              | 94.53        | 97.84        | 106.58        | 113.06        | 119.56            |
| <b>Annual Average</b> | <b>94.14</b> | <b>98.49</b> | <b>103.47</b> | <b>109.91</b> | <b>116.51</b>     |

**3.29. Consumer** Price Indices for Nairobi middle- and upper-income groups, overall Nairobi, rest of urban areas and aggregated national indices from 2017 to 2021 are presented in Tables 3.18, 3.19, 3.20, 3.21 and 3.22, respectively.

**Table 3.18: Consumer Price Indices, Nairobi Middle Income Group, 2017 - 2021**

| Month                 | 2017         | 2018         | 2019          | 2020          | February 2019=100 |
|-----------------------|--------------|--------------|---------------|---------------|-------------------|
| January               | 89.07        | 94.73        | 99.62         | 102.99        | 106.20            |
| February              | 90.08        | 95.28        | 100.00        | 103.34        | 106.75            |
| March                 | 90.82        | 95.70        | 100.23        | 103.52        | 107.12            |
| April                 | 92.05        | 95.92        | 100.62        | 104.04        | 107.64            |
| May                   | 92.37        | 96.63        | 101.04        | 103.74        | 107.75            |
| June                  | 91.47        | 96.63        | 101.30        | 104.14        | 107.88            |
| July                  | 91.41        | 96.32        | 101.50        | 103.37        | 108.63            |
| August                | 91.97        | 97.28        | 101.67        | 103.49        | 108.88            |
| September             | 92.10        | 98.39        | 101.93        | 103.63        | 109.27            |
| October               | 92.51        | 98.08        | 102.05        | 104.42        | 109.42            |
| November              | 92.64        | 98.36        | 102.38        | 104.76        | 109.69            |
| December              | 93.33        | 99.09        | 102.71        | 105.65        | 110.37            |
| <b>Annual Average</b> | <b>91.65</b> | <b>96.87</b> | <b>101.25</b> | <b>103.92</b> | <b>108.30</b>     |

**Table 3.19: Consumer Price Indices, Nairobi Upper Income Group, 2017 - 2021**

| Month                 | 2017         | 2018         | 2019          | 2020          | February 2019=100<br>2021 |
|-----------------------|--------------|--------------|---------------|---------------|---------------------------|
| January               | 90.58        | 94.08        | 100.19        | 102.65        | 105.63                    |
| February              | 91.02        | 94.83        | 100.00        | 103.41        | 106.56                    |
| March                 | 91.19        | 94.98        | 100.52        | 103.42        | 107.25                    |
| April                 | 91.21        | 94.98        | 100.77        | 103.69        | 107.38                    |
| May                   | 91.33        | 95.20        | 101.30        | 104.00        | 107.86                    |
| June                  | 90.99        | 96.22        | 101.51        | 103.84        | 108.15                    |
| July                  | 91.22        | 96.19        | 101.74        | 103.79        | 108.42                    |
| August                | 91.64        | 98.76        | 101.82        | 104.55        | 108.54                    |
| September             | 91.55        | 100.17       | 101.92        | 104.26        | 109.30                    |
| October               | 92.22        | 98.82        | 101.97        | 104.60        | 109.42                    |
| November              | 92.46        | 98.87        | 102.26        | 104.59        | 109.69                    |
| December              | 93.20        | 100.53       | 102.66        | 105.10        | 110.09                    |
| <b>Annual Average</b> | <b>91.55</b> | <b>96.97</b> | <b>101.39</b> | <b>103.99</b> | <b>108.19</b>             |

**Table 3.20: Consumer Price Indices, Overall Nairobi, 2017 - 2021**

| Month                 | 2017         | 2018         | 2019          | 2020          | February 2019=100<br>2021 |
|-----------------------|--------------|--------------|---------------|---------------|---------------------------|
| January               | 89.90        | 95.59        | 98.96         | 105.48        | 110.30                    |
| February              | 91.61        | 96.83        | 100.00        | 106.16        | 111.11                    |
| March                 | 93.38        | 98.36        | 101.16        | 106.50        | 111.64                    |
| April                 | 95.11        | 99.22        | 101.92        | 107.27        | 112.36                    |
| May                   | 95.49        | 100.05       | 102.52        | 107.24        | 112.60                    |
| June                  | 94.13        | 99.35        | 102.87        | 107.22        | 112.73                    |
| July                  | 93.27        | 98.24        | 103.11        | 107.14        | 113.19                    |
| August                | 93.96        | 97.89        | 103.20        | 107.21        | 113.31                    |
| September             | 93.73        | 98.48        | 103.39        | 107.30        | 113.70                    |
| October               | 93.83        | 97.41        | 103.64        | 107.79        | 114.00                    |
| November              | 93.65        | 97.50        | 104.26        | 108.41        | 114.26                    |
| December              | 94.23        | 98.20        | 104.88        | 109.74        | 115.49                    |
| <b>Annual Average</b> | <b>93.52</b> | <b>98.09</b> | <b>102.49</b> | <b>107.29</b> | <b>112.89</b>             |

**Table 3.21: Consumer Price Indices, the Rest of Urban Areas, 2017 - 2021**

| <b>Month</b>          | <b>2017</b>  | <b>2018</b>  | <b>2019</b>   | <b>2020</b>   | <b>2021</b>   |
|-----------------------|--------------|--------------|---------------|---------------|---------------|
| January               | 90.69        | 94.16        | 99.34         | 107.25        | 114.20        |
| February              | 92.15        | 95.49        | 100.00        | 107.89        | 114.97        |
| March                 | 93.52        | 96.70        | 101.81        | 108.17        | 115.36        |
| April                 | 95.15        | 98.31        | 102.65        | 109.36        | 116.44        |
| May                   | 96.08        | 99.35        | 103.52        | 109.57        | 116.67        |
| June                  | 95.07        | 98.34        | 103.98        | 109.01        | 116.80        |
| July                  | 94.12        | 97.61        | 104.34        | 109.22        | 117.05        |
| August                | 94.62        | 98.35        | 104.64        | 109.54        | 117.42        |
| September             | 93.87        | 99.62        | 104.77        | 109.48        | 117.77        |
| October               | 92.81        | 99.02        | 105.19        | 110.89        | 118.57        |
| November              | 92.56        | 98.67        | 105.82        | 112.46        | 119.30        |
| December              | 93.01        | 99.28        | 106.66        | 113.38        | 120.26        |
| <b>Annual Average</b> | <b>93.64</b> | <b>97.91</b> | <b>103.56</b> | <b>109.69</b> | <b>117.07</b> |

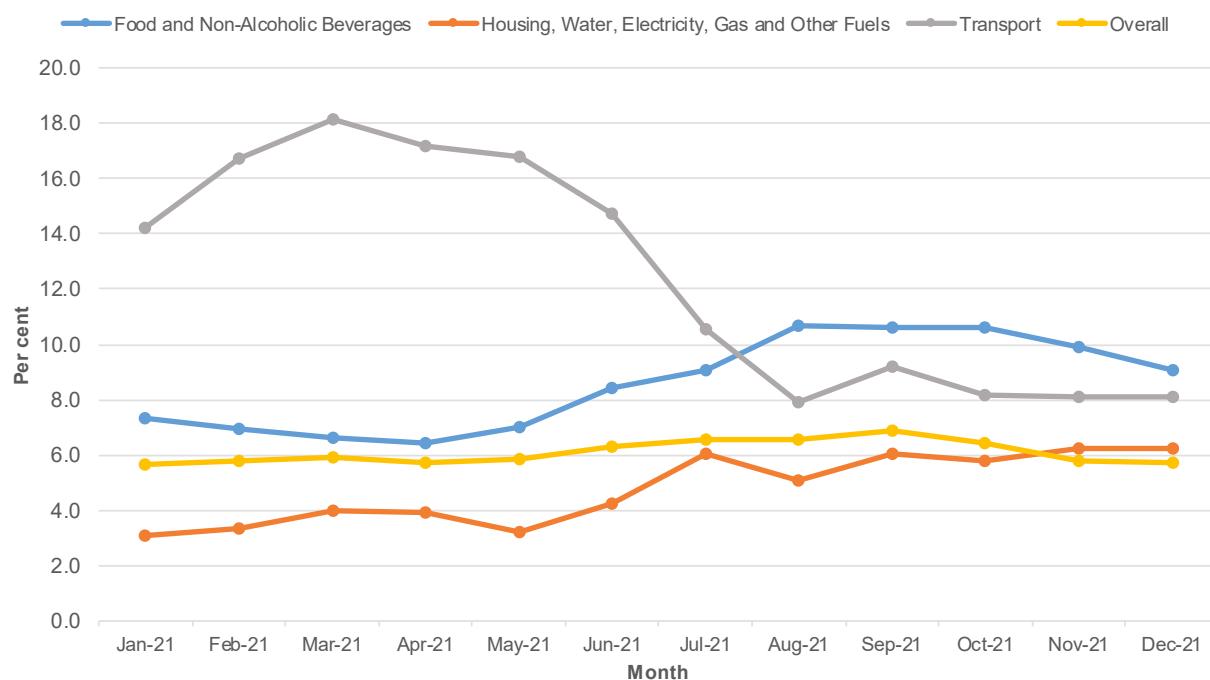
**Table 3.22: Consumer Price Indices Kenya, 2017 - 2021**

| <b>Month</b>          | <b>2017</b>  | <b>2018</b>  | <b>2019</b>   | <b>2020</b>   | <b>2021</b>   |
|-----------------------|--------------|--------------|---------------|---------------|---------------|
| January               | 90.37        | 94.74        | 99.66         | 106.51        | 112.58        |
| February              | 91.93        | 96.03        | 100.00        | 107.17        | 113.36        |
| March                 | 93.46        | 97.37        | 101.54        | 107.47        | 113.81        |
| April                 | 95.13        | 98.68        | 102.34        | 108.49        | 114.75        |
| May                   | 95.84        | 99.63        | 103.11        | 108.60        | 114.98        |
| June                  | 94.69        | 98.74        | 103.52        | 108.27        | 115.11        |
| July                  | 93.78        | 97.86        | 103.83        | 108.35        | 115.45        |
| August                | 94.35        | 98.16        | 104.04        | 108.57        | 115.71        |
| September             | 93.81        | 99.16        | 104.20        | 108.57        | 116.08        |
| October               | 93.22        | 98.38        | 104.54        | 109.60        | 116.67        |
| November              | 93.00        | 98.20        | 105.17        | 110.78        | 117.20        |
| December              | 93.50        | 98.84        | 105.92        | 111.87        | 118.27        |
| <b>Annual Average</b> | <b>93.59</b> | <b>97.98</b> | <b>103.16</b> | <b>108.69</b> | <b>115.33</b> |

**3.30.** Figure 3.2 shows the trends in overall and key divisions inflation from January to December 2021. The figure shows that the highest overall inflation rate was recorded in September 2021 at 6.9 per cent and the lowest overall inflation rate was recorded in

both January and December 2021 at 5.7 per cent. Transport division recorded highest inflation rate in March 2021 at 18.1 per cent and thereafter, it recorded a continuous decline in inflation rate from April 2021 up to August 2021.

**Figure 3.2: Trends in Overall and Key COICOP Divisions Inflation, January – December 2021**





# Money, Banking and Finance

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## Overview

In 2021, the Central Bank of Kenya (CBK) lifted some measures that had been put in place in 2020 to mitigate on effects of the Coronavirus Disease 2019 (COVID-19) pandemic including the guidelines on loan restructuring. The monetary policy stance was conservative as Central Bank Rate (CBR) remained at 7.00 per cent throughout 2021. Broad money supply (M3) and overall liquidity recorded growth of 6.1 per cent and 10.4 per cent, respectively in the review period. Broad money supply (M3) stood at KSh 4,235.2 billion as at December 2021.

**4.2.** The 91-day Treasury bills rate rose to 7.26 per cent in December 2021 from 6.90 per cent in December 2020, while the average commercial bank deposits rate increased to 6.50 per cent in December 2021. However, an increase in interest rate on loans and advances to 12.16 per cent led to a reduction in average interest rates spread to 5.66 per cent in 2021.

**4.3.** The growth in total domestic credit decelerated to 15.1 per cent in 2021 compared to a growth of 18.5 per cent in 2020, partly due to slower growth in credit extended to National Government. Credit to the private sector grew by 8.6 per cent at the end of 2021 to KSh 3,136.8 billion compared to a growth of 8.3 per cent at the end of 2020. During the review period, net foreign assets declined by 20.9 per cent from KSh 749.2 billion as at December 2020 to KSh 592.3 billion as at end of 2021.

### Selected Monetary Indicators

**4.4.** Selected monetary indicators from 2017 to 2021 are shown in Table 4.1. Net foreign assets declined by 20.9 per cent from KSh 749.2 billion as at end of December 2020 to KSh 592.3 billion as at end of December 2021. This was partly attributed to reduction in holdings of financial assets overseas. Total domestic credit recorded a slowed growth of 15.1 per cent from KSh 4,339.1 billion in 2020 to KSh 4,993.8 billion in 2021. The slowed increase was attributed to a reduced growth of credit to the National Government of 29.3 per cent compared to a growth of 50.9 per cent as at end of December 2020. However, credit to the private sector grew by 8.6 per cent at the end of 2021 to KSh 3,136.8 billion.

**4.5.** Commercial banks' liquidity ratio increased to 59.3 per cent as at December 2021 from 56.5 per cent as at end of December 2020, implying an increased ability of commercial banks to fund obligations as they fall due. Advances to deposit ratio declined from 75.8 per cent as at end of 2020 to 74.7 per cent as at end of the first quarter 2021 and later increased to 75.8 per cent as at the end of 2021.

**Table 4.1: Selected Monetary Indicators, 2017 - 2021**

| As at end of: | Net Foreign Assets <sup>1</sup> (KSh Million) | Domestic Credit (KSh million) |              |                          |                                  |           | Broad Money Supply <sup>4</sup> (M3) (KSh Million) | Commercial Banks Liquidity Ratio <sup>5</sup> (Per cent) | Advances/Deposits Ratio (per cent) |
|---------------|---|-------------------------------|--------------|--------------------------|----------------------------------|-----------|--|--|------------------------------------|
|               |   | Private Sector <sup>2</sup>   | Para-statals | Local/ County Govt (Net) | National Government <sup>3</sup> | Total     |  |  |                                    |
| 2017 Dec      | 518,393                                       | 2,418,192                     | 108,424      | 3,975                    | 748,726                          | 3,279,318 | 3,030,646  | 46.4   | 84.1                               |
| 2018 Dec      | 716,095                                       | 2,490,088                     | 96,608       | 4,342                    | 859,126                          | 3,450,164 | 3,337,832  | 50.6   | 78.4                               |
| 2019 Dec      | 806,441                                       | 2,667,874                     | 87,985       | 4,299                    | 900,383                          | 3,660,541 | 3,524,026  | 52.6   | 79.4                               |
| 2020 Dec      | 749,171                                       | 2,889,526                     | 85,550       | 5,654                    | 1,358,379                        | 4,339,110 | 3,990,901  | 56.5   | 75.8                               |
| 2021* Mar     | 693,232                                       | 2,945,619                     | 83,573       | 5,741                    | 1,430,555                        | 4,465,488 | 4,029,992  | 57.1   | 74.7                               |
| 2021 Jun      | 785,985                                       | 2,981,133                     | 77,783       | 6,642                    | 1,458,846                        | 4,524,404 | 4,137,813  | 57.3   | 74.7                               |
| 2021 Sep      | 664,073                                       | 3,059,152                     | 74,195       | 6,634                    | 1,608,650                        | 4,748,631 | 4,177,661  | 57.2   | 75.1                               |
| 2021 Dec      | 592,333                                       | 3,136,803                     | 81,869       | 18,268                   | 1,756,825                        | 4,993,765 | 4,235,224  | 59.3   | 75.8                               |

Source: Central Bank of Kenya

<sup>1</sup> Includes reserve position at IMF

<sup>2</sup> Includes interest in suspense in non-performing loans

<sup>3</sup> Includes Government deposits with Crown Agents

<sup>4</sup> See Table 4.2 and 4.3 for details

<sup>5</sup> Commercial Banks' liquid assets as a percentage of deposit liabilities

\* Provisional

**4.6.** Table 4.2 shows the components of money supply from 2017 to 2021. Money supply (M1) grew by 7.4 per cent to KSh 1,848.1 billion at the end of 2021 compared to a 12.8 per cent growth as at end of 2020. Similarly, quasi-money grew by 3.5 per cent in 2021 compared to a 11.0 per cent growth as at end of 2020. During the same period, Money supply (M2), Broad Money supply (M3) and Overall Liquidity (L) recorded growths of 5.6, 6.1 and 9.5 per cents to stand at KSh 3,431.6 billion, KSh 4,235.2 billion and KSh 6,202.3 billion respectively.

**Table 4.2: Money and Quasi-Money Supply, 2017 – 2021**

|       |           |           |              |           |           | <i>KSh Million</i> |
|-------|-----------|-----------|--------------|-----------|-----------|--------------------|
|       |           | M1        | Quasi-Money* | M2        | M3        | L                  |
| 2017  | December  | 1,385,918 | 1,165,895    | 2,551,811 | 3,030,646 | 4,013,640          |
| 2018  | December  | 1,477,526 | 1,278,447    | 2,755,973 | 3,337,832 | 4,461,216          |
| 2019  | December  | 1,525,237 | 1,379,115    | 2,904,352 | 3,524,026 | 4,831,493          |
| 2020  | December  | 1,720,132 | 1,530,090    | 3,250,223 | 3,990,901 | 5,665,218          |
| 2021* | January   | 1,716,364 | 1,520,544    | 3,236,907 | 3,992,885 | 5,688,002          |
|       | February  | 1,734,582 | 1,528,872    | 3,263,455 | 4,042,989 | 5,739,578          |
|       | March     | 1,716,744 | 1,533,546    | 3,250,290 | 4,029,992 | 5,769,054          |
|       | April     | 1,718,771 | 1,559,275    | 3,278,045 | 4,040,835 | 5,812,232          |
|       | May       | 1,726,768 | 1,567,399    | 3,294,167 | 4,039,609 | 5,776,390          |
|       | June      | 1,779,227 | 1,598,250    | 3,377,477 | 4,137,813 | 5,899,511          |
|       | July      | 1,788,031 | 1,628,882    | 3,416,913 | 4,174,644 | 5,986,270          |
|       | August    | 1,821,013 | 1,641,354    | 3,462,367 | 4,233,437 | 6,094,089          |
|       | September | 1,770,791 | 1,637,347    | 3,408,138 | 4,177,661 | 6,073,184          |
|       | October   | 1,827,519 | 1,609,542    | 3,437,061 | 4,210,912 | 6,136,408          |
|       | November  | 1,822,003 | 1,613,301    | 3,435,304 | 4,234,004 | 6,186,454          |
|       | December  | 1,848,086 | 1,583,477    | 3,431,563 | 4,235,224 | 6,202,347          |

Source: Central Bank of Kenya.

Notes:

- (a) M1 comprises of currency outside banks plus all demand deposits except; those of the National Government, Commercial Banks and Non Residents deposits
- (b) Quasi Money: Refers to near money. It comprises of call plus 7 days deposits, savings and time deposits.
- (c) Broad Money, M2, comprise of M1 and Quasi money.
- (d) Broad Money, M3, comprises M2 and foreign currency holdings by residents.
- (e) Overall Liquidity, L, comprises M3 and Treasury Bill holdings by the non-bank public.

\*Provisional

+Revised

### Consolidated Accounts of the Banking System

**4.7.** Table 4.3 shows the total assets and liabilities of depository corporations which includes the CBK, commercial banks and microfinance banks from 2017 to 2021. Assets of the banking sector recorded a growth of 9.8 per cent from KSh 5,088.3 billion as at end of 2020 to KSh 5,586.1 billion as at end of 2021. The increase in assets was mainly due to 29.3 per cent and 8.6 per cent growth in credit to the National Government and the private sector, respectively. The slowed growth in the total assets is attributed to decline in the net foreign assets from KSh 749.2 billion as at the end of 2020 to KSh 592.3 billion as at the end of 2021.

**4.8.** On the other hand, increase in liabilities in 2021 was driven by growth in demand deposits, currency outside banks, foreign currency deposits and treasury bill holdings at 8.1, 8.5, 8.5 and 17.5 per cent, respectively in 2021. Other drivers of the growth in total liabilities were increases in Money supply (M1) and quasi money at 7.4 and 3.5 per cent, respectively. Over the review period, other deposits at the Central Bank declined by 4.3 per cent from a growth of 37.2 per cent as at the end of 2020.

**Table 4.3: Consolidated Accounts of the Banking System, 2017 – 2021**

|                                       | KSh Million      |                  |                  |                  |                  |                  |                  |                  |  |
|---------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|--|
|                                       | 2017             | 2018             | 2019             | 2020             | 2021*            |                  |                  |                  |  |
| LIABILITIES-                          | Dec              | Dec              | Dec              | Dec              | Mar              | Jun              | Sept             | Dec              |  |
| <b>1. Money (M1):</b>                 |                  |                  |                  |                  |                  |                  |                  |                  |  |
| 1.1 Demand Deposits                   | 1,119,837        | 1,175,559        | 1,253,380        | 1,385,857        | 1,405,626        | 1,409,949        | 1,430,150        | 1,498,379        |  |
| 1.2 Other Deposits at Central Bank    | 41,389           | 71,704           | 73,371           | 100,670          | 85,425           | 143,477          | 106,399          | 96,335           |  |
| 1.3 Currency outside banks            | 225,838          | 230,344          | 198,486          | 233,605          | 225,693          | 225,801          | 234,241          | 253,371          |  |
| <b>Sub-Total</b>                      | <b>1,385,918</b> | <b>1,477,526</b> | <b>1,525,237</b> | <b>1,720,132</b> | <b>1,716,744</b> | <b>1,779,227</b> | <b>1,770,791</b> | <b>1,848,086</b> |  |
| <b>2. Quasi-Money(MS):</b>            |                  |                  |                  |                  |                  |                  |                  |                  |  |
| 2.1 Call + 7 days Notice Deposits     | 135,599          | 148,690          | 160,398          | 177,957          | 178,359          | 185,885          | 190,432          | 184,166          |  |
| 2.2 Savings Deposits                  | 160,082          | 175,536          | 189,358          | 210,088          | 210,562          | 219,446          | 224,814          | 217,418          |  |
| 2.3 Time Deposits                     | 870,214          | 954,223          | 1,029,360        | 1,142,047        | 1,144,626        | 1,192,921        | 1,222,103        | 1,181,895        |  |
| Sub-Total (quasi-money banks)         | 1,165,895        | 1,278,447        | 1,379,115        | 1,530,090        | 1,533,546        | 1,598,250        | 1,637,347        | 1,583,477        |  |
| Broad Money Supply(M2)                | 2,551,811        | 2,755,973        | 2,904,352        | 3,250,223        | 3,250,290        | 3,377,477        | 3,408,138        | 3,431,563        |  |
| 3. Foreign Currency Deposits          | 478,834          | 581,859          | 619,675          | 740,678          | 779,702          | 760,336          | 769,524          | 803,661          |  |
| Broad Money Supply(M3)                | 3,030,646        | 3,337,832        | 3,524,026        | 3,990,901        | 4,029,992        | 4,137,813        | 4,177,661        | 4,235,224        |  |
| 4. Treasury Bill Holdings             | 982,994          | 1,123,384        | 1,307,467        | 1,674,317        | 1,739,062        | 1,761,698        | 1,895,523        | 1,967,123        |  |
| Overall Liquidity(L)                  | 4,013,640        | 4,461,216        | 4,831,493        | 5,665,218        | 5,769,054        | 5,899,511        | 6,073,184        | 6,202,347        |  |
| 5. Other Items Net(OIN)               | 767,065          | 828,427          | 942,956          | 1,097,380        | 1,128,728        | 1,172,576        | 1,235,043        | 1,350,874        |  |
| <b>TOTAL LIABILITIES (M3+OIN)</b>     | <b>3,797,711</b> | <b>4,166,259</b> | <b>4,466,982</b> | <b>5,088,280</b> | <b>5,158,720</b> | <b>5,310,389</b> | <b>5,412,704</b> | <b>5,586,098</b> |  |
| <b>ASSETS-</b>                        |                  |                  |                  |                  |                  |                  |                  |                  |  |
| 6. Net Foreign Assets <sup>1</sup>    | 518,393          | 716,095          | 806,441          | 749,171          | 693,232          | 785,985          | 664,073          | 592,333          |  |
| 7. Domestic Credit:                   |                  |                  |                  |                  |                  |                  |                  |                  |  |
| 7.1 National Govt. (Net) <sup>2</sup> | 748,726          | 859,126          | 900,383          | 1,358,379        | 1,430,555        | 1,458,846        | 1,608,650        | 1,756,825        |  |
| 7.2 Other Public Bodies               | 112,399          | 100,950          | 92,284           | 91,204           | 89,314           | 84,425           | 80,829           | 100,137          |  |
| 7.3 Private Sector <sup>3</sup>       | 2,418,192        | 2,490,088        | 2,667,874        | 2,889,526        | 2,945,619        | 2,981,133        | 3,059,152        | 3,136,803        |  |
| Sub-Total                             | 3,279,318        | 3,450,164        | 3,660,541        | 4,339,110        | 4,465,488        | 4,524,404        | 4,748,631        | 4,993,765        |  |
| <b>TOTAL ASSETS</b>                   | <b>3,797,711</b> | <b>4,166,259</b> | <b>4,466,982</b> | <b>5,088,280</b> | <b>5,158,720</b> | <b>5,310,389</b> | <b>5,412,704</b> | <b>5,586,098</b> |  |

Source: Central Bank of Kenya.

\* Provisional

Notes:

(a) Other Items Net Includes Special Drawing Rights allocated by IMF.

(b) Treasury Bill holdings by the non-bank public is not included in total liabilities of the banking system.

<sup>1</sup> Net Foreign Assets includes Government reserve position in the IMF and deposits with Crown Agents

<sup>2</sup> Includes Government reserve position in the IMF and deposits with Crown Agents

<sup>3</sup> Includes interest in suspense on non-performing loans

## Sources of Changes in Money Supply

**4.9.** Table 4.4 presents changes in money supply and their sources for the period 2017 to 2021. Broad Money supply (M3) increased by KSh 244.3 billion as at end of 2021 compared to a growth of KSh 466.9 billion as at end of 2020. The increase in the value of M3 was as a result of KSh 398.4 billion and KSh 247.3 billion increases in domestic credit to the

National Government and private sector, respectively. However, the growth in M3 was slowed by KSh 156.8 billion decline in Net Foreign Assets. Foreign currency deposits and Quasi-money increased by KSh 63.0 billion and KSh 53.4 billion, respectively as at end of the review period.

**Table 4.4: Changes in Money Supply and the Sources, 2017 – 2021**

|                             |                                    | 2017    | 2018    | 2019     | 2020     | KSh Million<br>2021* |
|-----------------------------|------------------------------------|---------|---------|----------|----------|----------------------|
| <b>MONEY SUPPLY CHANGES</b> |                                    |         |         |          |          |                      |
| 1                           | Currency plus demand deposits (M1) | 87,220  | 90,463  | 47,711   | 194,895  | 127,953              |
| 2                           | Quasi-money                        | 89,514  | 113,699 | 100,667  | 150,976  | 53,387               |
| 3                           | Foreign Currency Deposits          | 67,988  | 103,025 | 37,816   | 121,003  | 62,983               |
| 4                           | Broad Money supply (M3)            | 244,723 | 307,187 | 186,194  | 466,875  | 244,323              |
| <b>SOURCES OF CHANGES</b>   |                                    |         |         |          |          |                      |
| 5                           | Net foreign assets                 | 22,871  | 197,715 | 90,333   | -57,270  | -156,850             |
| 6                           | All Domestic Credit                |         |         |          |          |                      |
|                             | (a) to National Government (net)   | 167,077 | 110,387 | 41,271   | 457,996  | 398,458              |
|                             | (b) to other public sector         | 7,680   | -11,450 | -8,666   | -1,080   | 8,933                |
|                             | (c) to private sector              | 71,094  | 71,896  | 177,785  | 221,652  | 247,277              |
| 7                           | Other Items (net)                  | -24,000 | -61,361 | -114,529 | -154,424 | -253,494             |
| 8                           | Total sources of change (5+6+7)    | 244,723 | 307,187 | 186,194  | 466,875  | 244,323              |

Note: Changes in Money Supply and the sources compares year-end values

\* Provisional

## Selected Financial Aggregates in Real Values

**4.10.** Real values of selected financial aggregates deflated using the respective December consumer price indices for the period 2017 to 2021 are presented in Table 4.5. Broad money supply (M3) increased in real terms from KSh 3,567.6 billion as at end of 2020 to KSh 3,580.9 billion as at end of 2021. Total commercial bank credit to the private sector

grew marginally in real terms by 2.7 per cent to KSh 2,652.1 billion compared with a 2.1 per cent real growth in deposit liabilities of the commercial banks as at the end of 2021. Real values of overall liquidity, total commercial bank credit and total liabilities of the banking system recorded growths of 3.6, 11.2 and 3.8 per cent, respectively during the review period.

**Table 4.5: Real Values of Selected Financial Aggregates<sup>1</sup>, 2017 – 2021**

|                         |  |           |           |           | <b>KSh Million</b> |           |
|-------------------------|--|-----------|-----------|-----------|--------------------|-----------|
|                         |  | 2017      | 2018      | 2019      | 2020               | 2021*     |
| 1                       | Money Supply (M3).                       | 1,655,601 | 1,724,889 | 1,720,968 | 3,567,573          | 3,580,858 |
| 2                       | Overall Liquidity (L)                    | 2,242,398 | 2,354,976 | 2,359,473 | 5,064,289          | 5,244,049 |
| 3                       | Commercial bank credit to private sector | 1,382,428 | 1,285,058 | 1,302,864 | 2,384,884          | 2,652,149 |
| 4                       | Total commercial bank credit             | 1,776,606 | 1,831,395 | 1,875,995 | 3,906,046          | 4,164,286 |
| 5                       | Commercial Banks' Deposit Liabilities    | 1,765,907 | 1,764,615 | 1,775,160 | 3,665,429          | 3,743,349 |
| 6                       | Total liabilities of banking system      | 2,047,960 | 2,152,994 | 2,181,463 | 4,548,550          | 4,723,014 |
| <b>Memorandum item:</b> |  |           |           |           |                    |           |
| 7                       | Memorandum item:                         | 86.2      | 82.0      | 81.4      | 80.6               | 79.3      |

\* Provisional

<sup>1</sup>Selected financial aggregates values are deflated using December Consumer Price Indices

### Nominal and Real Interest Rates

**4.11.** During the year under review, the Central Bank of Kenya retained the Central Bank Rate (CBR) at 7.00 per cent. The 91-day Treasury Bill rate rose to 7.26 per cent in December 2021 from 6.90 per cent in December 2020. The savings deposit rate, overdraft rate and the interbank rate reduced to 2.55, 11.45 and 5.10 per cent in December 2021 from 2.70, 11.51

and 5.29 per cent, respectively in December 2020. However, loans and advances rate increased from 12.02 per cent in December 2020 to 12.16 per cent in December 2021. The loans-deposit interest rates spread declined from 5.73 per cent in December 2020 to 5.66 per cent in December 2021.

**Table 4.6: Nominal Principal Interest Rates, 2017 – 2021**

|                                     |  | 2017     | 2018     | 2019     | 2020     | 2021* |          |
|-------------------------------------|--|----------|----------|----------|----------|-------|----------|
|                                     |  | December | December | December | December | June  | December |
| <b>CENTRAL BANK OF KENYA</b>        |  |          |          |          |          |       |          |
| 91- day Treasury Bills Rate         |  | 8.01     | 7.34     | 7.17     | 6.90     | 7.03  | 7.26     |
| Central Bank Rate.                  |  | 10.00    | 9.00     | 8.50     | 7.00     | 7.00  | 7.00     |
| Repo rate.                          |  | 7.75     | 7.72     | 7.45     | 6.93     | 5.36  | 5.31     |
| Inter-bank rate.                    |  | 7.27     | 8.15     | 6.03     | 5.29     | 4.63  | 5.10     |
| <b>COMMERCIAL BANKS<sup>1</sup></b> |  |          |          |          |          |       |          |
| Average deposits                    |  | 8.22     | 7.41     | 7.11     | 6.30     | 6.37  | 6.50     |
| Savings deposits.                   |  | 6.91     | 5.13     | 4.02     | 2.70     | 2.55  | 2.55     |
| Loan and Advances (maximum)         |  | 13.64    | 12.51    | 12.24    | 12.02    | 12.02 | 12.16    |
| Overdraft.                          |  | 13.54    | 12.17    | 11.67    | 11.51    | 11.18 | 11.45    |
| Loans-Deposits Spread               |  | 5.41     | 5.09     | 5.14     | 5.73     | 5.64  | 5.66     |

Source: Central Bank of Kenya.

<sup>1</sup>Weighted average commercial bank interest rates

\*Provisional

**4.12.** Table 4.7 shows the selected real principal interest rates from 2017 to 2021. Real interest rates reflect the real cost of borrowing, savings and return on investment. The weighted average real interest rate for commercial bank deposits increased to 0.77 per cent in 2021 from 0.68 per cent in 2020. Commercial banks loans and advances rate increased

from 6.40 per cent in December 2020 to 6.43 per cent in December 2021. The real average interest rate for the 91-day Treasury Bills increased from 1.28 per cent in December 2020 to 1.53 per cent in December 2021 while the inter-bank rate declined further from negative 0.33 per cent in December 2020 to negative 0.63 per cent in December 2021.

**Table 4.7: Selected Real Principal Interest Rates, 2017 – 2021**

|  |             |                  | <i>Per cent</i> |                            |
|--|-------------|------------------|-----------------|----------------------------|
|  | Year        | Nominal Interest | Inflation Rate  | Real Interest <sup>1</sup> |
| <b>Average Interest Rate for 91-day Treasury Bills</b> | <b>2017</b> | <b>8.01</b>      | <b>4.50</b>     | <b>3.51</b>                |
|  | 2018        | 7.34             | 5.71            | 1.63                       |
|  | 2019        | 7.17             | 5.82            | 1.35                       |
|  | 2020        | 6.90             | 5.62            | 1.28                       |
|  | 2021*       | 7.26             | 5.73            | 1.53                       |
| <b>Commercial bank deposits (Weighted average)</b>     | <b>2017</b> | <b>8.22</b>      | <b>4.50</b>     | <b>3.72</b>                |
|  | 2018        | 7.41             | 5.71            | 2.72                       |
|  | 2019        | 7.11             | 5.82            | 1.29                       |
|  | 2020        | 6.30             | 5.62            | 0.68                       |
|  | 2021*       | 6.50             | 5.73            | 0.77                       |
| <b>Commercial bank loans and advances (maximum)</b>    | <b>2017</b> | <b>13.64</b>     | <b>4.50</b>     | <b>9.14</b>                |
|  | 2018        | 12.51            | 5.71            | 7.82                       |
|  | 2019        | 12.24            | 5.82            | 6.42                       |
|  | 2020        | 12.02            | 5.62            | 6.40                       |
|  | 2021*       | 12.16            | 5.73            | 6.43                       |
| <b>Inter-Bank Rate</b>                                 | <b>2017</b> | <b>7.27</b>      | <b>4.50</b>     | <b>2.77</b>                |
|  | 2018        | 8.15             | 5.71            | 2.44                       |
|  | 2019        | 6.03             | 5.82            | 0.21                       |
|  | 2020        | 5.29             | 5.62            | -0.33                      |
|  | 2021*       | 5.10             | 5.73            | -0.63                      |

Note: Interest rates are as at December

<sup>1</sup> Real Interest Rate equals Nominal Rate minus Inflation Rate

\*Provisional

**4.13.** Table 4.8 shows the assets and liabilities of the Central Bank of Kenya for the period 2017 to 2021. Total assets grew by 21.9 per cent as at the end of 2021 to KSh 1,489.7 billion compared to a growth of 7.6 per cent to KSh 1,478.8 billion as at the end of 2020. Balances with external banks and stocks of Special Drawing Rights (SDR) increased to KSh 258.7 billion and KSh 77.7 billion respectively, as at the end of 2021. The increase in SDRs holdings is attributed to an increase in allocation to member countries by International Monetary Fund (IMF) in 2021.

**Table 4.8: Central Bank of Kenya Assets and Liabilities, 2017 – 2021**

|   | KSh Million    |                  |                  |                  |                  |                  |                  |                  |
|---|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|   | 2017<br>Dec    | 2018<br>Dec      | 2019<br>Dec      | 2020<br>Dec      | 2021*            |                  |                  |                  |
| ASSETS  |                |                  |                  |                  | March            | June             | Septem-<br>ber   | Decem-<br>ber    |
| 1. Foreign Exchange:-                             |                |                  |                  |                  |                  |                  |                  |                  |
| 1.1 Balances with External Banks                  | 485,322        | 392,126          | 316,693          | 200,502          | 191,330          | 279,007          | 224,306          | 258,724          |
| 1.2 Securities                                    | 229,344        | 414,902          | 560,287          | 638,788          | 616,530          | 740,094          | 728,691          | 651,714          |
| 1.3 Other Investments                             | 38,693         | 40,304           | 56,101           | 85,285           | 73,727           | 76,985           | 64,599           | 83,475           |
| 1.4 Special Drawing Rights                        | 1,487          | 2,577            | 5,974            | 2,868            | 1,139            | 2,201            | 82,740           | 77,698           |
| <b>TOTAL</b>                                      | <b>754,846</b> | <b>849,909</b>   | <b>939,056</b>   | <b>927,442</b>   | <b>882,726</b>   | <b>1,098,287</b> | <b>1,100,336</b> | <b>1,071,610</b> |
| 2. Advances & Disc. to Banks                      | 28,292         | 53,210           | 50,685           | 70,018           | 68,587           | 67,439           | 66,079           | 76,387           |
| "3. Direct Advances & Overdraft to the Government | 42,335         | 64,843           | 63,730           | 132,877          | 49,283           | 59,279           | 55,110           | 59,313           |
| "4. Other Assets including Treasury Bills & Bonds | 80,507         | 95,627           | 81,476           | 90,827           | 173,871          | 248,283          | 257,264          | 282,403          |
| <b>TOTAL ASSETS</b>                               | <b>905,980</b> | <b>1,063,590</b> | <b>1,134,946</b> | <b>1,221,165</b> | <b>1,174,467</b> | <b>1,473,288</b> | <b>1,478,789</b> | <b>1,489,713</b> |
| LIABILITIES :                                     |                |                  |                  |                  |                  |                  |                  |                  |
| 1. Capital  | 5,000          | 5,000            | 35,000           | 35,000           | 35,000           | 35,000           | 35,000           | 35,000           |
| 2. Currency-                                      | 129,062        | 123,982          | 119,494          | 158,535          | 234,348          | 153,535          | 176,013          | 176,013          |
| 2.1 Notes   | 270,593        | 279,192          | 249,572          | 280,991          | 272,062          | 267,388          | 273,008          | 300,327          |
| 2.2 Coins   | 8,566          | 9,107            | 9,373            | 9,553            | 9,524            | 9,741            | 9,836            | 9,951            |
| <b>Total Currency</b>                             | <b>279,159</b> | <b>288,299</b>   | <b>258,945</b>   | <b>290,544</b>   | <b>281,586</b>   | <b>277,129</b>   | <b>282,844</b>   | <b>310,278</b>   |
| 3. Deposits                                       |                |                  |                  |                  |                  |                  |                  |                  |
| 3.1 Government                                    | 144,903        | 207,553          | 276,335          | 197,796          | 181,828          | 298,062          | 271,374          | 215,372          |
| 3.2 Local Banks <sup>1</sup>                      | 159,619        | 203,725          | 202,148          | 179,321          | 169,369          | 172,665          | 195,968          | 211,341          |
| 3.3 External Banks                                | 127,717        | 110,417          | 105,754          | 188,958          | 192,015          | 262,466          | 339,563          | 371,038          |
| 3.4 Other   | 41,389         | 71,704           | 73,371           | 100,670          | 85,425           | 143,477          | 106,399          | 96,335           |
| <b>TOTAL DEPOSITS</b>                             | <b>473,628</b> | <b>593,398</b>   | <b>657,607</b>   | <b>666,744</b>   | <b>628,638</b>   | <b>876,671</b>   | <b>913,304</b>   | <b>894,086</b>   |
| 4. Other Liabilities                              | 19,132         | 52,910           | 63,900           | 70,341           | -5,105           | 130,952          | 71,628           | 74,335           |
| <b>TOTAL LIABILITIES</b>                          | <b>905,980</b> | <b>1,063,590</b> | <b>1,134,946</b> | <b>1,221,165</b> | <b>1,174,467</b> | <b>1,473,288</b> | <b>1,478,789</b> | <b>1,489,713</b> |

Source: Central Bank of Kenya

\*Provisional

<sup>1</sup>Deposits from commercial banks excluding Non-Bank Financial Institutions (NBFIs)

**4.14.** The total credit advanced by commercial banks to both the public and private sectors is presented in Table 4.9(a). Total credit advanced by the commercial banks increased by 12.7 per cent as at the end of 2021 to KSh 4,925.3 billion from KSh 4,369.5 billion recorded as at end of December 2020. Credit advanced to the private sector represented 63.6 per cent of the total credit advanced by commercial banks as at the end of 2021.

**4.15.** Credit advanced to the National Government increased by 21.5 per cent from KSh 1,392.1 billion as at the end of December 2020 to KSh 1,691.6 billion as at the end of December 2021. The amount of credit to County Governments increased from KSh 5.7 billion as at the end of December 2020 to KSh 18.3 billion as at the end of December 2021. Commercial banks' credit to enterprises, parastatal bodies and other public entities declined by 4.3 per cent in the review period to KSh 81.9 billion. Credit advanced to manufacturing sector, agriculture, mining & quarrying increased by 13.1, 0.5 and 42.9 per cent, respectively as at the end of December 2021.

**Table 4.9(a): Commercial Banks' Bills, Loans and Advances<sup>1</sup>, 2017 – 2021**

|  | <i>KSh Million</i> |                  |                  |                  |                  |
|--|--------------------|------------------|------------------|------------------|------------------|
|  | 2017<br>Dec        | 2018<br>Dec      | 2019<br>Dec      | 2020<br>Dec      | 2021*<br>Dec     |
| <b>PUBLIC SECTOR:</b>  |                    |                  |                  |                  |                  |
| National Government (net) <sup>2</sup>                                     | 817,775            | 956,267          | 1,084,808        | 1,392,132        | 1,691,645        |
| County Government (net)  | 3,975              | 4,342            | 4,299            | 5,654            | 18,268           |
| Enterprises, Parastatal bodies and other Public entities                   | 108,424            | 96,608           | 87,985           | 85,550           | 81,869           |
| <b>TOTAL PUBLIC SECTOR</b>   | <b>930,174</b>     | <b>1,057,217</b> | <b>1,177,091</b> | <b>1,483,336</b> | <b>1,791,782</b> |
| <b>PRIVATE ENTERPRISES:</b>  |                    |                  |                  |                  |                  |
| Agriculture  | 84,697             | 83,005           | 80,990           | 93,418           | 93,883           |
| Mining and Quarrying   | 16,470             | 14,700           | 13,852           | 12,065           | 17,236           |
| Manufacturing  | 314,176            | 334,618          | 365,351          | 409,293          | 462,972          |
| Building, Construction and Real Estate <sup>3</sup>                        | 482,717            | 482,725          | 489,889          | 526,489          | 531,294          |
| Transport, Storage and Communication                                       | 190,531            | 172,695          | 186,665          | 212,059          | 242,308          |
| Wholesale and retail trade, hotels and restaurants                         | 417,376            | 429,314          | 467,420          | 485,042          | 526,470          |
| Financial Institutions   | 82,082             | 96,482           | 96,877           | 103,720          | 109,724          |
| Other Business   | 315,720            | 346,249          | 400,709          | 451,493          | 510,315          |
| <b>TOTAL PRIVATE ENTERPRISES</b>   | <b>1,903,769</b>   | <b>1,959,787</b> | <b>2,101,754</b> | <b>2,293,580</b> | <b>2,494,203</b> |
| Community and Personal Services (including Non-Profit Making Institutions) | 385,078            | 411,738          | 434,761          | 452,136          | 469,208          |
| Other Activities (nec)   | 127,076            | 115,190          | 127,867          | 140,486          | 170,074          |
| <b>TOTAL BILLS, LOANS AND ADVANCES</b>                                     | <b>3,318,907</b>   | <b>3,543,932</b> | <b>3,841,474</b> | <b>4,369,538</b> | <b>4,925,267</b> |

Source: Central Bank of Kenya

<sup>1</sup> Commercial Banks' bills, loans and advances excludes portfolio investment by private enterprises and bank deposits placed with non-bank financial institutions.

<sup>2</sup> Data on Credit to National Government includes investments in Government Securities

<sup>3</sup> Series revised combining activities of building, construction and real estate.

\*Provisional

**4.16.** Table 4.9(b) shows the shares of total credit advanced by commercial banks to various sectors of the economy for the period 2017 to 2021. Overall share of credit advanced to the public sector during the review period increased to 36.4 per cent from 33.9 per cent recorded as at end of December 2020. The share of overall credit advanced to the National Government increased to 34.3 per cent as at end of

December 2021 compared to a share of 31.9 per cent recorded as at the end of December 2020. However, the share of credit advanced to the private sector decreased marginally to 50.6 per cent as at end of December 2021 from 52.5 per cent as at December 2020. Notably, among private enterprises, Building, Construction and Real Estate had the highest share at 10.8 per cent as at December 2021.

**Table 4.9(b): Commercial Banks' Bills, Loans and Advances Sector Shares<sup>1</sup>, 2017 – 2021**

|  | Per cent     |              |              |              |              |
|--|--------------|--------------|--------------|--------------|--------------|
|  | 2017<br>Dec  | 2018<br>Dec  | 2019<br>Dec  | 2020<br>Dec  | 2021*<br>Dec |
| <b>PUBLIC SECTOR:</b>  |              |              |              |              |              |
| National Government (net) <sup>2</sup>                                     | 24.6         | 27.0         | 28.2         | 31.9         | 34.3         |
| County Government (net)  | 0.1          | 0.1          | 0.1          | 0.1          | 0.4          |
| Enterprises, Parastatal bodies and other Public entities                   | 3.3          | 2.7          | 2.3          | 2.0          | 1.7          |
| <b>TOTAL PUBLIC SECTOR</b>   | <b>28.0</b>  | <b>29.8</b>  | <b>30.6</b>  | <b>33.9</b>  | <b>36.4</b>  |
| <b>PRIVATE ENTERPRISES:</b>  |              |              |              |              |              |
| Agriculture  | 2.6          | 2.3          | 2.1          | 2.1          | 1.9          |
| Mining and Quarrying   | 0.5          | 0.4          | 0.4          | 0.3          | 0.3          |
| Manufacturing  | 9.5          | 9.4          | 9.5          | 9.4          | 9.4          |
| Building, Construction and Real Estate <sup>3</sup>                        | 14.5         | 13.6         | 12.8         | 12.0         | 10.8         |
| Transport, Storage and Communication                                       | 5.7          | 4.9          | 4.9          | 4.9          | 4.9          |
| Wholesale and retail trade, hotels and restaurants                         | 12.6         | 12.1         | 12.2         | 11.1         | 10.7         |
| Financial Institutions   | 2.5          | 2.7          | 2.5          | 2.4          | 2.2          |
| Other Business   | 9.5          | 9.8          | 10.4         | 10.3         | 10.4         |
| <b>TOTAL PRIVATE ENTERPRISES</b>   | <b>57.4</b>  | <b>55.3</b>  | <b>54.7</b>  | <b>52.5</b>  | <b>50.6</b>  |
| Community and Personal Services (including Non-Profit Making Institutions) | 11.6         | 11.6         | 11.3         | 10.3         | 9.5          |
| Other Activities (nec)   | 3.8          | 3.3          | 3.3          | 3.2          | 3.5          |
| <b>TOTAL BILLS, LOANS AND ADVANCES</b>                                     | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> | <b>100.0</b> |

Source: Central Bank of Kenya

<sup>1</sup>Commercial Banks' bills, loans and advances excludes portfolio investment by private enterprises and bank deposits placed with non-bank financial institutions.

<sup>2</sup>Data on Credit to National Government includes investments in Government Securities

<sup>3</sup>Series revised combining activities of building, construction and real estate.

\*Provisional

**4.17.** Table 4.10 presents commercial banks' deposit liabilities and liquid assets from 2017 to 2021. The overall liquidity ratio for commercial banks as at the end of 2021 increased to 59.3 per cent compared to 56.5 per cent recorded as at end of December 2020. Liquid assets grew by 13.5 per cent from KSh 2,315.3 billion as at December 2020 to KSh 2,626.8

billion as at end of December 2021. Deposit liabilities increased significantly by KSh 327.0 billion to KSh 4,427.4 billion as at end of 2021 from KSh 4,100.4 billion recorded as at end of 2020. During the review period, the highest value of deposit liabilities was recorded in August at KSh 4,452.4 billion.

**Table 4.10: Commercial Banks' Deposit Liabilities and Liquid Assets, 2017 – 2021**

|       |           | Deposit Liabilities <sup>1</sup><br>(KSh Million) | Liquid Assets <sup>2</sup><br>(KSh Million) | Overall Liquidity Ratio<br>(Per cent) |
|-------|-----------|---|---|---------------------------------------|
| 2017  | December  | 3,068,346   | 1,444,155                                   | 47.1                                  |
| 2018  | December  | 3,414,706   | 1,726,988                                   | 50.6                                  |
| 2019  | December  | 3,634,996   | 1,911,337                                   | 52.6                                  |
| 2020  | December  | 4,100,369   | 2,315,261                                   | 56.5                                  |
| 2021* | January   | 4,111,058   | 2,323,199                                   | 56.5                                  |
|       | February  | 4,190,839   | 2,380,674                                   | 56.8                                  |
|       | March     | 4,211,485   | 2,403,133                                   | 57.1                                  |
|       | April     | 4,239,813   | 2,431,371                                   | 57.3                                  |
|       | May       | 4,263,939   | 2,455,458                                   | 57.6                                  |
|       | June      | 4,303,875   | 2,468,004                                   | 57.3                                  |
|       | July      | 4,384,464   | 2,500,857                                   | 57.0                                  |
|       | August    | 4,452,380   | 2,559,451                                   | 57.5                                  |
|       | September | 4,398,757   | 2,516,030                                   | 57.2                                  |
|       | October   | 4,434,970   | 2,537,891                                   | 57.2                                  |
|       | November  | 4,445,756   | 2,544,813                                   | 57.2                                  |
|       | December  | 4,427,409   | 2,626,849                                   | 59.3                                  |

Source: Central Bank of Kenya.

<sup>1</sup> Deposits and Liquid Assets are calculated as an average of three days balances.

<sup>2</sup> Includes notes and coins, balances at Central Bank, net inter-bank balances in Kenya and Overseas (included only if positive) and Treasury Bills.

\*Provisional

### Deposit Taking Savings and Credit Cooperatives

**4.18.** Table 4.11 presents key performance indicators of the deposit taking savings and credit cooperatives for the period 2017 to 2021. The assets for deposit taking, savings and credit co-operatives increased by 11.0 per cent from KSh 630.9 billion in 2020 to KSh 700.3 billion in 2021. The deposits, and loans and advances increased by 25.4 per cent and 16.0 per cent to KSh 540.6 billion and KSh 523.0 billion in 2021, respectively.

**Table 4.11: Key Performance Indicators for Deposit Taking Savings and Credit Cooperatives, 2017 – 2021**

| Indicator          | 2017    | 2018    | 2019    | 2020    | KSh Million<br>2021* |
|--------------------|---------|---------|---------|---------|----------------------|
| Assets             | 442,919 | 497,276 | 555,917 | 630,884 | 700,258              |
| Deposits           | 305,305 | 342,296 | 381,081 | 431,094 | 540,578              |
| Loans and Advances | 320,494 | 358,617 | 401,994 | 450,841 | 523,018              |
| Capital Reserves   | 84,117  | 107,113 | 175,183 | 142,907 | 144,028              |

Source: Sacco Society Regulatory Authority (SASRA)

\*Provisional

## Capital Markets

**4.19.** Table 4.12 presents the gross secondary capital market statistics from 2017 to 2021. Market capitalization and bonds turnover increased by 11.0 per cent and 38.3 per cent to KSh 2,592.9 billion and KSh 957.0 billion in 2021, respectively. The total number of shares traded decreased by 1,213.4 million in 2021 from 5,264.5 million in 2020. The total value of shares traded reduced by 7.6 per cent from KSh

148.7 billion in 2020 to KSh 137.4 billion in 2021. Total number of deals increased from 263,907 in 2020 to 277,611 in 2021 while the Nairobi Securities Exchange (NSE) 20 share index increased from 1,868 points in 2020 to 1,903 points in 2021. The number of licensed institutions increased to 161 in 2021 from 148 in 2020.

**Table 4.12: Gross Secondary Market Statistics, 2017–2021**

|   | 2017       | 2018       | 2019       | 2020       | 2021 *     |
|---|------------|------------|------------|------------|------------|
| <b>Equities Market</b>                                    |            |            |            |            |            |
| Total No. of Shares Traded (million)                      | 7,065.0    | 6,336.0    | 4,832.0    | 5,264.5    | 4,051.1    |
| Total No. of Deals  | 284,982    | 305,597    | 247,815    | 263,907    | 277,611    |
| Total Value of Shares Traded (KSh billion)                | 171.6      | 175.7      | 153.8      | 148.7      | 137.4      |
| NSE 20 Share Index (Base Jan 1966=100)                    | 3,712      | 2,801      | 2,654      | 1,868      | 1,903      |
| Market Capitalization (KSh billion)                       | 2,521.8    | 2,102.0    | 2,540.0    | 2,336.7    | 2,592.9    |
| <b>Fixed Income Securities Market</b>                     |            |            |            |            |            |
| Total bond Turnover (KSh billion)                         | 435.9      | 562.7      | 651.7      | 691.8      | 957.0      |
| <b>"Capital Markets, Licensed/ approved Institutions"</b> |            |            |            |            |            |
| Securities Exchange (NSE)                                 | 1          | 1          | 1          | 1          | 1          |
| Central Depositories (CDSC)                               | 1          | 1          | 1          | 1          | 1          |
| Investment Banks  | 13         | 13         | 16         | 15         | 15         |
| Stockbrokers  | 9          | 9          | 10         | 9          | 9          |
| Investment advisers                                       | 13         | 13         | 14         | 14         | 17         |
| Fund Managers   | 27         | 27         | 24         | 24         | 26         |
| Collective Investment Schemes                             | 22         | 22         | 24         | 24         | 29         |
| Authorized depositaries/Custodians                        | 14         | 14         | 19         | 18         | 20         |
| Credit Rating Agencies                                    | 3          | 3          | 4          | 5          | 5          |
| Real Estate Investment Trust(REIT) Managers               | 7          | 7          | 9          | 10         | 10         |
| Real Estate Investment Trust (REIT) Trustees              | 3          | 3          | 3          | 3          | 3          |
| Employee Share Ownership Plans (ESOPS)                    | 13         | 13         | 16         | 14         | 14         |
| Authorized Real Estate Investment Trusts                  | 1          | 1          | 1          | 3          | 3          |
| Authorised Securities Dealer                              | 1          | 2          | 3          | 2          | 2          |
| Non-Dealing Online Foreign Exchange Broker                | ..         | 1          | 2          | 4          | 6          |
| Money Manager   | ..         | ..         | 1          | 1          | ..         |
| <b>Total</b>  | <b>128</b> | <b>130</b> | <b>148</b> | <b>148</b> | <b>161</b> |

Source: Capital Markets Authority

\* Provisional

.. Data not available

### Selected Insurance Indicators

**4.20.** Table 4.13 presents performance indicators for life insurance business from 2017 to 2021. Total assets of life insurance business grew by 14.0 per cent to KSh 564.8 billion in December 2021 while total assets under the reinsurance life grew by 7.8 per cent over the same review period. On the other hand, total liabilities of life insurance business grew by 15.3 per cent to KSh 508.1 billion, while those of reinsurance life recorded a decline of 55.3 per cent under the review period.

**4.21.** In 2021, life insurance business recorded growth in gross premiums of 21.2 per cent while reinsurance life recorded a growth in gross premium of 0.5 per cent. Benefits payments and commissions in life insurance business grew by 19.4 per cent and 15.5 per cent to KSh 78.3 billion and KSh 6.7 billion respectively, during the review period. The growth in benefits payments and commissions is attributed to significant growths of 20.7 per cent and 14.1 per cent in net premiums and investments, respectively.

**Table 4.13: Performance Indicators for Life Insurance Business, 2017–2021**

| Indicator                      | 2017    | 2018    | 2019    | 2020    | KSh Million<br>2021* |
|--------------------------------|---------|---------|---------|---------|----------------------|
| <b>Life Insurance Business</b> |         |         |         |         |                      |
| Gross Premium Income           | 82,971  | 87,408  | 97,669  | 102,078 | 123,713              |
| Net Premium Income             | 77,165  | 80,360  | 90,545  | 95,327  | 115,056              |
| Benefits Payment               | 45,912  | 52,670  | 54,056  | 65,594  | 78,306               |
| Commissions                    | 5,357   | 4,888   | 5,926   | 5,793   | 6,692                |
| Management Expenses            | 12,020  | 13,928  | 15,023  | 14,382  | 15,489               |
| Shareholders' Funds            | 45,962  | 41,352  | 52,128  | 54,890  | 56,764               |
| Total Assets                   | 353,608 | 392,262 | 451,868 | 495,377 | 564,815              |
| Total Liabilities              | 307,646 | 350,910 | 399,740 | 440,486 | 508,051              |
| Investments                    | 318,922 | 354,778 | 415,350 | 459,559 | 524,349              |
| <b>Reinsurance-Life</b>        |         |         |         |         |                      |
| Gross Premium Income           | 2,771   | 3,254   | 3,792   | 3,146   | 3,130                |
| Net Premium Income             | 2,445   | 2,919   | 3,393   | 2,817   | 2,784                |
| Benefits Payment               | 1,208   | 1,293   | 1,553   | 1,964   | 2,237                |
| Commissions                    | 672     | 781     | 989     | 824     | 821                  |
| Management Expenses            | 313     | 329     | 381     | 259     | 233                  |
| Shareholders' Funds            | 5,164   | 6,322   | 7,038   | 1,716   | 8,778                |
| Total Assets                   | 9,923   | 12,137  | 13,342  | 17,526  | 16,157               |
| Total Liabilities              | 4,759   | 5,815   | 6,304   | 15,810  | 7,379                |
| Investments                    | 9,029   | 10,626  | 12,101  | 15,965  | 14,898               |

Source: Insurance Regulatory Authority

\* Provisional

**4.22.** Table 4.14 presents performance indicators for general insurance business from 2017 to 2021. Total assets declined by 0.3 per cent to KSh 198.0 billion in 2021 compared with a growth of 11.4 per cent in total assets of reinsurance general business. Total liabilities of general business and reinsurance general business grew by 3.4 per cent and 21.1 per cent to KSh 128.9 and KSh 22.7 billion, respectively in the same period.

**4.23.** As at December 2021, gross premium income for general business grew by 12.1 per cent to KSh

148.8 billion while claims incurred grew by 16.6 per cent to KSh 68.0 billion over the same period. In contrast, claims incurred under reinsurance general business contracted by 8.8 per cent in December 2021. However, gross premiums recorded a positive growth of 20.2 per cent to KSh 28.1 billion. Over the review period, general business recorded a 2.1 per cent growth in investments, while reinsurance general business investments grew by 7.1 per cent, mainly due to an increase in net premium income of 11.2 per cent in general business and 20.3 per cent in reinsurance general business.

**Table 4.14: Performance Indicators for General Insurance Business, 2017–2021**

| Indicator                           | 2017    | 2018    | 2019    | 2020    | KSh Million<br>2021* |
|-------------------------------------|---------|---------|---------|---------|----------------------|
| <b>General Business</b>             |         |         |         |         |                      |
| Gross Premium Income                | 124,709 | 127,512 | 129,450 | 132,698 | 148,761              |
| Net Premium Income                  | 87,552  | 91,963  | 91,566  | 92,526  | 102,894              |
| Net Earned Premium Income           | 90,044  | 91,084  | 90,667  | 91,620  | 98,520               |
| Claims Incurred                     | 54,861  | 56,928  | 57,601  | 58,311  | 68,015               |
| Commissions                         | 6,819   | 6,600   | 6,082   | 5,364   | 6,475                |
| Management Expenses                 | 27,808  | 30,144  | 29,956  | 29,792  | 30,373               |
| Shareholders' Funds                 | 70,397  | 72,042  | 73,352  | 73,845  | 68,992               |
| Total Assets                        | 179,023 | 185,691 | 190,132 | 198,653 | 197,985              |
| Total Liabilities                   | 108,626 | 113,649 | 116,781 | 124,807 | 128,992              |
| Investments                         | 117,483 | 123,175 | 125,946 | 135,769 | 138,566              |
| <b>Reinsurance-General business</b> |         |         |         |         |                      |
| Gross Premium Income                | 17,494  | 17,692  | 20,984  | 23,366  | 28,089               |
| Net Premium Income                  | 16,778  | 16,168  | 19,498  | 21,547  | 25,927               |
| Net Earned Premium Income           | 15,931  | 16,381  | 18,001  | 24,255  | 24,690               |
| Claims Incurred                     | 9,218   | 10,264  | 11,793  | 15,135  | 13,800               |
| Commissions                         | 4,560   | 4,515   | 4,993   | 6,273   | 6,755                |
| Management Expenses                 | 1,900   | 2,098   | 3,363   | 2,571   | 3,383                |
| Shareholders' Funds                 | 26,640  | 29,419  | 31,247  | 35,618  | 37,838               |
| Total Assets                        | 42,290  | 44,945  | 50,204  | 54,377  | 60,556               |
| Total Liabilities                   | 15,650  | 15,526  | 18,957  | 18,759  | 22,718               |
| Investments                         | 32,763  | 35,658  | 39,367  | 45,168  | 48,368               |

Source: Insurance Regulatory Authority

\* Provisional

## Pension Funds

**4.24.** During the year under review, assets of pension funds increased by 10.6 per cent to KSh 1,547.4 billion in December 2021 from KSh 1,399.0 billion as at end of December 2020, as shown in Table 4.15. Investments in government securities grew to KSh

707.0 billion, a growth of 8.4 per cent in 2021 compared to a growth of 4.2 per cent in 2020. Similarly, holdings of quoted equities increased by 14.5 per cent in 2021 as activity in capital markets recovered from the impact of COVID-19.

**Table 4.15: Assets of Pension Funds, 2017-2021**

| Asset item  | Jun-17 | Dec-17  | Jun-18  | Dec-18  | Jun-19  | Dec-19  | Jun-20  | Dec-20  | Jun-21* | Dec-21* |
|---|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Government Securities                                   | 353.5  | 394.2   | 423.7   | 459.7   | 518.4   | 563.4   | 581.8   | 625.7   | 652.1   | 707.0   |
| Quoted Equities   | 180.4  | 210.2   | 241.5   | 201.5   | 203.6   | 234.6   | 187.5   | 218.1   | 249.8   | 254.6   |
| Immovable Property                                      | 204.6  | 226.7   | 229.3   | 229.9   | 233.6   | 238.5   | 246.1   | 251.3   | 247.4   | 254.5   |
| Guaranteed Funds  | 103.7  | 143.0   | 159.6   | 167.5   | 186.5   | 201.6   | 221.4   | 230.6   | 247.5   | 259.8   |
| Listed Corporate Bonds                                  | 46.8   | 42.0    | 41.5    | 40.3    | 34.5    | 19.6    | 9.2     | 5.3     | 2.9     | 6.8     |
| Fixed Deposits  | 45.5   | 32.9    | 31.6    | 36.4    | 40.0    | 39.4    | 44.8    | 39.0    | 37.1    | 27.9    |
| Offshore  | 9.7    | 12.8    | 15.0    | 13.1    | 7.2     | 6.3     | 5.9     | 11.4    | 16.7    | 19.4    |
| Cash  | 13.9   | 13.0    | 19.0    | 12.7    | 15.8    | 15.0    | 21.8    | 12.2    | 17.9    | 9.5     |
| Unquoted Equities                                       | 3.9    | 4.1     | 3.8     | 3.8     | 3.7     | 3.6     | 2.5     | 3.4     | 3.4     | 3.5     |
| Private Equity  | 0.3    | 0.3     | 0.4     | 0.9     | 0.9     | 1.0     | 1.2     | 1.7     | 2.5     | 3.0     |
| Real Estate Investment Trusts(REITs)                    | 0.9    | 1.0     | 1.0     | 0.7     | 0.6     | 0.5     | 0.3     | 0.3     | 0.1     | 0.4     |
| Commercial paper, non-listed bonds by private companies | 0.0    | 0.1     | 0.2     | 0.1     | 0.1     | 0.1     | 0.1     | 0.0     | 0.0     | 0.0     |
| Other Assets  | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.7     | 1.1     |
| Total   | 963.1  | 1,080.1 | 1,166.7 | 1,166.5 | 1,244.9 | 1,323.5 | 1,322.6 | 1,399.0 | 1,478.1 | 1,547.5 |

Source: Retirement Benefits Authority

\*Provisional

## Developments in the Financial Sector

**4.25.** In December 2021 the Central Bank of Kenya (Amendment) Act, 2021, came into effect. The Amended Act enables the Central Bank of Kenya to license and oversight the previously unregulated digital credit providers. This development is expected to expand the scope and reporting for various financial indicators including interest rates for digital loans.

**4.26.** On June 8, 2021, CBK reviewed the capital adequacy risk weighting for all residential mortgag-

es from 50 per cent to 35 per cent in an attempt to increase banks' lending capacity for residential mortgages. In addition, CBK issued guidelines on Climate-Related Risk Management to the banking sector on October 15, 2021 with an aim of enabling banks to mitigate climate-related risks while leveraging on opportunities in the transition to a low carbon climate-resilient economy.

**4.27.** In the capital market sector, Nairobi Securities

Exchange (NSE) launched day trading of shares in November 2021 following approval by the regulator, Capital Markets Authority (CMA), making Kenya the first frontier market to launch day trading. Day trading is the practice of purchasing and selling a security within a single day or trading session or multiple times over the course of the day. On the other hand, the regulator, Capital Market Authority issued a guidance on share buy backs for listed companies in November 2021 aimed at enhancing investor protection and promoting orderly capital markets.

**4.28** the pensions sector, the Public Service Superannuation Scheme (PSSS) was effected in January 2021 following the enactment of the Public Service Superannuation Scheme Act, 2012. The PSSS is a contributory scheme, with members estimated at 352,000 in December 2021. The government had been operating a non-contributory pension scheme since independence fully financed by the Exchequer.



# Public Finance

## Overview

In the fiscal year 2021/22, the Government continued to implement policy measures aimed at stimulating resilient and sustainable economic recovery which included re-instatement of taxes on income. In terms of fiscal policy, the Government focused on reduction of the fiscal deficit by enhancing revenue mobilization and expenditure prioritization. Additionally, the Government strengthened implementation of programs and strategies that ensured more inclusive growth, fostering macroeconomic stability and availing liquidity to the private sector.

5.2. During 2021/22, the National Government revenue collection is expected to increase as a result of an improved business environment occasioned by easing of COVID-19 containment measures. The National Government total revenue including grants; is expected to grow by 15.7 per cent from KSh 1,815.1 billion in 2020/21 to KSh 2,100.7 billion in 2021/22 while expenses are expected to grow by 1.4 per cent to KSh 2,672.0 billion in 2021/22. Recurrent expenditure is estimated to grow by 2.9 per cent to KSh 2,314.1 billion while development expenditure is expected to decrease by 7.0 per cent to KSh 358.0 billion in 2021/22. Total stock of National Government debt was KSh 7,188.1 billion as at end of June 2021, with external debt accounting for 53.5 per cent of the total debt. A total of KSh 1,094.0 billion is expected to be spent on National Government debt servicing.

5.3. The total County Government revenues are estimated to increase to KSh 466.6 billion in 2021/22 from KSh 397.9 billion received in 2020/21, translating to a growth of 17.3 per cent. The revenues comprise of KSh 370.0 billion as equitable share of the revenue, KSh 39.9 billion conditional grant and KSh 56.7 billion as own source revenue during 2021/22. Expenditure by the County Governments is expected to increase by 21.0 per cent from KSh 425.0 billion in 2020/21 to KSh 514.3 billion in 2021/22.

### National Government

**5.4.** Table 5.1 details the statement of the National Government operations for the period 2017/18 to 2021/22. During the fiscal year 2021/22, total revenue including grants, is expected to grow by 15.7 per cent from KSh 1,815.1 billion to KSh 2,100.7 billion, while expenses are estimated to rise by 1.4 per cent to KSh 2,672.0 billion.

**Table 5.1: Statement of National Government Operations, 2017/18-2021/22**

|  | <i>KSh Million</i> |                    |                    |                    |                    |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
|  | <b>2017/18</b>     | <b>2018/19</b>     | <b>2019/20*</b>    | <b>2020/21*</b>    | <b>2021/22*</b>    |
| 1. Revenue <sup>1</sup>                                  | 1,549,875.82       | 1,733,668.82       | 1,815,796.58       | 1,815,098.40       | 2,100,679.91       |
| 2. Expense   | 2,018,655.91       | 2,223,927.23       | 2,490,667.17       | 2,634,561.07       | 2,672,042.92       |
| 2.1 Current Expenditure                                  | 1,766,703.26       | 1,929,382.36       | 2,055,923.49       | 2,249,483.23       | 2,314,066.32       |
| 2.2 Capital Transfers                                    | 251,952.65         | 294,544.87         | 434,743.68         | 385,077.84         | 357,976.60         |
| <b>3. Gross Operating Balance (1-2)</b>                  | <b>-468,780.09</b> | <b>-490,258.40</b> | <b>-674,870.59</b> | <b>-819,462.67</b> | <b>-571,363.01</b> |
| 4. Acquisition of Non-Financial Assets(net) <sup>2</sup> | 191,994.61         | 185,064.82         | 105,088.64         | 92,974.33          | 93,136.65          |
| <b>5. Net lending/Borrowing (3-4)</b>                    | <b>-660,774.70</b> | <b>-675,323.22</b> | <b>-569,781.96</b> | <b>-726,488.34</b> | <b>-478,226.36</b> |
| <b>FINANCING (6-7)</b>                                   | <b>-614,662.82</b> | <b>-613,823.76</b> | <b>-717,804.68</b> | <b>-462,297.11</b> | <b>-542,578.37</b> |
| 6. Net Acquisition of financial assets                   | 18,301.34          | 16,942.82          | 21,805.12          | 32,844.77          | 17,683.39          |
| 6.1. Domestic  | 18,301.34          | 16,942.82          | 21,805.12          | 32,844.77          | 17,683.39          |
| 6.2. External  | 0.00               | 0.00               | 0.00               | 0.00               | 0.00               |
| 7. Net Incurrence of liabilities                         | 707,526.84         | 723,820.11         | 437,202.00         | 495,141.88         | 560,261.76         |
| 7.1. Domestic  | 352,549.94         | 309,302.58         | 315,362.00         | 388,829.56         | 421,896.89         |
| 7.2. Foreign   | 354,976.90         | 414,517.54         | 121,840.00         | 106,312.32         | 126,059.38         |
| <b>MEMORANDUM ITEMS:</b>                                 |                    |                    |                    |                    |                    |
| 8. Public debt redemption                                | 344,334.90         | 475,483.17         | 315,290.54         | 490,233.03         | 546,010.32         |
| 8.1. External  | 150,282.37         | 266,241.02         | 101,600.00         | 128,278.00         | 202,066.07         |
| 8.2. Internal  | 194,052.52         | 209,242.15         | 213,690.54         | 361,955.03         | 343,944.24         |

\* Provisional

<sup>†</sup> Revised

<sup>‡</sup> includes grants

<sup>§</sup> Acquisition of non financial assets(net) equals acquisition of non financial assets minus gross disposal of non financial assets

**5.5.** Table 5.2 presents analysis of the key fiscal ratios from 2017/18 to 2021/22. Gross operating balance as a percentage of revenue is estimated at negative 27.2 per cent from negative 45.2 per cent in 2020/21. Net lending/borrowing as a percentage of revenue is estimated to improve from a deficit of 40.0 per cent to a deficit of 22.8 per cent in 2021/22. Over the same period, net lending/borrowing position

as a percentage of total expenditure is expected to improve from negative 27.6 per cent to negative 17.9 per cent. Revenue as a percentage of Gross Domestic Product (GDP) at current market prices is expected to increase to 17.4 per cent while total government expenditure as a percentage of GDP at current market prices is expected to decrease to 27.9 per cent.

**Table 5.2: Analysis of Key Fiscal Ratios, 2017/18 - 2021/22**

|   | 2017/18 | 2018/19 | 2019/20* | 2020/21† | 2021/22† |
|---|---------|---------|----------|----------|----------|
| Gross operating balance as a % of Revenue                                   | -29.28  | 27.35   | -37.17   | -45.15   | -27.20   |
| Gross operating balance as a % of Acquisition of Non financial assets (net) | -238.15 | -258.09 | -642.19  | -881.39  | -613.47  |
| Ratio of Acquisition of Non financial assets (net) to Current Expenditure   | 10.87   | 9.59    | 0.05     | 0.04     | 0.04     |
| Net lending/Borrowing as % of Revenue                                       | -41.58  | -37.95  | -31.38   | -40.02   | -22.77   |
| Net lending/Borrowing as % of Total Expenditure                             | -25.23  | -22.88  | -22.88   | -27.58   | -17.90   |
| External Grants and Loans as % of Acquisition of Non financial assets (net) | 199.26  | 199.36  | 323.95   | 347.74   | 291.17   |
| Net Short-Term Borrowing as % of Acquisition of nonfinancial assets (net)   | 90.84   | 38.60   | -68.39   | -102.36  | -69.60   |
| Revenue as % of GDP at Current Market Prices                                | 17.39   | 17.69   | 17.74    | 16.94    | 17.36    |
| Total Government Expenditure as % of GDP at Current Market Prices           | 28.91   | 30.06   | 29.30    | 30.72    | 27.89    |
| Net lending/Borrowing as % of GDP at Current Market Prices                  | -7.41   | -6.89   | -5.57    | -6.78    | -3.95    |

\*Provisional

†Revised

**5.6.** Comparison of National Government budgetary estimates with the actual out-turns for the period 2018/19 to 2021/22 is provided in Table 5.3. For the year 2020/21, actual revenue collected was KSh 1,783.8 billion which was below the set target of KSh 1,837.8 billion by 2.9 per cent.

**Table 5.3: Comparison of National Government Budget Estimates with Actual Out-turns, 2018/19 – 2021/22**

|                                       | KSh Million  |               |              |                |                |             |
|---------------------------------------|--------------|---------------|--------------|----------------|----------------|-------------|
|                                       | 2018/19      |               |              | 2019/20*       |                |             |
|                                       | Budget       | Actual        | Difference   | Budget         | Actual         | Difference  |
| Total Ordinary Revenue                | 1,794,522.17 | 1,704,362.53  | -80,555.16   | 1,573,418.45   | 1,795,976.83   | 222,770.91  |
| Recurrent Expenditure <sup>1</sup>    | 1,947,932.11 | 2,375,052.84  | 427,120.74   | 2,291,413.24   | 2,339,114.26   | 47,701.02   |
| Recurrent Balance                     | -153,409.94  | -670,690.32   | -522,825.61  | -717,994.79    | -545,360.98    | 175,069.89  |
| Development Expenditure               | 607,199.40   | 569,745.19    | -37,454.21   | 594,943.67     | 608,460.56     | 13,516.90   |
| External Financing (Net) <sup>2</sup> | 479,840.96   | 368,947.00    | -110,893.96  | 340,431.33     | 360,251.07     | 19,819.74   |
| Balance for Domestic Financing (Net)  | -280,768.38  | -871,488.51   | -596,265.36  | -972,507.12    | -843,379.44    | 270,978.21  |
|                                       | 2020/21*     |               |              | 2021/22*       |                |             |
|                                       | Budget       | Actual        | Difference   | Printed Budget | Revised Budget | Difference  |
| Total Ordinary Revenue                | 1,837,835.12 | 1,783,777.97  | 54,057.15    | 1,783,777.97   | 2,038,677.60   | -261,068.87 |
| Recurrent Expenditure <sup>1</sup>    | 1,783,746.54 | 2,706,990.35  | -923,243.80  | 2,706,990.35   | 2,882,145.13   | -485,745.84 |
| Recurrent Balance                     | 54,088.58    | -923,212.38   | 977,300.96   | -923,212.38    | -843,467.53    | 224,676.97  |
| Development Expenditure               | 10,893.00    | 584,838.05    | -573,945.05  | 584,838.05     | 491,677.88     | 68,549.31   |
| External Financing <sup>2</sup> (Net) | 417,552.85   | 323,309.58    | 94,243.27    | 323,309.58     | 271,182.17     | 52,127.41   |
| Balance for Domestic Financing (Net)  | 460,748.44   | -1,184,740.84 | 1,645,489.27 | -1,184,740.84  | -1,063,963.24  | 208,255.07  |

Source: The National Treasury

<sup>1</sup> Provisional<sup>2</sup> Revised<sup>1</sup> Recurrent expenditure consists of current expenditure , acquisition of non financial assets (net), Consolidated Fund Services and current transfers to county governments<sup>2</sup> Includes external grants

**5.7.** Table 5.4 presents the National Government's gross receipts on recurrent account from 2017/18 to 2021/22. The total ordinary revenue which comprises of both tax and non-tax revenue is estimated to grow by 14.3 per cent from KSh 1,783.8 billion in 2020/21 to KSh 2,038.7 billion in 2021/22. Tax revenue is expected to account for 89.9 per cent of the overall ordinary revenue, growing by 20.6 per cent to KSh 1,831.9 billion in 2021/22. Taxes on income are expected to account for 45.7 per cent of the total tax revenue in 2020/21 and are estimated to rise by 20.2 per cent from KSh 694.1 billion to KSh

834.5 billion in 2021/22. This is partly attributable to the reinstatement of the relaxed Pay As You Earn (PAYE) which was intended to cushion the economy during the COVID-19 pandemic. The Value Added Tax (VAT) category which accounts for 25.8 per cent of the total tax revenue is estimated to increase by 15.1 per cent from KSh 410.8 billion in 2020/21 to KSh 472.9 billion in 2021/22. The non-tax revenue, which is estimated at 10.1 per cent of the total ordinary revenue, is expected to decrease by 22.1 per cent from KSh 265.4 billion to KSh 206.8 billion during the review period.

**Table 5.4: National Government Gross Receipts on the Recurrent Account, 2017/18 - 2021/22**

|  | <i>KSh Million</i>  |                     |                     |                     |                     |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
|  | <b>2017/18</b>      | <b>2018/19*</b>     | <b>2019/20*</b>     | <b>2020/21†</b>     | <b>2021/22‡</b>     |
| <b>Taxes on income</b>   | <b>640,546.17</b>   | <b>685,329.95</b>   | <b>706,936.33</b>   | <b>694,052.52</b>   | <b>834,471.79</b>   |
| Income tax from individuals (P.A.Y.E)  | 363,305.11          | 393,439.73          | 399,201.24          | 363,343.07          | 435,926.54          |
| Income tax from corporations (other income tax)  | 277,241.06          | 291,890.22          | 307,735.09          | 330,709.45          | 398,545.25          |
| <b>Value Added Tax (VAT)</b>   | <b>357,128.74</b>   | <b>414,143.41</b>   | <b>383,713.19</b>   | <b>410,758.40</b>   | <b>472,907.22</b>   |
| VAT on domestic goods and services   | 206,242.94          | 230,775.54          | 213,884.17          | 197,071.70          | 248,991.04          |
| VAT on imported goods and services   | 150,885.81          | 183,367.86          | 169,829.02          | 213,686.70          | 223,916.18          |
| <b>Taxes on other goods and services</b>   | <b>274,126.47</b>   | <b>291,941.55</b>   | <b>213,599.83</b>   | <b>236,989.75</b>   | <b>343,030.60</b>   |
| Taxes on financial and capital transactions  | 28,928.42           | 13,258.70           | 13,758.24           | 15,748.83           | 8,391.60            |
| Excise taxes   | 167,753.13          | 196,608.90          | 198,031.61          | 219,085.01          | 244,482.05          |
| Taxes on use of goods and on permission to use the goods or to perform services and activities | 1,580.25            | 2,222.19            | 1,809.97            | 2,155.91            | 2,273.72            |
| Taxes on goods and services collected as AIA   | 75,864.67           | 79,851.76           | 76,502.27           | 75,653.00           | 87,883.23           |
| <b>Taxes on international trade transactions</b>   | <b>138,285.55</b>   | <b>152,374.87</b>   | <b>151,274.15</b>   | <b>176,621.78</b>   | <b>181,477.23</b>   |
| Custom duties  | 93,685.38           | 106,874.93          | 98,022.24           | 108,375.17          | 118,954.11          |
| Other taxes on international trade and transactions  | 44,600.17           | 45,499.94           | 53,251.91           | 68,246.62           | 62,523.12           |
| <b>TOTAL TAX REVENUE</b>   | <b>1,410,086.94</b> | <b>1,543,789.78</b> | <b>1,455,523.50</b> | <b>1,518,422.45</b> | <b>1,831,886.84</b> |
| Social security contributions  | 510.96              | 475.37              | 314.80              | 336.36              | 473.48              |
| Property income  | 26,833.34           | 29,718.58           | 118,541.89          | 51,039.82           | 32,786.98           |
| Sale of goods and services   | 16,094.97           | 24,767.80           | 18,340.67           | 16,531.86           | 25,198.76           |
| Fines penalties and forfeitures  | 2,078.74            | 2,601.59            | 2,206.65            | 2,271.13            | 2,205.21            |
| Ministerial Appropriation in Aid   | 60,754.12           | 11,809.25           | 33,824.81           | 50,183.00           | 31,517.84           |
| Other receipts not elsewhere classified  | 5,916.61            | 91,931.14           | 167,224.51          | 144,993.35          | 114,608.50          |
| <b>TOTAL NON-TAX REVENUE</b>   | <b>112,188.74</b>   | <b>161,303.72</b>   | <b>340,453.34</b>   | <b>265,355.52</b>   | <b>206,790.76</b>   |
| <b>TOTAL ORDINARY REVENUE</b>  | <b>1,522,275.68</b> | <b>1,705,093.50</b> | <b>1,795,976.83</b> | <b>1,783,777.97</b> | <b>2,038,677.60</b> |

Source: The National Treasury

\* Provisional

† Revised

**5.8.** Details of import duty levied on selected categories of commodities from 2017 to 2021 are presented in Table 5.5. The total import duty collected on selected commodities increased by 70.2 per cent from KSh 84.5 billion in 2020 to KSh 143.8 billion

in 2021. The import duty collected from food, drinks and tobacco more than doubled from KSh 21.8 billion to KSh 45.9 billion while transport equipment and metal increased by 92.8 per cent and 76.9 per cent respectively, in the review period.

**Table 5.5: Import Duty Collections on Selected Categories of Commodities, 2017 – 2021**

| End-Use Category               | 2017             | 2018             | 2019              | 2020             | KSh Million<br>2021* |
|--------------------------------|------------------|------------------|-------------------|------------------|----------------------|
| Food, drinks and tobacco       | 24,204.83        | 23,944.30        | 25,190.24         | 21,751.92        | 45,857.20            |
| Basic materials                | 5,242.27         | 6,280.80         | 6,729.61          | 4,645.22         | 7,445.01             |
| Fuels                          | 1,380.31         | 2,539.23         | 1,707.49          | 1,698.59         | 2,267.51             |
| Chemicals                      | 4,050.77         | 4,412.57         | 4,933.82          | 4,229.26         | 6,381.69             |
| Textiles                       | 2,653.99         | 3,931.42         | 4,357.12          | 4,195.69         | 5,405.69             |
| Semi-manufactures <sup>1</sup> | 5,126.76         | 6,515.45         | 6,607.99          | 6,506.46         | 8,311.88             |
| Metals                         | 6,386.79         | 9,547.60         | 10,950.90         | 9,913.57         | 17,536.62            |
| Transport equipment            | 16,597.57        | 17,462.38        | 18,504.73         | 10,222.17        | 19,705.47            |
| Machinery                      | 8,736.77         | 10,304.67        | 10,916.16         | 9,760.01         | 13,414.30            |
| Miscellaneous commodities      | 9,852.98         | 12,854.18        | 13,987.41         | 11,568.90        | 17,508.01            |
| <b>TOTAL</b>                   | <b>84,233.04</b> | <b>97,792.60</b> | <b>103,885.48</b> | <b>84,491.79</b> | <b>143,833.37</b>    |

Source: Kenya Revenue Authority

\* Provisional

<sup>1</sup> Excludes non-metallic mineral manufactures

**5.9.** Table 5.6 presents the excise revenue collected from domestically manufactured commodities and services from 2017 to 2021. The total excise revenue collected from domestically manufactured commodities and services amounted to KSh 131.1

billion in 2021, an increase of 27.6 per cent from KSh 102.7 billion collected in 2020. Excise revenue increased across all the sub-categories except for airtime which decreased by 19.8 per cent from KSh 37.2 billion to KSh 29.8 billion.

**Table 5.6: Excise Revenue Levied on Commodities and Services<sup>1</sup>, 2017 – 2021**

|                                       | <i>KSh Million</i> |                  |                   |                   |                   |
|---------------------------------------|--------------------|------------------|-------------------|-------------------|-------------------|
|                                       | <b>2017</b>        | <b>2018</b>      | <b>2019</b>       | <b>2020</b>       | <b>2021*</b>      |
| Beer                                  | 24,842.54          | 27,627.32        | 27,772.48         | 19,112.87         | 28,579.32         |
| Wines and Spirits                     | 8,772.87           | 11,477.89        | 13,637.28         | 15,684.42         | 16,125.32         |
| Mineral Water, Soft Drinks and Juices | 3,464.11           | 4,156.94         | 3,743.25          | 5,216.29          | 5,421.42          |
| Cigarettes                            | 13,052.09          | 12,804.50        | 12,236.22         | 11,466.16         | 12,309.14         |
| Airtime                               | 16,129.29          | 26,285.35        | 28,609.96         | 37,210.80         | 29,827.68         |
| Financial Transactions                | 13,701.09          | 10,101.61        | 27,479.40         | 11,656.32         | 28,900.18         |
| Other Commodities <sup>2</sup>        | 2,881.04           | 829.79           | 3,379.01          | 2,368.45          | 9,921.49          |
| <b>TOTAL</b>                          | <b>82,843.03</b>   | <b>93,283.40</b> | <b>116,857.62</b> | <b>102,715.30</b> | <b>131,084.54</b> |

Source: Kenya Revenue Authority

\* Provisional

<sup>1</sup> Domestically manufactured commodities<sup>2</sup> Includes revenue from betting, cosmetics, internet and plastic shopping bags

**5.10.** Table 5.7 shows the National Government financing of non-financial assets from 2017/18 to 2021/22. The acquisitions of non-financial assets are expected to reach KSh 93.1 billion in 2021/22. External grants disbursements are estimated to in-

crease by 98.0 per cent to KSh 62.0 billion while external loans are expected to decrease by 16.1 per cent from KSh 323.3 billion to KSh 271.2 billion in the review period.

**Table 5.7: National Government Financing of Non-Financial Assets, 2017/18 - 2021/22**

|  | <i>KSh Million</i> |                    |                    |                    |                    |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
|  | <b>2017/18</b>     | <b>2018/19</b>     | <b>2019/20*</b>    | <b>2020/21†</b>    | <b>2021/22‡</b>    |
| <b>EXPENDITURE:</b>                                      |                    |                    |                    |                    |                    |
| Acquisition of Non Financial Assets (Net)                | 191,994.61         | 209,725.41         | 105,088.64         | 92,974.33          | 93,136.65          |
| <b>TOTAL</b>   | <b>191,994.61</b>  | <b>209,725.41</b>  | <b>105,088.64</b>  | <b>92,974.33</b>   | <b>93,136.65</b>   |
| <b>FINANCING:</b>  |                    |                    |                    |                    |                    |
|  | <b>735,127.08</b>  | <b>678,249.58</b>  | <b>759,429.09</b>  | <b>923,048.84</b>  | <b>816,360.21</b>  |
| External Grants  | 27,600.14          | 47,483.00          | 19,819.74          | 31,320.43          | 62,002.31          |
| <b>LONG TERM BORROWING:</b>                              | <b>533,128.22</b>  | <b>559,323.06</b>  | <b>811,477.05</b>  | <b>986,897.09</b>  | <b>819,177.12</b>  |
| External Borrowing                                       | 354,977.00         | 321,464.00         | 340,431.33         | 323,309.58         | 271,182.17         |
| Long-Term Domestic Borrowing (Net)                       | 178,151.22         | 237,859.06         | 471,045.71         | 663,587.50         | 547,994.95         |
| <b>SHORT TERM BORROWING:</b>                             | <b>174,398.72</b>  | <b>71,443.52</b>   | <b>-71,867.70</b>  | <b>-95,168.68</b>  | <b>-64,819.22</b>  |
| Treasury Bills (Net)                                     | 117,549.48         | 70,965.05          | -61,689.78         | -107,298.34        | -80,234.88         |
| Other Short-Term Borrowing (Net)                         | 56,849.24          | 478.47             | -10,177.92         | 12,129.66          | 15,415.66          |
| <b>CHANGE IN CASH BALANCES<sup>1</sup>: Increase=(-)</b> | <b>-543,132.47</b> | <b>-468,524.17</b> | <b>-654,340.45</b> | <b>-830,074.50</b> | <b>-716,928.03</b> |
| <b>TOTAL</b>   | <b>191,994.61</b>  | <b>209,725.41</b>  | <b>759,429.09</b>  | <b>923,048.84</b>  | <b>816,360.21</b>  |

Source: The National Treasury and Central Bank of Kenya

\* Provisional.

† Revised

‡ Balancing item

**5.11.** Table 5.8 presents National Government expenditure classified by functions of government from 2018/19 to 2021/22. Total expenditure is expected to grow by 2.5 per cent to KSh 3,373.8 billion with recurrent and development expenditures estimated at KSh 2,882.1 billion and KSh 491.7 billion, respectively in 2021/22. Outlays on health and education are estimated to increase by 16.5 per cent and 2.9 per cent

to KSh 110.2 billion and KSh 486.1 billion in 2021/22, respectively. Public debt transactions in 2021/22 are estimated at KSh 1,094.0 billion, accounting for 32.4 per cent of the total expenditure. Current transfers to other levels of government inclusive of conditional grants to County Governments are estimated at KSh 409.9 billion, translating to 12.1 per cent of the total expenditure during the review period.

**Table 5.8 National Government Expenditure Classification by Functions of Government, 2018/19-2021/22**

|   |            | 2018/19    | 2019/20    | Total      | Recur-rent Account | Deve-lopment Account | Total      | Recur-rent Account | Deve-lopment Account | Total        | Recur-rent Account | Deve-lopment Account | Total |
|---|------------|------------|------------|------------|--------------------|----------------------|------------|--------------------|----------------------|--------------|--------------------|----------------------|-------|
| <b>General public services</b>                              | 161,097.87 | 60,516.70  | 221,614.57 | 197,591.76 | 132,248.94         | 329,840.70           | 170,207.00 | 116,118.20         | 286,325.20           | 221,974.31   | 109,735.51         | 331,709.82           |       |
| <b>Public debt transactions</b>                             | 846,358.14 | 0.00       | 846,358.14 | 772,369.84 | 0.00               | 772,369.84           | 994,804.30 | 0.00               | 994,804.30           | 1,093,966.59 | 0.00               | 1,093,966.59         |       |
| <b>Transfers of general character betw. levels of govt.</b> | 372,481.38 | 0.00       | 372,481.38 | 325,278.06 | 0.00               | 325,278.06           | 398,992.75 | 0.00               | 398,992.75           | 409,880.89   | 0.00               | 409,880.89           |       |
| <b>Defense</b>  | 142,264.75 | 0.00       | 142,264.75 | 138,018.08 | 0.00               | 138,018.08           | 157,672.83 | 0.00               | 157,672.83           | 157,122.71   | 0.00               | 157,122.71           |       |
| <b>Public order and safety</b>                              | 150,161.52 | 16,410.78  | 166,572.31 | 161,726.79 | 9,304.08           | 171,030.87           | 159,229.17 | 4,928.03           | 164,157.19           | 157,304.40   | 9,069.78           | 166,374.17           |       |
| <b>Economic affairs</b>                                     | 104,900.19 | 339,139.19 | 444,039.38 | 129,006.56 | 305,481.93         | 434,488.50           | 140,959.24 | 301,586.33         | 442,545.57           | 130,573.95   | 228,885.46         | 359,459.41           |       |
| General economic, commercial & labour affairs               | 10,002.44  | 8,082.84   | 18,085.27  | 22,572.42  | 22,308.61          | 44,881.03            | 17,848.84  | 10,719.79          | 28,568.63            | 21,061.33    | 10,654.48          | 31,715.81            |       |
| Agriculture, forestry, fishing, and hunting                 | 28,341.19  | 25,850.55  | 54,191.74  | 20,267.81  | 35,247.61          | 55,515.42            | 32,976.98  | 39,777.92          | 72,754.90            | 27,791.51    | 36,653.59          | 64,445.10            |       |
| Fuel and energy   | 2,359.56   | 50,750.55  | 53,110.11  | 2,481.06   | 49,858.86          | 52,339.92            | 3,565.46   | 50,928.53          | 54,493.99            | 3,599.61     | 34,955.70          | 38,555.31            |       |
| Mining, manufacturing and construction                      | 1,000.16   | 324.13     | 1,324.29   | 2,133.53   | 316.85             | 2,450.38             | 549.75     | 80.56              | 630.31               | 579.20       | 131.37             | 710.57               |       |
| Transport   | 53,172.48  | 231,741.55 | 284,914.03 | 69,233.15  | 182,062.26         | 251,295.41           | 74,857.86  | 179,587.66         | 254,445.52           | 66,398.26    | 124,551.94         | 190,950.20           |       |
| Communication   | 6,229.87   | 21,453.44  | 27,683.31  | 6,500.87   | 15,078.67          | 21,579.54            | 8,662.58   | 17,079.06          | 25,731.64            | 5,936.72     | 21,700.88          | 27,637.60            |       |
| Other industries  | 3,794.50   | 936.13     | 4,730.63   | 5,817.71   | 609.08             | 6,426.79             | 2,507.77   | 3,412.80           | 5,920.58             | 5,207.32     | 237.50             | 5,444.82             |       |
| <b>Environmental protection</b>                             | 4,947.38   | 2,389.38   | 7,336.75   | 9,787.50   | 9,867.70           | 19,655.20            | 11,302.85  | 1,282.41           | 12,585.26            | 11,820.20    | 10,382.91          | 22,203.10            |       |
| <b>Housing and community amenities</b>                      | 13,441.84  | 70,813.96  | 84,255.81  | 13,084.44  | 64,990.80          | 78,075.24            | 13,464.84  | 81,635.17          | 95,100.00            | 13,917.45    | 37,143.75          | 51,061.20            |       |
| <b>Health</b>   | 42,472.11  | 34,211.92  | 76,684.03  | 61,387.61  | 42,771.15          | 104,158.75           | 48,883.83  | 45,637.40          | 94,521.24            | 41,672.95    | 68,479.61          | 110,152.56           |       |
| Outpatient services   | 2,650.04   | 9,364.00   | 12,014.04  | 2,633.71   | 6,681.24           | 9,314.95             | 3,392.22   | 7,108.55           | 10,500.76            | 2,749.49     | 9,071.10           | 11,820.59            |       |
| Hospital services   | 22,952.41  | 487.23     | 23,439.64  | 27,496.26  | 2,349.66           | 29,845.92            | 26,898.47  | 1,562.54           | 28,461.00            | 24,328.18    | 2,577.14           | 26,905.32            |       |

**Table 5.8 National Government Expenditure Classification by Functions of Government, 2018/19-2021/22 (Continued)**

|  | 2018/19             |                       |                     | 2019/20*            |                       |                     | 2020/21†            |                       |                     | 2021/22‡            |                       |                     |
|--|---------------------|-----------------------|---------------------|---------------------|-----------------------|---------------------|---------------------|-----------------------|---------------------|---------------------|-----------------------|---------------------|
|  | Recur- rent Account | Deve- lopment Account | Total               | Recur- rent Account | Deve- lopment Account | Total               | Recur- rent Account | Deve- lopment Account | Total               | Recur- rent Account | Deve- lopment Account | Total               |
| Public health services                         | 9,897.75            | 23,993.11             | 33,890.86           | 12,740.01           | 32,233.24             | 44,973.25           | 3,969.84            | 31,594.96             | 35,564.81           | 1,720.22            | 46,195.66             | 47,915.88           |
| Health expenditure not elsewhere classified    | 6,971.91            | 367.58                | 7,339.49            | 18,517.62           | 1,507.01              | 20,024.63           | 14,623.30           | 5,371.36              | 19,994.66           | 12,875.05           | 10,635.71             | 23,510.77           |
| Recreation, culture and religion               | 6,847.85            | 1,458.13              | 8,305.98            | 4,464.24            | 10,127.99             | 14,592.23           | 3,653.16            | 6,904.04              | 10,557.21           | 4,270.04            | 7,629.79              | 11,899.83           |
| Education                                      | 428,200.60          | 26,879.24             | 455,079.84          | 449,366.50          | 16,320.67             | 465,687.17          | 456,558.70          | 15,853.47             | 472,412.18          | 475,950.70          | 10,112.23             | 486,062.93          |
| Administration                                 | 2,148.72            | 0.00                  | 2,148.72            | 2,667.59            | 0.00                  | 2,667.59            | 3,311.04            | 0.00                  | 3,311.04            | 3,743.66            | 9.00                  | 3,752.66            |
| Pre-primary and primary education              | 165,667.43          | 3,871.03              | 169,538.47          | 179,008.07          | 1,574.52              | 180,582.59          | 185,343.88          | 2,590.54              | 187,934.42          | 189,024.08          | 976.10                | 190,000.18          |
| Secondary education                            | 135,263.34          | 2,724.53              | 137,987.88          | 138,782.81          | 2,678.87              | 141,461.68          | 155,142.79          | 3,696.85              | 158,839.64          | 159,820.79          | 4,652.70              | 164,473.49          |
| Tertiary education                             | 108,271.52          | 19,938.54             | 128,210.06          | 113,113.50          | 11,885.84             | 124,999.34          | 97,290.00           | 9,370.51              | 106,660.52          | 107,018.97          | 4,081.38              | 111,100.35          |
| Education expenditure not elsewhere classified | 16,849.59           | 345.13                | 17,194.71           | 15,794.52           | 181.44                | 15,975.97           | 15,470.99           | 195.57                | 15,666.56           | 16,343.20           | 393.05                | 16,736.25           |
| Social protection                              | 101,879.19          | 17,925.90             | 119,805.09          | 129,256.44          | 17,156.27             | 146,412.71          | 151,261.68          | 10,893.00             | 162,154.68          | 163,690.94          | 10,238.85             | 173,929.79          |
| <b>TOTAL OUTLAYS<sup>§</sup></b>               | <b>2,375,052.84</b> | <b>569,745.19</b>     | <b>2,944,793.04</b> | <b>2,391,337.81</b> | <b>608,269.54</b>     | <b>2,999,607.35</b> | <b>2,706,990.35</b> | <b>584,838.05</b>     | <b>3,291,828.39</b> | <b>2,882,145.13</b> | <b>491,677.88</b>     | <b>3,373,823.01</b> |

Source: The National Treasury

\*Provisional

†Revised

‡Total in this Table vary with that in Table 5.9 by disposal of non financial and disposal of financial assets

**5.12.** Table 5.9 presents the National Government expenditure by economic classification from 2017/18 to 2021/22. Total expenditure less disposal of non-financial assets is expected to increase by 2.1 per cent to KSh 3,328.9 billion in 2021/22. The total consumption expenditure on goods and services which constitutes the compensation of employee's and use of goods and services is expected to grow from KSh 824.9 billion in 2020/21 to KSh 825.1 billion in 2021/22. The total expense category is expected to increase by 1.4 per cent from KSh 2,634.6 billion to KSh 2,672.0 billion in 2021/22, accounting for 80.3

per cent of the total expenditure. Total current grants are also expected to decrease from KSh 749.8 billion in 2020/21 to KSh 747.8 billion in 2021/22. Over the reporting period, expenditure on interest payments is estimated to increase by 10.7 per cent from KSh 495.1 billion to KSh 548.0 billion. The net expenditure on the acquisition of non-financial assets is estimated to increase marginally to KSh 93.1 billion in 2021/22. During the same period, public corporations and extra-budgetary units are expected to receive KSh 358.0 billion as capital transfers.

**Table 5.9: Economic Analysis of National Government Expenditure, 2017/18-2021/22**

|   |                     | 2017/18             | 2018/19             | 2019/2020*          | 2020/2021*          | KSh Million<br>2021/2022* |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------------|
| <b>Expense</b>  |                     |                     |                     |                     |                     |                           |
| <b>Consumption expenditure on goods and services:</b> |                     |                     |                     |                     |                     |                           |
| Compensation of employees                             | 482,905.41          | 527,191.25          | 536,896.12          | 589,958.59          | 578,853.43          |                           |
| Use of Goods and Services                             | 233,159.20          | 215,089.28          | 208,868.74          | 234,955.47          | 246,220.34          |                           |
| <b>Total Consumption Expenditure</b>                  | <b>716,064.61</b>   | <b>742,280.53</b>   | <b>745,764.86</b>   | <b>824,914.06</b>   | <b>825,073.77</b>   |                           |
| Subsidies   | 55,477.04           | 60,278.98           | 61,372.62           | 62,623.36           | 48,358.41           |                           |
| Interest:   |                     |                     |                     |                     |                     |                           |
| Domestic  | 239,469.90          | 272,351.03          | 315,362.00          | 388,829.56          | 421,896.89          |                           |
| External  | 84,420.24           | 103,372.13          | 121,840.00          | 106,312.32          | 126,059.38          |                           |
| <b>Total Interest</b>                                 | <b>323,890.14</b>   | <b>375,723.16</b>   | <b>437,202.00</b>   | <b>495,141.88</b>   | <b>547,956.28</b>   |                           |
| Current Grants:                                       |                     |                     |                     |                     |                     |                           |
| International organisations                           | 3,517.71            | 3,858.25            | 4,175.27            | 5,453.75            | 4,480.44            |                           |
| General Government units                              | 235,485.20          | 282,388.28          | 358,151.96          | 315,744.69          | 310,354.64          |                           |
| County Governments                                    | 345,681.02          | 372,481.38          | 325,278.06          | 398,992.75          | 409,880.89          |                           |
| Other Grants  | 11,625.02           | 15,479.98           | 26,758.62           | 29,595.86           | 23,078.36           |                           |
| <b>Total Current Grants</b>                           | <b>596,308.95</b>   | <b>674,207.89</b>   | <b>714,363.91</b>   | <b>749,787.05</b>   | <b>747,794.32</b>   |                           |
| <b>Social benefits</b>                                | <b>71,983.70</b>    | <b>75,889.99</b>    | <b>94,783.63</b>    | <b>114,071.59</b>   | <b>141,642.75</b>   |                           |
| Other expense   | 2,978.81            | 1,001.80            | 2,436.47            | 2,945.29            | 3,240.80            |                           |
| <b>Total Current Expenditure</b>                      | <b>1,766,703.26</b> | <b>1,929,382.36</b> | <b>2,055,923.49</b> | <b>2,249,483.23</b> | <b>2,314,066.32</b> |                           |
| <b>Capital Grants (Transfers)</b>                     | <b>251,952.65</b>   | <b>299,630.76</b>   | <b>434,743.68</b>   | <b>385,077.84</b>   | <b>357,976.60</b>   |                           |
| <b>1 Total Expense</b>                                | <b>2,018,655.91</b> | <b>2,229,013.12</b> | <b>2,490,667.17</b> | <b>2,634,561.07</b> | <b>2,672,042.92</b> |                           |
| <b>2 Acquisition of Non Financial Assets(net)</b>     | <b>191,994.61</b>   | <b>185,064.82</b>   | <b>105,088.64</b>   | <b>92,974.33</b>    | <b>93,136.65</b>    |                           |
| Building and structures                               | 153,621.59          | 195,387.73          | 131,644.22          | 102,019.28          | 21,180.00           |                           |
| Machinery and equipment                               | 26,368.68           | 24,320.78           | 13,842.15           | 10,649.00           | 110,261.31          |                           |
| Inventories   | 10,879.50           | 8,352.30            | 557.47              | 5,918.84            | 319.14              |                           |
| Non-produced assets & Land                            | 3,903.08            | 5,232.20            | 5,923.38            | 6,173.02            | 6,325.94            |                           |
| Less Disposal of Non financial assets                 | (2,778.24)          | (48,228.19)         | (46,878.59)         | (31,785.81)         | (44,949.74)         |                           |
| <b>3 Equity Participation and on-lending</b>          | <b>18,301.34</b>    | <b>16,942.82</b>    | <b>21,805.12</b>    | <b>32,844.77</b>    | <b>17,683.39</b>    |                           |
| <b>4 Public Debt Redemption</b>                       | <b>344,334.90</b>   | <b>470,634.98</b>   | <b>335,167.84</b>   | <b>499,662.41</b>   | <b>546,010.32</b>   |                           |
| <b>Total Outlays (1+2+3+4)</b>                        | <b>2,573,286.76</b> | <b>2,896,569.85</b> | <b>2,952,728.76</b> | <b>3,260,042.59</b> | <b>3,328,873.27</b> |                           |

Source: The National Treasury

\* Provisional.

+ Revised

**5.13.** Table 5.10 presents details of the National Government outstanding debt by source as at 30<sup>th</sup> June for the period 2017 to 2021. The total stock of public debt rose by 14.9 per cent from KSh 6,254.4 billion as at end of June 2020 to KSh 7,188.1 billion as at the end of June 2021. Total external debt grew by 14.7 per cent to KSh 3,842.3 billion accounting for 53.5 per cent of the total debt. The stock of debt from France and Japan grew by 15.2 per cent and 14.6 per cent to KSh 91.9 billion and 87.2 billion, respectively while China's debt grew by 5.8 per cent accounting for 71.5 per cent of the total debt of the bilateral agencies. Stock of debt attributed to International Development Association/International Fund for Agricultural Development (IDA/IFAD) rose

by 23.0 per cent to KSh 1,094.3 billion as at the end of June, 2021. In addition, stock of debt from African Development Bank (AfDB) grew by 22.2 per cent to KSh 322.3 billion over the same period.

**5.14.** Domestic debt rose by 15.2 per cent to KSh 3,345.8 billion, as at the end of June 2021. Outstanding debt due to commercial banks declined by 8.7 per cent to stand at KSh 340.0 billion as at the end of June, 2021. The stock of Treasury Bills and Treasury Bonds accounted for 10.6 per cent and 39.6 per cent of the overall debt position, respectively. The Treasury Bonds increased by 28.4 per cent to KSh 2,849.9 billion, while the Treasury Bills decreased by 13.8 per cent to KSh 765.4 billion during the review period.

**Table 5.10: National Government Outstanding Debt<sup>+</sup> by Source, 2017-2021**

| Outstanding as at 30th June                          | 2017                | 2018                | 2019                | 2020                | KSh Million<br>2021* |
|--|---------------------|---------------------|---------------------|---------------------|----------------------|
| <b>EXTERNAL DEBT:</b>                                |                     |                     |                     |                     |                      |
| <b>Lending Countries:</b>                            |                     |                     |                     |                     |                      |
| Germany  | 23,492.55           | 27,149.15           | 30,745.63           | 30,487.00           | 32,033.68            |
| Japan  | 46,903.42           | 48,342.19           | 63,681.49           | 76,115.00           | 87,244.22            |
| France   | 63,262.08           | 60,803.04           | 72,567.94           | 79,719.00           | 91,869.79            |
| USA  | 3,497.23            | 2,672.67            | 2,089.28            | 1,580.00            | 1,417.57             |
| Netherlands  | 1,752.72            | 983.02              | 343.19              | 55.00               | 0.00                 |
| Denmark  | 1,355.76            | 1,049.23            | 874.88              | 604.00              | 473.19               |
| Finland  | 1,711.78            | 1,642.00            | 1,796.41            | 1,427.00            | 1,220.08             |
| China  | 489,452.30          | 560,534.48          | 661,058.54          | 719,359.00          | 761,089.12           |
| Belgium  | 9,938.02            | 10,198.56           | 11,590.96           | 11,975.00           | 12,684.02            |
| Other  | 28,467.83           | 45,642.37           | 73,232.13           | 72,374.00           | 76,240.48            |
| <b>Total(bilateral)</b>                              | <b>669,833.69</b>   | <b>759,016.72</b>   | <b>917,980.45</b>   | <b>993,695.00</b>   | <b>1,064,272.15</b>  |
| <b>International Organisations:</b>                  |                     |                     |                     |                     |                      |
| IDA/IFAD   | 535,847.73          | 520,307.49          | 604,385.58          | 889,916.00          | 1,094,316.26         |
| EEC/EIB  | 20,399.50           | 19,544.23           | 17,240.62           | 16,796.00           | 23,228.55            |
| IMF  | 77,637.37           | 71,588.41           | 49,208.15           | 110,605.00          | 178,215.20           |
| ADF/AfDB   | 197,490.09          | 204,706.87          | 229,638.40          | 263,749.00          | 322,293.12           |
| Other multilateral                                   | 8,347.06            | 9,151.67            | 9,318.64            | 35,769.00           | 41,358.18            |
| <b>Total(multilateral)</b>                           | <b>839,721.75</b>   | <b>825,298.66</b>   | <b>909,791.39</b>   | <b>1,316,835.00</b> | <b>1,659,411.31</b>  |
| Commercial Banks                                     | 348,901.68          | 350,664.64          | 395,010.25          | 372,615.43          | 340,031.27           |
| International Sovereign Bond                         | 285,207.18          | 479,987.50          | 624,019.63          | 649,786.64          | 766,445.00           |
| Suppliers' Credit                                    | 15,303.14           | 16,725.20           | 16,931.81           | 17,630.96           | 12,162.09            |
| <b>TOTAL EXTERNAL</b>                                | <b>2,158,967.44</b> | <b>2,431,692.72</b> | <b>2,863,733.53</b> | <b>3,350,563.04</b> | <b>3,842,321.82</b>  |
| <b>INTERNAL DEBT:</b>                                |                     |                     |                     |                     |                      |
| Treasury Bills <sup>1</sup>                          | 744,155.00          | 878,623.00          | 954,250.00          | 887,696.50          | 765,375.00           |
| Treasury Bonds                                       | 1,332,001.27        | 1,521,230.47        | 1,749,709.95        | 2,220,339.49        | 2,849,936.00         |
| Non Interest bearing debts <sup>2</sup>              | 24,448.76           | 23,338.76           | 22,228.76           | 21,118.76           | 20,008.76            |
| Others(includes stocks)                              | 11,131.70           | 64,447.02           | 60,854.77           | 49,266.53           | 61,774.05            |
| Less government deposits <sup>3</sup> and on-lending | -255,433.63         | -330,626.49         | -332,759.34         | -274,623.92         | -351,324.72          |
| <b>TOTAL INTERNAL (net)</b>                          | <b>1,856,303.10</b> | <b>2,157,012.76</b> | <b>2,454,284.13</b> | <b>2,903,797.36</b> | <b>3,345,769.08</b>  |
| <b>TOTAL DEBT</b>                                    | <b>4,015,270.53</b> | <b>4,588,705.49</b> | <b>5,318,017.66</b> | <b>6,254,360.40</b> | <b>7,188,090.90</b>  |

Source: The National Treasury and Central Bank of Kenya

<sup>\*</sup> Provisional<sup>†</sup> Revised<sup>‡</sup> Excludes Repo Bills<sup>§</sup> Pre-1997 Government Overdraft debt(Repo T-bills)<sup>¶</sup> Government deposits in Central Bank and Commercial Banks

**5.15.** National Government debt servicing charges and receipts from interest and loan repayments from 2017/18 to 2021/22 are shown in Table 5.11. The net servicing charges on internal and external debt is expected to increase by 11.6 per cent to KSh 1,090.5 billion in 2021/22. In the same period, the receipts on

interest and loan repayments are expected to decline by 58.9 per cent to KSh 3.4 billion. The net charges on external debt servicing and net domestic debt servicing charges are expected to increase by 28.5 per cent and 2.6 per cent, respectively in 2021/22.

**Table 5.11: National Government Debt Servicing, 2017/18-2021/22**

| Year     | Debt Servicing Charges |            |              | Interest and<br>Loan<br>Repayment<br>Receipts | Net Servicing Charges |            |              | KSh Million |
|----------|------------------------|------------|--------------|---|-----------------------|------------|--------------|-------------|
|          | External               | Internal   | Total        |   | Internal              | External   | Internal     | Total       |
| 2017/18  | 234,702.61             | 433,522.43 | 668,225.04   | 4,507.32                                      | 234,702.61            | 429,015.11 | 663,717.72   |             |
| 2018/19  | 369,613.15             | 481,593.18 | 851,206.33   | 5,055.62                                      | 369,613.15            | 476,537.56 | 846,150.71   |             |
| 2019/20  | 223,440.00             | 529,143.54 | 752,583.54   | 4,395.80                                      | 223,440.00            | 524,747.73 | 748,187.73   |             |
| 2020/21  | 234,590.32             | 750,784.59 | 985,374.91   | 8,354.00                                      | 234,590.32            | 742,430.59 | 977,020.91   |             |
| 2021/22* | 328,125.46             | 765,841.14 | 1,093,966.59 | 3,433.87                                      | 328,125.46            | 762,407.27 | 1,090,532.72 |             |

Source: The National Treasury

\* Provisional

**5.16.** Table 5.12 shows the National Government external debt servicing charges and earnings from export of goods and services from 2017/18 to 2021/22. The percentage of debt servicing charges to export earnings is expected to increase to 25.7 per cent in 2021/22 compared to 22.7 per cent in 2020/21.

**Table 5.12: National Government Debt Service Charges and Earnings from Export of Goods and Services, 2017/18-2021/22**

| Year     | Debt Service Charges on<br>External Debt <sup>1</sup> | Exports of Goods and<br>Services (Calender Year) | External debt service Charges as a<br>Percentage of Exports of Goods and<br>Services | Per cent |
|----------|---|--|--|----------|
|          |   |  |  | Per cent |
| 2017/18  | 234,702.61  | 1,080,501.14                                     |  | 21.72    |
| 2018/19  | 369,613.15  | 1,171,456.91                                     |  | 31.55    |
| 2019/20  | 223,440.00  | 1,169,967.15                                     |  | 19.10    |
| 2020/21  | 234,590.32  | 1,032,975.57                                     |  | 22.71    |
| 2021/22* | 328,125.46  | 1,278,675.10                                     |  | 25.66    |

\* Provisional.

<sup>1</sup> Includes debt redemption and Interest Payment.

## County Governments

**5.18.** Table 5.13 presents County Governments revenue by source for 2020/21 and 2021/22. The total county revenues are expected to increase by 17.3 per cent from KSh 397.9 billion in 2020/21 to KSh 466.6 billion in 2021/22. Counties expect to receive KSh 370.0 billion as equitable share, an increase of 16.9 per cent from KSh 316.5 billion in 2020/21. During the review period, counties expect to receive KSh 39.9 billion from conditional grants and collect KSh 56.7 billion from own source revenue

**Table 5.13: County Government Revenues, 2020/21-2021/22\***

| County          | Equitable Share |           | Conditional Grant <sup>1</sup> |          | Annual Own Source Revenue |          | Total Revenue |           | <i>KSh Million</i> |
|-----------------|-----------------|-----------|--------------------------------|----------|---------------------------|----------|---------------|-----------|--------------------|
|                 | 2020/21         | 2021/22*  | 2020/21 <sup>2</sup>           | 2021/22* | 2020/21                   | 2021/22* | 2020/21       | 2021/22*  |                    |
| Baringo         | 5,095.65        | 6,369.39  | 752.87                         | 681.62   | 205.20                    | 258.55   | 6,053.72      | 7,309.56  |                    |
| Bomet           | 5,507.10        | 6,691.10  | 832.35                         | 806.48   | 183.01                    | 300.00   | 6,522.46      | 7,797.58  |                    |
| Bungoma         | 8,893.65        | 10,659.44 | 876.59                         | 696.07   | 395.12                    | 500.00   | 10,165.36     | 11,855.51 |                    |
| Busia           | 6,013.50        | 7,172.16  | 845.88                         | 600.43   | 322.56                    | 499.80   | 7,181.93      | 8,272.39  |                    |
| Elgeyo Marakwet | 3,861.30        | 4,606.53  | 735.21                         | 855.35   | 69.08                     | 166.10   | 4,665.58      | 5,627.98  |                    |
| Embu            | 4,304.40        | 5,125.24  | 998.06                         | 607.12   | 375.33                    | 900.00   | 5,677.78      | 6,632.36  |                    |
| Garissa         | 7,026.30        | 7,927.21  | 1,651.83                       | 1,241.03 | 103.53                    | 150.00   | 8,781.65      | 9,318.24  |                    |
| Homa Bay        | 6,741.45        | 7,805.35  | 704.95                         | 607.76   | 120.41                    | 143.81   | 7,566.81      | 8,556.93  |                    |
| Isiolo          | 4,241.10        | 4,710.39  | 942.48                         | 813.49   | 57.18                     | 113.69   | 5,240.76      | 5,637.57  |                    |
| Kajiado         | 6,424.95        | 7,954.77  | 927.74                         | 729.50   | 862.29                    | 1,605.36 | 8,214.97      | 10,289.63 |                    |
| Kakamega        | 10,412.85       | 12,389.41 | 1,499.98                       | 844.39   | 1,118.24                  | 2,113.00 | 13,031.06     | 15,346.80 |                    |
| Kericho         | 5,380.50        | 6,430.66  | 780.03                         | 722.35   | 595.98                    | 494.05   | 6,756.51      | 7,647.07  |                    |
| Kiambu          | 9,431.70        | 11,717.53 | 1,418.16                       | 742.54   | 2,425.25                  | 3,883.30 | 13,275.10     | 16,343.37 |                    |
| Kilifi          | 10,444.50       | 11,641.59 | 1,807.24                       | 2,307.31 | 833.85                    | 925.00   | 13,085.59     | 14,873.90 |                    |
| Kirinyaga       | 4,241.10        | 5,196.18  | 592.59                         | 726.94   | 346.52                    | 485.00   | 5,180.21      | 6,408.11  |                    |
| Kisii           | 7,785.90        | 8,894.27  | 1,244.00                       | 728.94   | 403.00                    | 700.00   | 9,432.90      | 10,323.22 |                    |
| Kisumu          | 6,836.40        | 8,026.14  | 1,197.23                       | 922.93   | 822.30                    | 1,984.00 | 8,855.93      | 10,933.07 |                    |
| Kitui           | 8,830.35        | 10,393.97 | 833.88                         | 658.52   | 326.45                    | 850.00   | 9,990.68      | 11,902.49 |                    |
| Kwale           | 7,785.90        | 8,265.59  | 1,164.15                       | 1,237.99 | 250.09                    | 315.00   | 9,200.14      | 9,818.58  |                    |
| Laikipia        | 4,177.80        | 5,136.27  | 715.83                         | 748.11   | 840.40                    | 1,006.00 | 5,734.03      | 6,890.37  |                    |
| Lamu            | 2,595.30        | 3,105.65  | 770.20                         | 579.12   | 108.43                    | 120.00   | 3,473.93      | 3,804.77  |                    |
| Machakos        | 7,754.25        | 9,162.30  | 1,248.05                       | 717.13   | 1,296.36                  | 1,682.89 | 10,298.67     | 11,562.33 |                    |
| Makueni         | 7,406.10        | 8,132.78  | 825.71                         | 753.51   | 527.53                    | 475.00   | 8,759.33      | 9,361.30  |                    |
| Mandera         | 10,222.95       | 11,190.38 | 1,158.45                       | 760.72   | 143.31                    | 200.04   | 11,524.71     | 12,151.14 |                    |
| Marsabit        | 6,773.10        | 7,277.00  | 970.97                         | 906.61   | 110.37                    | 170.00   | 7,854.44      | 8,353.62  |                    |
| Meru            | 8,039.10        | 9,493.86  | 1,157.90                       | 931.64   | 435.93                    | 575.00   | 9,632.93      | 11,000.50 |                    |
| Migori          | 6,773.10        | 8,005.02  | 727.20                         | 544.39   | 288.54                    | 280.00   | 7,788.84      | 8,829.41  |                    |
| Mombasa         | 7,057.95        | 7,567.35  | 2,076.40                       | 1,467.20 | 3,314.53                  | 4,966.33 | 12,448.88     | 14,000.88 |                    |

**Table 5.13: County Government Revenues, 2020/21-2021/22\* (Continued)**

| County                   | Equitable Share   |                   | Conditional Grant <sup>1</sup> |                  | Annual Own Source Revenue |                  | Total Revenue     |                   |
|--------------------------|-------------------|-------------------|--------------------------------|------------------|---------------------------|------------------|-------------------|-------------------|
|                          | 2020/21           | 2021/22           | 2020/21                        | 2021/22          | 2020/21                   | 2021/22*         | 2020/21           | 2021/22           |
| Murang'a                 | 6,298.35          | 7,180.16          | 865.83                         | 608.23           | 627.16                    | 1,500.00         | 7,791.35          | 9,288.38          |
| Nairobi City County      | 15,919.95         | 19,249.68         | 869.61                         | 1,020.09         | 9,958.04                  | 19,360.74        | 26,747.60         | 39,630.51         |
| Nakuru                   | 10,476.15         | 13,026.12         | 1,228.94                       | 972.58           | 1,628.82                  | 1,712.13         | 13,333.91         | 15,710.83         |
| Nandi                    | 5,348.85          | 6,990.87          | 772.17                         | 678.10           | 261.04                    | 387.11           | 6,382.06          | 8,056.07          |
| Narok                    | 8,039.10          | 8,844.79          | 785.35                         | 799.26           | 618.99                    | 2,374.55         | 9,443.44          | 12,018.60         |
| Nyamira                  | 4,810.80          | 5,135.34          | 900.98                         | 716.67           | 162.86                    | 400.00           | 5,874.65          | 6,252.01          |
| Nyandarua                | 4,874.10          | 5,670.44          | 856.79                         | 912.19           | 408.72                    | 590.00           | 6,139.61          | 7,172.63          |
| Nyeri                    | 5,412.15          | 6,228.73          | 1,167.74                       | 833.56           | 886.89                    | 1,000.00         | 7,466.78          | 8,062.29          |
| Samburu                  | 4,620.90          | 5,371.35          | 602.39                         | 624.24           | 70.38                     | 100.00           | 5,293.67          | 6,095.58          |
| Siaya                    | 5,791.95          | 6,966.51          | 855.19                         | 693.45           | 332.88                    | 445.45           | 6,980.02          | 8,105.40          |
| Taita/Taveta             | 4,241.10          | 4,842.17          | 1,120.24                       | 1,532.98         | 302.01                    | 376.00           | 5,663.35          | 6,751.15          |
| Tana River               | 5,855.25          | 6,528.41          | 919.77                         | 696.86           | 83.08                     | 79.86            | 6,858.10          | 7,305.13          |
| Tharaka -Nithi           | 3,924.60          | 4,214.20          | 855.91                         | 829.59           | 254.75                    | 350.00           | 5,035.26          | 5,393.79          |
| Trans Nzoia              | 5,760.30          | 7,186.16          | 733.14                         | 724.98           | 340.45                    | 529.50           | 6,833.89          | 8,440.64          |
| Turkana                  | 10,539.45         | 12,609.31         | 1,295.35                       | 939.55           | 209.83                    | 180.00           | 12,044.63         | 13,728.85         |
| Uasin Gishu              | 6,330.00          | 8,068.86          | 877.39                         | 762.15           | 1,105.68                  | 1,000.00         | 8,313.07          | 9,831.01          |
| Vihiga                   | 4,652.55          | 5,067.36          | 737.84                         | 570.61           | 169.11                    | 232.70           | 5,559.50          | 5,870.67          |
| Wajir                    | 8,545.50          | 9,474.73          | 1,288.48                       | 1,313.36         | 73.96                     | 100.00           | 9,907.93          | 10,888.09         |
| West Pokot               | 5,000.70          | 6,297.28          | 813.58                         | 713.25           | 68.87                     | 170.00           | 5,883.15          | 7,180.54          |
| <b>Total<sup>3</sup></b> | <b>316,500.00</b> | <b>370,000.00</b> | <b>47,002.61</b>               | <b>39,880.89</b> | <b>34,444.28</b>          | <b>56,749.96</b> | <b>397,946.90</b> | <b>466,630.85</b> |

Source: Office of the Controller of Budget

\* Provisional

<sup>1</sup> Conditional grants are monetary transfers from one level of Government to another, either through competitive project grants or through more general block grants, which place conditions on the use of the transferred funds by the recipient Government.

<sup>2</sup> this excludes an allocation of KSh 6.4 billion for World Bank: Kenya Urban Support Project

<sup>3</sup> Excludes cash balances of KSh. 36.30 billion for the FY 2019/20

**5.19.** County Governments' expenditure by economic classification for the period 2017/18 to 2021/22 is shown in Table 5.14. The total expenditure is expected to grow from KSh 425.0 billion in 2020/21 to KSh 514.3 billion in 2021/22, a growth of 21.0 per cent. Expenditure on compensation of employees is estimated to increase by 9.8 per cent from KSh 169.7 billion to KSh 186.4 billion during the same period, accounting for 36.2 per cent of the total expenditure.

Over the same period, outlay on use of goods and services is expected to increase by 24.4 per cent to KSh 100.5 billion from KSh 80.8 billion. Expenditure on acquisition of non-financial assets is estimated at KSh 120.8 billion, a 38.2 per cent increase in 2020/21, with expenditure on building and structures category estimated to rise by 36.9 per cent to KSh 100.3 billion in 2021/22.

**Table 5.14: County Governments Expenditure by Economic classification, 2017/18 - 2021/22**

|  | <b>2017/18</b>    | <b>2018/19</b>    | <b>2019/20*</b>   | <b>2020/21*</b>   | <b>2021/22*</b>   |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Compensation of Employees</b>                             | <b>150,526.27</b> | <b>155,833.81</b> | <b>167,311.37</b> | <b>169,710.21</b> | <b>186,421.19</b> |
| Salaries   | 112,115.30        | 114,796.79        | 122,096.61        | 126,533.99        | 138,097.51        |
| Allowances   | 35,088.75         | 37,723.26         | 40,631.41         | 38,471.86         | 42,449.76         |
| Social contributions   | 3,322.22          | 3,313.76          | 4,583.36          | 4,704.35          | 5,873.93          |
| <b>Use of goods and services</b>                             | <b>74,033.21</b>  | <b>88,944.57</b>  | <b>85,904.58</b>  | <b>80,775.48</b>  | <b>100,511.98</b> |
| Utilities, Supplies and Services                             | 2,128.84          | 3,050.88          | 2,415.19          | 2,689.07          | 2,728.35          |
| Printing , Advertising and Information Supplies and Services | 2,269.85          | 2,825.15          | 2,680.27          | 2,463.58          | 3,671.77          |
| Rentals  | 1,426.07          | 2,295.70          | 1,799.54          | 2,042.64          | 2,583.97          |
| Communication, Supplies and Services                         | 777.67            | 831.77            | 777.09            | 890.14            | 1,409.25          |
| Transportation costs   | 13,474.53         | 14,063.19         | 15,861.19         | 14,060.35         | 17,419.13         |
| Training Expenses  | 4,307.96          | 7,261.60          | 3,671.13          | 3,194.56          | 4,705.78          |
| Hospitality Supplies and Services                            | 5,210.77          | 6,300.42          | 6,232.56          | 5,866.56          | 6,427.08          |
| Insurance  | 6,889.76          | 6,390.80          | 7,850.34          | 8,946.08          | 11,235.12         |
| Specialised Materials  | 11,797.26         | 14,096.59         | 14,688.70         | 12,827.21         | 17,640.77         |
| Office and General Supplies and Services and materials       | 1,756.93          | 2,202.19          | 2,202.23          | 2,338.15          | 3,078.61          |
| Fuel Oil and Lubricants                                      | 2,676.42          | 3,312.88          | 3,280.36          | 3,351.75          | 3,948.01          |
| Other Operating Expenses                                     | 15,531.06         | 18,986.53         | 17,196.85         | 15,496.39         | 17,730.96         |
| Routine Maintenance  | 5,786.09          | 7,326.87          | 7,249.14          | 6,608.99          | 7,933.19          |
| Subsidies  | 106.58            | 980.21            | 818.97            | 1,314.71          | 870.11            |
| Interest   | 3,652.36          | 5,607.34          | 8,537.25          | 9,916.08          | 4,620.63          |
| Grants   | 13,986.57         | 34,216.97         | 49,659.29         | 55,172.73         | 83,012.57         |
| Other expense  | 9,639.88          | 9,351.32          | 4,703.87          | 7,973.37          | 2,473.82          |
| Social benefits  | 7,639.18          | 2,025.57          | 2,360.47          | 2,550.38          | 3,689.12          |
| <b>Acquisition of Non-financial Assets</b>                   | <b>66,336.42</b>  | <b>96,959.00</b>  | <b>84,427.99</b>  | <b>87,548.83</b>  | <b>120,830.15</b> |
| Building and Structures                                      | 52,937.88         | 77,548.44         | 70,064.35         | 73,255.14         | 100,284.46        |
| Plant and Machinery  | 9,247.47          | 12,473.17         | 9,775.68          | 8,842.03          | 14,379.93         |
| Inventories  | 1,757.06          | 2,214.96          | 1,749.40          | 1,600.12          | 2,234.13          |
| Non-produced assets & Land                                   | 2,394.01          | 4,722.42          | 2,838.56          | 3,851.53          | 3,931.63          |
| <b>Acquisition of Financial Assets</b>                       | <b>10,477.02</b>  | <b>11,612.93</b>  | <b>13,429.75</b>  | <b>10,077.84</b>  | <b>11,842.09</b>  |
| <b>Total</b>   | <b>336,397.48</b> | <b>405,531.74</b> | <b>417,153.55</b> | <b>425,039.63</b> | <b>514,271.66</b> |

Source: The National Treasury-IFMIS

\*Approved estimates

\* Provisional.

**5.20.** Table 5.15 details the classification of expenditure by functions for County Governments, from 2017/18 to 2021/22. Expenditure on general public services is estimated to increase by 32.1 per cent from KSh 141.8 billion to KSh 187.3 billion in 2021/22, accounting for 36.4 per cent of the total expenditure. Expenditure on economic affairs function is expect-

ed to grow by 21.3 per cent to KSh 95.2 billion in 2021/22. Expenditure on health is estimated to grow by 7.1 per cent to KSh 116.5 billion while expenditure on education is estimated to grow by 11.4 per cent to KSh 35.9 billion accounting for 22.7 per cent and 7.0 per cent of the total expenditure respectively in 2021/22.

**Table 5.15: County Governments Expenditures Classified by Functions, 2017/18 - 2021/22**

|                                  | <i>KSh Million</i> |                   |                   |                   |                   |
|----------------------------------|--------------------|-------------------|-------------------|-------------------|-------------------|
|                                  | 2017/18            | 2018/19           | 2019/20           | 2020/21*          | 2021/22*          |
| General Public Services          | 130,647.39         | 133,667.56        | 137,001.84        | 141,803.06        | 187,312.98        |
| Economic Affairs                 | 58,715.78          | 88,250.79         | 81,821.80         | 78,470.21         | 95,163.36         |
| General economic affairs         | 12,945.02          | 17,386.02         | 15,664.84         | 13,294.46         | 16,823.44         |
| Agriculture                      | 11,783.83          | 21,055.53         | 21,792.72         | 21,456.03         | 28,980.91         |
| Transport                        | 29,496.22          | 45,608.79         | 39,924.98         | 39,414.87         | 42,906.56         |
| Other economic Affairs           | 4,490.72           | 4,200.45          | 4,439.25          | 4,304.86          | 6,452.46          |
| Environmental Protection         | 10,809.34          | 14,391.45         | 11,840.48         | 12,293.37         | 14,301.59         |
| Housing and Community Ammenities | 22,671.51          | 37,915.84         | 38,986.15         | 43,127.96         | 52,909.81         |
| Health                           | 83,978.29          | 92,023.58         | 106,727.14        | 108,838.64        | 116,528.74        |
| Recreation, Culture and Religion | 4,869.95           | 5,965.27          | 7,619.42          | 6,550.87          | 9,630.30          |
| Education                        | 23,754.34          | 31,038.16         | 31,285.14         | 32,223.63         | 35,907.02         |
| Social Protection                | 950.87             | 2,279.09          | 1,871.57          | 1,731.90          | 2,517.85          |
| <b>Total</b>                     | <b>336,397.48</b>  | <b>405,531.74</b> | <b>417,153.55</b> | <b>425,039.63</b> | <b>514,271.66</b> |

Source: The National Treasury-IFMIS

\*Revised

^Provisional

### General Government

**5.21.** Table 5.16 details the consolidated General Government statement of operations from 2016/17 to 2020/21. Total revenue increased from KSh 2,255.5 in 2019/20 to KSh 2,268.5 billion in 2020/21. Tax revenue and other revenue accounted for 67.7 per cent and 29.1 per cent of the total revenue, respectively. Total expense grew by 5.5 per cent from KSh 2,765.8 billion to KSh 2,918.5 billion in 2020/21 with

compensation of employees, and use of goods and services accounting for 34.2 per cent and 20.6 per cent of the total expense, respectively. Expenditure on net acquisition of non-financial assets declined by 7.8 per cent to KSh 333.2 billion in 2020/21. General Government net borrowing position increased by 12.8 per cent to KSh 983.2 billion.

**Table 5.16: General Government Consolidated<sup>1</sup> Statement of Operations<sup>2</sup>, 2016/17 – 2020/21**

|  | <b>KSh Million</b>  |                     |                     |                     |                     |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|
|  | <b>2016/17</b>      | <b>2017/18</b>      | <b>2018/19</b>      | <b>2019/20*</b>     | <b>2020/21*</b>     |
| <b>Revenue</b>                             | <b>1,661,784.65</b> | <b>1,804,761.93</b> | <b>2,042,968.98</b> | <b>2,255,535.29</b> | <b>2,268,511.33</b> |
| Tax revenue                                | 1,286,814.89        | 1,350,988.58        | 1,557,817.34        | 1,468,680.81        | 1,536,348.32        |
| Social contributions                       | 45,704.32           | 55,354.32           | 15,558.25           | 41,585.66           | 40,167.26           |
| <b>Grants:</b>                             |                     |                     |                     |                     |                     |
| International organisation                 | 25,903.99           | 27,600.14           | 47,483.00           | 19,819.74           | 31,320.43           |
| Other revenue                              | 303,361.46          | 370,818.89          | 422,110.39          | 725,449.07          | 660,675.33          |
| Sale of Goods & Services                   | 122,583.60          | 122,292.96          | 230,556.31          | 328,108.54          | 329,252.29          |
| Property income                            | 53,892.51           | 52,965.75           | 43,445.92           | 162,916.31          | 98,172.64           |
| Ministerial AIA                            | 75,881.13           | 139,056.53          | 99,379.85           | 33,824.81           | 50,183.00           |
| Fines, Penalties &Forfeits                 | 17,555.26           | 18,414.57           | 3,018.68            | 2,228.19            | 2,305.37            |
| Other transfers NEC                        | 33,448.97           | 38,089.08           | 45,709.63           | 198,371.22          | 180,762.02          |
| <b>Expense</b>                             | <b>1,578,274.92</b> | <b>1,800,999.47</b> | <b>2,213,109.05</b> | <b>2,765,765.67</b> | <b>2,918,521.92</b> |
| Compensation of employees                  | 670,762.20          | 784,526.08          | 851,682.87          | 944,890.07          | 998,643.04          |
| Use of goods and services                  | 408,853.15          | 439,545.94          | 348,579.16          | 578,720.15          | 602,361.94          |
| CFC/Depreciation                           | 14,537.86           | 15,029.16           | 17,455.53           | 39,665.51           | 40,887.83           |
| Interest                                   | 243,616.09          | 329,429.36          | 382,705.62          | 451,240.63          | 510,100.82          |
| Subsidies                                  | 53,950.42           | 64,547.92           | 61,259.19           | 62,191.59           | 70,837.78           |
| <b>Grants:</b>                             |                     |                     |                     |                     |                     |
| International Organisation                 | 2,619.73            | 3,517.71            | 3,858.25            | 13,868.02           | 5,453.75            |
| Other General Government                   | 0.00                | 0.00                | 0.00                | 0.00                | 0.00                |
| Social benefits                            | 104,527.19          | 117,296.33          | 136,476.37          | 98,832.22           | 118,357.33          |
| Other expense                              | 79,408.29           | 47,106.97           | 411,092.05          | 576,357.45          | 571,879.43          |
| <b>Net Operating Balance</b>               | <b>83,509.73</b>    | <b>3,762.46</b>     | <b>-170,140.07</b>  | <b>-510,230.38</b>  | <b>-650,010.59</b>  |
| <b>Acquisition of Non-Financial Assets</b> | <b>421,070.30</b>   | <b>378,082.48</b>   | <b>477,674.91</b>   | <b>361,676.59</b>   | <b>333,174.40</b>   |
| Acquisition of fixed assets                | 425,753.35          | 373,873.01          | 522,107.19          | 381,878.24          | 348,024.02          |
| Inventories                                | 7,630.78            | 12,636.56           | 10,567.26           | 2,306.88            | 7,518.96            |
| Non-produced Assets and Land               | 10,452.73           | 9,380.32            | 10,684.18           | 64,035.58           | 50,305.06           |
| Disposal of non-financial assets           | -22,766.56          | -17,807.40          | -65,683.72          | -86,544.11          | -72,673.64          |
| <b>Net lending/Borrowing</b>               | <b>-337,560.58</b>  | <b>-374,320.02</b>  | <b>-647,814.98</b>  | <b>-871,906.97</b>  | <b>-983,184.99</b>  |

**Table 5.16: General Government Consolidated<sup>1</sup> Statement of Operations<sup>2</sup>, 2016/17 – 2020/21  
(Continued)**

|   | 2016/17            | 2017/18            | 2018/19             | 2019/20*            | 2020/21†            |
|---|--------------------|--------------------|---------------------|---------------------|---------------------|
| <b>Net Financial Worth</b>              | <b>-693,548.49</b> | <b>-683,734.29</b> | <b>-706,009.45</b>  | <b>-292,845.20</b>  | <b>-375,148.59</b>  |
| <b>Transactions in Financial assets</b> | <b>269,299.29</b>  | <b>298,035.90</b>  | <b>310,539.64</b>   | <b>1,092,579.80</b> | <b>1,053,030.08</b> |
| Currency and deposits                   | 47,199.76          | 105,712.40         | -67,330.04          | 564,919.81          | 607,222.54          |
| Debt securities                         | 40,675.14          | 51,631.34          | 2,483.97            | 8,291.94            | -9,825.09           |
| Loans                                   | 24,420.26          | 28,778.36          | 28,555.75           | 21,805.12           | 32,844.77           |
| Equity and investment fund shares       | 447.07             | 2,430.69           | -659.41             | 7,181.01            | 15,474.06           |
| Accounts receivable                     | 156,557.06         | 109,483.10         | 347,489.37          | 490,381.92          | 407,313.80          |
| <b>Transactions in Liabilities</b>      | <b>962,847.78</b>  | <b>981,770.19</b>  | <b>1,016,549.09</b> | <b>1,385,425.00</b> | <b>1,428,178.67</b> |
| Debt securities                         | 320,356.46         | 490,481.02         | 521,153.58          | 409,355.94          | 556,289.16          |
| Domestic                                | 320,356.46         | 295,700.70         | 308,824.11          | 409,355.94          | 556,289.16          |
| Foreign                                 | 0.00               | 194,780.33         | 212,329.48          | 0.00                | 0.00                |
| Loans                                   | 456,335.66         | 301,091.77         | 161,703.18          | 330,054.20          | 339,718.88          |
| Equity and investment fund shares       | 51,452.25          | 48,892.78          | 2,203.83            | 98,271.72           | 62,850.72           |
| Accounts payable                        | 134,703.41         | 141,304.62         | 331,488.49          | 547,743.13          | 469,319.90          |

Source: The National Treasury, Central Bank of Kenya

\* Provisional

† Revised

<sup>1</sup> Refers to netting out of Intra-sectoral transactions to avoid double counting.

<sup>2</sup> Consists of the National & County governments, and State-owned state corporations classified as non-market producers in the Public Sector.

# International Trade and Balance of Payments

## Overview

The gradual easing of protocols imposed in 2020 to contain the COVID-19 Pandemic resulted into the opening of economies and increased demand for goods and services, culminating into improved global trade in 2021. In mid-2021, merchandise trade flows from major economies had registered recovery to near pre-pandemic level. In Kenya, the easing of COVID-19 restrictions, led to the resumption of business and travel, albeit cautiously monitoring the evolutions of the COVID-19 Delta variants in mid-2021 and the Omicron variant towards the end of the year.

**6.2.** The volume of trade amounted to KSh 2,894.9 billion in 2021 rising from KSh 2,287.3 billion in 2020. This was occasioned by a 30.9 per cent growth in imports together with a 15.5 per cent increase in total exports. The increase in imports, which surpassed the increase in total exports, widened the trade deficit from KSh 999.9 billion in 2020 to KSh 1,407.6 billion in 2021.

**6.3.** Total export earnings improved from KSh 643.7 billion in 2020 to KSh 743.7 billion in 2021, translating to a 15.5 per cent increase. The growth was largely attributable to increases in domestic exports of horticulture; titanium ores and concentrates; and articles of apparel and clothing accessories. Similarly, imports rose from KSh 1,643.6 billion in 2020 to KSh 2,151.2 billion reflecting a 30.9 per cent growth, mainly driven by an increase in imports of petroleum products.

**6.4.** The current account deficit worsened from a deficit of KSh 510.1 billion in 2020 to a deficit of KSh 663.8 billion in 2021. This was largely on account of faster growth of merchandise imports relative to total exports. Receipts from services rose from KSh 388.8 billion in 2020 to KSh 530.7 billion in 2021, with travel receipts growing by 60.6 per cent, indicative of recovery in international travel following gradual easing of travel restrictions imposed earlier to contain the spread of COVID-19 pandemic. Similarly, there was an increase in net current transfers from a surplus of KSh 527.1 billion in 2020 to a surplus of KSh 670.8 billion in 2021, largely driven by sustained increases in inflows of remittances, amounting to KSh 413.3 billion in 2021.

**6.5.** Net inflows in the financial account increased from a surplus of KSh 289.5 billion in 2020 to a surplus of KSh 684.6 billion in 2021, largely attributable to increased inflows to Portfolio and Other Investment. There was a buildup of reserve assets by KSh 127.3 billion in 2021 from a drawdown of KSh 87.5 billion in 2020, mainly as a result of increase in Special Drawing Rights (SDR) holdings.

### Balance of Trade

**6.6.** Total exports increased by 15.5 per cent to KSh 743.7 billion in 2021, as shown in Table 6.1. This

increase in total exports was largely driven by a 17.5 per cent increase in earnings from domestic exports, which rose for the second consecutive year to KSh 666.7 billion in 2021. Imports, valued on cost, insurance and freight (c.i.f), registered a significant growth from KSh 1,643.6 billion in 2020 to KSh 2,151.2 billion in 2021. These increases led to an improvement in the volume of trade from KSh 2,287.3 billion in 2020 to KSh 2,894.9 billion in 2021, while the trade deficit deteriorated from a deficit of KSh 999.9 billion in 2020 to a deficit of 1,407.6 billion in 2021. Consequently, the export to import cover ratio declined from 39.2 per cent in 2020 to 34.6 per cent in 2021.

**Table 6.1: Balance of Merchandise Trade, 2017-2021**

|  | 2017                | 2018                | 2019                | 2020               | KSh Million<br>2021* |
|--|---------------------|---------------------|---------------------|--------------------|----------------------|
| <b>EXPORTS (f.o.b)</b>                   |                     |                     |                     |                    |                      |
| Domestic Exports <sup>1</sup>            | 534,392.8           | 542,856.5           | 520,787.4           | 567,370.4          | 666,738.7            |
| Re-exports                               | 63,511.3            | 71,459.2            | 75,889.3            | 76,335.8           | 76,932.4             |
| <b>Total</b>                             | <b>597,904.1</b>    | <b>614,315.7</b>    | <b>596,676.6</b>    | <b>643,706.2</b>   | <b>743,671.1</b>     |
| <b>IMPORTS (c.i.f)</b>                   |                     |                     |                     |                    |                      |
| Commercial <sup>1</sup>                  | 1,682,573.6         | 1,705,062.1         | 1,758,963.8         | 1,590,249.1        | 2,094,134.6          |
| Government                               | 53,898.5            | 59,409.3            | 47,370.8            | 53,310.9           | 57,098.6             |
| <b>Total</b>                             | <b>1,736,472.1</b>  | <b>1,764,471.5</b>  | <b>1,806,334.6</b>  | <b>1,643,560.1</b> | <b>2,151,233.1</b>   |
| <b>BALANCE OF TRADE<sup>2</sup></b>      | <b>-1,138,568.1</b> | <b>-1,150,155.8</b> | <b>-1,209,658.0</b> | <b>-999,853.9</b>  | <b>-1,407,562.0</b>  |
| <b>TOTAL TRADE</b>                       | <b>2,334,376.2</b>  | <b>2,378,787.2</b>  | <b>2,403,011.2</b>  | <b>2,287,266.2</b> | <b>2,894,904.2</b>   |
| COVER RATIO <sup>3</sup> (in percentage) | 34.4                | 34.8                | 33.0                | 39.2               | 34.6                 |

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority

\*Provisional

<sup>1</sup>Adjusted for data on Small Scale Cross Border Trade and Electricity

<sup>2</sup>Balance of Trade = Total Exports minus Total Imports

<sup>3</sup>Cover Ratio = (Total Exports/Total Imports)\*100

f.o.b: free on board

c.i.f: cost, insurance and freight

## Price Changes

**6.7.** Highlights of export and import unit price indices of commodity groups for the period 2017 to 2021 are presented in Table 6.2. There was a notable increase in all exports price index from 142.6 in 2020 to 157.7 in 2021. The increase was majorly as a result of increase in export price indices of machinery and transport equipment; and animal and vegetable oils and fats which rose by 62.7 per cent and 39.3 per cent,

respectively. Over the same period, all imports price index increased by 13.1 per cent to 215.2 in 2021. This was occasioned by an increase in import price indices of all commodity groupings except import price indices of food and live animals; and miscellaneous manufactured articles which decreased by 5.5 per cent and 17.1 per cent, respectively, in 2021.

**Table 6.2: Export and Import Price Indices, 2017-2021**

|                                     | 2009=100     |              |              |              |              |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|
|                                     | 2017         | 2018         | 2019         | 2020         | 2021*        |
| <b>EXPORTS:</b>                     |              |              |              |              |              |
| Food and live animals               | 169.6        | 150.4        | 144.0        | 135.0        | 155.6        |
| Beverages and tobacco               | 167.9        | 164.7        | 154.1        | 174.6        | 136.2        |
| Crude materials, (inedible)         | 113.9        | 141.1        | 146.9        | 175.1        | 166.2        |
| Mineral fuels                       | 108.3        | 167.4        | 152.6        | 147.3        | 162.8        |
| Animal and vegetable oils and fats  | 125.8        | 114.4        | 157.3        | 135.0        | 188.0        |
| Chemicals                           | 116.0        | 156.2        | 123.4        | 126.1        | 133.5        |
| Manufactured goods                  | 132.3        | 109.4        | 106.2        | 119.6        | 140.0        |
| Machinery and transport equipment   | 213.4        | 254.7        | 188.9        | 100.4        | 163.4        |
| Miscellaneous manufactured articles | 190.6        | 189.2        | 200.2        | 172.0        | 197.7        |
| <b>All Exports</b>                  | <b>150.4</b> | <b>151.1</b> | <b>145.1</b> | <b>142.6</b> | <b>157.7</b> |
| Non-oil Exports                     | 151.2        | 150.8        | 145.0        | 142.5        | 157.7        |
| <b>IMPORTS:</b>                     |              |              |              |              |              |
| Food and live animals               | 191.3        | 260.0        | 274.5        | 205.2        | 193.9        |
| Beverages and tobacco               | 125.2        | 176.0        | 191.8        | 170.7        | 212.9        |
| Crude materials, (inedible)         | 152.3        | 187.1        | 181.1        | 167.1        | 178.0        |
| Mineral fuels                       | 125.3        | 159.5        | 147.8        | 101.1        | 154.0        |
| Animal and vegetable oils and fats  | 148.8        | 126.5        | 109.1        | 148.4        | 199.1        |
| Chemicals                           | 161.2        | 184.5        | 190.8        | 158.6        | 228.9        |
| Manufactured goods                  | 147.0        | 151.5        | 152.0        | 158.4        | 186.1        |
| Machinery and transport equipment   | 331.1        | 339.5        | 335.1        | 295.4        | 296.8        |
| Miscellaneous manufactured articles | 159.3        | 160.8        | 177.3        | 197.1        | 163.3        |
| <b>All Imports</b>                  | <b>199.2</b> | <b>222.1</b> | <b>213.4</b> | <b>190.3</b> | <b>215.2</b> |
| Non-oil Imports                     | 221.6        | 241.8        | 233.4        | 218.2        | 233.5        |

\* Provisional

### Terms of Trade

**6.8.** Table 6.3 presents terms of trade for the period 2017 to 2021. The terms of trade for all items reduced from 74.9 per cent in 2020 to 73.3 per cent in 2021. In contrast, terms of trade for non-oil items increased from 65.3 per cent in 2020 to 67.5 per cent in 2021.

**Table 6.3: Terms of Trade<sup>1</sup>, 2017-2021**

|               | 2017 | 2018 | 2019 | 2020 | 2021* |
|---------------|------|------|------|------|-------|
| All Items     | 75.5 | 68.0 | 68.0 | 74.9 | 73.3  |
| Non-oil Items | 68.2 | 62.4 | 62.1 | 65.3 | 67.5  |

\* Provisional

<sup>1</sup>Terms of Trade is the ratio of Export Price Index to Import Price Index

### Quantum Indices

**6.9.** Quantum indices for the period 2017 to 2021 are illustrated in Table 6.4. In 2021, the quantum index of all exports went up by 6.2 per cent to 130.1. Similarly, the quantum index of non-oil exports increased by 6.3 per cent to 131.8 over the same period. The growth was due to increase in quantum indices of all export commodity groups except food and live animals; mineral fuels; and machinery and transport equipment which declined by 5.9, 7.5 and 23.2 per cent respectively, in 2021.

**6.10.** The overall quantum index of imports rose from 109.3 in 2020 to 126.6 in 2021. This was due to increase in quantum indices of all import commodity groupings except for animal and vegetable oils and fats; and chemicals which declined by 4.3 per cent and 14.1 per cent respectively. In addition, the quantum index of non-oil import commodities registered a 17.0 per cent increase to 122.0 in 2021.

**Table 6.4: Quantum Indices, 2017-2021**

|                                     | 2017         | 2018         | 2019         | 2020         | 2021*        | 2009=100 |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|----------|
| <b>EXPORTS:</b>                     |              |              |              |              |              |          |
| Food and live animals               | 113.7        | 130.0        | 121.2        | 147.4        | 138.7        |          |
| Beverages and tobacco               | 75.3         | 78.5         | 75.2         | 78.3         | 91.1         |          |
| Crude materials, (inedible)         | 178.9        | 149.1        | 142.7        | 124.7        | 172.0        |          |
| Mineral fuels                       | 70.0         | 39.0         | 53.9         | 56.0         | 51.8         |          |
| Animal and vegetable oils and fats  | 58.4         | 79.3         | 69.2         | 127.1        | 134.7        |          |
| Chemicals                           | 115.0        | 92.1         | 117.1        | 124.3        | 135.6        |          |
| Manufactured goods                  | 75.2         | 85.5         | 94.8         | 83.1         | 98.2         |          |
| Machinery and transport equipment   | 38.1         | 39.5         | 66.5         | 101.1        | 77.6         |          |
| Miscellaneous manufactured articles | 96.3         | 98.0         | 90.7         | 109.1        | 116.4        |          |
| <b>All Exports</b>                  | <b>109.2</b> | <b>110.9</b> | <b>110.8</b> | <b>122.5</b> | <b>130.1</b> |          |
| Non-oil Exports                     | 109.9        | 112.6        | 112.1        | 124.0        | 131.8        |          |
| <b>IMPORTS:</b>                     |              |              |              |              |              |          |
| Food and live animals               | 148.7        | 77.2         | 76.3         | 94.9         | 122.8        |          |
| Beverages and tobacco               | 164.4        | 149.9        | 148.3        | 123.5        | 134.1        |          |
| Crude materials, (inedible)         | 109.6        | 108.8        | 137.5        | 140.0        | 159.3        |          |
| Mineral fuels                       | 133.3        | 127.3        | 135.3        | 135.7        | 147.4        |          |
| Animal and vegetable oils and fats  | 167.0        | 170.3        | 199.1        | 229.9        | 220.1        |          |
| Chemicals                           | 144.1        | 134.7        | 129.7        | 169.1        | 145.3        |          |
| Manufactured goods                  | 163.2        | 184.9        | 183.0        | 172.1        | 197.4        |          |
| Machinery and transport equipment   | 61.7         | 57.2         | 62.6         | 60.4         | 72.7         |          |
| Miscellaneous manufactured articles | 194.3        | 210.1        | 181.1        | 147.9        | 216.0        |          |
| <b>All Imports</b>                  | <b>109.9</b> | <b>100.6</b> | <b>107.1</b> | <b>109.3</b> | <b>126.6</b> |          |
| Non-oil Imports                     | 105.2        | 94.7         | 101.2        | 104.3        | 122.0        |          |

\* Provisional

### Quantities of Principal Domestic Exports

**6.11.** Table 6.5 presents quantities of principal domestic exports for the period 2017 to 2021. The volume of domestic exports of horticultural products went up by 15.2 per cent to 682.3 thousand metric tonnes in 2021. Other products that registered increased quantities of domestic exports include titanium ores and concentrates, cement and soda ash which rose by 11.2, 43.7 and 32.6 per cent to 444.6, 172.5 and 302.5 thousand metric tonnes, respectively.

**6.12.** In contrast, quantities of exported tea declined from 576.1 thousand metric tonnes in 2020 to 557.3 thousand metric tonnes in 2021 on account of reduced tea production. Domestic exports of coffee also declined from 43.4 thousand tonnes in 2020 to 37.5 thousand tonnes in 2021. Quantities of exported iron and steel decreased by 7.1 per cent to 140.3 thousand metric tonnes in 2021. In addition, the number of exported automatic data processing machines more than halved from 14,724 in 2020 to 7,047 in 2021.

**Table 6.5: Quantities of Principal Domestic Exports, 2017-2021**

| Commodity  | Unit         | 2017      | 2018      | 2019      | 2020      | 2021*     |
|--|--------------|-----------|-----------|-----------|-----------|-----------|
| Fish and fish preparations                                       | Tonne        | 5,321.1   | 7,250.2   | 8,844.3   | 8,418.3   | 10,875.3  |
| Maize (unmilled,excluding sweet corn)                            | Tonne        | 5,419.7   | 2,673.3   | 3,128.8   | 6,640.6   | 5,127.6   |
| Meals and flours of wheat  | Tonne        | 1,648.0   | 2,281.6   | 2,032.1   | 2,748.6   | 2,867.4   |
| Horticulture   | Tonne        | 457,201.3 | 497,416.9 | 467,602.7 | 592,068.2 | 682,279.4 |
| Sugar confectionery  | Tonne        | 31,064.0  | 29,042.3  | 34,800.7  | 49,901.5  | 64,670.2  |
| Coffee, unroasted  | Tonne        | 43,469.4  | 44,679.6  | 48,735.1  | 43,407.0  | 37,504.1  |
| Tea  | Tonne        | 467,032.9 | 501,785.7 | 475,502.9 | 576,052.9 | 557,351.0 |
| Margarine and shortening   | Tonne        | 18,102.2  | 19,523.1  | 20,795.4  | 20,863.3  | 21,654.0  |
| Edible products and preparations, n.e.s.                         | Tonne        | 25,463.4  | 27,685.3  | 32,116.6  | 35,493.7  | 43,108.3  |
| Beer made from malt  | 000 Lt.      | 28,593.7  | 33,965.1  | 21,739.2  | 18,583.4  | 21,953.4  |
| Tobacco and tobacco manufactures.                                | Tonne        | 21,439.3  | 21,775.2  | 20,295.0  | 24,081.7  | 19,983.9  |
| Hides and skins  | Tonne        | 1,105.2   | 1,221.4   | 1,662.4   | 1,083.3   | 2,496.3   |
| Sisal*   | Tonne        | 22,119.8  | 28,593.7  | 24,133.5  | 27,655.4  | 31,152.1  |
| Stone, sand and gravel   | Tonne        | 92,408.4  | 147,615.1 | 159,663.3 | 163,996.5 | 183,779.4 |
| Fluorspar  | Tonne        | 8,925.8   | 0.0       | 0.0       | 0.0       | 0.0       |
| Salt   | Tonne        | 320,441.9 | 311,816.6 | 266,402.0 | 264,615.3 | 265,788.0 |
| Soda ash   | Tonne        | 342,639.3 | 294,305.6 | 254,714.3 | 228,199.8 | 302,536.4 |
| Titanium ores and concentrates ..                                | Tonne        | 533,762.5 | 563,835.2 | 425,502.4 | 399,743.0 | 444,620.0 |
| Metal scrap  | Tonne        | 12,647.3  | 14,211.7  | 12,726.7  | 12,462.0  | 17,874.9  |
| Animal and Vegetable oils  | Tonne        | 36,058.8  | 56,507.7  | 85,936.2  | 99,506.4  | 96,610.4  |
| Alcohols and derivatives thereof                                 | 000 Lt.      | 4,871.6   | 1,698.4   | 1,123.7   | 1,189.6   | 1,462.1   |
| Pigments, paints, varnishes and related materials                | Tonne        | 14,337.9  | 15,162.4  | 13,514.3  | 14,963.6  | 15,977.6  |
| Medicinal and pharmaceutical products                            | Tonne        | 13,876.5  | 13,085.6  | 12,576.7  | 13,258.1  | 11,864.3  |
| Essential oils   | Tonne        | 88,158.4  | 101,972.5 | 124,860.6 | 143,252.4 | 149,593.4 |
| Plates, sheets, film, foil and strip, of plastics                | Tonne        | 5,194.0   | 5,105.2   | 5,211.6   | 5,696.7   | 6,582.4   |
| Insecticides and fungicides                                      | Tonne        | 2,455.3   | 2,873.8   | 2,659.5   | 3,698.1   | 4,335.0   |
| Leather  | Tonne        | 24,270.6  | 23,141.6  | 15,775.4  | 8,626.3   | 8,634.3   |
| Wood manufactures n.e.s  | Tonne        | 263.3     | 279.4     | 415.7     | 375.4     | 582.2     |
| Paper and paperboard   | Tonne        | 32,769.6  | 33,860.5  | 27,018.9  | 22,695.0  | 20,713.4  |
| Textile yarn   | Tonne        | 1,921.1   | 1,797.9   | 1,916.1   | 2,048.1   | 1,901.7   |
| Made-up articles, wholly or chiefly of textile materials, n.e.s. | Tonne        | 7,763.8   | 7,245.7   | 8,285.7   | 8,894.7   | 8,085.3   |
| Glassware  | Tonne        | 14,192.8  | 14,558.3  | 16,572.0  | 18,518.9  | 19,675.0  |
| Cement   | Tonne        | 387,593.1 | 144,275.3 | 61,658.0  | 120,023.5 | 172,523.3 |
| Iron and steel   | Tonne        | 108,717.4 | 110,471.6 | 149,325.2 | 151,053.1 | 140,323.9 |
| Metal containers   | Tonne        | 2,456.1   | 1,931.7   | 3,120.3   | 3,939.3   | 5,341.2   |
| Wire products: nails screws, nuts, etc.                          | Tonne        | 7,211.6   | 5,121.9   | 4,083.3   | 4,550.7   | 11,523.4  |
| Household equipment of base metal, n.e.s.                        | Tonne        | 6,224.5   | 3,550.5   | 3,741.8   | 3,677.1   | 5,437.8   |
| Manufactures of base metal, n.e.s.                               | Tonne        | 11,480.2  | 12,107.6  | 11,955.7  | 10,223.6  | 8,227.4   |
| Automatic data processing machines and units thereof             | No's         | 33,050.0  | 8,560.0   | 23,335.0  | 14,724.4  | 7,047.0   |
| Footwear   | ' 000' Pairs | 34,480.2  | 34,411.0  | 39,268.7  | 35,518.7  | 29,367.8  |
| Printed matter   | Tonne        | 4,909.2   | 5,643.8   | 4,544.1   | 5,173.0   | 7,001.5   |
| Articles of plastic  | Tonne        | 43,306.8  | 33,900.9  | 43,563.5  | 47,750.1  | 57,302.7  |

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority

\*Revised

\*Provisional.

## Quantities of Principal Imports

**6.13.** Table 6.6 shows the quantities of principal imports for the period 2017 to 2021. The quantities of imported cement clinkers declined from 2.0 million metric tonnes in 2020 to 1.1 million metric tonnes in 2021, reflecting a 46.9 per cent decline. Other commodities which exhibited notable declines in imported quantities during the year include wheat flour (87.6%), animal and vegetable fats and oils (23.3%), chemical fertilizers (9.3%); and insecticides and fungicides (25.8%).

**6.14.** The volume of imported maize nearly doubled from 273.5 thousand metric tonnes in 2020 to 486.5 thousand metric tonnes in 2021. Similarly, quantities of imported secondhand clothing increased by 50.9 per cent to 183.8 thousand metric tonnes in 2021 while quantities of imported paper and paper board rose by 14.1 per cent to 362.7 thousand metric tonnes in 2021.

**Table 6.6: Quantities of Principal Imports, 2017-2021**

| Commodity   | Unit     | 2017        | 2018        | 2019        | 2020        | 2021*       |
|---|----------|-------------|-------------|-------------|-------------|-------------|
| Wheat, unmilled   | Tonne    | 1,854,953.8 | 1,736,691.7 | 1,998,852.1 | 1,882,450.5 | 1,889,921.9 |
| Rice  | Tonne    | 625,142.7   | 599,338.8   | 608,601.9   | 605,147.5   | 630,910.5   |
| Maize(unmilled,excluding sweet corn)                      | Tonne    | 1,327,971.7 | 529,558.3   | 228,783.5   | 273,472.2   | 486,525.0   |
| Wheat flour   | Tonne    | 13,951.2    | 22,641.7    | 987.8       | 4,942.9     | 611.1       |
| Sugars, Mollases and Honey                                | Tonne    | 1,119,609.4 | 408,383.0   | 627,167.6   | 482,070.2   | 468,785.1   |
| Edible products and preparations, n.e.s.                  | Tonne    | 104,972.5   | 92,864.5    | 102,742.1   | 89,959.0    | 85,988.5    |
| Textile fibres and their waste                            | Tonne    | 20,124.7    | 24,145.6    | 24,344.6    | 26,867.4    | 29,468.3    |
| Second - hand clothing                                    | Tonne    | 135,868.4   | 177,160.0   | 184,555.2   | 121,778.2   | 183,830.1   |
| Petroleum products  | Mn. Lt.  | 5,542.1     | 5,471.3     | 6,234.9     | 5,514.3     | 6,148.7     |
| Residual petroleum products, n.e.s. and related materials | Tonne    | 87,123.6    | 177,988.8   | 150,110.7   | 198,441.6   | 152,674.9   |
| Liquefied propane and butane                              | Tonne    | 198,481.9   | 240,484.3   | 304,407.7   | 321,183.9   | 373,865.3   |
| Animal/vegetable fats and oils                            | Tonne    | 850,497.4   | 867,296.9   | 1,006,481.3 | 1,208,218.6 | 926,435.4   |
| Organic & inorganic chemicals                             | Tonne    | 279,539.7   | 315,055.3   | 342,366.9   | 360,441.3   | 346,409.4   |
| Pigments, paints, varnishes and related materials         | Tonne    | 43,330.6    | 52,511.7    | 44,341.8    | 49,431.7    | 52,159.1    |
| Medicinal and pharmaceutical products                     | Tonne    | 24,790.8    | 29,847.8    | 32,377.7    | 39,389.1    | 30,182.2    |
| Essential oils & perfumes                                 | Tonne    | 64,353.3    | 64,187.5    | 72,427.3    | 73,134.0    | 85,819.5    |
| Chemical fertilizers                                      | Tonne    | 853,113.0   | 632,074.6   | 768,824.9   | 836,071.9   | 758,456.5   |
| Plastics in primary & non-primary forms                   | Tonne    | 453,783.5   | 471,676.2   | 501,451.4   | 569,396.2   | 576,188.6   |
| Insecticides and fungicides                               | Tonne    | 17,986.0    | 20,340.1    | 15,606.0    | 25,809.7    | 19,159.2    |
| Miscellaneous chemical products, n.e.s                    | Tonne    | 50,075.8    | 49,330.3    | 49,388.6    | 54,012.7    | 55,810.3    |
| Rubber tyres and inner tubes, for wheels of all kinds     | "000" No | 8,123.6     | 10,476.2    | 10,182.3    | 10,985.2    | 11,338.7    |

**Table 6.6: Quantities of Principal Imports, 2017-2021 (Continued)**

| Commodity  | Unit    | 2017        | 2018        | 2019        | 2020        | 2021*       |
|--|---------|-------------|-------------|-------------|-------------|-------------|
| Paper and Paperboard   | Tonne   | 365,370.7   | 400,137.1   | 359,150.6   | 317,842.0   | 362,717.6   |
| Textile yarn.  | Tonne   | 19,696.1    | 21,917.8    | 21,828.1    | 18,874.3    | 23,436.4    |
| Cement Clinkers  | Tonne   | 1,504,626.5 | 2,016,670.0 | 1,813,898.4 | 2,008,427.2 | 1,065,708.6 |
| Iron and steel   | Tonne   | 1,374,712.5 | 1,313,822.2 | 1,594,243.5 | 1,737,982.6 | 1,711,277.0 |
| Non-ferrous metals   | Tonne   | 46,035.8    | 46,321.9    | 40,226.0    | 48,470.2    | 44,110.4    |
| Structures and parts of structures of iron, steel or aluminium       | Tonne   | 69,821.4    | 59,363.5    | 45,920.2    | 47,972.2    | 62,565.7    |
| Hand & machine tools   | Tonne   | 9,471.9     | 11,932.9    | 12,731.6    | 14,438.8    | 12,590.9    |
| Manufactures of base metal, n.e.s                                    | Tonne   | 45,873.3    | 45,327.4    | 42,730.3    | 45,064.1    | 43,105.7    |
| Industrial Machinery <sup>1</sup>                                    | -       | -           | -           | -           | -           | -           |
| Agricultural Machinery and Tractors <sup>1</sup>                     | -       | -           | -           | -           | -           | -           |
| Automatic data processing machines and units thereof                 | "000"No | 1,245.3     | 498.4       | 1,089.2     | 938.3       | 1,241.0     |
| Telecommunications equipment, n.e.s., and parts, n.e.s. <sup>1</sup> | -       | -           | -           | -           | -           | -           |
| Parts, n.e.s. and accessories of the motor vehicles <sup>1</sup>     | -       | -           | -           | -           | -           | -           |
| Motorcycles and cycles fitted with an auxilliary motor               | "000"No | 199.7       | 204.2       | 231.4       | 232.9       | 342.2       |
| Bicycles, assembled or partly assembled                              | "000"No | 151.2       | 159.7       | 198.9       | 210.9       | 256.7       |
| Road Motor Vehicles  | Nos.    | 94,464.0    | 101,964.0   | 109,933.0   | 94,569.0    | 103,859.0   |
| Aircraft and associated equipment <sup>1</sup>                       | -       | -           | -           | -           | -           | -           |
| Prefabricated buildings  | Tonne   | 19,263.2    | 18,185.4    | 9,403.7     | 9,205.4     | 10,752.8    |
| Furniture and parts thereof <sup>1</sup>                             | -       | -           | -           | -           | -           | -           |
| Quality control instruments and apparatus, n.e.s. <sup>1</sup>       | -       | -           | -           | -           | -           | -           |
| Printed matter   | Tonne   | 8,876.4     | 14,150.5    | 13,835.5    | 6,298.5     | 8,788.6     |
| Articles, n.e.s., of plastics  | Tonne   | 42,345.5    | 42,043.2    | 38,540.8    | 37,569.8    | 36,026.6    |

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority

\* Provisional.

<sup>1</sup> Items have different units of measurement

## Values of Principal Exports

**6.15.** Table 6.7 presents the value of principal domestic exports for the period 2017 to 2021. Domestic exports were valued at KSh 666.7 billion in 2021 compared to KSh 567.4 billion in 2020, representing a 17.5 per cent increase. This was largely attributable to increases in earnings from horticultural products (21.8%); articles of apparel and clothing accessories (29.7%); animal and vegetable oils (47.3%); titanium ores and concentrates (26.4%); and iron and steel (28.5%). Domestic exports of horticultural products, valued at KSh 165.7 billion, accounted for 24.8 per

cent of the total domestic exports while tea accounted for 19.6 per cent and was valued at KSh 130.9 billion, in 2021. Domestic exports of animal and vegetable oils continued to grow for the fifth consecutive year, with earnings amounting to KSh 15.2 billion in 2021.

**6.16.** In contrast, the value of domestic exports of tobacco and tobacco manufactures registered a 16.4 per cent decline from KSh 16.3 billion in 2020 to KSh 13.7 billion in 2021.

**Table 6.7: Values of Principal Domestic Exports<sup>1</sup>, 2017-2021**

| Commodity   | 2017      | 2018      | 2019      | 2020      | KSh Million<br>2021* |
|---|-----------|-----------|-----------|-----------|----------------------|
| Fish and fish preparations                        | 2,124.8   | 2,975.0   | 3,412.8   | 2,739.1   | 3,431.2              |
| Maize (unmilled,excluding sweet corn)             | 766.4     | 513.8     | 508.7     | 1,147.7   | 642.8                |
| Meals and flours of wheat                         | 72.0      | 88.9      | 94.3      | 150.8     | 166.4                |
| Horticulture                                      | 113,349.4 | 124,266.8 | 122,916.3 | 135,959.7 | 165,655.4            |
| Sugar confectionery                               | 5,073.0   | 4,854.6   | 4,884.5   | 5,721.1   | 6,877.8              |
| Coffee, unroasted                                 | 23,452.7  | 23,094.9  | 20,309.9  | 22,242.7  | 26,141.1             |
| Tea   | 147,250.8 | 138,835.5 | 113,550.7 | 130,353.4 | 130,896.6            |
| Margarine and shortening                          | 2,368.1   | 2,705.2   | 3,492.1   | 3,803.0   | 4,604.2              |
| Edible products and preparations, n.e.s.          | 5,985.2   | 5,938.6   | 6,740.1   | 7,510.7   | 9,678.5              |
| Beer made from malt                               | 2,520.9   | 2,641.1   | 1,695.3   | 1,573.3   | 1,952.8              |
| Tobacco and tobacco manufactures                  | 13,735.7  | 13,988.0  | 13,024.0  | 16,334.1  | 13,652.7             |
| Hides and skins (undressed)                       | 51.1      | 66.1      | 152.2     | 56.2      | 123.1                |
| Sisal <sup>+</sup>                                | 3,909.5   | 4,080.3   | 3,886.9   | 4,571.1   | 5,488.6              |
| Stone, sand and gravel                            | 578.9     | 791.5     | 769.6     | 855.3     | 1,055.5              |
| Fluorspar   | 158.8     | 0.0       | 0.0       | 0.0       | 0.0                  |
| Salt  | 4,039.6   | 4,141.1   | 3,870.7   | 4,806.4   | 4,202.6              |
| Soda ash  | 7,090.7   | 6,663.8   | 6,113.0   | 5,198.1   | 6,479.1              |
| Titanium ores and concentrates                    | 13,792.7  | 15,364.2  | 13,852.5  | 16,687.9  | 21,095.1             |
| Metal scrap                                       | 3,328.0   | 3,943.1   | 3,388.6   | 3,082.3   | 5,989.4              |
| Animal and Vegetable oils                         | 4,356.0   | 5,338.4   | 6,516.9   | 10,347.1  | 15,241.2             |
| Alcohols and derivatives thereof                  | 405.4     | 197.6     | 109.0     | 132.4     | 221.2                |
| Pigments, paints, varnishes and related materials | 2,171.8   | 2,653.3   | 2,197.1   | 2,248.3   | 2,622.7              |
| Medicinal and pharmaceutical products             | 10,951.5  | 10,445.0  | 10,326.7  | 10,964.5  | 11,116.2             |
| Essential oils                                    | 10,113.1  | 11,850.7  | 13,391.3  | 15,811.9  | 18,978.1             |

**Table 6.7: Values of Principal Domestic Exports<sup>1</sup>, 2017-2021 (Continued)**

| Commodity  | 2017             | 2018             | 2019             | 2020             | KSh Million<br>2021* |
|--|------------------|------------------|------------------|------------------|----------------------|
| Plates, sheets, film, foil and strip, of plastics                | 1,636.8          | 1,815.5          | 2,005.3          | 2,022.3          | 2,572.5              |
| Insecticides and fungicides                                      | 1,716.3          | 1,981.8          | 1,871.3          | 2,662.8          | 2,468.2              |
| Leather  | 5,088.3          | 4,420.4          | 2,947.9          | 2,086.4          | 1,903.8              |
| Wood manufactures n.e.s  | 135.2            | 149.1            | 148.4            | 120.9            | 121.4                |
| Paper and paperboard   | 4,855.0          | 5,626.7          | 4,716.1          | 4,265.4          | 3,535.2              |
| Textile yarn   | 859.0            | 798.6            | 835.3            | 1,052.3          | 1,012.6              |
| Made-up articles, wholly or chiefly of textile materials, n.e.s. | 2,080.9          | 1,962.4          | 2,192.3          | 2,506.1          | 2,197.0              |
| Glassware  | 924.1            | 927.3            | 1,069.2          | 1,245.9          | 1,330.5              |
| Cement   | 3,505.2          | 1,482.6          | 679.0            | 1,148.2          | 1,656.4              |
| Iron and steel   | 11,716.7         | 12,344.0         | 15,697.6         | 14,889.0         | 19,137.9             |
| Metal containers   | 511.5            | 393.0            | 669.0            | 768.6            | 1,056.3              |
| Wire products: nails screws, nuts, etc                           | 1,077.1          | 557.4            | 525.0            | 538.6            | 1,305.6              |
| Household equipment of base metal, n.e.s                         | 1,907.3          | 867.7            | 1,083.9          | 1,272.8          | 1,734.1              |
| Manufactures of base metal, n.e.s.                               | 2,562.4          | 2,821.7          | 2,813.4          | 2,195.1          | 2,199.4              |
| Automatic data processing machines and units thereof             | 167.4            | 243.7            | 299.4            | 359.1            | 307.3                |
| Electrical machinery and apparatus, n.e.s.                       | 1,517.7          | 1,966.6          | 2,114.5          | 2,474.3          | 2,956.2              |
| Trailers and semi-trailers; other vehicles                       | 947.9            | 1,315.7          | 1,121.9          | 950.3            | 1,201.3              |
| Furniture and parts thereof;                                     | 1,068.5          | 1,025.2          | 1,293.7          | 1,094.9          | 1,189.8              |
| Footwear   | 3,229.5          | 3,369.0          | 3,825.9          | 4,210.1          | 3,712.5              |
| Printed matter   | 5,682.6          | 6,859.9          | 3,241.2          | 5,578.8          | 5,322.4              |
| Articles of plastics   | 8,800.8          | 7,200.1          | 6,759.5          | 7,581.5          | 8,596.9              |
| Articles of apparel and clothing accessories                     | 32,447.6         | 34,328.4         | 34,767.7         | 32,918.4         | 42,700.6             |
| <b>TOTAL</b>   | <b>470,084.0</b> | <b>477,894.4</b> | <b>445,880.8</b> | <b>494,238.8</b> | <b>564,530.0</b>     |
| All other Commodities  | 64,308.8         | 64,962.1         | 74,906.6         | 73,131.6         | 102,208.7            |
| <b>GRAND TOTAL</b>   | <b>534,392.8</b> | <b>542,856.5</b> | <b>520,787.4</b> | <b>567,370.4</b> | <b>666,738.7</b>     |

Source: Kenya National Bureau of Statistics/ Kenya Revenue Authority

\* Provisional

<sup>1</sup>Includes data on Small Scale Cross Border Trade and Electricity

+ Revised

## Values of Principal Imports

**6.17.** Table 6.8 highlights the values of principal import commodities for the period 2017 to 2021. Import expenditure grew from KSh 1,643.6 billion in 2020 to KSh 2,151.2 billion in 2021. The commodities that contributed immensely to the growth include petroleum products (66.7%), iron and steel (48.0%), animal and vegetable fats and oils (28.4%), industrial machinery (9.9%), and road motor vehicles (22.5%). Petroleum products accounted for the bulk of the import bill, with expenditure on this commodity rising from KSh 201.1 billion in 2020 to KSh 335.3 billion in 2021 occasioned by the increase in the

price of crude petroleum in the international markets. Increased expenditure was also observed in imports of food products such as wheat, rice and maize with expenditure on these commodities jointly rising from KSh 82.7 billion in 2020 to KSh 107.3 billion in 2021.

**6.18.** Expenditure on imported telecommunication equipment; and insecticides and fungicides went down by 11.5 per cent and 17.6 per cent respectively, in 2021. Similarly, there was a decline in the value of imports of cement clinkers from KSh 8.6 billion in 2020 to KSh 6.7 billion in 2021.

**Table 6.8: Values of Principal Imports<sup>1</sup>, 2017-2021**

| Commodity   | 2017      | 2018      | 2019      | 2020      | KSh Million<br>2021* |
|---|-----------|-----------|-----------|-----------|----------------------|
| Wheat, unmilled   | 42,400.1  | 42,898.5  | 51,346.5  | 48,934.0  | 62,403.4             |
| Rice  | 26,781.9  | 25,589.5  | 25,062.6  | 26,336.1  | 31,148.3             |
| Maize(unmilled,excluding sweet corn)                      | 40,265.0  | 12,008.4  | 6,297.3   | 7,460.2   | 13,749.2             |
| Wheat flour   | 618.2     | 823.0     | 43.9      | 213.7     | 35.4                 |
| Sugars, Mollases and Honey                                | 61,626.8  | 22,508.3  | 33,257.3  | 26,920.5  | 28,855.8             |
| Edible products and preparations, n.e.s.                  | 11,941.7  | 11,034.9  | 13,060.7  | 16,393.8  | 16,272.2             |
| Textile fibres and their waste                            | 5,386.8   | 6,549.5   | 6,584.7   | 6,584.6   | 8,034.8              |
| Second - hand clothing                                    | 13,061.3  | 16,933.2  | 17,770.2  | 12,242.0  | 18,964.2             |
| Petroleum Products  | 234,896.0 | 295,059.6 | 307,468.6 | 201,141.7 | 335,338.1            |
| Residual petroleum products, n.e.s. and related materials | 4,780.5   | 7,429.0   | 7,914.4   | 8,969.9   | 8,998.5              |
| Liquefied propane and butane                              | 11,748.7  | 15,090.0  | 16,042.4  | 15,384.5  | 25,979.9             |
| Animal/vegetable fats and oils                            | 68,553.5  | 59,425.9  | 59,891.7  | 94,105.2  | 120,828.5            |
| Organic & inorganic chemicals                             | 26,046.6  | 30,318.5  | 26,485.6  | 27,955.7  | 35,306.9             |
| Pigments, paints, varnishes and related materials         | 7,670.8   | 8,747.1   | 8,565.3   | 8,952.1   | 10,510.3             |
| Medicinal & Pharmaceuticals Products                      | 55,623.4  | 59,746.4  | 65,758.0  | 75,918.8  | 88,442.5             |
| Essential oils & perfumes                                 | 21,926.9  | 22,859.6  | 24,229.1  | 21,124.6  | 26,341.1             |
| Chemical Fertilizers                                      | 29,159.2  | 23,492.3  | 27,011.3  | 27,413.8  | 38,808.8             |
| Plastics in primary & non-primary forms                   | 61,308.0  | 68,868.4  | 66,498.2  | 69,232.9  | 98,231.3             |
| Insecticides and fungicides                               | 11,892.1  | 14,034.0  | 11,255.8  | 16,538.1  | 13,625.8             |
| Miscellaneous chemical products, n.e.s.                   | 15,873.2  | 16,071.2  | 15,024.4  | 17,770.3  | 18,315.3             |
| Rubber tyres and inner tubes, for wheels of all kinds     | 14,027.7  | 16,273.1  | 16,118.1  | 15,585.4  | 18,650.3             |
| Paper and Paperboard                                      | 33,009.8  | 41,852.7  | 34,707.6  | 29,063.7  | 38,963.9             |
| Textile yarn  | 3,881.6   | 4,939.6   | 4,660.2   | 3,706.4   | 5,539.1              |
| Cement Clinkers   | 6,544.6   | 9,576.3   | 8,378.1   | 8,646.4   | 6,675.6              |

**Table 6.8: Values of Principal Imports<sup>1</sup>, 2017-2021 (Continued)**

| Commodity   | 2017               | 2018               | 2019               | 2020               | KSh Million<br>2021* |
|---|--------------------|--------------------|--------------------|--------------------|----------------------|
| Iron and Steel  | 83,579.8           | 97,686.4           | 104,111.9          | 105,100.6          | 155,539.2            |
| Non-ferrous metals  | 16,902.2           | 16,424.7           | 14,014.6           | 16,010.4           | 18,730.5             |
| Structures and parts of structures, n.e.s., of iron, steel or aluminium | 13,436.6           | 11,221.7           | 9,398.9            | 10,094.6           | 18,322.4             |
| Hand & machine tools  | 2,626.2            | 2,749.4            | 2,930.9            | 3,257.3            | 3,503.9              |
| Manufactures of base metal, n.e.s.                                      | 9,258.3            | 10,975.9           | 9,351.3            | 9,622.4            | 11,335.9             |
| Industrial Machinery  | 238,366.3          | 252,461.4          | 257,635.1          | 231,854.3          | 254,821.8            |
| Agricultural Machinery and Tractors                                     | 8,477.6            | 9,298.0            | 7,006.0            | 9,188.0            | 11,349.4             |
| Automatic data processing machines and units thereof                    | 25,233.2           | 11,725.2           | 17,955.5           | 14,012.3           | 14,083.9             |
| Telecommunications equipment, n.e.s., and parts, n.e.s.                 | 32,014.7           | 25,512.0           | 26,055.3           | 25,911.8           | 22,924.2             |
| Parts, n.e.s. and accessories of the motor vehicles                     | 9,016.6            | 10,103.4           | 11,129.6           | 11,998.5           | 14,114.0             |
| Motorcycles and cycles fitted with an auxilliary motor                  | 11,432.1           | 11,316.0           | 13,273.1           | 13,630.8           | 20,767.2             |
| Bicycles, assembled or partly assembled                                 | 434.0              | 505.3              | 600.0              | 662.3              | 882.0                |
| Road Motor Vehicles   | 85,219.9           | 92,585.9           | 92,140.5           | 81,181.4           | 99,462.8             |
| Aircraft and associated equipment                                       | 11,311.6           | 16,159.5           | 22,146.0           | 9,094.4            | 17,894.7             |
| Prefabricated buldings  | 4,112.3            | 5,181.7            | 2,704.7            | 3,447.0            | 4,017.3              |
| Furniture and parts thereof   | 7,965.3            | 8,802.7            | 8,402.8            | 7,218.6            | 8,813.5              |
| Quality control instruments and apparatus, n.e.s.                       | 12,692.1           | 12,952.0           | 11,393.4           | 8,788.3            | 10,201.6             |
| Printed matter  | 8,876.7            | 7,544.8            | 8,185.2            | 4,949.7            | 7,565.8              |
| Articles, n.e.s., of plastics   | 8,248.1            | 8,880.0            | 8,575.4            | 7,997.4            | 9,344.5              |
| <b>TOTAL</b>  | <b>1,398,227.9</b> | <b>1,444,215.0</b> | <b>1,480,442.1</b> | <b>1,360,614.4</b> | <b>1,773,693.8</b>   |
| All other Commodities   | 338,244.2          | 320,256.5          | 325,892.5          | 282,945.6          | 377,539.3            |
| <b>GRAND TOTAL</b>  | <b>1,736,472.1</b> | <b>1,764,471.5</b> | <b>1,806,334.6</b> | <b>1,643,560.1</b> | <b>2,151,233.1</b>   |

Source: Kenya National Bureau of Statistics/ Kenya Revenue Authority

\* Provisional

<sup>1</sup>Includes data on Small Scale Cross Border Trade and Electricity

## Unit Prices of Principal Domestic Exports

**6.19.** Table 6.9 highlights the unit prices of principal domestic exports for the period 2017 to 2021. Over the review period, export prices of metal scrap; and iron and steel rose by 35.5 per cent and 38.4 per cent to exchange at KSh 335,075.4 per tonne and KSh 136,338.8 per tonne, respectively. Similarly, export prices of one tonne of manufactures of base metals

rose from KSh 214,712.9 in 2020 to KSh 267,324.6 in 2021, representing 24.5 per cent increase.

**6.20.** One tonne of exported maize fetched KSh 125,366.5 in 2021 from KSh 172,836.7 in 2020. The export prices of wood manufactures declined by 35.3 per cent in 2021 to KSh 208,436.9 per tonne.

**Table 6.9: Unit Prices of Principal Domestic Exports, 2017-2021**

| Commodity  | Unit  | 2017      | 2018      | 2019      | 2020      | KSh/Unit<br>2021* |
|--|-------|-----------|-----------|-----------|-----------|-------------------|
| Fish and fish preparations                         | Kg    | 399.3     | 410.3     | 385.9     | 325.4     | 315.5             |
| Maize (unmilled,excluding sweet corn) <sup>1</sup> | Tonne | 141,418.5 | 192,206.8 | 162,571.2 | 172,836.7 | 125,366.5         |
| Meals and flours of wheat                          | Tonne | 43,716.5  | 38,981.5  | 46,418.9  | 54,849.9  | 58,015.0          |
| Horticulture                                       | Kg    | 247.9     | 249.8     | 262.9     | 229.6     | 242.8             |
| Sugar confectionery                                | Kg    | 163.3     | 167.2     | 140.4     | 114.6     | 106.4             |
| Coffee, unroasted                                  | Kg    | 539.5     | 516.9     | 416.7     | 512.4     | 697.0             |
| Tea  | Kg    | 315.3     | 276.7     | 238.8     | 226.3     | 234.9             |
| Margarine and shortening                           | Kg    | 130.8     | 138.6     | 167.9     | 182.3     | 212.6             |
| Edible products and preparations, n.e.s.           | Kg    | 235.1     | 214.5     | 209.9     | 211.6     | 224.5             |
| Beer made from malt                                | Lt.   | 88.2      | 77.8      | 78.0      | 84.7      | 89.0              |
| Tobacco and tobacco manufactures                   | Kg    | 640.7     | 642.4     | 641.7     | 678.3     | 683.2             |
| Hides and Skins(undressed)                         | Kg    | 46.2      | 54.1      | 91.5      | 51.9      | 49.3              |
| Sisal  | Tonne | 163,996.2 | 163,578.0 | 165,138.0 | 161,350.2 | 171,822.8         |
| Stone, sand and gravel                             | Tonne | 6,264.8   | 5,361.9   | 4,820.4   | 5,215.2   | 5,743.1           |
| Fluorspar  | Tonne | 17,794.7  | ..        | ..        | ..        | ..                |
| Salt   | Tonne | 12,606.2  | 13,280.5  | 14,529.7  | 18,163.9  | 15,811.7          |
| Soda Ash   | Tonne | 20,694.4  | 22,642.4  | 23,999.5  | 22,778.8  | 21,416.1          |
| Titanium ores and concentrates                     | Tonne | 25,840.5  | 27,249.4  | 32,555.6  | 41,746.5  | 47,445.2          |
| Metal scrap  | Tonne | 263,139.1 | 277,455.0 | 266,260.5 | 247,336.7 | 335,075.4         |
| Animal and vegetable oils                          | Kg    | 120.8     | 94.5      | 75.8      | 104.0     | 157.8             |
| Alcohols and derivatives thereof                   | Lt.   | 83.2      | 116.3     | 97.0      | 111.3     | 151.3             |
| Pigments, paints, varnishes and related materials  | Kg    | 151.5     | 175.0     | 162.6     | 150.2     | 164.1             |
| Medicinal and pharmaceutical products              | Kg    | 789.2     | 798.2     | 821.1     | 827.0     | 936.9             |
| Essential oils                                     | Kg    | 114.7     | 116.2     | 107.2     | 110.4     | 126.9             |
| Plates, sheets, film, foil and strip, of plastics  | Kg    | 315.1     | 355.6     | 384.8     | 355.0     | 390.8             |
| Insecticides and fungicides                        | Kg    | 699.0     | 689.6     | 703.6     | 720.0     | 569.4             |
| Leather  | Kg    | 209.6     | 191.0     | 186.9     | 241.9     | 220.5             |
| Wood manufactures n.e.s.                           | Tonne | 513,422.3 | 533,695.6 | 357,019.3 | 322,007.6 | 208,436.9         |
| Paper and paperboard                               | Tonne | 148,155.3 | 166,172.4 | 174,546.6 | 187,942.0 | 170,671.8         |

**Table 6.9: Unit Prices of Principal Domestic Exports, 2017-2021 (Continued)**

| Commodity  | Unit  | 2017      | 2018      | 2019      | 2020      | KSh/Unit<br>2021* |
|--|-------|-----------|-----------|-----------|-----------|-------------------|
| Textile yarn   | Kg    | 447.1     | 444.2     | 435.9     | 513.8     | 532.5             |
| Made-up articles, wholly or chiefly of textile materials, n.e.s. | Kg    | 268.0     | 270.8     | 264.6     | 281.8     | 271.7             |
| Glassware  | Kg    | 65.1      | 63.7      | 64.5      | 67.3      | 67.6              |
| Cement   | Tonne | 9,043.5   | 10,276.1  | 11,012.3  | 9,566.1   | 9,600.8           |
| Iron and steel   | Tonne | 107,772.1 | 111,738.8 | 105,123.7 | 98,568.1  | 136,383.8         |
| Metal containers   | Tonne | 208,254.2 | 203,475.9 | 214,415.3 | 195,106.5 | 197,770.5         |
| Wire products: nails screws, nuts, etc                           | Tonne | 149,362.0 | 108,817.1 | 128,561.0 | 118,359.0 | 113,300.5         |
| Household equipment of base metal, n.e.s.                        | Tonne | 306,417.4 | 244,390.9 | 289,670.4 | 346,131.1 | 318,899.6         |
| Manufactures of base metal, n.e.s.                               | Tonne | 223,197.1 | 233,052.5 | 235,319.3 | 214,712.9 | 267,324.6         |
| Automatic data processing machines and units thereof             | No's  | 5,065.7   | 28,469.8  | 12,832.6  | 24,388.3  | 43,610.1          |
| Footwear   | Pair  | 93.7      | 97.9      | 97.4      | 118.5     | 126.4             |
| Printed matter   | Kg    | 1,157.5   | 1,215.5   | 713.3     | 1,078.5   | 760.2             |

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority

\* Provisional.

<sup>1</sup>Mainly seeds

.. Not available

### Unit Prices of Principal Imports

**6.21.** The unit prices of majority of imported commodities exhibited increases as presented in Table 6.10. The unit price of imported road motor vehicles rose by 11.6 per cent in 2021 from an average of KSh 858,435.9 in 2020. The average cost of rubber tyres and tubes rose by 15.9 per cent over the same period. The cost of one tonne of imported non-ferrous metal increased from KSh 330,314.7 in 2020 to KSh 424,628.7, translating to a 28.6 per cent increase. Other commodities whose unit import prices

registered an increase included chemical fertilizers (56.1%), iron and steel (50.3%), petroleum products (49.5%); and animal and vegetable oils (67.5%).

**6.22.** The import price of automatic data processing machine averaged KSh 11,348.7 in 2021 compared to 2020 where it averaged KSh 14,933.1. The import price of one tonne of prefabricated buildings slightly declined from an average of KSh 374,460.3 in 2020 to KSh 373,608.1 in 2021.

**Table 6.10: Unit Prices of Principal Imports, 2017-2021**

| Commodity  | Unit  | 2017        | 2018      | 2019      | 2020      | KSh/Unit<br>2021* |
|--|-------|-------------|-----------|-----------|-----------|-------------------|
| Wheat, unmilled  | Tonne | 22,857.8    | 24,701.3  | 25,688.0  | 25,994.8  | 33,019.0          |
| Rice   | Tonne | 42,841.2    | 42,696.2  | 41,180.7  | 43,520.2  | 49,370.4          |
| Maize, unmilled  | Tonne | 30,320.7    | 22,676.3  | 27,525.0  | 27,279.6  | 28,260.1          |
| Wheat flour  | Tonne | 44,312.8    | 36,348.7  | 44,400.6  | 43,230.2  | 58,014.3          |
| Sugars, molasses and honey                                     | Tonne | 54,956.6    | 55,012.7  | 53,027.7  | 55,843.5  | 61,554.5          |
| Edible products and preparations, n.e.s.                       | Tonne | 113,760.3   | 118,828.2 | 127,121.1 | 182,235.9 | 189,236.5         |
| Textile fibres and their waste                                 | Tonne | 267,671.1   | 271,251.3 | 270,477.4 | 245,075.9 | 272,660.0         |
| Second - hand clothing   | Tonne | 96,132.1    | 95,581.2  | 96,286.5  | 100,526.7 | 103,161.7         |
| Petroleum products   | Lt.   | 42.4        | 53.9      | 49.3      | 36.5      | 54.5              |
| Residual petroleum products, n.e.s. and related materials      | Kg    | 54.9        | 41.7      | 52.7      | 45.2      | 58.9              |
| Liquefied propane and butane                                   | Kg    | 59.2        | 62.7      | 52.7      | 47.9      | 69.5              |
| Animal and vegetable oils                                      | Kg    | 80.6        | 68.5      | 59.5      | 77.9      | 130.4             |
| Organic & inorganic chemicals                                  | Kg    | 93.2        | 96.2      | 77.4      | 77.6      | 101.9             |
| Pigments, paints, varnishes and related materials              | Kg    | 177.0       | 166.6     | 193.2     | 181.1     | 201.5             |
| Medicinal & pharmaceuticals products                           | Kg    | 2,243.7     | 2,001.7   | 2,031.0   | 1,927.4   | 2,930.3           |
| Essential oils & perfumes                                      | Kg    | 340.7       | 356.1     | 334.5     | 288.8     | 306.9             |
| Chemical fertilizers   | Tonne | 34,179.8    | 37,167.0  | 35,133.3  | 32,788.8  | 51,168.1          |
| Plastics in primary & non-primary forms                        | Tonne | 135,104.0   | 146,007.8 | 132,611.5 | 121,590.0 | 170,484.6         |
| Insecticides and fungicides                                    | Tonne | 661,189.6   | 689,964.2 | 721,247.3 | 640,773.3 | 711,190.6         |
| Miscellaneous chemical products, n.e.s.                        | Tonne | 316,984.0   | 325,788.2 | 304,207.9 | 329,002.5 | 328,171.4         |
| Rubber tyres and inner tubes, for wheels of all kinds          | No.   | 1,726.8     | 1,553.3   | 1,583.0   | 1,418.8   | 1,644.8           |
| Paper and paperboard   | Tonne | 90,346.0    | 104,596.0 | 96,638.1  | 91,440.7  | 107,422.2         |
| Cement clinkers  | Tonne | 4,349.6     | 4,748.6   | 4,618.8   | 4,305.0   | 6,264.0           |
| Iron and steel   | Tonne | 60,798.0    | 74,352.8  | 65,304.9  | 60,472.7  | 90,890.7          |
| Non-ferrous metals   | Tonne | 367,154.0   | 354,577.9 | 348,396.7 | 330,314.7 | 424,628.7         |
| Structures and parts of structures of iron, steel or aluminium | Tonne | 192,442.3   | 189,034.3 | 204,678.8 | 210,425.1 | 292,850.7         |
| Hand & machine tools   | Kg    | 277.3       | 230.4     | 230.2     | 225.6     | 278.3             |
| Manufactures of base metal, n.e.s.                             | Tonne | 201,822.6   | 242,147.7 | 218,844.5 | 213,528.0 | 262,978.4         |
| Automatic data processing machines and units thereof           | No.   | 20,263.0    | 23,523.7  | 16,484.5  | 14,933.1  | 11,348.7          |
| Motorcycles and cycles fitted with an auxiliary motor          | No.   | 57,241.5    | 55,420.4  | 57,352.2  | 58,517.2  | 60,687.9          |
| Bicycles, assembled or partly assembled                        | No.   | 2,869.7     | 3,164.6   | 3,016.1   | 3,141.2   | 3,435.8           |
| Road motor vehicles  | No.   | 902,141.2   | 908,025.1 | 838,151.5 | 858,435.9 | 957,671.9         |
| Prefabricated buildings  | Tonne | 213,479.7   | 284,934.8 | 287,624.1 | 374,460.3 | 373,608.1         |
| Printed matter   | Tonne | 1,000,031.7 | 533,179.7 | 591,604.8 | 785,850.4 | 860,856.6         |
| Articles, n.e.s., of plastics                                  | Tonne | 194,780.0   | 211,211.3 | 222,501.3 | 212,867.6 | 259,378.8         |

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority

\* Provisional.

### Composition of Exports

**6.23.** As shown in Table 6.11, domestic exports rose by 17.5 per cent to KSh 666.7 billion in 2021 from KSh 567.4 billion in 2020. Food and beverages category accounted for the largest proportion of all domestic exports at 43.1 per cent, followed by consumer goods at 27.6 per cent. Domestic exports of non-food industrial supplies increased from KSh 134.9 billion in 2020 to KSh 170.0 billion in 2021, occasioned by a significant increase in processed non-food industrial supplies. On the other hand, an

increase in domestic exports of non-durable consumer goods, which accounted for 74.6 per cent of the total value of domestic exports of consumer goods, resulted to the 23.8 per cent increase in domestic exports within this category from KSh 148.7 billion in 2020 to KSh 184.1 billion, in 2021. In the category of fuel and lubricants, domestic exports of processed motor spirit more than halved from KSh 12.5 million in 2020 to KSh 6.2 million in the year under review.

**Table 6.11: Value of Domestic Exports<sup>1</sup> by Broad Economic Category, 2017-2021**

|  | 2017             | 2018             | 2019             | 2020             | KSh Million<br>2021* |
|--|------------------|------------------|------------------|------------------|----------------------|
| <b>FOOD AND BEVERAGES</b>                      | <b>256,256.8</b> | <b>258,728.0</b> | <b>230,315.0</b> | <b>263,273.7</b> | <b>287,088.5</b>     |
| Primary  | 212,307.2        | 212,923.7        | 180,015.7        | 207,727.1        | 227,942.7            |
| For Industry                                   | 26,920.6         | 25,380.9         | 22,720.5         | 25,643.5         | 30,079.6             |
| For Household Consumption                      | 185,386.5        | 187,542.8        | 157,295.2        | 182,083.6        | 197,863.1            |
| Processed                                      | 43,949.7         | 45,804.4         | 50,299.2         | 55,546.6         | 59,145.8             |
| For Industry                                   | 3,335.6          | 3,939.6          | 4,079.2          | 4,756.0          | 5,795.4              |
| For Household Consumption                      | 40,614.1         | 41,864.8         | 46,220.0         | 50,790.6         | 53,350.5             |
| <b>INDUSTRIAL SUPPLIES (Non-Food)</b>          | <b>126,525.7</b> | <b>127,684.5</b> | <b>124,660.4</b> | <b>134,917.0</b> | <b>170,000.7</b>     |
| Primary  | 48,683.9         | 49,201.5         | 46,260.8         | 50,849.0         | 62,263.4             |
| Processed                                      | 77,841.9         | 78,483.0         | 78,399.6         | 84,067.9         | 107,737.3            |
| <b>FUEL AND LUBRICANTS</b>                     | <b>5,527.2</b>   | <b>5,379.5</b>   | <b>6,175.8</b>   | <b>5,943.8</b>   | <b>6,036.2</b>       |
| Primary  | 48.1             | 48.5             | 1,691.5          | 25.4             | 32.2                 |
| Processed                                      | 5,479.1          | 5,331.0          | 4,484.3          | 5,918.5          | 6,004.0              |
| Motor Spirit                                   | 63.5             | 62.7             | 149.3            | 12.5             | 6.2                  |
| Other  | 5,415.6          | 5,268.3          | 4,335.0          | 5,905.9          | 5,997.9              |
| <b>MACHINERY &amp; OTHER CAPITAL EQUIPMENT</b> | <b>7,172.2</b>   | <b>6,810.3</b>   | <b>10,073.8</b>  | <b>9,529.2</b>   | <b>11,844.1</b>      |
| Machinery & Other Capital Equipment            | 5,939.1          | 5,407.4          | 7,981.1          | 7,819.0          | 10,133.6             |
| Parts and Accessories                          | 1,233.1          | 1,402.9          | 2,092.6          | 1,710.2          | 1,710.5              |
| <b>TRANSPORT EQUIPMENT</b>                     | <b>4,479.6</b>   | <b>6,089.4</b>   | <b>6,365.7</b>   | <b>4,975.1</b>   | <b>7,073.5</b>       |
| Passenger Motor Vehicles                       | 260.0            | 224.7            | 381.2            | 164.6            | 360.2                |
| Other  | 2,113.7          | 3,472.6          | 3,429.7          | 4,810.5          | 6,713.3              |
| For Industry                                   | 2,012.5          | 3,352.5          | 3,188.7          | 1,772.0          | 2,264.9              |
| Non-Industrial                                 | 101.3            | 120.1            | 241.0            | 284.2            | 412.2                |
| Parts and Accessories                          | 2,105.9          | 2,392.2          | 2,554.7          | 2,754.3          | 4,036.2              |
| <b>CONSUMER GOODS NOT ELSEWHERE SPECIFIED</b>  | <b>134,415.6</b> | <b>138,145.3</b> | <b>143,173.4</b> | <b>148,714.1</b> | <b>184,117.0</b>     |
| Durable  | 1,510.2          | 1,354.9          | 1,666.7          | 1,548.3          | 2,034.7              |
| Semi-Durable                                   | 35,739.7         | 35,353.7         | 36,861.9         | 36,967.9         | 44,787.4             |
| Non-Durable                                    | 97,165.6         | 101,436.7        | 104,644.8        | 110,197.9        | 137,294.9            |
| <b>GOODS NOT ELSEWHERE SPECIFIED</b>           | <b>15.6</b>      | <b>19.5</b>      | <b>23.3</b>      | <b>17.6</b>      | <b>578.6</b>         |
| <b>TOTAL</b>                                   | <b>534,392.8</b> | <b>542,856.5</b> | <b>520,787.4</b> | <b>567,370.4</b> | <b>666,738.7</b>     |
| <b>SHARES:</b>                                 |                  |                  |                  |                  |                      |
| Food and Beverages                             | 47.95            | 47.66            | 44.22            | 46.40            | 43.06                |
| Industrial Supplies (Non-Food)                 | 23.68            | 23.52            | 23.94            | 23.78            | 25.50                |
| Fuel and Lubricants                            | 1.03             | 0.99             | 1.19             | 1.05             | 0.91                 |
| Machinery and other Capital Equipment          | 1.34             | 1.25             | 1.93             | 1.68             | 1.78                 |
| Transport Equipment                            | 0.84             | 1.12             | 1.22             | 0.88             | 1.06                 |
| Consumer Goods not elsewhere specified         | 25.15            | 25.45            | 27.49            | 26.21            | 27.61                |
| Goods not elsewhere specified                  | 0.00             | 0.00             | 0.00             | 0.00             | 0.09                 |
| <b>TOTAL</b>                                   | <b>100.00</b>    | <b>100.00</b>    | <b>100.00</b>    | <b>100.00</b>    | <b>100.00</b>        |

Source: Kenya National Bureau of Statistics/ Kenya Revenue Authority

\* Provisional

<sup>1</sup>Includes data on Small Scale Cross Border Trade and Electricity

## Composition of Imports

**6.24.** The value of imports by Broad Economic Category (BEC) for the period 2017 to 2021 is presented in Table 6.12. In the review period, total imports were valued at KSh 2,151.2 billion compared to KSh 1,643.6 billion in 2020. This was largely on account of significant increases in imports of processed fuel and lubricants and processed non-food industrial

supplies, which went up by 67.1 per cent and 30.1 per cent, respectively. Notably, the increase in fuel and lubricants was largely attributable to increased demand and consumption of petroleum products following the easing of restrictions that had been imposed to curb the spread of COVID-19.

**Table 6.12: Value of Total Imports<sup>1</sup> by Broad Economic Category, 2017-2021**

|   | 2017               | 2018               | 2019               | 2020               | KSh Million<br>2021* |
|---|--------------------|--------------------|--------------------|--------------------|----------------------|
| <b>FOOD AND BEVERAGES</b>                     | <b>250,067.0</b>   | <b>176,149.5</b>   | <b>186,763.6</b>   | <b>176,314.5</b>   | <b>212,792.0</b>     |
| Primary                                       | 117,580.6          | 88,962.3           | 87,431.4           | 80,460.9           | 105,556.6            |
| For Industry                                  | 92,555.1           | 63,494.5           | 67,078.9           | 64,378.7           | 89,388.9             |
| For Household Consumption                     | 25,025.5           | 25,467.8           | 20,352.4           | 16,082.2           | 16,167.7             |
| Processed                                     | 132,486.5          | 87,187.2           | 99,332.2           | 95,853.6           | 107,235.4            |
| For Industry                                  | 57,566.4           | 19,260.3           | 28,253.1           | 22,375.9           | 16,484.7             |
| For Household Consumption                     | 74,920.1           | 67,926.9           | 71,079.1           | 73,477.7           | 90,750.7             |
| <b>INDUSTRIAL SUPPLIES (Non-Food)</b>         | <b>551,420.7</b>   | <b>610,090.4</b>   | <b>604,125.1</b>   | <b>638,952.3</b>   | <b>830,186.3</b>     |
| Primary                                       | 29,245.2           | 34,146.9           | 36,937.2           | 28,370.1           | 35,999.8             |
| Processed                                     | 522,175.5          | 575,943.5          | 567,187.8          | 610,582.2          | 794,186.5            |
| <b>FUEL AND LUBRICANTS</b>                    | <b>282,687.8</b>   | <b>338,671.3</b>   | <b>334,184.1</b>   | <b>224,582.3</b>   | <b>376,110.1</b>     |
| Primary                                       | 4,784.8            | 7,482.5            | 5,112.8            | 6,192.4            | 11,135.3             |
| Processed                                     | 277,902.9          | 331,188.8          | 329,071.3          | 218,389.9          | 364,974.8            |
| Motor Spirit                                  | 70,873.9           | 86,977.6           | 92,003.2           | 70,082.6           | 121,336.7            |
| Other   | 207,029.0          | 244,211.2          | 237,068.1          | 148,307.3          | 243,638.1            |
| <b>MACHINERY AND OTHER CAPITAL EQUIPMENT</b>  | <b>310,776.6</b>   | <b>290,556.0</b>   | <b>324,531.8</b>   | <b>278,805.9</b>   | <b>335,904.1</b>     |
| Machinery and Other Capital Equipment         | 260,185.6          | 237,848.5          | 262,767.6          | 222,521.9          | 282,967.5            |
| Parts and Accessories                         | 50,591.0           | 52,707.5           | 61,764.2           | 56,284.0           | 52,936.6             |
| <b>TRANSPORT EQUIPMENT</b>                    | <b>197,405.9</b>   | <b>189,104.3</b>   | <b>190,545.2</b>   | <b>163,588.9</b>   | <b>200,225.1</b>     |
| Passenger Motor Vehicles                      | 53,895.0           | 58,200.3           | 60,287.0           | 49,180.3           | 55,452.7             |
| Other   | 103,199.0          | 90,282.5           | 80,751.9           | 114,408.6          | 144,772.4            |
| Industrial                                    | 90,421.7           | 77,632.5           | 65,602.5           | 57,141.3           | 70,298.0             |
| Non-Industrial                                | 12,777.2           | 12,650.0           | 15,149.4           | 15,164.8           | 22,445.7             |
| Parts and Accessories                         | 40,311.9           | 40,621.5           | 49,506.3           | 42,102.4           | 52,028.7             |
| <b>CONSUMER GOODS NOT ELSEWHERE SPECIFIED</b> | <b>138,920.2</b>   | <b>148,661.7</b>   | <b>156,442.9</b>   | <b>157,065.1</b>   | <b>191,791.5</b>     |
| Durable                                       | 25,802.0           | 31,010.1           | 30,979.7           | 31,132.7           | 34,669.1             |
| Semi-Durable                                  | 39,638.4           | 41,413.6           | 42,698.0           | 44,166.4           | 57,966.3             |
| Non-Durable                                   | 73,479.8           | 76,238.0           | 82,765.2           | 81,766.0           | 99,156.1             |
| <b>GOODS NOT ELSEWHERE SPECIFIED</b>          | <b>5,194.1</b>     | <b>11,238.3</b>    | <b>9,742.0</b>     | <b>4,251.1</b>     | <b>4,224.0</b>       |
| <b>TOTAL SHARES:</b>                          | <b>1,736,472.1</b> | <b>1,764,471.5</b> | <b>1,806,334.6</b> | <b>1,643,560.1</b> | <b>2,151,233.1</b>   |

**Table 6.12: Value of Total Imports<sup>1</sup> by Broad Economic Category, 2017-2021 (Continued)**

|  | <i>KSh Million</i> |               |               |               |               |
|--|--------------------|---------------|---------------|---------------|---------------|
|  | <b>2017</b>        | <b>2018</b>   | <b>2019</b>   | <b>2020</b>   | <b>2021*</b>  |
| Food and Beverages                     | 14.40              | 9.98          | 10.34         | 10.73         | 9.89          |
| Industrial Supplies (Non-Food)         | 31.76              | 34.58         | 33.44         | 38.88         | 38.59         |
| Fuel and Lubricants                    | 16.28              | 19.19         | 18.50         | 13.66         | 17.48         |
| Machinery and other Capital Equipment  | 17.90              | 16.47         | 17.97         | 16.96         | 15.61         |
| Transport Equipment                    | 11.37              | 10.72         | 10.55         | 9.95          | 9.31          |
| Consumer Goods not elsewhere specified | 8.00               | 8.43          | 8.66          | 9.56          | 8.92          |
| Goods not elsewhere specified          | 0.30               | 0.64          | 0.54          | 0.26          | 0.20          |
| <b>TOTAL</b>                           | <b>100.00</b>      | <b>100.00</b> | <b>100.00</b> | <b>100.00</b> | <b>100.00</b> |

Source: Kenya National Bureau of Statistics/ Kenya Revenue Authority

\* Provisional

<sup>1</sup>Includes data on Small Scale Cross Border Trade and Electricity

### Direction of Trade

**6.25.** The values of total exports by destination for the period 2017 to 2021 are presented in Table 6.13. During the review period, total exports to Africa amounted to KSh 309.3 billion increasing from KSh 246.1 billion in 2020 and accounted for the bulk of the country's exports. This development was majorly boosted by increase in exports to the East African economic bloc which rose from KSh 158.3 billion to KSh 192.4 billion, contributing 54.0 per cent of all exports to the African continent.

**6.26.** The value of exports to Uganda, increased from KSh 72.2 billion in 2020 to KSh 91.7 billion in 2021, largely driven by increase in domestic exports of cement clinkers, palm oil, flat rolled products of iron and non-alloy steel and; re-exports of machine tools for drilling, boring, sinking, milling, threading or tapping. As a result, Uganda continued to be the country's key export destination accounting for 12.3 per cent of total export earnings. Similarly, exports to Tanzania and the Democratic Republic of Congo exhibited significant rise from KSh 31.8 billion and KSh 14.3 billion in 2020 to KSh 45.6 billion and KSh 24.4 billion, respectively. The rise was occasioned by increase in domestic exports of tea, cut flowers and coffee to the Democratic Republic of Congo and soap to Tanzania. Conversely, in the same period, exports to South Sudan declined by 26.0 per cent to

KSh 17.1 billion, resulting from reduction in domestic exports of food supplements, and re-exports of dried leguminous vegetables to this destination.

**6.27.** In the period under review, total exports to Asia improved by 8.9 per cent, growing from KSh 157.6 billion in 2020, largely boosted by increased exports to China and India. Total exports to China were valued at KSh 21.9 billion in 2021 compared to KSh 14.8 billion in 2020, representing a 48.1 per cent increase. This was majorly attributable to an increase in domestic exports of titanium ores and concentrate to this destination. Total exports to India rose from KSh 7.8 billion in 2020 to KSh 10.4 billion in 2021, occasioned by an increase in domestic exports of dried leguminous vegetables. Despite the increase in exports to Asia, exports to Pakistan and Afghanistan dropped by 2.7 per cent and 73.7 per cent, respectively, slowing down the growth of exports to this region, over the review period. This was mainly attributable to a decline in domestic exports of tea to the two countries.

**6.28.** Total exports to the European Union (EU) rose significantly from KSh 99.3 billion to KSh 115.9 billion, translating to a 16.7 per cent increase. Notably, increase in domestic exports of cut flowers; avocados; plants and parts of plants used for pharmaceutical

purposes, and re-exports of kerosene type jet fuel to the Netherlands drove the rise in exports to the EU economic bloc. On Eastern Europe, exports to the Russian Federation increased from KSh 8.0 billion in 2020 to KSh 10.5 billion in 2021, resulting from increased domestic exports of cut flowers.

**6.29.** During the period under review, the value of exports to America registered an increase of 21.7

per cent from KSh 52.3 billion in 2020 to KSh 63.6 billion. This was largely driven by the increase in the value of domestic exports of macadamia nuts; and articles of apparel and clothing accessories to the United States of America. Exports to this destination rose from KSh 49.4 billion in 2020 to KSh 59.6 billion in 2021.

**Table 6.13: Value of Total Exports<sup>1</sup> by Destination, 2017-2021**

|                             | 2017             | 2018             | 2019             | 2020             | KSh Million<br>2021* |
|-----------------------------|------------------|------------------|------------------|------------------|----------------------|
| <b>EUROPE</b>               |                  |                  |                  |                  |                      |
| <b>WESTERN EUROPE:</b>      |                  |                  |                  |                  |                      |
| <b>European Union</b>       |                  |                  |                  |                  |                      |
| Belgium                     | 6,025.5          | 6,344.5          | 7,368.5          | 6,855.7          | 7,922.5              |
| Finland                     | 1,029.8          | 736.9            | 811.3            | 984.4            | 1,093.6              |
| France                      | 7,773.3          | 7,924.8          | 7,864.4          | 9,150.6          | 9,722.3              |
| Germany                     | 11,740.9         | 11,160.4         | 11,306.2         | 14,533.4         | 14,268.1             |
| Italy                       | 3,408.7          | 3,968.0          | 3,479.6          | 3,589.4          | 3,260.1              |
| Netherlands                 | 43,891.8         | 46,365.2         | 48,004.8         | 48,737.6         | 61,666.0             |
| Spain                       | 2,963.0          | 4,443.5          | 4,436.5          | 5,372.5          | 6,262.9              |
| Sweden                      | 2,863.0          | 2,829.3          | 1,975.3          | 2,252.6          | 2,820.1              |
| United Kingdom <sup>2</sup> | 38,552.7         | 40,192.1         | 40,082.3         |                  |                      |
| Poland                      | 2,213.9          | 2,220.4          | 2,652.5          | 2,375.2          | 2,402.2              |
| Other                       | 5,152.8          | 5,016.7          | 5,413.5          | 5,435.0          | 6,392.7              |
| <b>TOTAL EU</b>             | <b>125,615.3</b> | <b>131,201.7</b> | <b>133,394.9</b> | <b>99,286.4</b>  | <b>115,810.6</b>     |
| United Kingdom <sup>2</sup> |                  |                  |                  | 49,920.9         | 49,400.3             |
| Other Western Europe        | 8,945.7          | 9,146.4          | 7,027.2          | 9,224.4          | 10,297.1             |
| <b>Total Western Europe</b> | <b>134,561.0</b> | <b>140,348.1</b> | <b>140,422.1</b> | <b>158,431.7</b> | <b>175,508.0</b>     |
| <b>EASTERN EUROPE:</b>      |                  |                  |                  |                  |                      |
| Russian Federation          | 7,996.8          | 8,572.7          | 6,348.3          | 8,008.5          | 10,465.5             |
| Kazakhstan                  | 3,432.6          | 2,949.2          | 3,226.9          | 3,783.2          | 3,796.0              |
| Other                       | 995.3            | 863.3            | 1,313.1          | 1,295.3          | 1,729.0              |
| <b>Total Eastern Europe</b> | <b>12,424.8</b>  | <b>12,385.3</b>  | <b>10,888.3</b>  | <b>13,087.0</b>  | <b>15,990.6</b>      |
| <b>TOTAL EUROPE</b>         | <b>146,985.7</b> | <b>152,733.3</b> | <b>151,310.5</b> | <b>171,518.7</b> | <b>191,498.5</b>     |
| <b>AMERICA</b>              |                  |                  |                  |                  |                      |
| U.S.A                       | 47,269.9         | 47,341.0         | 51,921.6         | 49,378.0         | 59,562.4             |
| Canada                      | 3,633.9          | 3,140.1          | 2,926.4          | 1,244.4          | 2,194.8              |
| Other                       | 3,860.8          | 5,392.4          | 1,227.6          | 1,677.6          | 1,866.7              |
| <b>TOTAL AMERICA</b>        | <b>54,764.6</b>  | <b>55,873.5</b>  | <b>56,075.6</b>  | <b>52,300.0</b>  | <b>63,623.9</b>      |
| <b>EAC</b>                  |                  |                  |                  |                  |                      |
| Uganda                      | 63,421.5         | 62,628.8         | 64,106.1         | 72,219.6         | 91,653.3             |
| Tanzania                    | 29,265.2         | 29,972.2         | 33,864.9         | 31,833.0         | 45,560.3             |
| Rwanda                      | 17,124.0         | 17,842.2         | 23,174.9         | 25,211.3         | 30,519.7             |
| South Sudan                 | 16,844.2         | 12,967.7         | 12,574.7         | 23,194.7         | 17,154.1             |
| Burundi                     | 7,382.0          | 6,592.6          | 6,725.9          | 5,878.8          | 7,530.9              |
| <b>Total EAC</b>            | <b>134,037.0</b> | <b>130,003.5</b> | <b>140,446.4</b> | <b>158,337.3</b> | <b>192,418.4</b>     |

**Table 6.13: Value of Total Exports<sup>1</sup> by Destination, 2017-2021 (Continued)**

|                                       | <b>KSh Million</b> |                  |                  |                  |                  |
|---------------------------------------|--------------------|------------------|------------------|------------------|------------------|
|                                       | <b>2017</b>        | <b>2018</b>      | <b>2019</b>      | <b>2020</b>      | <b>2021*</b>     |
| <b>REST OF AFRICA</b>                 |                    |                  |                  |                  |                  |
| South Africa                          | 2,758.6            | 4,387.0          | 3,312.2          | 3,480.9          | 3,956.5          |
| Egypt                                 | 19,005.2           | 20,125.1         | 18,927.4         | 18,983.0         | 21,175.5         |
| Somalia                               | 19,745.1           | 15,145.3         | 11,841.8         | 11,394.4         | 13,451.5         |
| Ethiopia                              | 8,230.4            | 6,677.7          | 7,104.4          | 9,403.7          | 13,890.6         |
| Sudan                                 | 6,906.5            | 6,201.6          | 5,824.1          | 8,269.5          | 7,233.7          |
| Democratic R of Congo                 | 18,879.3           | 15,177.1         | 13,466.0         | 14,298.1         | 24,454.7         |
| Zambia                                | 3,869.0            | 5,290.3          | 4,364.1          | 4,440.4          | 8,014.5          |
| Other <sup>3</sup>                    | 14,209.7           | 14,595.2         | 18,961.0         | 17,523.0         | 24,656.9         |
| <b>TOTAL AFRICA</b>                   | <b>227,640.8</b>   | <b>217,602.7</b> | <b>224,247.4</b> | <b>246,130.2</b> | <b>309,252.3</b> |
| <b>ASIA</b>                           |                    |                  |                  |                  |                  |
| <b>MIDDLE EAST</b>                    |                    |                  |                  |                  |                  |
| Iran                                  | 1,523.7            | 2,173.9          | 2,123.5          | 1,626.3          | 2,174.0          |
| Israel                                | 747.5              | 922.1            | 592.4            | 623.5            | 888.7            |
| Jordan                                | 1,593.7            | 1,449.3          | 1,338.6          | 2,701.9          | 1,144.5          |
| Saudi Arabia                          | 7,845.7            | 10,018.5         | 8,903.1          | 8,150.0          | 7,699.5          |
| United Arab Emirates                  | 26,370.1           | 35,008.8         | 38,685.0         | 34,434.9         | 34,558.9         |
| Yemen Arab Republic                   | 6,387.3            | 4,890.3          | 4,977.6          | 4,691.5          | 4,985.4          |
| Other                                 | 6,906.6            | 9,244.2          | 9,367.2          | 7,231.4          | 8,216.0          |
| <b>Total Middle East</b>              | <b>51,374.7</b>    | <b>63,707.1</b>  | <b>65,987.3</b>  | <b>59,459.5</b>  | <b>59,666.9</b>  |
| <b>FAR EAST</b>                       |                    |                  |                  |                  |                  |
| China(Mainland)                       | 9,997.5            | 11,132.9         | 15,160.3         | 14,794.5         | 21,886.4         |
| India                                 | 5,981.7            | 9,100.9          | 5,404.4          | 7,686.2          | 10,408.0         |
| Indonesia                             | 1,190.9            | 1,092.3          | 1,084.0          | 861.0            | 912.0            |
| Japan                                 | 4,504.8            | 5,072.5          | 5,478.0          | 4,789.8          | 6,716.9          |
| Korea Republic (South Korea)          | 2,352.5            | 2,828.4          | 2,350.7          | 2,359.4          | 3,915.2          |
| Pakistan                              | 64,057.8           | 59,387.4         | 45,239.5         | 54,656.5         | 53,172.9         |
| Singapore                             | 375.4              | 525.0            | 1,962.1          | 665.0            | 651.4            |
| Afghanistan                           | 3,146.8            | 3,772.7          | 3,609.3          | 2,301.5          | 606.2            |
| Thailand                              | 5,000.8            | 7,258.0          | 2,771.4          | 2,082.7          | 2,310.0          |
| Other                                 | 14,477.4           | 17,041.5         | 6,916.5          | 7,966.9          | 11,283.9         |
| <b>Total Far East</b>                 | <b>111,085.7</b>   | <b>117,211.5</b> | <b>89,976.2</b>  | <b>98,163.5</b>  | <b>111,862.9</b> |
| <b>TOTAL ASIA</b>                     | <b>162,460.3</b>   | <b>180,918.5</b> | <b>155,963.5</b> | <b>157,623.0</b> | <b>171,529.8</b> |
| <b>AUSTRALIA &amp; OCEANIC</b>        |                    |                  |                  |                  |                  |
| Australia                             | 2,284.8            | 2,878.8          | 2,411.8          | 2,351.5          | 2,573.8          |
| Other                                 | 1,291.7            | 1,520.7          | 3,035.9          | 261.1            | 454.3            |
| <b>TOTAL AUSTRALIA &amp; OCEANIA</b>  | <b>3,576.5</b>     | <b>4,399.5</b>   | <b>5,447.7</b>   | <b>2,612.6</b>   | <b>3,028.1</b>   |
| All Other Countries                   | 1,213.3            | 1,269.4          | 1,585.4          | 873.8            | 1,657.2          |
| Aircraft and Ships Stores             | 1,262.9            | 1,518.7          | 2,046.7          | 12,647.9         | 3,081.2          |
| <b>Total All Other Counties n.e.s</b> | <b>2,476.2</b>     | <b>2,788.0</b>   | <b>3,632.0</b>   | <b>13,521.6</b>  | <b>4,738.4</b>   |
| <b>GRAND TOTAL EXPORTS</b>            | <b>597,904.1</b>   | <b>614,315.7</b> | <b>596,676.6</b> | <b>643,706.2</b> | <b>743,671.1</b> |

Source: Kenya National Bureau of Statistics/ Kenya Revenue Authority

\*Provisional

<sup>1</sup>Includes data on Small Scale Cross Border Trade and Electricity<sup>2</sup>United Kingdom exited the EU in February 2020<sup>3</sup>See Table 6.15 for details

**6.30.** Imports from Asia accounted for 65.7 per cent of the total import bill in 2021, with imports from this source having risen by 35.5 per cent to KSh 1,413.2 billion during the year under review, as presented in Table 6.14. Imports from the Far East rose from KSh 846.1 billion in 2020 to KSh 1,056.8 billion in 2021. Similarly, imports from the Middle East rose from KSh 196.5 billion in 2020 to KSh 356.4 billion in 2021. This increase was evident in majority of the countries within these sub-regions. Expenditure on imported motor spirit premium, gas oil and other refined petroleum products from the UAE rose from KSh 59.5 billion in 2020 to KSh 141.1 billion in 2020, resulting to a 93.5 per cent increase in total import expenditure from this source. Similarly, increased imports of refined petroleum products, specifically automotive gas oil and jet fuel, from Saudi Arabia drove the increase in imports from this source, from KSh 69.0 billion in 2020 to KSh 114.7 billion in 2021. Imports of crude palm oil from Malaysia accounted for 66.6 per cent of total imports from this source in 2021 and largely contributed to the marked increase in imports from KSh 26.8 billion in 2020 to KSh 62.4 billion in 2021.

**6.31.** China remained the single leading source of Kenya's imports, accounting for 20.5 per cent of total imports valued at KSh 441.4 billion in 2021. Increased imports of iron and steel; and assorted machinery and equipment resulted to the growth in



**Expenditure on imported motor spirit premium, gas oil and other refined petroleum products from the UAE rose from KSh 59.5 billion in 2020 to KSh 141.1 billion in 2020, resulting to a 93.5 per cent increase in total import expenditure from this source**

expenditure on imported products from China.

**6.32.** Europe accounted for 16.5 per cent of the total import bill in 2021 with imports valued at KSh 355.1 billion. This was a 14.8 per cent increase in imports from the value recorded in the previous year. Imports from the European Union constituted the bulk of imports from Europe at KSh 228.0 billion in 2021. The Netherlands, Germany, Italy, Belgium, Spain and Poland were some of the EU countries that recorded increased imports with the value of imports from these sources jointly growing from KSh 139.8 billion in 2020 to KSh 158.8 billion in 2021.

Increased imports of petroleum products from the Netherlands and Belgium; and imports of structures such as bridge and bridge sections; and miscellaneous chemical products from Spain partly resulted to the increase in import expenditure from these sources. Similarly, imports from the United Kingdom rose from KSh 29.2 billion in 2020 to KSh 33.6 billion in 2021 while those from Ukraine more than doubled to KSh 19.3 billion in the same period. Alcoholic beverages, motor vehicles; and paper and paperboard were some of the commodities which recorded increased expenditure from the United Kingdom. A marked increase in imports of wheat; and products of iron and steel from Ukraine drove the growth in imports from this source in 2021.

**6.33.** America accounted for 5.7 per cent of total imports valued at KSh 123.7 billion in 2021. Within this region, imports from the United States of America rose from KSh 56.3 billion in 2020 to KSh 84.2 billion in 2021. This was largely attributable to expenditure on imported liquefied butanes, aircraft equipment and parts; and medicinal and pharmaceutical products which jointly rose from KSh 20.4 billion in 2020 to KSh 44.9 billion in 2021. However, imports from Canada declined for the second consecutive year to KSh 8.7 billion in 2021.

**Table 6.14: Value of Imports by Origin<sup>1</sup>, 2017-2021**

|                             | 2017             | 2018             | 2019             | 2020             | KSh Million<br>2021* |
|-----------------------------|------------------|------------------|------------------|------------------|----------------------|
| <b>EUROPE</b>               |                  |                  |                  |                  |                      |
| <b>WESTERN EUROPE</b>       |                  |                  |                  |                  |                      |
| <b>European Union</b>       |                  |                  |                  |                  |                      |
| Germany                     | 42,988.8         | 46,599.2         | 46,439.1         | 40,206.5         | 42,994.2             |
| United Kingdom <sup>2</sup> | 30,050.2         | 31,555.4         | 35,265.9         |                  |                      |
| France                      | 26,834.8         | 23,929.5         | 24,691.0         | 23,283.1         | 22,491.0             |
| Italy                       | 22,388.0         | 25,731.4         | 21,125.2         | 23,587.0         | 24,712.1             |
| Netherlands                 | 19,539.5         | 19,364.1         | 31,926.0         | 41,884.7         | 46,815.4             |
| Belgium                     | 15,364.0         | 16,204.8         | 14,586.9         | 18,580.2         | 24,086.7             |
| Spain                       | 10,696.4         | 10,586.1         | 11,475.8         | 10,079.4         | 14,144.5             |
| Poland                      | 6,354.3          | 4,620.3          | 5,375.4          | 5,422.0          | 6,060.4              |
| Sweden                      | 6,255.5          | 7,338.6          | 5,972.4          | 6,286.0          | 6,263.3              |
| Czech Republic              | 4,442.6          | 4,078.6          | 2,550.6          | 3,588.0          | 3,323.3              |
| Denmark                     | 3,763.6          | 4,307.1          | 4,083.4          | 3,954.8          | 3,929.2              |
| Ireland                     | 3,255.8          | 6,651.8          | 10,134.1         | 4,044.9          | 4,533.6              |
| Austria                     | 2,343.9          | 2,593.9          | 4,711.1          | 2,787.1          | 2,360.9              |
| Finland                     | 2,122.7          | 2,972.2          | 3,979.4          | 5,234.6          | 6,771.5              |
| Hungary                     | 1,252.5          | 1,781.2          | 2,480.8          | 996.0            | 1,266.8              |
| Other                       | 8,881.5          | 11,289.5         | 10,630.8         | 14,211.5         | 18,239.8             |
| <b>Total EU</b>             | <b>206,534.0</b> | <b>219,603.8</b> | <b>235,427.9</b> | <b>204,145.7</b> | <b>227,992.7</b>     |
| United Kingdom <sup>2</sup> |                  |                  |                  | 29,190.4         | 33,594.1             |
| Other Western Europe        | 29,696.4         | 32,878.5         | 30,167.3         | 29,571.0         | 36,082.9             |
| <b>Total Western Europe</b> | <b>236,230.3</b> | <b>252,482.3</b> | <b>265,595.2</b> | <b>262,907.2</b> | <b>297,669.7</b>     |
| <b>EASTERN EUROPE</b>       |                  |                  |                  |                  |                      |
| Russian Federation          | 36,178.9         | 31,720.7         | 33,733.4         | 37,996.4         | 37,660.1             |
| Ukraine                     | 9,516.8          | 7,456.3          | 6,960.9          | 7,473.4          | 19,293.9             |
| Other                       | 788.9            | 901.7            | 1,070.8          | 1,024.2          | 482.6                |
| <b>Total Eastern Europe</b> | <b>46,484.6</b>  | <b>40,078.8</b>  | <b>41,765.2</b>  | <b>46,493.9</b>  | <b>57,436.6</b>      |
| <b>TOTAL EUROPE</b>         | <b>282,714.9</b> | <b>292,561.0</b> | <b>307,360.4</b> | <b>309,401.1</b> | <b>355,106.3</b>     |
| <b>AMERICA</b>              |                  |                  |                  |                  |                      |
| U.S.A                       | 57,377.4         | 53,245.1         | 62,271.7         | 56,306.3         | 84,246.6             |
| Canada                      | 9,902.0          | 8,920.4          | 13,891.5         | 10,436.2         | 8,698.9              |
| Brazil                      | 27,819.0         | 9,275.8          | 5,202.0          | 5,848.6          | 7,226.3              |
| Mexico                      | 21,139.6         | 1,885.3          | 2,190.3          | 5,039.1          | 3,466.0              |
| Argentina                   | 9,536.2          | 10,825.9         | 15,019.2         | 16,431.5         | 14,960.3             |
| Other                       | 2,772.3          | 1,701.5          | 8,098.5          | 2,561.2          | 5,073.7              |
| <b>TOTAL AMERICA</b>        | <b>128,546.7</b> | <b>85,853.9</b>  | <b>106,673.3</b> | <b>96,623.0</b>  | <b>123,671.7</b>     |

**Table 6.14: Value of Imports by Origin<sup>1</sup>, 2017-2021 (Continued)**

|                                      | 2017               | 2018               | 2019               | 2020               | 2021*              |
|--------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>AFRICA</b>                        |                    |                    |                    |                    |                    |
| South Africa                         | 61,879.6           | 64,733.5           | 74,040.4           | 45,779.2           | 44,078.2           |
| Tanzania                             | 18,224.6           | 18,011.9           | 27,699.7           | 27,881.0           | 54,472.9           |
| Uganda                               | 50,726.2           | 52,586.4           | 38,478.3           | 25,900.4           | 34,155.3           |
| Swaziland                            | 11,230.6           | 8,628.2            | 12,557.0           | 8,661.8            | 12,366.2           |
| Mauritius                            | 7,318.0            | 6,100.1            | 7,876.4            | 4,748.0            | 6,377.5            |
| Rwanda                               | 1,683.6            | 1,186.3            | 1,404.3            | 2,040.8            | 3,263.8            |
| Zambia                               | 7,739.4            | 6,884.6            | 6,685.1            | 3,616.8            | 6,142.6            |
| Other <sup>3</sup>                   | 52,592.1           | 52,066.7           | 65,456.4           | 66,650.2           | 69,974.0           |
| <b>TOTAL AFRICA</b>                  | <b>211,394.2</b>   | <b>210,197.8</b>   | <b>234,197.6</b>   | <b>185,278.2</b>   | <b>230,830.5</b>   |
| <b>ASIA</b>                          |                    |                    |                    |                    |                    |
| <b>MIDDLE EAST</b>                   |                    |                    |                    |                    |                    |
| Iran                                 | 13,169.1           | 10,419.3           | 6,089.1            | 4,847.2            | 3,702.8            |
| Israel                               | 6,292.6            | 6,302.3            | 5,061.2            | 4,453.2            | 5,226.2            |
| Jordan                               | 3,197.5            | 1,461.4            | 1,150.2            | 619.3              | 923.8              |
| Saudi Arabia                         | 114,606.9          | 172,703.0          | 127,164.8          | 69,002.4           | 114,678.9          |
| United Arab Emirates                 | 138,359.3          | 147,416.7          | 167,877.0          | 92,282.9           | 178,534.7          |
| Bahrain                              | 8,845.1            | 5,408.5            | 1,075.7            | 4,197.5            | 2,954.2            |
| Oman                                 | 5,107.0            | 6,680.3            | 9,295.0            | 10,028.5           | 22,019.0           |
| Other                                | 3,822.8            | 5,324.8            | 4,306.3            | 11,045.5           | 28,318.7           |
| <b>Total Middle East</b>             | <b>293,400.4</b>   | <b>355,716.3</b>   | <b>322,019.2</b>   | <b>196,476.5</b>   | <b>356,358.3</b>   |
| <b>FAR EAST</b>                      |                    |                    |                    |                    |                    |
| China                                | 390,622.3          | 370,826.4          | 376,725.6          | 361,366.7          | 441,364.8          |
| India                                | 170,410.2          | 185,252.1          | 178,873.4          | 188,588.4          | 230,976.4          |
| Indonesia                            | 56,861.9           | 46,104.6           | 50,630.4           | 62,692.7           | 44,415.0           |
| Japan                                | 81,662.9           | 99,822.7           | 99,433.2           | 87,594.3           | 97,826.9           |
| Korea South                          | 17,595.4           | 18,983.1           | 14,813.1           | 20,436.4           | 54,218.6           |
| Pakistan                             | 25,496.6           | 21,454.6           | 24,848.2           | 21,449.4           | 18,991.3           |
| Singapore                            | 5,829.2            | 3,116.1            | 6,891.2            | 8,884.0            | 10,555.6           |
| Taiwan                               | 11,813.7           | 10,105.0           | 15,039.7           | 14,475.1           | 16,213.6           |
| Malaysia                             | 17,867.6           | 21,482.9           | 25,651.1           | 45,563.3           | 93,751.1           |
| Thailand                             | 21,006.7           | 19,971.5           | 19,339.4           | 15,370.1           | 19,719.8           |
| Other                                | 15,015.9           | 15,686.2           | 17,416.5           | 19,660.2           | 28,762.9           |
| <b>Total Far East</b>                | <b>814,182.4</b>   | <b>812,805.2</b>   | <b>829,661.8</b>   | <b>846,080.4</b>   | <b>1,056,795.9</b> |
| <b>TOTAL ASIA</b>                    | <b>1,107,582.7</b> | <b>1,168,521.5</b> | <b>1,151,681.0</b> | <b>1,042,556.9</b> | <b>1,413,154.3</b> |
| <b>AUSTRALIA &amp; OCEANIA</b>       |                    |                    |                    |                    |                    |
| Australia                            | 4,934.1            | 6,328.8            | 5,386.8            | 7,018.2            | 25,897.3           |
| Other                                | 1,093.3            | 887.1              | 754.5              | 496.9              | 1,415.2            |
| <b>TOTAL AUSTRALIA &amp; OCEANIA</b> | <b>6,027.4</b>     | <b>7,215.9</b>     | <b>6,141.3</b>     | <b>7,515.0</b>     | <b>27,312.5</b>    |
| All Other Counties n.e.s             | 206.2              | 121.3              | 281.0              | 2,185.9            | 1,157.8            |
| <b>GRAND TOTAL IMPORTS</b>           | <b>1,736,472.1</b> | <b>1,764,471.5</b> | <b>1,806,334.6</b> | <b>1,643,560.1</b> | <b>2,151,233.1</b> |

Source: Kenya National Bureau of Statistics/ Kenya Revenue Authority

\*Provisional

<sup>1</sup>Includes data on Small Scale Crosses Border Trade and Electricity

<sup>2</sup>United Kingdom exited the EU in February 2020

<sup>3</sup>See Table 6.15 for details

**6.34.** Table 6.15 presents trade with other African countries for the period 2017 to 2021. Total exports to Africa rose by 25.6 per cent from KSh 246.1 billion in 2020 to KSh 309.3 in 2021. The East African Community (EAC) accounted for 62.2 per cent of the total value of exports to the Africa continent, growing from KSh 158.3 billion in 2020 to KSh 192.4 billion in 2021. This growth was largely on an account of increase in exports to Uganda (26.9%) and Tanzania (43.1%). Despite the overall increase in exports to the EAC, exports to South Sudan declined by



**Imports from Africa rose from KSh 185.3 billion in 2020 to KSh 230.8 billion in 2021. Imports from the EAC accounted for 40.1 per cent of total imports from Africa having risen by 64.5 per cent to KSh 92.5 billion in 2021 with all EAC countries recording increased demand for goods**

26.0 per cent over the review period. In 2021, export earnings from the COMESA region amounted to KSh 124.8 billion, representing an increase of 23.2 per cent from the previous period. The growth was partly contributed by increased exports to the Democratic Republic of Congo which exhibited an increase of KSh 10.2 billion from the previous year. However, export earnings from Sudan declined from KSh 8.3 billion in 2020 to KSh 7.2 billion in the period under review, largely on account of reduced exports of manufactured tobacco.

**6.35.** Imports from Africa rose from KSh 185.3 billion in 2020 to KSh 230.8 billion in 2021. Imports from the EAC accounted for 40.1 per cent of total imports from Africa having risen by 64.5 per cent to KSh 92.5 billion in 2021 with all EAC countries recording increased demand for goods. Imports from Tanzania nearly doubled from KSh 27.9 billion in 2020 to KSh 54.5 billion in 2021 partly attributable to increase in imports of maize and rice from this country. Increased demand for sugar and milk led to the increased expenditure of imports from Uganda.

**Table 6.15: Trade with African Countries<sup>1</sup>, 2017-2021**

|                                     | TOTAL EXPORTS        |                      |                      |                      |                      | IMPORTS              |                      |                      |                      |                      |
|-------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                     | 2017                 | 2018                 | 2019                 | 2020                 | 2021*                | 2017                 | 2018                 | 2019                 | 2020                 | 2021*                |
| <b>EAST AFRICAN COMMUNITY (EAC)</b> |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Tanzania                            | 29,265,238.4         | 29,972,186.8         | 33,864,855.0         | 31,832,967.6         | 45,560,296.7         | 18,224,635.4         | 18,011,924.9         | 27,699,677.8         | 27,880,998.1         | 54,472,909.3         |
| Uganda                              | 63,421,501.3         | 62,628,771.2         | 64,106,065.0         | 72,219,585.0         | 91,653,328.0         | 50,726,238.0         | 52,586,404.5         | 38,478,296.7         | 25,900,422.2         | 34,155,309.0         |
| Rwanda                              | 17,124,028.3         | 17,842,204.1         | 23,174,876.1         | 25,211,279.2         | 30,519,720.8         | 1,683,595.7          | 1,186,307.9          | 1,404,275.5          | 2,040,838.4          | 3,263,812.7          |
| Burundi                             | 7,381,994.2          | 6,592,609.1          | 6,725,941.6          | 5,878,806.4          | 7,530,898.8          | 59,481.4             | 67,760.4             | 65,077.9             | 355,335.9            | 498,617.4            |
| South Sudan                         | 16,544,222.9         | 12,967,744.5         | 12,574,655.3         | 23,194,679.8         | 17,154,131.4         | 33,203.7             | 16,554.5             | 26,955.4             | 55,993.1             | 92,343.7             |
| <b>Total, EAC</b>                   | <b>134,036,985.2</b> | <b>130,003,515.7</b> | <b>140,446,393.1</b> | <b>158,337,318.0</b> | <b>192,418,375.7</b> | <b>70,727,154.1</b>  | <b>71,868,952.3</b>  | <b>67,674,283.2</b>  | <b>56,233,587.6</b>  | <b>92,482,992.1</b>  |
| <b>COMESA<sup>2</sup></b>           |                      |                      |                      |                      |                      |                      |                      |                      |                      |                      |
| Egypt                               | 19,005,227.8         | 20,125,101.0         | 18,927,359.3         | 18,982,955.5         | 21,175,453.8         | 35,382,586.2         | 36,338,938.7         | 42,571,055.9         | 44,853,458.5         | 48,888,661.1         |
| Congo, D.R                          | 18,879,329.9         | 15,177,067.8         | 13,466,012.9         | 14,298,069.1         | 24,454,689.3         | 504,619.1            | 1,289,056.1          | 1,951,927.4          | 2,754,354.8          | 3,616,254.2          |
| Ethiopia                            | 8,230,358.8          | 6,677,739.6          | 7,104,395.0          | 9,403,730.0          | 13,890,648.8         | 3,209,969.8          | 1,785,385.6          | 2,082,511.9          | 1,848,605.7          | 1,919,677.4          |
| Sudan                               | 6,906,507.5          | 6,201,573.1          | 5,824,133.3          | 8,269,478.3          | 7,233,725.8          | 2,186,197.2          | 665,631.2            | 3,214,940.5          | 448,465.4            | 423,700.0            |
| Zambia                              | 3,868,968.5          | 5,290,334.9          | 4,364,091.9          | 4,440,422.1          | 8,014,460.6          | 7,739,372.0          | 6,884,645.3          | 6,685,124.1          | 3,616,770.2          | 6,142,560.5          |
| Malawi                              | 2,972,318.5          | 3,223,000.1          | 3,631,902.5          | 4,115,243.4          | 5,356,563.5          | 402,119.3            | 1,410,425.4          | 3,284,611.8          | 2,988,290.3          | 1,716,743.9          |
| Zimbabwe                            | 1,506,220.0          | 1,146,964.4          | 979,212.1            | 1,136,964.4          | 2,980,094.0          | 2,946,018.2          | 1,767,851.0          | 4,314,144.0          | 5,664,150.7          | 1,892,388.4          |
| Mauritius                           | 1,111,360.5          | 1,211,628.2          | 1,267,034.5          | 1,149,942.8          | 1,237,598.4          | 7,317,990.0          | 6,100,113.1          | 7,876,377.5          | 4,747,981.0          | 6,377,537.0          |
| Djibouti                            | 779,675.1            | 641,115.9            | 675,277.3            | 728,207.2            | 982,087.8            | 47,183.9             | 980.2                | 112,828.0            | 4,658.3              | 7,788.2              |
| Comoros                             | 559,762.0            | 444,515.6            | 247,215.9            | 145,384.3            | 110,371.8            | 788.5                | 2,064.2              | 15.2                 | 14.4                 | 0.2                  |
| Madagascar                          | 328,854.2            | 353,157.0            | 658,126.8            | 216,939.1            | 314,927.7            | 1,644,846.4          | 749,642.9            | 2,105,015.4          | 1,898,424.6          | 1,449,258.1          |
| Eritrea                             | 175,703.0            | 129,399.0            | 140,220.3            | 73,329.8             | 171,044.8            | 3,034.7              | 0.0                  | 0.0                  | 32.2                 | 5.6                  |
| Seychelles                          | 174,562.3            | 238,610.0            | 206,909.8            | 188,425.6            | 588,788.3            | 0.0                  | 2,975.0              | 10,729.8             | 3,740.3              | 61,568.3             |
| Swaziland                           | 56,433.0             | 222,192.4            | 33,316.3             | 59,923.3             | 157,228.2            | 11,230,575.2         | 8,628,195.8          | 12,557,040.1         | 8,661,804.9          | 12,366,166.8         |
| Libya                               | 47,493.3             | 30,509.5             | 124,082.2            | 56,186.3             | 223,739.6            | 0.0                  | 0.0                  | 0.0                  | 122.2                | 33.5                 |
| <b>Sub-Total, COMESA</b>            | <b>64,602,774.4</b>  | <b>61,112,908.6</b>  | <b>57,649,290.1</b>  | <b>63,265,201.2</b>  | <b>86,891,422.2</b>  | <b>72,615,300.7</b>  | <b>65,625,904.4</b>  | <b>86,766,321.6</b>  | <b>77,490,873.7</b>  | <b>84,862,343.2</b>  |
| <b>Total, COMESA</b>                | <b>169,374,521.2</b> | <b>161,144,237.4</b> | <b>164,230,828.2</b> | <b>189,769,551.6</b> | <b>233,749,501.2</b> | <b>125,117,819.5</b> | <b>119,482,931.8</b> | <b>126,740,927.1</b> | <b>105,843,463.3</b> | <b>122,872,426.0</b> |

**Table 6.15: Trade with African Countries<sup>1</sup>, 2017-2021 (Continued)**

| OTHER COUNTRIES             | 2017                 | 2018                 | 2019                 | 2020                 | 2021*                | 2017                 | 2018                 | 2019                 | 2020                 | 2021*                | KSh '000 |
|-----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------|
|                             |                      |                      |                      |                      |                      |                      | TOTAL EXPORTS        |                      |                      | IMPORTS              |          |
| Algeria                     | 30,196.5             | 40,154.3             | 118,180.8            | 36,102.0             | 69,713.7             | 8,678.9              | 2,016.8              | 21,920.5             | 15,821.3             | 10,987.9             |          |
| Angola                      | 39,138.2             | 102,839.7            | 68,561.2             | 155,715.1            | 106,106.7            | 161,827.9            | 389,445.4            | 565.9                | 21,661.4             | 3,832.4              |          |
| Ghana                       | 542,356.5            | 1,258,065.2          | 596,630.9            | 914,241.4            | 1,128,899.0          | 202,174.3            | 187,016.9            | 135,309.1            | 229,304.4            | 488,118.1            |          |
| Nigeria                     | 2,649,018.9          | 2,231,631.4          | 2,806,310.8          | 4,021,785.0          | 3,631,075.5          | 425,429.2            | 663,467.8            | 1,113,014.4          | 184,672.2            | 455,993.4            |          |
| Lesotho                     | 325,832.2            | 13,717.5             | 11,235.6             | 9,472.4              | 101,067.1            | 1,173.2              | 2,416.8              | 3,188.4              | 2,321.5              | 30,080.2             |          |
| Mozambique                  | 1,215,776.0          | 1,214,261.6          | 3,652,744.9          | 901,447.5            | 1,359,331.3          | 3,173,283.8          | 3,243,683.6          | 2,521,151.1          | 2,090,593.8          | 2,219,246.4          |          |
| Reunion                     | 149,490.3            | 193,112.8            | 172,689.0            | 108,594.3            | 225,729.0            | 0.0                  | 20.6                 | 1,269.8              | 2,129.8              | 369.4                |          |
| Somalia                     | 19,745,139.3         | 15,145,272.3         | 11,841,821.1         | 11,394,369.6         | 13,451,548.8         | 102,618.7            | 954,489.9            | 485,778.4            | 58,819.5             | 106,943.7            |          |
| South Africa                | 2,758,621.2          | 4,386,989.9          | 3,312,165.3          | 3,480,852.8          | 3,956,466.8          | 61,879,610.9         | 64,733,515.6         | 74,040,376.4         | 45,779,182.4         | 44,078,230.6         |          |
| All Other African Countries | 1,545,464.1          | 1,900,279.3          | 3,571,336.6          | 3,505,067.0          | 5,912,517.1          | 2,096,910.3          | 2,526,838.3          | 1,434,410.0          | 3,169,196.8          | 6,091,363.3          |          |
| <b>Sub-Total</b>            | <b>29,001,033.2</b>  | <b>26,486,323.9</b>  | <b>26,151,676.2</b>  | <b>24,527,647.1</b>  | <b>29,942,455.0</b>  | <b>68,051,707.3</b>  | <b>72,702,911.8</b>  | <b>79,756,984.0</b>  | <b>51,553,703.2</b>  | <b>53,485,165.5</b>  |          |
| <b>TOTAL AFRICA</b>         | <b>227,640,792.8</b> | <b>217,602,748.1</b> | <b>224,247,359.5</b> | <b>246,130,166.3</b> | <b>309,252,252.9</b> | <b>211,394,162.1</b> | <b>210,197,768.5</b> | <b>234,197,588.9</b> | <b>185,278,164.5</b> | <b>230,830,500.8</b> |          |

Source: Kenya National Bureau of Statistics/Kenya Revenue Authority

<sup>\*</sup> Provisional<sup>1</sup> Includes data on Small Scale Cross Border Trade and Electricity<sup>2</sup> EAC Partner States are also members of COMESA except Tanzania

## Balance of Payments

**6.36.** During the review period, the current account deficit worsened by 30.1 per cent to KSh 663.8 billion from KSh 510.1 billion in 2020 as summarised in Table 6.16. This was mainly on account of a 30.2 per cent increase in imports valued on f.o.b. basis to KSh 1,993.9 billion supported by growth in import bill on petroleum products. Total exports improved by 16.1 per cent to KSh 748.0 billion in 2021 from KSh 644.2 billion in 2020, on account of increased exports of horticultural products.

**6.37.** International trade in services recorded a surplus of KSh 92.8 billion in 2021 compared to a surplus of KSh 35.2 billion recorded in 2020. The significant growth was partly as a result of 60.6 per cent increase in travel receipts which reflected a recovery as international travel continues to improve following gradual easing of travel restrictions earlier imposed to contain the spread of COVID-19 pandemic. The continued recovery in international travel and increased demand for goods and services positively

impacted revenues from freight and passenger transport services which also contributed to the growth in services receipts. The secondary income account posted a surplus of KSh 670.8 billion in 2021 from a surplus of KSh 527.1 billion in 2020, an increase of 27.3 per cent. This was mainly on account of remittances which continued to be resilient, increasing by 24.9 per cent to KSh 413.3 billion in 2021, an indication of increased support from Kenyans in the diaspora. The current account balance was 5.5 per cent of the GDP in 2021 compared to 4.8 per cent of the GDP in 2020.

**6.38.** In 2021, net financial inflows more than doubled to a surplus of KSh 684.6 billion from a surplus of KSh 289.5 billion in 2020. During the period under review, nearly all the functional categories in the financial account recorded improved inflows with Other Investment registering a 74.1 per cent increase in net inflows to a surplus of KSh 641.5 billion in 2021, partly due to Special Drawing Rights (SDR) allocations and disbursements to Government. The country received KSh 81.4 billion in SDR allocations as relief towards addressing the crisis caused by the COVID-19 pandemic. Similarly, deposit taking corporations increased their uptake of loans and reduced their holdings of foreign assets. Portfolio inflows increased following the issuance of the fourth International Sovereign Bond by the Government in the second quarter of 2021. In the year under review, the country received the Debt Service Suspension Initiative (DSSI) relief, amounting to KSh 55.3 billion. The DSSI relief was in response to the COVID-19 pandemic and was meant to free up resources to support COVID-19 related expenditures. Reserve assets increased by KSh 127.3 billion in 2021 mainly supported by increase in SDR holdings.



**International trade in services recorded a surplus of KSh 92.8 billion in 2021 compared to a surplus of KSh 35.2 billion recorded in 2020. The significant growth was partly as a result of 60.6 per cent increase in travel receipts which reflected a recovery as international travel continues to improve following gradual easing of travel restrictions earlier imposed to contain the spread of COVID-19 pandemic**

**Table 6.16: Balance of Payments, 2017-2021**

|  | <i>KSh Million</i> |                    |                    |                    |                    |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
|  | <b>2017*</b>       | <b>2018*</b>       | <b>2019*</b>       | <b>2020*</b>       | <b>2021*</b>       |
| <b>A. Current Account</b>                                      | <b>-593,569.1</b>  | <b>-505,410.3</b>  | <b>-536,306.3</b>  | <b>-510,078.7</b>  | <b>-663,787.1</b>  |
| <b>Goods: exports f.o.b</b>                                    | <b>599,900.2</b>   | <b>616,581.5</b>   | <b>598,764.1</b>   | <b>644,206.2</b>   | <b>747,958.6</b>   |
| <b>Goods: imports f.o.b</b>                                    | <b>1,653,359.8</b> | <b>1,649,818.6</b> | <b>1,688,325.5</b> | <b>1,531,835.4</b> | <b>1,993,852.4</b> |
| <b>Services: credit</b>  | <b>480,601.0</b>   | <b>554,875.5</b>   | <b>571,203.1</b>   | <b>388,769.4</b>   | <b>530,716.5</b>   |
| of which Travel  | 94,705.3           | 108,623.9          | 102,743.0          | 57,616.9           | 92,523.8           |
| <b>Services: debit</b>   | <b>319,742.2</b>   | <b>393,166.0</b>   | <b>393,155.0</b>   | <b>353,582.8</b>   | <b>437,890.7</b>   |
| Balance on goods and services                                  | -892,600.9         | -871,527.7         | -911,513.3         | -852,442.7         | -1,153,067.9       |
| <b>Primary income: credit</b>                                  | <b>14,874.8</b>    | <b>21,621.5</b>    | <b>22,174.0</b>    | <b>5,642.7</b>     | <b>6,750.5</b>     |
| <b>Primary income: debit</b>                                   | <b>176,303.3</b>   | <b>162,501.6</b>   | <b>185,849.8</b>   | <b>190,386.7</b>   | <b>188,292.9</b>   |
| Balance on goods, services, and primary income                 | -1,054,029.3       | -1,012,407.8       | -1,075,189.0       | -1,037,186.7       | -1,334,610.3       |
| <b>Secondary income : credit</b>                               | <b>466,247.6</b>   | <b>511,848.0</b>   | <b>544,457.2</b>   | <b>535,310.5</b>   | <b>686,238.0</b>   |
| of which Diaspora Remittances                                  | 202,918.7          | 275,577.4          | 289,470.9          | 330,841.8          | 413,344.1          |
| <b>Secondary income: debit</b>                                 | <b>5,787.4</b>     | <b>4,850.5</b>     | <b>5,574.5</b>     | <b>8,202.5</b>     | <b>15,414.8</b>    |
| <b>B. Capital Account</b>                                      | <b>19,046.0</b>    | <b>26,593.0</b>    | <b>21,146.0</b>    | <b>14,023.0</b>    | <b>21,450.6</b>    |
| Capital account: credit  | 19,046.0           | 26,593.0           | 21,146.0           | 14,023.0           | 21,450.6           |
| Capital account: debit   | 0.0                | 0.0                | 0.0                | 0.0                | 0.0                |
| <b>C. Financial Account</b>                                    | <b>-592,677.5</b>  | <b>-614,126.7</b>  | <b>-482,990.0</b>  | <b>-289,468.9</b>  | <b>-684,575.7</b>  |
| <b>Direct investment: assets</b>                               | <b>11,365.8</b>    | <b>-325.9</b>      | <b>3,796.8</b>     | <b>-15,167.0</b>   | <b>-14,370.9</b>   |
| <b>Direct investment: liabilities</b>                          | <b>139,198.7</b>   | <b>77,775.4</b>    | <b>47,929.8</b>    | <b>45,380.5</b>    | <b>50,800.5</b>    |
| <b>Portfolio investment: assets</b>                            | <b>104,240.3</b>   | <b>116,631.2</b>   | <b>88,266.4</b>    | <b>112,235.5</b>   | <b>111,914.8</b>   |
| Equity and investment fund shares                              | 70,985.3           | 107,367.9          | 79,777.8           | 79,236.0           | 75,972.1           |
| Debt securities  | 33,255.0           | 9,263.3            | 8,488.7            | 32,999.5           | 35,942.7           |
| <b>Portfolio investment: liabilities</b>                       | <b>5,460.3</b>     | <b>189,589.6</b>   | <b>131,626.1</b>   | <b>-28,587.4</b>   | <b>92,327.8</b>    |
| Equity and investment fund shares                              | -6,377.0           | -25,457.9          | 861.4              | -29,118.5          | -10,684.6          |
| Debt securities  | 11,837.4           | 215,047.5          | 130,764.8          | 531.1              | 103,012.4          |
| Financial derivatives: net                                     | 470.8              | 946.5              | -737.7             | -1,296.3           | 2,467.7            |
| <b>Other investment: assets</b>                                | <b>18,073.8</b>    | <b>97,145.5</b>    | <b>60,976.6</b>    | <b>105,168.8</b>   | <b>17,481.5</b>    |
| Other debt instruments   | 18,073.8           | 97,145.5           | 60,976.6           | 105,168.8          | 17,481.5           |
| Deposit-taking corporations, except the central bank           | 19,946.9           | 91,565.4           | 58,852.0           | 105,964.2          | 16,632.6           |
| Other sectors  | -1,873.2           | 5,580.1            | 2,124.6            | -795.4             | 848.9              |
| Other financial corporations                                   | -41.6              | 419.8              | 213.6              | -339.3             | -304.7             |
| Nonfinancial corporations, households, and NPISHs <sup>1</sup> | -1,831.5           | 5,160.3            | 1,910.9            | -456.1             | 1,153.6            |

**Table 6.16: Balance of Payments, 2017-2021 (Continued)**

|  | <i>KSh Million</i> |                  |                   |                   |                  |
|--|--------------------|------------------|-------------------|-------------------|------------------|
|  | 2017*              | 2018*            | 2019*             | 2020*             | 2021*            |
| Other investment: liabilities                                  | 582,169.2          | 561,158.9        | 455,736.2         | 473,616.8         | 658,940.6        |
| Other equity   | 883.5              | 0.0              | 0.0               | 0.0               | 0.0              |
| Special Drawing Rights   | 0.0                | 0.0              | 0.0               | 0.0               | 81,411.7         |
| Other debt instruments   | 581,285.7          | 561,158.9        | 455,736.2         | 473,616.8         | 577,528.8        |
| Central bank   | 1,513.5            | -17,426.6        | -8.4              | 190.2             | 12.4             |
| Deposit-taking corporations, except the central bank           | 11,620.6           | 14,932.3         | 59,698.1          | 59,163.3          | 117,959.2        |
| General government   | 297,287.9          | 249,739.9        | 139,550.9         | 200,372.8         | 172,932.1        |
| Other sectors  | 270,863.7          | 313,913.3        | 256,495.7         | 213,890.4         | 286,625.1        |
| Other financial corporations                                   | 14,264.4           | 12,549.5         | 12,703.7          | -4,236.7          | -3,896.5         |
| Nonfinancial corporations, households, and NPISHs <sup>1</sup> | 256,599.3          | 301,363.8        | 243,792.0         | 218,127.1         | 290,521.6        |
| <b>D. Net Errors and Omissions</b>                             | <b>-30,175.3</b>   | <b>-36,590.0</b> | <b>143,574.0</b>  | <b>54,102.8</b>   | <b>-62,679.5</b> |
| <b>E. Overall Balance</b>                                      | <b>12,020.9</b>    | <b>-98,719.4</b> | <b>-111,403.7</b> | <b>152,483.9</b>  | <b>20,440.3</b>  |
| <b>F. Reserves and Related Items</b>                           | <b>-12,020.9</b>   | <b>98,719.4</b>  | <b>111,403.7</b>  | <b>-152,483.9</b> | <b>-20,440.3</b> |
| Reserve assets   | -24,432.9          | 83,997.1         | 95,673.3          | -87,470.8         | 127,280.4        |
| Credit and loans from the IMF                                  | -12,412.0          | -14,722.3        | -15,730.4         | 65,013.1          | 92,429.9         |
| Exceptional financing  | 0.0                | 0.0              | 0.0               | 0.0               | 55,290.7         |
| Current Account balance as % of GDP                            | -7.0               | -5.4             | -5.2              | -4.8              | -5.5             |

Source: Kenya National Bureau of Statistics/Central Bank of Kenya

\* Provisional

<sup>†</sup> Revised

f.o.b: free on board

<sup>1</sup>NPISHs: Non-Profit Institutions Serving Households

### International Liquidity

**6.39.** The stock of Special Drawing Rights (SDR) holdings increased from KSh 2.9 billion as at December, 2020 to KSh 77.6 billion as at December 2021 as highlighted in Table 6.17. This was mainly attributable to disbursements from the IMF, including SDRs allocations in August, 2021 as part of the COVID-19 relief. The increase in SDR holdings drove the increase in external assets of the Central Bank from KSh 902.8 billion in 2020 to KSh 1,070.7 billion in 2021. Similarly, the stock of external liabilities rose

by 69.2 per cent to KSh 242.2 billion at the end of 2021, with the Use of Fund Credit having risen from KSh 111.0 billion at the end of 2020 to KSh 206.1 billion at the end of 2021. Consequently, net foreign assets of the Central Bank rose by 9.1 per cent to KSh 828.5 billion. The overall effect was an increase in the stock of Gross Foreign Reserves from KSh 905.0 billion at the end of 2020 to KSh 1,072.9 billion at the end of 2021.

**Table 6.17: Central Monetary Authorities: Foreign Exchange Reserves, 2017-2021**

| As at end of | Official Foreign Assets and Liabilities |   |                          |                    |   |                         |                |                                     | KSh Million |
|--------------|---|---|--------------------------|--------------------|---|-------------------------|----------------|-------------------------------------|-------------|
|              | S.D.R Holdings                          | Central Bank Of Kenya                         |                          |                    |   | Government              |                |                                     |             |
|              |   | Foreign Exchange Reserves (Incl. cash + gold) | External Banks' Deposits | Use of Fund Credit | Net Foreign Assets <sup>1</sup> of Central Bank | Reserve Position in IMF | Other Holdings | Reserves of Government <sup>2</sup> |             |
| 2017         | 1,491.8                                 | 751,960.7                                     | 18,991.6                 | 69,815.9           | 664,644.9                                       | 1,967.5                 | 48.4           | 2,015.8                             | 755,468.3   |
| 2018.        | 2,579.3                                 | 822,603.8                                     | 17,455.2                 | 52,132.8           | 755,595.1                                       | 1,899.1                 | 47.5           | 1,946.5                             | 827,129.6   |
| 2019         | 5,980.8                                 | 914,887.2                                     | 30,119.9                 | 36,548.4           | 854,199.7                                       | 1,877.2                 | 47.2           | 1,924.4                             | 922,792.3   |
| <b>2020</b>  |   |   |                          |                    |   |                         |                |                                     |             |
| January      | 5,309.8                                 | 886,491.7                                     | 20,763.6                 | 35,521.6           | 835,516.2                                       | 1,855.3                 | 46.7           | 1,902.0                             | 893,703.5   |
| February     | 4,357.7                                 | 876,799.3                                     | 19,871.4                 | 34,663.6           | 826,621.9                                       | 1,857.7                 | 46.6           | 1,904.3                             | 883,061.2   |
| March        | 4,526.6                                 | 896,634.5                                     | 24,439.6                 | 35,715.3           | 841,006.2                                       | 1,914.1                 | 48.3           | 1,962.4                             | 903,123.6   |
| April        | 1,480.8                                 | 892,254.9                                     | 23,737.9                 | 33,481.7           | 836,516.1                                       | 1,963.9                 | 49.3           | 2,013.2                             | 895,748.8   |
| May          | 1,455.1                                 | 1,036,973.8                                   | 23,800.4                 | 113,154.7          | 901,473.9                                       | 1,965.6                 | 49.2           | 2,014.8                             | 1,040,443.6 |
| June         | 3,252.9                                 | 1,031,259.7                                   | 24,450.1                 | 110,605.1          | 899,457.3                                       | 1,963.1                 | 49.5           | 2,012.6                             | 1,036,525.2 |
| July         | 2,717.5                                 | 1,032,400.8                                   | 27,264.7                 | 114,212.6          | 893,640.9                                       | 2,038.8                 | 51.0           | 2,089.9                             | 1,037,208.1 |
| August       | 1,734.9                                 | 990,350.5                                     | 29,097.2                 | 114,218.5          | 848,769.6                                       | 2,056.8                 | 51.7           | 2,108.5                             | 994,193.8   |
| September    | 8,597.9                                 | 939,359.5                                     | 22,174.4                 | 113,607.5          | 812,175.5                                       | 2,045.8                 | 51.4           | 2,097.2                             | 950,054.6   |
| October      | 5,333.9                                 | 901,693.7                                     | 27,205.1                 | 110,959.5          | 768,863.1                                       | 2,057.8                 | 52.0           | 2,109.8                             | 909,137.4   |
| November     | 5,457.2                                 | 893,523.0                                     | 25,431.8                 | 113,685.1          | 759,863.2                                       | 2,108.3                 | 52.8           | 2,161.2                             | 901,141.3   |
| December     | 2,870.2                                 | 899,952.2                                     | 32,115.1                 | 110,995.3          | 759,712.0                                       | 2,106.3                 | 53.0           | 2,159.3                             | 904,981.7   |
| <b>2021*</b> |   |   |                          |                    |   |                         |                |                                     |             |
| January      | 2,207.7                                 | 876,888.3                                     | 29,272.4                 | 111,335.9          | 738,487.7                                       | 2,125.9                 | 53.4           | 2,179.2                             | 881,275.3   |
| February     | 1,160.8                                 | 852,576.3                                     | 33,331.1                 | 109,840.9          | 710,565.1                                       | 2,117.0                 | 53.4           | 2,170.4                             | 855,907.5   |
| March        | 1,140.0                                 | 843,692.2                                     | 38,826.7                 | 107,873.4          | 698,132.1                                       | 2,079.1                 | 52.3           | 2,131.3                             | 846,963.5   |
| April        | 4,577.5                                 | 838,181.2                                     | 35,723.2                 | 137,920.9          | 669,114.6                                       | 2,074.5                 | 52.2           | 2,126.8                             | 844,885.4   |
| May          | 4,573.1                                 | 839,409.9                                     | 42,619.6                 | 138,429.2          | 662,934.2                                       | 2,082.2                 | 53.2           | 2,135.3                             | 846,118.3   |
| June         | 2,202.7                                 | 1,068,594.5                                   | 37,609.6                 | 178,322.8          | 854,864.8                                       | 2,060.8                 | 51.8           | 2,112.6                             | 1,072,909.9 |
| July         | 1,548.0                                 | 1,043,533.6                                   | 32,466.5                 | 179,199.5          | 833,415.7                                       | 2,078.7                 | 52.2           | 2,131.0                             | 1,047,212.6 |
| August       | 82,876.7                                | 919,585.1                                     | 11,314.4                 | 180,711.1          | 810,436.3                                       | 2,096.3                 | 52.7           | 2,148.9                             | 1,004,610.7 |
| September    | 82,439.4                                | 978,619.6                                     | 32,095.0                 | 179,757.5          | 849,206.4                                       | 2,085.2                 | 52.6           | 2,137.8                             | 1,063,196.8 |
| October      | 81,102.4                                | 954,947.9                                     | 31,949.0                 | 179,515.2          | 824,586.2                                       | 2,108.7                 | 53.0           | 2,161.6                             | 1,038,212.0 |
| November     | 79,906.4                                | 963,765.9                                     | 35,614.5                 | 178,567.2          | 829,490.6                                       | 2,110.8                 | 53.0           | 2,163.8                             | 1,045,836.1 |
| December     | 77,625.5                                | 993,050.5                                     | 36,084.6                 | 206,072.2          | 828,519.3                                       | 2,121.3                 | 53.3           | 2,174.6                             | 1,072,850.6 |

Source: Central Bank of Kenya

\*Provisional

<sup>1</sup>Comprises SDR Holdings plus Foreign Exchange less External Banks' Deposits and Use of Fund Credit<sup>2</sup>Comprises Reserve Position in IMF plus Other Holdings<sup>3</sup>Comprises SDRs; Cash and Gold Foreign Exchange of Central Bank Plus Reserves of Government constitute foreign assets, which are readily available for meeting external financial needs

## Foreign Exchange Rates of the Kenya Shilling against Selected Currencies

**6.40.** In 2021, the Kenya Shilling weakened against currencies of key trading countries as reflected in the Trade Weighted Index (TWI), which increased by 5.4 per cent from 115.37 in 2020 to 121.66, as presented in Table 6.18. The Kenya Shilling depreciated against, the Pound Sterling (10.3%), the Euro

(6.7%), the US Dollar (3.0%), Chinese Yuan (10.0%) and South African Rand (13.9%) in the period under review. Similarly, the Tanzanian and Ugandan Shillings gained against the Kenyan Shilling by 3.0 per cent and 6.4 per cent, respectively, in 2021.

**Table 6.18: Foreign Exchange Rates<sup>1</sup> of the Kenya Shilling against Selected Currencies, 2017-2021**

| Currency  | 2017          | 2018          | 2019          | 2020          | 2021*         |
|---|---------------|---------------|---------------|---------------|---------------|
| 1 Euro <sup>2</sup>                             | 116.73        | 119.63        | 114.18        | 121.65        | 129.76        |
| 1 US Dollar                                     | 103.41        | 101.29        | 101.99        | 106.47        | 109.65        |
| 1 Pound Sterling                                | 133.20        | 135.25        | 130.18        | 136.73        | 150.85        |
| 1 UAE Dirham                                    | 28.15         | 27.58         | 27.77         | 28.99         | 29.85         |
| 1 Deutsche Mark                                 | 59.68         | 61.17         | 58.38         | 62.20         | 66.34         |
| 1 Dutch Guilder                                 | 52.97         | 54.29         | 51.81         | 55.20         | 58.88         |
| 1 French Franc                                  | 17.80         | 18.24         | 17.41         | 18.54         | 19.78         |
| 100 Italian Lira                                | 6.03          | 6.18          | 5.90          | 6.28          | 6.70          |
| 1 Belgian Franc                                 | 2.89          | 2.97          | 2.83          | 3.02          | 3.22          |
| 1 Indian Rupee                                  | 1.59          | 1.48          | 1.45          | 1.44          | 1.48          |
| 1 Chinese Yuan                                  | 15.30         | 15.33         | 14.76         | 15.45         | 17.00         |
| 1 SA Rand                                       | 7.77          | 7.69          | 7.06          | 6.51          | 7.42          |
| 100 Japanese Yen                                | 92.22         | 91.74         | 93.59         | 99.80         | 99.94         |
| 1 Saudi Riyal                                   | 27.57         | 27.01         | 27.19         | 28.37         | 29.23         |
| 1 Egyptian Pound <sup>3</sup>                   | 5.80          | 5.69          | 6.07          | 6.74          | 6.99          |
| TSh/KSh <sup>4</sup>                            | 21.63         | 22.48         | 22.63         | 21.76         | 21.12         |
| 1 Pakistan Rupee <sup>3</sup>                   | 0.98          | 0.84          | 0.68          | 0.66          | 0.67          |
| 1 Swedish Kroner                                | 12.12         | 11.67         | 10.79         | 11.62         | 12.79         |
| 1 Swiss Franc                                   | 105.04        | 103.58        | 102.62        | 113.61        | 119.98        |
| USh/KSh <sup>4</sup>                            | 34.92         | 36.81         | 36.32         | 34.93         | 32.72         |
| 1 Congolese Franc <sup>3</sup>                  | 0.07          | 0.06          | 0.06          | 0.06          | 0.06          |
| 100 Rwanda Francs <sup>3</sup>                  | 8.11          | 8.50          | 8.82          | 8.86          | 9.13          |
| <b>Overall Trade Weighted Index, (2009=100)</b> | <b>116.52</b> | <b>115.66</b> | <b>113.04</b> | <b>115.37</b> | <b>121.66</b> |

Source: Central Bank of Kenya

\* Provisional

<sup>1</sup>Annual average

<sup>2</sup>Countries in the Euro area included in the computation of Trade Weighted Fisher's Ideal Index are:

Germany, France, Switzerland, Netherlands, Belgium and Italy.

<sup>3</sup>Via US dollar Exchange Rates

<sup>4</sup>Calculated as 1Kenya Shilling to Uganda or Tanzania shilling

# Agriculture Sector Review

## Overview

Growth in the agriculture sector decelerated from 5.2 per cent recorded in 2021 to negative 0.1 per cent in 2021. This was occasioned by unfavourable weather conditions in various parts of the country, which resulted in reduced crop and livestock production. Consequently, maize production decreased from 42.1 million bags in 2020 to 36.7 million bags in 2021. Coffee production declined by 6.0 per cent to 34.5 thousand tonnes in 2020/21. This was attributed to increased cost of farm inputs, leaf rust infestation, and the shift in land use from coffee farming to real estate, in addition to the unfavorable weather conditions. Tea production declined by 5.6 per cent in 2020 to 537.8 thousand tonnes in 2021. The volume of sugar cane deliveries increased from 6.8 million tonnes in 2020 to 7.8 million tonnes in 2021. This was largely attributed to improved cane availability in most of the sugar zones. The volume of marketed milk increased by 17.2 per cent to 801.9 million litres in 2021, while the volume of horticultural exports increased by 29.3 per cent to 405.5 thousand tonnes in 2021.

**7.2.** Table 7.1 shows agricultural output, intermediate consumption and value added at current and constant prices for the period 2017 to 2021. Output at current prices increased by 12.0 per cent from KSh 2,662.7 billion in 2020 to KSh 2,982.9 billion in 2021. Intermediate consumption and gross value added at current prices increased by 15.9 per cent and 11.1 per cent in 2021 largely due to increase in prices of intermediate inputs and outputs, respectively. Output and intermediate consumption at constant prices increased by 1.0 per cent and 5.5 per cent to KSh 1969.9 billion and KSh 404.4 billion, respectively, in 2021. Gross value added declined to negative 0.1 per cent to KSh 1,565.5 billion, in 2020.

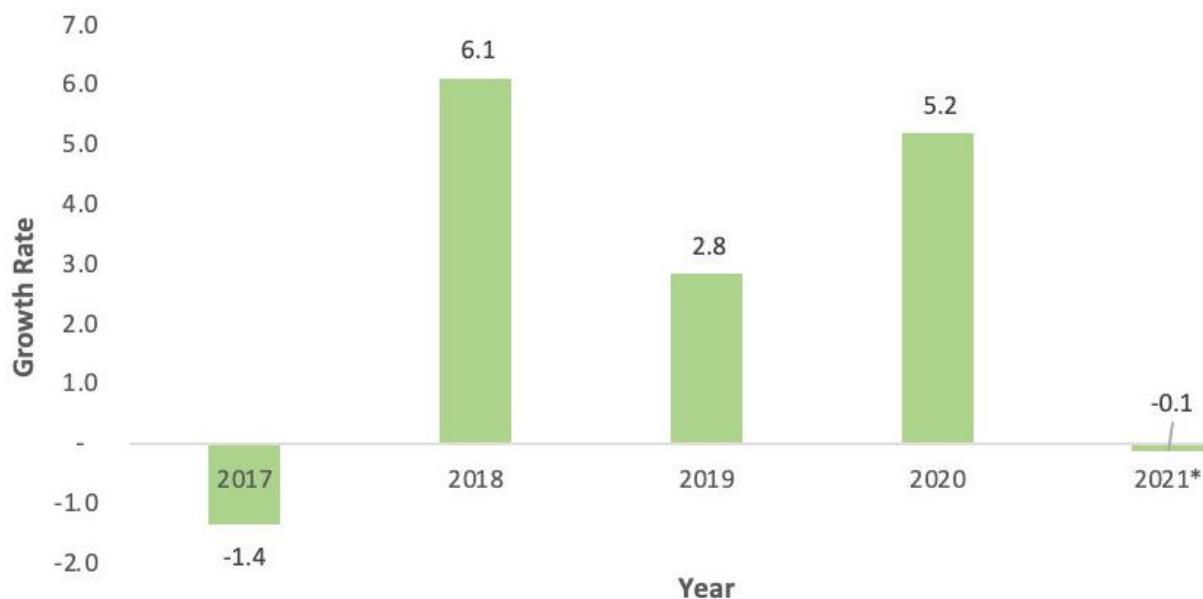
**Table 7.1: Agriculture Output and Input, 2017-2021**

|                                     | <i>KSh Million</i> |                  |                  |                  |                  |
|-------------------------------------|--------------------|------------------|------------------|------------------|------------------|
| <b>PRODUCTION AT CURRENT PRICES</b> | <b>2017</b>        | <b>2018</b>      | <b>2019</b>      | <b>2020</b>      | <b>2021*</b>     |
| Output at basic prices              | 1,992,705          | 2,099,266        | 2,337,922        | 2,662,709        | 2,982,940        |
| Intermediate consumption            | 365,519            | 378,805          | 416,390          | 474,695          | 550,078          |
| Value added at basic prices, gross  | 1,627,186          | 1,720,461        | 1,921,532        | 2,188,014        | 2,432,863        |
| <b>PRODUCTION CONSTANT PRICES</b>   |                    |                  |                  |                  |                  |
| Output                              | 1,689,721          | 1,785,520        | 1,845,314        | 1,951,021        | 1,969,882        |
| Intermediate consumption            | 323,554            | 335,969          | 354,775          | 383,310          | 404,350          |
| <b>VALUE ADDED, GROSS</b>           | <b>1,366,167</b>   | <b>1,449,551</b> | <b>1,490,539</b> | <b>1,567,711</b> | <b>1,565,532</b> |

Source: Kenya National Bureau of Statistics

\* Provisional

**Figure 7.1: Real Agricultural Growth Rate, 2017 - 2021**



## Marketed Output

**7.3.** Table 7.2 shows earnings from marketed agricultural output for the period 2017 to 2021. Overall, the value of marketed agricultural production increased by 4.3 per cent from KSh 505.3 billion in 2020 to KSh 527.0 billion in 2021. Crops contributed the highest share of marketed production in 2021, at 69.3 per cent. This was largely driven by better prices for most of the commodities.

**7.4.** Earnings from coffee increased significantly from KSh 10.8 billion in 2020 to KSh 18.6 billion in 2021. This was attributed to the twin effect of increased quantity of marketed coffee and higher prices. Sim-

ilarly, earnings from tea increased by 3.2 per cent from KSh 122.2 billion in 2020 to KSh 126.1 billion in 2021. The effect of higher prices offered for marketed tea outweighed the effect of lower quantities, resulting in higher earnings in the year under review. Earnings from sugar cane increased by 12.6 per cent from KSh 25.2 billion in 2020 to KSh 28.4 billion in 2021. Earnings from pyrethrum flowers almost doubled from KSh 57.0 million in 2020 to KSh 100.0 million in 2021, attributed to increased production.

**7.5.** The value of marketed maize decreased by 16.7 per cent from KSh 8.2 billion in 2020 to KSh 6.9 billion in 2021 as a result of lower maize production in the review period. The value of marketed wheat increased from KSh 10.3 billion in 2020 to KSh 10.4 billion in 2021. The higher prices for wheat more than offset the effect of lower volumes of the crop. The value of horticultural exports increased by 5.0 per cent from KSh 150.2 billion in 2020 to KSh 157.7 billion in 2021, partly explained by higher quantities exported despite lower international prices during the year under review. The value of marketed milk increased by 48.2 per cent from 22.7 billion in 2020 to 33.7 billion in 2021, mostly due to better prices coupled with higher volumes of the produce delivered



**Earnings from coffee increased significantly from KSh 10.8 billion in 2020 to KSh 18.6 billion in 2021. This was attributed to the twin effect of increased quantity of marketed coffee and higher prices. Similarly, earnings from tea increased by 3.2 per cent from KSh 122.2 billion in 2020 to KSh 126.1 billion in 2021**

**Table 7.2: Recorded Marketed Agricultural Products at Current Prices, 2017-2021**

|                            |                                     |                  |                  |                  | <b>KSh Million</b> |                  |
|----------------------------|-------------------------------------|------------------|------------------|------------------|--------------------|------------------|
|                            |                                     | 2017             | 2018             | 2019             | 2020               | 2021*            |
| CEREALS-                   |                                     |                  |                  |                  |                    |                  |
|                            | Maize                               | 8,478.7          | 9,986.9          | 10,681.2         | 8,232.5            | 6,858.1          |
|                            | Wheat                               | 5,283.1          | 11,744.7         | 13,373.4         | 10,281.5           | 10,396.6         |
|                            | Others                              | 5,965.1          | 7,268.0          | 11,104.4         | 11,106.7           | 10,450.2         |
|                            | Total                               | 19,726.9         | 28,999.6         | 35,159.0         | 29,620.7           | 27,704.9         |
| HORTICULTURE <sup>1</sup>  |                                     |                  |                  |                  |                    |                  |
|                            | Cut flowers                         | 82,248.9         | 113,165.2        | 104,141.8        | 107,508.6          | 110,849.3        |
|                            | Vegetables                          | 24,064.6         | 27,685.2         | 27,247.8         | 24,228.4           | 28,460.7         |
|                            | Fruits                              | 9,009.3          | 12,831.1         | 13,189.0         | 18,426.9           | 18,382.9         |
|                            | Total                               | 115,322.8        | 153,681.5        | 144,578.6        | 150,163.9          | 157,692.9        |
| TEMPORARY INDUSTRIAL CROPS |                                     |                  |                  |                  |                    |                  |
|                            | Sugar-cane                          | 20,133.8         | 20,985.5         | 17,576.9         | 25,207.3           | 28,386.3         |
|                            | Pyrethrum                           | 19.2             | 28.5             | 68.5             | 57.0               | 100.0            |
|                            | Others                              | 1,689.7          | 1,510.4          | 1,223.2          | 1,591.7            | 1,275.6          |
|                            | Total                               | 21,842.7         | 22,524.4         | 18,868.6         | 26,856.0           | 29,761.9         |
| PERMANENT CROPS            |                                     |                  |                  |                  |                    |                  |
|                            | Coffee                              | 16,037.1         | 14,837.7         | 10,164.8         | 10,817.4           | 18,551.3         |
|                            | Tea                                 | 134,826.0        | 127,669.3        | 104,072.6        | 122,161.6          | 126,091.7        |
|                            | Sisal                               | 3,557.8          | 3,794.3          | 4,379.6          | 4,981.1            | 5,596.2          |
|                            | Total                               | 154,420.9        | 146,301.3        | 118,617.1        | 137,960.1          | 150,239.2        |
|                            | <b>TOTAL CROPS</b>                  | <b>311,313.3</b> | <b>351,506.8</b> | <b>317,223.3</b> | <b>344,600.8</b>   | <b>365,398.9</b> |
| LIVESTOCK AND PRODUCTS     |                                     |                  |                  |                  |                    |                  |
|                            | Cattle and Calves                   | 93,630.2         | 100,248.7        | 107,352.6        | 117,144.0          | 103,500.2        |
|                            | Goats and Sheep                     | 6,782.4          | 7,758.8          | 7,591.4          | 7,403.6            | 10,592.8         |
|                            | Milk                                | 23,047.9         | 23,026.7         | 20,576.2         | 22,721.5           | 33,680.3         |
|                            | Chicken and eggs                    | 10,674.8         | 12,069.2         | 9,227.8          | 9,478.8            | 9,690.7          |
|                            | Others                              | 3,634.9          | 4,040.5          | 3,661.3          | 3,957.7            | 4,155.7          |
|                            | <b>Total Livestock and Products</b> | <b>137,770.2</b> | <b>147,143.9</b> | <b>148,409.3</b> | <b>160,705.7</b>   | <b>161,619.6</b> |
|                            | <b>GRAND TOTAL</b>                  | <b>449,083.6</b> | <b>498,650.8</b> | <b>465,632.5</b> | <b>505,306.5</b>   | <b>527,018.5</b> |

\* Provisional.

<sup>1</sup>Data refers to fresh horticultural exports only

**7.6.** Trends in the quantum and price indices for selected agricultural commodities are shown in Table 7.3. The overall quantum index rose from 277.5 in 2020 to 284.0 in 2021 on account of increased production of horticulture. The growth was however hampered by decreased production of cereals, permanent crops and livestock and livestock products.

The overall price index rose from 269.4 in 2020 to 275.7 in 2021. The increase was mainly driven by increased prices of livestock and livestock products and permanent crops. The price index of horticultural products dropped by 20.5 per cent to 162.0 during the period under review.

**Table 7.3: Volume and Price Indices of Recorded Sales of Agricultural Production, 2017-2021**

|                            |         | Base: 2001=100 |              |              |              |              |
|----------------------------|---------|----------------|--------------|--------------|--------------|--------------|
| <b>QUANTUM<br/>INDICES</b> |         | <b>2017</b>    | <b>2018</b>  | <b>2019</b>  | <b>2020</b>  | <b>2021*</b> |
| Cereals                    |         | 73.0           | 118.8        | 133.3        | 108.7        | 93.6         |
| Temporary Industrial Crops |         | 117.1          | 129.4        | 111.2        | 174.2        | 190.1        |
| Horticulture <sup>1</sup>  |         | 323.8          | 332.6        | 338.4        | 302.8        | 407.7        |
| Permanent Crops            |         | 136.0          | 152.0        | 141.7        | 171.5        | 163.3        |
| Total crops                |         | 158.7          | 176.1        | 170.4        | 192.0        | 204.6        |
| Livestock and Products     |         | 321.3          | 348.2        | 359.3        | 367.1        | 343.3        |
| <b>TOTAL</b>               |         | <b>236.5</b>   | <b>260.1</b> | <b>262.7</b> | <b>277.5</b> | <b>284.0</b> |
| <b>PRICE<br/>INDICES</b>   | Cereals | 255.6          | 182.4        | 236.9        | 226.3        | 231.3        |
| Temporary Industrial Crops |         | 221.9          | 204.6        | 209.4        | 193.3        | 180.7        |
| Horticulture <sup>1</sup>  |         | 146.6          | 187.7        | 176.6        | 203.9        | 162.0        |
| Permanent Crops            |         | 261.9          | 222.2        | 189.6        | 198.2        | 237.3        |
| Total crops                |         | 246.8          | 195.7        | 183.2        | 189.9        | 202.6        |
| Livestock and Products     |         | 331.2          | 333.0        | 330.8        | 352.3        | 418.3        |
| <b>TOTAL</b>               |         | <b>273.4</b>   | <b>262.8</b> | <b>255.3</b> | <b>269.4</b> | <b>275.7</b> |

\* Provisional.

<sup>1</sup>Data refers to fresh horticultural exports only

**Table 7.4: Average Gross Commodity Prices<sup>1</sup> to Farmers, 2017-2021**

|                    | <b>Unit</b> | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>KSh per Unit<br/>2021*</b> |
|--------------------|-------------|-------------|-------------|-------------|-------------|-------------------------------|
| Coffee             | 100 Kg      | 47,547.71   | 40,286.41   | 30,227.22   | 44,304.00   | 65,864.93                     |
| Tea                | 100 Kg      | 30,652.18   | 25,896.47   | 22,681.04   | 21,414.38   | 23,444.40                     |
| Sisal              | 100 Kg      | 16,121.73   | 16,445.42   | 16,459.01   | 16,424.19   | 17,374.79                     |
| Sugar-cane         | Tonne       | 4,237.25    | 3,959.00    | 3,853.00    | 3,707.00    | 3,912.00                      |
| Seed Cotton        | 100 Kg      | 4,600.00    | 4,600.00    | 5,200.00    | 5,903.77    | 5,023.52                      |
| Maize              | 100 Kg      | 3,987.33    | 2,261.83    | 3,372.59    | 3,152.59    | 3,002.66                      |
| Wheat              | 100 Kg      | 3,197.99    | 3,555.50    | 3,833.53    | 3,662.00    | 4,297.91                      |
| Beef (third grade) | 100 Kg      | 38,090.90   | 38,122.72   | 42,221.67   | 42,509.52   | 44,839.60                     |
| Pig meat           | 100 Kg      | 23,172.37   | 23,191.73   | 23,295.92   | 25,933.31   | 25,995.09                     |
| Milk               | 100 Litres  | 3,897.30    | 3,530.00    | 3,000.00    | 3,320.50    | 4,200.00                      |

\* Provisional.

<sup>1</sup> Prices refer to the calendar year and may differ from those based on crop years. For tea and coffee, the prices are for black tea and coffee beans, respectively.

**7.8.** The performance of marketed agricultural outputs for large and small farms is shown in Table 7.5. Overall, the value of recorded sale of produce from large and small farms increased by 3.4 per cent to KSh 527.0 billion in 2021. The smallholder sector remains the main contributor to total market-

ed agricultural produce at 73.1 per cent. The value of sales for small farms increased by 3.1 per cent from KSh 373.6 billion in 2020 to KSh 385.3 billion in 2021. Similarly, the value of sales from large farms increased by 4.2 per cent from KSh 136.1 billion in 2020 to KSh 141.8 billion in 2021.

**Table 7.5: Recorded Sale of Produce from Large and Small Farms, 2017-2021**

| Year  | Large Farms <sup>1</sup> |                          | Small Farms |                          | Total       |                          | Percentage Share of Small Farms |
|-------|--------------------------|--------------------------|-------------|--------------------------|-------------|--------------------------|---------------------------------|
|       | KSh Million              | Annual Percentage change | KSh Million | Annual Percentage change | KSh Million | Annual Percentage change |                                 |
| 2017  | 119,905.3                | 7.4                      | 329,178.2   | 9.1                      | 449,083.6   | 8.7                      | 73.3                            |
| 2018  | 134,137.1                | 11.9                     | 364,513.7   | 10.7                     | 498,650.8   | 11.0                     | 73.1                            |
| 2019  | 124,980.8                | (6.8)                    | 341,365.6   | (6.4)                    | 466,346.4   | (6.5)                    | 73.2                            |
| 2020  | 136,094.4                | 8.9                      | 373,622.4   | 9.5                      | 509,716.8   | 9.3                      | 73.3                            |
| 2021* | 141,768.0                | 4.2                      | 385,250.5   | 3.1                      | 527,018.5   | 3.4                      | 73.1                            |

\* Provisional.

<sup>1</sup> 20 hectares and above

**7.9.** Trends in the quantum and price indices of agricultural inputs are reflected in Table 7.6. The overall quantum index for purchased inputs declined from 475.9 in 2020 to 381.3 in 2021, mainly due to lower inputs of fertilizer, seeds, fuel and power. The quantum index for manufactured feeds increased from

988.7 in 2020 to 1,029.6 in 2021. The overall price index increased from 167.7 in 2020 to 234.3 in 2021, attributable to higher prices for all inputs during the review period. The price index of fuel and power increased from 121.5 in 2020 to 176.9 in 2021.

**Table 7.6: Quantum and Price Indices for Purchased Inputs, 2017 – 2021**

|                        |              | 2017         | 2018         | 2019         | 2020         | 2021* | <i>Base: 2001=100</i> |
|------------------------|--------------|--------------|--------------|--------------|--------------|-------|-----------------------|
| <b>Quantum Indices</b> |              |              |              |              |              |       |                       |
| Fertilizers            | 307.7        | 262.8        | 284.8        | 310.4        | 224.9        |       |                       |
| Fuel and Power         | 145.9        | 152.5        | 155.4        | 101.0        | 86.8         |       |                       |
| Bags                   | 43.6         | 68.9         | 58.9         | 67.1         | 73.4         |       |                       |
| Manufactured Feeds     | 542.7        | 678.4        | 960.3        | 988.7        | 1,029.6      |       |                       |
| Certified Seeds        | 185.2        | 187.3        | 224.9        | 221.2        | 220.6        |       |                       |
| Other Material Inputs  | 157.2        | 156.7        | 188.1        | 176.9        | 153.7        |       |                       |
| Total Material Inputs  | 232.1        | 263.5        | 295.0        | 550.3        | 434.1        |       |                       |
| Service Inputs         | 316.4        | 326.5        | 342.8        | 319.6        | 332.8        |       |                       |
| <b>TOTAL INPUTS</b>    | <b>301.6</b> | <b>321.8</b> | <b>356.8</b> | <b>475.9</b> | <b>381.3</b> |       |                       |
| <b>Price Indices-</b>  |              |              |              |              |              |       |                       |
| Fertilizers            | 234.1        | 241.6        | 208.1        | 234.2        | 290.5        |       |                       |
| Fuel and Power         | 148.5        | 168.1        | 127.1        | 121.5        | 176.9        |       |                       |
| Bags                   | 259.4        | 263.9        | 228.4        | 227.9        | 240.9        |       |                       |
| Manufactured Feeds     | 279.2        | 240.6        | 255.9        | 177.3        | 198.1        |       |                       |
| Certified Seeds        | 175.9        | 163.3        | 172.2        | 221.5        | 275.7        |       |                       |
| Other Material Inputs  | 221.3        | 221.9        | 255.2        | 267.9        | 284.8        |       |                       |
| Total Material Inputs  | 212.6        | 194.9        | 191.9        | 146.3        | 199.6        |       |                       |
| Service Inputs         | 263.7        | 246.5        | 268.7        | 271.1        | 273.6        |       |                       |
| <b>TOTAL INPUTS</b>    | <b>208.9</b> | <b>196.0</b> | <b>192.1</b> | <b>167.7</b> | <b>234.3</b> |       |                       |

\* Provisional

**7.10.** The total value of inputs purchased rose from KSh 69.3 billion in 2020 to KSh 77.5 billion in 2021, representing an 11.8 per cent increase as shown in Table 7.7. The value of fertilizer purchased increased by 26.4 per cent to KSh 20.5 billion in 2021. During the year under review, value of manufactured feeds

rose by 24.5 per cent to KSh 12.3 billion. The value of fuel and power consumed in the agricultural sector decreased by 3.4 per cent to KSh 16.6 billion, while the value of certified seeds decreased to KSh 4,170 million in the review period.

**Table 7.7: Value of Purchased Agricultural Input<sup>1</sup>, 2017 – 2021**

|                               |                 | 2017            | 2018            | 2019            | 2020            | KSh Million<br>2021* |
|-------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|
| <b>MATERIAL INPUTS</b>        |                 |                 |                 |                 |                 |                      |
| Fertilizers                   | 17,612.1        | 14,950.4        | 15,697.9        | 16,207.8        | 20,480.3        |                      |
| Crop chemicals..              | 7,044.8         | 11,871.1        | 11,043.7        | 14,193.2        | 16,192.6        |                      |
| Livestock drugs and medicines | 4,610.7         | 2,296.7         | 2,888.8         | 1,947.5         | 2,000.7         |                      |
| Fuel and power                | 16,140.1        | 16,378.7        | 16,816.7        | 17,171.3        | 16,583.5        |                      |
| Bags                          | 135.2           | 139.3           | 127.3           | 131.9           | 138.5           |                      |
| Manufactured feeds            | 9,519.1         | 7,900.0         | 7,669.7         | 9,865.6         | 12,286.0        |                      |
| Certified Seeds               | 4,194.7         | 3,540.3         | 4,167.4         | 4,184.2         | 4,170.5         |                      |
| Other material inputs         | 1,560.0         | 1,751.5         | 1,787.8         | 1,956.6         | 2,070.5         |                      |
| Total                         | 60,816.7        | 58,828.2        | 60,199.4        | 65,657.9        | 73,922.6        |                      |
| <b>SERVICE INPUTS</b>         |                 |                 |                 |                 |                 |                      |
|                               | 3,793.4         | 3,578.7         | 3,652.8         | 3,648.2         | 3,577.9         |                      |
| <b>TOTAL INPUTS</b>           | <b>64,610.1</b> | <b>62,406.9</b> | <b>63,852.2</b> | <b>69,306.1</b> | <b>77,500.5</b> |                      |

<sup>\*</sup>Provisional<sup>1</sup>Excluding labour

**7.11. Agriculture Terms of Trade:** Price indices and terms of trade for agriculture from 2017 to 2021 are shown in Table 7.8. The general index of agricultural output prices expanded by 2.3 per cent from 176.5 in 2020 to 180.6 in 2021. The index of purchased consumer goods in rural areas rose by 6.1 per cent

from 580.3 in 2020 to 615.7 in 2021. Similarly, the index of purchased inputs rose from 167.7 in 2020 to 234.3 in 2021, representing a 39.7 per cent rise. In general, the agriculture terms of trade worsened by 4.7 percentage points from 47.2 per cent in 2020 to 42.5 per cent in 2021.

**Table 7.8: Price Indices and Terms of Trade for Agriculture, 2017– 2021**

|   | 2017         | 2018         | 2019         | 2020         | 2021*        | Base: 2001=100 |
|---|--------------|--------------|--------------|--------------|--------------|----------------|
| General Index of Agricultural Output Prices   | 180.1        | 173.8        | 167.3        | 176.5        | 180.6        |                |
| <b>PRICE PAID</b>                             |              |              |              |              |              |                |
| Purchased Inputs                              | 208.1        | 196.0        | 192.1        | 167.7        | 234.3        |                |
| Index of Purchased Consumer Goods-Rural Areas | 513.1        | 536.5        | 558.0        | 580.3        | 615.7        |                |
| <b>INDICES OF PRICES PAID</b>                 | <b>360.6</b> | <b>366.3</b> | <b>375.1</b> | <b>374.0</b> | <b>425.0</b> |                |
| Agricultural Sector Terms of Trade(%)         | 49.9         | 47.5         | 44.6         | 47.2         | 42.5         |                |

<sup>\*</sup> Provisional

**7.12. Crop production:** Table 7.9 shows estimates of production of selected food crops from 2017 to 2021. Production of maize decreased by 12.8 per cent from 42.1 million bags in 2020 to 36.7 million bags in 2021, mainly attributable to unfavorable weather conditions in 2021. Similarly, production

of beans decreased by 14.0 per cent to 7.4 million bags in 2021, while production of millet and sorghum decreased by 58.8 per cent and 57.1 per cent respectively to 0.7 million bags and 1.5 million bags in 2021. However, production of potatoes increased by 10.5 per cent to 2.1 million tonnes.

**Table 7.9: Estimated Production of Selected Agricultural Commodities, 2017– 2021**

| Crop     | Unit <sup>1</sup> | 2017 | 2018 | 2019 | 2020 | 2021* | Million |
|----------|-------------------|------|------|------|------|-------|---------|
| Maize    | Bags              | 35.4 | 44.6 | 44.0 | 42.1 | 36.7  |         |
| Beans    | Bags              | 9.4  | 9.3  | 8.3  | 8.6  | 7.4   |         |
| Potatoes | Tonnes            | 1.5  | 1.9  | 2.0  | 1.9  | 2.1   |         |
| Sorghum  | Bags              | 1.6  | 2.1  | 3.2  | 3.5  | 1.5   |         |
| Millet   | Bags              | 0.6  | 0.8  | 1.5  | 1.7  | 0.7   |         |

Source: Ministry of Agriculture, Livestock, Fisheries and Cooperatives

<sup>1</sup> Refers to a 90kg bag

**7.13.** The average retail market prices of selected food crops from 2017 to 2021 are shown in Table 7.10. The average retail prices of beans, finger millet and sorghum increased by 5.6, 9.3 and 4.2 per cent, respectively in March 2021 compared to March

2020. Similarly, in September 2021, prices of beans, finger millet, cabbages and tomatoes increased by 5.2, 19.6, 27.4, and 13.8, respectively, compared to the corresponding period in 2020.

**Table 7.10: Average Retail Market Prices of Selected Food Crops, 2017- 2021**

| CROP          | KSh per Kg |        |        |       |       |       |       |       |       |       |
|---------------|------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
|               | 2017       |        | 2018   |       | 2019  |       | 2020  |       | 2021  |       |
|               | Mar        | Sept   | Mar    | Sept  | Mar   | Sept  | Mar   | Sept  | Mar   | Sept  |
| Maize         | 48.02      | 43.86  | 41.32  | 30.87 | 31.89 | 41.49 | 43.60 | 41.40 | 37.4  | 39.7  |
| Beans         | 93.96      | 87.46  | 88.10  | 70.86 | 77.01 | 81.57 | 96.20 | 96.60 | 101.6 | 101.6 |
| Finger Millet | 108.59     | 105.20 | 107.69 | 89.73 | 92.54 | 86.54 | 93.10 | 94.30 | 101.8 | 112.8 |
| Sorghum       | 72.65      | 64.85  | 73.41  | 54.68 | 64.37 | 61.89 | 68.60 | 72.20 | 71.5  | 70.1  |
| Potatoes      | 55.96      | 30.67  | 41.54  | 55.51 | 43.35 | 67.88 | 48.40 | 46.90 | 42.6  | 35.7  |
| Cabbages      | 37.54      | 29.79  | 32.87  | 26.28 | 20.73 | 25.43 | 25.60 | 21.90 | 20.3  | 27.9  |
| Tomatoes      | 73.84      | 79.82  | 65.29  | 63.76 | 77.20 | 70.11 | 93.80 | 57.90 | 63.3  | 65.9  |
| Bananas       | 49.18      | 50.68  | 45.57  | 50.81 | 45.08 | 48.72 | 47.00 | 46.90 | 39.9  | 39.4  |

**7.14** Table 7.11 presents details on sale of selected crops to various marketing boards from 2017 to 2021. The quantity of pyrethrum delivered to marketing boards increased two-fold from 5.7 thousand tonnes in 2020 to 11.5 thousand tonnes in 2021. Similarly, the quantity of coffee, sugarcane, sisal and rice

paddy increased by 15.6, 14.7, 1.4 and 2.9 per cent, respectively, during the review period. In contrast, the volumes of maize, wheat, tea and cotton delivered to marketing boards decreased by 12.6, 13.8, 5.6 and 61.8 per cent, respectively, in 2021.

**Table 7.11: Sale of Selected Crops to Marketing Boards, 2017– 2021**

| Crop                           | Unit           | 2017  | 2018  | 2019  | 2020  | 2021* |
|--------------------------------|----------------|-------|-------|-------|-------|-------|
| Maize <sup>1</sup>             | 000 Tonnes     | 239.2 | 441.5 | 316.7 | 261.3 | 228.4 |
| Wheat <sup>2</sup>             | 000 Tonnes     | 156.9 | 330.3 | 348.8 | 280.8 | 241.9 |
| Coffee                         | 000 Tonnes     | 33.7  | 36.8  | 33.6  | 24.4  | 28.2  |
| Tea                            | 000 Tonnes     | 439.8 | 493.0 | 458.9 | 569.5 | 537.8 |
| Cotton <sup>2</sup>            | 000 Tonnes     | 11.9  | 12.0  | 3.0   | 3.4   | 1.3   |
| Sugarcane <sup>2</sup>         | Million Tonnes | 4.8   | 5.3   | 4.4   | 6.8   | 7.8   |
| Pyrethrum (extract equivalent) | Tonnes         | 3.0   | 3.8   | 7.4   | 5.7   | 11.5  |
| Sisal                          | 000 Tonnes     | 20.6  | 23.1  | 22.3  | 28.5  | 28.9  |
| Rice Paddy <sup>2,3</sup>      | 000 Tonnes     | 83.6  | 117.8 | 96.4  | 108.5 | 111.6 |

\* Provisional.

<sup>1</sup> Includes purchases by National Cereals and Produce Board and millers.

<sup>2</sup> Deliveries to factories/ginneries.

<sup>3</sup> Series revised based on KIHBS 2015/16 and CCIFSC 2020 data

**7.15. Wheat:** Information on the production and importation of wheat from 2017 to 2021 is presented in Table 7.12. Wheat production decreased by 39.4 per cent from 405.0 thousand tonnes in 2020 to 245.3 thousand tonnes in 2021. As a result, the amount of wheat imported increased by 6.4 thousand tonnes to 1.89 million tonnes in 2021.

**Table 7.12: Production and Imports of Wheat, 2017– 2021**

| Year | Production <sup>1</sup> | Imports | Total   |
|------|-------------------------|---------|---------|
| 2017 | 165.2                   | 1,855.0 | 2,020.2 |
| 2018 | 336.6                   | 1,736.7 | 2,073.3 |
| 2019 | 366.2                   | 1,998.9 | 2,365.1 |
| 2020 | 405.0                   | 1,882.5 | 2,287.5 |
| 2021 | 245.3                   | 1,888.9 | 2,134.2 |

\* Provisional.

<sup>1</sup>Includes retention for seed.

**7.16. Coffee:** Production declined by 6.5 per cent from 36.9 metric tonnes in 2019/20 to 34.5 metric tonnes in 2020/21 crop year as shown in Table 7.13. The estimated area under coffee also declined from 119.7 thousand hectares in 2019/2020 to 108.2 thousand hectares in 2020/21, despite new planting re-

ported in Trans Nzoia, Bungoma, Busia, Homa Bay and Siaya. New planting in traditional coffee growing regions were mainly replacements. In general, production has been on downward trend over the years, mainly due to uprooting of coffee trees to make way for investment in real estate.

**Table 7.13: Production, Area and Average Yield of Coffee by Type of Grower, 2016/2017-2020/21**

|                                 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | 2020/21* |
|---------------------------------|---------|---------|---------|---------|----------|
| <b>AREA (Ha) '000</b>           |         |         |         |         |          |
| Co-operatives                   | 88.8    | 89.6    | 94.1    | 94.8    | 83.2     |
| Estates                         | 25.9    | 26.1    | 25.5    | 24.9    | 25       |
| TOTAL                           | 114.7   | 115.7   | 119.6   | 119.7   | 108.2    |
| <b>PRODUCTION (Tonnes) '000</b> |         |         |         |         |          |
| Co-operatives                   | 24.5    | 30.4    | 30.9    | 25.9    | 22.8     |
| Estates                         | 14.2    | 11      | 14.1    | 11      | 11.7     |
| TOTAL                           | 38.7    | 41.4    | 45.0    | 36.9    | 34.5     |
| <b>AVERAGE YIELD (Kg/Ha.)</b>   |         |         |         |         |          |
| Co-operatives                   | 279     | 344     | 348     | 289     | 274.6    |
| Estates                         | 551     | 426     | 543     | 421     | 466.4    |

Source: Agriculture and Food Authority, Coffee Directorate

\* Provisional.

Note:

The coffee year is from October to September

Yield is obtained by dividing current production by previous acreage three years ago

**7.17. Tea:** Table 7.14 shows production, area and average yield of tea by type of grower from 2017 to 2021. The area under tea increased to 249.8 thousand hectares in 2021 from 236.4 thousand hectares during the year 2020. In 2021, tea production decreased by 5.6 per cent to 537.8 thousand tons from 569.5 thousand tonnes in 2020, due to unfavourable weather conditions in 2021. The smallholder

sub-sector registered a decrease of 11.7 per cent in production to 284.8 thousand tonnes while the output from the estate sub-sector recorded an increase of 2.5 per cent to 253.0 thousand tons. Consequently, the average yield for the estate sub-sector increased from 2,695.4 Kg/Ha to 2,735.1 Kg/Ha while for the smallholder sub-sector decreased from 2,286.3 Kg/Ha to 2,008.5 Kg/Ha.

**Table 7.14: Production, Area and Average Yield of Tea by Type of Grower, 2017-2021**

|                                    | 2017    | 2018    | 2019    | 2020    | 2021*   |
|------------------------------------|---------|---------|---------|---------|---------|
| AREA ('000 Ha)                     |         |         |         |         |         |
| Smallholders                       | 141.1   | 141.8   | 141.6   | 141.6   | 141.7   |
| Estates                            | 91.6    | 92.5    | 94.8    | 94.8    | 108.1   |
| TOTAL PRODUCTION ('000 Tonnes)     | 232.7   | 234.3   | 236.4   | 236.4   | 249.8   |
| Smallholders                       | 246.1   | 272.5   | 258.1   | 322.6   | 284.8   |
| Estates                            | 193.7   | 220.5   | 200.7   | 246.9   | 253.0   |
| TOTAL                              | 439.8   | 493.0   | 458.8   | 569.5   | 537.8   |
| AVERAGE YIELD (Kg/Ha) <sup>1</sup> |         |         |         |         |         |
| Smallholders                       | 1,913.7 | 2,030.6 | 1,866.2 | 2,286.3 | 2,008.5 |
| Estates                            | 2,603.5 | 2,932.2 | 2,502.5 | 2,695.4 | 2,735.1 |

Source: Agriculture and Food Authority, Tea Directorate

\* Provisional

<sup>1</sup> Obtained by dividing current production by the area four years ago

**7.18: Sugarcane:** Table 7.15 shows area planted, area harvested, production and average yield of sugarcane from 2017 to 2021. The area under cane production increased by 11.2 per cent to 223.0 thousand hectares in 2021 from 200.5 thousand hectares in 2020. The area harvested increased by 2.9 per cent from 89.8 thousand hectares in 2020 to 92.4 thousand hectares in 2021. Similarly, total

cane production increased by 14.3 per cent from 6.8 million tonnes in 2020 to 7.8 million tonnes in 2021. This was attributed to improved availability of mature cane for harvesting brought about by favourable weather conditions in cane growing areas over the year. Consequently, the average yield increased by 16.4 per cent from 61.6 tonnes per hectare in 2020 to 72.0 tonnes per hectare in 2021.

**Table 7.15: Area Planted, Area Harvested, Production and Average Yield of Sugarcane, 2017- 2021**

|                                      | Unit                     | 2017    | 2018    | 2019    | 2020    | 2021*   |
|--------------------------------------|--------------------------|---------|---------|---------|---------|---------|
| Area under cane                      | ('000 Ha)                | 191.2   | 202.4   | 197.4   | 200.5   | 223.0   |
| Area harvested                       | ('000 Ha) <sup>1</sup>   | 67.7    | 73.1    | 71.9    | 89.8    | 92.4    |
| Total Production                     | ('000 Tonnes)            | 4,751.6 | 5,262.2 | 4,606.1 | 6,810.9 | 7,783.3 |
| Production by non-contracted farmers | ('000 Tonnes)            | 1,004.3 | 1,233.1 | 938.8   | 1,264.2 | 1,133.3 |
| Average yield                        | (Tonnes/Ha) <sup>2</sup> | 55.3    | 55.1    | 51.0    | 61.6    | 72.0    |

Source: Agriculture and Food Authority, Sugar Directorate

\* Provisional

<sup>1</sup> Excludes area harvested by non-contracted farmers

<sup>2</sup> Yield = (Total production - production by non-contracted farmers)/area harvested

**7.19.** Table 7.16 and Figure 7.3 show domestic sugar production and imports for the period 2017 to 2021. During the review period, domestic sugar production increased by 16.0 per cent to 700.2 thousand tonnes in 2021, as a result of increased harvest and enhanced investments by Government and private sector players. Imports declined by 3.6 per cent to 426.3 thousand tonnes in 2021.

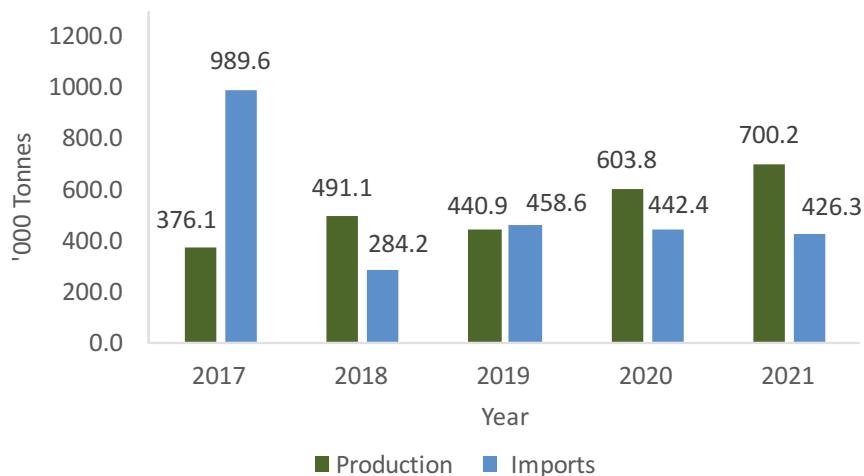
**Table 7.16: Production, Imports and Exports of Sugar, 2017-2021**

| Year  | Production | Imports | Exports |
|-------|------------|---------|---------|
| 2017  | 376.1      | 989.6   | 0.4     |
| 2018  | 491.1      | 284.2   | 2.0     |
| 2019  | 440.9      | 458.6   | 0.8     |
| 2020  | 603.8      | 442.4   | 2.4     |
| 2021* | 700.2      | 426.3   | 0.1     |

Source: Agriculture and Food Authority, Sugar Directorate

\*Provisional

**Figure 7.2: Sugar Production and Imports, 2017-2021**



**7.20. Horticulture:** Table 7.17 presents volume and earnings from exports of fresh horticultural produce from 2017 to 2021. During the year under review, earnings from exports of horticulture exports increased by 5.0 per cent to KSh 157.7 billion in 2021. The volume of horticulture exports increased by 29.3 per cent to 405.5 thousand tonnes in 2021. Export earnings from cut flowers increased by 3.1 per cent to KSh 110.8 billion in 2021, and accounted for 70.3 per cent of total fresh horticulture export

earnings. The increase in export earnings from cut flowers was attributed to better prices offered in the export market in the review period. In 2021, earnings from export of fruits was KSh 18.4 billion accounting for 11.7 per cent of fresh horticultural export earnings. During the period under review, the value of vegetable exports increased by 17.8 per cent to KSh 28.5 billion, accounting for 18.1 per cent of total horticultural export earnings.

**Table 7.17: Exports of Fresh Horticultural Produce<sup>1</sup>, 2017-2021**

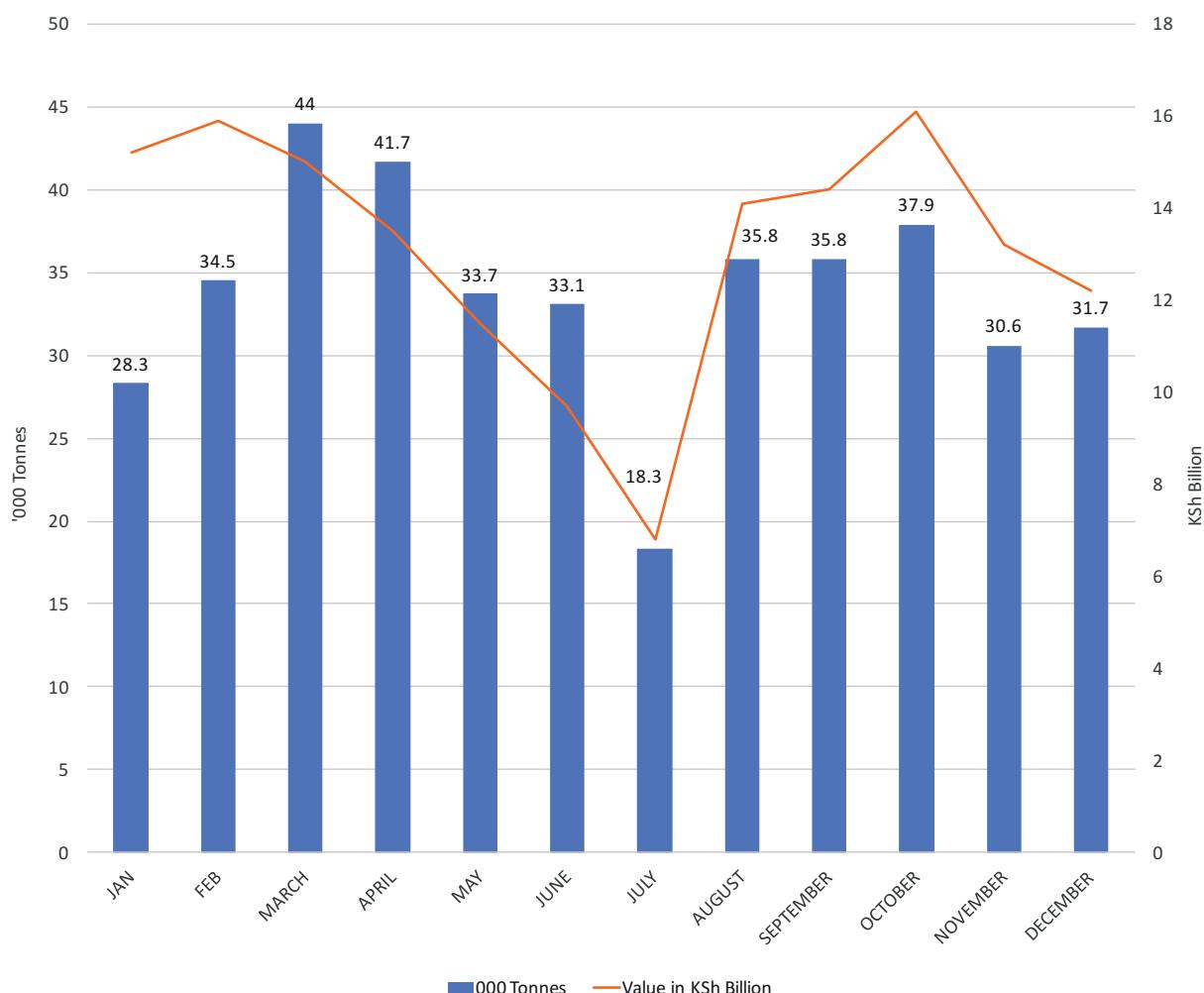
| Year  | Cut Flowers |             | Fruits     |             | Vegetables |             | Total       |             |
|-------|-------------|-------------|------------|-------------|------------|-------------|-------------|-------------|
|       | Volume      | Value       | Volume     | Value       | Volume     | Value       | Volume      | Value       |
|       | 000 Tonnes  | KSh billion | 000 Tonnes | KSh billion | 000 Tonnes | KSh billion | '000 Tonnes | KSh billion |
| 2017  | 160.0       | 82.2        | 56.9       | 9.0         | 87.2       | 24.1        | 304.1       | 115.3       |
| 2018  | 161.2       | 113.2       | 75.6       | 12.8        | 85.8       | 27.7        | 322.6       | 153.7       |
| 2019  | 173.7       | 104.1       | 81.9       | 13.2        | 72.7       | 27.2        | 328.3       | 144.6       |
| 2020  | 146.0       | 107.5       | 105.1      | 18.4        | 62.6       | 24.2        | 313.6       | 150.2       |
| 2021* | 210.1       | 110.8       | 117.3      | 18.4        | 78.1       | 28.5        | 405.5       | 157.7       |

Source: Agriculture and Food Authority, Horticulture Directorate

\* Provisional.

<sup>1</sup> Excludes exports of processed horticultural produce and nuts.

**7.21.** Monthly quantity and value of fresh horticultural exports for 2021 are depicted in Figure 7.3. The highest quantities of fresh horticultural exports amounting to 44.0 thousand tonnes were recorded in the month of March 2021. Export earnings from horticulture were highest in October 2021 and lowest in July 2021.

**Figure 7.3: Monthly Performance of Fresh Horticultural Exports, 2021**

**7.22 Irrigation:** Table 7.18 presents data on the performance of various irrigation schemes across the country from 2016/17 to 2020/21. During the review period, area cropped increased by 1.3 per cent to 32.0 thousand hectares, while the number of plot holders increased by 38.9 per cent to 23.7 thousand in 2020/21. Paddy production rose by 2.8 per cent to 186.0 thousand tonnes in 2020/21, with production from Mwea Irrigation Scheme accounting for 80.0 per cent of total production. Paddy production in

Mwea irrigation scheme increased by 4.8 per cent, largely attributed to efficient water distribution and good crop husbandry during the review period. There were notable improvements in paddy production from Bunyala and Bura schemes. The value of paddy output from all schemes increased from KSh 10.5 billion in 2019/20 to KSh 11.1 billion in 2020/21, while payment to plot-holders increased from KSh 5.8 billion in 2019/20 to KSh 6.6 billion in 2020/21.

**Table 7.18: Rice Paddy Production of Irrigation Schemes, 2016/17-2020/21**

|                                |                          | Unit          | 2016/17       | 2017/18        | 2018/19        | 2019/20        | 2020/21*       |
|--------------------------------|--------------------------|---------------|---------------|----------------|----------------|----------------|----------------|
| <b>MWEA</b>                    |                          |               |               |                |                |                |                |
|                                | Area cropped             | Hectares      | 17,146        | 23,076         | 25,710         | 25,911         | 25,026         |
|                                | Plot-holders             | Number        | 7,178         | 7,684          | 7,684          | 7,684          | 9,504          |
|                                | Gross value of output    | KSh Million   | 3,558         | 6,122          | 8,748          | 9,017          | 9,664          |
|                                | Payments to plot-holders | KSh Million   | 1,816         | 3,522          | 5,759          | 5,177          | 6,113          |
| <b>ALL SCHEME AREAS</b>        |                          |               |               |                |                |                |                |
|                                | Area cropped             | Hectares      | 21,949        | 27,383         | 32,324         | 31,591         | 32,028         |
|                                | Plot-holders             | Number        | 16,326        | 14,028         | 15,688         | 17,020         | 23,634         |
|                                | Gross value of output    | KSh Million   | 4,395         | 6,964          | 10,109         | 10,457         | 11,130         |
|                                | Payments to plot-holder  | KSh Million   | 2,169         | 3,849          | 6,374          | 5,801          | 6,602          |
| <b>PADDY PRODUCED - Tonnes</b> |                          |               |               |                |                |                |                |
|                                | Mwea                     | Tonnes        | 59,291        | 89,960         | 120,996        | 141,920        | 148,670        |
|                                | Ahero                    | Tonnes        | 7,752         | 4,596          | 8,473          | 9,600          | 8,338          |
|                                | W.Kano                   | Tonnes        | 4,083         | 4,527          | 9,423          | 5,704          | 3,169          |
|                                | Bunyala                  | Tonnes        | 3,632         | 3,741          | 3,686          | 3,492          | 5,751          |
|                                | South West Kano.         | Tonnes        | 6,440         | 7,386          | 8,184          | 8,062          | 8,184          |
|                                | North Kano.              | Tonnes        | -             | 1,921          | 3,040          | 3,584          | 2,800          |
|                                | Bura                     | Tonnes        | -             | 474            | 1,083          | 1,728          | 3,670          |
|                                | Tana                     | Tonnes        | -             | -              | 900            | 1,200          | 658            |
|                                | Lower Kinja..            | Tonnes        | -             | -              | 4,800          | 5,600          | 4,760          |
|                                | <b>TOTAL PADDY</b>       | <b>Tonnes</b> | <b>81,198</b> | <b>112,605</b> | <b>160,585</b> | <b>180,890</b> | <b>186,000</b> |

Source: National Irrigation Authority

\* Provisional

**7.23. Pyrethrum:** Table 7.19 shows production and earnings from dry pyrethrum flowers and pyrethrum extract from 2017 to 2021. During the period under review, deliveries of dry pyrethrum flowers to processors was 501.0 metric tonnes, an increase of 76.4 per cent from 284.9 metric tonnes recorded in 2020. The increase was attributed to acreage expansion by the new licensed processors and government support in the purchase and distribution of seedlings. Similarly, the average price paid per kilogramme to farmers for the produce increased by 6.5 per cent from KSh

200.0 in 2020 to KSh 213.0 in 2021. Consequently, the value of dry pyrethrum flowers almost doubled from KSh 57.0 million in 2020 to KSh 106.7 million during the review period. Production of pyrethrum extract doubled to 11.5 tonnes in 2021 while the average price paid increased to KSh 25.0 thousand per kilogramme of the extract in 2021. Subsequently, earnings from the sale of pyrethrum extract more than doubled to KSh 287.5 million during the review period.

**Table 7.19: Pyrethrum Flowers and Pyrethrum Extract Production, Prices and Value, 2017-2021**

|                                | Unit        | 2017      | 2018      | 2019      | 2020      | 2021*     |
|--------------------------------|-------------|-----------|-----------|-----------|-----------|-----------|
| <b>Pyrethrum flowers (dry)</b> |             |           |           |           |           |           |
| Production                     | Tonnes      | 147.6     | 187.9     | 314.6     | 284.9     | 501.0     |
| Price                          | KSh/ Kg     | 130.00    | 151.91    | 217.77    | 200.00    | 213.00    |
| Value                          | KSh million | 19.2      | 28.5      | 68.5      | 57.0      | 106.7     |
| <b>Pyrethrum Extract</b>       |             |           |           |           |           |           |
| Production                     | Tonnes      | 3.0       | 3.8       | 7.4       | 5.7       | 11.5      |
| Price                          | KSh/ Kg     | 24,990.35 | 24,980.19 | 24,999.26 | 23,151.35 | 25,000.00 |
| Value                          | KSh million | 73.8      | 94.0      | 185.3     | 131.9     | 287.5     |

Source AFA, Ministry of Agriculture, Livestock, Fisheries and Cooperatives

\* Provisional

**7.24. Dairy Produce:** Table 7.20 presents details on livestock slaughtered and dairy products for 2017 to 2021. The quantity of recorded milk production increased by 17.2 per cent from 684.4 million litres in 2020 to 801.9 million litres in 2021. Production of processed milk and cream also increased to 510.5 million litres from 457.9 million litres over the same period. Similarly, the quantities of processed butter and ghee, and cheese increased by 7.1 per cent and 11.6 per cent to 1,025.8 tonnes and 176.4 tonnes, respectively, in 2021.

**7.25. Livestock slaughtered:** During the period under review, the number of cattle and calves slaughtered increased from 1,953.7 thousand heads in 2020 to 2,004.9 thousand heads. However, the number of sheep and goats slaughtered decreased by 21.3 per cent from 12,040.2 thousand heads in 2020 to 9,478.0 thousand heads in 2021. The observed lower goat and sheep slaughtered was partly attributed to low level of festivities and gatherings due to restrictions imposed to contain COVID-19 pandemic. Similarly, the number of pigs slaughtered declined by 10.4 per cent from 396.7 thousand heads recorded in 2020 to 355.5 thousand heads in 2021.

**Table 7.20: Livestock Slaughtered and Dairy Products<sup>1</sup>, 2017-2021**

|                                       | Unit       | 2017    | 2018     | 2019     | 2020     | 2021*   |
|---------------------------------------|------------|---------|----------|----------|----------|---------|
| Recorded <sup>2</sup> Milk Production | Mn. Litres | 591.4   | 652.3    | 685.9    | 684.4    | 801.9   |
| <b>Milk Processed</b>                 |            |         |          |          |          |         |
| Milk and cream                        | Mn. Litres | 410.6   | 468.4    | 491.8    | 457.9    | 510.5   |
| Butter and ghee                       | Tonnes     | 1,127.3 | 1,249.4  | 1,013.4  | 957.6    | 1,025.8 |
| Cheese                                | Tonnes     | 338.3   | 384.3    | 305.4    | 158.0    | 176.4   |
| <b>Livestock Slaughtered</b>          |            |         |          |          |          |         |
| Cattle and Calves                     | '000 Head  | 2,590.0 | 2,781.7  | 3,080.8  | 1,953.7  | 2,004.9 |
| Sheep and Goats                       | '000 Head  | 9,206.7 | 10,247.6 | 11,302.7 | 12,040.2 | 9,478.0 |
| Pigs                                  | '000 Head  | 360.1   | 388.2    | 413.5    | 396.7    | 355.5   |

Source: Kenya National Bureau of Statistics, Kenya Dairy Board, State Department of Livestock

\* Provisional

<sup>1</sup> For selected types of livestock<sup>2</sup> For Milk marketed through formal channels

**7.26. Agricultural Training:** Table 7.21 shows enrolment in agricultural courses at various public institutions for the period 2017 to 2021. The sector recorded an overall decrease in enrolment in agricultural courses with enrolment at the degree level decreasing by 8.3 per cent to 18,668 in 2021. There



**Most students opted to join Technical and Vocational Education and Training (TVET) institutions where they get government sponsorship and loans from HELB**

were no students enrolled in agricultural diploma courses at Egerton University during the period under review as the university did not get students from the Kenya Universities and Colleges Central Placement Service (KUCCPS). Most students opted to join Technical and Vocational Education and Training (TVET) institutions where they get government sponsorship and loans from HELB. Bukura Institute of Agriculture recorded an increase of 2.0 per cent in the number of students enrolled in diploma courses in 2020 to 1,477 in 2021. Under the certificate category, enrolment at Naivasha Dairy Training Institute more than doubled from 146 students in 2019 to 329 students in 2021, following missed admissions in 2020.

**Table 7.21: Enrolment in Agricultural Training Courses, 2017-2021**

|  | 2017   |        |        |        |        |        | 2018   |        |        |        |        |        | 2019   |        |        |      |        |       | 2020 |        |       |      |        |       | 2021* |  |  |  |  |  |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|-------|------|--------|-------|------|--------|-------|-------|--|--|--|--|--|
|  | Male   | Female | Total  | Male | Female | Total | Male | Female | Total | Male | Female | Total |       |  |  |  |  |  |
| <b>DEGREE LEVEL -Public Universities</b>           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| All Universities                                   | 14,835 | 9,386  | 24,221 | 10,715 | 7,450  | 18,165 | 10,626 | 6,766  | 17,392 | 12,913 | 7,443  | 20,356 | 11,523 | 7,145  | 18,668 |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Egerton  | 116    | 80     | 196    | 25     | 6      | 31     | 37     | 10     | 47     | 169    | 64     | 233    | -      | -      | -      |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| <b>DIPLOMA LEVEL_MoA&amp;F&amp;C</b>               |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Bukura Institute of Agriculture                    | 791    | 406    | 1,197  | 887    | 498    | 1,385  | 1,079  | 672    | 1,751  | 891    | 557    | 1,448  | 813    | 664    | 1,477  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Naivasha Dairy Training Institute                  | 27     | 13     | 40     | 23     | 18     | 41     | 19     | 20     | 39     | -      | -      | -      | -      | -      | -      |      |        |       |      |        |       | 38   | 31     | 69    |       |  |  |  |  |  |
| Total  | 818    | 419    | 1,237  | 910    | 516    | 1,426  | 1,098  | 692    | 1,790  | 891    | 557    | 1,448  | 851    | 695    | 1,546  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| <b>DIPLOMA - Animal Health Training Institutes</b> |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Kabete   | 101    | 19     | 120    | 81     | 18     | 99     | 96     | 38     | 134    | -      | -      | -      | -      | -      | -      |      |        |       |      |        |       | 104  | 42     | 146   |       |  |  |  |  |  |
| Nidomba <sup>1</sup>                               | 41     | 9      | 50     | 48     | 13     | 61     | 55     | 12     | 67     | -      | -      | -      | -      | -      | -      |      |        |       |      |        |       | 107  | 40     | 147   |       |  |  |  |  |  |
| Total  | 142    | 28     | 170    | 129    | 31     | 160    | 151    | 50     | 201    | -      | -      | -      | -      | -      | -      |      |        |       |      |        |       | 211  | 82     | 293   |       |  |  |  |  |  |
| <b>CERTIFICATE LEVEL</b>                           |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Naivasha Dairy Training Institute                  | 54     | 65     | 119    | 64     | 68     | 132    | 84     | 62     | 146    | -      | -      | -      | -      | -      | -      |      |        |       |      |        |       | 161  | 168    | 329   |       |  |  |  |  |  |
| Animal Health Training Institutes-                 |        |        |        |        |        |        |        |        |        | -      | -      | -      | -      | -      | -      |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Kabete   | 35     | 18     | 53     | 70     | 20     | 90     | 77     | 28     | 105    | -      | -      | -      | -      | -      | -      |      |        |       |      |        |       | 79   | 31     | 110   |       |  |  |  |  |  |
| Nyahururu  | 46     | 28     | 74     | 45     | 26     | 71     | 50     | 28     | 78     | -      | -      | -      | -      | -      | -      |      |        |       |      |        |       | 129  | 66     | 195   |       |  |  |  |  |  |

**Table 7.21: Enrolment in Agricultural Training Courses, 2017-2021 (Continued)**

|                                      | 2017 |        |       |      |        |       | 2018 |        |       |      |        |       | 2019 |        |       |      |        |       | 2020 |        |       |      |        |       | 2021* |  |  |  |  |  |
|--------------------------------------|------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|------|--------|-------|-------|--|--|--|--|--|
|                                      | Male | Female | Total |       |  |  |  |  |  |
| Ndomba <sup>1</sup>                  | 95   | 25     | 120   | 91   | 39     | 130   | 73   | 35     | 108   | ..   | ..     | ..    | ..   | ..     | ..    | 158  | 57     | 215   |      |        |       |      |        |       |       |  |  |  |  |  |
| Total                                | 230  | 136    | 366   | 270  | 153    | 423   | 284  | 153    | 437   | -    | -      | -     | -    | -      | -     | 527  | 322    | 849   |      |        |       |      |        |       |       |  |  |  |  |  |
| <b>SHORT-TERM VOCATIONAL COURSES</b> |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Naivasha Dairy Training School       | 201  | 84     | 285   | 128  | 73     | 201   | 48   | 45     | 93    | 1    | 1      | 1     | 2    | 153    | 150   | 303  |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Athi River M.T. School               | 41   | 23     | 64    | 47   | 22     | 69    | 72   | 21     | 93    | ..   | ..     | ..    | ..   | ..     | ..    | 67   | 27     | 94    |      |        |       |      |        |       |       |  |  |  |  |  |
| Ndomba                               | 75   | 11     | 86    | 70   | 24     | 94    | 88   | 25     | 113   | 26   | 19     | 45    | 53   | 16     | 69    |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |

### Societies and Unions in the Agricultural Sector

**7.27.** The number of registered agricultural societies and unions from 2017 to 2021 is presented in Table 7.22. There was an increase of 1.4 per cent in the number of societies and unions to 25,984 in 2021. Agricultural societies engaged in coffee and sugarcane activities increased by 1.7 per cent and

1.4 per cent to 673 and 217, respectively, during the review period. Similarly, the number of societies in the dairy sector increased by 4.5 per cent to 670 in 2021, while those in fisheries increased by 2.5 per cent during the review period.

**Table 7.22: Number of Societies and Unions, 2017 – 2021**

| TYPE OF SOCIETY                  | Number        |               |               |               |               |
|----------------------------------|---------------|---------------|---------------|---------------|---------------|
|                                  | 2017          | 2018          | 2019          | 2020          | 2021*         |
| <b>Agricultural:</b>             |               |               |               |               |               |
| Coffee                           | 616           | 651           | 659           | 662           | 673           |
| Sugar-cane                       | 206           | 211           | 211           | 214           | 217           |
| Pyrethrum                        | 147           | 149           | 150           | 152           | 152           |
| Cotton                           | 62            | 62            | 62            | 62            | 66            |
| Dairy                            | 518           | 623           | 639           | 641           | 670           |
| Multi-purpose                    | 2,289         | 2,364         | 2,399         | 2,729         | 2,854         |
| Farm Purchase                    | 118           | 122           | 126           | 126           | 126           |
| Fisheries                        | 111           | 116           | 118           | 118           | 121           |
| Other Agricultural Societies     | 1,843         | 1,916         | 1,983         | 2,757         | 2,850         |
| Sub- Total                       | 5,910         | 6,214         | 6,347         | 7,461         | 7,729         |
| <b>Non-Agricultural:</b>         |               |               |               |               |               |
| Savings and Credit               | 10,029        | 10,231        | 10,463        | 11,723        | 11,798        |
| Other Non-Agricultural Societies | 3,913         | 4,002         | 4,091         | 6,342         | 6,355         |
| Sub- Total                       | 13,942        | 14,233        | 14,554        | 18,065        | 18,153        |
| Unions (Agricultural)            | 99            | 100           | 101           | 101           | 102           |
| <b>GRAND TOTAL</b>               | <b>19,951</b> | <b>20,547</b> | <b>21,002</b> | <b>25,627</b> | <b>25,984</b> |

Source: Ministry of Agriculture, Livestock, Fisheries and Cooperatives, State Department of Cooperatives  
 \* Provisional

### **Food Balance Sheet**

**7.29.** Quality data on food and agriculture is necessary to understand the food supply situation in a country, track progress against established development goals, and inform future evidence-based policy decisions. Food Balance Sheets (FBS) provide a framework that combines all aspects of a nation's food supply and demand, to enable the validation of the underlying estimates as well as carrying out a complete analysis of the individual elements. The 2021 FBS presents a comprehensive picture of the pattern of Kenya's food supply. This is achieved within an accounting framework, where all potential sources of supply and utilization of a given food product are described.

### **FBS Indicators**

**7.30.** Table 7.23 and Figure 7.4 present the food balance sheet indicators for the period 2017 to 2021. Total per caput daily caloric supply decreased by 6.0 per cent from 2,232.5 thousand calories in 2020 to 2,098.9 thousand calories. This was mainly due to a decline in vegetal products from 2,021.4 thousand calories in 2020 to 1,879.7 thousand calories in 2021. During the reference period, per caput daily caloric supply from vegetal products accounted for 89.6 per cent of total supply. Despite the decline in total per caput daily supply of calories, the supply from cereals

increased by 1.0 per cent to 1,042.1 thousand calories, while supply from animal products increased by 3.8 per cent to 219.2 thousand calories in 2021. The increases were as a result of a rise in caloric supply from rice and milk for cereals and animal products, respectively, in the review period. Per caput daily caloric supply from proteins declined from 71.1 grams in 2020 to 62.1 grams in 2021. Conversely, per caput daily caloric supply from fats increased by 13.7 per cent to 33.3 grams during the review period.

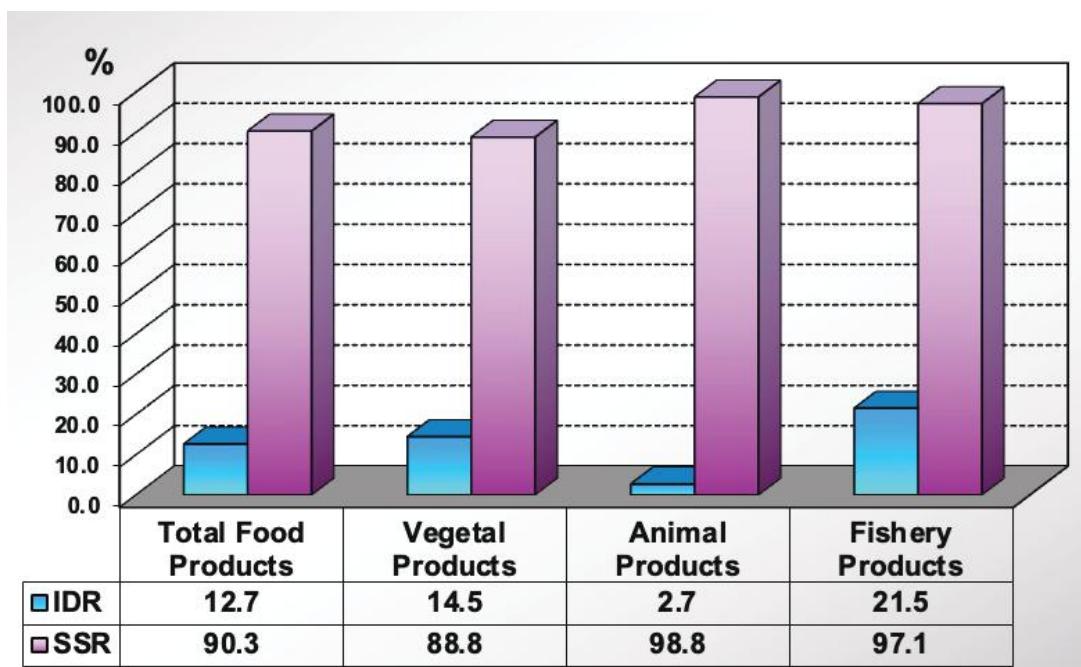
**7.31.** The overall Self-Sufficiency Ratio (SSR) increased from 88.6 per cent in 2020 to 90.3 per cent in 2021. This was occasioned by increase in production of fishery products. Over the same period, the total Import Dependency Ratio (IDR) decreased to 12.7 per cent compared to 14.5 per cent registered in 2020.



**The 2021 FBS presents a comprehensive picture of the pattern of Kenya's food supply. This is achieved within an accounting framework, where all potential sources of supply and utilization of a given food product are described**

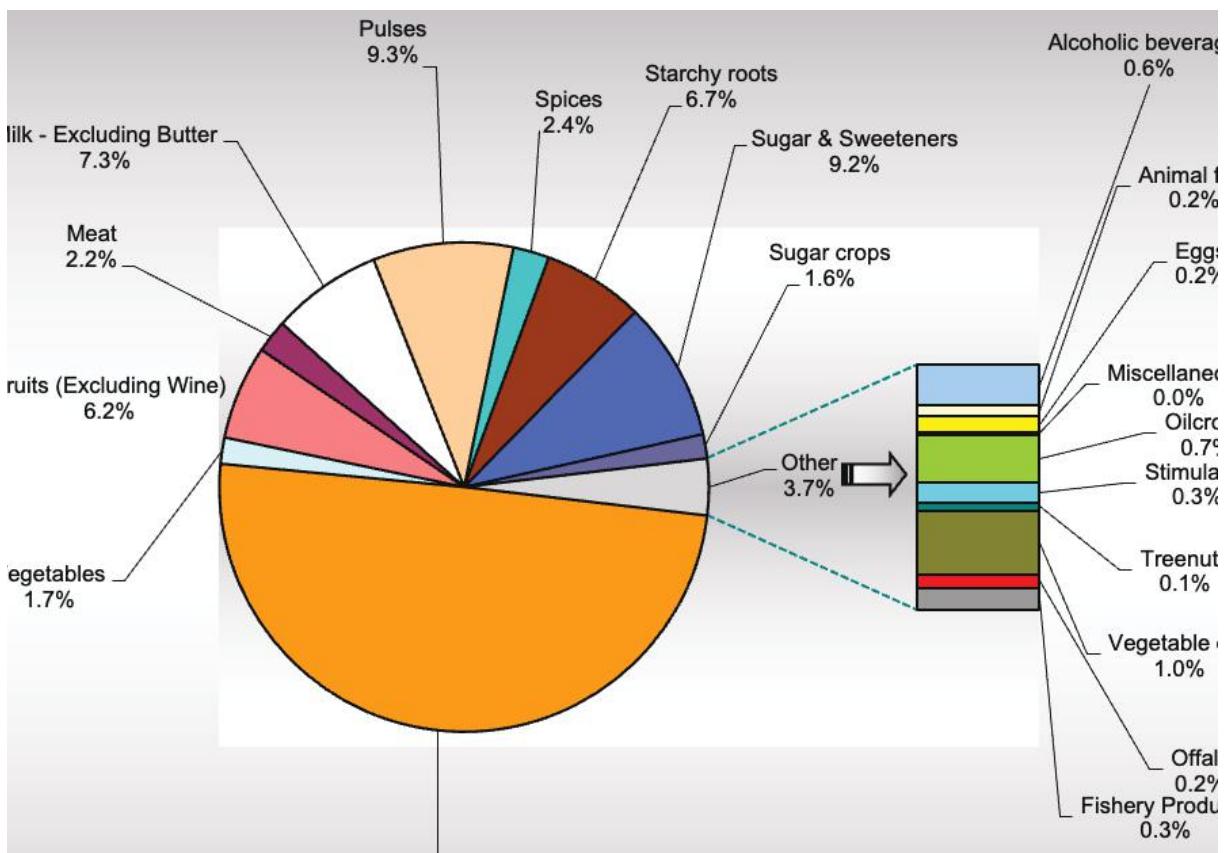
**Table 7.23: Food Balance Sheet, 2017-2021**

| Indicator                      |                                  | 2017    | 2018    | 2019    | 2020    | 2021*   |
|--------------------------------|----------------------------------|---------|---------|---------|---------|---------|
| Per Caput Daily Supply         | Calories - '000                  | 2,130.2 | 2,243.0 | 2,171.7 | 2,232.5 | 2,098.9 |
|                                | Proteins - Grams                 | 67.1    | 68.1    | 61.9    | 71.1    | 62.1    |
|                                | Fats - Grams                     | 47.3    | 46.3    | 46.2    | 29.3    | 33.3    |
| SSR - Per Cent                 | Total                            | 87.2    | 89.1    | 87.8    | 88.6    | 90.3    |
|                                | Vegetal Products                 | 84.5    | 87.3    | 86.5    | 87.2    | 88.8    |
|                                | Animal Products <sup>1</sup>     | 98.7    | 97.6    | 95.3    | 97.3    | 98.8    |
|                                | Fishery Products                 | 82.2    | 77.4    | 79.9    | 81.2    | 97.1    |
| IDR - Per Cent                 | Total                            | 18.5    | 15.4    | 16.5    | 14.5    | 12.7    |
|                                | Vegetal Products                 | 22.5    | 18.1    | 18.6    | 16.1    | 14.5    |
|                                | Animal Products <sup>1</sup>     | 1.5     | 2.9     | 5.3     | 4.0     | 2.7     |
|                                | Fishery Products                 | 27.6    | 27.0    | 25.2    | 23.3    | 21.5    |
| Per Caput Caloric Daily Supply | Vegetal Products - '000 calories | 1,863.9 | 1,982.4 | 1,948.5 | 2,021.4 | 1,879.7 |
|                                | Of which Cereals - '000 calories | 953.4   | 1,033.2 | 1,014.4 | 1,031.3 | 1,042.1 |
|                                | Animal Products - '000 calories  | 266.3   | 260.6   | 223.2   | 211.1   | 219.2   |

<sup>\*</sup>Provisional<sup>1</sup>Contains Fishery Products**Figure 7.4: Import Dependency and Self - Sufficiency Ratios, 2021**

**7.32.** Cereals accounted for almost half of total caloric supply as shown in Figure 7.5, mainly from wheat, maize and rice, while pulses, sugar & sweeteners, and milk excluding butter had a contribution of 9.3, 9.2 and 7.3 per cent, respectively.

**Figure 7.5: Caloric Supply by Main Food Groups, 2021**



**Table 7.24 (a): Food Balance Sheet, 2020**

| FOOD BALANCE SHEET 2020 Population('000):43,465 |                           |          |          |                |            |                                |      |      |      | DOMESTIC UTILIZATION (1000 MT) |               |               |          | PER CAPUT SUPPLY |      |   |  |  |
|---|---------------------------|----------|----------|----------------|------------|--------------------------------|------|------|------|--------------------------------|---------------|---------------|----------|------------------|------|---|--|--|
| Products  | DOMESTIC SUPPLY (1000 MT) |          |          |                |            | DOMESTIC UTILIZATION (1000 MT) |      |      |      |                                | YEAR PER FOOD |               | PER DAY  |                  |      |   |  |  |
|   | Prod.                     | Im-ports | Ex-ports | Stock-chang-es | Total D.S. | Pro-cessed                     | Loss | Feed | Seed | Other Uses                     | Food          | YEAR PER FOOD | Calories | Proteins         | Fats |   |  |  |
| Grand total                                     |                           |          |          |                |            |                                |      |      |      |                                |               | 2,233         | 71       | 29               |      |   |  |  |
| Vegetal prod.                                   |                           |          |          |                |            |                                |      |      |      |                                |               | 2,021         | 58       | 17               |      |   |  |  |
| Animal prod.                                    |                           |          |          |                |            |                                |      |      |      |                                |               | 211           | 13       | 12               |      |   |  |  |
| Cereals (excl. beer)                            | 4,878                     | 3,274    | 121      | 70             | 7,960      | 175                            | 185  | 572  | 83   | 226                            | 6,719         | 139           | 1,031    | 27               | 9    |   |  |  |
| Wheat and products                              | 405                       | 1,911    | 5        | 55             | 2,255      | -                              | 46   | 111  | 10   | 100                            | 1,988         | 41            | 305      | 9                | 1    |   |  |  |
| Barley and products                             | 35                        | 2        | 22       | (50)           | 65         | 60                             | 1    | -    | 1    | -                              | 3             | 0             | 1        | -                | -    | - |  |  |
| Maize and products                              | 3,789                     | 339      | 9        | 111            | 4,008      | 69                             | 79   | 429  | 63   | 123                            | 3,244         | 67            | 515      | 14               | 7    |   |  |  |
| Rye and products                                | -                         | 4        | (4)      | 0              | -          | -                              | 0    | -    | -    | -                              | -             | -             | -        | -                | -    | - |  |  |
| Oats and products                               | 0                         | 1        | 0        | 1              | -          | 0                              | 0    | 0    | 0    | 0                              | 0             | 0             | 0        | -                | -    | - |  |  |
| Millet and products                             | 153                       | 10       | -        | 82             | 81         | 14                             | 18   | 7    | 2    | -                              | 40            | 1             | 7        | -                | -    | - |  |  |
| Sorghum and products                            | 315                       | 59       | 77       | 124            | 172        | 32                             | 37   | 25   | 5    | 0                              | 74            | 2             | 13       | -                | -    | - |  |  |
| Cereals, Others & Products                      | -                         | 0        | 1        | (250)          | 249        | -                              | -    | 0    | -    | -                              | 249           | 5             | 46       | 1                | -    | - |  |  |
| Rice & Prod (Milled Equivalent)                 | 181                       | 952      | 2        | 2              | 1,128      | -                              | 4    | -    | 2    | 3                              | 1,120         | 23            | 144      | 3                | -    | - |  |  |
| Starchy roots                                   | 3,473                     | 2        | 1        | -              | 3,474      | -                              | 283  | -    | 142  | 4                              | 3,045         | 63            | 149      | 1                | -    | - |  |  |
| Potatoes and products                           | 1,860                     | 0        | 1        | -              | 1,860      | -                              | 186  | -    | 141  | 2                              | 1,530         | 32            | 61       | 1                | -    | - |  |  |
| Cassava and products                            | 898                       | 1        | 0        | -              | 899        | -                              | 27   | -    | -    | 1                              | 871           | 18            | 53       | -                | -    | - |  |  |
| Sweet potatoes                                  | 686                       | 0        | 0        | -              | 686        | -                              | 69   | -    | -    | 0                              | 617           | 13            | 33       | -                | -    | - |  |  |
| Roots & Tubers, Other & Prod.                   | 20                        | 0        | 0        | -              | 20         | -                              | 2    | -    | -    | -                              | 18            | 0             | 1        | -                | -    | - |  |  |

**Table 7.24 (a): Food Balance Sheet, 2020 (Continued)**

| Products                       | FOOD BALANCE SHEET 2020 Population('000): 48,465 |          |          |                | DOMESTIC SUPPLY (1000 MT) |            |      |      | DOMESTIC UTILIZATION (1000 MT) |            |       |               | PER CAPUT SUPPLY |          |      |
|--------------------------------|--|----------|----------|----------------|---------------------------|------------|------|------|--------------------------------|------------|-------|---------------|------------------|----------|------|
|                                | Prod.  | Im-ports | Ex-ports | Stock-chang-es | Total D.S.                | Pro-cessed | Loss | Feed | Seed                           | Other Uses | Food  | YEAR PER FOOD | Calories         | Proteins | Fats |
| Yams                           | 10   | 0        | 0        | -              | 10                        | -          | -    | -    | 1                              | -          | 9     | 0             | 1                | -        | -    |
| Sugar crops                    | 6,813  | -        | 0        | -              | 6,813                     | 4,835      | -    | -    | 0                              | 1,978      | 41    | 33            | -                | -        | -    |
| Sugar cane                     | 6,813  | -        | 0        | -              | 6,813                     | 4,835      | -    | -    | 0                              | 1,978      | 41    | 33            | -                | -        | -    |
| Sugar Beets                    | -  | -        | -        | -              | -                         | -          | -    | -    | -                              | -          | -     | -             | -                | -        | -    |
| Sugar & Sweeteners             | 715  | 481      | 19       | 170            | 1,007                     | 48         | -    | -    | 3                              | 956        | 20    | 189           | -                | -        | -    |
| Sugar non-centrifugal          | 22   | 0        | 1        | -              | 22                        | 2          | -    | -    | 1                              | 18         | 0     | 2             | -                | -        | -    |
| Sugar & Prod. (raw equivalent) | 675  | 481      | 19       | 170            | 967                       | 46         | -    | -    | 1                              | 920        | 19    | 184           | -                | -        | -    |
| Sweeteners, other & prod.      | -  | 0        | -        | 0              | 0                         | -          | -    | -    | 0                              | 0          | 0     | -             | -                | -        | -    |
| Honey                          | 18   | 0        | 0        | -              | 18                        | -          | -    | -    | -                              | 18         | 0     | 3             | -                | -        | -    |
| Pulses                         | 1,229  | 90       | 79       | (582)          | 1,821                     | -          | 124  | -    | 55                             | 1          | 1,641 | 34            | 313              | 22       | 2    |
| Beans, Dry & Products          | 774  | 3        | 9        | (38)           | 806                       | -          | 111  | -    | 46                             | 0          | 649   | 13            | 123              | 8        | 1    |
| Peas, Dry & Products           | -  | 68       | 23       | -              | 45                        | -          | -    | -    | 0                              | 45         | 1     | 9             | 1                | -        | -    |
| Pulses, Other and products     | 455  | 19       | 47       | (543)          | 970                       | -          | 13   | -    | 9                              | 0          | 948   | 20            | 181              | 13       | 1    |
| Treenuts                       | 35   | 5        | 2        | -              | 39                        | -          | -    | -    | 0                              | 39         | 1     | 5             | -                | -        | -    |
| Nuts and products              | 35   | 5        | 2        | -              | 39                        | -          | -    | -    | 0                              | 39         | 1     | 5             | -                | -        | -    |
| Oilcrops                       | 180  | 102      | 10       | -              | 272                       | 99         | 7    | -    | 2                              | 163        | 3     | 22            | 1                | 1        | -    |
| Soyabean & Products            | 2  | 23       | 0        | -              | 26                        | -          | -    | -    | 1                              | 0          | 25    | 1             | 5                | 1        | -    |
| Groundnuts (Shelled Eq)        | 16   | 39       | 2        | -              | 53                        | -          | 1    | -    | 1                              | -          | 51    | 1             | 11               | -        | 1    |
| Sunflower seed                 | 0  | 38       | 0        | -              | 38                        | 38         | 0    | -    | 0                              | -          | -     | -             | -                | -        | -    |

**Table 7.24 (a): Food Balance Sheet, 2020 (Continued)**

| Products                     | FOOD BALANCE SHEET 2020 Population('000):48,465 |          |          |                |            | DOMESTIC UTILIZATION (1000 MT) |      |      |      |            | PER CAPUT SUPPLY |               |                        |
|------------------------------|---|----------|----------|----------------|------------|--------------------------------|------|------|------|------------|------------------|---------------|------------------------|
|                              | Prod.   | Im-ports | Ex-ports | Stock chang-es | Total D.S. | Pro-cessed                     | Loss | Feed | Seed | Other Uses | Food             | YEAR PER FOOD | Calories Proteins Fats |
| Rape and Mustardseed         | -   | 0        | 0        | 0              | 0          | -                              | -    | -    | -    | 0          | 0                | 0             | -                      |
| Coconuts - Incl Copra        | 110   | 1        | 5        | -              | 106        | 22                             | 5    | -    | -    | -          | 79               | 2             | 4                      |
| Sesame seed                  | 11  | 0        | 2        | -              | 9          | 0                              | 0    | -    | 0    | -          | 8                | 0             | 3                      |
| Palmkernels                  | -   | -        | -        | -              | -          | -                              | -    | -    | -    | -          | -                | -             | -                      |
| Olives (including preserved) | -   | 0        | -        | -              | 0          | -                              | -    | -    | -    | 0          | 0                | -             | -                      |
| Oilcrops, Other              | 41  | 0        | 1        | -              | 40         | 38                             | -    | -    | 0    | 2          | -                | -             | -                      |
| Vegetable oils               | 41  | 901      | 170      | 632            | 140        | 53                             | -    | -    | 56   | 31         | 1                | 15            | 1                      |
| Soyabean Oil                 | -   | -        | -        | -              | -          | -                              | -    | -    | -    | -          | -                | -             | -                      |
| Groundnut Oil                | -   | -        | -        | -              | -          | -                              | -    | -    | -    | -          | -                | -             | -                      |
| Sunflowerseed Oil            | 10  | 6        | 0        | -              | 16         | -                              | -    | -    | -    | 16         | 0                | 8             | 1                      |
| Rape and Mustard Oil         | -   | -        | -        | -              | -          | -                              | -    | -    | -    | -          | -                | -             | -                      |
| Cottonseed Oil               | 2   | -        | -        | -              | 2          | -                              | -    | -    | 0    | 2          | 0                | 1             | -                      |
| Palmkernel Oil               | -   | 1        | -        | -              | 1          | -                              | -    | -    | 1    | 0          | 0                | -             | -                      |
| Palm Oil                     | -   | 893      | 149      | 632            | 112        | 52                             | -    | -    | 53   | 6          | 0                | 3             | -                      |
| Coconut Oil                  | 6   | 0        | 0        | -              | 7          | -                              | -    | -    | 7    | 0          | 3                | -             | -                      |
| Sesameseed Oil               | 0   | 0        | 0        | -              | -          | -                              | -    | -    | -    | -          | -                | -             | -                      |
| Olive & Residue Oil          | -   | 1        | 0        | -              | 1          | -                              | -    | -    | -    | 1          | 0                | 0             | -                      |
| Maize Germ Oil               | 1   | -        | 0        | -              | 1          | -                              | -    | -    | -    | 1          | 0                | 0             | -                      |
| Oilcrops Oil, Other          | 22  | 0        | 21       | 0              | 1          | 1                              | -    | -    | -    | 1          | 0                | 0             | -                      |

**Table 7.24 (b): Food Balance Sheet, 2021**

| Products                        | FOOD BALANCE SHEET 2020 Population ('000):48,465 |          |          |                | DOMESTIC SUPPLY (1000 MT) |            |      |      | DOMESTIC UTILIZATION (1000 MT) |            |       |               | PER CAPUT SUPPLY |          |      |
|---------------------------------|--|----------|----------|----------------|---------------------------|------------|------|------|--------------------------------|------------|-------|---------------|------------------|----------|------|
|                                 | Prod.  | In-ports | Ex-ports | Stock-chang-es | Total D.S.                | Pro-cessed | Loss | Feed | Seed                           | Other Uses | Food  | YEAR PER FOOD | Calories         | Proteins | Fats |
| Vegetables                      | 3,813  | 57       | 115      | 7              | 3,748                     | -          | 184  | -    | -                              | 3          | 3,561 | 73            | 46               | 3        | -    |
| Tomatoes and products           | 1,046  | 21       | 4        | -              | 1,063                     | -          | 105  | -    | -                              | 0          | 959   | 20            | 11               | 1        | -    |
| Onions, Dry                     | 197  | 2        | -        | -              | 199                       | -          | 20   | -    | -                              | 0          | 179   | 4             | 4                | -        | -    |
| Vegetables, Other & Prod.       | 2,570  | 33       | 111      | 7              | 2,485                     | -          | 59   | -    | -                              | 3          | 2,423 | 50            | 31               | 2        | -    |
| Fruits (Excluding Wine)         | 4,633  | 149      | 320      | (93)           | 4,556                     | 1          | 498  | -    | -                              | 1          | 4,055 | 84            | 127              | 1        | 1    |
| Oranges, Tang-Mand & Prod.      | 170  | 8        | 1        | -              | 177                       | -          | 17   | -    | -                              | 0          | 161   | 3             | 3                | -        | -    |
| Lemons, Limes and products      | 99   | 1        | 1        | -              | 99                        | -          | -    | -    | -                              | 0          | 99    | 2             | 1                | -        | -    |
| Grapefruit and products         | 2  | 1        | 0        | -              | 3                         | -          | 0    | -    | -                              | -          | 3     | 0             | -                | -        | -    |
| Citrus Fruit ness & prod        | 135  | 0        | 0        | -              | 135                       | -          | 13   | -    | -                              | -          | 122   | 3             | 2                | -        | -    |
| Bananas                         | 1,857  | 0        | 0        | -              | 1,857                     | -          | 278  | -    | -                              | 0          | 1,578 | 33            | 53               | 1        | -    |
| Plantains                       | 600  | -        | -        | -              | 600                       | 1          | 60   | -    | -                              | 0          | 539   | 11            | 23               | -        | -    |
| Apples and products             | 0  | 17       | 2        | (1)            | 15                        | -          | -    | -    | -                              | 1          | 15    | 0             | 0                | -        | -    |
| Pineapples and products         | 330  | 109      | 184      | (93)           | 348                       | -          | 33   | -    | -                              | 0          | 315   | 6             | 4                | -        | -    |
| Dates                           | 18   | 7        | 0        | -              | 25                        | -          | -    | -    | -                              | -          | 25    | 1             | 2                | -        | -    |
| Grapes and products (excl wine) | 0  | 4        | 0        | -              | 4                         | -          | -    | -    | -                              | 0          | 4     | 0             | 0                | -        | -    |
| Fruits, Other & Products        | 1,421  | 3        | 131      | (0)            | 1,293                     | 0          | 97   | -    | -                              | 0          | 1,196 | 25            | 38               | -        | 1    |
| Stimulants                      | 606  | 4        | 629      | (652)          | 634                       | 0          | -    | -    | -                              | 0          | 634   | 13            | 16               | -        | -    |
| Coffee and products             | 37   | 4        | 53       | (598)          | 586                       | -          | -    | -    | -                              | 0          | 586   | 12            | 15               | -        | -    |
| Cocoa Beans and products        | -  | 0        | 0        | 0              | 0                         | 0          | -    | -    | -                              | 0          | 0     | 0             | -                | -        | -    |
| Tea (including mate)            | 570  | 0        | 576      | (54)           | 47                        | -          | -    | -    | -                              | -          | 47    | 1             | 1                | -        | -    |

**Table 7.24 (b): Food Balance Sheet, 2021 (Continued)**

| Products                     | FOOD BALANCE SHEET 2020 Population ('000):48,465 |          |          |                | DOMESTIC SUPPLY (1000 MT) |            |      |      | DOMESTIC UTILIZATION (1000 MT) |            |      |               | PER CAPUT SUPPLY |          |      |
|------------------------------|--|----------|----------|----------------|---------------------------|------------|------|------|--------------------------------|------------|------|---------------|------------------|----------|------|
|                              | Prod.  | Im-ports | Ex-ports | Stock-chang-es | Total D.S.                | Pro-cessed | Loss | Feed | Seed                           | Other Uses | Food | YEAR PER FOOD | Calories         | Proteins | Fats |
| Spices                       | 271  | 2        | 1        | (0)            | 273                       | -          | -    | -    | -                              | 1          | 272  | 6             | 52               | 2        | 2    |
| Pepper                       | 0  | 0        | 0        | -              | -                         | -          | -    | -    | -                              | -          | -    | -             | -                | -        | -    |
| Pimento                      | -  | 0        | 0        | -              | -                         | -          | -    | -    | -                              | -          | -    | -             | -                | -        | -    |
| Cloves                       | 1  | -        | 0        | -              | 0                         | -          | -    | -    | -                              | -          | 0    | 0             | 0                | -        | -    |
| Spices, other                | 270  | 2        | 0        | (0)            | 272                       | -          | -    | -    | -                              | 1          | 272  | 6             | 52               | 2        | 2    |
| Alcoholic beverages          | 848  | 10       | 20       | 16             | 822                       | -          | -    | -    | -                              | 1          | 820  | 17            | 23               | -        | -    |
| Wine                         | -  | 0        | 0        | -              | 0                         | -          | -    | -    | -                              | 0          | 0    | 0             | -                | -        | -    |
| Barley Beer                  | 574  | 7        | 19       | -              | 563                       | -          | -    | -    | -                              | 0          | 563  | 12            | 14               | -        | -    |
| Beverages, fermented         | 231  | -        | 0        | -              | 231                       | -          | -    | -    | -                              | 0          | 231  | 5             | 5                | -        | -    |
| Beverages, alcoholic         | 27   | 0        | 0        | -              | 27                        | -          | -    | -    | -                              | 1          | -    | -             | -                | -        | -    |
| Alcohol, non food            | 16   | 2        | 0        | 16             | 1                         | -          | -    | -    | -                              | 27         | 1    | 5             | -                | -        | -    |
| Meat                         | 565  | 2        | 42       | -              | 525                       | -          | -    | -    | -                              | 0          | 525  | 11            | 51               | 3        | 3    |
| Meat & Products, Bovine      | 244  | 0        | 1        | -              | 243                       | -          | -    | -    | -                              | 0          | 243  | 5             | 26               | 2        | 2    |
| Meat & Prod, Sheep & Goat    | 160  | -        | 12       | -              | 149                       | -          | -    | -    | -                              | 0          | 149  | 3             | 14               | 1        | 1    |
| Meat & Products, Pig         | 27   | 2        | 29       | -              | (0)                       | -          | -    | -    | -                              | (0)        | -    | -             | -                | -        | -    |
| Meat & Products, Poultry     | 69   | -        | 0        | -              | 69                        | -          | -    | -    | -                              | 69         | 1    | 5             | -                | -        | -    |
| Meat & Products, Other Anim. | 64   | -        | -        | -              | 64                        | -          | -    | -    | -                              | 0          | 64   | 1             | 6                | -        | -    |
| Offals                       | 74   | -        | -        | -              | 74                        | -          | -    | -    | -                              | -          | 74   | 2             | 4                | 1        | -    |
| Offals, Edible               | 74   | -        | -        | -              | 74                        | -          | -    | -    | -                              | -          | 74   | 2             | 4                | 1        | -    |
| Animal fats                  | 53   | 0        | 1        | 19             | 32                        | 27         | -    | -    | -                              | 0          | 5    | 0             | 3                | -        | -    |
| Fats, Animals, Raw           | 52   | 0        | 1        | 19             | 32                        | 27         | -    | -    | -                              | 0          | 5    | 0             | 2                | -        | -    |
| Butter, Ghee                 | -  | -        | -        | -              | -                         | -          | -    | -    | -                              | -          | -    | -             | 1                | -        | -    |

**Table 7.24 (a): Food Balance Sheet, 2021 (Continued)**

| Products                       | FOOD BALANCE SHEET 2020 Population ('000):48,465 |          |          |                | DOMESTIC SUPPLY (1000 MT) |            |      |      | DOMESTIC UTILIZATION (1000 MT) |            |       |               | PER CAPUT SUPPLY |          |      |
|--------------------------------|--|----------|----------|----------------|---------------------------|------------|------|------|--------------------------------|------------|-------|---------------|------------------|----------|------|
|                                | Prod.  | Im-ports | Ex-ports | Stock-chang-es | Total D.S.                | Pro-cessed | Loss | Feed | Seed                           | Other Uses | Food  | YEAR PER FOOD | Calories         | Proteins | Fats |
| Cream                          | 0  | -        | 0        | -              | 0                         | -          | -    | -    | -                              | 0          | 0     | 0             | 1                | -        | -    |
| Fish, body oil                 | -  | -        | -        | -              | -                         | -          | -    | -    | -                              | -          | -     | -             | -                | -        | -    |
| Fish, liver oil                | -  | -        | -        | -              | -                         | -          | -    | -    | -                              | -          | -     | -             | -                | -        | -    |
| Milk - Excluding Butter        | 4,049  | 198      | 3        | -              | 4,244                     | 30         | 200  | 11   | -                              | 0          | 4,003 | 83            | 139              | 7        | 9    |
| Milk & Prod (Excluding Butter) | 4,049  | 198      | 3        | -              | 4,244                     | 30         | 200  | 11   | -                              | 0          | 4,003 | 83            | 139              | 7        | 9    |
| Eggs                           | 110  | 0        | 0        | -              | 111                       | -          | 16   | -    | 6                              | -          | 88    | 2             | 6                | 1        | -    |
| Eggs and products              | 110  | 0        | 0        | -              | 111                       | -          | 16   | -    | 6                              | -          | 88    | 2             | 6                | 1        | -    |
| Fish & sea food                | 148  | 42       | 8        | -              | 182                       | -          | -    | -    | -                              | -          | 182   | 4             | 8                | 1        | 0    |
| Freshwater fish                | 124  | 19       | 2        | -              | 141                       | -          | -    | -    | -                              | -          | 141   | 3             | 5                | 1        | 0    |
| Demersal fish                  | -  | -        | -        | -              | -                         | -          | -    | -    | -                              | -          | -     | -             | 0                | 0        | 0    |
| Pelagic fish                   | -  | 21       | 3        | -              | 18                        | -          | -    | -    | -                              | -          | 18    | 0             | 1                | 0        | 0    |
| Marine fish, other             | 20   | 2        | 1        | -              | 21                        | -          | -    | -    | -                              | -          | 21    | 0             | 1                | 0        | 0    |
| Crustaceans                    | 2  | 0        | 0        | -              | 1                         | -          | -    | -    | -                              | -          | 1     | 0             | 0                | 0        | 0    |
| Molluscs other                 | 2  | 0        | 1        | -              | 1                         | -          | -    | -    | -                              | -          | 1     | 0             | 0                | 0        | 0    |
| Cephalopods                    | -  | 0        | -        | (0)            | -                         | -          | -    | -    | -                              | -          | (0)   | (0)           | 0                | 0        | 0    |
| Aquatic products, other        | -  | -        | -        | -              | -                         | -          | -    | -    | -                              | -          | -     | -             | -                | -        | -    |
| Aquatic mammals meat           | -  | -        | -        | -              | -                         | -          | -    | -    | -                              | -          | -     | -             | 0                | 0        | 0    |
| Aquatic animals, other         | -  | -        | -        | -              | -                         | -          | -    | -    | -                              | -          | -     | -             | 0                | 0        | 0    |
| Aquatic plants                 | -  | -        | -        | -              | -                         | -          | -    | -    | -                              | -          | -     | -             | -                | -        | -    |
| Miscellaneous                  | -  | 6        | 1        | 0              | 5                         | -          | -    | -    | 0                              | 5          | 0     | 1             | -                | -        | -    |
| Infant food                    | -  | 6        | 1        | 0              | 5                         | -          | -    | -    | 0                              | 5          | 0     | 1             | -                | -        | -    |
| Miscellaneous                  | -  | -        | -        | -              | -                         | -          | -    | -    | -                              | -          | -     | -             | -                | -        | -    |





# Environment and Natural Resources

## Overview

The National Government overall expenditure on water supplies and related services is expected to decrease by 13.2 per cent from KSh 65.2 billion in 2020/21 to KSh 56.6 billion in 2021/22 financial year. This is attributed to the tight fiscal framework during 2021/22 financial year. During the review period, rural water supply development funding is expected to increase from KSh 2.4 billion to KSh 3.5 billion as the Government invests more in funding rural water projects. Funding for irrigation development is expected to increase substantially from KSh 0.5 billion in 2020/21 to KSh 1.4 billion in 2021/22 while that for National Irrigation Authority is expected to increase by 25.8 per cent to KSh 10.7 billion in 2021/22.

8.2. The total value of fish landed increased by 16.0 per cent from KSh 26.2 billion in 2020 to KSh 30.4 billion in 2021. Total value of fish landed from fresh water sources grew from KSh 20.6 billion in 2020 to KSh 23.3 billion in the year under review accounting for 76.8 per cent of the total value of fish landed. Area stocked under Government forest plantation increased from 149.6 thousand hectares in 2020 to 151.9 thousand hectares in 2021 due to the continued ban on logging in Government forests, which has been in effect since 2018. Total value of minerals produced increased by 33.0 per cent from KSh 22.7 billion in 2020 to KSh 30.2 billion in 2021. Most parts of the country experienced depressed rainfall during the Long Rains (March-April-May) and Short Rains (October-November-December) seasons.

### Environment and Natural Resources Sector Gross Value Added

**8.3.** The sector's Gross Value added increased by 17.0 per cent during the review period to KSh 435.7 billion from KSh 372.5 billion recorded in 2020. The overall share to the Gross Domestic Product (GDP) from the environment and natural resources sector rose to 3.6 per cent in 2021 from a contribution of 3.5 per cent in the year 2020.

**Table 8.1: Trends in Environment and Natural Resources Sector Gross Value Added at Current Prices, 2017 - 2021**

| Industry                    | 2017             | 2018             | 2019             | 2020             | KSh Million<br>2021* |
|-----------------------------|------------------|------------------|------------------|------------------|----------------------|
| Forestry and Logging        | 102,617.4        | 125,979.4        | 156,606.0        | 172,949.0        | 199,836.2            |
| Fishing and Aquaculture     | 42,687.2         | 51,033.8         | 57,571.6         | 63,111.6         | 80,714.8             |
| Mining and Quarrying        | 71,675.0         | 68,908.6         | 72,768.8         | 76,327.4         | 918,48.7             |
| Water Supply <sup>1</sup>   | 59,270.7         | 59,648.4         | 58,912.1         | 60,070.1         | 63,274.0             |
| <b>Total</b>                | <b>276,250.2</b> | <b>305,570.3</b> | <b>345,858.4</b> | <b>372,458.2</b> | <b>435,673.8</b>     |
| GDP at Market Prices        | 8,483,396.5      | 9,340,306.7      | 10,237,727.2     | 10,716,033.6     | 12,098,200.5         |
| Resource as per cent of GDP | 3.3              | 3.3              | 3.4              | 3.5              | 3.6                  |

<sup>1</sup>Includes Sewerage and Waste Management

\* Provisional

### Water Supply

**8.4.** The Government through the Ministry of Water, Sanitation and Irrigation has continued to undertake significant measures to ensure increased access to safe and adequate water countrywide. During the year under review, the Ministry in collaboration with other stakeholders were engaged in providing clean water through the drilling of boreholes and maintenance of modest Water Purification Points (WPPs) as presented in Table 8.2. The number of WPPs is

expected to increase by 15 from 338 in 2020/21 to 353 in 2021/22 following completion of water projects across the country through the Rapid Results Initiative. Similarly, it is expected that 4,241 boreholes will be drilled in 2021/22, significantly higher than 1,401 boreholes drilled in 2020/21. The private sector is expected to account for 88.9 per cent of the total number boreholes drilled.

**Table 8.2: Water Purification Points and Boreholes Drilled<sup>1</sup>, 2017/18 – 2021/22**

|                                  | 2017/18 | 2018/19 | 2019/20 | 2020/21 | Number<br>2021/22* |
|----------------------------------|---------|---------|---------|---------|--------------------|
| Water Purification Points (WPPs) | 258     | 315     | 323     | 338     | 353                |
| Boreholes (BH) Drilled           |         |         |         |         |                    |
| Total                            | 14,628  | 15,418  | 19,008  | 20,409  | 24,650             |
| Public Sector                    | 1,902   | 1,957   | 2,249   | 2,455   | 2,734              |
| Private Sector                   | 12,726  | 13,461  | 16,759  | 17,954  | 21,916             |

Source: Ministry of Water, Sanitation and Irrigation

<sup>1</sup> Cumulative

\* Provisional

**8.5.** The development expenditure on water supplies and related services is summarized in Table 8.3. Total outlays on water supplies and related services is projected to decline by 13.2 per cent from KSh 65.2 billion in 2020/21 to KSh 56.6 billion in 2021/22. This is mainly attributed to the tight fiscal framework during the 2021/22 financial year. Expenditure on water development is expected to decrease by 21.2 per cent from KSh 49.5 billion in 2020/21 to KSh 39.0 billion in 2021/22 as a result of budget cuts and also completion of some major projects. Completed projects include: Baricho water supply expansion, Baringo South Rural water rehabilitation, Chemususu dam water supply, Vihiga cluster and Murang'a South water supply projects. Similarly, funding for Miscellaneous and Special Water Programmes is expected to reduce from KSh 676.0 million in 2020/21 to KSh

100.0 million 2021/22 following completion of boreholes in informal settlements under the COVID-19 response programme.

**8.6.** Development expenditure for Rural Water Supplies is expected to increase from KSh 2.4 billion in 2020/21 to KSh 3.5 billion 2021/22 as the Government invests more in rural water projects. Similarly, Irrigation Development and National Irrigation Authority (NIA) are expected to receive a significant increase in budgetary allocation from KSh 0.5 billion and KSh 8.5 billion in 2020/21 to KSh 1.4 billion and KSh 10.7 billion, respectively, in 2021/22. However, development expenditure for the National Water Harvesting and Storage Authority (NWHSA) is expected to decrease by 45.5 per cent from KSh 3.3 billion in 2020/21 to KSh 1.8 billion in 2021/22.

**Table 8.3: Development Expenditure on Water Supplies and Related Services by the National Government, 2017/18 - 2021/22**

| Sector  | 2017/18         | 2018/19         | 2019/20         | 2020/21         | KSh Million<br>2021/22* |
|---|-----------------|-----------------|-----------------|-----------------|-------------------------|
| Water Development                               | 22,532.0        | 21,253.7        | 32,247.0        | 49,486.0        | 38,972.5                |
| Training of Water Development Staff             | 31.0            | 60.0            | 68.0            | 224.0           | 233.0                   |
| Rural Water Supplies                            | 1,442.4         | 1,260.0         | 2,548.0         | 2,440.0         | 3,469.5                 |
| Miscellaneous and Special Water Programmes      | 996.4           | 720.3           | 620.0           | 676.0           | 100.0                   |
| National Water Harvesting and Storage Authority | 1,660.8         | 1,150.0         | 1,380.0         | 3,325.0         | 1,780.0                 |
| Irrigation Development                          | 480.0           | 1,177.0         | 713.7           | 523.0           | 1,397.0                 |
| National Irrigation Authority <sup>+</sup>      | 3,978.0         | 5,461.0         | 6,616.0         | 8,491.0         | 10,682.0                |
| <b>TOTAL</b>                                    | <b>31,120.6</b> | <b>31,082.0</b> | <b>44,192.7</b> | <b>65,165.0</b> | <b>56,634.0</b>         |

Source: Ministry of Water, Sanitation and Irrigation

\* Provisional

<sup>+</sup>Revised

**8.7.** Table 8.4 shows the volume of water abstracted under permit from 2017 to 2021. Total volume of water abstracted increased by 16.0 million cubic metres to 32.3 billion cubic metres in 2021. Surface water abstraction which accounted for 99.3 per cent of the total volume of water abstracted increased by 23.2 million cubic metres in the review period.

**Table 8.4: Annual Volume of Water Abstracted under Permit, 2017– 2021**

|               | 2017            | 2018            | 2019            | 2020            | Million M <sup>3</sup><br>2021* |
|---------------|-----------------|-----------------|-----------------|-----------------|---------------------------------|
| Surface Water | 30,743.8        | 31,195.3        | 32,075.3        | 32,097.5        | 32,120.7                        |
| Ground Water  | 140.6           | 175.6           | 211.7           | 227.6           | 220.4                           |
| <b>Total</b>  | <b>30,884.5</b> | <b>31,370.9</b> | <b>32,286.9</b> | <b>32,325.1</b> | <b>32,341.1</b>                 |

Source: Water Resources Authority

\* Provisional

## Fisheries

**8.8.** The quantity and value of fish landed are shown in Table 8.5. In 2021, total fish output increased from 151.3 thousand tonnes in 2020 to 163.6 thousand tonnes. Fish landed from fresh water sources rose by 8.5 per cent to 136.3 thousand tonnes in 2021. Similarly, marine fish output increased by 6.2 per cent to 27.3 thousand tonnes in 2021. The increase was attributed to continued optimal exploitation of fishery resources on a sustainable basis through

enforcing stricter controls on fishing methods during breeding periods.

**8.9.** Total revenue generated from fish landed increased from KSh 26.2 billion in 2020 to KSh 30.4 billion in 2021. Earnings from fresh water fish landed grew from KSh 20.6 billion in 2020 to KSh 23.3 billion in the year under review accounting for 76.8 per cent of the total value of fish landed.

**Table 8.5: Quantity and Value of Fish Landed, 2017 – 2021**

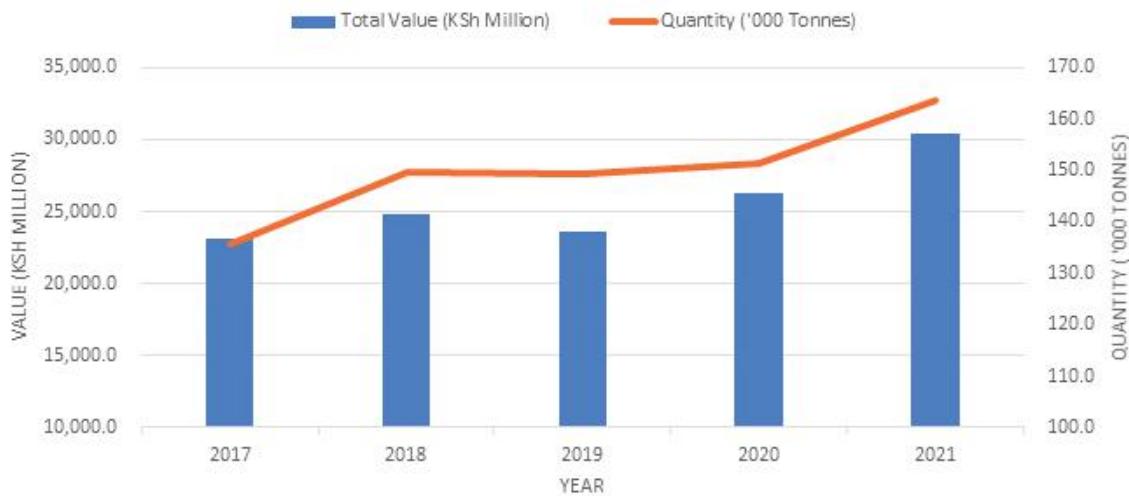
|                                     | 2017             | 2018             | 2019             | 2020             | 2021*            |
|-------------------------------------|------------------|------------------|------------------|------------------|------------------|
| Quantity - Tonnes: Fresh water fish |                  |                  |                  |                  |                  |
| Lake Victoria                       | 92,727           | 98,150           | 90,743           | 88,223           | 94,349           |
| Lake Turkana                        | 4,021            | 7,587            | 7,031            | 13,190           | 15,644           |
| Lake Naivasha                       | 1,689            | 2,287            | 3,087            | 2,216            | 1,804            |
| Lake Baringo                        | 155              | 145              | 203              | 162              | 406              |
| Lake Jipe                           | 112              | 131              | 157              | 197              | 227              |
| Lake Kanyaboli                      | 127              | 203              | 300              | 264              | 1,652            |
| Lake Kenyatta                       | 45               | 14               | 140              | 167              | 68               |
| Tana River dams                     | 422              | 297              | 394              | 283              | 197              |
| Tana River Delta                    | 115              | 46               | 94               | 63               | 135              |
| Aquaculture                         | 12,356           | 15,120           | 18,542           | 19,945           | 20,973           |
| Turkwel Dam                         | 35               | 34               | 50               | 107              | 98               |
| Riverline                           | 10               | 320              | 380              | 411              | 393              |
| Small Dams                          | 300              | 339              | 459              | 358              | 380              |
| <b>SUB-TOTAL</b>                    | <b>112,114.0</b> | <b>124,673.0</b> | <b>121,580.0</b> | <b>125,585.4</b> | <b>136,326.0</b> |
| Marine Sources                      |                  |                  |                  |                  |                  |
| Marine fish                         | 19,357.0         | 20,133.0         | 21,647.0         | 20,201.0         | 21,980.0         |
| Crustaceans                         | 1,646.0          | 1,600.0          | 1,933.0          | 1,592.0          | 1,810.0          |
| Molluscs                            | 2,281.0          | 2,101.0          | 2,064.0          | 1,925.0          | 1,693.0          |
| Marine Industrial                   | 449.0            | 1,038.5          | 1,994.0          | 1,972.0          | 1,796.0          |
| <b>SUB-TOTAL</b>                    | <b>23,733.0</b>  | <b>24,872.5</b>  | <b>27,638.0</b>  | <b>25,690.0</b>  | <b>27,279.0</b>  |
| <b>TOTAL</b>                        | <b>135,847.0</b> | <b>149,545.5</b> | <b>149,218.0</b> | <b>151,275.4</b> | <b>163,605.0</b> |
| Value - KSh Million                 |                  |                  |                  |                  |                  |
| Fresh water fish                    | 18,656.1         | 20,113.8         | 18,724.4         | 20,585.1         | 23,322.9         |
| Marine fish                         | 2,976.2          | 3,016.0          | 2,865.3          | 3,209.6          | 4,633.8          |
| Crustaceans                         | 916.9            | 999.2            | 1,126.7          | 918.8            | 1,111.4          |
| Molluscs                            | 397.9            | 442.7            | 485.5            | 707.4            | 558.4            |
| Marine Industrial                   | 126.4            | 252.6            | 405.8            | 794.0            | 756.8            |
| <b>TOTAL</b>                        | <b>23,073.5</b>  | <b>24,824.2</b>  | <b>23,607.8</b>  | <b>26,214.8</b>  | <b>30,383.3</b>  |

Source: Kenya Fisheries Service

\* Provisional

**8.10.** Figure 8.1 shows the trend of value and quantity of fish landed from 2017 to 2021. Total value of fish landed stood at KSh 30.4 billion in 2021.

**Figure 8.1: Total Value and Quantity of Fish Landed, 2017 – 2021**



### Forestry

**8.11.** Kenya Forest Service has adopted a new forest resource assessment methodology that uses high resolution imagery to classify forests based on forest canopy density. The new categories are; dense,

moderate and open forest as shown in Table 8.6(b). As per the new forest classification, the total forest area stood at 5,225.8 thousand hectares resulting to a national forest cover of 8.83 per cent in 2021.

**Table 8.6(a): Status of Forests, 2017 – 2020<sup>1</sup>**

| Category of forest cover type | 2017     | 2018     | 2019     | 2020     |
|-------------------------------|----------|----------|----------|----------|
| Natural Forests               |          |          |          |          |
| Indigenous mixed trees        | 3,925.0  | 3,925.0  | 3,925.0  | 3,925.0  |
| Bamboo                        | 59.0     | 59.0     | 59.0     | 59.0     |
| Mangroves                     | 49.0     | 49.0     | 49.0     | 49.0     |
| Sub Total (Natural Forests)   | 4,033.0  | 4,033.0  | 4,033.0  | 4,033.0  |
| Public Plantation forests     | 135.1    | 141.6    | 147.6    | 149.6    |
| Private plantation forests    | 47.0     | 47.0     | 47.0     | 47.0     |
| Total Forest Area             | 4,215.1  | 4,221.6  | 4,227.6  | 4,229.6  |
| Grassland and Bushland        | 41,100.0 | 41,000.0 | 41,000.0 | 41,000.0 |
| Total Area for Country        | 59,196.9 | 59,196.9 | 59,196.9 | 59,196.9 |
| Forest Cover (%)              | 7.12     | 7.13     | 7.14     | 7.14     |

Source: Kenya Forest Service

<sup>1</sup> A new forest categorization has been adopted using new methodology as from 2021

**Table 8.6(b): Status of Forests, 2021<sup>1</sup>**

| Forest Canopy Density        | '000 Ha  |
|------------------------------|----------|
| 2021*                        |          |
| Dense Forest <sup>2</sup>    | 1,756.7  |
| Moderate Forest <sup>3</sup> | 1,648.9  |
| Open Forest <sup>4</sup>     | 1,820.2  |
| Total Forest Area            | 5,225.8  |
| Grassland and Bushland       | 41,647.6 |
| Total Area for Country       | 59,196.9 |
| Forest Cover (%)             | 8.83     |

Source: Kenya Forest Service

\* Provisional

<sup>1</sup>A new forest categorization has been adopted using new methodology as from 2021.

<sup>2</sup>Dense Forest for 2021 Lands with tree cover of canopy density of 70% and above

<sup>3</sup>Moderate Forest for 2021 Lands with tree cover of canopy density of between 40% to 70%

<sup>4</sup>Open Forest for 2021 Lands with tree cover of canopy density below 40%

**8.12.** Total area under state forest plantation stocking increased from 149.6 thousand hectares in 2020 to 151.9 thousand hectares in 2021 as presented in Table 8.7. Area planted was 2.4 thousand hectares in 2021, a decline of 44.0 per cent from the 4.3 thousand hectares realized in 2020. There was no area

clear felled due to the continued ban on logging in Government forests, which has been in effect since 2018. The forest area affected by planting failures and fire damages reduced to 0.1 thousand hectares in 2021 compared to 2.3 thousand hectares in 2020.

**Table 8.7: Government Forest Plantation Stocking, 2017 – 2021**

| Forest Stocking                            | 2017         | 2018         | 2019         | 2020         | 2021*        |
|--|--------------|--------------|--------------|--------------|--------------|
| Previous Year Plantation Area <sup>1</sup> | 131.4        | 135.1        | 141.6        | 147.6        | 149.6        |
| Area Planted                               | 11.0         | 9.2          | 7.2          | 4.3          | 2.4          |
| Total                                      | 142.4        | 144.3        | 148.8        | 151.9        | 152.0        |
| Area Clear felled                          | 5.2          | 0.9          | 0            | 0            | 0            |
| Planting failures/fire damages             | 2.1          | 1.8          | 1.2          | 2.3          | 0.1          |
| <b>Total Area</b>                          | <b>135.1</b> | <b>141.6</b> | <b>147.6</b> | <b>149.6</b> | <b>151.9</b> |

Source: Kenya Forest Service

\* Provisional

<sup>1</sup>Opening stock at the beginning of the year

**8.13.** Sales of forest products by Government are presented in Table 8.8. Total sales of timber from Government forests declined from 80.0 thousand true cubic metres in 2020 to 34.2 thousand true cubic metres in 2021 as a result of the logging ban. The sale of softwood timber dropped to 7.9 thousand true

cubic metres in 2021 from 44.1 thousand true cubic metres registered in 2020. Fuelwood/charcoal sales increased to 10.5 thousand stacked cubic metres in 2021 from 4.1 thousand stacked cubic metres in 2020, while there were no recorded sales of power poles in the review period.

**Table 8.8: Recorded Sale of Government Forest Products, 2017 – 2021**

| Forest Products Sold                        | 2017         | 2018         | 2019        | 2020        | 2021*       |
|---|--------------|--------------|-------------|-------------|-------------|
| Timber - '000 true cu. metres-              |              |              |             |             |             |
| Soft wood                                   | 798.4        | 30.9         | 1.5         | 44.1        | 7.9         |
| Hard wood                                   | 83.4         | 113.3        | 9.2         | 35.9        | 26.3        |
| <b>TOTAL</b>                                | <b>881.8</b> | <b>144.2</b> | <b>10.7</b> | <b>80.0</b> | <b>34.2</b> |
| Fuelwood/charcoal ( 000 stacked cu. Metres) | 53.7         | 9.6          | 2.1         | 4.1         | 10.5        |
| Power Poles (000)                           | 34.2         | 29.2         | 13.2        | 18.1        | 0           |

Source: Kenya Forest Service

\* Provisional

## Mining

**8.14.** Table 8.9 shows the quantity and value of mineral production for the period 2017 to 2021. In 2021, there was an increase in production for most minerals except Zircon, Diatomite and Rutile that reduced by 19.5, 17.8 and 4.1 per cent, respectively. Total output of titanium ore minerals increased by 0.2 per cent from 440.0 thousand tonnes in 2020 to 440.8 thousand tonnes in 2021. Soda Ash production in

the review period increased by 11.4 per cent from 254.6 thousand tonnes in 2020 to 283.6 thousand tonnes in 2021.

**8.15.** The total value of minerals produced during the year under review increased by 33.0 per cent from KSh 22.7 billion in 2020 to KSh 30.2 billion. This is attributed to a 31.5 per cent increase in the value of the Titanium Ore Minerals to KSh 25.6 billion in 2021.

**Table 8.9: Quantity and Value of Mineral Production, 2017 – 2021**

| Mineral                                     | 2017            | 2018            | 2019            | 2020            | 2021*           |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|
| <b>Quantity - Tonnes</b>                    |                 |                 |                 |                 |                 |
| Soda Ash                                    | 303,580.0       | 294,856.0       | 282,049.4       | 254,578.8       | 283,620.6       |
| Fluorspar <sup>1</sup>                      | 6,945.0         | 0               | 0               | 0               | 0               |
| Salt  | 43,245.1        | 28,841.0        | 13,727.9        | 4,702.7         | 7,098.9         |
| Crushed Refined Soda                        | 538,952.2       | 511,976.7       | 388,460.0       | 159,553.5       | 418,657.0       |
| Carbon Dioxide                              | 11,855.0        | 11,000.0        | 11,111.0        | 16,256.5        | 21,127.4        |
| Diatomite                                   | 1,406.0         | 1,548.3         | 921.0           | 928.1           | 763.4           |
| Gold ( in Kgs)                              | 502.6           | 472.0           | 394.9           | 149.9           | 291.5           |
| Gemstones (cut) <sup>2</sup> in '000 carats | 22,955.0        | 14,500.4        | 19,796.0        | 5,186.7         | 7,398.7         |
| Gemstones (rough) <sup>2</sup>              | 1,247.7         | 508.8           | 403.7           | 55.6            | 441.9           |
| Titanium Ore Minerals                       | 643,494.0       | 597,736.0       | 486,152.0       | 439,960.0       | 440,772.0       |
| Illmenite                                   | 491,003.0       | 463,000.0       | 352,000.0       | 334,900.0       | 345,000.0       |
| Rutile                                      | 87,167.0        | 98,132.0        | 85,796.0        | 72,836.0        | 69,844.0        |
| Zircon                                      | 65,324.0        | 36,604.0        | 48,356.0        | 32,224.0        | 25,928.0        |
| <b>Value - KSh million</b>                  |                 |                 |                 |                 |                 |
| Soda Ash                                    | 1,659.7         | 1,809.9         | 1,776.7         | 1,603.7         | 1,786.6         |
| Fluorspar <sup>1</sup>                      | 129.7           | 0               | 0               | 0               | 0               |
| Salt  | 98.9            | 185.2           | 17.2            | 5.9             | 8.9             |
| Crushed Refined Soda                        | 1,108.9         | 579.9           | 435.1           | 178.7           | 468.9           |
| Carbon Dioxide                              | 589.4           | 225.8           | 286.9           | 455.2           | 225.4           |
| Diatomite                                   | 79.4            | 87.6            | 51.5            | 55.0            | 45.2            |
| Gold  | 1,510.8         | 2,041.3         | 1,408.0         | 685.1           | 1,440.9         |
| Gemstones(cut) <sup>2</sup>                 | 128.6           | 107.5           | 84.9            | 91.7            | 159.0           |
| Gemstones (rough) <sup>2</sup>              | 238.3           | 416.5           | 440.0           | 100.6           | 476.5           |
| Titanium Ore Minerals                       | 18,526.8        | 20,297.6        | 19,643.0        | 19,487.9        | 25,635.9        |
| Illmenite                                   | 7,719.0         | 6,617.9         | 5,425           | 6,623.4         | 10,155.1        |
| Rutile                                      | 6,646           | 8,469.8         | 9,587           | 8,804.4         | 11,264.3        |
| Zircon                                      | 4,162           | 5,209.9         | 4,631           | 4,060.1         | 4,216.6         |
| <b>Total</b>                                | <b>24,070.5</b> | <b>25,751.3</b> | <b>24,143.3</b> | <b>22,663.8</b> | <b>30,247.2</b> |

Source: Ministry of Petroleum and Mining and Mining Companies

\* Provisional

<sup>1</sup> Fluorspar mining ceased operations

<sup>2</sup> Gemstones include corundum,garnets and vermiculite

**8.16.** Table 8.10 shows the average export prices of selected minerals. The export price of Soda Ash declined by 6.0 per cent from KSh 22,778.8 in 2020 to KSh 21,416.1 per tonne in 2021. On the other hand, export price of the Titanium Ore and Concentrates

rose by 13.7 per cent to KSh47,445.2 per tonne in 2021 from KSh 41,746.5 per tonne recorded in the previous period, leading to an increase in production value during the review period.

**Table 8.10: Average Export Prices of Selected Minerals, 2017 – 2021**

| Mineral                       | 2017     | 2018     | 2019     | 2020     | KSh per tonne<br>2021 |
|-------------------------------|----------|----------|----------|----------|-----------------------|
| Soda Ash                      | 20,694.4 | 22,642.4 | 23,999.5 | 22,778.8 | 21,416.1              |
| Fluorspar <sup>1</sup>        | 17,794.7 | 0        | 0        | 0        | 0                     |
| Titanium Ore and Concentrates | 25,840.5 | 27,249.4 | 32,555.6 | 41,746.5 | 47,445.2              |

Source: Kenya Revenue Authority, Kenya National Bureau of Statistics

<sup>1</sup> Flourspar mining ceased operations

## Wildlife

**8.17.** Kenyan rangelands area home to wide range of wildlife, which are a major tourist attraction. The wildlife populations in the Kenya rangelands are presented in Table 8.11(a). Notable increases in 2021 were recorded for eland, buffalo, giraffe and burchell's

zebra. However, there were higher decreases in the estimated number of waterbuck, kudu, wildebeest and grant's gazelle. The declines were mainly attributed to unfavorable climate during the review period.

**Table 8.11(a): Wildlife Population Estimates in the Kenya Rangelands, 2017 – 2021**

| Species <sup>1</sup> | 2017  | 2018  | 2019  | 2020  | '000 Number<br>2021* |
|----------------------|-------|-------|-------|-------|----------------------|
| Buffalo              | 17.8  | 19.6  | 19.1  | 25.7  | 35.5                 |
| Burchell's Zebra     | 104.5 | 108.8 | 107.5 | 105.0 | 119.8                |
| Eland                | 5.3   | 5.4   | 5.6   | 7.5   | 11.6                 |
| Gerenuk              | 11.4  | 10.8  | 10.7  | 11.7  | 13.0                 |
| Giraffe <sup>2</sup> | 17    | 19.9  | 18    | 22.3  | 30.5                 |
| Grant's Gazelle      | 106.5 | 105.3 | 103.9 | 101.0 | 68.7                 |
| Grey's Zebra         | 2.6   | 2.8   | 2.7   | 2.6   | 2.7                  |
| Hunters Hartebeest   | 0.4   | 0.3   | 0.3   | 0.3   | 0.3                  |
| Impala               | 55.1  | 48.9  | 47.5  | 36.2  | 26.5                 |
| Kongoni              | 5.2   | 6.3   | 6.2   | 6.5   | 7.3                  |
| Kudu <sup>3</sup>    | 9.4   | 8.7   | 8.6   | 7.2   | 4.6                  |
| Oryx                 | 9.5   | 12.3  | 12.2  | 12.2  | 12.0                 |
| Ostrich              | 26.9  | 27.2  | 27.5  | 25.1  | 21.8                 |
| Thomson's Gazelle    | 40.5  | 38.2  | 38.1  | 35.0  | 28.3                 |
| Topi                 | 12.0  | 12.7  | 11.4  | 10.8  | 10.1                 |
| Warthog              | 14.4  | 13.5  | 14.0  | 13.5  | 12.7                 |
| Waterbuck            | 2.6   | 2.5   | 2.4   | 2.5   | 1.2                  |
| Wildebeest           | 228.0 | 289.0 | 285.0 | 225.0 | 148.0                |

Source: Directorate of Resource Surveys and Remote Sensing

\* Provisional

<sup>1</sup> Derived using aerial sample surveys

<sup>2</sup> Include the Masai Reticulated Giraffes

<sup>3</sup> Includes the Greater and Lesser Kudus

**8.18.** Population of endangered wildlife species is shown in Table 8.11(b). The number of elephants increased from 34.1 thousand in 2020 to 36.3 thousand in 2021 while the number of lions increased by 4.0 per cent to 2.6 thousand in 2021.

**Table 8.11(b): Endangered Wildlife Population Estimates in Kenya<sup>1</sup>, 2017 – 2021**

| <b>Species</b>   | <b>Number</b> |             |             |             |              |
|------------------|---------------|-------------|-------------|-------------|--------------|
|                  | <b>2017</b>   | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>2021*</b> |
| Elephant         | 34,214        | 33,519      | 34,487      | 34,125      | 36,280       |
| Black Rhino      | 696           | 766         | 794         | 853         | 938          |
| White rhino      | 450           | 622         | 645         | 750         | 871          |
| Hirola Antelope  | 0             | 430         | 0           | 475         | 497          |
| Mountain Bongo   | 125           | 125         | 100         | 96          | 157          |
| Lions            | 2,000         | 2,000       | 2,000       | 2,489       | 2,589        |
| Roan Antelope    | 16            | 19          | 11          | 15          | 18           |
| Sable Antelope   | 60            | 60          | 60          | 51          | 51           |
| Spotted hyena    | 2000 - 4000   | 2,000-4,000 | 2000 - 4000 | 5,147       | 5,147        |
| Cheetah          | 1,160         | 1,160       | 1,160       | 1,160       | 1,160        |
| African wild dog | 865           | 865         | 865         | 865         | 865          |

Source: Wildlife Research and Training Institute

\* Provisional

<sup>1</sup>The constant number for some species are population estimates from studies done

### Refuse Management

**8.19.** The status of refuse collection in Nairobi City, Mombasa and Kisumu Counties is as shown Table 8.12. The trend in the level of solid waste collection indicate the extent to which solid waste is being managed. In Nairobi City County, 76.7 per cent of solid waste generated was collected compared to 56.5

per cent and 30.0 per cent of solid waste which was collected in Mombasa and Kisumu counties, respectively during the year under review. The proportion of solid waste not collected demonstrates challenges in refuse management.

**Table 8.12: Solid Waste Generation and Collection, 2017 – 2021**

| <b>County</b> |           | <b>'000 Tonnes</b> |             |             |             |              |
|---------------|-----------|--------------------|-------------|-------------|-------------|--------------|
|               |           | <b>2017</b>        | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>2021*</b> |
| Nairobi City  | Generated | 1,262.0            | 1,326.9     | 1,653.0     | 1,970.7     | 2,301.2      |
|               | Collected | 948.9              | 997.7       | 1,242.8     | 1,481.7     | 1,765.8      |
| Mombasa+      | Generated | 730.0              | 804.0       | 879.0       | 914.0       | 920.0        |
|               | Collected | 183.0              | 450.0       | 405.0       | 420.0       | 520.0        |
| Kisumu        | Generated | 211.2              | 215.8       | 220.4       | 224.8       | 229.3        |
|               | Collected | 63.3               | 64.7        | 66.1        | 67.4        | 68.8         |

Source: Nairobi City, Kisumu & Mombasa County Governments

\* Provisional

+ Revised

Note: Solid waste generated for the three counties are estimates

## Environment Impact Assessments

**8.20.** The number of Environment Impact Assessments (EIAs) by sectors from 2017 to 2021 are as shown in Table 8.13. The EIAs are conducted to assess environmental impact of various proposed development projects in the country. In 2021, the

total number of EIAs increased by 38.6 per cent to 115 from 83 in 2020, occasioned by the increased compliance within the sectors due to heightened enforcements. Human Settlements and Infrastructure sectors recorded the highest number of EIAs in 2021.

**Table 8.13: Number of Environment Impact Assessments (EIAs) by Sector, 2017–2021**

| Sector                               | 2017         | 2018         | 2019         | 2020      | Number<br>2021* |
|--------------------------------------|--------------|--------------|--------------|-----------|-----------------|
| Transport and Communication          | 522          | 1,044        | 215          | 8         | 12              |
| Energy                               | 501          | 436          | 222          | 11        | 11              |
| Tourism                              | 8            | 14           | 6            | 2         | 2               |
| Mining and Quarrying                 | 51           | 66           | 65           | 3         | 11              |
| Human Settlements and Infrastructure | 434          | 495          | 302          | 34        | 49              |
| Agriculture and Forestry             | 31           | 38           | 28           | 9         | 4               |
| Commerce and Industry                | 228          | 269          | 193          | 8         | 10              |
| Water Resources                      | 67           | 94           | 46           | 8         | 16              |
| <b>TOTAL</b>                         | <b>1,842</b> | <b>2,456</b> | <b>1,077</b> | <b>83</b> | <b>115</b>      |

Source: National Environment Management Authority (NEMA)

\* Provisional

## Environmental Audits

**8.21.** Table 8.14 shows the number of Environmental Audits (EAs) by sector submitted to NEMA from the completed projects. During the review period, the number of EAs reports submitted to NEMA increased to 2.6 thousand up from 2.0 thousand reported in

2020. Commerce and Industry, and the Energy sectors continued to have the highest number of EAs reported at 898 and 854, respectively. Water Resources and Human Settlements and Infrastructure sectors registered the lowest EAs during the review period.

**Table 8.14: Number of Environmental Audits (EAs) by Sector, 2017–2021**

| Sector                               | 2017         | 2018         | 2019         | 2020         | Number<br>2021 |
|--------------------------------------|--------------|--------------|--------------|--------------|----------------|
| Transport and Communication          | 2,241        | 1,489        | 1,973        | 426          | 114            |
| Energy                               | 1,353        | 1,510        | 1,558        | 923          | 854            |
| Tourism                              | 173          | 117          | 159          | 70           | 165            |
| Mining and Quarrying                 | 19           | 38           | 44           | 36           | 116            |
| Human Settlements and Infrastructure | 57           | 90           | 76           | 84           | 64             |
| Agriculture and Forestry             | 58           | 65           | 104          | 63           | 366            |
| Commerce and Industry                | 218          | 397          | 460          | 426          | 898            |
| Water Resources                      | 12           | 16           | 23           | 10           | 37             |
| <b>TOTAL</b>                         | <b>4,131</b> | <b>3,722</b> | <b>4,397</b> | <b>2,038</b> | <b>2,614</b>   |

Source: National Environment Management Authority (NEMA)

\* Provisional

## Rainfall

**8.22.** The Long Rains season March-April-May (MAM) for 2021 were suppressed in most parts of the country as shown in Figure 8.2. Kisii station recorded the highest rainfall while Kakamega recorded the second highest rainfall amounts in the season. Other

stations which recorded high amounts of rainfalls were Kericho, Meru, Kisumu and Dagoretti. Garissa, Lamu and Voi stations recorded quite low rainfall amounts in 2021 compared to their Long-Term Means (LTM).

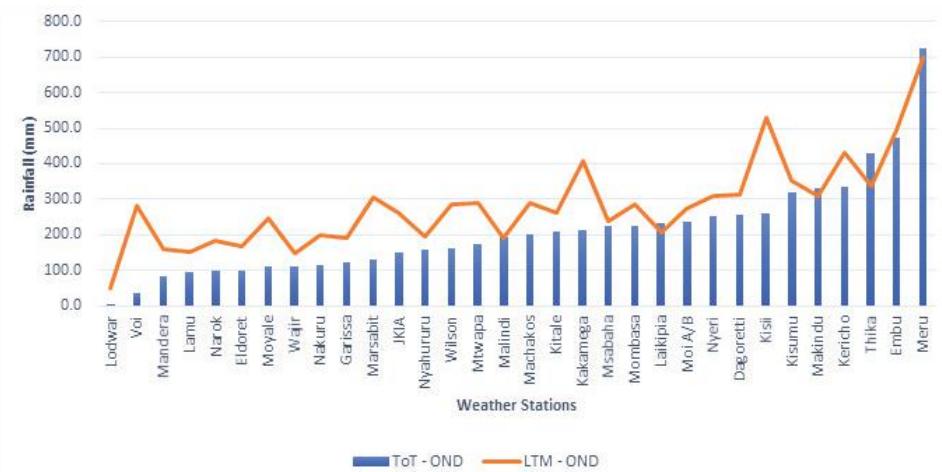
**Figure 8.2: Long Rains (March-April-May) Performance, 2021**



**8.23.** Figure 8.3 shows the performance of the Short Rains for 2021. Analysis of the October-November-December (OND) 2021 seasonal rainfall indicates that most stations recorded below normal rainfall.

The highest seasonal rainfall was recorded at Meru station. Other stations that recorded high amounts of rainfall are Embu and Thika. Lodwar station reported the lowest amounts of rainfall.

**Figure 8.3: Short Rains (October-November-December) Performance, 2021**



Source: Kenya Meteorological Department

**8.24.** Table 8.15 shows the average annual rainfall from the eight meteorological regions recorded for the past ten years. Generally, all regions recorded reduced amount of rainfall compared to the previous

year. The Western region received the highest rainfall in 2021 at 1,534.5 millimetres while the North Western part of the country received the least amount of rainfall of 176.5 millimetres.

**Table 8.15: Mean Annual Rainfall by Region, 2012-2021**

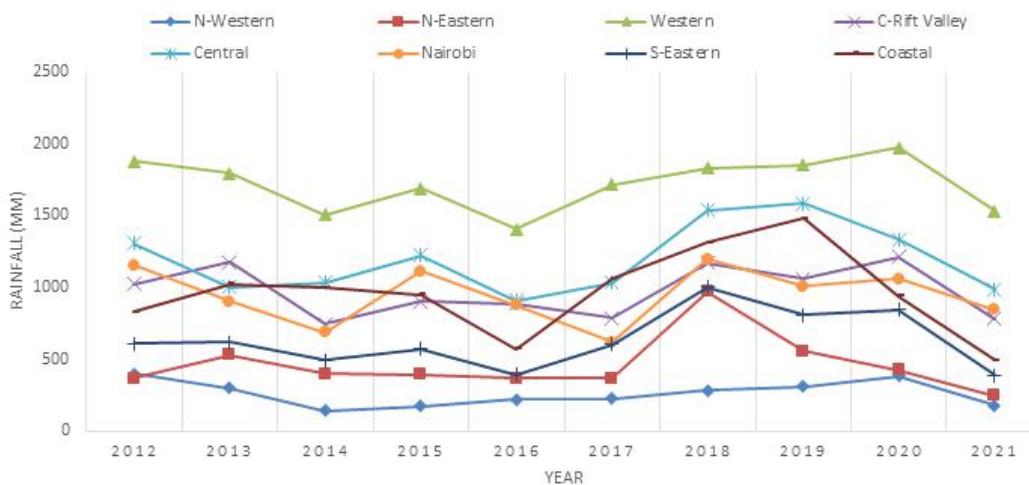
| Region        | 2012   | 2013   | 2014   | 2015   | 2016   | 2017   | 2018   | 2019   | 2020   | 2021   | Millimetres |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| N-Western     | 399    | 296    | 139.3  | 170    | 219.3  | 226.23 | 282.7  | 309.5  | 380.8  | 176.5  |             |
| N-Eastern     | 367.5  | 529    | 396.6  | 394.2  | 367    | 367.7  | 971.3  | 555.3  | 427    | 247.7  |             |
| Western       | 1880   | 1793.6 | 1508.4 | 1690.8 | 1407.2 | 1715.1 | 1830.5 | 1855.1 | 1971.7 | 1534.5 |             |
| C-Rift Valley | 1024.8 | 1173.5 | 744    | 901.8  | 888.7  | 786.3  | 1169.9 | 1062.6 | 1212.5 | 784.1  |             |
| Central       | 1305.2 | 1000.5 | 1032.9 | 1224.3 | 908.4  | 1033.4 | 1540.2 | 1582.8 | 1334.2 | 987.9  |             |
| Nairobi       | 1154.5 | 902    | 686.8  | 1110   | 877.2  | 618.1  | 1195.5 | 1006.3 | 1061   | 846.4  |             |
| S-Eastern     | 608.2  | 621    | 491.5  | 573.4  | 392.7  | 601.6  | 1004.2 | 807.9  | 843.1  | 388.4  |             |
| Coastal       | 829.6  | 1020.8 | 997.5  | 947.3  | 571.1  | 1061.2 | 1314.2 | 1482   | 938.5  | 495.2  |             |

Source: Kenya Meteorological Department

**8.25.** Figure 8.4 shows the trends of mean annual rainfall from the meteorological stations across the country. Generally, the amount of rainfall received from all the regions in 2021 was poor compared to

rainfall amounts experienced in the previous year. The coastal region experienced continued reduction in rainfall for the two-year period, 2020 and 2021, as compared to the trend up to the year 2019.

**Figure 8.4: Mean Annual Rainfall by Region, 2012-2021**



### Temperature

**8.26.** The mean annual, maximum and minimum temperatures by meteorological region are shown in Table 8.16. The mean maximum temperatures for the country increased from 28.1 degrees Celsius in 2020 to 28.6 degrees Celsius in 2021. The highest maximum temperature during the year was recorded in the North Western region, represented by the Lodwar station at 36.1 degrees Celsius.

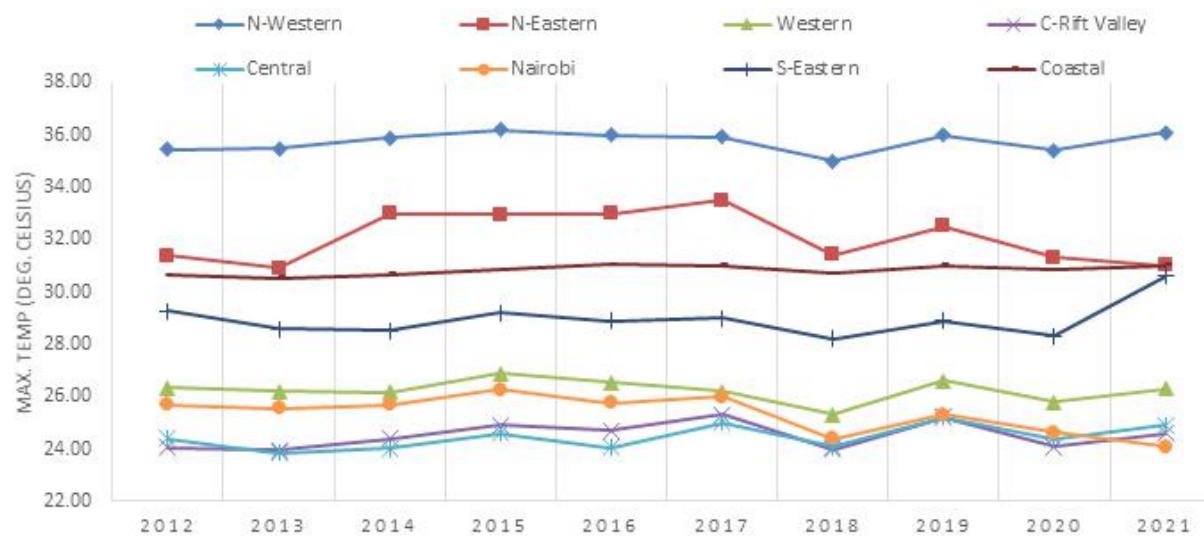
**8.27.** The mean annual minimum temperatures decreased generally during 2021 except the South Eastern region which recorded an increase from 17.3 degrees Celsius in 2020 to 18.9 degrees Celsius in 2021. The overall minimum temperatures for the country decreased marginally from 17.8 degrees Celsius in 2020 to 17.5 degrees Celsius in 2021.

**Table 8.16: Mean Annual Maximum and Minimum Temperatures by Region, 2012-2021**

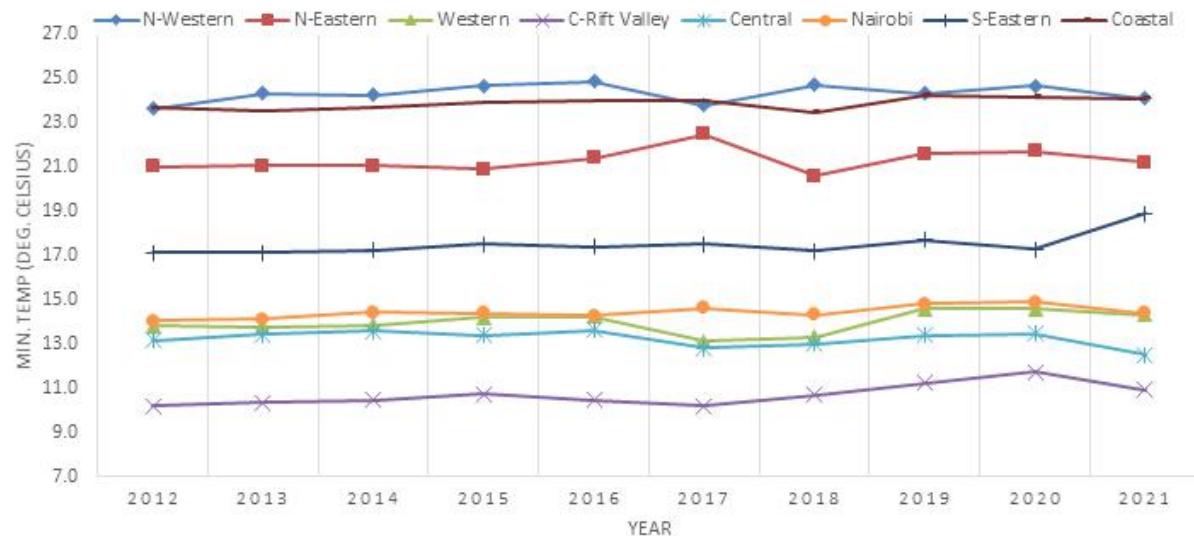
| Region                      | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | Degrees Celsius |
|-----------------------------|------|------|------|------|------|------|------|------|------|------|-----------------|
| <b>Maximum Temperatures</b> |      |      |      |      |      |      |      |      |      |      |                 |
| N-Western                   | 35.4 | 35.5 | 35.9 | 36.2 | 36.0 | 35.9 | 35.0 | 36.0 | 35.4 | 36.1 |                 |
| N-Eastern                   | 31.4 | 30.9 | 33.0 | 32.9 | 33.0 | 33.5 | 31.4 | 32.5 | 31.3 | 31.0 |                 |
| Western                     | 26.3 | 26.2 | 26.2 | 26.9 | 26.6 | 26.2 | 25.3 | 26.6 | 25.8 | 26.3 |                 |
| C-Rift Valley               | 24.1 | 24.0 | 24.4 | 24.9 | 24.7 | 25.3 | 24.0 | 25.2 | 24.1 | 24.6 |                 |
| Central                     | 24.4 | 23.9 | 24.0 | 24.6 | 24.0 | 25.0 | 24.1 | 25.2 | 24.4 | 24.9 |                 |
| Nairobi                     | 25.7 | 25.5 | 25.7 | 26.3 | 25.8 | 26.0 | 24.4 | 25.3 | 24.7 | 24.1 |                 |
| S-Eastern                   | 29.3 | 28.6 | 28.5 | 29.2 | 28.9 | 29.0 | 28.2 | 28.9 | 28.3 | 30.6 |                 |
| Coastal                     | 30.6 | 30.5 | 30.7 | 30.9 | 31.0 | 31.0 | 30.7 | 31.0 | 30.8 | 31.0 |                 |
| Country                     | 28.4 | 28.1 | 28.5 | 29.0 | 28.7 | 29.0 | 27.9 | 28.8 | 28.1 | 28.6 |                 |
| <b>Minimum Temperatures</b> |      |      |      |      |      |      |      |      |      |      |                 |
| N-Western                   | 23.6 | 24.3 | 24.2 | 24.7 | 24.9 | 23.8 | 24.7 | 24.3 | 24.7 | 24.1 |                 |
| N-Eastern                   | 21.0 | 21.1 | 21.1 | 20.9 | 21.4 | 22.5 | 20.6 | 21.6 | 21.7 | 21.2 |                 |
| Western                     | 13.8 | 13.8 | 13.8 | 14.2 | 14.2 | 13.1 | 13.3 | 14.6 | 14.6 | 14.3 |                 |
| C-Rift Valley               | 10.2 | 10.3 | 10.4 | 10.7 | 10.5 | 10.2 | 10.7 | 11.2 | 11.7 | 10.9 |                 |
| Central                     | 13.1 | 13.4 | 13.6 | 13.4 | 13.6 | 12.8 | 13.0 | 13.4 | 13.5 | 12.5 |                 |
| Nairobi                     | 14.0 | 14.1 | 14.4 | 14.4 | 14.3 | 14.6 | 14.3 | 14.8 | 14.9 | 14.4 |                 |
| S-Eastern                   | 17.1 | 17.1 | 17.2 | 17.5 | 17.4 | 17.5 | 17.2 | 17.7 | 17.3 | 18.9 |                 |
| Coastal                     | 23.7 | 23.5 | 23.7 | 23.9 | 24.0 | 24.0 | 23.5 | 24.3 | 24.2 | 24.1 |                 |
| Country                     | 17.1 | 17.2 | 17.3 | 17.5 | 17.5 | 17.3 | 17.2 | 17.7 | 17.8 | 17.5 |                 |

Source: Kenya Meteorological Department

**8.28.** Figure 8.5 shows the trend of mean maximum temperatures for various meteorological regions. In general, the average maximum temperatures for all the regions increased except for Nairobi and North Eastern region which dropped in 2021. South Eastern region experienced higher increase in maximum temperatures during the review period.

**Figure 8.5: Mean Annual Maximum Temperatures, 2012-2021**

**8.29.** Figure 8.6 shows the mean annual minimum temperatures recorded from 2012 to 2021. There was a notable increase in minimum temperatures for the South Eastern region experienced in 2021 compared to 2020.

**Figure 8.6: Mean Annual Minimum Temperatures, 2012-2021**



# Energy

## Overview

The global economy recovered significantly in 2021 despite the existence of the COVID-19 pandemic and the emergence of multiple new variants with varying severity and influence on the world economy and oil demand. Easing of pandemic-related restrictions, increasing COVID-19 vaccination rates, and a growing world economy resulted in a rise in global petroleum demand, which occasioned notable improvement in the oil market in 2021. Following increased demand for global oil, Murban Adnoc Crude oil prices averaged US Dollars 78.95 per barrel in the fourth quarter of 2021 registering a marked increase of 28.95 US Dollars per barrel from the first quarter of 2021.

**9.2.** Total volume of petroleum products imported into the country rose by 12.0 per cent to 6.4 million tonnes in 2021. During the same period, total exports of petroleum products dropped by 26.6 per cent to 610.8 thousand tonnes. The total import bill of petroleum products increased to KSh 348.3 billion in 2021 from KSh 209.1 billion in 2020.

**9.3.** Total installed electricity capacity increased from 2,863.7 MW in 2020 to 2,989.6 MW in 2021. Consequently, effective electricity generation capacity rose by 5.6 per cent to 2,857.6 MW in 2021. Total electricity generation rose to 12,347.0 GWh in the review period. Thermal and wind power generation rose significantly by 67.3 per cent and 49.1 per cent to 1,262.0 MW and 1,984.8 MW, respectively in 2021. Reduced rainfall experienced in 2021 resulted to a 13.2 per cent decrease in hydro generation to 3675.0 GWh.

**9.4** Total electricity demand increased from 11,603.6 GWh in 2020 to 12,414.7 GWh in 2021. Domestic demand for electricity increased by 8.7 per cent to 9,565.4 GWh in 2021. Sales to large and medium commercial category rose by 10.5 per cent to 4,728.4 GWh in the review period. Sales of electricity for street lighting category increased by 33.7 per cent to 99.6 GWh in 2021. Transmission and distributive losses amounted to 2,831.0 GWh, accounting for 23.3 per cent of total domestic generation in 2021.

### Petroleum

**9.5.** Table 9.1 presents quantities and values of exports and imports of petroleum products for the period 2017 to 2021. The quantity of petroleum products imported increased by 12.0 per cent to 6.4 million tonnes in 2021. In the same period, the total volume of petroleum exports decreased from 832.1 thousand tonnes in

2020 to 610.8 thousand tonnes in 2021. the volume of re-exports to total exports dropped marginally from 96.6 per cent in 2020 to 96.3 per cent in 2021.

**9.6.** Total import bill of petroleum products rose to KSh 348.3 billion in 2021 from KSh 209.1 billion in 2020. This was mainly attributed to the recovery of the road transport and aviation sectors, which pushed up demand for petroleum products following

the easing of COVID-19 containment measures. The value of total exports of petroleum products declined by 30.6 per cent to KSh 29.5 billion in 2021. The value of domestic exports of petroleum products increased by 1.4 per cent to KSh 5.3 billion in 2021. As a result, net balance increased from KSh 166.6 billion in 2020 to KSh 318.8 billion in 2021.

**Table 9.1: Quantity and Value of Imports, Exports and Re-exports of Petroleum Products, 2017-2021**

| Petroleum Prod-<br>ucts        | Quantity ('000 Tonnes) |                |                |                |                | Value (KSh Million) |                  |                  |                  |                  |
|--------------------------------|------------------------|----------------|----------------|----------------|----------------|---------------------|------------------|------------------|------------------|------------------|
|                                | 2017                   | 2018           | 2019           | 2020           | 2021*          | 2017                | 2018             | 2019             | 2020             | 2021*            |
| <b>IMPORTS</b>                 |                        |                |                |                |                |                     |                  |                  |                  |                  |
| Petroleum Fuels <sup>1</sup>   | 6,334.0                | 6,101.8        | 6,425.4        | 5,723.0        | 6,409.3        | 262,770.0           | 325,247.5        | 313,821.0        | 206,826.0        | 345,447.2        |
| Lubricating Oils               | 11.2                   | 10.0           | 10.9           | 9.4            | 9.2            | 1,999.0             | 1,955.9          | 2,139.8          | 1,796.3          | 2,046.9          |
| Lubricating Greases            | 2.5                    | 2.6            | 3.2            | 2.7            | 3.4            | 484.6               | 574.2            | 642.5            | 510.0            | 812.9            |
| <b>TOTAL</b>                   | <b>6,347.7</b>         | <b>6,114.4</b> | <b>6,439.6</b> | <b>5,735.1</b> | <b>6,421.9</b> | <b>265,253.6</b>    | <b>327,777.6</b> | <b>316,603.4</b> | <b>209,132.3</b> | <b>348,307.0</b> |
| <b>DOMESTIC EXPORTS</b>        |                        |                |                |                |                |                     |                  |                  |                  |                  |
| Petroleum Fuels <sup>1</sup>   | 6.4                    | 8.4            | 7.0            | 2.3            | 0.4            | 368.6               | 588.0            | 465.6            | 169.5            | 35.8             |
| Lubricating Oils               | 25.9                   | 19.3           | 16.1           | 25.8           | 22.4           | 4,618.4             | 3,646.9          | 3,100.0          | 5,001.3          | 5,210.9          |
| Lubricating Greases            | 0.1                    | 0.1            | 0.1            | 0.1            | 0.1            | 26.5                | 14.2             | 11.0             | 19.0             | 16.6             |
| <b>TOTAL</b>                   | <b>32.4</b>            | <b>27.7</b>    | <b>23.2</b>    | <b>28.2</b>    | <b>22.9</b>    | <b>5,013.6</b>      | <b>4,249.1</b>   | <b>3,576.7</b>   | <b>5,189.8</b>   | <b>5,263.3</b>   |
| <b>RE-EXPORTS</b>              |                        |                |                |                |                |                     |                  |                  |                  |                  |
| Petroleum Fuels <sup>1</sup>   | 809.7                  | 705.6          | 743.2          | 802.7          | 581.7          | 31,079.4            | 33,264.5         | 37,945.9         | 37,145.8         | 22,848.9         |
| Lubricating Oils               | 0.3                    | 6.4            | 10.1           | 1.3            | 6.3            | 43.5                | 1,279.7          | 1,988.8          | 241.4            | 1,430.4          |
| Lubricating Greases            | 0.0                    | 0.1            | 0.1            | 0.0            | 0.0            | 5.2                 | 45.6             | 38.2             | 3.5              | 0.0              |
| <b>TOTAL</b>                   | <b>810.0</b>           | <b>712.1</b>   | <b>753.4</b>   | <b>803.9</b>   | <b>587.9</b>   | <b>31,128.1</b>     | <b>34,589.8</b>  | <b>39,972.9</b>  | <b>37,390.7</b>  | <b>24,279.3</b>  |
| <b>TOTAL<br/>EXPORTS</b>       | <b>842.4</b>           | <b>739.8</b>   | <b>776.6</b>   | <b>832.1</b>   | <b>610.8</b>   | <b>36,141.7</b>     | <b>38,839.0</b>  | <b>43,549.6</b>  | <b>42,580.5</b>  | <b>29,542.6</b>  |
| <b>NET BALANCE<sup>2</sup></b> |                        |                |                |                |                | <b>229,111.9</b>    | <b>288,938.6</b> | <b>273,053.7</b> | <b>166,551.9</b> | <b>318,764.4</b> |

Source: Ministry of Petroleum and Mining; and Energy & Petroleum Regulatory Authority

\* Provisional.

<sup>1</sup> Adjustment for inventory changes and losses

<sup>2</sup> Net balance refers to the difference in monetary value of a Nation's exports and imports over a certain period.

**9.7.** Table 9.2 presents a breakdown of supply and demand for petroleum products for the period 2017 to 2021. Total domestic demand for petroleum products increased by 11.0 per cent to 5.2 million tonnes in 2021. This was attributed to the increase in the demand for jet fuel and fuel oil by 28.4 per cent and 24.3 per cent, respectively in the review period as a result of the opening up of the economy and resumption of air travel across the world. In contrast, demand for Heavy Diesel Oil and Aviation Spirit recorded significant decline of 55.5 per cent and 27.3

per cent to 0.8 thousand tonnes and 1.4 thousand tonnes, respectively, in 2021. Demand for Liquified Petroleum Gas (LPG) remained high, further increasing by 13.9 per cent to 371.4 thousand tonnes while that of Illuminating Kerosene continued to decline to 111.3 thousand tonnes in 2021. This implies sustained use of LPG following continued government policy to promote use of clean energy. Net imports of petroleum fuel increased by 18.4 per cent from 4.9 million tonnes in 2020 to 5.8 million tonnes in 2021.

**Table 9.2: Petroleum Supply and Demand, 2017-2021**

| Petroleum Fuels                | 2017           | 2018           | 2019           | 2020           | 2021*          | '000 Tonnes |
|--------------------------------|----------------|----------------|----------------|----------------|----------------|-------------|
| <b>DEMAND -</b>                |                |                |                |                |                |             |
| Liquefied Petroleum Gas        | 189.3          | 222.3          | 312.1          | 326.2          | 371.4          |             |
| Motor Spirit (Premium)         | 1,267.4        | 1,359.0        | 1,434.3        | 1,395.3        | 1,554.4        |             |
| Aviation Spirit                | 3.8            | 18.8           | 10.2           | 1.9            | 1.4            |             |
| Jet/Turbo Fuel                 | 649.7          | 674.4          | 699.4          | 394.8          | 506.8          |             |
| Illuminating Kerosene          | 448.0          | 339.4          | 168.3          | 127.0          | 111.3          |             |
| Light Diesel Oil               | 2,086.2        | 2,173.1        | 2,198.7        | 2,157.6        | 2,305.7        |             |
| Heavy Diesel Oil               | 1.2            | 0.2            | 1.3            | 1.8            | 0.8            |             |
| Fuel Oil                       | 525.0          | 402.0          | 382.8          | 273.9          | 340.3          |             |
| <b>TOTAL DOMESTIC DEMAND</b>   | <b>5,170.6</b> | <b>5,189.2</b> | <b>5,207.1</b> | <b>4,678.5</b> | <b>5,192.1</b> |             |
| Exports of petroleum fuels     | 6.4            | 8.4            | 7.0            | 2.3            | 0.4            |             |
| <b>TOTAL DEMAND</b>            | <b>5,177.0</b> | <b>5,197.6</b> | <b>5,214.1</b> | <b>4,680.8</b> | <b>5,192.5</b> |             |
| <b>SUPPLY</b>                  |                |                |                |                |                |             |
| Net imports of petroleum fuels | 5,524.2        | 5,396.3        | 5,682.2        | 4,920.4        | 5,827.6        |             |
| Adjustment <sup>1</sup>        | 347.2          | 198.6          | 468.1          | 239.5          | 635.1          |             |
| <b>TOTAL SUPPLY</b>            | <b>5,177.0</b> | <b>5,197.6</b> | <b>5,214.1</b> | <b>4,680.8</b> | <b>5,192.5</b> |             |

Source: Ministry of Petroleum and Mining; and Energy & Petroleum Regulatory Authority

\* Provisional.

<sup>1</sup> Adjustment for inventory changes and losses

**9.8.** Net domestic sales of petroleum fuels by consumer category for the period 2017 to 2021 are presented in Table 9.3. Total net domestic sales of petroleum fuels increased by 11.0 per cent in 2021 to 5.2 million tonnes attributed to the robust recovery of the economy in 2021 which drove a rise in fuel demand. All sectors except tourism registered a rise in net domestic sales of petroleum products in 2021. Fuel sales to sectors involved in power generation

increased by 94.5 per cent to 147.5 thousand tonnes in 2021. Similarly, fuel sales for rail transport almost doubled from 11.4 thousand tonnes in 2020 to 19.4 thousand tonnes in 2021.

Domestic sales to the aviation sector increased by 27.2 per cent to 499.4 thousand tonnes while those to the tourism sector decreased by 7.1 per cent to 6.0 thousand tonnes in 2021.

**Table 9.3: Net Domestic Sales of Petroleum Fuels by Consumer Category, 2017-2021**

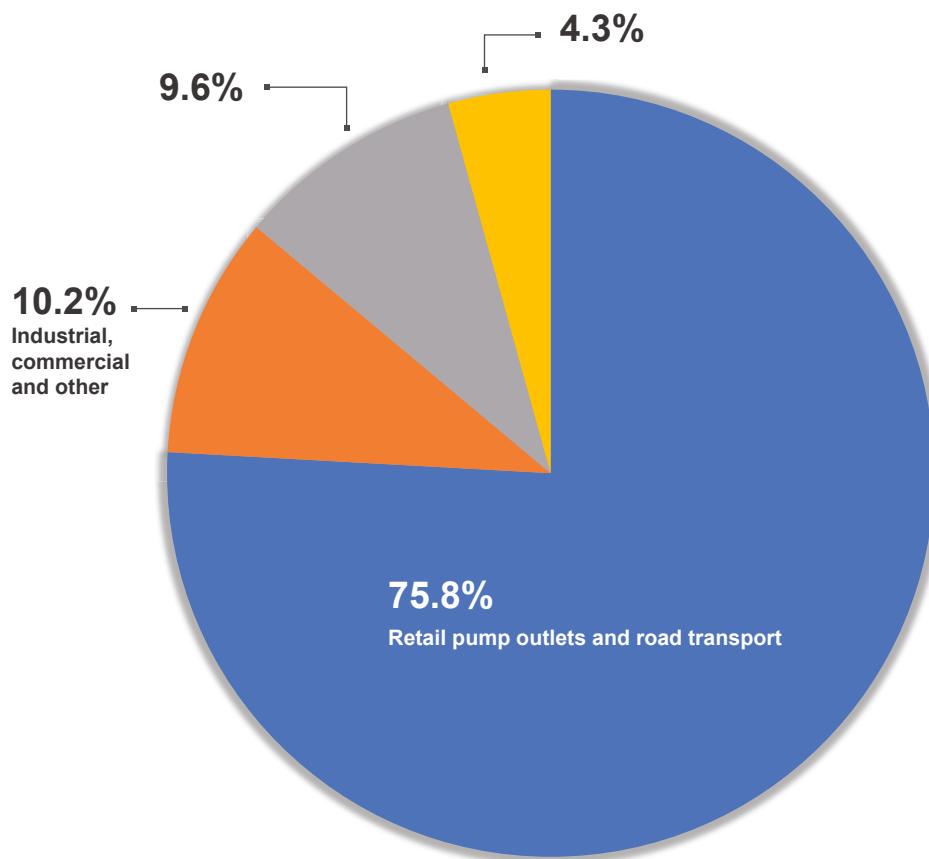
| Category                                | 2017           | 2018           | 2019           | 2020           | '000 Tonnes<br>2021* |
|---|----------------|----------------|----------------|----------------|----------------------|
| Agriculture                             | 57.4           | 59.7           | 25.7           | 24.8           | 26.6                 |
| Retail pump outlets and road transport. | 3,541.2        | 3,743.0        | 3,752.0        | 3,650.5        | 3,937.8              |
| Rail transport                          | 11.8           | 12.3           | 19.0           | 11.4           | 19.4                 |
| Tourism <sup>1</sup>                    | 9.1            | 9.5            | 13.9           | 6.5            | 6.0                  |
| Marine (excl. Naval Forces)             | 6.2            | 5.1            | 5.6            | 1.1            | 2.1                  |
| Aviation (excl. Government)             | 644.5          | 671.4          | 710.8          | 392.7          | 499.4                |
| Power Generation                        | 44.7           | 34.2           | 29.1           | 75.8           | 147.5                |
| Industrial, Commercial and Other        | 837.2          | 635.1          | 635.5          | 494.4          | 530.5                |
| Government                              | 18.5           | 18.7           | 15.6           | 21.5           | 22.8                 |
| Balancing Item .                        | 0.0            | 0.1            | 0.0            | 0.0            | 0.0                  |
| <b>TOTAL</b>                            | <b>5,170.6</b> | <b>5,189.2</b> | <b>5,207.1</b> | <b>4,678.5</b> | <b>5,192.1</b>       |

Source: Ministry of Petroleum and Mining and Energy & Petroleum Regulatory Authority

\* Provisional

<sup>1</sup> Comprises sales to tour operators

**9.9.** Figure 9.1 depicts the proportion of petroleum fuels sold to major consumer categories in 2021. Sales to retail pump outlets and road transport had the highest share of the total petroleum fuels sold at 75.8 per cent in 2021. This was followed by industrial, commercial and other category at 10.2 per cent and aviation category at 9.6 per cent of total sales respectively, in the same period.

**Figure 9.1: Percentage Sales of Petroleum Fuels by Major Consumer Category, 2021**

**9.10.** Average wholesale prices of petroleum fuels in Mombasa for the period 2017 to 2021 for the month of December are presented in Table 9.4. Prices for all the fuels were higher in December 2021 compared to December 2020. Wholesale price for Illuminating Kerosene increased by 22.0 per cent to KSh 87,543 per tonne in 2021. Similarly, prices of Light Diesel oil and Motor Spirit (premium) increased by 19.9 per cent and 19.1 per cent to KSh 95,925 per tonne and KSh 113,166 per tonne, respectively, in the review period.

**Table 9.4: Wholesale Prices<sup>1</sup> of Petroleum Fuels in Mombasa, for the month of December, 2017-2021**

| Product                | 2017   | 2018    | 2019    | 2020   | 2021    | KSh per Tonne |
|------------------------|--------|---------|---------|--------|---------|---------------|
| Motor Spirit (Premium) | 99,660 | 109,340 | 100,660 | 95,000 | 113,166 |               |
| Illuminating kerosene  | 66,910 | 101,020 | 93,460  | 71,740 | 87,543  |               |
| Light diesel oil       | 87,930 | 108,080 | 92,930  | 80,010 | 95,925  |               |

Source: Energy and Petroleum Regulatory Authority

<sup>1</sup>Including duties and VAT.

**9.11.** During the period under review, there was a gradual easing of protocols earlier instituted to contain the COVID-19 pandemic. This led to increased demand for oil products resulting to a steady rise in Murban crude oil prices. Globally oil prices rebounded significantly despite the emergence of other COVID-19 variants in 2021.

**9.12.** Table 9.5 presents prices of Murban crude oil for the period 2017 to 2021. The average annual

price of Murban crude oil increased sharply from USD 41.45 per barrel in 2020 to USD 69.72 per barrel in 2021. This was occasioned by increased demand for crude oil globally on account of robustly recovering economies.

The highest price of the Murban crude oil of USD 82.11 per barrel was recorded in October 2021 while the lowest price of USD 54.38 per barrel was recorded in January 2021.

**Table 9.5: Average Murban ADNOC Prices<sup>1</sup>, 2017-2021**

| Month/Year     | 2017  | 2018  | 2019  | 2020  | 2021  | US\$/BBL |
|----------------|-------|-------|-------|-------|-------|----------|
| January        | 55.35 | 66.28 | 60.81 | 66.09 | 54.38 |          |
| February       | 56.10 | 65.98 | 65.64 | 55.53 | 61.05 |          |
| March          | 52.60 | 66.31 | 68.60 | 33.92 | 64.56 |          |
| April          | 53.40 | 70.97 | 73.05 | 17.66 | 63.24 |          |
| May            | 51.45 | 76.71 | 69.70 | 25.17 | 66.91 |          |
| June           | 47.30 | 73.22 | 62.75 | 37.05 | 71.89 |          |
| July           | 48.60 | 76.00 | 64.86 | 43.42 | 73.53 |          |
| August         | 48.85 | 74.91 | 60.16 | 45.19 | 70.33 |          |
| September      | 55.70 | 78.75 | 62.39 | 41.54 | 73.88 |          |
| October        | 63.83 | 81.28 | 60.88 | 40.08 | 82.11 |          |
| November.      | 63.65 | 68.05 | 63.48 | 42.61 | 80.37 |          |
| December       | 62.06 | 59.33 | 66.66 | 49.17 | 74.38 |          |
| Annual average | 54.91 | 71.48 | 64.92 | 41.45 | 69.72 |          |

Source : OPEC Monthly Oil Market Report

<sup>1</sup>Abu Dhabi free on board (fob) Prices

ADNOC: Abu Dhabi National Oil Company

US\$/ BBL: US Dollars per Barrel

**9.13.** Domestic average retail prices of selected petroleum products from 2017 to 2021 are given in Table 9.6. During the period under review, annual average prices of Motor Spirit Premium and Light Diesel Oil increased by 21.8 per cent and 15.5 per cent to KSh 125.79 per litre and KSh 108.56 per litre, respectively. Similarly, domestic annual average price of Illuminating Kerosene increased by 18.4 per cent to KSh 100.19 per litre while the average price of a 13 Kg LPG cylinder rose by 10.9 per cent to KSh 2,280.91 in 2021.

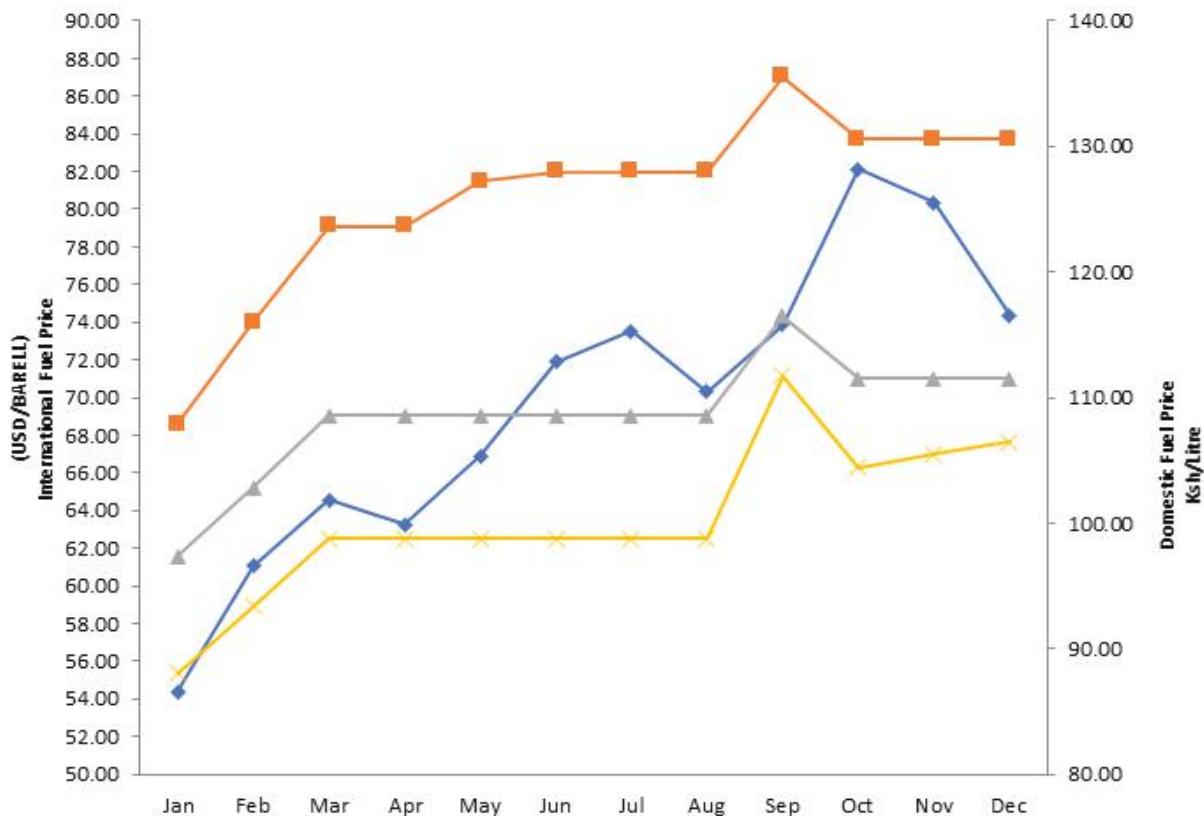
**Table 9.6: Average Retail Prices of Selected Petroleum Fuels, 2017-2021**

| Year | Month                       | KSh per Litre        |                  |                       | “KSh per 13 Kg cylinder” |
|------|-----------------------------|----------------------|------------------|-----------------------|--------------------------|
|      |                             | Motor Spirit Premium | Light Diesel Oil | Illuminating Kerosene |                          |
| 2017 | January                     | 96.88                | 85.2             | 64.41                 | 1,989.50                 |
|      | March                       | 99.98                | 88.94            | 67.16                 | 1,988.19                 |
|      | June                        | 99.72                | 88.89            | 65.91                 | 2,093.48                 |
|      | September                   | 97.87                | 86.56            | 64.43                 | 2,082.65                 |
|      | December                    | 103.24               | 91.74            | 70.57                 | 2,136.84                 |
|      | Annual Average <sup>1</sup> | 100.20               | 89.03            | 67.02                 | 2,075.29                 |
| 2018 | January                     | 107.17               | 95.79            | 75.74                 | 2,140.37                 |
|      | March                       | 108.33               | 98.82            | 78.41                 | 2,169.19                 |
|      | June                        | 113.07               | 104.21           | 86.69                 | 2,176.31                 |
|      | September                   | 117.54               | 108.97           | 109.25                | 2,187.21                 |
|      | December                    | 114.30               | 111.89           | 106.15                | 2,193.42                 |
|      | Annual Average <sup>1</sup> | 111.93               | 103.65           | 90.06                 | 2,169.07                 |
| 2019 | January                     | 104.99               | 103.10           | 102.56                | 2,193.13                 |
|      | March                       | 102.13               | 97.47            | 97.63                 | 2,191.84                 |
|      | June                        | 115.82               | 105.57           | 105.48                | 2,192.25                 |
|      | September                   | 113.57               | 103.90           | 101.44                | 2,141.31                 |
|      | December                    | 109.91               | 102.28           | 102.81                | 2,101.16                 |
|      | Annual Average <sup>1</sup> | 109.63               | 102.92           | 102.29                | 2,161.26                 |
| 2020 | January                     | 110.61               | 102.81           | 104.46                | 2,144.81                 |
|      | March                       | 112.07               | 102.93           | 96.72                 | 2,065.98                 |
|      | June                        | 90.34                | 75.88            | 63.79                 | 2,078.50                 |
|      | September                   | 106.30               | 95.45            | 84.09                 | 2,033.57                 |
|      | December                    | 107.69               | 92.75            | 84.50                 | 1,977.36                 |
|      | Annual Average <sup>1</sup> | 103.28               | 93.96            | 84.60                 | 2,056.84                 |
| 2021 | January                     | 107.86               | 97.33            | 88.07                 | 2,018.93                 |
|      | February                    | 116.03               | 102.84           | 93.37                 | 2,031.21                 |
|      | March                       | 123.66               | 108.58           | 98.78                 | 2,074.23                 |
|      | April                       | 123.66               | 108.58           | 98.78                 | 2,074.23                 |
|      | May                         | 127.21               | 108.58           | 98.78                 | 2,074.23                 |
|      | June                        | 127.98               | 108.58           | 98.78                 | 2,074.23                 |
|      | July                        | 127.98               | 108.58           | 98.78                 | 2,394.18                 |
|      | August                      | 127.98               | 108.58           | 98.78                 | 2,420.68                 |
|      | September                   | 135.54               | 116.51           | 111.74                | 2,445.23                 |
|      | October                     | 130.54               | 111.51           | 104.46                | 2,513.74                 |
|      | November                    | 130.54               | 111.51           | 105.46                | 2,611.18                 |
|      | December                    | 130.54               | 111.51           | 106.46                | 2,638.83                 |
|      | Annual Average <sup>1</sup> | 125.79               | 108.56           | 100.19                | 2,280.91                 |

<sup>1</sup>Annual average

**9.14.** Figure 9.2 shows the trend of monthly prices of Murban ADNOC oil and domestic fuel prices for 2021. Price of Murban crude oil rose steadily in the review period with the highest prices being recorded in October and the lowest in January. Domestic prices of Motor Spirit premium, Light Diesel oil and Illuminating Kerosene, followed the same trend with prices peaking in September 2021.

**Figure 9.2: International Crude Oil Prices against Domestic Fuel Prices, 2021.**



## Electricity

**9.15.** Table 9.7(a) presents information on installed and effective capacity of electricity by source for the period 2017 to 2021. Total installed capacity of electricity increased to 2,989.6 MW in 2021 from 2,836.7 MW in 2020. Geothermal installed capacity of electricity and co-generation remained unchanged at 863.1 MW and 2.0 MW, respectively in 2021. Solar capacity more than tripled to 172.5 MW while hydro capacity rose by 4.1 MW to 838.1 MW in 2021. However, thermal capacity decreased from 749.1 MW in 2020 to 677.8 MW in 2021.

**9.16.** Total effective capacity of electricity rose by 5.6 per cent to 2,857.6 MW due to significant rise in Solar and Wind capacities in 2021. In addition, thermal effective capacity declined by 71.8 MW to 643.7 MW in 2021. On the other hand, effective solar capacity expanded by 120 MW to 172.2 MW in 2021. Effective capacity of co-generation and geothermal remained unchanged.

**Table 9.7(a): Installed and Effective Capacity of Electricity by Source, 2017-2021**

| Year  | INSTALLED CAPACITY <sup>2</sup> |         |             |       |               |       |         | EFFECTIVE CAPACITY <sup>3</sup> |         |             |       |                 |       |         |
|-------|---------------------------------|---------|-------------|-------|---------------|-------|---------|---------------------------------|---------|-------------|-------|-----------------|-------|---------|
|       | Hydro                           | Thermal | Geo-thermal | Wind  | Co-generation | Solar | Total   | Hydro                           | Thermal | Geo-thermal | Wind  | "Co-generation" | Solar | Total   |
| 2017  | 826.2                           | 806.9   | 652.0       | 26.1  | 28.0          | 0.7   | 2,339.9 | 805.0                           | 765.8   | 644.0       | 25.5  | 23.5            | 0.6   | 2,264.4 |
| 2018  | 826.2                           | 807.7   | 663.0       | 336.1 | 28.0          | 50.7  | 2,711.7 | 805.0                           | 768.2   | 655.0       | 335.5 | 23.5            | 50.6  | 2,637.8 |
| 2019  | 826.2                           | 749.3   | 828.4       | 336.1 | 28.0          | 51.0  | 2,818.9 | 805.0                           | 716.0   | 816.0       | 325.5 | 23.5            | 50.4  | 2,736.4 |
| 2020  | 834.0                           | 749.1   | 863.1       | 336.1 | 2.0           | 52.5  | 2,836.7 | 805.0                           | 715.5   | 805.1       | 325.5 | 2.0             | 52.2  | 2,705.3 |
| 2021* | 838.1                           | 677.8   | 863.1       | 436.1 | 2.0           | 172.5 | 2,989.6 | 809.1                           | 643.7   | 805.1       | 425.5 | 2.0             | 172.2 | 2,857.6 |

Source: Kenya Power &amp; Lighting Company Ltd and Kenya Electricity Generation Company Ltd

\* Provisional

Notes:

1. <sup>1</sup>Megawatt = 1,000 kilowatts = 1,000,000 watts

2. Installed capacity refers to the maximum theoretical electric output a power station could produce when operating at 100 per cent

3. Effective capacity refers to the maximum electric output a power station is expected to achieve given current operating constraints

**9.17.** Details on local generation and imports of electricity for the period 2017 to 2021 are presented in Table 9.7(b). Total electricity generation rose by 7.0 per cent to 12,414.7 GWh in 2021, partly attributable to the increase in Thermal electricity generation which rose by 67.3 per cent. Wind electricity generation rose by 653.44 GWh to 1,984.8 GWh as a result of the addition of Kipeto Wind Power plant to the grid in

2021. Similarly, solar electricity generation increased significantly due to the injection of Selenkei, Ceterminate and Malindi power plants to the grid in the review period. Geothermal electricity generation decreased by 22.73 GWh to 5,037.0 GWh. However, hydro electricity generation decreased by 13.2 per cent to 3,675.0 GWh in 2021. Electricity imports rose to 288.0 GWh in 2021.

**Table 9.7(b): Generation and Imports of Electricity, 2017-2021**

| Year  | Hydro   | GENERATION |                   |         |            |              |         | Imports | Total | GWh      |  |  |
|-------|---------|------------|-------------------|---------|------------|--------------|---------|---------|-------|----------|--|--|
|       |         | Thermal    |                   |         | Geothermal | Cogeneration | Wind    |         |       | GWh      |  |  |
|       |         | KenGen     | IPPs and Off-Grid | Total   |            |              |         |         |       |          |  |  |
| 2017  | 2,776.8 | 998.2      | 1,535.8           | 2,534.1 | 4,756.3    | 1.9          | 61.3    | -       | 229.6 | 10,359.9 |  |  |
| 2018  | 3,986.4 | 755.8      | 790.1             | 1,545.8 | 5,127.8    | 2.5          | 375.6   | 13.68   | 130.3 | 11,182.0 |  |  |
| 2019  | 3,205.3 | 668.9      | 644.3             | 1,313.3 | 5,234.7    | 0.3          | 1,562.7 | 92.3    | 212.0 | 11,620.7 |  |  |
| 2020  | 4,232.7 | 120.6      | 633.9             | 754.5   | 5,059.8    | 0.2          | 1,331.4 | 88.4    | 136.7 | 11,603.6 |  |  |
| 2021* | 3,675.0 | 434.3      | 760.0             | 1,262.0 | 5,037.0    | 0.5          | 1,984.8 | 167.4   | 288.0 | 12,414.7 |  |  |

Source: Kenya Power &amp; Lighting Company Ltd and Kenya Electricity Generation Company Ltd

\* Provisional

Notes:

IPP: Independent Power Producers

1 Gigawatt hour = 1,000,000 kilowatt hours

- Negligible

**9.18.** Table 9.7(c) presents captive power capacities by technology for the period 2017 to 2021. Total licenced captive power capacity rose by 61.2 per cent to 215.9 MW in 2021. Out of the 215.9 MW, 172.0 MW were active while the rest were inactive

in 2021. The captive power capacity from Bagasse more than tripled from 15.7 MW in 2020 to 60.2 MW in 2021. Captive power capacity from geothermal, coal, co-generation and biomass remained unchanged during the same period.

**Table 9.7 ( c ): Licensed Captive Power Capacities, 2017-2021<sup>1</sup>**

| Type of Technology  | 2017         | 2018         | 2019         | 2020         | MW<br>2021   |
|---------------------|--------------|--------------|--------------|--------------|--------------|
| Hydro               | 25.98        | 25.98        | 25.98        | 25.98        | 28.31        |
| Geothermal          | 3.70         | 3.70         | 3.70         | 3.70         | 3.70         |
| Coal                | 30.00        | 30.00        | 30.00        | 30.00        | 30.00        |
| Cogen               | 32.00        | 32.00        | 32.00        | 32.00        | 32.00        |
| Waste Heat Recovery | 0.00         | 0.00         | 0.00         | 0.00         | 13.5         |
| Bagasse             | 8.7          | 15.70        | 15.70        | 15.70        | 60.20        |
| Solar               | 2.46         | 2.46         | 2.46         | 3.96         | 13.44        |
| Biomass             | 0.00         | 1.50         | 1.50         | 1.50         | 1.50         |
| Thermal             | 18.50        | 18.50        | 18.50        | 18.50        | 30.48        |
| Biogas              | 2.60         | 2.60         | 2.60         | 2.60         | 2.78         |
| <b>Total</b>        | <b>123.9</b> | <b>132.4</b> | <b>132.4</b> | <b>133.9</b> | <b>215.9</b> |

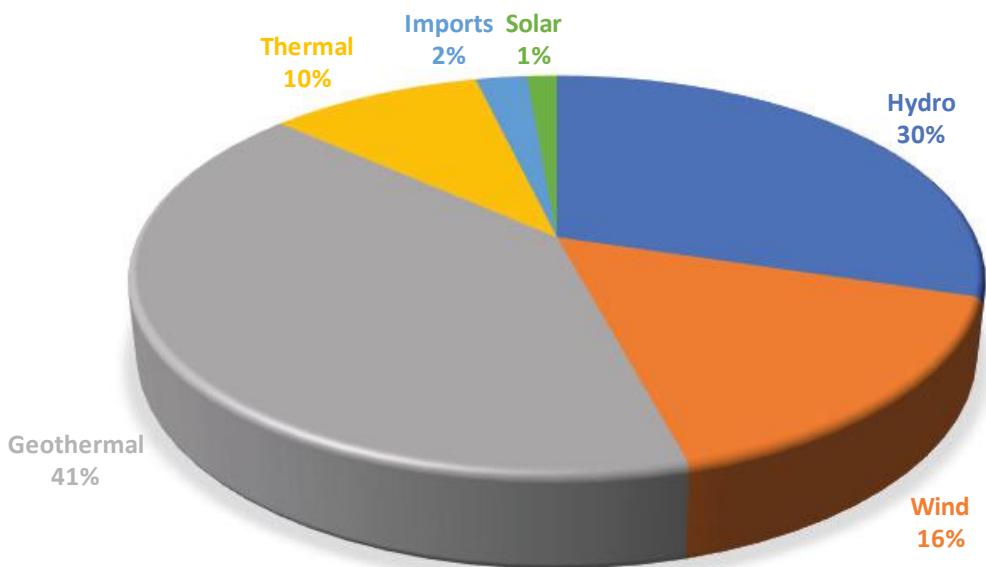
Source: Energy and Petroleum Regulatory Authority

<sup>1</sup> Cumulative: The table presents a stock of available active capacities in the country, these are cumulative in nature

Note: Captive power capacity is the capacity of an autoproducer to generate electricity exceeding 1MW, within their facility which is then used and managed by the autoproducer for their own energy consumption.

**9.19.** Figure 9.3 presents the proportion of electricity generation by source in 2021. In the review period, 89.6 per cent of electricity was generated from renewable sources. Geothermal generation remained the leading source of electricity generation and accounted for 40.6 per cent in 2021. This was

followed by hydro generation at 29.6 per cent and wind at 16.0 per cent. Generation of electricity from thermal sources, which is the only non-renewable source accounted for 10.2 per cent of total electricity generation in 2021.

**Figure 9.3: Proportion of Electricity Generation by Source, 2021**

**9.20.** Total domestic demand for electricity rose by 8.7 per cent to 9,565.4 GWh in 2021, as shown in Table 9.8. The demand for electricity went up in all categories in 2021. Demand for electricity for street lighting and rural electrification increased by 33.7 per cent and 6.0 per cent to 99.6 GWh and 648.80 GWh, respectively, in 2021. Similarly, demand for electricity by domestic and small commercial category increased by 6.8 per cent to 4,088.6 GWh in 2021 and accounted for 42.7 per cent of total domestic demand in 2021. Large and medium (commercial

and industrial) category accounted for 49.4 per cent of total domestic demand in the same period

**9.21.** Local electricity generation increased by 5.8 per cent to 12,126.7 GWh in 2021. Electricity imports more than doubled to 288.0 GWh while exports increased by 10.3 per cent to 18.2 GWh in 2021. Electricity transmission and distributive losses were 2,831.0 GWh in 2021, accounting for 22.8 per cent of total electricity supply.

**Table 9.8: Electricity Demand and Supply, 2017-2021**

| Category  | 2017            | 2018            | 2019            | 2020            | GWh<br>2021*    |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|
| Domestic and Small Commercial                     | 3,528.3         | 3,665.9         | 3,780.1         | 3,829.1         | 4,088.6         |
| Large & Medium (Commercial and Industrial)        | 4,199.0         | 4,336.5         | 4,441.0         | 4,281.0         | 4,728.4         |
| Off-peak <sup>1</sup>                             | 42.2            | 30.4            | ..              | ..              | ..              |
| Street Lighting                                   | 60.1            | 68.2            | 63.9            | 74.5            | 99.6            |
| Rural Electrification                             | 580.6           | 601.3           | 569.0           | 611.9           | 648.80          |
| <b>TOTAL DOMESTIC DEMAND</b>                      | <b>8,410.1</b>  | <b>8,702.3</b>  | <b>8,854.0</b>  | <b>8,796.4</b>  | <b>9,565.4</b>  |
| Exports to Uganda & Tanzania                      | 12.3            | 35.2            | 16.2            | 16.52           | 18.22           |
| Transmission <sup>2</sup> and Distribution losses | 1,937.5         | 2,444.5         | 2,750.5         | 2,790.7         | 2,831.0         |
| <b>TOTAL DEMAND = TOTAL SUPPLY<sup>3</sup></b>    | <b>10,359.9</b> | <b>11,182.0</b> | <b>11,620.7</b> | <b>11,603.6</b> | <b>12,414.7</b> |
| Less imports from Uganda and Ethiopia             | 229.6           | 130.3           | 212.0           | 136.7           | 288.0           |
| Local generation                                  | 10,130.3        | 11,051.7        | 11,408.6        | 11,466.9        | 12,126.7        |

Source: Kenya Power and Lighting Company Ltd

\*Provisional

<sup>1</sup>Category dropped from classification

<sup>2</sup>Voltage losses in power transmission lines

<sup>3</sup>Total supply equals Total generation

-- Missing data

**9.22.** Table 9.9 presents average electricity yield by customer category for the period 2016/17 to 2020/21. The average yield, measured by KSh per unit of electricity sold, for domestic and street lighting categories decreased by 6.2 per cent and 2.7 per cent to KSh 16.43 and KSh 9.83, respectively. Average electricity yield for commercial industrial category increased

by 12.3 per cent to KSh 16.37 per unit during the same period. Similarly, the average electricity yield for exports category increased significantly by 23.3 per cent to KSh 14.34 while that of small commercial category decreased by 3.3 per cent to KSh 19.58 in 2020/21.

**Table 9.9: Average Electricity Yield<sup>1</sup> by Customer Category, 2016/17-2020/21**

| Category                 | 2016/17 | 2017/18 | 2018/19 | 2019/20 | KSh/Unit<br>2020/21* |
|--------------------------|---------|---------|---------|---------|----------------------|
| Domestic                 | 17.80   | 16.30   | 16.36   | 17.51   | 16.43                |
| Small Commercial         | 21.31   | 22.08   | 23.45   | 20.25   | 19.58                |
| Commercial Industrial    | 13.06   | 14.09   | 14.31   | 14.58   | 16.37                |
| Off Peak (Interruptible) | 15.24   | 11.95   | N/A     | N/A     | N/A                  |
| Street Lighting          | 7.53    | 7.08    | 9.66    | 10.10   | 9.83                 |
| Exports                  | 15.59   | 17.48   | 20.38   | 11.63   | 14.34                |

Source: Kenya Power and Lighting Company Ltd

\* Provisional

<sup>1</sup>Electricity yield is defined as the average revenue received per unit of electricity sold

## Environmental Economic Accounts (EEA) Energy Accounts

**9.23.** Environmental Economic Accounts (EEA) are used to account for natural resource utilization. The accounts take stock of natural resources from the point of extraction to intermediate use by industries, final use and residuals/waste which are eventually disposed back to the environment. In addition, the accounts seek to promote efficient natural resource accounting and to ensure a country is able to track how much it has utilized, estimate reserves in the environment, and promote proper disposal of residuals for environmental sustainability. The System of Environmental Economic Accounts (SEEA) framework follows a similar accounting structure as

the System of National Accounts (SNA). The concepts, definitions and classifications used in SEEA are consistent with the SNA in order to facilitate the integration of environmental and economic statistics.

### Energy Balance 2021

**9.24.** Table 9.10(a) shows energy balance for coke and coal and renewable feed stocks in 2021. Renewable feed stocks include wood charcoal, fuel wood and wastes or scraps. Total supply of coke and coal and renewable feed stocks was 385,347.7 Tera Joules (TJ) in 2021. About 99.4 per cent of renewable feed stocks was demanded by households in 2021.

**Table 9.10(a): Energy Balance, 2021- Supply and Demand for Coke and Coal and Non Renewable Feed Stocks**

| Energy Products         | Non Renewable feedstocks |               |  |                  |            | <i>TJ</i> |
|-------------------------|--------------------------|---------------|--|------------------|------------|-----------|
|                         | Coal and Coke            | Wood charcoal | Fuel wood, in logs, in billets, in twigs, in faggots or in similar forms | Wastes or scraps | Sub-Total  |           |
| Domestic Production     | 29,371.57                |               | 339,805.03   | 12,178.92        | 381,355.51 |           |
| Imports                 | 4,017.70                 |               |  |                  | 4,017.70   |           |
| Domestic Exports        | 25.41                    |               |  |                  | 25.41      |           |
| Re-Exports              | 0.12                     |               |  |                  | 0.12       |           |
| Stock changes           | ..                       | ..            | ..   | ..               | ..         |           |
| Sub-total: Supply       | 3,992.17                 | 29,371.57     | 339,805.03   | 12,178.92        | 385,347.68 |           |
| Statistical differences | 1,511.43                 | -             | -  | -                | 1,511.43   |           |
| Sub-total: Demand       | 2,480.74                 | 29,371.57     | 339,805.03   | 12,178.92        | 383,836.25 |           |
| Industry                | 2,480.74                 | 236.67        | 2,118.07   |                  | 4,835.48   |           |
| Households              | ..                       | 29,134.90     | 337,686.95   | 12,178.92        | 379,000.77 |           |

<sup>1</sup> Terajoule (TJ)=10<sup>12</sup> Joules

1000 Tonnes=4.184 TJ

1 GWh=3.6 TJ

..Data not available

<sup>1</sup>Statistical differences are the difference between supply and demand mainly explained by stock changes and any losses incurred

**9.24.** Table 9.10 (b) presents electricity energy balance in 2021. In the review period, 97.8 per cent of all electricity supplied was produced domestically. Renewable energy generated accounted for 89.6 per cent of domestically produced electricity. Total electricity demanded locally was 34,435.6 TJ while electricity transmission and distribution losses amounted to 10,191.7 TJ.

**Table 9.10(b): Energy Balance, 2021-Supply and Demand for Electricity**

| Energy Products   | Power Generation |            |        |          |          |               | Electacial energy distribution |
|---|------------------|------------|--------|----------|----------|---------------|--------------------------------|
|   | Hydro            | Geothermal | Solar  | Wind     | Thermal  | Co-Generation |                                |
| Domestic Production                                     | 13,229.96        | 18,133.37  | 602.70 | 7,145.27 | 4,543.26 | 1.67          | 43,656.24                      |
| Imports   |                  |            |        |          |          |               | 1,036.66                       |
| Domestic Exports  |                  |            |        |          |          |               | 65.60                          |
| Sub-total: Supply                                       |                  |            |        |          |          |               | 44,627.30                      |
| Statistical differences                                 |                  |            |        |          |          |               | 10,191.73                      |
| Sub-total: Demand                                       |                  |            |        |          |          |               | 34,435.58                      |
| Sub-total: Energy transformation                        | 13,229.96        | 18,133.37  | 602.70 | 7,145.27 | 4,543.26 | 1.67          | 43,656.24                      |
| Electricity plants (Kengen)                             | 13,063.13        | 14,616.42  |        | 206.66   | 1,563.57 |               | 29,449.79                      |
| Electricity plants (Independent Power Producers (IPPs)) | 166.83           | 3,516.95   | 602.03 | 6,938.61 | 2,736.08 | 1.67          | 13,962.16                      |
| Electricity plants (Off-grid))                          |                  |            |        | 0.68     | -        | 243.61        | 244.29                         |
| Sub-total: Energy demand                                |                  |            |        |          |          |               | 34,435.58                      |
| <b>Electricity:</b>                                     |                  |            |        |          |          |               |                                |
| Domestic and Small Commercial-IC                        |                  |            |        |          |          |               | 14,719.07                      |
| Large and Medium Commercial -IC                         |                  |            |        |          |          |               | 17,022.36                      |
| Street Lighting-F                                       |                  |            |        |          |          |               | 358.46                         |
| Rural electrification-F                                 |                  |            |        |          |          |               | 2,335.69                       |

<sup>1</sup> Terajoule (TJ)=10<sup>12</sup> Joules

1000 Tonnes=4.184 TJ

1 GWh=3.6 TJ

..Data not available

<sup>1</sup>Statistical differences are the difference between supply and demand mainly explained by stock changes and any losses incurred

**9.25.** Table 9.10(c) presents energy balance of petroleum fuels in 2021. During the review period, 20,044.4 TJ of petroleum fuels were supplied to the country mainly from imports. Over the same period, 21,938.4 TJ of petroleum fuels were demanded, with 63.4 per cent being used on road transport. Air transport accounted for 9.6 per cent while rail transport accounted for 0.5 per cent, of total petroleum demand. Household consumption of petroleum products accounted for 6.9 per cent of petroleum demanded in 2021.

**Table 9.10 (c): Energy Balance, 2021-Supply and Demand of Petroleum Fuels**

| Energy Products                                     | Liquid fuels              |                           |            |                          |  |                       |                        |                                   |           |                          | Gas                         |                                |  | Sub-Total       |
|---|---------------------------|---------------------------|------------|--------------------------|--|-----------------------|------------------------|-----------------------------------|-----------|--------------------------|-----------------------------|--------------------------------|--|-----------------|
|   | Motor Spirit<br>(Premium) | Avi-<br>ation<br>gasoline | Jet fuel   | Illuminating<br>Kerosene | White spir-<br>it and spe-<br>cial<br>boil-<br>ing<br>point<br>industrial<br>spirits | Light Die-<br>sel Oil | Heavy<br>Diesel<br>Oil | Other<br>G a s<br>O i l<br>n.e.c. | Fuel oils | Lubri-<br>cating<br>Oils | Lubri-<br>cating<br>Greases | Liquified<br>O i l s<br>n.e.c. | Petroleum<br>gases<br>and<br>other gaseous<br>hydrocarbons,<br>except natural<br>gas |                 |
| Imports   | 6,557.64                  | 5.41                      | 2,535.47   | 28.83                    | 17.11  | 9,659.05              | 0.09                   | 0.04                              | 1,364.55  | 34.65                    | 14.15                       | 321.85                         | 1,564.25   | 0.13            |
| Domestic Exports                                    | -                         | -                         | 0.28       | 0.00                     | 0.07   | 0.00                  | 0.00                   | 0.00                              | 1.31      | 84.33                    | 0.27                        | 10.05                          | 0.00   | 0.00            |
| Re-Exports  | 0.23                      | 0.17                      | 1,782.49   | -                        | 0.00   | 58.19                 | 0.00                   | 0.00                              | 91.82     | 23.60                    | 0.00                        | 5.65                           | 0.39   | 0.00            |
| Stock changes                                       |                           |                           |            |                          |  |                       |                        |                                   |           |                          |                             |                                |  | 1,962.55        |
| Sub-total: Supply                                   | 6,557.41                  | 5.24                      | 752.70     | 28.83                    | 17.04  | 9,600.85              | 0.08                   | 0.04                              | 1,271.42  | (73.28)                  | 13.88                       | 306.14                         | 1,563.86   | 0.13            |
|   |                           |                           |            |                          |  |                       |                        |                                   |           |                          |                             |                                |  | 20,044.35       |
| Statistical differences                             | 53.85                     | (0.54)                    | (1,367.94) | (436.79)                 | 17.04  | (46.05)               | (3.27)                 | 0.04                              | (152.57)  | (287.99)                 | 13.88                       | 306.14                         | 9.96   | 0.13 (1,894.09) |
| Sub-total: Energy demand                            | 6,503.56                  | 5.78                      | 2,120.63   | 465.62                   | -  | 9,646.90              | 3.35                   | -                                 | 1,423.98  | -                        | -                           | -                              | 1,553.90   | - 21,938.44     |
| Agriculture   | 13.01                     | 0.06                      | 0.00       | 1.03                     |  | 117.33                | -                      |                                   | 14.26     | 10.87                    |                             |                                | 3.16   | 159.72          |
| Mining & Quarrying                                  | 0.80                      | -                         | -          | -                        |  | 61.78                 | -                      |                                   | 56.58     | 0.58                     |                             |                                | 1.32   | 121.06          |
| Manufacturing                                       | 17.64                     | -                         | -          | 10.76                    |  | 354.61                | -                      |                                   | 211.82    | 25.06                    |                             |                                | 92.85  | 712.73          |
| Electricity, Gas, Steam and Air Conditioning Supply | 0.16                      | -                         | -          | 0.66                     |  | 2.66                  | 2.82                   |                                   | 651.60    | 6.32                     |                             |                                | -  | 664.23          |
| Construction  | 1.81                      | -                         | -          | 7.09                     |  | 343.33                | -                      |                                   | 5.86      | 7.11                     |                             |                                | 0.30   | 365.51          |
| Transport and Storage                               | 6,362.07                  | 5.41                      | 2,098.00   | 0.55                     | -  | 7,832.67              | -                      | -                                 | 11.94     | 150.05                   | -                           |                                | 2.84   | - 16,463.52     |
| Road Transport                                      | 6,282.27                  | -                         | -          | 0.51                     |  | 7,474.50              | -                      |                                   | 8.36      | 148.98                   |                             |                                | 0.41   | 13,915.02       |
| Rail Transport                                      | 0.02                      | -                         | 5.41       | 2,098.00                 | -  | 0.04                  | 111.14                 | -                                 | -         | 0.96                     |                             |                                | 0.05   | 112.21          |
| Air Transport                                       | -                         | 79.78                     | -          | -                        | -  | -                     | -                      | -                                 | -         | 0.05                     |                             |                                | -  | 2,103.45        |
| Other Transport                                     | 0.87                      | -                         | -          | -                        | -  | 247.03                | -                      |                                   | 3.59      | 0.06                     |                             |                                | 2.38   | 332.84          |
| Accommodation and Food Service Activities           |                           |                           |            |                          |  | 4.34                  | -                      |                                   | -         | 0.25                     |                             |                                | 32.29  | 37.76           |
| Other Commercial Sectors                            | 96.90                     | 0.31                      | -          | 193.50                   |  | 837.89                | 0.53                   |                                   | 466.81    | 13.76                    |                             |                                | 159.89   | 1,769.61        |
| Public Administration and Defense                   | 10.29                     | -                         | 22.63      | -                        |  | 92.29                 | -                      |                                   | 5.11      | 0.71                     |                             |                                | 2.97   | 134.00          |
| Households  |                           |                           |            |                          |  | 252.03                |                        |                                   |           |                          |                             |                                | 1,258.27   | 1,510.30        |

### Energy Physical Supply and Use Tables (PSUT)

**9.26.** Table 9.11 (a) presents physical energy supplied and used in 2021. During this period, a total of 872,637.7 TJ was supplied with 48.2 per cent being extracted from the environment while 3.1 per cent were imported mainly in the form of petroleum fuels. Households transformed 379,000.8 TJ to firewood while industries transformed 46,011.0 TJ of energy to electricity.

**Table 9.11(a): Physical Energy Supply Table, 2021**

| INDUSTRIES  | Industries      | Households       | Rest of the World | Flows from the environment | TJ<br>Total      |
|---|-----------------|------------------|-------------------|----------------------------|------------------|
| <b>NATURAL INPUTS:</b>                                    |                 |                  |                   |                            |                  |
| Solar   |                 |                  |                   | 602.70                     | 602.7            |
| Wind  |                 |                  |                   | 7,145.27                   | 7,145.3          |
| Hydro   |                 |                  |                   | 13,229.96                  | 13,230.0         |
| Geo-Thermal   |                 |                  |                   | 18,133.37                  | 18,133.4         |
| Bagasse   |                 |                  |                   | 1.67                       | 1.7              |
| Biomass Wood  |                 |                  |                   | 381,355.5                  | 381,355.5        |
| Sub-total   | -               | -                | -                 | 420,468.5                  | 420,468.5        |
| <b>IMPORTS:</b>   |                 |                  |                   |                            |                  |
| Electricity   |                 |                  | 1,036.66          |                            | 1,036.7          |
| Coal and Coke   |                 |                  | 4,017.70          |                            | 4,017.7          |
| Motor Spirit Premium                                      |                 |                  | 6,557.64          |                            | 6,557.6          |
| Aviation gasoline   |                 |                  | 5.41              |                            | 5.4              |
| Jet fuel  |                 |                  | 2,535.47          |                            | 2,535.5          |
| Illuminating Kerosene                                     |                 |                  | 28.83             |                            | 28.8             |
| White spirit and special boiling point industrial spirits |                 |                  | 17.11             |                            | 17.1             |
| Light Diesel Oil  |                 |                  | 9,659.05          |                            | 9,659.0          |
| Heavy Diesel Oil  |                 |                  | 0.09              |                            | 0.1              |
| Other Gas Oils n.e.c.                                     |                 |                  | 0.04              |                            | 0.0              |
| Fuel oils n.e.c.  |                 |                  | 1,364.55          |                            | 1,364.6          |
| Lubricating Oils  |                 |                  | 34.65             |                            | 34.7             |
| Lubricating Greases                                       |                 |                  | 14.15             |                            | 14.1             |
| Other petroleum oils n.e.c.                               |                 |                  | 321.85            |                            | 321.8            |
| Liquified Petroleum Gas (L.P.G)                           |                 |                  | 1,564.25          |                            | 1,564.3          |
| Sub-total   | -               | -                | 27,157.45         | -                          | 27,157.45        |
| <b>ENERGY PRODUCTS:</b>                                   |                 |                  |                   |                            |                  |
| Electricity plants (Kengen)                               | 29,449.8        |                  |                   |                            | 29,449.8         |
| Electricity plants (Independent                           | 13,962.2        |                  |                   |                            | 13,962.2         |
| Power Producers (IPPs))                                   |                 |                  |                   |                            |                  |
| Electricity plants (Off-grid))                            | 244.3           |                  |                   |                            | 244.3            |
| Oil refineries  |                 |                  |                   |                            | -                |
| Charcoal  | 236.67          | 29,134.90        |                   |                            | 29,371.6         |
| Firewood  | 2,118.07        | 337,686.95       |                   |                            | 339,805.0        |
| Sub-total   | 46,010.98       | 366,821.86       | -                 | -                          | 412,832.84       |
| <b>RESIDUALS:</b>   |                 |                  |                   |                            |                  |
| Other   |                 | 12,178.92        |                   |                            | 12,178.9         |
| <b>TOTAL SUPPLY</b>                                       | <b>46,011.0</b> | <b>379,000.8</b> | <b>27,157.4</b>   | <b>420,468.5</b>           | <b>872,637.7</b> |

1 Terajoule (TJ)= $10^{12}$  Joules

1000 Tonnes=4.184 TJ

1 GWh=3.6 TJ

## Developments in the Energy Sector

### Rural Electrification

**9.28.** The number of customers connected under the rural electrification programme grew from 1,502.9 thousand in 2019/20 to 1,912.4 thousand in 2020/21, mainly drawn from domestic and small commercial categories. Revenue realized increased by 3.0 per cent from KSh 10.1 billion in 2019/20 to KSh10.4 billion in 2020/21.

### Electricity Generation and Transmission

**9.29.** The Government through KenGen expects to complete the Olkaria 1 Unit 6 geothermal powerplant in 2022. This additional unit is estimated to utilize the excess steam in Olkaria 1 with an expected capacity of 83.3 MW. Further, there are six geothermal, solar and wind power plants expected to be completed between 2026 and 2030 with a combined expected capacity of 367.5 MW. Olkaria and Eburru Geothermal Resource had a combined energy equivalent of 97.2 Exajoules in 2021.

**9.30.** The country had a stock of 7,676 ckm (circuit length kilometers) transmission lines with voltages of 132kV, 220kV and 400kV as of 31st December

2021. Additionally, there were 247,905 ckm of transmission and distribution lines of between 400/230v and 66kv in the same period. In 2021, 400/220/132kV Olkaria-Lessos-Kisumu transmission line was completed with a circuit length of 617.8 kilometres. Additionally, System Reinforcement Isinya 400/220kV substation was completed in the review period. The country intends to increase transmission lines further by 2,577 kilometres of circuit length in 2022.

### Oil Exploration

**9.31.** In 2021, there were thirteen Hydro Carbon discoveries, with oil discoveries having been made in the Tertiary Rift Basin. Additionally, gas discoveries were made in off shore Lamu Basin, Anza Basin and Mbawa 1 well while Sunbird 1 well had both oil & gas discoveries Three blocks in Offshore Lamu Basin and Anza Basin have since been surrendered back to the Government.

**9.32.** Plans are underway to have an integrated field development plan. The proposed development is to cover 10 discovery fields. Field development will be in two phases with phase1 development targeting mature resources with a plateau of 120,000-bopd while phase 2 targets maturing of the remaining six field to extend plateau. The total land requirement for the upstream development area and the 84km water pipeline is approximately 22,000 acres and 614 acres respectively. The Lokichar Lamu crude oil pipeline project is currently at project development stage (PreFID), Front End Engineering Design (FEED) is complete and the Environmental and Social Impact Assessment (ESIA) report submitted to NEMA for approval.



**The Government through KenGen expects to complete the Olkaria 1 Unit 6 geothermal powerplant in 2022. This additional unit is estimated to utilize the excess steam in Olkaria 1 with an expected capacity of 83.3 MW**

**9.27.** Physical energy used by sector is presented in Table 9.11(b). In 2021, households utilized 86.6 per cent of all energy used, mainly in form of firewood. The use of 2.7 per cent of energy remained undefined and could not be allocated to any sector.

**Table 9.11(b): Physical Energy Use Table, 2021**

| TJ  | INDUSTRIES | SIEC   | Agriculture | Mining & Quarrying | Manufacturing | Electricity, Gas, Steam and Air Conditioning Supply | Construction | Transport and Storage | Accommodation and Food Service Activities | Other Commercial Sectors | Public Administration and Defense | Undefined | Households | Accumulation/Stock | Rest of the World | Flows to the environment | Total    |
|---|------------|--------|-------------|--------------------|---------------|---|--------------|-----------------------|---|--------------------------|-----------------------------------|-----------|------------|--------------------|-------------------|--------------------------|----------|
| <b>NATURAL INPUTS:</b>                                    |            |        |             |                    |               |   |              |                       |   |                          |                                   |           |            |                    |                   |                          |          |
| Solar   | 7000       |        |             |                    |               |   | 602.70       |                       |   |                          |                                   |           |            |                    |                   |                          | 602.7    |
| Wind  | 7000       |        |             |                    |               |   | 7,145.27     |                       |   |                          |                                   |           |            |                    |                   |                          | 7,145.3  |
| Hydro   | 7000       |        |             |                    |               |   | 13,229.96    |                       |   |                          |                                   |           |            |                    |                   |                          | 13,230.0 |
| Geo-Thermal   | 7000       |        |             |                    |               |   | 18,133.37    |                       |   |                          |                                   |           |            |                    |                   |                          | 18,133.4 |
| Co-Generation   | 7000       |        |             |                    |               |   | 1.67         |                       |   |                          |                                   |           |            |                    |                   |                          | 1.7      |
| Biomass Wood  |            |        |             |                    |               | 2,354.7   |              |                       |   |                          |                                   |           |            |                    |                   |                          |          |
| <b>ENERGY PRODUCTS CONSUMPTION:</b>                       |            |        |             |                    |               |   |              |                       |   |                          |                                   |           |            |                    |                   |                          |          |
| Petroleum:  |            |        |             |                    |               |   |              |                       |   |                          |                                   |           |            |                    |                   |                          |          |
| Motor Spirit Premium                                      | 4651       | 13.01  | 0.80        | 17.64              | 0.16          | 1.81  | 6,362.07     | 0.87                  | 96.90                                     | 10.29                    |                                   |           | 53.85      | 0.23               |                   |                          | 6,557.6  |
| Aviation gasoline   | 4652       | 0.06   | -           | -                  | -             | -   | -            | 5.41                  | -   | 0.31                     | -                                 |           |            | (0.54)             | 0.17              |                          | 5.4      |
| Jet fuel  | 4653       | 0.00   | -           | -                  | -             | -   | 2,098.00     | -                     | -   | 22.63                    |                                   |           |            | (1,367.94)         | 1,782.77          |                          | 2,535.5  |
| Illuminating Kerosene                                     | 4669       | 1.03   | -           | 10.76              | 0.66          | 7.09  | 0.55         | -                     | 193.50                                    | -                        |                                   |           | 252.03     | (436.79)           | 0.00              |                          | 28.8     |
| White spirit and special boiling point industrial spirits | 4691       |        |             |                    |               |   | -            |                       |   |                          |                                   |           |            |                    |                   |                          |          |
| Light Diesel Oil  | 4671       | 117.33 | 61.78       | 354.61             | 2.66          | 343.33  | 7,832.67     | 4.34                  | 837.89                                    | 92.29                    |                                   |           |            | (46.05)            | 58.19             |                          | 9,659.0  |
| Heavy Diesel Oil  | 4672       | -      | -           | -                  | 2.82          | -   | -            | -                     | 0.53                                      | -                        |                                   |           |            | (3.27)             | 0.00              |                          | 0.1      |
| Other Gas Oils n.e.c.                                     |            |        |             |                    |               |   |              |                       |   |                          |                                   |           |            |                    | 0.04              | 0.00                     | 0.0      |
| Fuel oils n.e.c.  | 4680       | 14.26  | 56.58       | 211.82             | 651.60        | 5.86  | 11.94        | -                     | 466.81                                    | 5.11                     |                                   |           |            | (152.57)           | 93.13             |                          | 1,364.6  |
| Lubricating Oils  | 4692       | 10.87  | 0.58        | 25.06              | 6.32          | 7.11  | 150.05       | 0.25                  | 13.76                                     | 0.71                     |                                   |           |            | (287.99)           | 107.93            |                          | 34.7     |
| Lubricating Greases                                       | 4692       |        |             |                    |               |   |              |                       |   |                          |                                   |           |            |                    | 13.88             | 0.27                     | 14.1     |

**Table 9.11(b): Physical Energy Use Table, 2021 (Continued)**

| INDUSTRIES                       | SIEC         | Agriculture  | Mining & Quarrying | Manufacturing   | Electricity, Gas, Steam and Air Conditioning Supply | Construction    | Transport and Storage | Accommodation and Food Service Activities | Other Commercial Sectors | Public Administration and Defense | Houses - holds   | Accumulation/Stock | Rest of the World | Flows to the environment | Total            |                  |
|----------------------------------|--------------|--------------|--------------------|-----------------|---|-----------------|-----------------------|---|--------------------------|-----------------------------------|------------------|--------------------|-------------------|--------------------------|------------------|------------------|
| Other petroleum oils n.e.c.      | 4699         | -            | -                  | -               | -   | -               | -                     | -   | -                        | -                                 | -                | -                  | -                 | -                        | 321.8            |                  |
| Liquid Petroleum Gas (LPG)       | 4630         | 3.16         | 1.32               | 92.85           | -   | 0.30            | 2.84                  | 32.29                                     | 159.89                   | 2.97                              | 1,258.27         | 9.96               | 0.39              | 1,564.3                  |                  |                  |
| Coal and Coke                    |              |              |                    |                 |   |                 |                       |   |                          |                                   | 1,511.43         | 25.53              | 4,017.7           | -                        |                  |                  |
| Electricity:                     | 7000         |              |                    |                 |   |                 |                       |   |                          |                                   | 5,097.47         | 9,621.60           |                   | 14,719.1                 |                  |                  |
| Domestic and Small Commercial-IC |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | 17,022.36        |                  |
| Large and Medium Commercial-IC   |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | 358.46           |                  |
| Street Lighting-F                |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | 358.5            |                  |
| Rural electrification-F          |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | 2,335.7          |                  |
| Other                            |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | 65.60            |                  |
| Biomass:                         |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | -                |                  |
| Firewood                         |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | 337,686.95       |                  |
| Charcoal                         |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | 29,371.6         |                  |
| Wood/Process Waste               | 5119         |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | -                |                  |
| Farm residue/Animal crop residue | 5130         |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | -                |                  |
| <b>RESIDUALS:</b>                |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          |                  |                  |
| Extraction                       |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | 12,178.92        |                  |
| Transformation                   |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | -                |                  |
| Losses                           |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | 10,191.73        |                  |
| Other                            |              |              |                    |                 |   |                 |                       |   |                          |                                   |                  |                    |                   |                          | -                |                  |
| <b>TOTAL USE</b>                 | <b>159.7</b> | <b>121.1</b> | <b>7,903.0</b>     | <b>39,777.2</b> | <b>365.5</b>  | <b>16,463.5</b> | <b>37.8</b>           | <b>1,769.6</b>                            | <b>134.0</b>             | <b>23,989.7</b>                   | <b>759,290.2</b> | <b>(1,894.2)</b>   | <b>2,150.0</b>    | <b>22,370.6</b>          | <b>872,637.7</b> | <b>872,637.7</b> |



# Manufacturing Sector Review

## Overview

Kenya's manufacturing sector recovered in 2021 from the slowdown that was experienced in 2020. This was aided by relaxing of containment measures implemented to curb the spread of the Coronavirus Disease (COVID-19) and the re-opening of the economy increased the uptake of manufactured goods. The sector's real value added grew by 6.9 per cent compared to a growth of negative 0.4 per cent in 2020. The share of manufacturing sector to GDP, was 7.2 per cent in 2021, while sector's volume of output expanded by 6.0 per cent in 2021 from a revised growth of 0.2 per cent in 2020. Sub sectors that registered major growths in volume of output in 2021 are: Other Non-metallic Mineral Products which includes cement; Leather and Related Products; Dairy Products; Motor Vehicle, Trailers and Semi-Trailers; Sugar and, Meat and Meat Products. However, Prepared and Preserved Fruits and Vegetables; Animal and Vegetable Fats and Oils; Furniture and Pharmaceutical Products sub sectors recorded declines in the review period.

**10.2.** In the year under review, total credit approved by both commercial banks and industrial financial institutions increased to KSh 464.0 billion in 2021 from KSh 410.3 billion in 2020. The total amount of credit advanced by industrial financial institutions increased from KSh 1.1 billion in 2020 to KSh 1.4 billion in 2021. The Export Processing Zones (EPZ) recorded growths for all its performance indicators in 2021. The total sales by EPZ enterprises increased by 21.5 per cent to KSh 98.7 billion in 2021. EPZ exports increased by 22.8 per cent to KSh 91.3 billion in 2021 while imports increased by 26.5 per cent to KSh 47.4 billion in the same period.

### Formal employment

**10.3.** The number of persons in formal manufacturing employment increased by 6.7 per cent from 316.9 thousand in 2020 to 338.0 thousand in 2021. The number of local employees engaged in EPZ enterprises went up by 17.0 per cent to 65.9 thousand in 2021.

### Manufacturing Output

**10.4.** Table 10.1 presents manufacturing sector's value of output, intermediate consumption, value added and compensation of employees at current prices from 2017 to 2021. The sector's value of output increased by 13.2 per cent to KSh 2,685.5 billion in 2021 after recording a marginal growth of 2.7 per cent in 2020. The intermediate consumption rose by 16.1 per cent in 2021 resulting to an increase in value added by 7.4 per cent during the same period. The compensation of employees grew by 7.7 per cent to KSh 232.0 billion in 2021.

**Table 10.1: Manufacturing Output, Compensation of Employees and Value Added at Current Prices, 2017-2021**

| YEAR  | Value of Output | Intermediate Consumption | Value Added | Compensation of Employees | KSh Million |
|-------|-----------------|--------------------------|-------------|---------------------------|-------------|
| 2017  | 2,109,602       | 1,368,227                | 741,376     | 190,339                   |             |
| 2018  | 2,216,547       | 1,431,178                | 785,369     | 206,420                   |             |
| 2019  | 2,311,586       | 1,502,333                | 809,253     | 218,255                   |             |
| 2020  | 2,373,278       | 1,557,612                | 815,666     | 215,492                   |             |
| 2021* | 2,685,545       | 1,809,125                | 876,420     | 231,984                   |             |

\*Provisional

### Quantum Indices

**10.5.** Details of manufacturing quantum indices and the respective percentage changes from 2017 to 2021 are shown in Tables 10.2 and 10.3 respectively. Table 10.4 presents details on production of selected commodities over the same period. The manufacturing sector volume of output increased by 6.0 per cent in 2021 from a revised growth of 0.2 per cent in 2020. The sub sectors

that contributed to this growth includes Other Non-Metallic Mineral Products which includes cement; Leather and Related Products; Dairy Products; Motor Vehicle, Trailers and Semi-Trailers; Sugar and, Meat and Meat Products. However, the Prepared and Preserved Fruits and Vegetables; Animal and Vegetable Fats and Oils; Manufacture of Furniture and Pharmaceutical Products sub sectors recorded declines during the review period.

**Table 10.2: Quantum Indices of Manufacturing Production, 2017-2021**

| <b>Industry Divisions and Groups Descriptions</b>        | <b>2017</b>  | <b>2018</b>  | <b>2019</b>  | <b>2020</b>  | <b>2021*</b> |
|--|--------------|--------------|--------------|--------------|--------------|
| Meat and Meat Products                                   | 100.0        | 106.0        | 117.1        | 87.1         | 98.5         |
| Processing and preserving of fish                        | 100.0        | 107.1        | 100.9        | 93.4         | 99.3         |
| Prepared and Preserved Fruits and Vegetables             | 100.0        | 104.1        | 86.1         | 81.7         | 70.2         |
| Animal and Vegetable Fats and Oils                       | 100.0        | 108.4        | 115.2        | 116.3        | 113.0        |
| Dairy Products   | 100.0        | 121.9        | 127.2        | 118.6        | 131.5        |
| Grain Mill Products                                      | 100.0        | 105.4        | 109.7        | 122.5        | 130.1        |
| Prepared Animal Feeds                                    | 100.0        | 96.6         | 100.5        | 103.9        | 108.4        |
| <b>Industry Divisions and Groups Descriptions</b>        | <b>2017</b>  | <b>2018</b>  | <b>2019</b>  | <b>2020</b>  | <b>2021*</b> |
| Bakery Products  | 100.0        | 114.5        | 113.3        | 109.5        | 119.7        |
| Sugar  | 100.0        | 130.6        | 117.2        | 160.5        | 186.2        |
| Cocoa, Chocolate and Sugar Confectionery                 | 100.0        | 97.6         | 106.6        | 108.8        | 111.7        |
| Food Products not elsewhere classified                   | 100.0        | 110.5        | 105.7        | 110.6        | 104.2        |
| <b>Total Food Products</b>                               | <b>100.0</b> | <b>110.2</b> | <b>109.9</b> | <b>116.1</b> | <b>119.7</b> |
| Beverages  | 100.0        | 105.7        | 113.6        | 92.8         | 100.5        |
| Tobacco Products   | 100.0        | 106.3        | 114.7        | 98.3         | 111.0        |
| <b>Beverages and Tobacco</b>                             | <b>100.0</b> | <b>105.8</b> | <b>113.8</b> | <b>93.7</b>  | <b>102.3</b> |
| Textiles   | 100.0        | 100.5        | 116.1        | 105.1        | 106.9        |
| Wearing Apparel  | 100.0        | 96.2         | 98.5         | 91.7         | 96.3         |
| Leather and Related Products                             | 100.0        | 125.8        | 124.9        | 106.4        | 123.0        |
| Wood and Products of Wood                                | 100.0        | 92.4         | 117.1        | 140.1        | 154.4        |
| Paper and Paper Products                                 | 100.0        | 93.0         | 95.8         | 85.5         | 94.5         |
| Printing and Production of Recorded Media                | 100.0        | 111.2        | 135.8        | 105.9        | 122.4        |
| Refined Petroleum Products                               | 100.0        | 106.6        | 110.4        | 103.6        | 108.4        |
| Chemical and Chemical Products                           | 100.0        | 101.6        | 108.5        | 110.4        | 115.6        |
| Pharmaceutical Products                                  | 100.0        | 108.1        | 113.2        | 115.2        | 114.4        |
| Plastic Products   | 100.0        | 114.3        | 118.0        | 116.8        | 119.1        |
| Other Non-metallic Mineral Products                      | 100.0        | 98.2         | 97.6         | 117.1        | 144.3        |
| Basic Metals   | 100.0        | 106.3        | 109.5        | 103.7        | 106.5        |
| Structural Metal Products                                | 100.0        | 91.1         | 93.3         | 86.9         | 95.7         |
| Fabricated Metal Products,except machinery and equipment | 100.0        | 103.1        | 102.9        | 113.2        | 122.1        |
| Electrical Equipment                                     | 100.0        | 100.7        | 84.3         | 74.8         | 76.5         |
| Machinery and Equipment nec                              | 100.0        | 105.0        | 110.1        | 108.5        | 112.7        |
| Motor Vehicle, Trailers and Semi Trailers                | 100.0        | 98.5         | 139.1        | 128.0        | 152.2        |
| Motorcycles  | 100.0        | 100.0        | 100.0        | 100.0        | 100.0        |
| Manufacture of furniture                                 | 100.0        | 121.9        | 108.0        | 104.3        | 100.6        |
| Other Manufacturing                                      | 100.0        | 102.5        | 102.2        | 106.0        | 107.5        |
| Repair and Installation of Machinery and Equipment       | 100.0        | 102.6        | 109.2        | 122.4        | 130.3        |
| <b>Overall</b>   | <b>100.0</b> | <b>106.7</b> | <b>110.0</b> | <b>110.2</b> | <b>116.7</b> |

\* Provisional

Items in bold refers to independent divisions

**Table 10.3: Percentage Change in Quantum Indices of Manufacturing Production, 2017-2021**

| Industry Divisions and Groups Descriptions               | Weight       | Percentage Change |             |             |              |            |
|--|--------------|-------------------|-------------|-------------|--------------|------------|
|  |              | 2017              | 2018        | 2019        | 2020         | 2021*      |
| Meat and Meat Products                                   | 0.9          | 8.2               | 6.0         | 10.5        | -25.6        | 13.1       |
| Processing and preserving of fish                        | 0.3          | -7.9              | 7.1         | -5.8        | -7.5         | 6.3        |
| Prepared and Preserved Fruits and Vegetables             | 2.0          | -4.3              | 4.1         | -17.3       | -5.2         | -14.0      |
| Animal and Vegetable Fats and Oils                       | 4.7          | 2.2               | 8.4         | 6.3         | 0.9          | -2.8       |
| Dairy Products   | 3.8          | -14.1             | 21.9        | 4.4         | -6.7         | 10.8       |
| Grain Mill Products                                      | 10.9         | 9.1               | 5.4         | 4.1         | 11.7         | 6.2        |
| Prepared Animal Feeds                                    | 2.6          | 1.7               | -3.4        | 4.0         | 3.4          | 4.3        |
| Bakery Products  | 3.2          | 8.1               | 14.5        | -1.1        | -3.3         | 9.3        |
| Sugar  | 3.2          | -41.2             | 30.6        | -10.2       | 36.9         | 16.0       |
| Cocoa, Chocolate and Sugar Confectionery                 | 1.2          | 3.9               | -2.4        | 9.3         | 2.0          | 2.6        |
| Food Products not elsewhere classified                   | 11.7         | -5.8              | 10.5        | -4.3        | 4.7          | -5.8       |
| <b>Total Food Products</b>                               | <b>44.5</b>  | <b>-5.0</b>       | <b>10.2</b> | <b>-0.2</b> | <b>5.6</b>   | <b>3.1</b> |
| Beverages  | 6.0          | 4.4               | 5.7         | 7.5         | -18.3        | 8.4        |
| Tobacco Products   | 1.2          | -6.7              | 6.3         | 7.9         | -14.3        | 12.9       |
| <b>Beverages and Tobacco</b>                             | <b>7.2</b>   | <b>2.4</b>        | <b>5.8</b>  | <b>7.5</b>  | <b>-17.7</b> | <b>9.2</b> |
| Textiles   | 1.3          | 8.5               | 0.5         | 15.6        | -9.5         | 1.6        |
| Wearing Apparel  | 3.0          | 9.7               | -3.8        | 2.4         | -6.9         | 5.0        |
| Leather and Related Products                             | 1.3          | 14.9              | 25.8        | -0.7        | -14.8        | 15.6       |
| Wood and Products of Wood                                | 0.7          | -9.6              | -7.6        | 26.7        | 19.6         | 10.2       |
| Paper and Paper Products                                 | 4.3          | 4.5               | -7.0        | 3.1         | -10.7        | 10.4       |
| Printing and Production of Recorded Media                | 2.8          | 13.2              | 11.2        | 22.1        | -22.0        | 15.6       |
| Refined Petroleum Products                               | 0.4          | 1.0               | 6.6         | 3.6         | -6.1         | 4.6        |
| Chemical and Chemical Products                           | 6.2          | 1.4               | 1.6         | 6.8         | 1.7          | 4.8        |
| Pharmaceutical Products                                  | 2.0          | 8.4               | 8.1         | 4.8         | 1.8          | -0.8       |
| Plastic Products   | 4.7          | -5.1              | 14.3        | 3.2         | -1.0         | 2.0        |
| Other Non-metallic Mineral Products                      | 6.1          | -7.0              | -1.8        | -0.6        | 19.9         | 23.2       |
| Basic Metals   | 8.0          | 5.8               | 6.3         | 3.0         | -5.3         | 2.7        |
| Structural Metal Products                                | 0.5          | 6.7               | -8.9        | 2.5         | -6.9         | 10.1       |
| Fabricated Metal Products,except machinery and equipment | 1.4          | -0.2              | 3.1         | -0.2        | 10.0         | 7.9        |
| Electrical Equipment                                     | 0.9          | -5.9              | 0.7         | -16.3       | -11.3        | 2.3        |
| Machinery and Equipment nec                              | 0.3          | 11.0              | 5.0         | 4.8         | -1.4         | 3.8        |
| Motor Vehicle, Trailers and Semi Trailers                | 2.0          | -21.2             | -1.5        | 41.2        | -8.0         | 18.9       |
| Motorcycles  | 0.4          | 0.0               | 0.0         | 0.0         | 0.0          | 0.0        |
| Manufacture of furniture                                 | 1.1          | -2.2              | 21.9        | -11.4       | -3.5         | -3.6       |
| Other Manufacturing                                      | 0.5          | 2.1               | 2.5         | -0.3        | 3.7          | 1.5        |
| Repair and Installation of Machinery and Equipment       | 0.6          | 2.0               | 2.6         | 6.4         | 12.0         | 6.5        |
| <b>Overall</b>   | <b>100.0</b> | <b>-1.7</b>       | <b>6.7</b>  | <b>3.0</b>  | <b>0.2</b>   | <b>6.0</b> |

\* Provisional

**10.6.** The quantity of manufactured and processed food products increased by 3.1 per cent in 2021 compared to a growth of 5.6 per cent in 2020. The growth was mainly driven by processing of sugar, meat and meat products, dairy products and bakery products which recorded growths of 16.0, 13.1, 10.8 and 9.3 per cent, respectively in 2021. However, Prepared and Preserved Fruits and Vegetables; and Animal and Vegetable Fats and Oils registered negative growths in the same period.

**10.7.** Production of Meat and Meat Products recorded a growth of 13.1 per cent in 2021 from a drop of 25.6 per cent in 2020. The increase was attributed to increase in production of sausages and similar meat products by 37.0 per cent in the year under review. Processing and Preserving of Fish registered a growth of 6.3 per cent in 2021. Prepared and Preserved Fruits and Vegetables and Food Products not elsewhere classified recorded negative growth of 14.0 and 5.8 per cent, respectively in 2021.

**10.8.** Dairy production in 2021 registered a significant growth of 10.8 per cent compared to a negative growth of 6.7 per cent in 2020. The growth was mainly due to increase in production of processed milk from 456.8 million litres in 2020 to 509.0 million litres in 2021 as shown in Table 10.4. The quantity of sugar produced rose to 700.2 thousand tonnes in 2021 representing a growth of 16.0 per cent. Production of Food Products not elsewhere classified which comprises of coffee and tea among others dropped by 5.8 per cent in the year under review with the production of milled coffee and tea decreasing by 6.5 and 5.6 per cent, respectively in 2021.

**10.9.** There was a decline in the production of animal and vegetable and oil by 2.8 per cent in the year under review. As shown in Table 10.4 the quantity of edible fats and margarine decreased from 285.1 thousand tonnes in 2020 to 275.7 thousand tonnes in 2021. Similarly, production of cooking oil dropped to 254.9 thousand tonnes in 2021 from 260.5 thousand tonnes in 2020.

**10.10.** The grain milling sub sector registered a growth of 6.2 per cent in 2021 compared to 11.7 per cent in 2020. Production of wheat flour increased by 14.6 per cent to 1,437.5 thousand tonnes in 2021 as presented in Table 10.4. However, production of maize flour declined by 3.4 per cent to 650.1 thousand tonnes in 2021. Manufacture of Bakery Products increased by 9.3 per cent in 2021 from a 3.3 per cent drop in 2020. The growth in the sub sector was a result of increased production of biscuits from 13.6 thousand tonnes in 2020 to 13.9 tonnes in 2021 and production of bread and other bakers ware by 10.3 per cent in the period under review. In the same period Prepared Animal Feeds increased by 4.3 per cent. Production of Cocoa, Chocolate and Sugar Confectionary Products increased by 2.6 per cent in 2021.

**10.11.** The Beverages and Tobacco sub sector grew by 9.2 per cent in the year under review. Production of beverages went up by 8.4 per cent on account of increased production of spirits and beer by 21.3 per cent, bottled water not sweetened or flavoured by 3.5 per cent while other non-alcoholic caloric beverages (soda) grew by 6.1 per cent. In the same period production of tobacco products grew by 12.9 per cent.

**Table 10.4: Production of Selected Commodities 2017 - 2021**

| Commodity                | Unit              | 2017    | 2018    | 2019    | 2020    | 2021*   |
|--------------------------|-------------------|---------|---------|---------|---------|---------|
| Processed Milk           | Litres (Millions) | 383.2   | 468.2   | 488.5   | 456.8   | 509.0   |
| Wheat flour <sup>1</sup> | Tonnes ('000)     | 1,246.5 | 1,325.4 | 1,372.7 | 1,254.0 | 1,437.5 |
| Maize flour <sup>1</sup> | „                 | 669.4   | 686.9   | 707.4   | 672.9   | 650.1   |
| Biscuits                 | „                 | 13.0    | 14.9    | 14.8    | 13.6    | 13.9    |
| Cooking oil              | „                 | 215.0   | 235.5   | 256.8   | 260.5   | 254.9   |
| Edible fats and magarine | „                 | 258.5   | 259.8   | 270.4   | 285.1   | 275.7   |
| Sugar                    | „                 | 376.1   | 491.1   | 440.9   | 603.8   | 700.2   |
| Coffee - milled          | „                 | 38.6    | 41.4    | 44.9    | 36.9    | 34.5    |
| Tea                      | „                 | 439.9   | 493.0   | 458.9   | 494.4   | 466.9   |
| Soft drinks (sodas)      | Litres (Millions) | 570.9   | 581.5   | 592.5   | 549.9   | 583.3   |
| Assembled vehicles       | Number            | 4,877.0 | 5,653.0 | 7,802.0 | 7,725.0 | 9,989.0 |
| Galvanized sheets        | Tonnes ('000)     | 262.8   | 270.4   | 274.4   | 247.7   | 250.4   |

\* Provisional

<sup>1</sup>Produced by formal Millers

**10.12.** In 2021, the Textiles sub sector recorded a growth of 1.6 per cent mainly on account of an increase in woven fabrics, knitting yarn and, sacks and bags. Manufacture of Wearing Apparel sub sector registered a 5.0 per cent growth in the period under review. The growth was supported by production of shirts and, jersey, pullovers, and cardigans which increased by 17.0 per cent and 4.1 per cent, respectively. However, production of T-shirts, singlets and other vests dropped by 3.3 per cent in the same period.

**10.13.** Leather and Related Products sub sector grew by 15.6 per cent in 2021 mainly due to an increase of 30.5 per cent in finished leather. Similarly, production of footwear with uppers of leather and those with outer soles and uppers of rubber or plastic increased by 22.9 and 5.7 per cent, respectively during the review period.

**10.14.** The Wood and Products of Wood sub sector recorded a growth in production of 10.2 per cent in 2021 because of increase in production of block

boards. The Paper and Paper Products sub sector recorded a growth of 10.4 per cent in the same period because of an increase in volumes of cartons, boxes, and cases by 4.8 per cent and exercise books by 24.6 per cent. Production of toilet papers and corrugated paper and paperboard each increased by 8.8 per cent. However, the production of labels of paper or paperboard declined by 25.9 per cent.

**10.15.** The Refined Petroleum Products sub sector recorded a growth of 4.6 per cent in production in 2021 on account of increase in the production of petroleum jelly. The Chemical and Chemical Products sub sector registered a growth of 4.8 per cent in 2021 mainly due to increased production of industrial gases (which includes hydrogen, nitrogen, oxygen, carbon dioxide and rare gases) by 14.6 per cent. The production of paints rose by 2.6 per cent in 2021. In the same year, the production of soap, cleaning preparations, perfumes and toilet preparations increased by 1.5 per cent. The Pharmaceutical Products sub sector declined by 0.8 per cent in 2021.

**10.16.** Plastic Products sub sector recorded 2.0 per cent growth in the year under review. This was attributable to increased production of tableware, kitchenware, other household articles; plastic bags/sacks; tubes, pipes and hoses; and self-adhesive plates, sheets, film, foil which increased by 9.1, 7.9, 6.7 and 6.3 per cent, respectively in the year 2021. Production of builders' ware of plastics and conveyance/packing of goods dropped by 7.2 and 5.0 per cent, respectively in the review period.

**10.17.** The Basic Metals sub sector recorded 2.7 per cent growth in 2021. This was mainly due to an increase in production of angles, shapes and sections of iron/steel; tubes and pipes; and bars and rods by 9.6, 3.5 and 1.7 per cent, respectively. In the same period, production of galvanized sheets increased by 1.1 per cent from 247.7 thousand metric tonnes in 2020 to 250.4 thousand metric tonnes in 2021, as presented in Table 10.4.

**10.18.** Production of Electrical Equipment increased by 2.3 per cent in 2021, on account of an increase in the production of insulated wires and cables. Manufacture of Machinery and Equipment n.e.c went up by 3.8 per cent in the period under review.

**10.19.** The Motor Vehicles, Trailers and Semi-Trailers sub sector registered a significant growth of 18.9 per cent in 2021. This was on account of an increase in the number of assembled motor vehicles by 29.3 per cent from 7,725 assembled vehicles in 2020 to 9,989 assembled vehicles in 2021. Similarly, production of bodies for motor vehicles; and trailers and semi-trailers increased by 1.3 per cent and 2.1 per cent, respectively during the review period.

**10.20.** Manufacture of Furniture dropped by 3.6 per cent in 2021 mainly due to a 3.6 per cent decrease in the production of mattresses. Other Manufacturing sub sector recorded a growth of 1.5 per cent. Repair and Installation of Machinery and Equipment registered a 6.5 per cent growth in the period under review.

**10.21.** The production of Other Non-Metallic Mineral Products, which is mainly comprised of cement and glass bottles, increased by 23.2 per cent in 2021. Production of glass bottles increased by 6.7 per cent during the review period.

### Cement Production and Utilization

**10.22.** Table 10.5 shows the cement production, imports, and utilization from 2017 to 2021. Cement production recorded significant growth in the last two years occasioned by expansions to meet the increased demand in the construction sector. Cement production grew by 23.7 per cent from 7,473.6 thousand tonnes in 2020 to 9,247.7 thousand tonnes in 2021 while consumption and stocks of cement rose by 23.4 per cent to 9,098.4 thousand tonnes in 2021. Cement export to Uganda and Tanzania during the review period more than doubled to stand at 30.5 thousand tonnes, this was in contrast with the previous years where a declining trend was observed. Similarly, export to all other countries rose significantly by 31.2 per cent to 142.4 thousand tonnes in 2021. Import of cement rose marginally to 23.6 thousand tonnes during the same period.

**Table 10.5: Cement Production and Utilization, 2017 - 2021**

| Year  | Production | Imports | “Consumption and Stocks” | ‘000 Tonnes           |                     |
|-------|------------|---------|--------------------------|-----------------------|---------------------|
|       |            |         |                          | “Uganda and Tanzania” | All Other Countries |
| 2017  | 6,230.3    | 14.7    | 5,857.9                  | 299.3                 | 89.1                |
| 2018  | 6,069.9    | 23.0    | 5,948.7                  | 43.5                  | 100.8               |
| 2019  | 6,163.0    | 26.4    | 6,129.1                  | 18.2                  | 42.0                |
| 2020  | 7,473.6    | 22.0    | 7,375.6                  | 11.5                  | 108.5               |
| 2021* | 9,247.7    | 23.6    | 9,098.4                  | 30.5                  | 142.4               |

\*Provisional.

### Producer Prices

**10.23.** The Producer Price Index (PPI) is valued at basic prices and measures the average change in the price of goods as they leave the factory. The overall inflation as measured by Producer Price Index rose by 7.32 per cent to 109.55 in 2021 from 102.08 in 2020 as shown in Table 10.6. This is the largest increase since the rebased index was introduced. The increase in prices was witnessed

in almost all sub sectors except in the manufacture of beverages, wood and products of wood and cork except furniture, and motor vehicles. The highest price increase in 2021 was in the manufacture of basic metals at 23.37 per cent followed by fabricated metal products at 11.49 per cent. Manufacture of motor vehicles recorded the largest price decrease of 2.58 per cent.

**Table 10.6: Producer Price Indices, 2017- 2021**

| Division | Description  | Weights       | March 2019= 100 |               |               |               |               |                       |
|----------|--|---------------|-----------------|---------------|---------------|---------------|---------------|-----------------------|
|          |  |               | 2017            | 2018          | 2019          | 2020          | 2021*         | % Change<br>2021 / 20 |
| 07       | Mining of metal ores <sup>1</sup>  | 1.52          | ..              | ..            | 102.82        | 107.24        | 115.05        | 7.29                  |
| 08       | Mining and Quarrying   | 0.81          | 93.99           | 99.00         | 102.12        | 101.35        | 109.47        | 8.01                  |
| 10       | Manufacture of food products   | 37.30         | 106.51          | 104.62        | 103.63        | 104.07        | 110.99        | 6.65                  |
| 11       | Manufacture of beverages   | 5.61          | 96.00           | 98.60         | 101.90        | 105.69        | 105.09        | -0.56                 |
| 12       | Manufacture of tobacco products  | 1.01          | 100.49          | 100.10        | 100.24        | 104.04        | 111.72        | 7.39                  |
| 13       | Manufacture of textiles  | 1.34          | 100.05          | 100.08        | 100.15        | 101.79        | 109.14        | 7.22                  |
| 14       | Manufacture of wearing apparel   | 2.47          | 100.41          | 100.13        | 100.03        | 95.03         | 102.48        | 7.84                  |
| 15       | Manufacture of leather and related products  | 1.10          | 98.45           | 99.92         | 100.58        | 106.08        | 116.53        | 9.86                  |
| 16       | Manufacture of wood and products of wood and cork except furniture                     | 1.02          | 76.54           | 92.91         | 96.98         | 97.79         | 96.80         | -1.02                 |
| 17       | Manufacture of paper and paper products  | 3.74          | 91.67           | 97.44         | 98.46         | 94.98         | 99.08         | 4.32                  |
| 18       | Printing and reproduction of recorded media  | 2.64          | 100.00          | 100.00        | 100.14        | 102.68        | 107.28        | 4.47                  |
| 20       | Manufacture of chemicals and chemical products   | 6.41          | 96.49           | 102.14        | 103.17        | 105.81        | 116.55        | 10.15                 |
| 21       | Manufacture of pharmaceuticals, medicinal chemical and botanical products <sup>1</sup> | 1.52          | ..              | ..            | 99.39         | 107.85        | 119.73        | 11.02                 |
| 22       | Manufacture of rubber and plastics products  | 4.41          | 93.06           | 93.92         | 99.38         | 97.11         | 102.88        | 5.95                  |
| 23       | Manufacture of other non-metallic mineral products                                     | 5.91          | 102.40          | 100.43        | 100.18        | 102.99        | 110.68        | 7.47                  |
| 24       | Manufacture of basic metals  | 6.99          | 93.95           | 96.74         | 100.19        | 97.39         | 120.15        | 23.37                 |
| 25       | Manufacture of fabricated metal products except machinery and equipment                | 2.02          | 94.01           | 99.88         | 100.52        | 99.51         | 110.94        | 11.49                 |
| 27       | Manufacture of electrical equipment <sup>1</sup>                                       | 1.30          | ..              | ..            | 100.12        | 100.48        | 108.48        | 7.96                  |
| 29       | Manufacture of motor vehicles  | 1.92          | 97.60           | 97.37         | 97.63         | 94.84         | 92.40         | -2.58                 |
| 35       | Electricity  | 9.23          | 102.22          | 99.13         | 102.21        | 99.84         | 105.47        | 5.64                  |
| 36       | Water  | 1.72          | 104.01          | 98.92         | 100.00        | 100.56        | 101.80        | 1.23                  |
|          | <b>Total</b>   | <b>100.00</b> | <b>99.78</b>    | <b>100.61</b> | <b>101.81</b> | <b>102.08</b> | <b>109.55</b> | <b>7.32</b>           |
|          | <b>Overall percentage change</b>   |               | <b>4.59</b>     | <b>0.84</b>   | <b>1.19</b>   | <b>0.27</b>   | <b>7.32</b>   |                       |

<sup>1</sup>Products introduced after the rebasing

**10.24.** Table 10.7 shows the average producer prices of some selected products from 2017 to 2021. Most of the selected products recorded increased producer prices during the year under review. Steel bars registered the highest increase in producer price at 26.5 per cent followed by wheat flour at 18.7 per cent. Producer prices of maize flour and paints declined by 9.0 and 8.1 per cent, respectively in 2021.

**Table 10.7 Average Producer Prices of Selected Products, 2017-2021**

| Product            | Units of Measure             | 2017     | 2018     | 2019     | 2020     | KSh/Unit<br>2021* |
|--------------------|------------------------------|----------|----------|----------|----------|-------------------|
| Vegetable oils     | 20 Litres                    | 3,950.6  | 3,997.2  | 3,940.8  | 3,965.4  | 4,640.9           |
| Milk               | Crate 18 packets each 500 Ml | 696.9    | 692.4    | 714.1    | 720.3    | 746.8             |
| Sugar              | One Tonne                    | 96,606.3 | 80,198.7 | 80,198.7 | 80,194.2 | 89,323.0          |
| Wheat flour        | 12 packets each 2Kg          | 1,317.4  | 1,329.7  | 1,531.6  | 1,486.7  | 1,764.1           |
| Maize Flour        | 12 packets each 2Kg          | 1,199.1  | 1,172.6  | 1,316.3  | 1,397.9  | 1,272.4           |
| Paints             | 4 Litres                     | 2,263.4  | 2,305.0  | 2,024.7  | 1,975.6  | 1,815.1           |
| Ballast            | One Tonne                    | 792.5    | 792.5    | 792.5    | 797.4    | 863.0             |
| Plastic water tank | 5,000 litre capacity         | 32,779.1 | 32,130.2 | 31,874.3 | 31,749.4 | 32,248.7          |
| Cement             | One Tonne                    | 12,223.2 | 12,130.3 | 12,069.7 | 12,187.4 | 12,962.5          |
| Steel bars         | 1 Kg                         | 80.7     | 86.2     | 85.5     | 86.0     | 108.8             |

\* Provisional

### Credit to Manufacturing Sector

**10.25.** Development finance institutions continued to play a great role in fostering industrial expansion and development through extension of loans. During the year under review, finance institutions experienced an increase in demand for loans and advances due to easing of COVID19 pandemic restrictions which revived businesses. Table 10.8 shows the approved credits in the manufacturing sector by both commercial banks and industrial financial institutions from 2017 to 2021. In the year under review, total credit approved by both commercial banks and industrial financial institutions rose to KSh 464.0 billion from KSh 410.3 billion in 2020. The total amount of credit advanced by industrial financial institutions increased from KSh 1,096.3 million in 2020 to KSh 1,394.5 million in 2021. Similarly, the total number of projects funded by these institutions increased from 320 in 2020 to 328 in 2021.

**10.26.** Manufacturing projects approved by commercial banks and other financial institutions in 2017 to 2021 is presented in Table 10.8. In the year under review, Kenya Development Corporation (KDC) approved 10 manufacturing projects worth KSh 521.4 million. The funding was for six start-ups and four expansion projects mainly in dairy processing, water purification and bottling and, nails and wire products.

**10.27.** Development Bank of Kenya (DBK) experienced a rapid increase in demand for loans and advances in 2021 compared to the year 2020. The easing of COVID-19 pandemic restrictions revived businesses and prompted re-opening of closed ones. In 2021, the bank approved KSh 342.9 million to three manufacturing projects mainly in heavy steel components, structural steel works and manufacturing of mattresses. This was an increase of more than threefold from projects worth KSh 100.9 million approved in 2020.

**Table 10.8: Manufacturing Projects Approved by Commercial Banks and Other Financial Institutions, 2017 - 2021**

| Institution  | Number of Projects |            |            |            |            | Approved credit (KSh Million) |                |                |                |                |
|--|--------------------|------------|------------|------------|------------|-------------------------------|----------------|----------------|----------------|----------------|
|  | 2017               | 2018       | 2019       | 2020       | 2021*      | 2017                          | 2018           | 2019           | 2020           | 2021*          |
| IDB Capital limited <sup>1</sup>                               | 3                  | 8          | 8          | 6          | -          | 200.1                         | 551.8          | 330.0          | 85.5           | -              |
| Industrial and Commercial Development Corporation <sup>1</sup> | 7                  | 4          | 6          | 3          | -          | 791.0                         | 315.0          | 640.0          | 100.9          | -              |
| Kenya Development Corporation <sup>1</sup>                     | -                  | -          | -          | -          | 10         | -                             | -              | -              | -              | 521.4          |
| Development Bank of Kenya.                                     | 3                  | 3          | 1          | 3          | 3          | 130.5                         | 230.0          | 94.0           | 100.9          | 342.9          |
| Kenya Industrial Estates Limited                               | 280                | 225        | 380        | 308        | 315        | 181.0                         | 243.7          | 602.7          | 809.0          | 530.2          |
| <b>Sub - total</b>   | <b>293</b>         | <b>240</b> | <b>395</b> | <b>320</b> | <b>328</b> | <b>1,302.6</b>                | <b>1,340.5</b> | <b>1,666.7</b> | <b>1,096.3</b> | <b>1,394.5</b> |
| All other commercial banks <sup>2</sup>                        | ..                 | ..         | ..         | ..         | ..         | 314,046                       | 334,388        | 365,257        | 409,192        | 462,629        |
| <b>TOTAL</b>   | <b>293</b>         | <b>240</b> | <b>395</b> | <b>320</b> | <b>328</b> | <b>315,348</b>                | <b>335,729</b> | <b>366,924</b> | <b>410,288</b> | <b>464,024</b> |

Source: CBK, IDBC, ICDC, KDC, DBK AND KIE

\* Provisional

<sup>1</sup> IDB Capital and ICDC merged to form KDC<sup>2</sup> Source is CBK (excludes DBK)

**10.28.** Kenya Industrial Estates (KIE) continued to play its role of promoting small scale and micro enterprises by financing their development activities as shown in Table 10.9. In the year under review, the amount of loans advanced by KIE to manufacturing

projects decreased to KSh 530.2 million from KSh 809 million in 2020. However, the number of manufacturing projects approved increased marginally from 308 in 2020 to 315 in 2021. The funding was for expansion of existing projects.

**Table 10.9: Industrial Projects Approved by Kenya Industrial Estates, 2017-2021**

| Descriptions  | Number of Projects |            |            |            |            | Advanced Loans (KSh '000) |                |                |                |                |
|---|--------------------|------------|------------|------------|------------|---------------------------|----------------|----------------|----------------|----------------|
|   | 2017               | 2018       | 2019       | 2020       | 2021*      | 2017                      | 2018           | 2019           | 2020           | 2021*          |
| Manufacture of food products  | 93                 | 56         | 137        | 136        | 116        | 53,391                    | 79,244         | 241,827        | 443,210        | 233,600        |
| Manufacture of beverages  | -                  | 1          | 2          | -          | -          | -                         | 9,000          | 850            | -              | -              |
| Manufacture of animal feeds   | -                  | 6          | -          | -          | -          | -                         | 22,550         | -              | -              | -              |
| Manufacture of textiles and apparel                                     | 43                 | 36         | 66         | 42         | 53         | 20,700                    | 26,535         | 118,235        | 89,200         | 56,710         |
| Manufacture of leather and related products                             | 11                 | 3          | 8          | -          | 5          | 765                       | 10,680         | 10,533         | -              | 17,050         |
| Manufacture of wood and Products of wood and cork except furniture      | 39                 | 20         | 31         | 39         | 38         | 27,782                    | 12,630         | 22,835         | 55,562         | 34,140         |
| Printing and reproduction of recorded media                             | 10                 | 13         | 29         | 10         | 14         | 26,858                    | 11,650         | 78,740         | 6,375          | 25,150         |
| Manufacture of Chemicals and chemical products                          | 3                  | 5          | 3          | 11         | 2          | 6,000                     | 4,450          | 12,340         | 61,300         | 11,000         |
| Manufacture of other non-metallic mineral products                      | 7                  | 4          | -          | -          | -          | 4,490                     | 1,570          | -              | -              | -              |
| Manufacture of fabricated metal products except machinery and equipment | 66                 | 72         | 93         | 60         | 63         | 32,669                    | 57,769         | 106,902        | 135,590        | 114,720        |
| Manufacture of furniture  | -                  | 5          | -          | -          | -          | -                         | 4,000          | -              | -              | -              |
| Manufacture of Electricals and Accessories                              | -                  | -          | 9          | 10         | 24         | -                         | -              | 9,675          | 17,800         | 37,850         |
| Other manufacturing n.e.c.  | -                  | -          | 1          | -          | -          | -                         | -              | 450            | -              | -              |
| Repair and installation of machinery and equipment                      | 8                  | 4          | 1          | -          | -          | 8,300                     | 3,600          | 300            | -              | -              |
| <b>TOTAL</b>  | <b>280</b>         | <b>225</b> | <b>380</b> | <b>308</b> | <b>315</b> | <b>180,954</b>            | <b>243,678</b> | <b>602,686</b> | <b>809,037</b> | <b>530,220</b> |

Source: Kenya Industrial Estates Ltd

\* Provisional

- means no project

**10.29.** In the year under review, KenInvest recorded an increase in proposed investments to KSh 7.4 billion for 30 projects from KSh 4.9 billion for 21 projects registered in 2020, as shown in Table 10.10.

**Table 10.10: Industrial Projects Approved by Kenya Industrial Estates, 2017-2021**

|                             | 2017 | 2018 | 2019 | 2020 | 2021* |
|-----------------------------|------|------|------|------|-------|
| Number of Projects          | 39   | 47   | 43   | 21   | 30    |
| Capital Cost ( KSh billion) | 26.5 | 14.4 | 35.1 | 4.9  | 7.4   |

Source:KenInvest

\* Provisional

<sup>1</sup>Figures presented are only for projects for investors registered with the Authority

### Export Processing Zones

**10.30.** The Export Processing Zones (EPZ) has made positive contribution to the economy by improving business operating environment especially in textile, apparel, and leather sub sectors. Table 10.11 shows selected key performance indicators under EPZ program from 2017 to 2021. The number of gazetted zones in 2021 stood at 82, out of which 76 were owned and operated privately while six were public.

**10.31.** Employment in the EPZ enterprises expanded by 18.2 per cent to 66.6 thousand persons in 2021 after recording a contraction in 2020. Similarly, employment of Kenyans in these enterprises increased by 17.0 per cent to 65.9 thousand persons in 2021.

**10.32.** The total sales by EPZ enterprises increased by 21.5 per cent to KSh 98.7 billion in 2021. The value of local sales by EPZ enterprises increased from KSh 6.2 billion in 2020 to KSh 7.3 billion in 2021 while exports increased by 22.8 per cent to KSh 91.3 billion in 2021. Imports increased by 26.5 per cent to KSh 47.4 billion in 2021 from KSh 37.5 billion in 2020.

**10.33.** The cumulative capital investment in form of equipment, machinery and infrastructure increased by 4.4 per cent to KSh 122.2 billion in 2021 from KSh 117.0 billion in 2020. The growth was due to new zones and enterprises commissioned in the year under review as well as expansion of the existing ones.

**Table 10.11: Selected EPZ Performance Indicators, 2017-2021**

|                                       | Unit        | 2016          | 2017          | 2018          | 2019          | 2020          | 2021*         |             |
|---------------------------------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|
| Gazetted Zones                        | Number      | 65            | 71            | 72            | 74            | 76            | 82            | 7.9         |
| Enterprises Operating                 | "           | 111           | 131           | 136           | 137           | 138           | 145           | 5.1         |
| Employment - Locals                   | "           | 52,947        | 54,764        | 57,099        | 60,390        | 56,293        | 65,858        | 17.0        |
| - Expatriates                         | "           | 618           | 722           | 644           | 665           | 647           | 796           | 23.0        |
| <b>Total Workers</b>                  | "           | <b>53,565</b> | <b>55,486</b> | <b>57,743</b> | <b>61,055</b> | <b>56,387</b> | <b>66,654</b> | <b>18.2</b> |
| Export                                | KSh Million | 64,151        | 60,729        | 72,390        | 68,572        | 74,360        | 91,336        | 22.8        |
| Domestic Sales <sup>1</sup>           | "           | 4,418         | 6,541         | 4,880         | 8,617         | 6,171         | 7,317         | 18.6        |
| <b>Total Sales</b>                    | "           | <b>68,569</b> | <b>67,270</b> | <b>77,270</b> | <b>77,189</b> | <b>80,531</b> | <b>98,653</b> | <b>22.5</b> |
| Imports                               | "           | 30,160        | 30,305        | 34,229        | 39,840        | 37,504        | 47,436        | 26.5        |
| Local Purchases of Goods and Services | "           | 10,742        | 11,089        | 10,385        | 9,761         | 12,346        | 14,480        | 17.3        |
| Capital Investment                    | "           | 88,977        | 95,278        | 105,066       | 107,877       | 116,974       | 122,155       | 4.4         |

Source: Export Processing Zones Authority (EPZA)

\* Provisional

<sup>1</sup> Includes sales to duty free shops**African Growth and Opportunity Act**

**10.34.** Table 10.12 shows performance under the African Growth and Opportunity Act (AGOA). All the selected indicators under the EPZ garment / apparel sub sector reported growths in 2021. In 2021 the number of enterprises increased by 3.6 per cent. The direct employment in the sub sector increased

by 10.5 per cent to 50.4 thousand persons in 2021. The value of exports increased by 19.9 per cent from KSh 42.3 billion in 2020 to KSh 50.7 billion in 2021. Capital investment increased by 20.7 per cent to KSh 23.1 billion in 2021.

**Table 10.12: Selected EPZ Garment / Apparel Performance Indicators under AGOA, 2017-2021**

|                                  | 2017   | 2018   | 2019   | 2020   | 2021*  | % Change |
|----------------------------------|--------|--------|--------|--------|--------|----------|
| Number of Enterprises            | 21     | 22     | 24     | 28     | 29     | 3.6      |
| Number of Employees              | 43,987 | 46,248 | 49,489 | 45,588 | 50,359 | 10.5     |
| Capital Investment (KSh Million) | 15,880 | 16,146 | 18,065 | 19,133 | 23,096 | 20.7     |
| Exports (KSh Million).           | 33,051 | 41,578 | 46,066 | 42,278 | 50,679 | 19.9     |

Source: Export Processing Zones Authority

\*Provisional

# The Construction Sector

## Overview

The value and volume of construction activities in Kenya are key indicators of the general economic performance due to the significant contribution of the sector to the total GDP. In 2021, the construction sector registered a growth of 6.6 per cent compared to a growth of 10.1 per cent recorded in 2020. The roads sub-sector in 2021 received significant boost from the private sector participation through Public-Private Partnerships (PPPs) in some of the projects. For instance, the Nairobi Express Way, which is a mega project under the PPPs and runs from Mlolongo through the Jomo Kenyatta International Airport (JKIA) and the Nairobi Central Business District (CBD) to Westlands area along Waiyaki Way. This project was 82.0 per cent complete as at 31st December 2021. Likewise, the dualling of the Nairobi Eastern Bypass and the construction of Makupa Causeway Bridge were also launched during the review period.

11.2 The length of paved super-highways, international trunk roads and national roads improved from 11.0 thousand kilometres as at 30th June 2020 to 11.1 thousand kilometres as at 30th June 2021. Similarly, the length of paved primary roads rose from 6.1 thousand kilometres to 7.5 thousand kilometres over the same period. Consequently, the total length of paved roads increased by 2.3 per cent to 21.8 thousand kilometres. National Government expenditure on roads is expected to increase by 6.1 per cent, from KSh 195.3 billion in 2020/21 to KSh 207.2 billion in 2021/22.

Employment in the sector registered an upward growth with private employment increasing by 2.3 per cent to 217.3 thousand employees. Likewise, public employment in the construction sector increased from 9.1 thousand employees in 2020 to 9.2 thousand employees in 2021. Credit advanced to the Construction and Real Estate sectors by commercial banks went up from KSh 526.5 billion in 2020 to KSh 531.3 billion in 2021.

**11.3.** In line with the Big-4-Agenda, the Government continued to facilitate acquisition of affordable housing to Kenyans. In 2021, 431 housing units were completed by the State Department for Housing at an estimated cost of KSh. 741.3 million. As at December 2021, there were 3,480 housing units under construction by the State Department for Housing (SDH), with an estimated construction cost of KSh 6.9 billion. Budgeted Government expenditure on housing for 2021/22 is however expected to decrease by 48.4 per cent to KSh 14.1 billion. The value of buildings completed in the Nairobi City County (NCC) decreased by 11.9 per cent, to KSh 88.1 billion in

2021 from KSh 100.0 billion in 2020. Building plans approved by the Nairobi City County declined from KSh 153.6 billion in 2020 to KSh 102.9 billion in 2021.

### Key Construction Indicators

**11.4.** Table 11.1 presents selected key indicators in the construction sector for the period 2017 to 2021. The real value of reported public building works completed decreased from KSh 70.8 million in 2020 to KSh 63.2 million in 2021. The decline could be attributed to the few housing units completed by the SDH during the review period. The real value of government expenditure on roads increased from KSh 494.8 million in 2020 to KSh 534.6 million in 2021 due to the increased allocation of funds to the road sub-sector. Cement consumption increased by 23.0 per cent to 9.1 million tonnes in 2021. Credit advanced to the Construction and the Real Estate sectors by commercial banks increased by 0.9 per cent to KSh 531.3 billion in 2021. Total employment in the construction sector went up by 2.5 per cent to 226.5 thousand persons in 2021.

**Table 11.1: Selected Key Economic Indicators in the Construction Sector, 2017 - 2021**

| Indicator   | Unit        | 2017      | 2018      | 2019      | 2020      | 2021*     |
|---|-------------|-----------|-----------|-----------|-----------|-----------|
| Reported Real Value of Private Building Works Completed in Nairobi City County <sup>1</sup> | KSh Million | 443.1     | 466.2     | 471.7     | 476.2     | 464.5     |
| Reported Real Value of Public Building Works Wompleted by the SDH <sup>1</sup>              | KSh Million | 59.4      | 57.9      | 38.5      | 70.8      | 63.2      |
| Government Expenditure on Roads   | KSh Million | 388.0     | 415.4     | 592.9     | 494.8     | 534.6     |
| Cement consumption  | 000 tonnes  | 5,857.9   | 5,948.7   | 6,129.1   | 7,375.6   | 9,098.4   |
| Private Employment <sup>+</sup>   | 000 persons | 204.9     | 213.4     | 212.7     | 212.4     | 217.3     |
| Public Employment   | 000 persons | 8.5       | 8.6       | 8.8       | 9.1       | 9.2       |
| Loans and Advances from Commercial Banks to the sector <sup>2</sup>                         | KSh Million | 482,717.0 | 482,725.0 | 489,889.0 | 526,489.0 | 531,294.0 |

\* Revised

\* Provisional

<sup>1</sup>Values have been deflated using the Construction Input Price Indices from 2019

<sup>2</sup> Includes advances to the Real Estate sector

### Indices of Construction Inputs

**11.5.** Table 11.2 presents the quarterly indices of construction inputs for 2021. In the fourth quarter of 2021, the overall construction cost index went up to 106.12 compared to 106.06 in the third quarter. Indices of Materials and; Transport and Fuels also

went up by 0.12 per cent and 0.71 per cent, respectively. Indices of Equipment and labour went down by 0.37 per cent and 0.02 per cent respectively in the same period.

**Table 11.2: Quarterly Indices of Construction Inputs in 2021**

| Products                               | Weight        | Dec-19     | Q1-2021       | Q2-2021       | Q3-2021       | Q4-2021       |
|--|---------------|------------|---------------|---------------|---------------|---------------|
| Materials                              | 51.09         | 100        | 106.06        | 108.30        | 108.36        | 108.49        |
| Equipment                              | 20.26         | 100        | 102.28        | 103.43        | 103.33        | 102.95        |
| Transport and Fuels                    | 9.64          | 100        | 100.80        | 103.62        | 103.71        | 104.45        |
| Labour                                 | 19.01         | 100        | 103.75        | 103.89        | 104.00        | 103.98        |
| <b>Overall Construction Cost index</b> | <b>100.00</b> | <b>100</b> | <b>104.35</b> | <b>106.02</b> | <b>106.06</b> | <b>106.12</b> |

**11.6.** The cost of construction projects highly depends on the inputs of labour for the various activities undertaken during construction. Wages represent the average monthly payments to the skilled, semi-skilled and unskilled workers. Optimum use of labour in

construction work is essential to minimize the construction cost. As shown in Table 11.3, there were no new collective bargaining agreements in the sector in 2020/21. Consequently, wages that were negotiated in 2020 remained the same in 2021.

**Table 11.3: Monthly Average Basic Wages in the Construction Industry, 2017 – 2021**

| Category of Workers | 2017   | 2018   | 2019   | 2020   | 2021   |
|---------------------|--------|--------|--------|--------|--------|
| Unskilled           | 21,497 | 22,586 | 23,651 | 24,609 | 24,609 |
| Semi-Skilled        | 29,757 | 31,348 | 32,748 | 34,074 | 34,074 |
| Skilled             | 42,794 | 45,171 | 47,137 | 49,025 | 49,025 |

Source: Ministry of Labour

### Construction of Buildings

**11.7.** The number of private buildings completed within Nairobi City County (NCC) and public residential buildings constructed by the State Department for Housing and the National Housing Corporation (NHC) are presented in Table 11.4. The number of

completed buildings within the NCC was 13,350 in 2021 compared to 16,248 that was reported in 2020. During the year under review, 431 buildings were completed by the State Department for Housing, comprising 360 housing units for the national police

and prisons services, and 71 housing units constructed through the Appropriate Building Materials and Technologies (ABMT). Approximately 3,480 housing units were under construction, with an estimated con-

struction cost of KSh 6.9 billion as at 31st December 2021. In addition, during the same period, there were 424 housing units under construction by the NHC at an estimated cost of KSh 1.7 billion.

**Table 11.4: Reported Number of Private and Public Buildings Completed, 2017 – 2021**

| Year  | Private (Nairobi City County) |                 |        | Public Residential           |                              |       | Number |
|-------|-------------------------------|-----------------|--------|------------------------------|------------------------------|-------|--------|
|       | Residential                   | Non-Residential | Total  | National Housing Corporation | State Department for Housing | Total |        |
| 2017  | 9,864                         | 2,038           | 11,902 | 0                            | 1,164                        |       | 1,164  |
| 2018  | 10,785                        | 1,940           | 12,725 | 180                          | 250                          |       | 430    |
| 2019  | 11,802                        | 2,174           | 13,976 | 100                          | 430                          |       | 530    |
| 2020  | 13,221                        | 3,027           | 16,248 | 2,332                        | 338                          |       | 2,670  |
| 2021* | 10,863                        | 2,487           | 13,350 | 0                            | 431                          |       | 431    |

Source: Nairobi City County, National Housing Corporation and The State Department for Housing  
\* Provisional

**11.8.** The value of completed private and public buildings was the highest in 2020 within the 2017 to 2021 period as shown in Table 11.5. The value of completed buildings reported in the NCC was KSh

88.1 billion in 2021 compared to KSh 100.0 billion in 2020. The value of completed housing units by the SDH decreased from KSh 7,347.0 million in 2020 to KSh 741.3 million in 2021.

**Table 11.5: Reported Value of Private and Public Buildings Completed, 2017 – 2021**

| Year  | Private (Nairobi City County) |                 |           | Public Residential           |                              |       | KSh Million |
|-------|-------------------------------|-----------------|-----------|------------------------------|------------------------------|-------|-------------|
|       | Residential                   | Non-Residential | Total     | National Housing Corporation | State Department for Housing | Total |             |
| 2017  | 74,347.1                      | 11,781.3        | 86,128.4  | 0.0                          | 2,347.0                      |       | 2,347.0     |
| 2018  | 77,722.2                      | 12,405.2        | 90,127.4  | 816.0                        | 730.3                        |       | 1,546.3     |
| 2019  | 80,346.5                      | 13,635.8        | 93,982.3  | 370.2                        | 1,138.8                      |       | 1,509.1     |
| 2020  | 85,239.6                      | 14,801.7        | 100,041.3 | 1,737.3                      | 7,347.0                      |       | 9,084.3     |
| 2021* | 75,088.9                      | 13,039.0        | 88,127.9  | 0.0                          | 741.3                        |       | 741.3       |

Source: Nairobi City County, National Housing Corporation and the State Department for Housing  
\* Provisional

**11.9.** In 2021, the total value of building plans approved by the NCC was KSh 102.9 billion, representing a decline of 33.0 per cent from KSh 153.6 billion recorded in 2020. The value of building works

completed decreased by 11.9 per cent to KSh 88.1 billion in the same period. The decrease could be attributed to the increase in the cost of construction materials, transport and fuel.

**Table 11.6: Value of Reported Private Building Plans Approved and Building Works Completed in Nairobi City County, 2017 – 2021**

| Year  | Building Plans Approved | Building Works Completed <sup>1</sup> | <i>KSh Million</i> |
|-------|-------------------------|---------------------------------------|--------------------|
| 2017  | 240,752.0               | 86,128.4                              |                    |
| 2018  | 210,296.7               | 90,127.4                              |                    |
| 2019  | 207,624.9               | 93,982.3                              |                    |
| 2020  | 153,575.4               | 100,041.3                             |                    |
| 2021* | 102,856.5               | 88,127.9                              |                    |

Source: Nairobi City County

\*Provisional

<sup>1</sup> Excludes extensions

### Government Credit on Housing

**11.10.** Table 11.7 presents housing loans advanced by the Government through the National Housing Corporation by County for the 2017/18 to 2020/21 period. During the review period, the amount advanced

had a ceiling of KSh 3.0 million, while issuance of loans was put on hold and therefore there were no returns in the last two financial years.

**Table 11.7: Housing Loans Advanced by the National Housing Corporation by County, 2017/18-2020/21**

| County       | 2017/18         |                  | 2018/19         |                  | 2019/20         |           | 2020/21         |           |
|--------------|-----------------|------------------|-----------------|------------------|-----------------|-----------|-----------------|-----------|
|              | Number of Loans | KSh '000'        | Number of Loans | KSh '000'        | Number of Loans | KSh '000' | Number of Loans | KSh '000' |
| Bungoma      | 1               | 1,500.0          | 1               | 525.0            | -               | -         | -               | -         |
| Embu         | 1               | 1,800.0          | 1               | 2,500.0          | -               | -         | -               | -         |
| Kajiado      | 4               | 10,050.0         | 5               | 6,287.5          | -               | -         | -               | -         |
| Kakamega     | -               | -                | 5               | 10,650.0         | -               | -         | -               | -         |
| Kiambu       | 5               | 18,650.0         | 5               | 12,300.0         | -               | -         | -               | -         |
| Kirinyaga    | 2               | 4,600.0          | -               | -                | -               | -         | -               | -         |
| Kisii        | -               | -                | 3               | 7,400.0          | -               | -         | -               | -         |
| Kisumu       | 2               | 3,850.0          | 5               | 8,560.0          | -               | -         | -               | -         |
| Kitui        | 2               | 3,400.0          | -               | -                | -               | -         | -               | -         |
| Machakos     | 8               | 16,880.0         | 1               | 7,200.0          | -               | -         | -               | -         |
| Makueni      | 1               | 2,300.0          | -               | -                | -               | -         | -               | -         |
| Marsabit     | 1               | 3,000.0          | -               | -                | -               | -         | -               | -         |
| Meru         | 3               | 5,100.0          | -               | -                | -               | -         | -               | -         |
| Migori       | -               | -                | 1               | 3,000.0          | -               | -         | -               | -         |
| Mombasa      | 1               | 3,000.0          | -               | -                | -               | -         | -               | -         |
| Murang'a     | -               | -                | 3               | 7,000.0          | -               | -         | -               | -         |
| Nairobi City | 8               | 17,540.0         | 8               | 18,350.0         | -               | -         | -               | -         |
| Nakuru       | 4               | 9,300.0          | 6               | 11,400.0         | -               | -         | -               | -         |
| Nyandarua    | -               | -                | 1               | 3,000.0          | -               | -         | -               | -         |
| Vihiga       | -               | -                | 2               | 5,000.0          | -               | -         | -               | -         |
| Taita Taveta | 2               | 3,150.0          | 1               | 1,750.0          | -               | -         | -               | -         |
| Trans Nzoia  | -               | -                | 1               | 1,100.0          | -               | -         | -               | -         |
| Uasin Gishu  | 1               | 1,050.0          | -               | -                | -               | -         | -               | -         |
| <b>Total</b> | <b>46</b>       | <b>105,170.0</b> | <b>49</b>       | <b>106,022.5</b> | <b>-</b>        | <b>-</b>  | <b>-</b>        | <b>-</b>  |

Source: National Housing Corporation

### National Government Expenditure on Housing

**11.11.** Actual expenditure on housing increased from KSh 24.9 billion in 2019/20 to KSh 25.6 billion in 2020/21, with a 93.9 per cent utilization rate of budgeted expenditure as shown in Table 11.8. Budgeted expenditure on housing for 2021/22 decreased by 48.4 per cent to KSh 14.1 billion.

**Table 11.8: Government Expenditure on Housing, 2017/18 – 2021/22**

| Year                 | Expenditure in KSh Million |          | Actual as a Percentage of Approved Expenditure |
|----------------------|----------------------------|----------|--|
|                      | Approved                   | Actual   |  |
| 2017/18              | 18,409.9                   | 16,130.0 | 87.6   |
| 2018/19              | 26,810.0                   | 24,793.0 | 92.5   |
| 2019/20              | 27,851.4                   | 24,930.2 | 89.5   |
| 2020/21 <sup>+</sup> | 27,245.0                   | 25,582.8 | 93.9   |
| 2021/22 <sup>1</sup> | 14,054.6                   |          |  |

Source: State Department for Housing

<sup>+</sup> Revised<sup>1</sup> Budget Estimates

### Road Construction

**11.12.** Overall national government expenditure on roads is expected to increase from KSh 195.3 billion in 2020/21 to KSh 207.2 billion in 2021/22 as presented in Table 11.9. Expenditure on Trunk and Primary roads in 2021/22 is expected to account for 39.0 per cent of total government expenditure on roads. Secondary and minor roads are expected to

have a development expenditure of KSh 45.7 billion while that for miscellaneous roads, including urban roads, is expected to increase to KSh 11.6 billion over the review period. Recurrent expenditure, which is mainly for road maintenance and repairs, is expected to rise from KSh 66.7 billion in 2020/21 to KSh 69.1 billion in 2021/22.

**Table 11.9: National Government Expenditure on Roads, 2017/18 - 2021/22**

| Financial Year                        | 2017/18          | 2018/19          | 2019/20          | 2020/21 <sup>+</sup> | 2021/22 <sup>1</sup> | KSh Million |
|---------------------------------------|------------------|------------------|------------------|----------------------|----------------------|-------------|
| <b>Development:</b>                   |                  |                  |                  |                      |                      |             |
| Trunk and Primary Roads (A, B and C)  | 52,029.0         | 47,760.6         | 77,098.0         | 75,219.8             | 80,739.7             |             |
| Secondary and Minor Roads (D and E)   | 40,869.0         | 37,784.2         | 59,106.0         | 42,560.5             | 45,683.7             |             |
| Miscellaneous Roads (Including Urban) | 11,883.6         | 11,116.5         | 13,251.0         | 10,816.7             | 11,610.5             |             |
| <b>Sub-total</b>                      | <b>104,781.6</b> | <b>96,661.3</b>  | <b>149,455.0</b> | <b>128,597.0</b>     | <b>138,034.0</b>     |             |
| <b>Recurrent:</b>                     |                  |                  |                  |                      |                      |             |
| Maintenance & Repair                  | 53,830.0         | 57,815.8         | 57,738.0         | 66,653.0             | 69,119.9             |             |
| <b>Total</b>                          | <b>158,611.6</b> | <b>154,477.2</b> | <b>207,193.0</b> | <b>195,250.0</b>     | <b>207,153.9</b>     |             |

Source: State Department for Infrastructure and the Kenya Roads Board

<sup>+</sup> Revised<sup>1</sup> Provisional

**11.13.** The ‘R2000 programme’ and the ‘R10000 Programme’ are methods of road improvement and upgrading using low volume seal technology and conventional approaches. The programmes have enabled the continued development of rural roads across the counties through collaboration of the National Government, County governments and other stakeholders. Table 11.10 shows the status

of ongoing Road Programmes for the period, 2019-2021. In both 2020 and 2021, all counties except Mombasa, Lamu and the Nairobi City had roads under the programmes. During the review period, there were 2,712.5 kilometres of ‘R2000 programme’ and ‘R10000 Programme’ roads under improvement and upgrading, with an estimated construction cost of KSh 355.5 billion.

**Table 11.10: Status of Ongoing R2000 and R10000 Programme for the Period, 2019 - 2021**

| Year          | 2019   |                 |                            |                | 2020                                 |                 |                            |                | 2021*                                |                 |                            |                |                                      |
|---------------|--------|-----------------|----------------------------|----------------|--------------------------------------|-----------------|----------------------------|----------------|--------------------------------------|-----------------|----------------------------|----------------|--------------------------------------|
|               | County | Additional (Km) | Total Length at Start (Km) | Work Done (Km) | Estimated Project Cost (KSh Million) | Additional (Km) | Total Length at Start (Km) | Work Done (Km) | Estimated Project Cost (KSh Million) | Additional (Km) | Total Length at Start (Km) | Work Done (Km) | Estimated Project Cost (KSh Million) |
| Mombasa       | -      | -               | -                          | -              | -                                    | -               | -                          | -              | -                                    | -               | -                          | -              | -                                    |
| Kwale         | -      | 105.7           | 34.9                       | 6,293.3        | 22.2                                 | 93.0            | 57.7                       | 4,188.1        | 52.2                                 | 87.5            | 80.8                       | 5,662.3        |                                      |
| Kilifi        | -      | 83.9            | 32.6                       | 7,815.0        | 154.2                                | 205.5           | 186.4                      | 8,506.7        | 85.9                                 | 105.0           | 63.0                       | 11,782.3       |                                      |
| Tana River    | -      | 12.4            | 10.1                       | 761.6          | -                                    | 2.4             | 2.4                        | 761.6          | 103.6                                | 103.6           | 34.5                       | 5,876.0        |                                      |
| Lamu          | -      | -               | -                          | -              | -                                    | -               | -                          | -              | -                                    | -               | -                          | -              |                                      |
| Taita Taveta  | -      | -               | -                          | -              | 136.0                                | 136.0           | 42.8                       | 6,020.7        | -                                    | 93.2            | 93.2                       | 6,020.7        |                                      |
| Garisa        | -      | -               | -                          | -              | -                                    | -               | -                          | -              | 15.0                                 | 15.0            | 15.0                       | 678.0          |                                      |
| Wajir         | 90.0   | 90.0            | 24.5                       | 4,027.5        | -                                    | 65.5            | 32.8                       | 4,027.5        | 24.5                                 | 57.2            | 32.7                       | 3,514.9        |                                      |
| Manderra      | 70.0   | 70.0            | 3.3                        | 2,800.0        | 3.3                                  | 66.7            | 3.6                        | 3,222.8        | 3.3                                  | 66.4            | 7.9                        | 2,449.8        |                                      |
| Marsabit      | -      | 12.1            | 4.9                        | 980.4          | 12.8                                 | 20.0            | 13.9                       | 980.4          | -                                    | 6.1             | 6.1                        | 980.4          |                                      |
| Isiolo        | -      | 41.6            | 4.0                        | 4,310.9        | 44.1                                 | 81.7            | 45.8                       | 3,946.1        | -                                    | 35.9            | 32.1                       | 3,566.3        |                                      |
| Meru          | -      | 124.7           | 61.4                       | 17,894.0       | 286.2                                | 349.5           | 177.1                      | 16,176.3       | -                                    | 172.4           | 82.3                       | 11,505.6       |                                      |
| Tharaka Nithi | -      | 106.0           | 38.1                       | 6,025.8        | 42.8                                 | 110.7           | 35.4                       | 3,470.0        | 61.0                                 | 136.3           | 55.1                       | 6,034.3        |                                      |
| Embu          | -      | 40.8            | 8.4                        | 4,239.1        | 88.8                                 | 121.2           | 88.7                       | 5,803.6        | 0.1                                  | 32.6            | 17.8                       | 5,208.5        |                                      |
| Kitui         | -      | 106.6           | 11.7                       | 5,090.2        | -                                    | 94.9            | 47.6                       | 3,821.3        | -                                    | 47.4            | 40.5                       | 3,397.1        |                                      |
| Machakos      | 7.5    | 77.2            | 19.1                       | 6,123.2        | 121.3                                | 179.4           | 70.9                       | 7,406.1        | -                                    | 108.5           | 54.1                       | 5,982.7        |                                      |
| Makueni       | -      | 118.1           | 26.1                       | 7,534.5        | 89.4                                 | 181.5           | 101.6                      | 7,123.5        | -                                    | 79.9            | 32.4                       | 6,084.5        |                                      |
| Nyandarua     | -      | 83.5            | 22.4                       | 4,648.1        | 33.9                                 | 95.0            | 10.5                       | 5,573.2        | 71.7                                 | 156.2           | 48.9                       | 6,547.9        |                                      |
| Nyeri         | -      | 138.3           | 37.5                       | 17,065.4       | 412.4                                | 513.2           | 311.8                      | 20,675.5       | 274.9                                | 476.3           | 239.7                      | 31,227.5       |                                      |
| Kirinyaga     | -      | 125.5           | 19.1                       | 9,653.8        | 161.3                                | 267.7           | 188.9                      | 11,580.8       | 198.1                                | 276.9           | 145.0                      | 17,960.9       |                                      |
| Muranga       | -      | 225.8           | 92.6                       | 18,156.8       | 229.6                                | 362.8           | 233.9                      | 18,501.6       | -                                    | 128.9           | 102.1                      | 12,339.7       |                                      |

|                   |              |                |                |                  |                |                |                |                  |                |                |                |                  |
|-------------------|--------------|----------------|----------------|------------------|----------------|----------------|----------------|------------------|----------------|----------------|----------------|------------------|
| Kiambu            | -            | 334.2          | 98.1           | 26,546.8         | 262.2          | 498.4          | 404.6          | 24,579.5         | 275.0          | 368.8          | 238.8          | 35,501.7         |
| Turkana           | -            | 135.9          | 13.7           | 6,948.7          | 30.7           | 153.0          | 43.0           | 6,948.7          | -              | 110.0          | 41.8           | 6,385.4          |
| West Pokot        | -            | 87.7           | 43.9           | 6,605.9          | 36.1           | 80.0           | 56.2           | 3,236.6          | 129.0          | 152.8          | 69.9           | 7,901.0          |
| Samburu           | -            | -              | -              | -                | 51.0           | 51.0           | 49.1           | 2,025.2          | -              | 1.9            | 0.7            | 2,082.6          |
| Trans Nzoia       | -            | 120.4          | 10.8           | 7,003.3          | -              | 109.7          | 2.8            | 1,300.1          | 44.3           | 151.2          | 100.8          | 7,132.3          |
| Uasin Gishu       | -            | 220.5          | 63.0           | 18,715.9         | 287.7          | 445.3          | 298.0          | 21,547.2         | -              | 147.3          | 110.3          | 16,729.2         |
| Elgeyo - Marakwet | -            | 0.7            | 0.7            | 5,198.2          | 231.0          | 231.0          | 142.1          | 10,412.7         | -              | 88.9           | 61.5           | 4,807.0          |
| Nandi             | 32.2         | 180.0          | 42.8           | 7,854.0          | -              | 137.2          | 50.6           | 2,978.1          | -              | 86.6           | 45.7           | 5,799.4          |
| Baringo           | -            | 161.7          | 49.1           | 9,476.3          | 293.4          | 406.0          | 270.6          | 16,253.0         | 20.0           | 155.4          | 53.4           | 17,117.0         |
| Laikipia          | -            | 47.6           | 6.3            | 6,682.1          | 156.1          | 197.4          | 178.6          | 7,268.8          | -              | 18.8           | 17.4           | 2,186.9          |
| Nakuru            | -            | 204.0          | 52.7           | 12,394.6         | -              | 151.3          | 63.3           | 3,090.1          | 140.7          | 228.7          | 118.2          | 10,289.2         |
| Narok             | -            | 111.2          | 35.3           | 5,125.2          | 206.1          | 282.0          | 183.1          | 10,132.9         | -              | 98.9           | 71.2           | 7,779.8          |
| Kajiado           | -            | 112.4          | 68.7           | 7,837.6          | 161.3          | 205.0          | 127.7          | 9,786.0          | -              | 77.3           | 56.8           | 9,175.0          |
| Bomet             | -            | 92.7           | 78.2           | 7,131.7          | 216.9          | 231.4          | 161.7          | 9,885.8          | -              | 69.7           | 25.6           | 6,319.3          |
| Kericho           | -            | 144.7          | 97.6           | 10,299.8         | 132.2          | 179.2          | 141.7          | 8,091.1          | 112.0          | 149.5          | 122.4          | 10,671.0         |
| Kakamega          | -            | 71.1           | 11.2           | 8,404.5          | 128.7          | 188.6          | 155.3          | 7,966.9          | 31.4           | 64.7           | 30.5           | 8,734.5          |
| Vihiga            | -            | 18.9           | 2.5            | 977.6            | 30.1           | 46.5           | 26.5           | 1,932.7          | 80.5           | 100.5          | 46.1           | 4,859.9          |
| Bungoma           | -            | 68.0           | 19.1           | 5,936.2          | 86.1           | 135.0          | 92.6           | 6,110.9          | -              | 42.4           | 24.4           | 4,757.4          |
| Busia             | -            | 8.6            | 7.1            | 2,980.5          | 33.5           | 35.0           | 29.7           | 1,680.3          | 50.0           | 55.3           | 43.1           | 3,202.7          |
| Siaya             | -            | 22.3           | 11.4           | 3,612.5          | -              | 10.9           | 9.8            | 253.3            | -              | 1.1            | 1.1            | 223.2            |
| Kisumu            | 5.4          | 40.0           | 8.0            | 1,726.8          | 111.0          | 143.0          | 77.2           | 5,690.8          | -              | 65.8           | 51.2           | 2,696.7          |
| Homa Bay          | -            | 117.5          | 22.7           | 4,644.9          | 46.3           | 141.0          | 27.1           | 5,051.6          | 18.0           | 131.9          | 15.4           | 5,238.0          |
| Kisii             | -            | 140.4          | 83.0           | 15,145.8         | 80.6           | 138.0          | 16.4           | 6,776.5          | 197.4          | 319.0          | 42.6           | 13,946.7         |
| Migori            | -            | 81.6           | 17.2           | 2,390.0          | 106.6          | 171.0          | 50.0           | 7,185.3          | -              | 121.0          | 83.1           | 6,581.3          |
| Nyamira           | -            | 34.9           | 19.1           | 5,438.4          | 80.2           | 96.0           | 73.3           | 4,319.1          | 89.6           | 112.3          | 57.3           | 8,589.9          |
| Nairobi City      | -            | 0.4            | 0.4            | 921.0            | -              | -              | -              | -                | -              | -              | -              | -                |
| <b>Total</b>      | <b>205.1</b> | <b>4,120.0</b> | <b>1,313.3</b> | <b>313,417.9</b> | <b>4,606.1</b> | <b>7,409.6</b> | <b>4,382.6</b> | <b>316,289.1</b> | <b>2,078.3</b> | <b>5,105.2</b> | <b>2,712.5</b> | <b>355,526.9</b> |

Source: Kenya Rural Roads Authority

\*Provisional

**11.14.** During the year under review, the length of paved International Trunk roads increased to 5.4 thousand kilometres, an increase of 1.9 per cent from 5.3 thousand kilometres recorded in 2020. The length of National Trunk roads and Primary roads under bitumen increased to 5.6 thousand kilometres

and 7.5 thousand kilometres, respectively as at 30th June 2021. The length of paved secondary roads expanded by 16.9 per cent to 1,432 kilometres from 1,225 kilometres in 2020. The total length of roads under bitumen increased to 21.8 thousand kilometres as at 30th June 2021.

**Table 11.11: Kilometres of Roads by Type and Classification as at 30th June, 2017 - 2021**

| Surface Type/<br>Year            | Kilometres             |                |                |                |                |                |               |               |               |               |
|----------------------------------|------------------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|
|                                  | Earth/Gravel (Unpaved) |                |                |                |                | Bitumen(Paved) |               |               |               |               |
| 2017                             | 2018                   | 2019           | 2020           | 2021*          | 2017           | 2018           | 2019          | 2020          | 2021*         |               |
| <b>National Roads</b>            |                        |                |                |                |                |                |               |               |               |               |
| Super Highway<br>(S)             | -                      | -              | -              | -              | -              | 81             | 81            | 81            | 157           | 157           |
| International<br>Trunk Roads (A) | 3,427                  | 3,008          | 2,623          | 2,539          | 3,112          | 4,191          | 4,609         | 4,994         | 5,266         | 5,350         |
| National Trunk<br>Roads (B)      | 7,062                  | 6,743          | 6,260          | 8,798          | 7,625          | 3,789          | 4,109         | 4,592         | 5,565         | 5,632         |
| Primary Roads<br>(C)             | 17,325                 | 17,131         | 15,950         | 15,899         | 15,985         | 4,121          | 4,314         | 5,495         | 6,104         | 7,525         |
| <b>Sub-total</b>                 | <b>27,814</b>          | <b>26,882</b>  | <b>24,833</b>  | <b>27,236</b>  | <b>26,722</b>  | <b>12,181</b>  | <b>13,113</b> | <b>15,162</b> | <b>17,092</b> | <b>18,664</b> |
| <b>County Roads</b>              |                        |                |                |                |                |                |               |               |               |               |
| Secondary<br>Roads (D)           | 9,819                  | 9,424          | 9,224          | 8,551          | 9,150          | 1,305          | 1,699         | 1,899         | 1,225         | 1,432         |
| Minor Roads (E)                  | 12,974                 | 12,843         | 12,643         | 10,539         | 11,523         | 1,074          | 1,205         | 1,405         | 717           | 645           |
| Special Purpose<br>Roads (F)     | 9,186                  | 9,122          | 9,057          | 8,954          | 9,091          | 439            | 504           | 569           | 465           | 365           |
| Unclassified<br>Roads (G)        | 84,625                 | 84,525         | 84,399         | 83,524         | 83,521         | 2,035          | 2,135         | 2,261         | 1,837         | 720           |
| <b>Sub-total</b>                 | <b>116,604</b>         | <b>115,914</b> | <b>115,323</b> | <b>111,567</b> | <b>113,285</b> | <b>4,853</b>   | <b>5,542</b>  | <b>6,133</b>  | <b>4,244</b>  | <b>3,162</b>  |
| <b>Grand Total</b>               | <b>144,418</b>         | <b>142,796</b> | <b>140,156</b> | <b>138,803</b> | <b>140,007</b> | <b>17,034</b>  | <b>18,655</b> | <b>21,295</b> | <b>21,336</b> | <b>21,826</b> |

Source: Kenya Roads Board

\*Provisional

Some roads re-classified to a higher class after construction and upgrading

A superhighway (S) - Highway connecting two or more cities/towns meant to carry safely a large volume of traffic at the highest legal speed of operation.

International Trunk Road (A) - Roads forming strategic routes and corridors, connecting international boundaries at identified immigration entry and exit points and international air or sea ports.

National Trunk Road (B) - Roads forming important national routes, linking national trading or economic hubs, County headquarters and other nationally important centres to each other and to the national capital or to Class A roads.

Primary Road (C) - Roads forming important regional routes, linking County headquarters or other regionally important centers, to each other and to Class A or B roads. Required to collect regional and local traffic and channel it to class A and B roads.

Secondary Road (D) - Roads linking constituency headquarters, Municipal or Town Council Centers and other towns to each other and to higher class roads. Required to collect local traffic from lower class roads and channel it to the higher class roads.

*Minor Road (E) - Major Feeder Roads linking important Constituency centres to each other and meant to carry local traffic and to channel it to class D roads.*

*Special Purpose Roads (F) - Provide direct access to individual or group of properties, and residential areas, or to places of specific social or economic activity, including industrial and commercial areas and government institutions such as National Parks, schools, hospital, prisons and government housing.*

**11.15.** Construction of essential infrastructure projects especially on road networks spurs development and eases traffic congestion. The Nairobi Express Way, Kenya's first major public-private partnership (PPP) project, was 82.0 per cent complete as at 31st December 2021. The Express Way is a 108.4-kilometre lane length with an estimated total construction cost of KSh 72.8 billion. The Nairobi Eastern Bypass, which is being expanded/upgraded to a

dual carriage, and the Makupa Causeway Bridge construction, were among the ongoing PPP projects at an estimated cost of KSh 12.5 billion and KSh 4.5 billion respectively. As shown in Table 11.12, there were other major roadworks in progress for the financial year 2021/22. An estimated KSh 259.5 billion would be utilized on roadworks with a total length of 2,299.0 kilometres.

**Table 11.12: Selected Major Road Works in Progress as at December 2021**

| Project Name   | Length (Km)     | % Completion | Amount (KSh Million) |
|--|-----------------|--------------|----------------------|
| <b>Roads under Construction</b>  |                 |              |                      |
| Nairobi Expressway   | 108.40          | 82.0         | 72,800.00            |
| Nairobi Western Bypass   | 77.20           | 56.5         | 17,580.85            |
| Capacity enhancement of James Gichuru - Rironi   | 26.00           | 65.8         | 16,366.59            |
| Kenol-Sagana   | 48.00           | 1.5          | 8,491.26             |
| Lokitaung Junction – Kalobeiyei River  | 160.00          | 75.2         | 8,456.32             |
| Kalobeiyei River – Nadapal/Nakodok   | 88.00           | 73.0         | 7,856.05             |
| Mau Mau Road Lot2-Murang'a (Mairi-Kinyona-Mununga-Ichici-Tuthu-Wanjerere-Kagongo-Kairo)                                  | 153.80          | 5.2          | 6,428.04             |
| Mombasa – Kwa Jomvu Rd (A109)  | 13.30           | 94.5         | 6,016.87             |
| Sagana-Marua   | 36.00           | 2.0          | 5,749.46             |
| Mau Mau Road Lot 1B: Kiambu (Kamahindu-Gatamaiyu-Nduriri-Nyanduma-Wangui-Mataara-Gatakaini & other spur roads)           | 112.60          | 14.5         | 4,550.48             |
| Mau Mau Road Lot3: Nyeri (Kairo-Kabebero-Munyange-Gituiga-Ihithe-Miagayuini-Ihururu-Nyarugumu-Njengu & other spur roads) | 109.10          | 14.8         | 4,519.82             |
| Kitale – Endebees - Suam   | 45.00           | 61.0         | 4,474.99             |
| Mau Mau Road Lot 1A: Kiambu-(Gataka- Iria Ini-Kagaa-Matimbei-Kamahindu & Spur roads)                                     | 105.00          | 12.5         | 4,193.17             |
| Mombasa Port Area Road Development Project Package 3   | 6.86            | 75.0         | 4,000.00             |
| Uplands - Githunguri - Ruiru   | 94.00           | 50.3         | 3,988.06             |
| Kinyona - Gatura - Njabini   | 68.80           | 12.0         | 3,179.05             |
| Kisumu Boys - Mamboleo   | 18.40           | 91.0         | 2,837.95             |
| Posta (Naibor) - Kisima- Maralal   | 65.00           | 64.0         | 2,689.25             |
| Nyaru - Iten   | 128.00          | 88.2         | 2,418.82             |
| Link Road to Lamu Port   | 10.00           | 99.0         | 2,310.90             |
| Thika Bypass   | 17.00           | 82.8         | 2,240.54             |
| Marsabit - Segel   | 23.50           | 5.7          | 2,227.58             |
| Thika - Magumu Road  | 68.00           | 9.5          | 2,066.53             |
| Mau Narok-Kisiriri (B18)   | 68.00           | 87.0         | 1,222.22             |
| Kiogoro - Gesure - Itibo - Masongo Roads   | 19.00           | 96.0         | 1,075.01             |
| Busia – Malaba   | 56.60           | 93.3         | 961.36               |
| <b>Sub total</b>   | <b>1,725.56</b> |              | <b>198,701.16</b>    |
| <b>Dualling</b>  |                 |              |                      |
| Nairobi Eastern Bypass (From Baraka Roundabout to Ruiru/Kamiti Junction)   | 26.80           | 30.0         | 12,494.84            |

**Table 11.12: Selected Major Road Works in Progress as at December 2021 (Continued)**

| Project Name  | Length (Km)     | % Com-pletion | Amount (KSh Million) |
|---|-----------------|---------------|----------------------|
| Dualling of Athi River - Machakos Turnoff   | 40.00           | 74.2          | 5,288.55             |
| Dualling of Magongo (A109L) Road: Phase II  | 5.80            | 77.9          | 2,420.33             |
| Ngong Road (Dagoretti Corner - Karen Roundabout Section)                              | 11.00           | 91.0          | 2,382.34             |
| <b>Sub total</b>  | <b>83.60</b>    |               | <b>22,586.05</b>     |
| <b>Upgrading</b>  |                 |               |                      |
| Garsen – Lamu – Witu  | 270.00          | 82.0          | 10,868.63            |
| Lokichar-Loichangamatak   | 40.00           | 10.0          | 5,800.82             |
| Mlolongo - Athi River Joska Road  | 15.00           | 36.0          | 2,193.75             |
| Naivasha - Njabini Road   | 64.00           | 21.4          | 1,799.96             |
| Mombasa Road(Devki)- Kinanie Park/Kinanie Leather Park Machakos County                | 25.00           | 24.0          | 1,785.78             |
| Roads within East Africa Portland Housing Scheme in Machakos County                   | 25.00           | 30.0          | 1,532.89             |
| Roads in Meru County Headquarters   | 13.00           | 23.0          | 1,043.33             |
| <b>Sub total</b>  | <b>452.00</b>   |               | <b>25,025.15</b>     |
| <b>Rehabilitation</b>   |                 |               |                      |
| Thika Town roads  | 26.73           | 12.9          | 1,606.45             |
| Nairobi Eastlands Roads (Phase II)  | 10.20           | 97.8          | 1,388.75             |
| Nairobi Roads Lot 1 (Part of Missing Link 12)   | 1.00            | 60.0          | 1,159.26             |
| <b>Sub total</b>  | <b>37.93</b>    |               | <b>4,154.46</b>      |
| <b>Bridges &amp; Interchanges</b>   |                 |               |                      |
| Makupa Causeway Bridge  | -               | 8.1           | 4,511.07             |
| Valley Road/Ngong Road/Nyerere Road Interchange and Upperhill Overpasses <sup>1</sup> | -               | 16.0          | 2,987.51             |
| Construction of Interchanges at Kericho Jn (B1/C23) and Ahero Jn (A1/B1)              | -               | 59.9          | 1,388.32             |
| Ngong Road Footbridges <sup>2</sup>   | -               | 33.0          | 190.56               |
| <b>Sub total</b>  | <b>-</b>        |               | <b>9,077.46</b>      |
| <b>Grand Total</b>  | <b>2,299.09</b> |               | <b>259,544.28</b>    |

Source: Kenya National Highways Authority and Kenya Urban Roads Authority

<sup>1</sup>6 in Number

<sup>2</sup>3 in Number

## Railway Statistics

**11.16.** The Status of Railway construction projects as at 31st December 2021 is shown in Table 11.13. The Kenya Railways rehabilitated the Meter Gauge Railway (MGR) lines with a view to resume operations on the existing branch lines. In 2021, rehabilitation of the Longonot – Malaba line was completed with

a rail length of 465 kilometres. Other lines that were in progress were the Nakuru – Kisumu line, Gilgil – Nyahururu line, Kisumu – Butere and the Leseru – Kitale line. The construction of the Naivasha ICD - Longonot MGR link, which is 23.4 kilometres, was completed in the same period.

**Table 11.13: The Status of Construction and Rehabilitation of MGRs as at 31st December 2021**

| Routes                             | Length in Kilometres | Percentage Completion |
|------------------------------------|----------------------|-----------------------|
| <b>Construction Projects</b>       |                      |                       |
| ICD Naivasha – MGR Longonot Link   | 23.4                 | 100.0                 |
| <b>MGR Rehabilitation Projects</b> |                      |                       |
| Nairobi - Commuter Rail            | 139.2                | 70.0                  |
| Longonot – Malaba Line             | 465                  | 100.0                 |
| Nakuru – Kisumu                    | 216.7                | 85.0                  |
| Gilgil - Nyahururu                 | 77.8                 | 56.1                  |
| Kisumu - Butere                    | 69.05                | 67.0                  |
| Leseru - Kitale                    | 65                   | 75.0                  |

Source: Kenya Railways

# Tourism Sector

## Overview

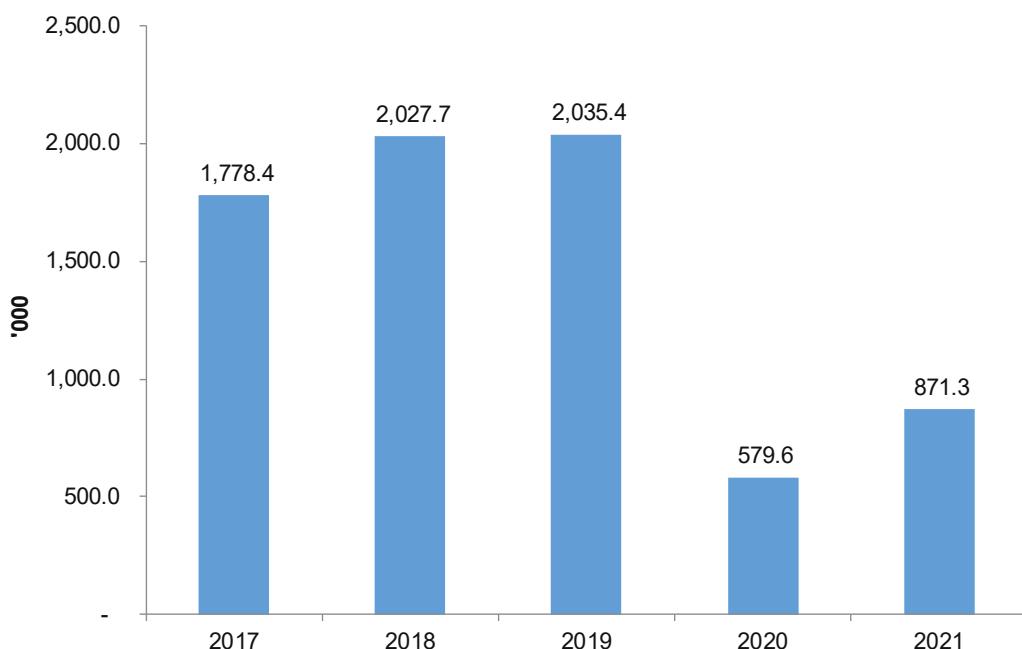
The tourism sector registered a recovery in 2021 as manifested in increased domestic tourism and international visitor arrivals. This was attributed to the easing of travel restrictions and rising rates of COVID-19 vaccination. International arrivals expanded by 50.3 per cent to 871.3 thousand in 2021, supported by the reopening of Kenya's source markets and relaxation of travel restrictions.

**12.2.** Overall, hotel bed-nights occupancy expanded by 45.1 per cent to 5.5 million in 2021. Hotel bed-nights occupancy by residents of Kenya rose by 49.2 per cent to 3.8 million and accounted for 69.4 per cent of the total hotel bed nights occupancy in 2021. This indicates that the tourism sector was majorly supported by domestic tourism in the review period. The number of international conferences held increased from 28 in 2020 to 292 in 2021 while local conferences held increased from 1,176 in 2020 to 8,117 in 2021. The number of visitors to national parks and game reserves increased by 50.0 per cent from 1.0 million in 2020 to 1.5 million in 2021. Similarly, the number of visitors to museums, snake parks and historical sites more than doubled to 403.7 thousand during the same period.

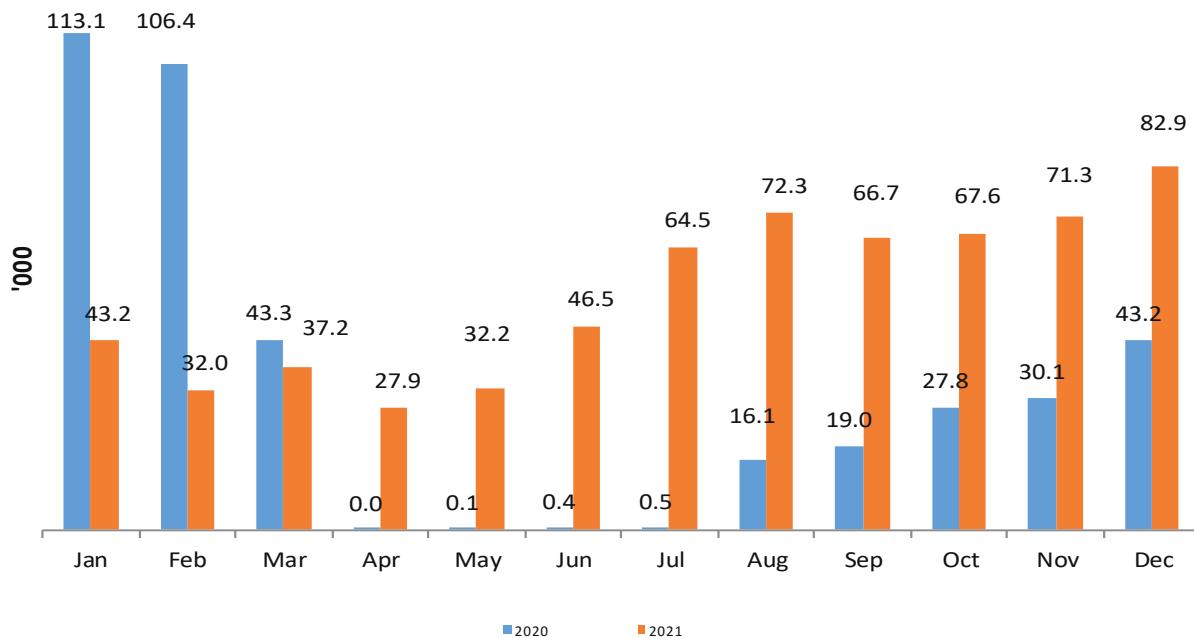
### Visitor Arrivals

**12.3.** The trend in international visitor arrivals from 2017 to 2021 is shown in Figure 12.1. During the review period, international visitor arrivals grew by 50.3 per cent from 579.6 thousand in 2020 to 871.3 thousand in 2021.

**Figure 12.1: International Visitor Arrivals, 2017-2021**

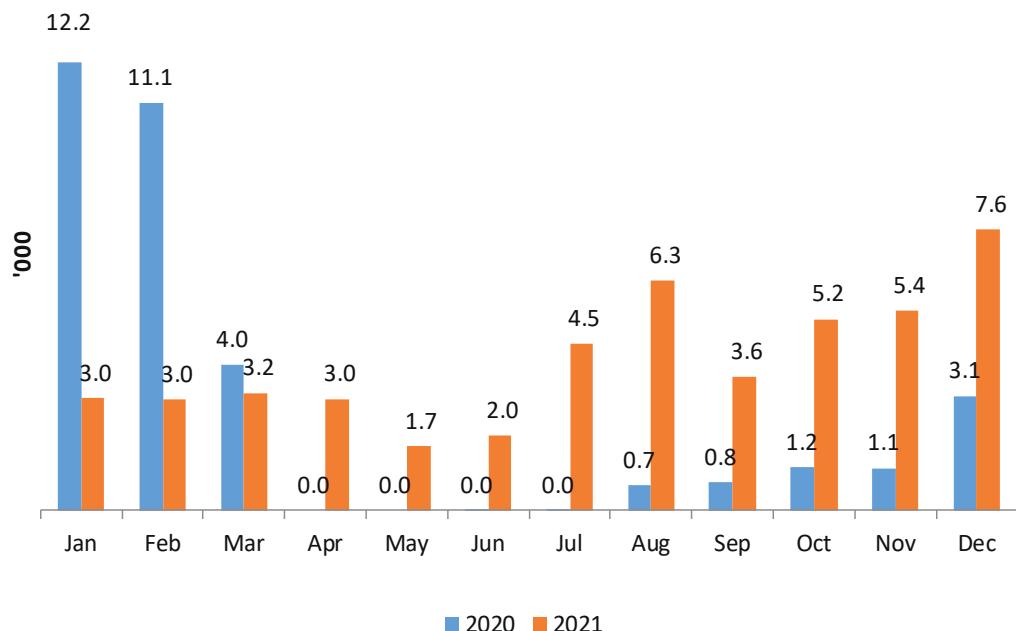


**12.4.** Figure 12.2(a) shows the monthly international visitor arrivals through Jomo Kenyatta International Airport (JKIA). In 2021, the lowest international visitor arrivals were recorded in April while the highest were recorded in December. Other notable international visitor arrivals were registered in August and November, 2021 at 72.3 thousand and 71.3 thousand, respectively.

**Figure 12.2(a): Monthly International Visitor Arrivals through JKIA, 2020-2021**

**12.5.** Figure 12.2(b) shows the monthly international visitor arrivals through Moi International Airport (MIA). The lowest international visitor arrivals were recorded in May at 1.7 thousand while the highest were in December, 2021 at 7.6 thousand. Notable international visitor arrivals were also registered in August, 2021.

**Figure 12.2 (b) Monthly International Visitor Arrivals through MIA, 2020-2021**



**12.6.** Figure 12.2 (c) shows the number of international visitor arrivals through MIA, JKIA and other border points for the period 2017 to 2021. Visitor arrivals through MIA and JKIA increased by 59.6 per cent to 692.9 thousand while those through other border points increased by 22.6 per cent to 178.4 thousand in 2021.

**Figure 12.2(c): International Visitor Arrivals through MIA and JKIA, and Other Border Points, 2017-2021**



**12.7.** International visitor arrivals by purpose of visit and quarter from 2017 to 2021 is shown in Table 12.1. International visitor arrivals during the first quarter registered a decline of more than half from 389.6 thousand in 2020 to 157.8 thousand in 2021. International visitor arrivals in the fourth quarter more than doubled from 140.7 thousand in 2020 to 299.3 thousand, the highest in 2021. The lowest visitor arrivals were recorded in the second quarter at 148.2 thousand during the same period.

**12.8.** Annual international visitor arrivals increased by 50.3 per cent from 579.6 thousand in 2020 to 871.3 thousand in 2021. Visitors on holiday more than doubled to 300.3 thousand, accounting for 34.5 per cent of all international arrivals in 2021. Similarly, visitors on transit and those on business increased by 29.0 per cent and 34.2 per cent to 48.0 thousand and 229.7 thousand respectively, in 2021. Figure 12.2 (d) presents the comparison of visitor arrivals by purpose of visit for 2020 and 2021.

**Table 12.1: International Visitor Arrivals by Purpose of Visit and Quarter, 2017-2021**

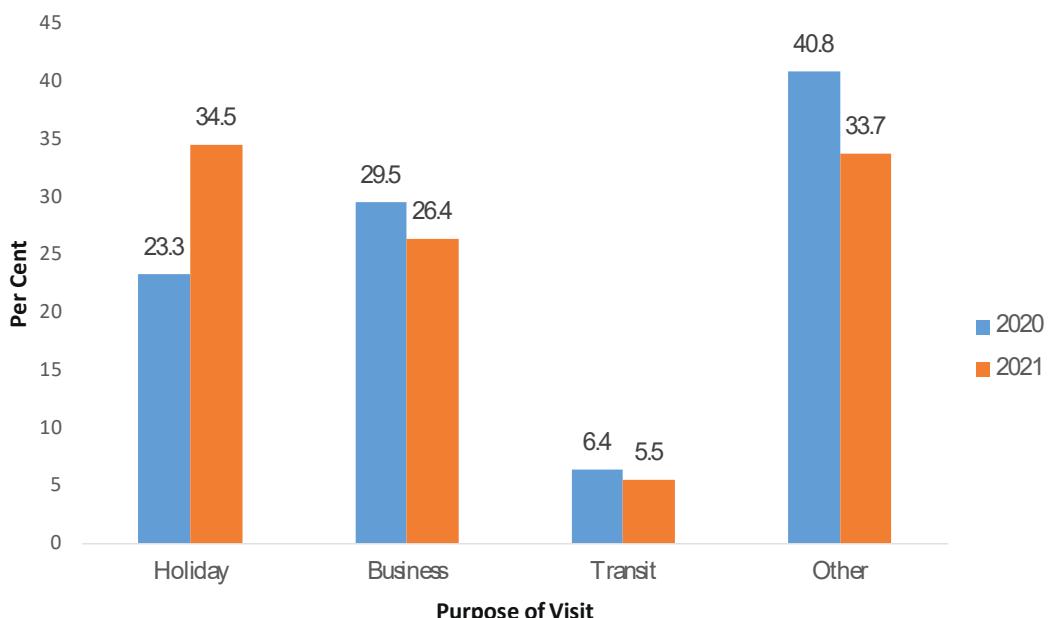
| Quarter         | Purpose            | 2017           | 2018           | 2019           | 2020         | 2021*        |
|-----------------|--------------------|----------------|----------------|----------------|--------------|--------------|
| 1 <sup>st</sup> | Holiday            | 306.1          | 350.4          | 317.5          | 90.7         | 46.1         |
|                 | Business           | 70.6           | 62.1           | 67.7           | 115.0        | 47.7         |
|                 | Transit            | 25.5           | 26.0           | 33.8           | 25.0         | 8.4          |
|                 | Other <sup>1</sup> | 21.4           | 35.1           | 60.1           | 159.0        | 55.8         |
|                 | <b>TOTAL</b>       | <b>423.7</b>   | <b>473.5</b>   | <b>479.1</b>   | <b>389.6</b> | <b>157.8</b> |
| 2 <sup>nd</sup> | Holiday            | 280.8          | 315.2          | 279.2          | 0.3          | 42.1         |
|                 | Business           | 64.9           | 56.6           | 62.3           | 0.4          | 43.9         |
|                 | Transit            | 43.8           | 24.8           | 40.4           | 0.1          | 8.5          |
|                 | Other <sup>1</sup> | 33.3           | 53.0           | 79.3           | 0.5          | 53.7         |
|                 | <b>TOTAL ..</b>    | <b>422.7</b>   | <b>449.6</b>   | <b>461.2</b>   | <b>1.2</b>   | <b>148.2</b> |
| 3 <sup>rd</sup> | Holiday            | 335.0          | 446.1          | 361.8          | 11.2         | 105.7        |
|                 | Business           | 63.1           | 80.6           | 83.5           | 14.2         | 60.6         |
|                 | Transit            | 18.7           | 22.6           | 53.3           | 3.1          | 10.6         |
|                 | Other <sup>1</sup> | 77.7           | 50.4           | 98.0           | 19.6         | 89.0         |
|                 | <b>TOTAL ..</b>    | <b>494.4</b>   | <b>599.7</b>   | <b>596.6</b>   | <b>48.1</b>  | <b>266.0</b> |
| 4 <sup>th</sup> | Holiday            | 296.0          | 386.1          | 329.8          | 32.7         | 106.4        |
|                 | Business           | 46.1           | 57.9           | 60.3           | 41.5         | 77.5         |
|                 | Transit            | 16.9           | 23.6           | 45.4           | 9.0          | 20.5         |
|                 | Other <sup>1</sup> | 78.8           | 37.3           | 63.0           | 57.4         | 94.9         |
|                 | <b>TOTAL</b>       | <b>437.6</b>   | <b>504.9</b>   | <b>498.5</b>   | <b>140.7</b> | <b>299.3</b> |
| Annual          | Holiday            | 1,217.8        | 1,497.7        | 1,288.4        | 134.9        | 300.3        |
|                 | Business           | 244.7          | 257.2          | 273.8          | 171.1        | 229.7        |
|                 | Transit            | 104.8          | 97.1           | 172.9          | 37.2         | 48.0         |
|                 | Other <sup>1</sup> | 211.2          | 175.8          | 300.4          | 236.5        | 293.4        |
|                 | <b>TOTAL</b>       | <b>1,778.4</b> | <b>2,027.7</b> | <b>2,035.4</b> | <b>579.6</b> | <b>871.3</b> |

Source: Directorate of Immigration Services

\*Provisional

<sup>1</sup>"Other" category include: Medical, Religious Mission/Volunteer, Sports, Health, Study, Visiting Friends and Relatives, Others/Not Stated.

**Figure 12.2(d): International Visitor Arrivals by Purpose of Visit, 2020 - 2021**



### Visitor Departures

**12.9.** International visitor departures by purpose of visit and quarter from 2017 to 2021 is shown in Table 12.2. The number of departing visitors rose by 40.1 per cent to 791.7 thousand in 2021. International visitor departures in the first quarter declined by more than half from 392.7 thousand in 2020 to 142.2 thousand in 2021. International visitor departures

in the fourth quarter more than doubled from 118.0 thousand in 2020 to 268.1 thousand, the highest in 2021. The second quarter of 2021 recorded the lowest international visitor departures at 138.5 thousand. Departing visitors on business, holiday and transit accounted for 42.5, 28.2 and 6.1 per cent of total international departures in 2021, respectively.

**Table 12.2: International Visitor Departures by Purpose of Visit and Quarter, 2017-2021**

| Quarter         | Purpose            | 2017           | 2018           | 2019           | 2020         | 2021*        |
|-----------------|--------------------|----------------|----------------|----------------|--------------|--------------|
| 1 <sup>st</sup> | Holiday            | 259.6          | 314.4          | 298.8          | 45.5         | 35.1         |
|                 | Business           | 63.6           | 55.7           | 65.6           | 80.6         | 62.9         |
|                 | Transit            | 29.7           | 23.3           | 28.3           | 11.0         | 8.1          |
|                 | Other <sup>1</sup> | 44.7           | 31.5           | 50.6           | 255.6        | 36.2         |
|                 | Total              | 397.6          | 424.9          | 443.3          | 392.7        | 142.2        |
| 2 <sup>nd</sup> | Holiday            | 261.3          | 285.2          | 257.2          | 0.8          | 31.5         |
|                 | Business           | 58.1           | 51.2           | 59.2           | 1.4          | 67.4         |
|                 | Transit            | 29.2           | 22.5           | 33.5           | 0.2          | 6.7          |
|                 | Other <sup>1</sup> | 41.4           | 48.0           | 66.7           | 4.5          | 32.8         |
|                 | Total              | 390.1          | 406.9          | 416.6          | 6.9          | 138.5        |
| 3 <sup>rd</sup> | Holiday            | 297.0          | 424.2          | 352.0          | 5.5          | 82.2         |
|                 | Business           | 70.3           | 76.6           | 83.1           | 9.7          | 90.2         |
|                 | Transit            | 31.6           | 21.5           | 48.1           | 1.3          | 10.3         |
|                 | Other <sup>1</sup> | 68.5           | 48.0           | 89.0           | 30.9         | 60.1         |
|                 | Total              | 467.4          | 570.3          | 572.2          | 47.4         | 242.9        |
| 4 <sup>th</sup> | Holiday            | 273.2          | 347.6          | 318.2          | 13.7         | 66.2         |
|                 | Business           | 54.4           | 52.2           | 59.4           | 24.2         | 118.5        |
|                 | Transit            | 25.4           | 21.3           | 39.4           | 3.3          | 15.2         |
|                 | Other <sup>1</sup> | 35.3           | 33.6           | 48.9           | 76.8         | 68.3         |
|                 | Total              | 388.2          | 454.7          | 465.9          | 118.0        | 268.1        |
| Annual          | Holiday            | 1,091.1        | 1,371.5        | 1,226.3        | 65.5         | 223.4        |
|                 | Business           | 246.4          | 235.7          | 267.3          | 115.9        | 336.3        |
|                 | Transit            | 115.8          | 88.6           | 149.3          | 15.8         | 48.0         |
|                 | Other <sup>1</sup> | 190.0          | 161.0          | 255.1          | 367.8        | 184.1        |
|                 | <b>Total</b>       | <b>1,643.3</b> | <b>1,856.8</b> | <b>1,898.0</b> | <b>565.0</b> | <b>791.7</b> |

**Source:** Directorate of Immigration Services

\*Provisional

<sup>1</sup>"Others" category include: Medical, Religious Mission/Volunteer, Sports, Health, Study, Visiting Friends and Relatives, Others/Not Stated.

**12.10.** Table 12.3 presents the number of departing visitors by country of residence and by purpose of visit. Residents of United Kingdom, Germany and France jointly accounted for 47.4 per cent of all departing residents of Europe in 2021. Departing residents of North America recorded the highest growth from 29.0 thousand in 2020 to 108.3 thousand in 2021.

**Table 12.3: Departing Visitors by Country of Residence and Purpose of Visit, 2019-2021**

| Country of Residence      | Holiday        |             |              | Business     |              |              | Transit      |             |             | Total <sup>1</sup> |              |              | '000 |
|---------------------------|----------------|-------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------------|--------------|--------------|------|
|                           | 2019           | 2020        | 2021*        | 2019         | 2020         | 2021*        | 2019         | 2020        | 2021*       | 2019               | 2020         | 2021*        |      |
| Germany                   | 46.1           | 2.8         | 7.1          | 10.1         | 4.9          | 10.6         | 5.6          | 0.7         | 1.5         | 61.8               | 8.4          | 19.2         |      |
| United Kingdom            | 116.3          | 6.3         | 14.1         | 25.4         | 11.0         | 21.3         | 14.2         | 1.5         | 3.0         | 155.8              | 18.8         | 38.5         |      |
| Switzerland               | 9.0            | 0.6         | 1.8          | 2.0          | 1.0          | 2.7          | 1.1          | 0.1         | 0.4         | 12.0               | 1.8          | 4.8          |      |
| Italy                     | 32.3           | 2.1         | 3.0          | 7.0          | 3.8          | 4.5          | 3.9          | 0.5         | 0.6         | 43.3               | 6.4          | 8.2          |      |
| France                    | 34.3           | 2.0         | 5.1          | 7.5          | 3.5          | 7.7          | 4.2          | 0.5         | 1.1         | 46.0               | 5.9          | 13.8         |      |
| Scandinavia               | 35.7           | 2.6         | 5.6          | 7.8          | 4.6          | 8.4          | 4.3          | 0.6         | 1.2         | 47.8               | 7.8          | 15.2         |      |
| Other Europe              | 113.4          | 5.1         | 18.8         | 24.7         | 9.1          | 28.3         | 13.8         | 1.2         | 4.0         | 152.0              | 15.5         | 51.2         |      |
| TOTAL EUROPE              | 387.1          | 21.4        | 55.5         | 84.4         | 37.9         | 83.5         | 47.1         | 5.2         | 11.9        | 518.6              | 64.5         | 150.9        |      |
| USA                       | 156.2          | 8.1         | 36.2         | 34.0         | 14.4         | 54.5         | 19.0         | 2.0         | 7.8         | 209.2              | 24.5         | 98.5         |      |
| Canada                    | 26.2           | 1.5         | 3.6          | 5.7          | 2.7          | 5.4          | 3.2          | 0.4         | 0.8         | 35.1               | 4.5          | 9.8          |      |
| TOTAL NORTH AMERICA       | 182.3          | 9.6         | 39.8         | 39.8         | 17.0         | 59.9         | 22.2         | 2.3         | 8.5         | 244.3              | 29.0         | 108.3        |      |
| Uganda                    | 96.7           | 5.5         | 18.0         | 21.1         | 9.8          | 27.1         | 11.8         | 1.3         | 3.9         | 129.5              | 16.6         | 49.0         |      |
| Tanzania                  | 96.7           | 4.8         | 17.1         | 21.1         | 8.5          | 25.8         | 11.8         | 1.2         | 3.7         | 129.6              | 14.5         | 46.6         |      |
| "Burundi                  | 16.6           | 1.0         | 3.1          | 3.6          | 1.7          | 4.7          | 2.0          | 0.2         | 0.7         | 22.3               | 2.9          | 8.5          |      |
| "Rwanda                   | 24.2           | 1.9         | 6.7          | 5.3          | 3.3          | 10.1         | 3.0          | 0.5         | 1.4         | 32.5               | 5.7          | 18.3         |      |
| South Sudan               | 14.2           | 1.1         | 4.7          | 3.1          | 2.0          | 7.0          | 1.7          | 0.3         | 1.0         | 19.1               | 3.4          | 12.7         |      |
| Other Africa              | 190.4          | 10.3        | 41.9         | 41.5         | 18.2         | 63.0         | 23.2         | 2.5         | 9.0         | 255.0              | 31.0         | 113.9        |      |
| TOTAL AFRICA              | 438.8          | 24.7        | 91.6         | 95.7         | 43.6         | 137.8        | 53.4         | 6.0         | 19.7        | 587.9              | 74.2         | 249.1        |      |
| India                     | 76.6           | 3.4         | 11.8         | 16.7         | 6.0          | 17.7         | 9.3          | 0.8         | 2.5         | 102.6              | 10.1         | 32.0         |      |
| Japan                     | 8.8            | 0.4         | 0.5          | 1.9          | 0.8          | 0.8          | 1.1          | 0.1         | 0.1         | 11.7               | 1.3          | 1.5          |      |
| Israel                    | 3.2            | 0.2         | 0.7          | 0.7          | 0.3          | 1.0          | 0.4          | 0.0         | 0.1         | 4.4                | 0.5          | 1.9          |      |
| Other Asia                | 93.5           | 4.4         | 20.6         | 20.4         | 7.8          | 31.0         | 11.4         | 1.1         | 4.4         | 125.3              | 13.2         | 56.1         |      |
| TOTAL ASIA                | 182.2          | 8.4         | 33.6         | 39.7         | 14.8         | 50.6         | 22.2         | 2.0         | 7.2         | 244.1              | 25.2         | 91.4         |      |
| Australia and New Zealand | 20.7           | 0.9         | 1.0          | 4.5          | 1.5          | 1.5          | 2.5          | 0.2         | 0.2         | 27.7               | 2.6          | 2.7          |      |
| All Other Countries       | 15.1           | 0.6         | 1.9          | 3.3          | 1.1          | 2.9          | 1.8          | 0.1         | 0.4         | 20.3               | 1.8          | 5.2          |      |
| <b>TOTAL</b>              | <b>1,226.3</b> | <b>65.5</b> | <b>223.3</b> | <b>267.3</b> | <b>115.8</b> | <b>336.2</b> | <b>149.3</b> | <b>15.8</b> | <b>47.9</b> | <b>1,642.9</b>     | <b>197.2</b> | <b>607.5</b> |      |

Source: Directorate of Immigration Services

\*Provisional

<sup>1</sup>Excludes visitors whose purpose of visit is categorized as "Other"

**12.11.** Table 12.4 presents the number of visitor-days stayed by purpose of visit and average length of stay. The total number of days stayed by all categories of departing visitors more than doubled from 4,663.2 thousand in 2020 to 9,983.5 thousand in 2021. The average length of stay increased from 9 days in 2020 to 10.5 days in 2021.

**Table 12.4: Number of Visitor-Days Stayed by Purpose of Visit<sup>1</sup>, 2017-2021**

| Purpose                        | 2017            | 2018            | 2019            | 2020           | 2021*          |
|--------------------------------|-----------------|-----------------|-----------------|----------------|----------------|
| Holiday                        | 15,321.0        | 16,258.0        | 16,064.5        | 2,023.0        | 5,486.3        |
| Business                       | 3,277.0         | 3,135.0         | 3,501.6         | 2,565.9        | 4,387.3        |
| Transit.                       | 290.0           | 222.0           | 370.7           | 74.3           | 109.9          |
| <b>Total</b>                   | <b>18,888.0</b> | <b>19,615.0</b> | <b>19,936.9</b> | <b>4,663.2</b> | <b>9,983.5</b> |
| Average length of stay in days | 13.0            | 11.6            | 12.1            | 9.0            | 10.5           |

\*Provisional

<sup>1</sup>Excludes visitors whose purpose of visit is categorized as “Other”

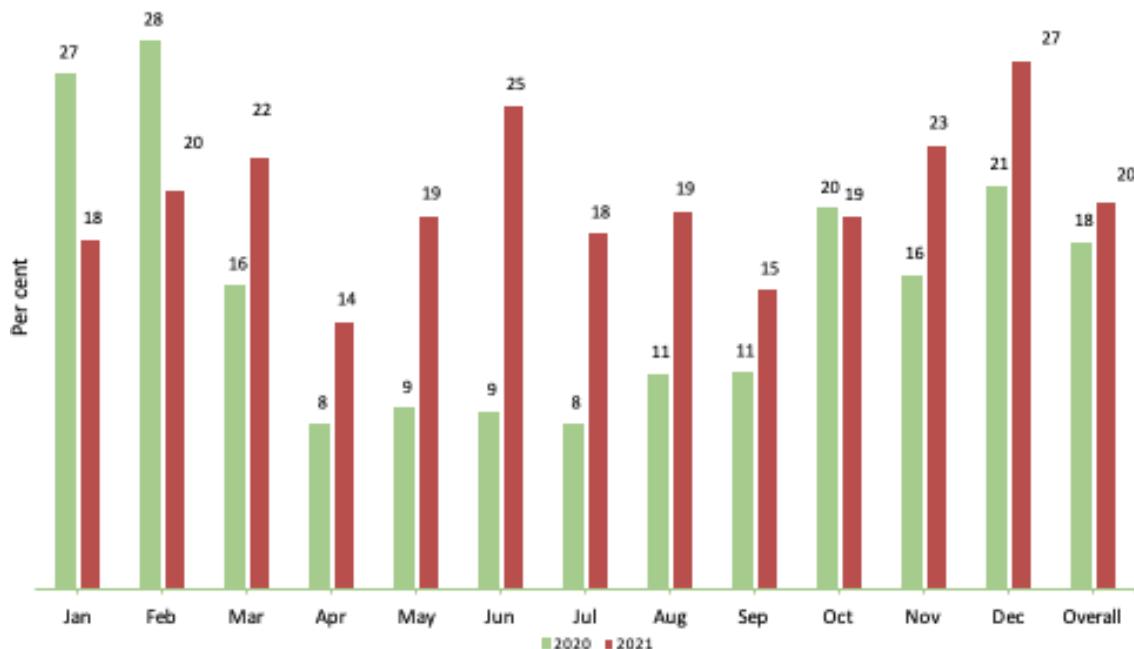
Number of visitor days stayed means number of days visitor stays in the country

PISCES system captures date when a person enters and leaves the country thereby giving the length of stay

### Hotel Bed Occupancy

**12.12.** Figure 12.3 illustrates monthly hotel bed occupancy rates for 2020 and 2021. The overall rate of bed occupancy went up from 18 per cent in 2020 to 20 per cent in 2021. In 2021, hotel bed occupancy was highest in December at 27 per cent followed by June at 25 per cent. The World Rally Championship

(WRC) held in the month of June 2021 attracted participants from all over the world thereby contributing to increased bed occupancy during this particular month. In 2021, the month of April registered the lowest bed occupancy rate at 14 per cent.

**Figure 12.3: Monthly Hotel Bed Occupancy Rates, 2020-2021**

**12.13.** Table 12.5 presents the bed-nights occupancy in hotels, lodges and other rooming houses from 2017 to 2021. Overall, the bed-nights occupancy increased by 45.1 per cent from 3,803.0 thousand in 2020 to 5,517.0 thousand in 2021. Hotel bed-nights occupancy by residents of Kenya rose by 49.2 per cent from 2,567.0 thousand in 2020 to 3,829.9 thousand in 2021. This accounted for 69.4 per cent of the total hotel bed nights occupancy in 2021, an indication that the tourism sector was

majorly supported by domestic tourism. Bed-nights occupancy by nationals from Asia more than doubled from 108.7 thousand in 2020 to 228.7 thousand in 2021. However, hotel bed-nights occupancy by nationals from Europe declined by 21.9 per cent from 719.0 thousand in 2020 to 561.7 thousand in 2021. The number of hotel bed-nights capacity grew by 33.7 per cent from 21,326.1 thousand in 2020 to 28,516.5 thousand in 2021.

**Table 12.5: Hotel Bed-Nights Occupancy by Country of Residence, 2017-2021**

| Country of Residence             | 2017            | 2018            | 2019            | 2020            | 2021*           |
|----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Domestic Tourism                 |                 |                 |                 |                 |                 |
| Kenya Residents                  | 3,645.1         | 4,559.8         | 4,047.3         | 2,567.0         | 3,829.9         |
| International Tourism            |                 |                 |                 |                 |                 |
| Permanent Occupants <sup>1</sup> | 127.5           | 44.7            | 99.0            | 30.1            | 158.5           |
| Germany                          | 762.7           | 934.2           | 1,132.6         | 182.7           | 77.0            |
| Switzerland                      | 78.3            | 85.3            | 109.4           | 20.4            | 45.8            |
| United Kingdom                   | 258.6           | 285.6           | 341.3           | 81.1            | 91.0            |
| Italy                            | 91.6            | 103.1           | 184.6           | 117.4           | 24.0            |
| France                           | 97.1            | 193.3           | 166.7           | 56.5            | 55.0            |
| Scandinavia                      | 80.1            | 109.6           | 101.7           | 41.0            | 39.7            |
| Other Europe                     | 395.6           | 566.7           | 639.0           | 219.7           | 229.3           |
| EUROPE                           | 1,764.1         | 2,277.7         | 2,675.4         | 719.0           | 561.7           |
| Uganda                           | 76.8            | 81.1            | 105.8           | 32.7            | 55.9            |
| Tanzania                         | 51.0            | 58.9            | 77.5            | 23.6            | 32.4            |
| East and Central Africa          | 110.7           | 133.4           | 171.0           | 35.7            | 62.1            |
| West Africa                      | 67.0            | 74.7            | 84.0            | 18.8            | 49.2            |
| North Africa                     | 40.3            | 28.4            | 35.8            | 10.7            | 29.5            |
| South Africa                     | 65.5            | 74.9            | 92.0            | 17.5            | 60.8            |
| Other Africa                     | 34.6            | 54.0            | 41.0            | 10.5            | 31.2            |
| AFRICA                           | 445.9           | 505.5           | 607.1           | 149.4           | 321.1           |
| U.S.A                            | 287.3           | 346.0           | 426.9           | 122.3           | 221.5           |
| Canada                           | 54.6            | 69.3            | 81.2            | 21.2            | 26.4            |
| Other America                    | 39.4            | 44.6            | 47.1            | 12.0            | 25.2            |
| AMERICA                          | 381.3           | 459.9           | 555.3           | 155.5           | 273.2           |
| Japan                            | 42.4            | 48.2            | 64.2            | 13.2            | 18.6            |
| India                            | 165.1           | 167.2           | 202.2           | 28.9            | 72.7            |
| Middle East                      | 46.2            | 54.7            | 71.0            | 17.2            | 48.4            |
| China                            | 192.3           | 230.5           | 297.2           | 26.4            | 44.7            |
| Other Asia                       | 45.9            | 58.0            | 77.8            | 23.0            | 44.3            |
| ASIA                             | 491.8           | 558.6           | 712.4           | 108.7           | 228.7           |
| Australia and New Zealand        | 71.1            | 78.2            | 89.9            | 13.4            | 13.1            |
| All Other Countries              | 247.4           | 133.5           | 271.8           | 59.9            | 130.7           |
| <b>Total-Occupied</b>            | <b>7,174.2</b>  | <b>8,617.9</b>  | <b>9,058.2</b>  | <b>3,803.0</b>  | <b>5,517.0</b>  |
| <b>Total-Available</b>           | <b>22,987.1</b> | <b>26,500.6</b> | <b>26,835.7</b> | <b>21,326.1</b> | <b>28,516.5</b> |
| <b>Occupancy rate %</b>          | <b>31.2</b>     | <b>32.5</b>     | <b>33.8</b>     | <b>17.8</b>     | <b>19.3</b>     |

<sup>\*</sup>Provisional<sup>1</sup>Persons staying one month or more in one hotel, including some block bookings for air crew

**12.14.** Hotel bed-nights occupancy by zone for the period 2017 to 2021 is presented in Table 12.6. The coastal beach remained as the most preferred destination by tourists. Hotel bed-nights occupancy in the zone rose by 31.0 per cent to 1,967.8 thousand in 2021. Hotel bed-nights occupancy in Nairobi High Class and Central increased by 75.6 per cent to 1,007.7 thousand and 739.8 thousand, respectively, in 2021. Hotel bed-nights occupancy in Masailand doubled to 362.3 thousand in 2021.

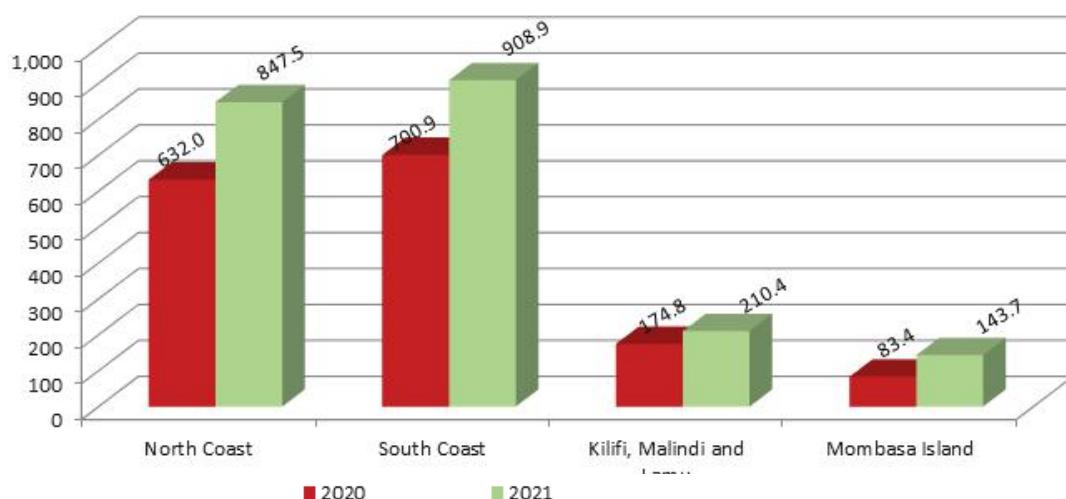
**Table 12.6: Hotel Bed-Nights Occupancy by Zone, 2017-2021**

| Zone                   | 2017            | 2018            | 2019            | 2020            | 2021*           |
|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Coastal Beach          | 2,670.4         | 3,329.0         | 3,491.3         | 1,502.6         | 1,967.8         |
| Coastal Other          | 209.0           | 280.4           | 285.1           | 87.2            | 142.7           |
| Coastal Hinterland     | 173.8           | 107.5           | 112.0           | 110.0           | 62.3            |
| Nairobi High Class     | 1,165.5         | 1,371.7         | 1,430.6         | 573.7           | 1,007.7         |
| Nairobi Other          | 507.3           | 657.0           | 774.3           | 318.3           | 509.7           |
| Central                | 745.5           | 1,128.5         | 947.9           | 421.2           | 739.8           |
| Masailand              | 732.1           | 827.0           | 801.0           | 171.2           | 362.3           |
| Nyanza Basin           | 295.2           | 226.0           | 382.5           | 181.2           | 265.1           |
| Western                | 572.0           | 560.3           | 695.0           | 357.4           | 383.9           |
| Northern               | 103.3           | 130.6           | 138.6           | 80.3            | 75.7            |
| <b>Total-Occupied</b>  | <b>7,174.2</b>  | <b>8,617.9</b>  | <b>9,058.2</b>  | <b>3,803.0</b>  | <b>5,517.0</b>  |
| <b>Total-Available</b> | <b>22,987.1</b> | <b>26,500.6</b> | <b>26,835.7</b> | <b>21,326.1</b> | <b>28,516.5</b> |

\*Provisional

**12.15.** Figure 12.4 illustrates hotel bed-nights occupancy at the Coast excluding the Coastal Hinterland in 2020 and 2021. Overall, there was a notable increase in bed-nights occupancy in the Coast region in 2021. Hotel bed-nights occupancy in North Coast increased by 34.1 per cent to 847.5 thousand while that of South Coast increased by 26.7 per cent to 908.9 thousand in 2021.

**Figure 12.4: Hotel Bed-Nights Occupancy at the Coast, 2020-2021**



**12.16.** Hotel bed-nights occupancy by area and country of residence from 2020 to 2021 is presented in Table 12.7. In 2021, Kenyan residents dominated hotel bed nights' occupancy in all areas accounting for 74.5, 59.7 and 46.2 per cent of bed occupancy in Coast, Game lodges and Nairobi, respectively. The percentage share of hotel bed-nights occupancy in game lodges expanded from 6.6 per cent in 2020 to 7.9 per cent in 2021. Similarly, the percentage share of Nairobi bed-nights occupancy increased from 23.7 in 2020 to 27.5 per cent in 2021.

**Table 12.7: Hotel Bed-Nights Occupancy by Area and Country of Residence, 2020-2021**

| Country of Residence             | Nairobi      |                | Coast          |                | Lodges <sup>2</sup> |              | Others       |                | Total          |                |
|----------------------------------|--------------|----------------|----------------|----------------|---------------------|--------------|--------------|----------------|----------------|----------------|
|                                  | 2020         | 2021*          | 2020           | 2021*          | 2020                | 2021*        | 2020         | 2021*          | 2020           | 2021*          |
| Permanent Occupants <sup>1</sup> | 5.1          | 26.3           | 3.8            | 98.0           | 1.4                 | 2.2          | 19.8         | 32.0           | 30.1           | 158.5          |
| Germany                          | 13.0         | 20.4           | 155.8          | 39.1           | 8.8                 | 11.2         | 5.2          | 6.3            | 182.7          | 77.0           |
| Switzerland                      | 4.2          | 8.6            | 12.9           | 30.5           | 2.0                 | 3.6          | 1.3          | 3.1            | 20.4           | 45.8           |
| United Kingdom                   | 28.8         | 47.8           | 38.8           | 29.8           | 7.5                 | 8.5          | 6.1          | 4.9            | 81.1           | 91.0           |
| Italy                            | 7.9          | 9.6            | 106.4          | 8.8            | 1.9                 | 3.8          | 1.2          | 1.8            | 117.4          | 24.0           |
| France                           | 9.2          | 24.3           | 36.4           | 11.2           | 7.7                 | 13.6         | 3.2          | 5.8            | 56.5           | 55.0           |
| Scandinavia                      | 10.5         | 13.1           | 24.1           | 20.5           | 3.3                 | 3.6          | 3.1          | 2.4            | 41.0           | 39.7           |
| Other Europe                     | 18.2         | 68.0           | 191.5          | 120.4          | 5.6                 | 27.8         | 4.4          | 13.0           | 219.7          | 229.3          |
| Kenya                            | 501.0        | 700.7          | 1,036.3        | 1,619.7        | 164.6               | 261.6        | 865.1        | 1,248.0        | 2,567.0        | 3,829.9        |
| Uganda                           | 18.5         | 36.4           | 4.2            | 10.1           | 0.3                 | 1.7          | 9.6          | 7.7            | 32.7           | 55.9           |
| Tanzania                         | 15.8         | 23.4           | 2.2            | 5.1            | 0.4                 | 0.7          | 5.3          | 3.1            | 23.6           | 32.4           |
| East & Central Africa            | 28.7         | 44.3           | 4.9            | 13.7           | 0.2                 | 0.9          | 1.8          | 3.1            | 35.7           | 62.1           |
| West Africa                      | 15.3         | 36.1           | 2.9            | 10.6           | 0.2                 | 0.9          | 0.4          | 1.7            | 18.8           | 49.2           |
| North Africa                     | 8.0          | 22.6           | 1.9            | 5.0            | 0.5                 | 1.2          | 0.3          | 0.7            | 10.7           | 29.5           |
| South Africa                     | 12.0         | 41.2           | 3.3            | 15.3           | 1.3                 | 2.5          | 0.9          | 1.8            | 17.5           | 60.8           |
| Other Africa                     | 6.2          | 17.4           | 2.2            | 10.6           | 0.9                 | 1.0          | 1.2          | 2.2            | 10.5           | 31.2           |
| USA                              | 70.0         | 112.0          | 12.8           | 40.3           | 24.7                | 50.0         | 14.7         | 19.2           | 122.3          | 221.5          |
| Canada                           | 11.7         | 13.8           | 4.6            | 7.3            | 2.9                 | 3.4          | 1.9          | 2.0            | 21.2           | 26.4           |
| Other America                    | 7.2          | 15.5           | 1.4            | 3.0            | 2.7                 | 4.3          | 0.7          | 2.4            | 12.0           | 25.2           |
| Japan                            | 7.6          | 10.3           | 2.8            | 5.0            | 1.8                 | 1.2          | 0.9          | 2.2            | 13.2           | 18.6           |
| India                            | 12.3         | 33.2           | 8.8            | 18.0           | 4.1                 | 13.3         | 3.6          | 8.2            | 28.9           | 72.7           |
| Middle East                      | 12.6         | 29.4           | 2.5            | 9.2            | 1.3                 | 3.7          | 0.8          | 6.1            | 17.2           | 48.4           |
| China                            | 18.3         | 30.9           | 3.1            | 4.5            | 1.8                 | 4.0          | 3.2          | 5.3            | 26.4           | 44.7           |
| Other Asia                       | 15.3         | 27.8           | 5.9            | 10.8           | 0.6                 | 4.7          | 1.2          | 1.0            | 23.0           | 44.3           |
| Australia & New Zealand          | 7.8          | 6.3            | 2.3            | 1.6            | 2.2                 | 3.7          | 1.1          | 1.4            | 13.4           | 13.1           |
| All Other Countries              | 26.5         | 97.9           | 28.0           | 24.5           | 2.9                 | 5.0          | 2.5          | 3.4            | 59.9           | 130.7          |
| <b>Total</b>                     | <b>892.0</b> | <b>1,517.4</b> | <b>1,699.9</b> | <b>2,172.8</b> | <b>251.5</b>        | <b>438.0</b> | <b>959.7</b> | <b>1,388.8</b> | <b>3,803.0</b> | <b>5,517.0</b> |
| <b>Percentage Share</b>          | <b>23.5</b>  | <b>27.5</b>    | <b>44.7</b>    | <b>39.4</b>    | <b>6.6</b>          | <b>7.9</b>   | <b>25.2</b>  | <b>25.2</b>    | <b>100.0</b>   | <b>100.0</b>   |

\* Provisional

<sup>1</sup>Persons staying one month or more in one hotel, including some block bookings for air crew

<sup>2</sup>Lodges in National Parks and Game Reserves

## National Parks and Game Reserves

**12.17.** Table 12.8 presents details on hotel bed-nights occupancy and type of catering offered in the accommodation facilities located in national parks and game reserves from 2019 to 2021. Bed-nights occupancy in tourist resorts located within the national parks and game reserves expanded by 74.2 per cent from 251.5 thousand in 2020 to 438.0 thousand in 2021.

The number of bed-nights occupancy by non-EAC residents more than doubled from 86.3 thousand in 2020 to 174.1 thousand in 2021. Similarly, bed-nights occupancy by EAC residents grew by 59.7 per cent from 165.2 thousand in 2020 to 263.9 thousand in 2021.

**12.8: Hotel Bed Nights Occupancy in Game Lodges<sup>1</sup>, 2019-2021**

|                | Bed-Nights Occupancy |             |              |               |              |              |              |              |              | '000 |  |
|----------------|----------------------|-------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|------|--|
|                | Non- EAC Residents   |             |              | EAC Residents |              |              | Total        |              |              |      |  |
|                | 2019                 | 2020        | 2021*        | 2019          | 2020         | 2021*        | 2019         | 2020         | 2021*        |      |  |
| Game Reserves  | 154.0                | 42.6        | 46.9         | 95.6          | 98.7         | 143.7        | 249.7        | 141.3        | 190.6        |      |  |
| National Parks | 548.8                | 43.7        | 127.2        | 141.2         | 66.5         | 120.2        | 690.0        | 110.2        | 247.4        |      |  |
| <b>TOTAL</b>   | <b>702.9</b>         | <b>86.3</b> | <b>174.1</b> | <b>236.8</b>  | <b>165.2</b> | <b>263.9</b> | <b>939.7</b> | <b>251.5</b> | <b>438.0</b> |      |  |
| Full Catering  | 554.7                | 80.8        | 145.1        | 156.6         | 111.7        | 158.2        | 711.2        | 192.5        | 303.3        |      |  |
| Self Service   | 148.2                | 5.5         | 29.0         | 80.2          | 53.5         | 105.7        | 228.4        | 59.0         | 134.7        |      |  |

\*Provisional

<sup>1</sup>Lodges in National Parks and Game Reserves

EAC means East African Community comprising of Kenya, Uganda and Tanzania

**12.18.** Table 12.9 shows the number of visitors to national parks and game reserves from 2017 to 2021. The number of visitors to national parks and game reserves rose by 45.0 per cent from 1,037.0 thousand in 2020 to 1,504.0 thousand in 2021. All national parks and game reserves registered growth in the number of visitors during the review period except Samburu national park that registered a decline of 22.2 per cent to 3.5 thousand.

**Table 12.9: Number of Visitors to National Parks and Game Reserves, 2017-2021**

| Park/Reserve             | 2017           | 2018           | 2019           | 2020           | '000<br>2021*  |
|--------------------------|----------------|----------------|----------------|----------------|----------------|
| Nairobi National Park    | 154.5          | 196.7          | 208.2          | 203.6          | 205.9          |
| Nairobi Safari Walk      | 165.9          | 158.7          | 123.3          | 75.9           | 110.0          |
| Nairobi Mini Orphanage   | 367.7          | 414.8          | 385.0          | 120.5          | 194.3          |
| Amboseli                 | 145.5          | 175.8          | 191.7          | 55.1           | 90.9           |
| Tsavo (West)             | 55.3           | 74.1           | 61.3           | 25.0           | 28.6           |
| Tsavo (East)             | 120.5          | 167.0          | 177.9          | 75.1           | 76.2           |
| Aberdare                 | 43.7           | 43.2           | 46.9           | 17.7           | 31.9           |
| Lake Nakuru              | 216.0          | 242.0          | 233.0          | 50.9           | 79.6           |
| Masai Mara               | 172.7          | 291.2          | 286.0          | 71.5           | 119.5          |
| Haller's Park            | 117.9          | 165.8          | 301.6          | 30.6           | 63.9           |
| Malindi Marine           | 31.6           | 29.1           | 28.8           | 12.5           | 18.6           |
| Lake Bogoria             | 67.6           | 74.6           | 72.4           | 2.9            | 12.8           |
| Meru                     | 16.7           | 18.8           | 17.7           | 6.3            | 9.5            |
| Shimba Hills             | 24.0           | 25.6           | 24.2           | 10.6           | 14.1           |
| Mt. Kenya                | 20.2           | 25.9           | 24.8           | 13.5           | 17.8           |
| Samburu                  | 11.1           | 11.4           | 12.7           | 4.5            | 3.5            |
| Kisite/Mpunguti          | 38.4           | 50.3           | 53.3           | 32.5           | 54.0           |
| Mombasa Marine           | 32.2           | 39.8           | 40.8           | 21.1           | 37.4           |
| Watamu Marine            | 43.5           | 67.5           | 72.6           | 43.8           | 51.5           |
| Hell's Gate              | 206.5          | 165.8          | 165.6          | 35.1           | 73.7           |
| Impala Sanctuary(Kisumu) | 200.2          | 309.4          | 306.8          | 59.5           | 117.4          |
| Mt. Longonot             | 88.0           | 60.1           | 60.1           | 24.4           | 35.1           |
| Others <sup>1</sup>      | 45.6           | 61.4           | 80.6           | 44.4           | 57.9           |
| <b>TOTAL</b>             | <b>2,385.2</b> | <b>2,868.9</b> | <b>2,975.2</b> | <b>1,037.0</b> | <b>1,504.0</b> |

Source: Kenya Wildlife Services

\* Provisional

<sup>1</sup>Others include Arabuko Sokoke, Ol-Donyo Sabuk, Marsabit, Saiwa swamp, Sibiloi, Bamburi, Chyulu, Ruma National Park, Mwea National Reserve, Central Island National Park, Kiunga, Mt.Elon, Nasolot, Ndere and Kakamega.

**12.19.** Table 12.10 presents the number of visitors to national parks and game reserves by category from 2019 to 2021. The number of Kenyan adults and children visiting the national parks and game reserves increased in 2021. A similar trend was observed for adult non-resident foreigners and their children in the same period. Overall, most of the visitors to national parks and game reserves were adults who accounted for 71.2 per cent of the total visitors at 1.1 million in 2021.

**Table 12.10: Number of Visitors to National Parks and Game Reserves by Category, 2019-2021**

| Years | Category | Kenyan Citizen | Resident Foreigner | Non-Resident Foreigner | '000 Total |
|-------|----------|----------------|--------------------|------------------------|------------|
| 2019  | Adults   | 912,341        | 123,217            | 741,136                | 1,776.7    |
| 2020  |          | 492,191        | 72,256             | 157,455                | 721.9      |
| 2021* |          | 775,661        | 67,226             | 228,149                | 1,071.0    |
| 2019  | Children | 729,328        | 43,730             | 73,319                 | 846.4      |
| 2020  |          | 204,578        | 19,396             | 14,186                 | 238.2      |
| 2021* |          | 368,808        | 18,615             | 23,047                 | 410.5      |
| 2019  | Students | 272,699        | 79,477             | -                      | 352.2      |
| 2020  |          | -              | 5,480              | -                      | 5.5        |
| 2021* |          | 21,867         | 378                | 192                    | 22.4       |

*Source:* Kenya Wildlife Service

\* Provisional

Note: Non-resident foreigners refers to foreigners expecting to and/or have stayed in Kenya for more than 12 months

### Visitors to Selected Museums, Snake Parks and Historical Sites

**12.20.** The number of visitors to selected museums, snake parks and historical sites from 2017 to 2021 is shown in Table 12.11. Overall, the number of visitors to attraction facilities more than doubled to 403.7 thousand in 2021. Visitors to Kisumu National Museum increased four times to 52.8 thousand while those to Nairobi National Museum increased three

times to 102.6 thousand in 2021. Similarly, visitors to Fort Jesus more than doubled to 101.6 thousand in the review period. The increase in the number of visitors was due to reopening of museums and heritage sites across the country following their closure for 6 months in 2020 due to the COVID-19 pandemic.

**Table 12.11: Number of Visitors to Selected Museums, Snake Parks and Historical Sites, 2017-2021**

| Name of Facility/Site                  | 2017  | 2018  | 2019  | 2020  | 2021* | '000 |
|--|-------|-------|-------|-------|-------|------|
| Nairobi National Museum and snake park | 251.7 | 239.4 | 259.3 | 35.2  | 102.6 |      |
| Nairobi Gallery                        | ..    | 5.7   | 5.9   | 2.2   | 4.3   |      |
| Fort Jesus                             | 130.5 | 229.2 | 195.7 | 43.4  | 101.6 |      |
| Kisumu Museum                          | 128.1 | 184.6 | 172.7 | 13.4  | 52.8  |      |
| Kitale Museum                          | 62.8  | 66.6  | 59.6  | 11.1  | 23.3  |      |
| Gede Ruins                             | 62.6  | 89.0  | 92.4  | 12.4  | 33.6  |      |
| Meru                                   | 16.9  | 21.1  | 19.2  | 2.4   | 7.4   |      |
| Lamu                                   | 2.9   | 3.7   | 3.9   | 3.1   | 3.3   |      |
| Jumba la Mtwana                        | 7.3   | 9.8   | 11.3  | 4.9   | 8.6   |      |
| Olorgessaille                          | 2.0   | 3.3   | 12.6  | 1.1   | 1.6   |      |
| Kariandusi                             | 13.9  | 22.2  | 23.8  | 1.4   | 4.6   |      |
| Hyrax Hill                             | 20.7  | 24.7  | 18.7  | 5.2   | 11.7  |      |
| Karen Blixen                           | 42.4  | 48.7  | 51.0  | 11.9  | 17.1  |      |
| Malindi                                | 22.1  | 30.8  | 37.1  | 4.0   | 13.3  |      |
| Kilifi Mnarani                         | 1.9   | 3.0   | 2.5   | 0.9   | 2.4   |      |
| Kabarnet                               | 2.1   | 1.5   | 1.9   | 1.3   | 1.1   |      |
| Kapenguria                             | 11.5  | 13.4  | 12.8  | 2.9   | 7.6   |      |
| Swahili House                          | 0.2   | 0.3   | 0.2   | 0.1   | 0.3   |      |
| Narok                                  | 0.3   | 1.7   | 0.3   | 0.1   | 0.1   |      |
| German Post                            | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |      |
| Takwa Ruins                            | 1.4   | 0.8   | 0.8   | 1.0   | 1.6   |      |
| Rabai                                  | ..    | 4.5   | 5.0   | 0.7   | 2.5   |      |
| Lamu Port                              | 0.9   | 0.6   | 1.6   | 1.5   | 1.2   |      |
| Maralal                                | ..    | 1.5   | 1.7   | 0.4   | 1.1   |      |
| Kipini Site                            | ..    | ..    | 0.2   | ..    | ..    |      |
| Total                                  | 923.5 | 782.0 | 990.2 | 160.7 | 403.7 |      |

Source: National Museums of Kenya

\* Provisional

.. Data not available

### Conference Tourism

**12.21.** Conference tourism is largely associated with travel for business purposes. Table 12.12 presents indicators of conference tourism from 2019 to 2021. The number of international conferences held rose from 28 in 2020 to 292 in 2021. Consequently, the number of delegates attending international confer-

ences increased from 1,044 in 2020 to 9,093 in 2021. Similarly, local conferences increased from 1,176 in 2020 to 8,117 in 2021. The average occupancy rate of conference facilities improved by 2.7 percentage points to 7.9 per cent in 2021.

**Table 12.12: Indicators of Conference Tourism, 2019-2021**

|  | 2019      |               | 2020      |               | 2021*     |               |
|--|-----------|---------------|-----------|---------------|-----------|---------------|
|  | Local     | International | Local     | International | Local     | International |
| Number of conferences                        | 4,743     | 218           | 1,176     | 28            | 8,117     | 292           |
| Number of delegates                          | 696,863   | 72,011        | 80,139    | 1,044         | 164,928   | 9,093         |
| Number of delegate days                      | 778,355   | 135,110       | 317,569   | 19,321        | 626,726   | 49,060        |
| Number of delegate days available            | 7,233,512 | 7,233,515     | 6,510,163 | 6,510,163     | 8,585,293 | 8,585,293     |
| Percentage Occupancy                         | 10.8      | 1.9           | 4.9       | 0.3           | 7.3       | 0.6           |
| Conference Capacity Utilization (Percentage) | 12.6      |               | 5.2       |               | 7.9       |               |

### Training in Hospitality

**12.22.** Table 12.13 shows the number of trainees pursuing hospitality and tourism courses at the Kenya Utalii College (KUC). The number of trainees at KUC declined from 729 in 2020 to 243 in 2021. Students pursuing short courses increased from 214 in 2020 to 243 in 2021. There were no trainees attending the in-service refresher course in 2021.

**Table 12.13: Kenya Utalii College Trainees 2017-2021**

| Year  | In- Service |                  |           | Professional Courses |               |           | Number |  |
|-------|-------------|------------------|-----------|----------------------|---------------|-----------|--------|--|
|       | Refresher   | MDP <sup>2</sup> | Sub-Total | Regular Courses      | Short Courses | Sub-Total | Total  |  |
| 2017  | 1,249       | 255              | 1,504     | 449                  | 908           | 1,357     | 2,861  |  |
| 2018  | 1,130       | 253              | 1,383     | 229                  | 622           | 851       | 2,234  |  |
| 2019  | 1,313       | 269              | 1,582     | 465                  | 1,039         | 1,504     | 3,086  |  |
| 2020  | 137         | 0                | 137       | 378                  | 214           | 592       | 729    |  |
| 2021* | -           | -                | -         | -                    | 243           | 243       | 243    |  |

Source: Kenya Utalii College

\* Provisional

<sup>2</sup>MDP - Management Development Programmes

# Transportation and Storage

## Overview

The performance of the transportation and storage sector improved significantly in 2021 following the easing of restrictions of movement of persons that had been instituted by the Government to curb the spread of COVID-19 pandemic in 2020. These included resumption of both domestic and international flights and lifting of curfew that enabled night travel. Consequently, there was marked improvement in passenger transportation by air, road and railway.

**13.2.** In the railway subsector, revenue from cargo haulage on the Standard Gauge Railway (SGR) rose by 24.0 per cent from KSh 10.5 billion in 2020 to KSh 13.0 billion in 2021. Earnings from the Madaraka Express more than doubled to KSh 2.2 billion in 2021 from KSh 896 million in 2020. Similarly, revenue earned from passenger services on the Metre Gauge Railway (MGR) rose significantly from KSh 83 million in 2020 to KSh 234 million in 2021. Revenue from cargo transported on the MGR rose marginally from KSh 1,114 million in 2020 to KSh 1,118 million in 2021.

**13.3.** Cargo throughput increased from 34.1 million Metric Tonnes (MT) in 2020 to 34.5 million MT in 2021, representing a growth of 1.2 per cent. Container traffic increased by 5.6 per cent from 1,359.6 thousand Twenty-foot Equivalent Units (TEUs) in 2020 to 1,435.3 thousand TEUs in 2021. The number of ships docking at the Port of Mombasa rose from 1,621 in 2020 to 1,635 in 2021. The volume of imports handled at the Port of Mombasa decreased slightly from 27,771 thousand MT in 2020 to 27,332 thousand MT in 2021 while the volume of exports increased by 9.7 per cent to 4,612 thousand MT in 2021. The increase in exports is partly attributed to increased exportation of iron ores & titanium.

**13.4.** The volume of white petroleum transported through the pipeline recorded an increase of 10.1 per cent from 6,761.4 thousand cubic metres in 2020 to 7,447.1 thousand cubic metres in 2021. The volume of white petroleum products exported through the pipeline rose from 2,443.9 thousand cubic metres in 2020 to 2,960.8 thousand cubic metres in 2021. Pipeline throughput for domestic consumption increased

by 3.9 per cent from 4,317.5 thousand in 2020 to 4,486.3 thousand cubic metres in 2021.

**13.5.** Passenger traffic from all airports grew by 46.7 per cent to 6.6 million in 2021 from 4.5 million in 2020. The number of domestic air passengers handled rose by 65.5 per cent to 3.8 million passengers while the number of international passengers handled at Kenyan airports increased by 28.9 per cent to 2.7 million in 2021.

**13.6.** The number of newly registered motor vehicles rose by 14.2 per cent from 94,128 units in 2020 to 107,499 units in 2021. Similarly, the number of newly registered motorcycles and three wheelers went up by 15.4 per cent from 252,601 units in 2020 to 291,553 units in 2021. Actual funds for road maintenance increased to KSh 87.6 billion in 2020/21 from KSh 61.8 billion in 2019/20. The number of reported

traffic accidents increased by 14.5 per cent from 8,919 in 2020 to 10,210 in 2021.

#### Value of Output

**13.7** The value of output in the Transportation and Storage sector is presented in Table 13.1. The sector recorded a 16.7 per cent increase in the value of total output from KSh 1,965.2 billion in 2020 to KSh 2,293.3 billion in 2021. The value of output in the Road transport sub-sector rose by 16.1 per cent to 1,785.4 billion and accounted for 77.9 per cent of the value of total output, in 2021. The value of output from services incidental to transport and air transport increased by 23.8 per cent and 21.0 per cent respectively, during the period under review. The value of output from the railway sub-sector grew by 31.0 per cent from KSh 12.6 billion in 2020 to KSh 16.5 billion in 2021.

**Table 13.1: Transport and Storage - Value of Output, 2017 – 2021**

|  | <i>KSh Million</i> |                  |                  |                  |                  |
|--|--------------------|------------------|------------------|------------------|------------------|
|  | <b>2017</b>        | <b>2018</b>      | <b>2019</b>      | <b>2020</b>      | <b>2021*</b>     |
| Road Transport                                     | 1,194,999          | 1,377,138        | 1,531,990        | 1,537,403        | 1,785,356        |
| Railway Transport                                  | 4,601              | 11,497           | 14,828           | 12,553           | 16,526           |
| Water Transport                                    | 45,957             | 52,750           | 54,868           | 54,657           | 56,923           |
| Air Transport                                      | 169,626            | 202,000          | 216,376          | 111,010          | 134,274          |
| Storage and Other Services Incidental to Transport | 163,550            | 186,224          | 211,248          | 204,133          | 252,677          |
| Pipeline Transport                                 | 26,828             | 30,019           | 31,879           | 26,667           | 28,007           |
| Postal & Courier Services                          | 19,478             | 21,169           | 20,982           | 18,734           | 19,486           |
| <b>Total</b>                                       | <b>1,625,039</b>   | <b>1,880,797</b> | <b>2,082,170</b> | <b>1,965,157</b> | <b>2,293,250</b> |

\* Provisional.

## Road Maintenance Funds

**13.8.** Road maintenance funds collected by the Kenya Roads Board (KRB) from 2017/18 to 2021/22 is presented in Table 13.2. Actual road maintenance funds collected increased from KSh 61.8 billion in 2019/20 to KSh 87.6 billion in 2020/21 and is projected to decline to KSh 54.1 billion in 2021/22. Similarly,

the Fuel Levy Fund is expected to decline by 38.5 per cent from KSh 87.1 billion in 2020/21 to KSh 53.5 billion in 2021/22. Additionally, the transit toll collection is projected to slightly drop from KSh 550 million in 2020/21 to KSh 539 million in 2021/22.

**Table 13.2: Road Maintenance Funds by Source, 2017/18 -2021/22**

|              | <i>KSh Million</i> |                |                |                 |                  |
|--------------|--------------------|----------------|----------------|-----------------|------------------|
|              | <b>2017/18</b>     | <b>2018/19</b> | <b>2019/20</b> | <b>2020/21*</b> | <b>2021/22**</b> |
| Fuel Levy    | 63,474             | 56,260         | 61,283         | 87,050          | 53,539           |
| Transit Toll | 474                | 539            | 550            | 550             | 539              |
| <b>Total</b> | <b>63,948</b>      | <b>56,799</b>  | <b>61,833</b>  | <b>87,600</b>   | <b>54,078</b>    |

Source: Kenya Roads Board

\* Provisional.

\*\* Estimates

## Road Transport Output

**13.9** Table 13.3 presents road passenger and freight traffic output for the period 2017 to 2021. The total value of output grew by KSh 248.0 billion to KSh 1,785.4 billion in 2021. The value of total output of Road freight traffic rose by 30.5 per cent to KSh 794.5 billion while that of passenger traffic went up by 6.7 per cent to KSh 990.9 billion in 2021.

**Table 13.3 Road Transport Output for the period 2017 to 2021**

|                                    | <i>KSh Million</i> |                  |                  |                  |                  |
|------------------------------------|--------------------|------------------|------------------|------------------|------------------|
|                                    | <b>2017*</b>       | <b>2018</b>      | <b>2019</b>      | <b>2020</b>      | <b>2021*</b>     |
| Passenger Traffic                  | 727,871            | 835,109          | 926,650          | 928,784          | 990,852          |
| Freight Traffic+                   | 467,128            | 542,029          | 605,340          | 608,618          | 794,505          |
| <b>Total Road Traffic Earnings</b> | <b>1,194,999</b>   | <b>1,377,138</b> | <b>1,531,990</b> | <b>1,537,403</b> | <b>1,785,356</b> |

\* Provisional

+ Revised

## New Registration of Motor Vehicles and Motor Cycles

**13.10.** Table 13.4 presents the number of newly registered motor vehicles and motor cycles for the period 2017 to 2021. The number of newly registered units rose by 15.1 per cent to 399,052 in 2021 from 346,729 in 2020.

### Motor Vehicles

**13.11.** The number of newly registered motor vehicles recorded an increase of 14.2 per cent from 94,128 units in 2020 to 107,499 units in 2021. Station wagons accounted for the bulk of newly registered vehicles and rose from 57,962 registered units in 2020 to 64,350 units in 2021. Similarly, there was an

increase in registration of saloon cars (5.4 %), Lorries and Trucks (9.2%), trailers (33.8%) and wheeled tractors (10.7%). On the contrary, new registration of mini buses and matatus declined from 1,084 units in 2020 to 822 units in 2021.

### Motor Cycles and Auto Cycles

**13.12.** The number of newly registered motor and auto cycles rose by 15.6 per cent from 246,705 units in 2020 to 285,203 units in 2021. Newly registered three wheelers also increased by 7.7 per cent to 6,350 units in the review period.

**Table 13.4: New Registration of Road Motor Vehicles and Motorcycles, 2017-2021**

| Type of Vehicle/Motor Cycle   | 2017           | 2018           | 2019           | 2020           | Number<br>2021* |
|-------------------------------|----------------|----------------|----------------|----------------|-----------------|
| Saloon Cars                   | 11,376         | 10,504         | 9,971          | 7,754          | 8,170           |
| Station Wagons                | 55,322         | 64,179         | 72,512         | 57,962         | 64,350          |
| Panel Vans, Pick-ups,etc      | 9,866          | 11,220         | 10,189         | 6,065          | 5,986           |
| Lorries/Trucks                | 7,460          | 6,514          | 6,518          | 6,476          | 7,071           |
| Buses and Coaches             | 1,072          | 1,065          | 1,339          | 900            | 893             |
| Mini Buses/Matatu             | 459            | 812            | 1,932          | 1,084          | 822             |
| Trailers                      | 1,953          | 2,083          | 1,639          | 2,382          | 3,187           |
| Wheeled Tractors              | 2,703          | 4,040          | 1,815          | 2,545          | 2,818           |
| Other vehicles                | 860            | 1,619          | 3,836          | 8,960          | 14,202          |
| <b>Total Motor Vehicles</b>   | <b>91,071</b>  | <b>102,036</b> | <b>109,751</b> | <b>94,128</b>  | <b>107,499</b>  |
| Motor and AutoCycles          | 186,434        | 188,994        | 210,103        | 246,705        | 285,203         |
| Three Wheelers                | 5,167          | 6,259          | 7,322          | 5,896          | 6,350           |
| <b>Total Motor Cycles</b>     | <b>191,601</b> | <b>195,253</b> | <b>217,425</b> | <b>252,601</b> | <b>291,553</b>  |
| <b>Total Units Registered</b> | <b>282,672</b> | <b>297,289</b> | <b>327,176</b> | <b>346,729</b> | <b>399,052</b>  |

Source: National Transport and Safety Authority

\* Provisional.

## Road Licenses

**13.13.** The number of Road Transport Licenses issued from 2017 to 2021 is presented in Table 13.5. The total number of Public Service Vehicles (PSV) licenses issued went up by 11.7 per cent from 49,560 in 2020 to 55,355 in 2021. There was a 12.6 per cent drop in the number of PSV licenses issued to matatus from 36,323 in 2020 to 31,737 in 2021. The number of PSV bus licenses issued increased by

58.1 per cent while those of mini buses doubled during the period under review. The rise in number of PSV licenses issued is partly attributed to easing of containment measures that had been put in place to curb the spread of COVID-19. The number of individual driving licenses issued rose by 26.9 per cent to 384,899 during the period under review.

**Table 13.5: Road Transport Licenses Issued, 2017 – 2021**

| Type of License                            | 2017           | 2018           | 2019           | 2020           | Number<br>2021* |
|--|----------------|----------------|----------------|----------------|-----------------|
| <b>PSV Licenses<sup>1</sup></b>            |                |                |                |                |                 |
| Matatus (Less than or equal to 14 seaters) | 37,382         | 36,815         | 47,183         | 36,323         | 31,737          |
| Mini Buses (15-33 seaters)                 | 4,246          | 7,861          | 7,786          | 5,836          | 11,919          |
| Buses ( 34 and above seaters)              | 12,064         | 13,273         | 8,969          | 7,401          | 11,699          |
| <b>Total</b>                               | <b>53,692</b>  | <b>57,949</b>  | <b>63,938</b>  | <b>49,560</b>  | <b>55,355</b>   |
| <b>Driving Licenses<sup>2</sup></b>        |                |                |                |                |                 |
| Original                                   | 219,333        | 152,349        | ..             | ..             | 384,004         |
| Duplicate                                  | 70,689         | 10,600         | ..             | ..             | ..              |
| Foreign                                    | 1,129          | 1,400          | ..             | ..             | 895             |
| <b>Total</b>                               | <b>291,151</b> | <b>164,349</b> | <b>140,279</b> | <b>303,278</b> | <b>384,899</b>  |

Source: National Transport and Safety Authority

\* Provisional.

<sup>1</sup> Includes Tour Vans and taxis

<sup>2</sup> In 2019, NTSA introduced a new system for capturing information on application and issuance of driving licenses and therefore it was not possible to disaggregate driving licenses issued by type.

.. Data not available

## Road Traffic Accidents

**13.14.** Table 13.6(a) presents the number of reported road accidents, persons injured and fatalities for the period 2017 to 2021. The number of reported traffic accidents rose by 14.5 per cent from 8,919 in 2020 to 10,210 in 2021. Consequently, there was a 21.5 per cent increase in road accident casualties from 16,970 in 2020 to 20,625 in 2021. The number of reported road users killed went up by 15.2 per cent

from 3,975 in 2020 to 4,579 in 2021. The seriously injured persons in reported road accidents rose by 25.2 per cent to 10,050 in 2021 from 8,026 in 2020, while those slightly injured rose by 20.7 per cent to 5,996 in 2021. The increased cases of road accidents were attributed to speeding, over-loading, improper over-taking and driving under the influence of alcohol.

**Table 13.6(a): Reported Road Traffic Accidents, 2017 – 2021**

|  | <b>Number</b> |               |               |               |               |
|--|---------------|---------------|---------------|---------------|---------------|
|  | <b>2017</b>   | <b>2018</b>   | <b>2019</b>   | <b>2020</b>   | <b>2021*</b>  |
| Reported Traffic Accidents                   | 4,452         | 5,158         | 7,184         | 8,919         | 10,210        |
| <b>Persons Killed or Injured:- of which:</b> | <b>11,215</b> | <b>12,877</b> | <b>15,747</b> | <b>16,970</b> | <b>20,625</b> |
| Killed                                       | 2,919         | 3,158         | 3,586         | 3,975         | 4,579         |
| Seriously Injured                            | 3,950         | 4,673         | 6,952         | 8,026         | 10,050        |
| Slightly Injured                             | 4,346         | 5,046         | 5,209         | 4,969         | 5,996         |

Source: Kenya Police, Traffic Department

\* Provisional.

**13.15.** The number of casualties from reported road accidents by type and class for the period 2017 to 2021 is presented in Table 13.6(b). Pedestrian casualties rose by 15.2 per cent from 3,186 in 2020 to 3,670 in 2021. The number of driver casualties in reported road accidents rose by 20.1 per cent to 2,105 while the number of passenger casualties increased by 33.8 per cent to 7,587 in 2021. The number of pillion passenger casualties in the reported road accidents went up by 16.5 per cent from 2,332

in 2020 to 2,716 in 2021. Similarly, the number of motor cycle rider casualties rose by 13.6 per cent from 3,818 in 2020 to 4,336 in 2021. The number of pedal cyclist casualties from the reported road accidents remained the same during the period under review. Pedestrians and motor cyclists had the highest proportion of those killed while passengers and motor cyclists had the highest proportion of those seriously injured.

**Table 13.6(b) Reported Road Accidents Casualties by Type and Class, 2017 - 2021**

| Type                      | Classes            | 2017          | 2018          | 2019          | 2020          | Number<br>2021* |
|---------------------------|--------------------|---------------|---------------|---------------|---------------|-----------------|
| <b>Pedestrians</b>        | Killed             | 1,060         | 1,205         | 1,390         | 1,383         | 1,557           |
|                           | Seriously Injured  | 673           | 851           | 1,277         | 1,498         | 1,769           |
|                           | Slightly Injured   | 203           | 256           | 283           | 305           | 344             |
|                           | <b>Total</b>       | <b>1,936</b>  | <b>2,312</b>  | <b>2,950</b>  | <b>3,186</b>  | <b>3,670</b>    |
| <b>Drivers</b>            | Killed             | 314           | 306           | 345           | 347           | 446             |
|                           | Seriously Injured  | 459           | 496           | 651           | 824           | 987             |
|                           | Slightly Injured   | 292           | 307           | 465           | 582           | 672             |
|                           | <b>Total</b>       | <b>1,065</b>  | <b>1,109</b>  | <b>1,461</b>  | <b>1,753</b>  | <b>2,105</b>    |
| <b>Passengers</b>         | Killed             | 773           | 746           | 704           | 580           | 767             |
|                           | Seriously Injured  | 1,838         | 2,093         | 2,771         | 2,143         | 3,094           |
|                           | Slightly Injured   | 3,513         | 4,087         | 3,705         | 2,947         | 3,726           |
|                           | <b>Sub-Total</b>   | <b>6,124</b>  | <b>6,926</b>  | <b>7,180</b>  | <b>5,670</b>  | <b>7,587</b>    |
| <b>Pillion Passengers</b> | Killed             | 219           | 247           | 348           | 439           | 451             |
|                           | Seriously Injured  | 403           | 499           | 836           | 1,319         | 1,594           |
|                           | Slightly Injured   | 173           | 206           | 390           | 574           | 671             |
|                           | <b>Sub-Total</b>   | <b>792</b>    | <b>952</b>    | <b>1,574</b>  | <b>2,332</b>  | <b>2,716</b>    |
| <b>Pedal Cyclist</b>      | Killed             | 57            | 63            | 74            | 90            | 87              |
|                           | Seriously Injured  | 33            | 36            | 76            | 100           | 105             |
|                           | Slightly Injured   | 15            | 6             | 22            | 21            | 19              |
|                           | <b>Sub-Total</b>   | <b>105</b>    | <b>105</b>    | <b>172</b>    | <b>211</b>    | <b>211</b>      |
| <b>Motor Cyclist</b>      | Killed             | 496           | 591           | 725           | 1,136         | 1,271           |
|                           | Seriously Injured  | 544           | 698           | 1,341         | 2,142         | 2,501           |
|                           | Slightly Injured   | 150           | 184           | 344           | 540           | 564             |
|                           | <b>Sub-Total</b>   | <b>1,190</b>  | <b>1,473</b>  | <b>2,410</b>  | <b>3,818</b>  | <b>4,336</b>    |
| <b>All</b>                | Killed             | 2,919         | 3,158         | 3,586         | 3,975         | 4,579           |
|                           | Seriously Injured  | 3,950         | 4,673         | 6,952         | 8,026         | 10,050          |
|                           | Slightly Injured   | 4,346         | 5,046         | 5,209         | 4,969         | 5,996           |
|                           | <b>Grand Total</b> | <b>11,215</b> | <b>12,877</b> | <b>15,747</b> | <b>16,970</b> | <b>20,625</b>   |

Source: Kenya Police, Traffic Department

\* Provisional.

## Railway Transport

**13.16.** Table 13.7 (a) highlights Meter Gauge Railway (MGR) traffic for 2017 to 2021. The volume of cargo transported via MGR declined marginally from 652 thousand tonnes in 2020 to 644 thousand tonnes during the period under review. This was mainly due to a decline in import volumes of steel, one of the main commodities transported using the MGR. Despite the drop in cargo haulage, there was a slight increase in revenue from MGR cargo stream from KSh 1,114 million in 2020 to KSh 1,118 million in 2021 partly due to ferrying of high value cargo.

**13.17.** The number of passenger journeys by MGR

more than doubled from 1,899 thousand in 2020 to 4,498 in 2021. Consequently, the revenue from MGR passenger service rose significantly from KSh 83 million in 2020 to KSh 234 million in 2021. The upsurge was mainly attributed to easing of COVID-19 containment measures in the country, continued revamping of Nairobi Commuter Rail (NCR) services through the full operationalization of 11 Diesel Multiple Units (DMU) and the introduction of new routes to Limuru and Lukenya. The re-introduction of the Nairobi - Kisumu Safari Train in December 2021 partly contributed to improved revenue in the MGR passenger service.

**Table 13.7(a): Meter Gauge Railway Traffic, 2017-2021**

|                          | Unit        | 2017  | 2018  | 2019  | 2020  | 2021* |
|--------------------------|-------------|-------|-------|-------|-------|-------|
| <b>Freight:</b>          |             |       |       |       |       |       |
| Tonnes                   | 000         | 1,147 | 645   | 667   | 652   | 644   |
| Tonne-km                 | Million     | 857   | 314   | 375   | 393   | 343   |
| Revenue                  | KSh Million | 3001  | 1,123 | 963   | 1,114 | 1,118 |
| Revenue per tonne-Km     | KSh         | 3.50  | 3.58  | 2.57  | 2.83  | 3.26  |
| <b>Passenger:</b>        |             |       |       |       |       |       |
| Journeys                 | 000         | 2,397 | 2,824 | 4,025 | 1,899 | 4,498 |
| Passenger-Km             | Million     | 88    | 130   | 146   | 49    | 112   |
| Revenue                  | KSh Million | 81    | 132   | 167   | 83    | 234   |
| Revenue per passenger-Km | KSh         | 0.92  | 1.02  | 1.14  | 1.69  | 2.09  |

Source: Kenya Railways Corporation

\* Provisional

**13.18.** The SGR freight haulage increased by 22.6 per cent from 4,411 thousand tonnes in 2020 to 5,407 thousand tonnes in 2021 as presented in Table 13.7 (b). As a result, revenue realized from cargo haulage rose by 24.0 per cent from KSh 10.5 billion in 2020 to KSh 13.0 billion in 2021. The increase in tonnage and revenue was partly attributed to the full utilization of the expanded Nairobi Inland Container Depot (ICD), re-introduction of double stack and long freight trains. In addition, enhanced collaboration between Kenya Railways and other agencies resulted in expeditious processing and evacuation of cargo.

**13.19.** The number of passenger journeys by Mada-raka Express more than doubled from 806 thousand in 2020 to 1,993 thousand in 2021. Similarly, revenue from passenger traffic more than doubled to KSh 2,201 million in 2021 from KSh 896 million in 2020. The increase in passenger traffic and revenue was buoyed by easing of COVID-19 measures relating to mobility coupled with introduction of additional passenger train for night travel.

**Table 13.7(b): Standard Gauge Railway Traffic, 2017-2021**

|                             | Unit        | 2017 | 2018  | 2019   | 2020   | 2021*  |
|-----------------------------|-------------|------|-------|--------|--------|--------|
| <b>Freight<sup>1</sup>:</b> |             |      |       |        |        |        |
| Tonnes                      | 000         | -    | 2,899 | 4,159  | 4,411  | 5,407  |
| Tonne-km                    | Million     | -    | 1,361 | 1,959  | 2,100  | 2,539  |
| Revenue                     | KSh Million | -    | 4,091 | 13,013 | 10,460 | 12,973 |
| Revenue per tonne-Km        | KSh         |      | 3.01  | 6.64   | 4.98   | 5.11   |
| <b>Passenger:</b>           |             |      |       |        |        |        |
| Journeys                    | 000         | 699  | 1,666 | 1,599  | 806    | 1,993  |
| Passenger-Km                | Million     | 229  | 786   | 746    | 370    | 921    |
| Revenue                     | KSh Million | 628  | 1,611 | 1,717  | 896    | 2,201  |
| Revenue per passenger-Km    | KSh         | 2.74 | 2.05  | 2.30   | 2.42   | 2.39   |

Source: Kenya Railways Corporation

\* Provisional

<sup>1</sup> Revenue on freight is net revenue having deducted customer discounts

## Water Transport

**13.20.** Volume of traffic handled at the Port of Mombasa is presented in Table 13.8 for the period 2017 to 2021. Cargo throughput expanded by 1.2 per cent from 34.1 million MT recorded in 2020 to 34.5 million MT in 2021. Similarly, container traffic increased from 1,359.6 thousand Twenty-foot Equivalent Units (TEUs) in 2020 to 1,435.3 thousand TEUs in 2021. The number of ships docking at the Port rose marginally by 0.9 per cent to 1,635 in 2021 from 1,621 in 2020.

**13.21.** The volume of import traffic decreased slightly from 27,771 thousand metric tonnes in 2020 to 27,332 thousand metric tonnes in 2021. The decline was mainly attributed to increased local production of cement products. The volume of imports of dry bulk cargo decreased by 13.2 per cent from 8,254 thousand metric tonnes in 2020 to 7,165 thousand metric tonnes in 2021. Imports of dry general cargo increased from 11,199 thousand metric tonnes in 2020 to 11,563 thousand metric tonnes in 2021. Bulk liquid imports rose from 8,318 thousand metric tonnes in 2020 to 8,604 thousand metric tonnes in 2021. The volume of transit in cargo went down by 8.2 per cent to 8,673 thousand metric tonnes in 2021, mainly on account of disruptions of trade due to COVID-19 control measures. The number of motor vehicles landed rose by 24.9 per cent from 101,220 units in 2020 to 126,415 units in 2021.

**13.22.** The volume of exports handled at the Port of Mombasa increased by 9.7 per cent from 4,205 thousand metric tonnes in 2020 to 4,612 thousand metric tonnes in 2021. The increase in the volume of exports was partly driven by growth in iron ore and titanium exports in 2021. Dry bulk exports increased by 23.4 per cent from 475 thousand metric tonnes in 2020 to 586 thousand metric tonnes in 2021. Bulk liquid exports dropped by 16.7 per cent to 50 thousand metric tonnes during the period under review. The volume of dry general exports rose by 8.3 per cent from 3,670 thousand metric tonnes in 2020 to 3,976 thousand metric tonnes in 2021. The volume of transit out rose by 19.7 per cent to 868 thousand metric tonnes in 2021. The volume of trans-shipment and restows went up by 22.6 per cent and 8.3 per cent, to 2,489 thousand MT and 118 thousand MT respectively, during the period under review.



**Cargo throughput expanded by 1.2 per cent from 34.1 million MT recorded in 2020 to 34.5 million MT in 2021. Similarly, container traffic increased from 1,359.6 thousand Twenty-foot Equivalent Units (TEUs) in 2020 to 1,435.3 thousand TEUs in 2021**

**Table 13.8: Traffic Handled at the Port of Mombasa, 2017 – 2021**

|                                  | Unit    | 2017          | 2018          | 2019          | 2020          | 2021*         |
|----------------------------------|---------|---------------|---------------|---------------|---------------|---------------|
| Container Traffic                | TEUs    | 1,189,957     | 1,303,862     | 1,416,654     | 1,359,579     | 1,435,250     |
| Ships Docking                    | No.     | 1,767         | 1,605         | 1,675         | 1,621         | 1,635         |
| <b>Imports</b>                   |         |               |               |               |               |               |
| Dry General                      | 000' MT | 9,505         | 9,782         | 11,198        | 11,199        | 11,563        |
| Dry Bulk                         | "       | 7,920         | 7,929         | 7,784         | 8,254         | 7,165         |
| Bulk Liquids                     | "       | 8,179         | 7,764         | 8,576         | 8,318         | 8,604         |
| <b>Total Imports</b>             | "       | <b>25,604</b> | <b>25,475</b> | <b>27,558</b> | <b>27,771</b> | <b>27,332</b> |
| Of which Transit In              | "       | 7,903         | 8,873         | 9,244         | 9,446         | 8,673         |
| Motor Vehicles landed            | No.     | 114,133       | 123,168       | 123,826       | 101,220       | 126,415       |
| <b>Exports</b>                   |         |               |               |               |               |               |
| Dry General                      | 000' MT | 3,167         | 3,347         | 3,620         | 3,670         | 3,976         |
| Dry Bulk                         | "       | 547           | 733           | 602           | 475           | 586           |
| Bulk Liquids                     | "       | 80            | 45            | 55            | 60            | 50            |
| <b>Total Exports</b>             | "       | <b>3,794</b>  | <b>4,125</b>  | <b>4,277</b>  | <b>4,205</b>  | <b>4,612</b>  |
| Of which Transit Out             | "       | 734           | 731           | 703           | 725           | 868           |
| <b>Total Imports and Exports</b> | "       | <b>29,398</b> | <b>29,600</b> | <b>31,835</b> | <b>31,976</b> | <b>31,944</b> |
| Trans-shipment                   | "       | 874           | 1247          | 2,495         | 2,031         | 2,489         |
| Restows                          | "       | 73            | 76            | 110           | 109           | 118           |
| <b>Grand Total</b>               | "       | <b>30,272</b> | <b>30,923</b> | <b>34,440</b> | <b>34,116</b> | <b>34,551</b> |

Source: Kenya Ports Authority

\* Provisional.

MT - Metric Tonnes

TEUs - Twenty-foot Equivalent Units

### Pipeline Transport

**13.23.** Table 13.9 presents the volume of white petroleum products transported through the pipeline from 2017 to 2021. Total volume of white petroleum transported through pipeline increased by 10.1 per cent from 6,761.4 thousand cubic metres in 2020 to 7,447.1 thousand cubic metres in 2021. There was a 21.2 per cent increase in the volume of white petroleum products on transit through pipeline from 2,443.9 thousand cubic metres in 2020 to 2,960.8 thousand cubic metres in 2021. Motor spirit throughput rose by 30.9 per cent to 1,360.3 thousand cubic metres in 2021 from 1,039.0 thousand cubic metres in 2020. Light diesel on transit via the pipeline also

rose by 16.3 per cent from 1,165.7 thousand cubic metres in 2020 to 1,355.7 thousand cubic metres in 2021. The volume of Illuminating Kerosene on transit via the pipeline rose by 8.1 per cent to 54.6 thousand cubic metres in 2021.

**13.24.** The total pipeline throughput for domestic consumption rose marginally by 3.9 per cent from 4,317.5 thousand cubic metres in 2020 to 4,486.3 thousand cubic metres in 2021. The volume of jet fuel transported for local consumption declined by 25.2 per cent to 572.5 thousand cubic metres in 2021. The volume of Motor Spirit transported via pipeline for

local consumption increased by 13.1 per cent from 1,627.2 thousand cubic metres in 2020 to 1,839.8 thousand cubic metres in 2021. Similarly, the volume of light diesel transported via the pipeline for local consumption rose by 9.0 per cent to 1,943.3 cubic

metres in 2021. There was a further 8.2 per cent decrease in the volume of Illuminating Kerosene transported via pipeline for domestic consumption to 130.7 thousand cubic metres in 2021 from 142.3 thousand cubic metres in 2020.

**Table 13.9: Pipeline Throughput of White Petroleum Products, 2017 – 2021**

|   | 2017           | 2018           | 2019           | 2020           | '000 Cubic Metres<br>2021* |
|---|----------------|----------------|----------------|----------------|----------------------------|
| <b>Transit<sup>1</sup></b>              |                |                |                |                |                            |
| Motor Spirit (Premium)                  | 744.2          | 739.3          | 948.3          | 1,039.0        | 1,360.3                    |
| Illuminating Kerosene                   | 60.4           | 60.8           | 56.1           | 50.5           | 54.6                       |
| Light Diesel Oil                        | 938.8          | 926.6          | 1,136.7        | 1,165.7        | 1,355.7                    |
| Jet Fuel                                | 238.4          | 232.7          | 217.7          | 188.7          | 190.2                      |
| <b>Sub-Total</b>                        | <b>1,981.8</b> | <b>1,959.5</b> | <b>2,358.8</b> | <b>2,443.9</b> | <b>2,960.8</b>             |
| <b>Domestic Consumption<sup>2</sup></b> |                |                |                |                |                            |
| Motor Spirit (Premium)                  | 1,228.8        | 1,368.4        | 1,690.3        | 1,627.2        | 1,839.8                    |
| Illuminating Kerosene                   | 446.9          | 316.9          | 166.1          | 142.3          | 130.7                      |
| Light Diesel Oil                        | 1,616.4        | 1,772.0        | 1,875.0        | 1,782.7        | 1,943.3                    |
| Jet Fuel                                | 881.8          | 904.7          | 935.7          | 765.3          | 572.5                      |
| <b>Sub-Total</b>                        | <b>4,173.9</b> | <b>4,362.0</b> | <b>4,667.1</b> | <b>4,317.5</b> | <b>4,486.3</b>             |
| <b>Grand Total</b>                      | <b>6,155.7</b> | <b>6,321.5</b> | <b>7,025.9</b> | <b>6,761.4</b> | <b>7,447.1</b>             |

Source: Kenya Pipeline Company

\* Provisional.

<sup>1</sup>Implies petroleum products destined to neighbouring countries and are different from exports reported in Chapter 6: International Trade and Balance of Payments

<sup>2</sup> Excludes fuels transported by Kenya Railways or consumed in the Coastal region.

**Note:** The figures may differ from those in Chapter 9 (Energy) due to different definition and classification of throughput in the context of international trade. Furthermore Chapter 9 data are in '000 tonnes whereas conversion of cubic metres to tonnes varies with product.

## Air Transport

**13.25.** Commercial passenger traffic by airport from 2017 to 2021 are presented in Table 13.10. Air passenger traffic expanded by 46.7 per cent from 4.5 million in 2020 to 6.6 million in 2021. The number of domestic passengers handled rose by 65.2 per cent from 2.3 million in 2020 to 3.8 million in 2021 while that of international passengers handled increased

by 28.6 per cent to 2.7 million during the year. The number of passengers handled at Jomo Kenyatta International Airport (JKIA) increased by 41.4 per cent to 4.0 million in 2021. Similarly, the number of passengers handled at Moi International Airport (MIA) rose by 37.5 per cent over the same period.

**Table 13.10: Commercial Passenger Traffic<sup>1</sup> by Airport, 2017 – 2021**

| Year         | Category <sup>1</sup> | Sub-Category     | '000 Number    |                |                | Total Passenger Traffic |
|--------------|-----------------------|------------------|----------------|----------------|----------------|-------------------------|
|              |                       |                  | JKIA           | MIA            | Other Airports |                         |
| <b>2017</b>  | Domestic              | Arrivals         | 807.4          | 469.4          | 798.2          | 2,074.9                 |
|              |                       | Departures       | 668.9          | 474.6          | 778.6          | 1,922.1                 |
|              | International         | <b>Sub-Total</b> | <b>1,476.3</b> | <b>944.0</b>   | <b>1,576.8</b> | <b>3,997.1</b>          |
|              |                       | Arrivals         | 2,868.3        | 149.1          | 11.6           | 3,029.0                 |
|              |                       | Departures       | 1,675.0        | 153.5          | 12.4           | 1,840.8                 |
|              |                       | In Transit       | 1,251.3        | 0.0            | 0.0            | 1,251.3                 |
|              | <b>Total</b>          | <b>Sub-Total</b> | <b>5,794.5</b> | <b>302.6</b>   | <b>24.0</b>    | <b>6,121.1</b>          |
|              |                       |                  |                |                |                |                         |
| <b>2018</b>  | Domestic              | Arrivals         | 841.6          | 514.4          | 1,108.5        | 2,464.5                 |
|              |                       | Departures       | 730.7          | 490.3          | 1,095.6        | 2,316.7                 |
|              | International         | <b>Sub-Total</b> | <b>1,572.3</b> | <b>1,004.7</b> | <b>2,204.1</b> | <b>4,781.1</b>          |
|              |                       | Arrivals         | 3,147.5        | 187.8          | 30.2           | 3,365.5                 |
|              |                       | Departures       | 1,873.3        | 220.7          | 17.2           | 2,111.2                 |
|              |                       | In Transit       | 1,426.0        | 0.0            | 37.9           | 1,463.9                 |
|              | <b>Total</b>          | <b>Sub-Total</b> | <b>6,446.8</b> | <b>408.5</b>   | <b>85.3</b>    | <b>6,940.6</b>          |
|              |                       |                  |                |                |                |                         |
| <b>2019</b>  | Domestic              | Arrivals         | 880.0          | 523.6          | 1,091.0        | 2,494.6                 |
|              |                       | Departures       | 739.7          | 527.4          | 1,103.4        | 2,370.5                 |
|              |                       | <b>Sub-Total</b> | <b>1,619.7</b> | <b>1,051.0</b> | <b>2,194.4</b> | <b>4,865.1</b>          |
|              | International         | Arrivals         | 3,244.5        | 211.6          | 43.4           | 3,499.5                 |
|              |                       | Departures       | 1,924.6        | 222.0          | 17.1           | 2,163.7                 |
|              |                       | In Transit       | 1,394.1        | 51.7           | 36.9           | 1,482.7                 |
|              | <b>Total</b>          | <b>Sub-Total</b> | <b>6,563.2</b> | <b>485.3</b>   | <b>97.4</b>    | <b>7,145.9</b>          |
|              |                       |                  |                |                |                |                         |
| <b>2020</b>  | Domestic              | Arrivals         | 442.9          | 246.9          | 481.5          | 1,171.3                 |
|              |                       | Departures       | 423.3          | 241.5          | 482.2          | 1,147.0                 |
|              | International         | <b>Sub-Total</b> | <b>866.2</b>   | <b>488.4</b>   | <b>963.7</b>   | <b>2,318.3</b>          |
|              |                       | Arrivals         | 936.8          | 72.3           | 2.9            | 1,012.0                 |
|              |                       | Departures       | 662.6          | 85.5           | 3.2            | 751.3                   |
|              |                       | In Transit       | 345.6          | 22.9           | 0.0            | 368.5                   |
|              | <b>Total</b>          | <b>Sub-Total</b> | <b>1,945.0</b> | <b>180.7</b>   | <b>6.1</b>     | <b>2,131.8</b>          |
|              |                       |                  |                |                |                |                         |
| <b>2021*</b> | Domestic              | Arrivals         | 725.4          | 389.8          | 838.4          | 1,953.6                 |
|              |                       | Departures       | 659.4          | 385.1          | 839.6          | 1,884.1                 |
|              | International         | <b>Sub-Total</b> | <b>1,384.8</b> | <b>774.9</b>   | <b>1,678.0</b> | <b>3,837.7</b>          |
|              |                       | Arrivals         | 1,250.5        | 59.9           | 6.2            | 1,316.6                 |
|              |                       | Departures       | 1,292.9        | 60.3           | 6.8            | 1,360.0                 |
|              |                       | In Transit       | 45.9           | 25.0           | 0.0            | 70.9                    |
|              | <b>Total</b>          | <b>Sub-Total</b> | <b>2,589.3</b> | <b>145.2</b>   | <b>13.0</b>    | <b>2,747.5</b>          |
|              |                       |                  |                |                |                |                         |

Source: Kenya Airports Authority

\* Provisional

<sup>1</sup> Passenger traffic includes residents. This may differ with figures in chapter 12, which only covers Non-residents

**13.26.** Table 13.11 presents the volume of commercial cargo and mail traffic handled at Kenyan airports between 2017 and 2021. The volume of all cargo handled at airports went up by 16.9 per cent from 321.6 thousand tonnes in 2020 to 375.8 thousand tonnes in 2021. The volume of commercial cargo landed declined by 19.6 per cent from 89.6 thousand tonnes in 2020 to 72.0 thousand tonnes in 2021. Loaded cargo traffic rose by 30.9 per cent to 303.8

thousand tonnes in 2021. The volume of cargo traffic handled at JKIA rose from 308.1 thousand tonnes in 2020 to 361.5 thousand tonnes in 2021. Similarly, MIA had a 46.3 per cent rise in cargo traffic to 2.0 thousand tonnes in 2021. Commercial mail traffic increased by 20.9 per cent to 1,673.4 thousand tonnes with JKIA registering an increase in mail traffic handled from 1.4 thousand tonnes in 2020 to 1.7 thousand tonnes in 2021.

**Table 13.11: Commercial Cargo and Mail Traffic by Airport, 2017 – 2021**

| Year  | Category     | Cargo Traffic    |                |                 |                  | Mail Traffic   |            |                | Tonnes |
|-------|--------------|------------------|----------------|-----------------|------------------|----------------|------------|----------------|--------|
|       |              | JKIA             | MIA            | Other Airports  | Total            | JKIA           | MIA        | Total          |        |
| 2017  | Landed       | 49,443.1         | 2,404.0        | 11,631.0        | 63,478.1         | 434.7          | 1.8        | 436.5          |        |
|       | Loaded       | 223,565.7        | 1,194.6        | 2,533.2         | 227,293.5        | 179.5          | 1.0        | 180.5          |        |
|       | <b>Total</b> | <b>273,008.8</b> | <b>3,598.6</b> | <b>14,164.2</b> | <b>290,771.6</b> | <b>614.2</b>   | <b>2.8</b> | <b>617.0</b>   |        |
| 2018  | Landed       | 74,574.4         | 1,064.0        | 11,836.0        | 87,474.4         | 613.7          | 0.3        | 614.0          |        |
|       | Loaded       | 266,257.8        | 2,971.1        | 2,046.0         | 271,274.9        | 222.6          | 1.0        | 223.6          |        |
|       | <b>Total</b> | <b>340,832.2</b> | <b>4,035.1</b> | <b>13,882.0</b> | <b>358,749.3</b> | <b>836.3</b>   | <b>1.3</b> | <b>837.6</b>   |        |
| 2019  | Landed       | 69,610.8         | 731.8          | 14,131.5        | 84,471.9         | 639.0          | -          | 639.0          |        |
|       | Loaded       | 287,645.3        | 2,336.0        | 205.9           | 290,190.0        | 450.1          | 0.0        | 450.1          |        |
|       | <b>Total</b> | <b>357,256.1</b> | <b>3,067.8</b> | <b>14,337.4</b> | <b>374,661.9</b> | <b>1,089.1</b> | <b>0.0</b> | <b>1,089.1</b> |        |
| 2020  | Landed       | 77,316.2         | 189.1          | 12,084.2        | 89,589.5         | 500.8          |            | 500.8          |        |
|       | Loaded       | 230,804.5        | 1,192.1        | 47.7            | 232,044.3        | 883.5          | 0.2        | 883.7          |        |
|       | <b>Total</b> | <b>308,120.7</b> | <b>1,381.2</b> | <b>12,131.9</b> | <b>321,633.8</b> | <b>1,384.3</b> | <b>0.2</b> | <b>1,384.5</b> |        |
| 2021* | Landed       | 59,316.9         | 483.9          | 12,229.0        | 72,029.8         | 477.3          | 1.0        | 478.3          |        |
|       | Loaded       | 302,216.3        | 1,537.4        | 47.2            | 303,800.9        | 1,193.1        | 2.0        | 1,195.1        |        |
|       | <b>Total</b> | <b>361,533.2</b> | <b>2,021.3</b> | <b>12,276.2</b> | <b>375,830.7</b> | <b>1,670.4</b> | <b>3.0</b> | <b>1,673.4</b> |        |

Source: Kenya Airports Authority

\* Provisional

## Aircraft Movements

**13.27.** Total aircraft movements rose from 197,428 in 2020 to 253,009 in 2021 as shown in Table 13.12. Total landings went up by 31.9 per cent while take-offs went up by 28.5 per cent to 110,214 and 108,958, respectively, in 2021. In addition, the number of over-flights rose by 16.3 per cent to 33,837 during the period under review. Improvement in air traffic movement is majorly attributed to the gradual resumption of international flights due to easing of COVID-19 pandemic containment measures both domestically and internationally.

**13.28.** The number of domestic flights rose by 34.6 per cent while international flights rose by 18.2 per cent during the same period. The share of international air traffic movement to total movement declined from 22.9 per cent in 2020 to 21.1 per cent in 2021, while the share of domestic flights to total movements went up from 62.3 per cent to 65.5 per cent in 2021.

**Table 13.12: Domestic and International Aircraft Movements, 2017 – 2021**

| Type                 | Movement           | 2017           | 2018           | 2019           | 2020           | Number<br>2021* |
|----------------------|--------------------|----------------|----------------|----------------|----------------|-----------------|
| <b>Domestic</b>      | Landings           | 103,922        | 113,803        | 108,836        | 61,060         | 83,387          |
|                      | Take-offs          | 103,909        | 115,435        | 110,430        | 61,988         | 82,275          |
|                      | <b>Total</b>       | <b>207,831</b> | <b>229,238</b> | <b>219,266</b> | <b>123,048</b> | <b>165,662</b>  |
| <b>International</b> | Landings           | 47,038         | 47,918         | 48,260         | 22,488         | 26,827          |
|                      | Take-offs          | 46,459         | 48,183         | 49,172         | 22,791         | 26,683          |
|                      | <b>Total</b>       | <b>93,497</b>  | <b>96,101</b>  | <b>97,432</b>  | <b>45,279</b>  | <b>53,510</b>   |
| <b>Total</b>         | Landings           | 150,960        | 161,721        | 157,096        | 83,548         | 110,214         |
|                      | Take-offs          | 150,368        | 163,618        | 159,602        | 84,779         | 108,958         |
|                      | <b>Sub-Total</b>   | <b>301,328</b> | <b>325,339</b> | <b>316,698</b> | <b>168,327</b> | <b>219,172</b>  |
|                      | Over-flights       | 52,848         | 58,005         | 58,801         | 29,101         | 33,837          |
|                      | <b>Grand Total</b> | <b>354,176</b> | <b>383,344</b> | <b>375,499</b> | <b>197,428</b> | <b>253,009</b>  |

Source: Kenya Civil Aviation Authority

\* Provisional

### Selected Aviation Industry Indicators

**13.29.** Selected aviation indicators for the period 2017 and 2021 are presented in Table 13.13. There was a 2.7 per cent rise in the number of aviation personnel licenses from 11,495 in 2020 to 11,801 in 2021. Private Pilot Licenses issued rose by 6.5 per cent to 1,783 in 2021 from 1,674 in 2020. Student Pilot Licenses went up marginally by 3.1 per cent to 3,337 in 2021. There was a slight increase in the number of Valid Operational Licenses from 1,340 in 2020 to 1,365 in 2021. The number of Air Operator Certificates (AOCs) dropped from 84 in 2020 to 78 in 2021. Aircrafts with Valid Certificate of Air Worthiness

(COA) increased by 6.4 per cent to 782 in 2021. The number of Flight Dispatcher Licenses issued dropped by 6.0 per cent from 317 in 2020 to 298 in 2021.

**13.30.** During the period under review, the total number of CAA Inspectors and Air Traffic Controllers reduced marginally from 286 in 2020 to 282 in 2021. The number of Air Worthiness Inspectors dropped from 26 in 2020 to 23 in 2021, while the number of personnel licensing rose from 9 in 2020 to 11 in 2021. The number of flight operations went up from 21 in 2020 to 23 in 2021.

**Table 13.13: Selected Aviation Industry Indicators, 2017 - 2021**

|   | <i>Number</i> |              |               |               |               |
|---|---------------|--------------|---------------|---------------|---------------|
|   | 2017          | 2018         | 2019          | 2020          | 2021*         |
| <b>Aviation Personnel Licenses</b>                      |               |              |               |               |               |
| Air Transport Pilot Licence (ATPL)                      | 1,116         | 1,165        | 1,375         | 1,435         | 1,453         |
| Commercial Pilot Licence (CPL)                          | 1,607         | 1,641        | 1,756         | 1,829         | 1,869         |
| Private Pilot Licence (PPL)                             | 1,316         | 1,349        | 1,351         | 1,674         | 1,783         |
| Student Pilot Licence (SPL)                             | 2,710         | 2,905        | 2,947         | 3,236         | 3,337         |
| Cabin Crew Member Certificate (CMC)                     | 2,090         | 2,140        | 2,270         | 2,448         | 2,464         |
| Aircraft Maintenance Engineers (AMEL)                   | 738           | 775          | 819           | 873           | 895           |
| <b>Total</b>  | <b>9,577</b>  | <b>9,975</b> | <b>10,518</b> | <b>11,495</b> | <b>11,801</b> |
| <b>Valid Operational Licenses</b>                       |               |              |               |               |               |
| Aircraft with Valid Certificate of Air Worthiness (COA) | 749           | 804          | 807           | 735           | 782           |
| Air Operator Certificates (AOCs)                        | 87            | 89           | 90            | 84            | 78            |
| Approved Maintenance Organisations (AMOS)               | 143           | 161          | 69            | 105           | 108           |
| Approved Training Organisations (ATOS)                  | 19            | 22           | 22            | 19            | 19            |
| Flight Dispatcher License                               | 186           | 211          | 311           | 317           | 298           |
| Scheduled Airlines.                                     | 79            | 79           | 79            | 80            | 80            |
| <b>Total</b>  | <b>1,263</b>  | <b>1,366</b> | <b>1,378</b>  | <b>1,340</b>  | <b>1,365</b>  |
| <b>Aerodrome Category</b>                               |               |              |               |               |               |
| International-Class A                                   | 8             | 8            | 8             | 8             | 8             |
| Domestic (Regional)- Class B                            | 23            | 23           | 23            | 23            | 23            |
| Air strips-Class C                                      | 440           | 440          | 440           | 440           | 440           |
| Heliports/Helipads-Class D                              | 20            | 20           | 20            | 20            | 20            |
| <b>Total</b>  | <b>491</b>    | <b>491</b>   | <b>491</b>    | <b>491</b>    | <b>491</b>    |
| <b>CAA Inspectors and Air Traffic Controllers</b>       |               |              |               |               |               |
| Air Traffic Controllers (ATCOs)                         | 177           | 175          | 212           | 206           | 202           |
| Air Worthiness Inspectors                               | 24            | 32           | 25            | 26            | 23            |
| Flight Operations                                       | 21            | 30           | 25            | 21            | 23            |
| Personnel Licensing                                     | 10            | 10           | 11            | 9             | 11            |
| Others  | 25            | 25           | 28            | 24            | 23            |
| <b>Total</b>  | <b>257</b>    | <b>272</b>   | <b>301</b>    | <b>286</b>    | <b>282</b>    |

Source: Kenya Civil Aviation Authority

\* Provisional

## Postal Services

**13.31.** Table 13.14 displays performance of postal services from 2017 to 2021. The number of post offices rose by 8.4 per cent to 623 in 2021. The number of private Courier Operator Outlets and Licensed Courier Operators rose by 14.3 per cent and 9.9 per cent, respectively during the period under review. The number of installed private letter boxes went up by 3.8 per cent from 552 in 2020 to 573 in 2021. The number of rented private letter boxes and private bags went up by 7.3 per cent and 3.0 per cent respectively, from 2020 to 2021.

**13.32.** The volume of Expedited Mail Service (EMS) handled went up by 3.7 per cent from 538 thousand in 2020 to 558 thousand in 2021. A similar percentage rise was observed in both Accepted and Delivered EMS in the same period. There was an 18.0 per cent

drop in the volume of registered and insured items posted from 128 thousand in 2020 to 105 thousand in 2021.

**13.33.** Unregistered correspondence handled dropped by 20.0 per cent from 10 million in 2020 to 8 million in 2021. Notably, domestic correspondence handled dropped by 22.2 per cent while no significant change was recorded in international correspondence handled during the review period. The volume of parcels handled reduced by 10.7 per cent to 50 thousand in 2021. Domestic parcels posted accounted for 67.9 per cent in 2020 compared to 66.0 per cent of all parcels handled in 2021. The number of money orders issued declined by 23.6 per cent from 3,156 thousand in 2020 to 2,412 thousand in 2021.

**Table 13.14: Postal Services, 2017 – 2021**

| Item                                       | Unit     | 2017  | 2018  | 2019  | 2020  | 2021* |
|--|----------|-------|-------|-------|-------|-------|
| Post Offices                               | No.      | 623   | 592   | 585   | 575   | 623   |
| Private Courier Operator Outlets           | No.      | 997   | 1,027 | 666   | 788   | 901   |
| Licensed Courier Operators                 | No.      | 186   | 216   | 229   | 262   | 288   |
| Total Private Letter Boxes:                |          |       |       |       |       |       |
| Installed                                  | '000     | 444   | 549   | 552   | 552   | 573   |
| Rented                                     | '000     | 365   | 373   | 375   | 370   | 397   |
| Private Bags Rented.                       | No.      | 846   | 439   | 531   | 542   | 558   |
| Total EMS Items Handled:                   | '000     | 1,950 | 851   | 898   | 538   | 558   |
| Accepted                                   | '000     | 1,000 | 444   | 572   | 269   | 279   |
| Delivered                                  | '000     | 950   | 407   | 326   | 269   | 279   |
| Total Registered and Insured Items Posted: | '000     | 881   | 696   | 543   | 128   | 105   |
| Domestic                                   | '000     | 745   | 609   | 469   | 93    | 75    |
| International                              | '000     | 136   | 87    | 74    | 35    | 30    |
| Unregistered correspondence handled        | Millions | 61    | 74    | 85    | 10    | 8     |
| Domestic                                   | Millions | 53    | 56    | 62    | 9     | 7     |
| International                              | Millions | 8     | 18    | 23    | 1     | 1     |
| Parcels handled                            | '000     | 68    | 66    | 56    | 56    | 50    |
| Domestic - Posted.                         | '000     | 54    | 38    | 23    | 38    | 33    |
| International - Posted                     | '000     | 14    | 28    | 33    | 18    | 17    |
| Money Orders Issued:                       | '000     | 1,085 | 2,658 | 1,194 | 3,156 | 2,412 |
| Domestic (IFS)                             | '000     | 420   | 260   | 0     | 23    | 18    |
| PostaPay                                   | '000     | 665   | 2,398 | 1,194 | 3,132 | 2,393 |
| Inter-state (IFS)                          | '000     | 0.2   | 0.1   | 0     | 0     | 0     |

Source: Postal Corporation of Kenya/Communication Authority of Kenya

\*Provisional

IFS - International Financial Services

## Storage

### Grain Storage Capacity Available for Leasing

**13.34.** Grain storage capacity leasing available at the National Cereals and Produce Board (NCPB) as at 31st December 2021 is presented in Table 13.15. Uasin Gishu County had the highest storage capacity available for leasing followed by Nakuru and Machakos counties. Tana River and Migori counties had the least storage capacity available for leasing.

**Table 13.15: Grain Storage Capacity<sup>1</sup> Available for Leasing by County as at 31<sup>st</sup> December, 2021**

| County       | <b>Number</b>    |                  |
|--------------|------------------|------------------|
|              | 90 Kg Bag        | 50 Kg Bag        |
| Uasin Gishu  | 365,000          | 657,000          |
| TransNzoia   | 100,000          | 180,000          |
| West Pokot   | 120,000          | 216,000          |
| Embu         | 50,000           | 90,000           |
| Kitui        | 100,000          | 180,000          |
| Laikipia     | 50,000           | 90,000           |
| Baringo      | 70,000           | 126,000          |
| Nakuru       | 210,000          | 378,000          |
| Kisumu       | 50,000           | 90,000           |
| Migori       | 25,000           | 45,000           |
| Homa Bay     | 30,000           | 54,000           |
| Bungoma      | 95,000           | 171,000          |
| Kakamega     | 150,000          | 270,000          |
| Kiambu       | 120,000          | 216,000          |
| Makueni      | 50,000           | 90,000           |
| Kajiado      | 50,000           | 90,000           |
| Machakos     | 188,000          | 338,400          |
| Taita Taveta | 120,000          | 54,000           |
| Tana River   | 25,000           | 45,000           |
| <b>Total</b> | <b>1,968,000</b> | <b>3,380,400</b> |

Source: National Cereals and Produce Board

<sup>1</sup>90 Kg bag and 50kg bag refers to delineation of silos. There are silos that store only 90 kg bags while others store 50kg bags.

### **Container Freight Stations**

**13.35.** The number of Container Freight Stations (CFS) at the Port of Mombasa remained unchanged at 16 in 2021. The CFS operates through the volume of containers handled. The number of TEUs handled by the CFS dropped from 136,695 TEUs in 2020 to 131,979 TEUs in 2021.

### **Developments in the Transport and Storage Sector**

**13.36.** During the review period, the transport sector undertook policy and institutional reforms identified as critical for effective and efficient service delivery. The transport sector began the implementation of the recommendations of the Transport Infrastructure Gap Study.

The objective of the study was to facilitate attainment of a transport system that minimizes the need to travel and enable mobility to ensure that the economic needs of the people are met efficiently and cost effectively. The study assessed the existing infrastructure supply and analyzed its adequacy with respect to the projected growth and socio-economic needs of the country and developed an integrated national transport strategy covering all transport modes and prepared a strategic infrastructure investment plan for Kenya.

**13.37.** The strategy is intended to support all sectors of the economy and enhance regional integration. This is to be achieved by fostering reliability across the transport network and prioritizing connection of marginalized resource deficit areas to resource surplus zones so as to enhance social inclusion and food security.

### **Shipping and Maritime**

**13.38.** The Government under the Port Development Policy and Strategy managed to develop the following during the period under review.

#### **1. Kisumu Port**

Kisumu port was re-opened in June 2021 with rehabilitation having begun in 2019. The Port is expected to boost East African Trade and enhance economic development in the region. Moreover, a

revitalized wagon ferry, and the Kisumu Shipyard were launched to facilitate efficient repair and rehabilitation of ships for use in Lake Victoria.

#### **2. Likoni Floating Bridge**

During the period under review, the Likoni floating bridge, the first of its kind in East Africa, was completed and operationalized. The bridge was constructed to alleviate congestion during peak demand hours. The bridge serves an estimated traffic of 300,000 pedestrians and 6,000 vehicles across the channel via ferries daily.

#### **3. Construction of Second Container Terminal (CT2) Phase II**

Development of CT2 phase II is part of the Mombasa Port Development Project (MPDP), one of the Kenya Vision 2030 flagship projects aimed at expanding container handling capacity of Mombasa Port to remain competitive while boosting the country's economy. Construction of phase II, which is Berth 22, with an additional capacity of 450,000 TEUs, commenced in August 2018 and is expected to be completed by May 2022. Upon completion it will increase the Port of Mombasa's annual capacity from the current 1.65 million TEUs to 2.2 million TEUs by 2022. The project is set to be completed in 2022.

#### **4. Relocation of Kipevu Oil Terminal (KOT)**

The project is about relocation of Kipevu Oil Terminal for safety reasons and to increase handling capacity. The new KOT will have all facilities for off-loading crude oil, refined petroleum, and LPG. Upon completion, the Authority will have a bigger terminal consisting of four berths capable of



**Development of CT2 phase II is part of the Mombasa Port Development Project (MPDP), one of the Kenya Vision 2030 flagship projects aimed at expanding container handling capacity of Mombasa Port to remain competitive while boosting the country's economy**

berthing four vessels of up to 170,000 DWTs at once. Construction of this new KOT commenced in 2018 and is expected to be completed by April 2022.

##### **5. Port of Lamu**

Construction of Lamu Port is a Vision 2030 flagship project identified by the Government of Kenya under the Lamu Port-South Sudan-Ethiopia Transport Corridor (LAPSSET) comprising of 23 berths of 400 metres each and a draft of -17.5 meters creates capacity to handle New Panamax size of vessels of between 12,000 and 14,000 TEUs after acquisition of STSs. The construction of phase 1 (first 3 berths) and yard is complete. The first berth was operationalized on May 20,

2021 and the facility is well equipped to handle cargo operations and has so far received eleven vessels. The project is expected to be completed by April 2022.

##### **Railway Transport**

**13.39.** The Kenya Railways undertook various construction and rehabilitation on the MGR network in 2021. During the review period, 23.35 Kilometres of MGR railway line link between the Inland Container Depot (ICD) Naivasha and Longonot was constructed. Rehabilitation projects included the 465 Kilometres Longonot to Malaba line, 216.7 Kilometres Nakuru to Kisumu line, 77.8 Kilometre Gilgil to Nyahururu line, 69.05 Kilometres Kisumu to Butere line and the 65 Kilometres Leseru to Kitale line.





# Information and Communication Technology

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## Overview

Digital connectivity was accelerated by the COVID-19 crisis as the markets sought alternative means of procuring goods and services. In response to supply disruptions caused by the measures instituted to curb the spread of the pandemic, the sector accelerated innovation which in turn increased the uptake of online services. Consumers and businesses opted for online channels resulting in faster growth of the sector at a time when activities in a number of sectors remained subdued. In 2021, the uptake of most of the ICTs such as mobile telephony services and broadband returned to a modest growth compared to 2020. The value of output from ICT sector rose by 6.9 per cent from KSh 529.8 billion in 2020 to KSh 566.3 billion in 2021.

14.2. Mobile subscriptions increased by 6.0 per cent to 65.1 million in 2021. Total domestic calls increased by 32.8 per cent to 80.0 billion minutes while total international telephone traffic increased by 1.3 per cent to 1.0 billion minutes in 2021. Mobile money subscribers increased by 8.5 per cent to 35.2 million in 2021. The value of mobile commerce, which entails transactions via pay bill and till number platforms, increased from KSh 9.4 billion in 2020 to KSh 15.3 billion in 2021.

14.3. During the review period, utilized bandwidth grew by 20.0 per cent to 4.8 million Megabits per second (Mbps). Total fixed and wireless subscriptions increased by 4.5 per cent to 46.4 million in 2021. Fibre to the home broadband subscriptions increased from 340,271 to 410,762, while the Fibre to the office broadband grew by 11.8 per cent to 67,198 in 2021.

### Value of Output

**14.4.** Details on value of output, intermediate consumption and value added for the ICT sector at current prices is presented in Table 14.1. The value of ICT output increased by 6.9 per cent from KSh 529.8 billion in 2020 to KSh 566.3 billion in 2021. Intermediate consumption increased by 6.6 per cent to KSh 271.9 billion in 2021. Consequently, ICT value added increased by 7.2 per cent from 274.7 billion in 2020 to KSh 294.4 billion in 2021.

**Table 14.1: Value of Output, Intermediate Consumption and Value Added of the ICT Sector, 2017 - 2021**

| KSh Million |                 |                          |             |
|-------------|-----------------|--------------------------|-------------|
| Year        | Value of Output | Intermediate Consumption | Value Added |
| 2017        | 462,013.0       | 238,516.0                | 223,497.0   |
| 2018        | 494,269.0       | 254,149.0                | 240,120.0   |
| 2019        | 522,622.0       | 263,809.0                | 258,813.0   |
| 2020        | 535,514.0       | 262,813.0                | 272,701.0   |
| 2021*       | 566,260.1       | 271,881.1                | 294,379.0   |

\*Provisional

### Fixed Telephone and Mobile Network Services

**14.5.** Details on the performance of the fixed and mobile network services from 2017 to 2021 are presented in Table 14.2. Fixed telephony capacity remained constant while fixed connections continued to register a decline for the quinquennial period, registering a 13.3 per cent drop to 14.8 thousand in 2021. The number of fixed Voice over Internet Pro-

tocol (VoIP) subscribers declined by 6.6 per cent to 46,296 in 2021.

**14.6.** The mobile telephony capacity in erlangs declined from 96.7 million in 2020 to 96.0 million in 2021. The Government increased the spectrum of International Mobile Telecommunications (IMT) from 360 MHz in 2020 to 560 MHz in 2020 with operators utilizing 520 MHz in the review period. Mobile subscriptions increased by 6.0 per cent to 65.1 million in 2021 compared to a 12.6 per cent growth registered in 2020. Conversely, the Mobile Numbers Ported (MNPs) decreased by 24.8 per cent to 1,081 in 2021, partly attributed to hesitation by subscribers to move from one operator to another.

**14.7.** As the use of mobile phones continue to intensify, the connection of mobile networks with machines continue to rise. Machine to machine (M2M) refers to the number of mobile machines to machine subscriptions that are assigned for use in machines and devices for the exchange of data between networked devices. In 2021, machine-to-machine subscribers stood at 1.1 million.

**14.8.** Number of mobile money transfer agents and transactions recorded a steady growth in the last five years. The number of mobile money subscribers increased by 8.5 per cent to 35.2 million in 2021 compared to an increase of 12.0 per cent recorded in 2020. In addition, the total amount of mobile money transfers grew by 31.7 per cent, to stand at KSh 6.9 trillion in 2021. The value of mobile commerce transactions grew by 63.2 per cent to KSh 15.3 trillion in the same period.

**Table 14.2: Fixed and Mobile Network Services, 2017– 2021**

|  | 2017          | 2018          | 2019          | 2020          | 2021*         |
|--|---------------|---------------|---------------|---------------|---------------|
| <b>Fixed Telephony</b>   |               |               |               |               |               |
| Fixed line Capacity ('000) <sup>1</sup>                                      | 144           | 144           | 120           | 121           | 121           |
| <b>Total Connections</b>   |               |               |               |               |               |
| Wireline Connections   | <b>69,897</b> | <b>22,567</b> | <b>21,600</b> | <b>17,069</b> | <b>14,800</b> |
| Wireless Connections <sup>1</sup>  | 69,600        | 21,516        | 20,588        | 16,003        | 13,626        |
| Wireless Connections <sup>1</sup>  | 297           | 1,047         | 1,012         | 1,066         | 1,174         |
| Fixed voice over-IP subscriptions  | 643,109       | 127,915       | 48,794        | 49,577        | 46,296        |
| <b>Mobile Telephony</b>  |               |               |               |               |               |
| Mobile Telephone Capacity ('000)   | 70,000        | 85,950        | 88,700        | 96,700        | 96,030        |
| <b>Spectrum Offered for IMT systems</b>                                      |               |               |               |               |               |
| Block < 1GHz   | ..            | 190           | 190           | 190           | 190           |
| Block 1 GHz - 6 GHz  | ..            | 170           | 170           | 170           | 370           |
| <b>Total amount of spectrum offered in MHz</b>                               | ..            | <b>360</b>    | <b>360</b>    | <b>360</b>    | <b>560</b>    |
| Block < 1GHz   | ..            | 90            | 150           | 150           | 150           |
| Block 1 GHz - 6 GHz  | ..            | 170           | 170           | 170           | 370           |
| <b>Total Spectrum Licensed for IMT systems</b>                               | ..            | <b>260</b>    | <b>320</b>    | <b>320</b>    | <b>520</b>    |
| <b>Connections ('000)</b>  |               |               |               |               |               |
| Post Paid Subscriptions ('000)+  | 42,815        | 49,502        | 54,556        | 61,409        | 65,085        |
| Pre Paid Subscriptions ('000)  | 1,415         | 1,241         | 1,289         | 1,242         | 1,329         |
| Mobile Numbers Ported  | 41,401        | 48,261        | 51,557        | 60,167        | 63,756        |
| Machine to machine (M2M) mobile subscriptions                                | 2,575         | 1,916         | 1,088         | 1,437         | 1,081         |
| Machine to machine (M2M) mobile subscriptions                                | ..            | ..            | ..            | ..            | 1,124,396     |
| <b>Population Network Coverage</b>   |               |               |               |               |               |
| Percentage of the population covered by a mobile-cellular network            | 95            | 95            | 96            | 96            | 96            |
| Percentage of the population covered by at least a 3G mobile network         | 85            | 86            | 93            | 94            | 95            |
| Percentage of the population covered by at least an LTE/WiMAX mobile network | 25            | 35            | 57            | 77            | 94            |
| <b>Mobile Money</b>  |               |               |               |               |               |
| Mobile Money Transfer Agents   | 182,472       | 205,745       | 224,108       | 264,390       | 292,301       |
| Mobile Money Transfer Service Subscribers ('000)                             | 30,005        | 31,627        | 28,976        | 32,460        | 35,209        |
| Total Deposits through Agents (KSh Billion)                                  | 2,194         | 2,464         | 2,584         | 3,231         | 4,666         |
| Total Transfer from Subscriber to Subscriber (KSh Billion)                   | 2,204         | 2,780         | 2,858         | 3,324         | 4,191         |
| Total Transfers, (KSh Billion)   | 3,638         | 3,984         | 4,346         | 5,214         | 6,869         |
| Number of Total Transactions ( Million)                                      | 1,543.2       | 1,739.6       | 1,839.1       | 1,863.3       | 2,165.5       |
| Value of Mobile Commerce Transactions (KSh Billion)                          | 3,246         | 6,077         | 6,957         | 9,392         | 15,324        |
| Number of Mobile Commerce Transactions ('000) <sup>2</sup>                   | 1,400,715     | 2,098,627     | 2,237,837     | -             | -             |

Source: Communications Authority of Kenya/ Central Bank of Kenya

\* Provisional

\* Revised

<sup>1</sup> Includes Local Loop Operators. In addition, the wireless connections were decommissioned in 2015 and recommissioned in 2016

.. Data not available

<sup>2</sup>Number of Mobile commerce transactions were decommissioned in 2020

### Voice Call Traffic

**14.9.** The volume of mobile traffic is critical for monitoring key usage indicators such as voice traffic and SMS traffic. Table 14.3 presents telephone call traffic disaggregated by domestic, international and roaming categories for the period 2017 to 2021. International outgoing calls rose by 11.7 per cent to 549.9 million minutes in 2021, albeit a decline of 49.0 per cent of the fixed outgoing traffic owing to the availability and preference of mobile phones to fixed telephone services. Conversely, the total international incoming calls abated for the second consecutive year from 532.0 million minutes in 2020 to 487.3 million minutes in 2021. This is because international tariffs for incoming calls to Kenya are expensive and therefore the preference for those calling from abroad to prefer other methods such as the instant messaging apps and VOIP.

**14.10.** Voice roaming has been on an upward trend for the last five years. Total voice roaming increased

by 17.5 per cent to 650.6 million minutes. Outbound roaming increased by 38.7 per cent to 474.2 million minutes while inbound roaming decreased by 16.8 per cent to 176.3 million minutes in 2021. Total mobile broadband recovered from the downward trend registered in 2020, increasing by more than double to 382.0 million GB in 2021.

**14.11.** Total domestic traffic, which was predominantly mobile to mobile traffic, increased by 32.8 per cent from 60.3 billion minutes in 2020 to 80.0 billion minutes in 2021. Total traffic emanating from fixed-to-fixed telephone registered a further decline of 6.6 per cent to 1.6 million minutes in the review period. Mobile to mobile traffic grew by 32.9 per cent to 79.9 billion minutes in 2021.

**14.12.** International outgoing fixed Voice over Internet Protocol (VoIP) declined to 2.6 million minutes in 2021 from 2.7 million minutes in 2020.

**Table 14.3: Telephone Call Traffic, 2017 - 2021**

|  | 2017      | 2018      | 2019      | 2020      | Minutes '000<br>2021* |
|--|-----------|-----------|-----------|-----------|-----------------------|
| <b>International Calls</b>                                   |           |           |           |           |                       |
| a. Total International Outgoing Telephone Traffic            | 453,610   | 437,827   | 447,342   | 492,451   | 549,893               |
| International Outgoing Mobile (b+c)                          | 446,760   | 422,012   | 432,421   | 481,955   | 544,535               |
| International Outgoing Fixed                                 | 6,850     | 15,815    | 14,921    | 10,496    | 5,358                 |
| b. Mobile Traffic to East African Countries (EAC)            | 189,167   | 197,133   | 207,326   | 230,272   | 286,385               |
| c. Mobile traffic to other countries                         | 257,593   | 224,879   | 225,095   | 251,683   | 258,150               |
| d. Total International Incoming Telephone Traffic            | 603,110   | 599,523   | 606,687   | 531,985   | 487,310               |
| International Incoming Mobile (e+f)                          | 593,810   | 569,425   | 582,102   | 512,657   | 471,212               |
| International Incoming Fixed                                 | 9,300     | 30,098    | 24,585    | 19,328    | 16,098                |
| e. Mobile Traffic from East African Countries (EAC)          | 184,368   | 265,756   | 320,677   | 285,557   | 267,714               |
| f. Mobile traffic from other countries                       | 409,441   | 303,669   | 261,425   | 227,100   | 203,498               |
| Total International Telephone Traffic (a+d)                  | 1,056,720 | 1,037,351 | 1,054,029 | 1,024,436 | 1,037,203             |
| <b>Voice Roaming</b>   |           |           |           |           |                       |
| (i) Roaming by Home Subscribers Abroad (Out-bound Roaming)   | 161,459   | 192,763   | 240,678   | 341,840   | 474,224               |
| (ii) Roaming by Foreign Subscribers Abroad (Inbound Roaming) | 140,149   | 169,550   | 226,741   | 211,785   | 176,347               |

**Table 14.3: Telephone Call Traffic, 2017 - 2021**

|  | Minutes '000      |                   |                   |                   |                   |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|
|  | 2017              | 2018              | 2019              | 2020              | 2021*             |
| Total Voice Roaming (i+ii)                             | 301,608           | 362,313           | 467,419           | 553,625           | 650,571           |
| <b>Broadband Roaming</b>                               |                   |                   |                   |                   |                   |
| Mobile broadband internet traffic Inbound roaming(GB)  | 65,223            | 140,450           | 221,675           | 84,045            | 221,917           |
| Mobile broadband internet traffic Outbound roaming(GB) | 18,468            | 25,357            | 55,058            | 78,287            | 160,100           |
| <b>Total Mobile broadband roaming</b>                  | <b>83,691</b>     | <b>165,807</b>    | <b>276,733</b>    | <b>162,332</b>    | <b>382,017</b>    |
| <b>Domestic Calls</b>                                  |                   |                   |                   |                   |                   |
| <b>Total Fixed to Fixed Telephone Traffic (a+b)</b>    | 2,597             | 2,345             | 2,291             | 1,717             | 1,604             |
| Fixed wireless to Fixed wireless (a)                   | 1,314             | 1,257             | 1,243             | 997               | 1,092             |
| Fixed to Fixed telephone (b)                           | 1,283             | 1,088             | 1,048             | 720               | 512               |
| Fixed to Mobile telephone                              | 43,353            | 41,586            | 23,210            | 19,753            | 20,916            |
| Mobile to Mobile telephone                             | 43,944,431        | 55,772,953        | 58,646,518        | 60,164,844        | 79,931,242        |
| Mobile to Fixed telephone                              | 88,787            | 71,684            | 58,642            | 65,398            | 66,218            |
| <b>Total Domestic Traffic</b>                          | <b>44,079,168</b> | <b>55,888,568</b> | <b>58,730,661</b> | <b>60,251,712</b> | <b>80,019,980</b> |
| International Outgoing Fixed VoIP                      | 2,865             | 2,883             | 1,662             | 2,737             | 2,644             |

Source: Communications Authority of Kenya

\*Provisional

.. Data not available

### Message Services Traffic

**14.13.** Information on message service traffic is presented in Table 14.4. The total domestic SMS sent declined by 37.2 per cent to 42.8 billion in 2021 compared to an increase of 4.3 per cent registered in 2020. The decline was partly attributed to the few promotional messages offered by the service

providers and the ever-growing usage of instant messaging applications in the review period. International SMS sent and received declined by 23.0 per cent and 4.9 per cent to 28.0 million and 36.1 million in 2021, respectively.

**Table 14.4: Message Service Traffic, 2017 - 2021**

| Messages                   | 2017       | 2018       | 2019       | 2020+      | 2021*      |
|----------------------------|------------|------------|------------|------------|------------|
| Total SMS sent             | 65,719,297 | 63,412,634 | 65,280,461 | 68,112,877 | 42,776,968 |
| Domestic                   | 65,681,804 | 63,376,674 | 65,240,872 | 68,076,554 | 42,749,016 |
| International              | 37,493     | 35,960     | 39,589     | 36,323     | 27,952     |
| International SMS received | 41,390     | 45,955     | 42,144     | 37,894     | 36,055     |

Source: Communication Authority of Kenya

\* Provisional

.. Data not available

## Internet Services

**14.14.** The period under review was characterized by a return to normalcy in the utilization of internet services after the sharp rise in the demand for online services occasioned by the COVID-19 pandemic. The number of licensed Internet Service Providers (ISPs) has been increasing for the quinquennial period so as to meet the ever-growing demand for internet services. In 2021, the number of ISPs rose by 14.8

per cent to 420 as shown in Table 14.5. Similarly, terrestrial mobile subscriptions rose by 4.3 per cent to 45.7 million while wireless data subscriptions increased by 20.4 per cent to 124,759 in 2021. Total fixed-wired internet subscriptions rose by 16.1 per cent to 672,672 with Fibre optic growing by 19.4 per cent to 477,962 in 2021.

**Table 14.5: Internet Providers and Subscriptions, 2017 - 2021**

|  | 2017              | 2018              | 2019              | 2020              | 2021*             |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| Licensed Internet Services Providers (ISPs) <sup>1</sup> | 219               | 256               | 302               | 366               | 420               |
| <b>Total Wireless Internet Subscriptions</b>             | <b>33,166,725</b> | <b>45,401,832</b> | <b>39,229,398</b> | <b>43,812,041</b> | <b>45,682,350</b> |
| Terrestrial Mobile Data                                  | 33,076,894        | 45,333,942        | 39,156,202        | 43,707,173        | 45,556,731        |
| Terrestrial Wireless Data <sup>2</sup>                   | 89,062            | 66,343            | 71,725            | 103,598           | 124,759           |
| Satellite Data   | 769               | 1,547             | 1,471             | 1,270             | 860               |
| <b>Total Fixed (Wired) Internet Subscriptions</b>        | <b>198,472</b>    | <b>303,608</b>    | <b>427,692</b>    | <b>579,449</b>    | <b>672,672</b>    |
| Fixed Digital Subscriber Line (DSL) Data                 | 1,953             | 976               | 751               | 870               | 901               |
| Fixed Fibre Optic Data                                   | 99,643            | 175,824           | 268,753           | 400,355           | 477,962           |
| Fixed Cable Modem (Dial Up) Data                         | 96,876            | 126,808           | 158,188           | 178,224           | 193,809           |
| <b>Total Fixed and Wireless Internet Subscriptions</b>   | <b>33,365,197</b> | <b>45,705,440</b> | <b>39,657,090</b> | <b>44,391,490</b> | <b>46,355,022</b> |

Source: Communications Authority of Kenya

\* Provisional

<sup>1</sup>Also includes Application Service Providers (ASPs)

<sup>2</sup> Includes other fixed wired such as Radio

## Broadband Services

**14.15.** Table 14.6 provides information on broadband services from 2017 to 2021. The bandwidth capacity increased by 34.6 per cent to 10.9 million Mbps in 2021 compared to a 29.5 per cent growth recorded in 2020. This increase in capacity enhanced the networks with resiliency and redundancy to handle the sudden surges and new patterns in internet traffic.

**14.16.** The undersea bandwidth utilization increased by 20.2 per cent to 4.8 million Mbps while satellite bandwidth declined from 2,580 Mbps in 2020 to 2,560 Mbps in 2021.

**14.17.** The total fixed (wired) broadband increased by 16.0 per cent to 673,178 subscriptions in 2021. Fixed broadband subscriptions increased with the exception of other fixed wired broadband in 2021. Subscriptions for Fibre to the Home (FttH), which has the largest share of the total fixed broadband at 61.0 per cent, increased by 20.7 per cent to 410,672 in 2021. Similarly, Fibre to the Office (FttO) subscriptions increased by 11.8 per cent to 67,198 in 2021. Cable modem subscriptions increased by 8.7 per cent to 193,809 in the review period.

**14.18.** Total wireless broadband which was predominantly mobile broadband increased by 13.1 per cent to 28.5 million in 2021. The data only mobile broadband increased by 41.2 per cent to 15.3 million users while data and voice broadband declined by 8.6 per cent to 13.0 million subscriptions in 2021.

All the categories for fixed broadband increased, with the speeds of between 10 Mbps and 30 Mbps having the largest increase from 143,990 in 2020 to 237,280 in 2021. Utilized mobile broadband traffic increased by 46.9 per cent to 810.2 million exabytes in the same period.

**Table 14.6: Broadband Services, 2017 - 2021**

|  | 2017              | 2018              | 2019              | 2020              | 2021*             |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|
| <b>Capacity in Megabits Per Second (Mbps)</b>      |                   |                   |                   |                   |                   |
| Undersea Bandwidth Capacity                        | 3,182,592         | 4,559,850         | 6,241,840         | 8,085,970         | 10,886,200        |
| Satellite Bandwidth Capacity                       | 559               | 5,720             | 5,520             | 5,460             | 5,330             |
| <b>1. Total Available Bandwidth Capacity</b>       | <b>3,183,151</b>  | <b>4,565,570</b>  | <b>6,247,360</b>  | <b>8,091,430</b>  | <b>10,891,530</b> |
| <b>Utilized Bandwidth in Mbps</b>                  |                   |                   |                   |                   |                   |
| Undersea Bandwidth                                 | 916,287           | 1,137,100         | 2,717,560         | 4,008,010         | 4,816,990         |
| Satellite Bandwidth                                | 448               | 5,222             | 2,700             | 2,580             | 2,560             |
| <b>2. Total Utilized Bandwidth</b>                 | <b>916,735</b>    | <b>1,142,322</b>  | <b>2,720,260</b>  | <b>4,010,590</b>  | <b>4,819,550</b>  |
| <b>Broadband Subscriptions</b>                     |                   |                   |                   |                   |                   |
| Copper line (Dial-up, DSL and xDSL)                | 1,953             | 976               | 751               | 835               | 848               |
| Fibre to the Home                                  | 63,276            | 129,979           | 203,038           | 340,271           | 410,762           |
| Fibre to the Office                                | 36,367            | 45,845            | 65,715            | 60,079            | 67,198            |
| Cable modem  | 96,876            | 126,808           | 158,188           | 178,224           | 193,809           |
| Other fixed wired broadband                        | 6,700             | 7,479             | 1,690             | 804               | 561               |
| <b>3. Total Fixed (Wired)- Broadband</b>           | <b>205,172</b>    | <b>311,087</b>    | <b>429,382</b>    | <b>580,213</b>    | <b>673,178</b>    |
| <b>4. Satellite broadband</b>                      | <b>769</b>        | <b>1,547</b>      | <b>1,425</b>      | <b>1,215</b>      | <b>486</b>        |
| <b>5. Terrestrial fixed wireless broadband</b>     | <b>82,362</b>     | <b>58,864</b>     | <b>60,436</b>     | <b>92,746</b>     | <b>107,632</b>    |
| <b>6. Total Active mobile broadband (a+b+c+d)1</b> | <b>16,926,599</b> | <b>21,543,425</b> | <b>21,595,570</b> | <b>25,114,693</b> | <b>28,360,642</b> |
| GSM mobile phones (a)                              | 15,934,100        | 20,518,223        | -                 | -                 | -                 |
| GSM modems (b)                                     | 992,499           | 1,025,202         | -                 | -                 | -                 |
| Data and Voice mobile broadband3 (c)               | -                 | -                 | 14,849,704        | 14,270,593        | 13,044,832        |
| Data only mobile broadband4 (d)                    | -                 | -                 | 6,745,866         | 10,844,100        | 15,315,810        |
| <b>7. Total wireless broadband (4+5+6)</b>         | <b>17,009,730</b> | <b>21,603,836</b> | <b>21,657,431</b> | <b>25,208,654</b> | <b>28,468,760</b> |
| <b>8. Total fixed and wireless broadband (3+7)</b> | <b>17,214,902</b> | <b>21,914,923</b> | <b>22,086,813</b> | <b>25,788,867</b> | <b>29,141,938</b> |
| <b>9. Fixed Broadband by speed<sup>2</sup></b>     |                   |                   |                   |                   |                   |
| <256 Kbps  | 854               | 570               | 9,748             | 10,126            | 9,295             |
| 512 Kbps   | 2,927             | 505               | -                 | -                 | -                 |

**Table 14.6: Broadband Services, 2017 - 2021 (Continued)**

|  | 2017    | 2018    | 2019    | 2020        | 2021*       |
|--|---------|---------|---------|-------------|-------------|
| 1 Mbps   | 14,459  | 8,905   | -       | -           | -           |
| 2 Mbps   | 96,391  | 87,772  | -       | -           | -           |
| > 2 Mbps                                       | 173,672 | 273,746 | -       | -           | -           |
| => 256 Kbps to <2 Mbps                         | -       | -       | 10,693  | 14,743      | 13,027      |
| => 2 Mbps to < 10 Mbps                         | -       | -       | 278,461 | 390,351     | 397,561     |
| => 10 Mbps to < 30 Mbps                        | -       | -       | 104,827 | 143,990     | 237,280     |
| =>30 Mbps to < 100Mbps                         | -       | -       | 94,582  | 121,671     | 136,604     |
| '=> 100Mbps                                    |         |         | 2,594   | 3,436       | 4,524       |
| <b>10. Utilized Mobile and Fixed Broadband</b> |         |         |         |             |             |
| Fixed broadband internet traffic               | -       | -       | -       | 1,195,934   | 1,182,052   |
| Mobile broadband internet traffic              | -       | -       | -       | 551,463,956 | 810,161,628 |

Source: Communications Authority of Kenya

\*Provisional

<sup>1</sup> New categorization starts in 2019 while old category ends in 2018

<sup>2</sup> Fixed broadband speed category has changed in 2019 from the old tier (from 2015 to 2018)

<sup>3</sup> Data and voice mobile-broadband subscriptions refers to subscriptions to mobile broadband services that allow access to the open Internet via HTTP and in which data services are contracted together with voice services (mobile voice and data plans) or as an add-on package to a voice plan. These are typically smartphone-based subscriptions with voice and data services used in the same terminal.

<sup>4</sup> Data-only mobile-broadband subscriptions refers to subscriptions to mobile broadband services that allow access to the open Internet via HTTP and that do not include voice services, i.e. subscriptions that offer mobile broadband as a standalone service, such as mobile-broadband subscriptions for datacards, USB modem/dongle and tablets.

-mean compilation of respective data hadn't commenced/ decommissioned

GSM: Global System for Mobile Communications

CDMA: Code Division Multiple Access

### Tariffs

**14.19.** Table 14.7 presents information on fixed and mobile charges from 2017 to 2021. Installation fees for businesses and residential telephone services increased from KSh 5,496 in 2020 to KSh 5,694 in 2021 owing to the increase in taxes on these ser-

vices. The average price of on-net calls increased by 13.8 per cent to KSh 3.22 while off-net calls increased by 24.4 per cent to KSh 3.82 in 2021. The average price of a message via SMS increased by 7.3 per cent to KSh 1.18 in the same period.

**Table 14.7: Fixed and Mobile Charges, 2017 - 2021**

|  | 2017      | 2018      | 2019      | 2020      | KSh<br>2021* |
|--|-----------|-----------|-----------|-----------|--------------|
| <b>Fixed Charges</b>   |           |           |           |           |              |
| <b>Installation Fees</b>   |           |           |           |           |              |
| Business and Residential Telephone Services                            | 5,496.00  | 5,496.00  | 5,496.00  | 5,496.00  | 5,694.00     |
| Copper Solutions   | 7,000.00  | 7,000.00  | -         | -         | -            |
| Microwave Solutions  | 80,000.00 | 85,000.00 | 65,000.00 | 65,000.00 | 65,000.00    |
| Fibre Solutions  | 7,000.00  | 7,000.00  | 7,000.00  | 7,000.00  | 7,000.00     |
| Monthly Subscription for Residential Telephone Service                 | 580.00    | 580.00    | 580.00    | 580.00    | 580.00       |
| Monthly Subscription for Business Telephone Service                    | 580.00    | 580.00    | 580.00    | 580.00    | 580.00       |
| Average price of a one minute Fixed to Fixed local call                | 5.00      | 5.00      | 5.00      | 5.00      | 3.14         |
| Average price of a one minute Fixed to Mobile local call               | 8.00      | 8.00      | 8.00      | 8.00      | 4.72         |
| <b>Mobile Charges</b>  |           |           |           |           |              |
| Lowest recharge card value   | 5.00      | 5.00      | 5.00      | 5.00      | 5.00         |
| Average price of a one minute Mobile to Mobile local call <sup>1</sup> | 3.00      | -         | -         | -         | -            |
| Average price of a one minute Mobile to Fixed local call <sup>1</sup>  | 3.21      | -         | -         | -         | -            |
| Average price of one on-net call                                       | ..        | 3.00      | 2.83      | 2.83      | 3.22         |
| Average price of one off-net call                                      | ..        | 3.46      | 3.07      | 3.07      | 3.82         |
| Average price of a message via SMS                                     | 1.06      | 1.10      | 1.10      | 1.10      | 1.18         |

Source: Communications Authority of Kenya

\* Provisional

.. Data not available

-Data was decommissioned

<sup>1</sup>Compilation of average prices billed per minute originating from mobile were phased out and compilation of average price of one on-net or off-net calls were introduced in 2018

**14.20.** The average prices of a one-minute call from mobile phones in Kenya to other countries for the period 2017 to 2021 are presented in Table 14.8. The average price of calls from a mobile phone for African countries increased with Burundi having the highest

increment of KSh 5 to stand at KSh 71.67 in 2021. For European countries, United Kingdom recorded the highest increment in calling rates of 40.7 per cent to KSh 25.33 in the same period.

**Table 14.8: Average International Call Rates from Mobile Phone and Fixed Telephone, 2017- 2021**

| Countries                                     | 2017  | 2018  | 2019  | 2020  | KSh per Minute<br>2021* |
|---|-------|-------|-------|-------|-------------------------|
| <b>Calls originating from Mobile</b>          |       |       |       |       |                         |
| Uganda  | 10.00 | 10.00 | 10.00 | 10.00 | 10.67                   |
| Rwanda  | 10.00 | 10.00 | 20.00 | 10.00 | 10.67                   |
| Burundi                                       | 75.00 | 68.33 | 83.33 | 66.67 | 71.67                   |
| Tanzania                                      | 31.67 | 33.33 | 41.67 | 46.67 | 50.00                   |
| Ethiopia                                      | 33.33 | 33.33 | 33.33 | 33.33 | 36.67                   |
| Somalia                                       | 60.00 | 53.33 | 60.00 | 63.33 | 66.67                   |
| South Sudan                                   | 10.00 | 10.00 | 10.00 | 10.00 | 10.67                   |
| South Africa                                  | 18.00 | 22.00 | 26.00 | 30.00 | 33.33                   |
| Other African Countries <sup>1</sup>          | 30.00 | 30.00 | -     | ..    |                         |
| USA   | 5.00  | 5.00  | 5.33  | 5.33  | 5.67                    |
| Germany                                       | 36.67 | 40.00 | 40.00 | 40.00 | 40.00                   |
| Switzerland                                   | 50.00 | 50.00 | 50.00 | 50.00 | 50.00                   |
| Italy   | 50.00 | 50.00 | 50.00 | 50.00 | 50.00                   |
| France  | 36.67 | 40.00 | 40.00 | 40.00 | 40.00                   |
| United Kingdom                                | 18.00 | 18.00 | 18.00 | 18.00 | 25.33                   |
| Other European Countries <sup>1</sup>         | 26.67 | 26.67 | -     | -     | -                       |
| India   | 5.00  | 5.00  | 5.00  | 5.00  | 5.33                    |
| China   | 5.00  | 5.00  | 5.00  | 5.00  | 5.33                    |
| Japan   | 40.00 | 40.00 | 40.00 | 40.00 | 40.00                   |
| <b>Calls originating from Fixed telephone</b> |       |       |       |       |                         |
| USA   | 5.00  | 5.00  | 5.00  | 5.00  | 5.00                    |
| United Kingdom                                | 5.00  | 6.00  | 5.50  | 6.00  | 6.00                    |
| India   | 5.00  | 5.00  | 5.00  | 5.00  | 5.00                    |
| China   | 5.00  | 5.00  | 5.00  | 5.00  | 5.00                    |

Source: Communications Authority of Kenya

\*Provisional

means compilation of respective data hadn't commenced/decommissioned

.. Data not available

<sup>1</sup>Operators changed the pricing for other African and European countries and hence each country has its own rate in 2019

## Registered Kenyan Domains

**14.21.** Table 14.9 and Figure 14.1 presents registered Kenyan domains from 2017 to 2021. For the first time in five years, the number of registered Kenyan domains decreased from 101,123 in 2020 to 94,526 in 2021. The decline was partly attributed to users preferring to use international domains such as dot com which led to fewer subscribers renewing their domain subscriptions. Second Level Domain (SLD) increased by 52.2 per cent from 2,579 domains in 2020 to 3,924 domains in 2021. Personal websites and emails registered the largest increase of 63.7

per cent to 298 domains followed by lower and middle institutions of learning which increased by 19.6 per cent to 1,002 in 2021. The increase of domains especially those in the lower and middle institutions category, was partly attributed to the reopening of schools in 2021 after the relaxation of COVID-19 related restrictions. Domain renewal fees declined by 39.7 per cent to KSh 700 in 2021. The number of registrars increased slightly from 190 in 2020 to 194 in 2021.

**Table 14.9: Registered Kenyan Domains, 2017– 2021**

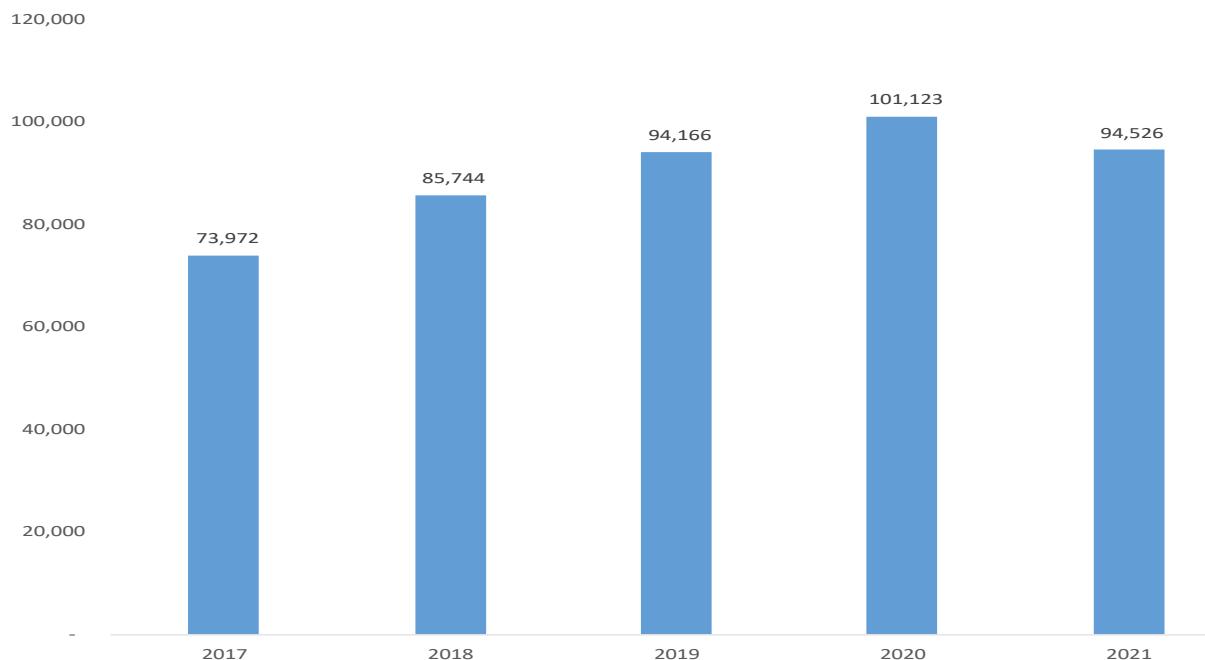
| Domain  | Users                                    | Number        |               |               |                |               |
|---|--|---------------|---------------|---------------|----------------|---------------|
|   |  | 2017          | 2018          | 2019          | 2020           | 2021*         |
| .ac.ke  | Institutions of Higher Education         | 768           | 891           | 889           | 962            | 1,026         |
| .co.ke  | Companies                                | 68,430        | 77,820        | 87,243        | 93,776         | 85,536        |
| .go.ke  | Government entities                      | 414           | 502           | 565           | 606            | 615           |
| .info.ke  | Information e.g. blogs                   | 374           | 443           | 155           | 156            | 144           |
| .me.ke  | Personal websites & email                | 386           | 345           | 219           | 182            | 298           |
| .mobi.ke  | Mobile content                           | 126           | 180           | 40            | 43             | 38            |
| .ne.ke  | Network Devices                          | 466           | 277           | 96            | 51             | 48            |
| .or.ke  | Non profit making organisations or NGO's | 1,981         | 1,976         | 1,831         | 1,930          | 1,895         |
| .sc.ke  | Lower & middle institutions of learning  | 1,027         | 1,212         | 902           | 838            | 1,002         |
| .ke   | Second Level Domain (SLD)                | ..            | 2,098         | 2,226         | 2,579          | 3,924         |
| <b>TOTAL</b>  |  | <b>73,972</b> | <b>85,744</b> | <b>94,166</b> | <b>101,123</b> | <b>94,526</b> |
| Number of Registrars  |  | 372           | 382           | 203           | 190            | 194           |
| Domain renewal fee in KSh   |  | 1,160         | 1,160         | 1,160         | 1,160          | 700           |
| Average annual fee to operate domain (Domain registration fee) in KSh |  | 650           | 650           | 650           | 650            | 700           |
| Second Level Domain Registration and Renewal fee in KSh               |  | ..            | 5,800         | 5,000         | 5,000          | 2,500         |

Source: Kenya Network Information Centre

\* Provisional

.. Data not available

**Figure 14.1: Domain trends in Kenya, 2017-2021**



### **Media Frequencies and Mobile Transceivers**

**14.22.** Information on media frequencies and mobile transceivers from 2017 to 2021 is presented in Table 14.10. The number of TV frequencies increased from 330 in 2020 to 342 in 2021. Radio FM frequencies declined by 5.0 per cent to 953 in 2021.

**14.23.** The total number of digital subscribers continued to increase for the third consecutive year from 5.5 million in 2020 to 6.0 million in 2021. Direct-to-home

satellite had the highest increment of 18.4 per cent to 1.6 million subscribers during the review period.

**14.24.** The number of mobile transceivers increased by 9.7 per cent to 283,376 in 2021. The third generation (3G) increased by 30.0 per cent to 103,822 and accounted for the largest share of transceivers at 54.5 per cent in the period under review.

**Table 14.10: Media Frequencies and Mobile Transceivers, 2017 - 2021**

|   | <i>Number</i>    |                  |                  |                  |                  |
|---|------------------|------------------|------------------|------------------|------------------|
|   | <b>2017</b>      | <b>2018</b>      | <b>2019</b>      | <b>2020</b>      | <b>2021*</b>     |
| TV Frequencies  | 333              | 324              | 327              | 330              | 342              |
| Radio FM Frequencies                                    | 740              | 850              | 917              | 908              | 953              |
| <b>Digital Distributors</b>                             |                  |                  |                  |                  |                  |
| Self-Provisioning Broadcast Signal Distributors         | 3                | 3                | 3                | 3                | 3                |
| Broadcast Signal Distributors                           | 2                | 2                | 2                | 2                | 2                |
| <b>Total Digital Signal Distributors</b>                | <b>5</b>         | <b>5</b>         | <b>5</b>         | <b>5</b>         | <b>5</b>         |
| <b>Digital TV Stations</b>                              | <b>89</b>        | <b>120</b>       | <b>146</b>       | <b>122</b>       | <b>142</b>       |
| Number of Households connected to Cable TV <sup>1</sup> | 296,906          | 290,968          | 290,968          | ..               | ..               |
| <b>Digital Subscriptions</b>                            |                  |                  |                  |                  |                  |
| Cable TV  | 79,938           | 169,698          | 160,200          | 178,224          | 193,809          |
| Direct to Home Satellite                                | 476,225          | 1,110,563        | 1,272,459        | 1,389,839        | 1,645,525        |
| Digital Terrestrial Televisions (STBs)                  | 4,334,166        | 4,512,690        | 3,701,241        | 3,935,960        | 4,169,601        |
| Internet-Protocol TV (IPTV)                             | 18               | 23,076           | 13,765           | 16,303           | 19,126           |
| <b>Total Digital Subscriptions</b>                      | <b>4,890,347</b> | <b>5,816,027</b> | <b>5,147,665</b> | <b>5,520,326</b> | <b>6,028,061</b> |
| <b>Radio Stations</b>                                   |                  |                  |                  |                  |                  |
| English and Kiswahili                                   | 109              | 111              | 127              | 129              | 129              |
| All Vernacular Languages                                | 67               | 67               | 72               | 75               | 75               |
| <b>Total Radio Stations</b>                             | <b>176</b>       | <b>178</b>       | <b>199</b>       | <b>204</b>       | <b>204</b>       |
| Mobile Transceivers by Technology                       | 2G               | 137,560          | 154,250          | 161,867          | 153,318          |
|   | 3G               | 42,716           | 53,557           | 66,990           | 79,847           |
|   | 4G               | 3,873            | 7,469            | 17,744           | 25,191           |
| <b>Total Mobile Transceivers</b>                        | <b>184,149</b>   | <b>215,276</b>   | <b>246,601</b>   | <b>258,356</b>   | <b>283,376</b>   |

Source: Communication Authority of Kenya

\* Provisional

Data not available

STBs- Set Top Boxes

<sup>1</sup>Households connected to cable Tv was decommissioned in 2020

## Employment, Investment and Revenue

**14.25.** Table 14.11 presents details on employment, investment and revenue of telecommunication operators and Internet Service Providers (ISPs) from 2017 to 2021. The number of telecommunication sector employees increased by 5.0 per cent to 9,163 while that of the internet service providers increased by 9.5 per cent to 12,395 in 2021. The increase was primarily driven by the demand for ICT services and the increase in Internet Service Providers (ISPs).

**14.26.** The value of investment by telecommunication operators went up by 28.9 per cent to KSh 45.9 billion while that of ISPs grew by 18.5 per cent to KSh 3.2 billion in 2021. Revenue earned by telecommunication operators grew marginally from KSh 300.9 billion in 2020 to KSh 301.0 billion in 2021.

**Table 14.11: Employment, Investment and Revenue, 2017 - 2021**

|  | Type of Operators                              | 2017  | 2018   | 2019   | 2020   | 2021*  |
|--|--|-------|--------|--------|--------|--------|
| <b>Employment<br/>(Number)</b>                         | Telecommunication Operators <sup>1</sup>       | 6,907 | 7,016  | 8,639  | 8,728  | 9,163  |
|  | Internet Service Providers (ISPs) <sup>2</sup> | 9,031 | 10,803 | 10,035 | 11,315 | 12,395 |
|  | Cable Tv operators                             | ..    | ..     | ..     | 303    | 364    |
| <b>Annual Investment<sup>3</sup><br/>(KSh Billion)</b> | Telecommunication Operators <sup>1</sup>       | 38.7  | 41.5   | 57.5   | 35.6   | 45.9   |
|  | ISPs <sup>2</sup>                              | 1.5   | 2.6    | 2.4    | 2.7    | 3.2    |
| <b>Annual Revenue<sup>3</sup> (KSh<br/>Billion)</b>    | Telecommunication Operators <sup>1</sup>       | 247.3 | 270.5  | 283.2  | 300.9  | 301.0  |
|  | ISPs <sup>2</sup>                              | 21.3  | 29.9   | 36.5   | 40.0   | 64.7   |

\* Provisional

<sup>1</sup> Includes Mobile network operators (MNOs) and Mobile Virtual Network Operators (MVNOs)

<sup>2</sup> Include Application Service Providers (ASPs)

<sup>3</sup> As at June

.. Data available as from 2020

## Information Society

**14.27.** Table 14.12 presents key indicators used for measuring information society for the total population as well as population above 3 years. Fixed telephone lines per 100 inhabitants in total population decreased marginally to 3 users in every 10,000 people in 2021. Mobile cellular penetration grew by 5.03 percentage points to 131.88 subscriptions per 100 inhabitants in 2021 implying that most people had more than one mobile cellular subscription. Bits per second per capita increased by 17.9 per cent to 102.4 thousand Bps in the review period.

**14.28.** For the population three years and above, all indicators except fixed telephone lines improved mainly due to the demand for internet services. Mobile penetration increased by 5.32 percentage points to 142.19 subscriptions per 100 inhabitants in 2021 from 136.87 subscriptions per 100 inhabitants in 2020. Bits per second per capita increased from 93.7 thousand in 2020 to 110.4 thousand while internet subscriptions per 100 inhabitants increased by 2.33 percentage points to 101.27 subscriptions per 100 inhabitants in 2021.

**Table 14.12: Key Indicators for Measuring Information Society, 2017– 2021**

|   | 2017      | 2018      | 2019      | 2020      | 2021*      |
|---|-----------|-----------|-----------|-----------|------------|
| <b>Represents Total Population</b>                            |           |           |           |           |            |
| Fixed telephone lines per 100 inhabitants                     | 0.15      | 0.05      | 0.05      | 0.04      | 0.03       |
| Mobile-cellular telephone subscriptions per 100 inhabitants   | 94.29     | 106.51    | 114.70    | 126.85    | 131.88     |
| Wireless internet subscribers per 100 inhabitants             | 73.04     | 97.69     | 82.62     | 90.50     | 92.57      |
| Internet subscribers per 100 inhabitants (Wireless and Fixed) | 73.48     | 98.34     | 83.38     | 91.70     | 93.93      |
| Bits per second per capita (Bps/person)                       | 21,168.70 | 25,773.45 | 59,969.34 | 86,867.51 | 102,402.20 |
| Broadband subscriptions per 100 inhabitants (wireless)        | 37.46     | 46.49     | 45.53     | 52.07     | 57.69      |
| Broadband subscriptions per 100 inhabitants (Fixed and Wired) | 38.09     | 47.15     | 46.44     | 53.27     | 59.05      |
| Mobile money subscriptions per 100 inhabitants                | 66.08     | 68.05     | 60.92     | 67.05     | 71.34      |
| <b>Represents Population of Three (3) years and above</b>     |           |           |           |           |            |
| Fixed telephone lines per 100 inhabitants                     | 0.17      | 0.05      | 0.05      | 0.04      | 0.03       |
| Mobile-cellular telephone subscriptions per 100 inhabitants   | 102.14    | 115.16    | 123.77    | 136.87    | 142.19     |
| Wireless internet subscribers per 100 inhabitants             | 79.12     | 105.62    | 89.16     | 97.65     | 99.80      |
| Internet subscribers per 100 inhabitants (Wireless and Fixed) | 79.60     | 106.33    | 89.97     | 98.94     | 101.27     |
| Bits per second per capita (Bps/person)                       | 22,932.25 | 27,865.02 | 64,710.08 | 93,733.13 | 110,407.41 |
| Broadband subscriptions per 100 inhabitants (wireless)        | 40.58     | 50.26     | 49.13     | 56.19     | 62.20      |
| Broadband subscriptions per 100 inhabitants (Fixed and Wired) | 41.26     | 50.98     | 50.11     | 51.11     | 52.11      |

\*Provisional

### International Trade in ICT Equipment

**14.29.** International trade in ICT equipment based on the Standard International Trade Classification (SITC) is presented in Table 14.13. The total value of ICT exports went up by 14.3 per cent from KSh 1.4 billion in 2020 to KSh 1.6 billion in 2021. Monitors, projectors and reception apparatus for television had the most increment from KSh 108.6 million in

2020 to KSh 248.5 million in 2021. Total ICT imports have been decreasing for the last 3 years and declined further by 9.4 per cent to KSh 48.3 billion in 2021. Major declines in imports were recorded for telecommunication equipment, monitors, projectors and reception apparatus for television in the review period.

**Table 14.13: International Trade in ICT Equipment, 2017– 2021**

|  | 2017            | 2018            | 2019            | 2020            | KSh Million<br>2021* |
|--|-----------------|-----------------|-----------------|-----------------|----------------------|
| <b>Exports</b>   |                 |                 |                 |                 |                      |
| Office machines  | 80.3            | 154.8           | 70.1            | 81.6            | 63.40                |
| Automatic data processing machines, storage units etc          | 231.8           | 347.0           | 498.8           | 651.4           | 493.60               |
| Part and accessories   | 29.2            | 49.4            | 40.0            | 36.9            | 24.10                |
| Monitors and projectors and reception apparatus for television | 251.6           | 211.7           | 205.8           | 108.6           | 248.51               |
| Reception apparatus for radio broadcasting                     | 10.8            | 22.0            | 17.6            | 11.1            | 16.15                |
| Recording equipments   | 3.0             | 11.3            | 2.0             | 1.8             | 1.23                 |
| Telecommunications equipment                                   | 653.3           | 587.9           | 723.4           | 513.9           | 706.42               |
| <b>Total</b>   | <b>1,260.0</b>  | <b>1,384.1</b>  | <b>1,557.7</b>  | <b>1,405.3</b>  | <b>1,553.41</b>      |
| <b>Imports</b>   |                 |                 |                 |                 |                      |
| Office machines  | 2,194.8         | 2,115.6         | 3,291.3         | 1,006.9         | 1,251.82             |
| Automatic data processing machines, storage units etc          | 25,233.2        | 11,725.2        | 17,955.5        | 14,012.3        | 14,084.75            |
| Part and accessories   | 830.0           | 668.0           | 680.1           | 840.0           | 795.66               |
| Monitors and projectors and reception apparatus for television | 5,857.3         | 8,073.4         | 9,684.7         | 10,735.2        | 8,699.54             |
| Reception apparatus for radio broadcasting                     | 190.6           | 628.5           | 309.7           | 431.7           | 314.70               |
| Recording equipments   | 572.3           | 558.2           | 701.7           | 323.1           | 275.58               |
| Telecommunications equipment                                   | 32,014.7        | 25,512.0        | 26,055.2        | 25,911.6        | 22,924.28            |
| <b>Total</b>   | <b>66,892.9</b> | <b>49,281.1</b> | <b>58,678.2</b> | <b>53,260.8</b> | <b>48,346.33</b>     |

\*Provisional

### Newspaper Circulation and Online Newspaper Readership

**14.30.** Digital transformation has reduced the demand for hard copy prints with online readership continuing to rise as shown in Table 14.14. In the year under review, English daily copies declined by 16.3 per cent to 52.6 million while Kiswahili daily copies went down by 11.9 per cent to 3.0 million. Average online visitors per day however, increased by 11.4 per cent to 4.2 million in 2021.

**Table 14.14: Local Daily/Weekly Newspapers in Circulation, 2017– 2021**

| Newspapers <sup>1</sup>                | 2017             | 2018             | 2019             | 2020             | 2021*            |
|--|------------------|------------------|------------------|------------------|------------------|
| <b>Daily Newspapers</b>                |                  |                  |                  |                  |                  |
| English                                | 89,631           | 87,121           | 77,923           | 62,853           | 52,621           |
| Kiswahili                              | 3,961            | 4,524            | 3,896            | 3,459            | 3,049            |
| <b>Weekly Newspapers</b>               |                  |                  |                  |                  |                  |
| English                                | 12,917           | 12,232           | 11,582           | 9,890            | 8,504            |
| Kiswahili                              | 1,272            | 1,169            | 935              | ..               | ..               |
| <b>Average online visitors per day</b> | <b>2,852,031</b> | <b>2,857,738</b> | <b>2,910,561</b> | <b>3,726,615</b> | <b>4,151,449</b> |

Source: Various Media Houses

\* Provisional

<sup>1</sup>Excludes free newspaper copies

### Cybersecurity

**14.31.** Table 14.15 presents cyber security advisory and reported online crimes from 2017 to 2021. Cybersecurity advisories increased from 81,727 in 2020 to 3.1 million advisories in 2021 owing to the new system to detect cybercrimes installed in the year under review. Total cyber threats more than doubled from 139.9 million in 2020 to 339.1 million in 2021. Out of the cyber threats reported, system vulnerabilities had the highest increment from 114,675 in

2020 to 58.0 million in 2021. Reported Botnet/DDOs threats also increased significantly from 4.1 million in 2020 to 92.1 million in 2021. This was attributed to the growing number of cyber threat actors such as hacktivists, state-sponsored groups, organized cybercriminals, and cyber terrorists who targeted mainly the healthcare systems, utility providers, public infrastructure, insurance firms, schools, government organizations and financial institutions.

**Table 14.15: Cyber Security Advisories and Reported Online Crimes, 2017 - 2021**

| Cyberattacks <sup>1</sup>             | 2017         | 2018              | 2019               | 2020               | Number<br>2021*    |
|---------------------------------------|--------------|-------------------|--------------------|--------------------|--------------------|
| <b>Cyber Security Advisories</b>      |              |                   |                    |                    |                    |
| Malware <sup>2</sup>                  | 231          | 5,452             | 5,951              | 5,810              | 84,739             |
| System vulnerabilities                | 187          | 14,360            | 43,034             | 72,076             | 2,990,361          |
| Botnet/DDoS Attack <sup>3</sup>       | 191          | 563               | 1,568              | 1,128              | 39,673             |
| Online Impersonation                  | 336          | 335               | 285                | 562                | 307                |
| Online abuse                          | 261          | 2,700             | 513                | 262                | 143                |
| Website application attack            | 73           | 1,213             | 1,509              | 1,281              | 28,508             |
| Phishing <sup>4</sup>                 | -            | -                 | 102                | 338                | 185                |
| Online Fraud                          | -            | -                 | 51                 | 270                | 148                |
| <b>Total</b>                          | <b>1,279</b> | <b>24,623</b>     | <b>53,013</b>      | <b>81,727</b>      | <b>3,144,064</b>   |
| <b>Types of Online Crime Reported</b> |              |                   |                    |                    |                    |
| Malware <sup>2</sup>                  | -            | 18,233,047        | 85,416,510         | 124,168,113        | 181,879,153        |
| Botnet/DDoS <sup>3</sup>              | -            | 3,389,880         | 4,407,478          | 4,060,899          | 92,108,268         |
| Web Application Attacks               | -            | 3,842,609         | 10,284,596         | 11,589,947         | 7,033,604          |
| System vulnerabilities                | -            | 9,477             | 93,398             | 114,675            | 58,045,612         |
| <b>Total</b>                          | <b>-</b>     | <b>25,475,013</b> | <b>100,201,982</b> | <b>139,933,634</b> | <b>339,066,637</b> |

Source: Communications Authority of Kenya

\* Provisional

<sup>1</sup> mean compilation of respective data hadnt started compilation

<sup>2</sup>Cyberattacks indicators compilation started in 2017

<sup>2</sup>Refers to a software designed with the intention of damaging services, stealing data etc

<sup>3</sup>Botnets refers to a collection of internet-connected devices whose security been breached. They are used to perform distributed denial of service (DDOS) attack.

<sup>4</sup>Refers to stealing of information through email, telephone or SMS where someone poses as a legit to lure individuals into providing sensitive data such password, Personal Identification Number (PIN) etc

S E C T I O N



Social Scene





# Education and Training

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## Overview

During the review period, terms 2 and 3 for the 2020 school year for basic education continued as scheduled from January 2021 to July 2021. The 2021 school year started in July 2021 and ended in March 2022, while the 2022 school year is expected to start in April 2022 and end in December 2022. Under the revised 2021 school year dates, the Kenya Certificate of Primary Education (KCPE) and Kenya Certificate of Secondary Education (KCSE) examinations were undertaken in March 2022. The Government through the Ministry of Education continued with the implementation of the Competency Based Curriculum (CBC) with the first cohort reaching Grade 5 in 2021 school year. Implementation and advocacy for a full transition to secondary education as well as infrastructure development were enhanced in the review period.

**15.2.** The total expenditure for the education sector is expected to increase by 2.9 per cent to KSh 486.1 billion in 2021/22 financial year, with total recurrent expenditure expected to increase by 4.3 per cent to KSh 476.0 billion over the same period. In Contrast, total development expenditure is expected to reduce 36.2 per cent to 10.1 billion in 2021/22 financial year.

15.3. The total number of schools grew by 1.4 per cent from 88,506 in 2020 school year to 89,747 in 2021 school year. Number of registered pre-primary schools increased from 46,652 in 2020 to 46,671 in 2021. During the review period, the number of primary schools rose by 3.6 per cent to 32,594, mainly attributed to registration of more schools and the reopening of some private schools which were closed during the COVID-19 pandemic. The number of public universities increased to 32 following award of a charter to National Defence University - Kenya.

**15.4.** Enrolment in pre-primary 1 and 2 went up by 12.4 thousand to 2,845.3 thousand in 2021 school year from 2,832.9 thousand in 2020 school year. Total enrolment in primary schools increased by 1.1 per cent to 10,285.1 thousand in 2021 school year. Similarly, total enrolment in secondary schools rose by 4.9 per cent to 3.7 million in 2021. Number of teachers in public primary schools increased by 1.2 per cent to 220,744 in 2021, while number of teachers in public secondary schools and teacher training colleges increased by 6.3 per cent to 120,279 in 2021. Enrolment in Technical and Vocational Education and Training (TVET) institutions rose by 10.4 per cent to 498,326 in 2021. University enrolment is expected to grow from 546.7 thousand in 2020/21 to 562.1 thousand in 2021/22 academic year. The amount of loans and bursaries awarded to students by Higher Education Loans Board (HELB) declined from KSh 15.4 billion in 2019/2020 to KSh 14.4 billion in 2020/2021. In 2021/22, Government funding to universities through the Universities Fund is expected to increase from KSh 41.9 billion in 2020/21 to KSh 43.8 billion in 2021/22.

#### **Expenditure for the Education Sector**

**15.5.** Table 15.1 presents the expenditure for the Ministry of Education, Science and Technology during the financial years 2017/18 to 2021/22. Total expenditure for the education sector is expected to increase by 2.9 per cent to KSh 486.1 billion in 2021/22 financial year. Total recurrent expenditure is expected to increase by 4.3 per cent to KSh 476.0 billion in 2021/22 financial year. The recurrent expenditure for the State Department for University Education is expected to increase from KSh 79.0

billion in 2020/21 to KSh 91.1 billion in 2021/22. The recurrent expenditure for the State Department for Post Training and Skills Development is expected to go up from KSh 122.4 million in 2020/21 to KSh 201.0 million in 2021/22.

**15.6.** Total development expenditure for the education sector is expected to reduce by 36.2 per cent to KSh 10.1 billion in 2021/22. The development expenditure for the State Department for Early Learning and Basic Education is expected to decrease from KSh 6.5 billion in 2020/21 to KSh 5.9 billion in 2021/22. The development expenditure for Teachers Service Commission is expected to increase from KSh 120.2 million in 2020/21 to KSh 322.6 million in 2021/22. The development expenditure for the State Department of University Education is expected to reduce from KSh 4.0 billion in 2020/21 to KSh 1.2 billion in 2021/22, while that for the State Department for Vocational and Technical Training is expected to decrease from KSh 5.2 billion in 2020/21 to KSh 2.7 billion in 2021/22.



**Total development expenditure for the education sector is expected to reduce by 36.2 per cent to KSh 10.1 billion in 2021/22. The development expenditure for the State Department for Early Learning and Basic Education is expected to decrease from KSh 6.5 billion in 2020/21 to KSh 5.9 billion in 2021/22**

**Table 15.1: Expenditure for the Education Sector, 2017/18 - 2021/22**

|   | 2017/18           | 2018/19           | 2019/20+          | 2020/21+          | KSh Million<br>2021/22* |
|---|-------------------|-------------------|-------------------|-------------------|-------------------------|
| <b>RECURRENT EXPENDITURE</b>                              |                   |                   |                   |                   |                         |
| Ministry of Education                                     |                   |                   |                   |                   |                         |
| State Department for Early Learning & Basic Education     | 83,922.18         | 87,966.70         | 84,094.24         | 88,039.02         | 96,420.77               |
| Teachers Service Commission                               | 217,614.31        | 240,738.30        | 255,792.64        | 274,259.78        | 274,286.11              |
| State Department for University Education                 | 87,311.67         | 91,661.66         | 96,846.68         | 79,039.50         | 91,057.22               |
| State Department for Vocational and Technical Training    | 2,511.60          | 7,777.79          | 12,517.11         | 15,098.00         | 13,985.60               |
| State Department for Post Training and Skills Development | ..                | 56.16             | 115.82            | 122.40            | 201.00                  |
| Sub Total   | 391,359.77        | 428,200.60        | 449,366.50        | 456,558.70        | 475,950.70              |
| <b>DEVELOPMENT EXPENDITURE</b>                            |                   |                   |                   |                   |                         |
| Ministry of Education                                     |                   |                   |                   |                   |                         |
| State Department for Early Learning & Basic Education     | 9,064.74          | 7,462.33          | 4,409.01          | 6,470.60          | 5,863.30                |
| Teachers Service Commission                               | 5.94              | 16.69             | 271.64            | 120.15            | 322.55                  |
| State Department for University Education                 | 3,569.62          | 10,155.01         | 6,295.41          | 4,019.07          | 1,230.69                |
| State Department for Vocational and Technical Training    | 8,454.88          | 9,245.20          | 5,344.61          | 5,243.65          | 2,695.69                |
| State Department for Post Training and Skills Development | ..                | ..                | ..                | ..                | ..                      |
| Sub Total   | 21,095.18         | 26,879.24         | 16,320.67         | 15,853.47         | 10,112.23               |
| <b>TOTAL EXPENDITURE</b>                                  | <b>412,454.95</b> | <b>455,079.84</b> | <b>465,687.17</b> | <b>472,412.17</b> | <b>486,062.93</b>       |

### Educational Institutions

**15.7.** The number of educational institutions by category from 2017 to 2021 is shown in Table 15.2. The total number of schools grew by 1.4 per cent from 88,506 in 2020 to 89,747 in 2021. Number of registered pre-primary schools increased from 46,652 in 2020 to 46,671 in 2021. In the same period, the number of primary schools increased by 3.6 per cent to 32,594 in 2021, mainly due to rise in the number of private primary schools at 11.9 per cent. Number of

secondary schools rose by 0.9 per cent from 10,390 in 2020 to 10,482 in 2021. The total number of Technical and Vocational Education and Training (TVET) institutions grew by 4.1 per cent to 2,396 in 2021, while national polytechnics remained at 12 in 2021. During the review period, National Defence University-Kenya was given a charter, thus increasing the number of public universities to 32.

**Table 15.2: Educational Institutions by Category<sup>1</sup>, 2017 – 2021**

| Category                                  | 2017          | 2018          | 2019          | 2020          | Number<br>2021* |
|---|---------------|---------------|---------------|---------------|-----------------|
| Schools:                                  |               |               |               |               |                 |
| Registered Pre-Primary :                  |               |               |               |               |                 |
| Public                                    | 25,381        | 25,589        | 28,383        | 28,505        | 28,585          |
| Private                                   | 16,398        | 16,728        | 18,147        | 18,147        | 18,086          |
| <b>Sub Total</b>                          | <b>41,779</b> | <b>42,317</b> | <b>46,530</b> | <b>46,652</b> | <b>46,671</b>   |
| Primary:                                  |               |               |               |               |                 |
| Public                                    | 23,584        | 24,241        | 23,286        | 23,368        | 23,566          |
| Private                                   | 11,858        | 13,669        | 9,058         | 8,096         | 9,028           |
| <b>Sub Total</b>                          | <b>35,442</b> | <b>37,910</b> | <b>32,344</b> | <b>31,464</b> | <b>32,594</b>   |
| Secondary:                                |               |               |               |               |                 |
| Public                                    | 9,111         | 9,643         | 8,933         | 9,100         | 9,238           |
| Private                                   | 1,544         | 1,756         | 1,530         | 1,290         | 1,244           |
| <b>Sub Total</b>                          | <b>10,655</b> | <b>11,399</b> | <b>10,463</b> | <b>10,390</b> | <b>10,482</b>   |
| <b>Total</b>                              | <b>87,876</b> | <b>91,626</b> | <b>89,337</b> | <b>88,506</b> | <b>89,747</b>   |
| Pre-primary:                              |               |               |               |               |                 |
| Public                                    | 26            | 26            | 26            | ..            | ..              |
| Private                                   | 235           | 240           | 240           | ..            | ..              |
| <b>Sub Total</b>                          | <b>276</b>    | <b>266</b>    | <b>266</b>    | <b>..</b>     | <b>..</b>       |
| Primary:                                  |               |               |               |               |                 |
| Public                                    | 27            | 27            | 27            | 30            | 32              |
| Private                                   | 108           | 110           | 88            | 89            | 26              |
| <b>Sub Total</b>                          | <b>135</b>    | <b>137</b>    | <b>115</b>    | <b>119</b>    | <b>58</b>       |
| Secondary <sup>2</sup>                    | 3             | 3             | 3             | 3             | 3               |
| <b>Total</b>                              | <b>414</b>    | <b>406</b>    | <b>384</b>    | <b>122</b>    | <b>61</b>       |
| TVET Institutions                         |               |               |               |               |                 |
| Public Vocational Training Centres+       | 899           | 982           | 1,149         | 1,156         | 1,156           |
| Private Vocational Training Centres       | 47            | 47            | 47            | 83            | 88              |
| Public Technical and Vocational Colleges  | 91            | 101           | 191           | 230           | 255             |
| Private Technical and Vocational Colleges | 627           | 628           | 742           | 820           | 885             |
| National Polytechnics                     | 11            | 11            | 11            | 12            | 12              |
| <b>Total</b>                              | <b>1,675</b>  | <b>1,769</b>  | <b>2,140</b>  | <b>2,301</b>  | <b>2,396</b>    |
| Universities <sup>3</sup>                 |               |               |               |               |                 |
| Public                                    | 31            | 31            | 31            | 31            | 32              |
| Private                                   | 30            | 32            | 32            | 33            | 33              |
| <b>Total</b>                              | <b>61</b>     | <b>63</b>     | <b>63</b>     | <b>64</b>     | <b>65</b>       |

Source : Ministry of Education/ Council of Governors/TVET Authority

\* Provisional

<sup>1</sup> Data for 2020 is as at March 2020

<sup>2</sup> Public diploma teacher training colleges

<sup>3</sup> Includes public chartered universities, private chartered universities and universities with Letter of Interim Authority

“ Data Not Available

## Pre-Primary Education

**15.8.** Table 15.3 presents pupil enrolment and number of teachers in pre-primary schools from 2017 to 2021. Pupil enrolment in pre-primary 1 and 2 increased from 2,832.9 thousand in 2020 to 2,845.3 thousand in 2021, with enrolment of boys decreasing by 1.0 per cent, while that of girls increased by 1.9 per cent. The number of teachers trained under CBC

reduced by 28.0 per cent from 95,241 in 2020 to 68,599 in 2021 partly due to a new scheme of service developed by county governments which led to the phasing out of teachers who did not meet the required qualifications.

**Table 15.3: Pupil Enrolment and Number of Teachers in Pre-primary Schools, 2017 – 2021**

|                             | 2017             | 2018             | 2019             | 2020             | Number<br>2021*  |
|-----------------------------|------------------|------------------|------------------|------------------|------------------|
| <b>Enrolment</b>            |                  |                  |                  |                  |                  |
| Boys <sup>1</sup>           | 1,681,530        | 1,730,237        |                  |                  |                  |
| Girls <sup>1</sup>          | 1,612,283        | 1,660,308        |                  |                  |                  |
| <b>TOTAL</b>                | <b>3,293,813</b> | <b>3,390,545</b> |                  |                  |                  |
| Boys 2 Pre-Primary 1 and 2  |                  | ..               | 1,393,719        | 1,436,924        | 1,422,247        |
| Girls 2 Pre-Primary 1 and 2 |                  | ..               | 1,344,868        | 1,395,973        | 1,423,018        |
| <b>TOTAL</b>                |                  |                  | <b>2,738,587</b> | <b>2,832,897</b> | <b>2,845,265</b> |
| <b>Trained Teachers</b>     |                  |                  |                  |                  |                  |
| Male                        | 17,746           | 18,703           |                  |                  |                  |
| Female                      | 89,192           | 94,000           |                  |                  |                  |
| <b>Sub Total</b>            | <b>106,938</b>   | <b>112,703</b>   |                  |                  |                  |
| <b>Trained Teachers 3</b>   |                  |                  |                  |                  |                  |
| Male                        | ..               | ..               | 14,634           | 15,584           | 11,225           |
| Female                      | ..               | ..               | 77,725           | 79,657           | 57,374           |
| <b>Sub Total</b>            |                  |                  | <b>92,359</b>    | <b>95,241</b>    | <b>68,599</b>    |
| <b>Untrained Teachers</b>   |                  |                  |                  |                  |                  |
| Male                        | 2,445            | 2,294            | ..               | ..               | ..               |
| Female                      | 8,893            | 8,158            | ..               | ..               | ..               |
| <b>Sub Total</b>            | <b>11,338</b>    | <b>10,452</b>    |                  |                  |                  |
| <b>TOTAL</b>                | <b>118,276</b>   | <b>123,155</b>   | <b>92,359</b>    | <b>95,241</b>    | <b>68,599</b>    |

Source: Ministry of Education/ Council of Governors

\* Provisional

.. data not available

1 Comprises number of pupils enrolled in baby class, middle class and pre-unit under 8.4.4 System

2Comprises of number pupils enroled in pre-primary 1 and 2 under Competency Based Curriculum

3Number of teachers under Competency Based Curriculum

### **Primary Education**

**15.9** Table 15.4 shows primary school enrolment by class and sex from 2017 to 2021. Total enrolment in primary schools increased by 1.1 per cent from 10,170.1 thousand in 2020 to 10,285.1 thousand in 2021 school year. Enrolment of girls increased by 1.3 per cent to 5,041.7 thousand in 2021, while that of boys rose by 1.0 per cent to 5,243.5 thousand over the same period. The enrolment of grade 1 in 2017 was 1,370.3 thousand and those who survived to grade 5 in 2021 were 1,268.2 thousand. Therefore, the survival rate of learners in this cohort was 92.5 per cent, with the survival rate of boys at 92.0 per cent while that of girls stood at 93.1 per cent, in 2021. In the same period, total pupil promotion from Standard 7 to Standard 8 stood at 90.3 per cent. Promotion of boys from Grade 1 to Grade 5 was

89.8 per cent, while that of girls was 90.8 per cent. Enrolment of pupils in Standard 8 increased by 1.1 per cent to 1,177.0 thousand in 2021 from 1,163.8 thousand in 2020.



**Total enrolment in primary schools increased by 1.1 per cent from 10,170.1 thousand in 2020 to 10,285.1 thousand in 2021 school year. Enrolment of girls increased by 1.3 per cent to 5,041.7 thousand in 2021, while that of boys rose by 1.0 per cent to 5,243.5 thousand over the same period**

**Table 15.4: Primary School Enrolment by Class and Sex, 2017– 2021**

| Class        | 2017**         |                |                 |                |                |                 | 2018**         |                |                 |                |                |                 | 2019           |                |                 |      |       |       | 2020 |       |       |      |       |       | 2021* |  |  |  |  |  |
|--------------|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|-----------------|------|-------|-------|------|-------|-------|------|-------|-------|-------|--|--|--|--|--|
|              | Boys           | Girls          | Total           | Boys | Girls | Total | Boys | Girls | Total | Boys | Girls | Total |       |  |  |  |  |  |
| Grade 1      | 705.9          | 664.4          | 1,370.3         | 716.1          | 674.1          | 1,390.2         | 661.0          | 620.1          | 1,281.1         | 647.0          | 609.6          | 1,256.6         | 654.5          | 622.0          | 1,276.5         |      |       |       |      |       |       |      |       |       |       |  |  |  |  |  |
| Grade 2      | 695.7          | 655.2          | 1,350.9         | 704.9          | 663.9          | 1,368.8         | 658.2          | 618.9          | 1,277.1         | 669.4          | 623.7          | 1,293.0         | 672.5          | 635.6          | 1,308.1         |      |       |       |      |       |       |      |       |       |       |  |  |  |  |  |
| Grade 3      | 693.3          | 652.9          | 1,346.2         | 702.4          | 661.6          | 1,364.0         | 637.0          | 605.5          | 1,242.5         | 655.7          | 618.3          | 1,274.0         | 675.2          | 643.2          | 1,318.4         |      |       |       |      |       |       |      |       |       |       |  |  |  |  |  |
| Grade 4      | 694.2          | 665.4          | 1,359.7         | 703.4          | 674.4          | 1,377.8         | 665.8          | 635.6          | 1,301.4         | 641.2          | 605.4          | 1,246.6         | 658.3          | 626.7          | 1,285.1         |      |       |       |      |       |       |      |       |       |       |  |  |  |  |  |
| Grade 5      | 681.1          | 667.5          | 1,348.6         | 690.0          | 676.2          | 1,366.2         | 657.4          | 643.7          | 1,301.2         | 679.6          | 644.8          | 1,324.5         | 649.6          | 618.6          | 1,268.2         |      |       |       |      |       |       |      |       |       |       |  |  |  |  |  |
| Standard 6   | 669.8          | 655.2          | 1,325.0         | 678.5          | 663.8          | 1,342.4         | 650.4          | 645.4          | 1,295.7         | 666.1          | 649.3          | 1,315.4         | 687.4          | 660.8          | 1,348.2         |      |       |       |      |       |       |      |       |       |       |  |  |  |  |  |
| Standard 7   | 656.1          | 652.9          | 1,309.0         | 664.6          | 661.5          | 1,326.1         | 646.3          | 647.8          | 1,294.1         | 651.1          | 645.0          | 1,296.1         | 656.5          | 647.2          | 1,303.7         |      |       |       |      |       |       |      |       |       |       |  |  |  |  |  |
| Standard 8   | 497.7          | 496.3          | 994.0           | 504.3          | 502.8          | 1,007.1         | 529.7          | 549.2          | 1,079.0         | 581.3          | 582.5          | 1,163.8         | 589.4          | 587.6          | 1,177.0         |      |       |       |      |       |       |      |       |       |       |  |  |  |  |  |
| <b>TOTAL</b> | <b>5,293.9</b> | <b>5,109.8</b> | <b>10,403.7</b> | <b>5,364.3</b> | <b>5,178.3</b> | <b>10,542.5</b> | <b>5,105.8</b> | <b>4,966.3</b> | <b>10,072.0</b> | <b>5,191.4</b> | <b>4,978.7</b> | <b>10,170.1</b> | <b>5,243.5</b> | <b>5,041.7</b> | <b>10,285.1</b> |      |       |       |      |       |       |      |       |       |       |  |  |  |  |  |

Source: Ministry of Education

\*Provisional

\*\*Estimates

### Kenya Certificate of Primary Education (KCPE)

**15.10.**Table 15.5 shows the number of examination centres, candidates by sex and mean scores by subject in KCPE from 2017 to 2021. The school calendar is expected to normalize in 2023 during which all the examinations will be undertaken as per the calendar year. The KCPE results reported in this section are for the 2020 and 2021 school years which changed due to the disruption of the school calendar by the COVID-19 pandemic. The number of KCPE examination centres decreased from 28,467 in 2020 to 28,460 in 2021. The number of registered KCPE

candidates grew by 2.4 per cent to 1,225.6 thousand with the number of male candidates increasing by 3.3 per cent to 616,296, while that of female candidates increased by 2.4 per cent to 609,258. The number of candidates who sat for KCPE rose by 3.0 per cent from 1,179.2 thousand in 2020 to 1,214.0 thousand in 2021. In 2021, the mean score for all subjects increased except in English Language, Mathematics, Social Studies, and Religious Education.

**Table 15.5: Number of Examination Centres, Candidates by Sex and Mean Scores by Subject in KCPE1, 2017-2021**

|  | 2017             | 2018             | 2019             | 2020             | 2021*            |
|--|------------------|------------------|------------------|------------------|------------------|
| Examination Centres                    | 26,284           | 27,157           | 27,808           | 28,467           | 28,460           |
| Registered KCPE Candidates             |                  |                  |                  |                  |                  |
| Male                                   | 503,527          | 529,276          | 546,376          | 596,436          | 616,296          |
| Female                                 | 499,919          | 531,495          | 542,610          | 595,180          | 609,258          |
| <b>Total</b>                           | <b>1,003,446</b> | <b>1,060,771</b> | <b>1,088,986</b> | <b>1,191,616</b> | <b>1,225,554</b> |
| Candidates who Sat for KCPE            |                  |                  |                  |                  |                  |
| Male                                   | 498,775          | 529,215          | 543,582          | 590,450          | 610,384          |
| Female                                 | 494,943          | 531,434          | 539,874          | 588,742          | 603,647          |
| <b>Total</b>                           | <b>993,718</b>   | <b>1,060,710</b> | <b>1,083,456</b> | <b>1,179,192</b> | <b>1,214,031</b> |
| Subject                                |                  |                  |                  |                  | Mean Score (%)   |
| English                                |                  |                  |                  |                  |                  |
| English Language                       | 47.63            | 54.69            | 53.47            | 53.51            | 49.07            |
| English Composition                    | 39.60            | 39.39            | 39.91            | 41.56            | 41.70            |
| Kiswahili                              |                  |                  |                  |                  |                  |
| Kiswahili Lugha                        | 48.38            | 51.60            | 44.54            | 51.31            | 52.84            |
| Kiswahili Insha                        | 47.88            | 46.88            | 51.73            | 46.88            | 53.20            |
| Mathematics                            | 51.14            | 43.13            | 49.09            | 54.91            | 49.56            |
| Science                                | 55.61            | 58.96            | 56.79            | 53.33            | 62.95            |
| Social Studies and Religious Education |                  |                  |                  |                  |                  |
| Social Studies                         | 57.22            | 53.89            | 54.25            | 56.46            | 54.62            |
| Religious Education                    | 69.79            | 73.08            | 62.32            | 64.43            | 61.70            |
| National Mean Score                    | 52.16            | 52.70            | 51.51            | 52.80            | 53.21            |

Source: Kenya National Examinations Council

\* Provisional

.. Data not available

<sup>1</sup>KCPE was not done in 2020 but was done in March 2021

**15.11.** Table 15.6 presents the number of registered KCPE special needs candidates by type of disability and sex from 2017 to 2021. The number of registered KCPE special needs candidates went up by 6.5 per cent to 2,854 in 2021. The proportion of male candidates with special needs registered for KCPE in 2021 was 55.5 per cent compared with 56.8 per

cent in 2020. Number of registered candidates who were blind increased by 35.1 per cent, while those who were physically handicappedand those with hearing impairment rose by 7.8 per cent and 9.1 per cent, respectively. The number of candidates with low vision declined by 4.1 per cent to 606, during the review period.

**Table 15.6: Registered KCPE Candidates with Special Needs by Type of Disability and Sex, 2017-2021**

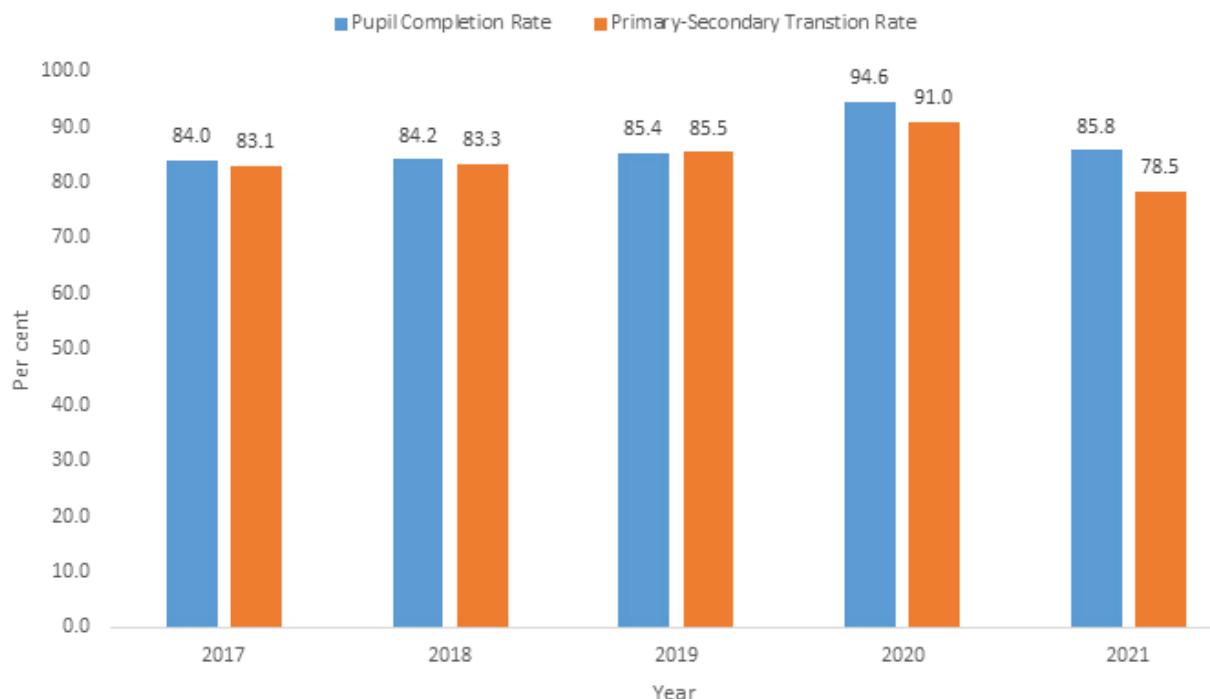
| Type of Disability                  | 2017  |        |       | 2018  |        |       | 2019  |        |       | 2020  |        |       | 2021* |        |       |
|-------------------------------------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|
|                                     | Male  | Female | Total |
| Blind                               | 47    | 40     | 87    | 60    | 44     | 104   | 76    | 50     | 126   | 77    | 34     | 111   | 85    | 65     | 150   |
| Low Vision                          | 296   | 231    | 527   | 319   | 244    | 563   | 325   | 281    | 606   | 359   | 273    | 632   | 344   | 262    | 606   |
| Hearing Impairment                  | 381   | 368    | 749   | 418   | 373    | 791   | 415   | 377    | 792   | 392   | 344    | 736   | 397   | 406    | 803   |
| Physically Handicapped <sup>1</sup> | 425   | 293    | 718   | 590   | 447    | 1,037 | 506   | 384    | 890   | 694   | 507    | 1,201 | 759   | 536    | 1,295 |
| Total                               | 1,149 | 932    | 2,081 | 1,387 | 1,108  | 2,495 | 1,322 | 1,092  | 2,414 | 1,522 | 1,158  | 2,680 | 1,585 | 1,269  | 2,854 |

Source: Kenya National Examinations Council

\* Provisional

<sup>1</sup> Physical handicap only in writing

**15.12.** Figure 15.1 depicts Pupil Completion Rate (PCR) and Primary to Secondary Transition Rate (PSTR) from 2017 to 2021. During the review period, the PCR declined from 94.6 per cent in 2020 to 85.8 per cent, while PSTR declined from 91.0 per cent in 2020 to 78.5 per cent in 2021. The decline in PSTR was partly attributed to retention of learners after admission in Form One. The transition rate presented is based on enrolment of Standard 8 pupils in 2020 and enrolment of Form 1 students in 2021.

**Figure 15.1 Pupil Completion Rate and Primary to Secondary Transition Rate, 2017-2021**

15.13. Table 15.7 presents the number of teachers in public primary schools by qualification or category and sex, from 2017 to 2021. The total number of teachers increased by 1.2 per cent from 218,077 in 2020 to 220,744 in 2021. Number of female teachers rose by 2.0 per cent compared to an increase of 0.4 per cent for male teachers. During the review

period, the number of certificate teachers increased by 3.5 per cent to 184,312, and accounted for 83.5 per cent of all the public primary school teachers. The number of teachers with Bachelor degree and diploma decreased by 2.7 per cent and 14.5 per cent to 17,448, and 18,495 in 2021, respectively.

**Table 15.7: Public Primary School Teachers<sup>1</sup> by Qualification/Category and Sex, 2017–2021**

| “Qualification/<br>Category” | 2017           |                |                | 2018           |                |                | 2019           |                |                | 2020           |                |                | 2021*          |                |                |
|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                              | Male           | Female         | Total          |
| Master and Doctorate Degrees | 201            | 328            | 529            | 192            | 307            | 499            | 188            | 293            | 481            | 197            | 294            | 491            | 191            | 298            | 489            |
| Bachelor Degree Diploma      | 9,043          | 9,669          | 18,712         | 8,730          | 9,434          | 18,164         | 8,576          | 9,315          | 17,891         | 8,627          | 9,303          | 17,930         | 8,351          | 9,097          | 17,448         |
| Certificate                  | 16,491         | 18,164         | 34,655         | 13,272         | 14,461         | 27,733         | 11,561         | 13,043         | 24,604         | 9,821          | 11,811         | 21,632         | 8,207          | 10,288         | 18,495         |
| Contract Teachers            | 80,873         | 83,321         | 164,194        | 82,670         | 87,601         | 170,271        | 84,293         | 91,419         | 175,712        | 84,469         | 93,555         | 178,024        | 86,732         | 97,580         | 184,312        |
| <b>TOTAL</b>                 | <b>106,608</b> | <b>111,482</b> | <b>218,090</b> | <b>104,920</b> | <b>111,809</b> | <b>216,729</b> | <b>104,684</b> | <b>114,076</b> | <b>218,760</b> | <b>103,114</b> | <b>114,963</b> | <b>218,077</b> | <b>103,481</b> | <b>117,263</b> | <b>220,744</b> |

Source: Teachers Service Commission

\* Provisional

..Data not available

<sup>1</sup> Data excludes teachers on unpaid study leave and those with disciplinary cases

Note: “Teachers Service Commission (TSC) implemented the changes in categorization of teachers in public primary and secondary schools and the teacher training colleges into new grades in July 2017

### Secondary Education

15.14. The secondary school enrolment by class and sex from 2017 to 2021 is shown in Table 15.8. Total enrolment in secondary schools rose by 4.9 per cent from 3.5 million in 2020 to 3.7 million in 2021, with enrolment of girls and boys recording growths of 5.7 per cent and 4.1 per cent, respectively. The growths were largely attributed to the implementation of the Government policy of ensuring 100 per cent transition from primary to secondary schools. Cohort analysis shows that learners re-join the education system across all the classes as depicted by the fewer number who join Form One and more learners leaving Form Four.

**Table 15.8: Enrolment in Secondary Schools by Class and Sex1, 2017 – 2021**

| Class        | 2017           |                |                | 2018           |                |                | 2019           |                |                | 2020 <sup>1</sup> |                |                | 2021*          |                |                |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|----------------|----------------|----------------|----------------|----------------|
|              | Boys           | Girls          | Total          | Boys           | Girls          | Total          | Boys           | Girls          | Total          | Boys              | Girls          | Total          | Boys           | Girls          | Total          |
| Form 1       | 405.5          | 396.1          | 801.5          | 414.6          | 411.4          | 826.0          | 423.2          | 438.2          | 861.4          | 487.1             | 494.4          | 981.5          | 450.1          | 462.9          | 913.0          |
| Form 2       | 386.4          | 372.3          | 758.7          | 408.7          | 392.5          | 801.2          | 450.8          | 457.3          | 908.1          | 455.9             | 466.5          | 922.4          | 464.9          | 478.0          | 942.8          |
| Form 3       | 356.0          | 335.7          | 691.7          | 369.4          | 348.5          | 717.9          | 389.0          | 387.9          | 776.9          | 434.8             | 434.1          | 868.9          | 454.3          | 469.9          | 924.2          |
| Form 4       | 303.0          | 275.9          | 578.9          | 312.6          | 285.0          | 597.6          | 363.1          | 350.5          | 713.6          | 373.8             | 373.9          | 747.7          | 453.5          | 458.6          | 912.0          |
| <b>TOTAL</b> | <b>1,450.8</b> | <b>1,380.0</b> | <b>2,830.8</b> | <b>1,505.3</b> | <b>1,437.4</b> | <b>2,942.7</b> | <b>1,626.1</b> | <b>1,634.0</b> | <b>3,260.0</b> | <b>1,751.5</b>    | <b>1,768.9</b> | <b>3,520.4</b> | <b>1,822.7</b> | <b>1,869.3</b> | <b>3,692.0</b> |

Source : Ministry of Education

\* Provisional

1The data for 2020 is as at March 2020

### Kenya Certificate of Secondary Education

**15.15.**Table 15.9 presents number of examination centres and registered candidates by sex from 2017 to 2021 and mean grade in KCSE from 2017 to 2020. The 2021 school year ended in March 2022 and the KCSE results are expected to be released at the beginning of May 2022. The number of KCSE examination centres rose from 10,437 in 2020 to 10,612 in 2021. Over the same period, the number of registered KCSE candidates rose by 10.4 per cent to 830,991, with the number of males and females registering growths of 10.4 per cent and 10.3 per cent, respectively. Males accounted for 51.0 per cent of the total registered KCSE candidates. In 2020 school year, the number of candidates who scored C+ and above increased by 13.8 per cent from 125,835 in 2019 to 143,142. The number of male candidates who scored C+ and above accounted for 10.9 per cent of the total number of candidates. Number of female candidates with C+ and above increased by 15.2 per cent to 61,987 in 2020, while that of male candidates increased by 12.7 per cent to 81,155 in 2020.

**Table 15.9: Number of Examination Centres, Candidates by Sex and KCSE Mean Grade, 2017-2021**

|                               | Year    | Number  |         |         |         |         |         | 2021*   |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|                               |         | 2017    | 2018    | 2019    | 2020    | Male    | Female  |         |
| Number of Examination Centres | 9,701   | 10,078  | 10,289  | 10,437  | 10,612  |         |         |         |
| Registered KCSE Candidates    | 317,570 | 298,021 | 615,591 | 340,978 | 323,502 | 664,480 | 357,079 | 342,627 |
| KCSE Grade                    |         | Male    | Female  | Total   | Male    | Female  | Total   | Male    |
| A                             | 81      | 61      | 142     | 201     | 114     | 315     | 360     | 271     |
| A-                            | 1,813   | 901     | 2,714   | 2,180   | 1,239   | 3,419   | 3,625   | 2,172   |
| B+                            | 4,596   | 2,748   | 7,344   | 5,179   | 3,119   | 8,298   | 8,223   | 5,144   |
| B                             | 7,738   | 4,890   | 12,628  | 10,100  | 6,398   | 16,498  | 14,688  | 9,804   |
| B-                            | 11,631  | 7,754   | 19,385  | 15,666  | 10,681  | 26,347  | 20,401  | 14,977  |
| C+                            | 15,828  | 12,032  | 27,860  | 20,301  | 15,772  | 36,073  | 24,732  | 21,438  |
| C                             | 21,506  | 18,968  | 40,474  | 25,903  | 24,138  | 50,041  | 31,040  | 32,117  |
| C-                            | 31,206  | 29,834  | 61,040  | 35,700  | 35,729  | 71,429  | 40,323  | 43,112  |
| D+                            | 45,522  | 42,925  | 88,447  | 48,628  | 48,237  | 96,865  | 49,930  | 51,863  |
| D                             | 68,572  | 66,978  | 135,550 | 72,878  | 75,419  | 148,297 | 67,974  | 69,841  |
| D-                            | 88,040  | 91,341  | 179,381 | 81,248  | 84,103  | 165,351 | 76,176  | 76,226  |
| E                             | 18,345  | 17,191  | 35,536  | 16,793  | 14,061  | 30,854  | 16,389  | 12,944  |
| Total                         | 314,878 | 295,623 | 610,501 | 334,777 | 319,010 | 653,787 | 353,861 | 339,909 |
|                               |         |         |         |         |         |         |         |         |

Source: Kenya National Examinations Council

\* Provisional

.. Data not available

¹ Number of Candidates who Sat for KCSE by Sex

15.16. The number of registered KCSE special needs candidates by type of disability and sex from 2017 to 2021 is shown in Table 15.10. The number of registered KCSE special needs candidates went up by 13.8 per cent from 1,888 in 2020 to 2,149 in 2021. The number of male candidates registered accounted for 54.2 per cent of the total registered Special Needs Education (SNE) candidates. The number of physically handicapped candidates increased by 25.3 per cent from 711 in 2020 to 891 in 2021, accounting for 41.5 per cent of the total number of special needs candidates. The number of candidates with low vision and hearing impairment increased by 4.6 per cent and 8.7 per cent, respectively in 2021. The number of candidates who were blind increased by 25.3 per cent from 113 in 2020 to 122 in 2021, while the number of female candidates decreased by 12.5 per cent to 49.

**Table 15.10: Number of Registered KCSE Special Needs Candidates by Type of Disability and Sex, 2017-2021**

| Type of Disability                  | 2017       |            |              | 2018       |            |              | 2019       |            |              | 2020         |            |              | 2021*        |            |              |
|-------------------------------------|------------|------------|--------------|------------|------------|--------------|------------|------------|--------------|--------------|------------|--------------|--------------|------------|--------------|
|                                     | Male       | Female     | Total        | Male       | Female     | Total        | Male       | Female     | Total        | Male         | Female     | Total        | Male         | Female     | Total        |
| Blind                               | 52         | 33         | 85           | 62         | 51         | 113          | 70         | 40         | 110          | 57           | 56         | 113          | 73           | 49         | 122          |
| Low Vision                          | 200        | 176        | 376          | 235        | 177        | 412          | 208        | 185        | 393          | 273          | 228        | 501          | 296          | 228        | 524          |
| Hearing Impairment                  | 250        | 183        | 433          | 274        | 187        | 461          | 262        | 256        | 518          | 312          | 251        | 563          | 301          | 311        | 612          |
| Physically Handicapped <sup>1</sup> | 314        | 199        | 513          | 297        | 216        | 513          | 396        | 255        | 651          | 419          | 292        | 711          | 494          | 397        | 891          |
| <b>Total</b>                        | <b>816</b> | <b>591</b> | <b>1,407</b> | <b>868</b> | <b>631</b> | <b>1,499</b> | <b>936</b> | <b>736</b> | <b>1,672</b> | <b>1,061</b> | <b>827</b> | <b>1,883</b> | <b>1,164</b> | <b>985</b> | <b>2,149</b> |

Source: Kenya National Examinations Council

\* Provisional

<sup>1</sup>Physical handicap only in writing**Teachers in Public Secondary Schools and Teachers Training Colleges**

15.17.Table 15.11 shows the total number of teachers in public secondary schools and Teacher Training Colleges from 2017 to 2021. The total number of teachers increased by 6.3 percent to 120,279 in 2021 with that of female and male teachers rising by 7.4 percent and 5.5 per cent, respectively. In 2021, male teachers accounted for 58.0 per cent of the total number of public secondary school and teacher training colleges teachers.Number of teachers with Doctorate and Masters Degree declined by 4.2 per cent to 1,653, while those with Bachelors Degree grew by 7.5 per cent to 116,200 in 2021. Teachers with Bachelors Degree accounted for the largest share of public secondary and Teacher Training Colleges teachers at 96.6 per cent. The number of teachers with diploma declined from 3,310 in 2020 to 2,412 in 2021, which was partly attributed to upgrading of teachers to Bachelors Degree level, and natural attrition.

**Table 15.11: Teachers in Public Secondary Schools and Teacher Training Colleges by Qualification/Category and Sex<sup>1</sup>, 2017–2021**

| Qualification/<br>Category         | 2017          |               |               |               |               |               | 2018          |               |                |               |               |                | 2019          |               |                |      |        |       | 2020 |        |       |      |        |       | 2021* |  |  |  |  |  |
|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|------|--------|-------|------|--------|-------|------|--------|-------|-------|--|--|--|--|--|
|                                    | Male          | Female        | Total         | Male          | Female        | Total         | Male          | Female        | Total          | Male          | Female        | Total          | Male          | Female        | Total          | Male | Female | Total | Male | Female | Total | Male | Female | Total |       |  |  |  |  |  |
| Masters and Doctorate Degrees      | 1,285         | 1,075         | 2,360         | 1,085         | 930           | 2,015         | 1,024         | 896           | 1,920          | 909           | 816           | 1,725          | 870           | 783           | 1,653          |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Bachelors Degree                   | 51,614        | 34,341        | 85,955        | 55,313        | 37,554        | 92,867        | 59,074        | 40,551        | 99,625         | 63,481        | 44,628        | 108,109        | 67,617        | 48,583        | 116,200        |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Post Graduate Diploma in Education | 34            | 18            | 52            | 10            | 6             | 16            | 9             | 6             | 15             | 6             | 5             | 11             | 8             | 6             | 14             |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Diploma                            | 3,643         | 2,814         | 6,457         | 2,343         | 1,969         | 4,312         | 1,951         | 1,663         | 3,614          | 1,763         | 1,547         | 3,310          | 1,297         | 1,115         | 2,412          |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Contract Teachers                  | ..            | ..            | ..            | 54            | 8             | 62            | 52            | 8             | 60             | ..            | ..            | ..             | ..            | ..            | ..             | ..   | ..     | ..    | ..   | ..     | ..    | ..   | ..     | ..    |       |  |  |  |  |  |
| <b>TOTAL<sup>1</sup></b>           | <b>56,576</b> | <b>38,248</b> | <b>94,824</b> | <b>58,805</b> | <b>40,467</b> | <b>99,272</b> | <b>62,110</b> | <b>43,124</b> | <b>105,234</b> | <b>66,159</b> | <b>46,996</b> | <b>113,155</b> | <b>69,792</b> | <b>50,487</b> | <b>120,279</b> |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |

Source : Teachers Service Commission

<sup>\*</sup> Provisional<sup>1</sup> Data not available<sup>1</sup> Data excludes teachers on unpaid study leave and those with disciplinary cases

### Enrolment in Teacher Training Institutions

**15.18.** Table 15.12 shows enrolment in teacher training colleges by year of study and sex from 2017 to 2021. The public Teacher Training Institutions did not admit students in 2019 and 2020 for the P1 course due to the change of policy on qualification from certificate to diploma for teaching in primary schools. During the year under review, the public Teacher Training Institutions admitted pre-service diploma teacher trainees and those upgrading from P1 to diploma. The total number of teacher trainees declined by 8.4 per cent from 17,938 in 2020 to 16,429 in 2021. In 2021, number of upgrade teacher trainees accounted for 59.2 per cent of the total trainees, while pre-service teacher trainees accounted for 32.0 per cent of the total number of teacher trainees. The number of teacher trainees in secondary diploma teacher training colleges went up by 18.9 per cent from 1,218 in 2020 to 1,448 in 2021, mainly on account of an increase in the number of first-year trainees. The number of female and male teacher trainees in diploma training institutions increased by 39.2 and 2.2 per cent, respectively, in the review period.

**Table 15.12: Teacher Trainees Enrolment by Year of Study and Sex, 2017-2021**

| “Type of Institution/ Certification”        | 2017          |               | 2018          |               | 2019          |               | 2020          |              | 2021*         |              |
|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|--------------|
|   | Male          | Female        | Male          | Female        | Male          | Female        | Male          | Female       | Male          | Female       |
| Public primary (P1)/Diploma Pre-Service     | 4,623         | 6,123         | 4,715         | 6,276         | -             | -             | -             | -            | 1,246         | 842          |
| 1st Year                                    | 5,226         | 5,959         | 5,103         | 6,137         | 4,615         | 6,496         | 5,527         | 6,749        | -             | -            |
| 2nd Year                                    | -             | -             | -             | -             | -             | -             | -             | -            | -             | -            |
| 3rd Year                                    | -             | -             | -             | -             | -             | -             | -             | -            | -             | -            |
| Sub-Total (a1)                              | 9,849         | 12,082        | 9,818         | 12,413        | 4,615         | 6,496         | 5,527         | 6,749        | 1,246         | 842          |
| <b>Total Public P1/Diploma Pre-service</b>  | <b>21,931</b> |               | <b>22,231</b> |               | <b>11,111</b> |               | <b>12,276</b> |              | <b>2,088</b>  |              |
| Private primary (P1)/Diploma Pre-service    | 8,418         | 9,449         | 8,435         | 9,527         | 8,593         | 9,996         | 1,846         | 2,598        | 1,167         | 2,003        |
| <b>Total Private P1/Diploma Pre-service</b> | <b>17,867</b> |               | <b>17,962</b> |               | <b>18,589</b> |               | <b>4,444</b>  |              | <b>3,170</b>  |              |
| <b>Sub-Total1 (b1)</b>                      | <b>18,267</b> |               | <b>21,531</b> |               | <b>18,253</b> |               | <b>13,208</b> |              | <b>16,492</b> |              |
| Public primary Diploma Upgrade              | -             | -             | -             | -             | -             | -             | -             | -            | -             | -            |
| 1st Year                                    | -             | -             | -             | -             | -             | -             | -             | -            | -             | 3,593        |
| 2nd Year                                    | -             | -             | -             | -             | -             | -             | -             | -            | -             | -            |
| 3rd Year                                    | -             | -             | -             | -             | -             | -             | -             | -            | -             | -            |
| Sub-Total (a2)                              | -             | -             | -             | -             | -             | -             | -             | -            | -             | -            |
| <b>Total Public Primary Diploma</b>         | <b>0</b>      |               | <b>0</b>      |               | <b>0</b>      |               | <b>0</b>      |              | <b>9,723</b>  |              |
| Private primary Diploma                     | 8,418         | 9,449         | 8,435         | 9,527         | 8,593         | 9,996         | 1,846         | 2,598        | -             | -            |
| <b>Total Private Primary Diploma</b>        | <b>17,867</b> |               | <b>17,962</b> |               | <b>18,589</b> |               | <b>4,444</b>  |              | <b>0</b>      |              |
| <b>Sub-Total1 (b2)</b>                      | <b>18,267</b> |               | <b>21,531</b> |               | <b>18,253</b> |               | <b>13,208</b> |              | <b>16,492</b> |              |
| Diploma (Secondary)                         | -             | -             | -             | -             | -             | -             | -             | -            | -             | -            |
| 1st Year                                    | 453           | 330           | 420           | 302           | 213           | 189           | 121           | 133          | 302           | 373          |
| 2nd Year                                    | 418           | 401           | 319           | 237           | 381           | 273           | 257           | 223          | 130           | 154          |
| 3rd Year                                    | 402           | 329           | 465           | 415           | 453           | 528           | 291           | 193          | 252           | 237          |
| Sub-Total (c)                               | 1,273         | 1,060         | 1,204         | 954           | 1,047         | 990           | 669           | 549          | 684           | 764          |
| <b>Total2</b>                               | <b>19,540</b> | <b>22,591</b> | <b>19,457</b> | <b>22,894</b> | <b>14,255</b> | <b>17,482</b> | <b>8,042</b>  | <b>9,896</b> | <b>6,690</b>  | <b>9,739</b> |
| <b>Grand Total</b>                          | <b>42,131</b> |               | <b>42,351</b> |               | <b>31,737</b> |               | <b>17,938</b> |              | <b>16,429</b> |              |

Source: Ministry of Education

\*Provisional

**Notes**

1. Sub Total1(b1) = Sub Total (a1) + Private primary (P1)/diploma pre-service

2. Sub Total1(b2) = Sub Total (a2) + Private primary (P1)/diploma upgrade

3. Total2 = Sub Total1(b1) + Sub Total1(b2) + Sub Total (c)

4. Diploma Pre-service trainees are new entrants who have never been to college

5. Diploma Upgrade are P1 teachers who are upgrading to Diploma

## Enrolment in TVET Institutions

**15.19.** Information on student enrolment in Technical and Vocational Education and Training (TVET) institutions by sex from 2017 to 2021 is presented in Table 15.13. Overall enrolment in TVET institutions grew by 10.4 per cent from 451.2 thousand in 2020 to 498.3 thousand in 2021. Total male students in TVET institutions accounted for 57.2 per cent of the total enrolment at 284.9 thousand. Enrolment in national polytechnics increased by 11.6 per cent to 97,237 in 2021 compared with a decline of 14.7 per cent in 2020. During the review period, Kisii National

Polytechnic recorded a substantial increase in enrolment from 3,706 in 2020 to 8,617 in 2021. Enrolment in other TVET institutions rose by 10.2 percent to 401.1 thousand in 2021. During the review period, enrolment of students in Vocational Training Colleges increased by 8.9 per cent to 163.0 thousand. Similarly, enrolment of students in Public Technical Training and Private Technical Training institutes increased by 16.0 per cent to 150,927 and 3.4 per cent to 87,157, respectively.

**Table 15.13: Enrolment in TVET Institutions by Sex, 2017 – 2021**

| Institution  | 2017           |                | 2018           |                | 2019           |                | 2020           |                | 2021*          |                | Number |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|
|  | Male           | Female         |        |
| Kenya Technical Training College                       | 1,750          | 1,219          | 1,730          | 1,374          | 4,871          | 2,157          | 2,791          | 2,232          | 1,833          | 1,850          |        |
| Kisumu National Polytechnic                            | 3,608          | 1,887          | 5,137          | 3,113          | 6,407          | 4,349          | 6,212          | 4,303          | 6,135          | 4,536          |        |
| Eldoret National Polytechnic                           | 4,965          | 3,215          | 7,875          | 6,040          | 8,827          | 6,561          | 8,238          | 6,308          | 7,687          | 5,879          |        |
| Meru National Polytechnic                              | 2,727          | 1,990          | 4,730          | 3,113          | 5,810          | 4,155          | 5,440          | 4,016          | 5,874          | 4,102          |        |
| North Eastern National Polytechnic                     | 256            | 200            | 690            | 449            | 898            | 381            | 634            | 409            | 309            | 168            |        |
| Kenya Coast National Polytechnic                       | 822            | 1,318          | 4,033          | 2,957          | 4,107          | 3,011          | 4,787          | 3,039          | 4,904          | 2,545          |        |
| Kitale National Polytechnic                            | 978            | 673            | 2,860          | 1,998          | 3,973          | 2,970          | 4,437          | 3,494          | 6,479          | 4,789          |        |
| Kisii National Polytechnic                             | 2,219          | 1,810          | 3,654          | 3,137          | 5,446          | 4,792          | 1,834          | 1,872          | 4,554          | 4,063          |        |
| Kabete National Polytechnic                            | 2,607          | 1,051          | 7,034          | 3,642          | 11,711         | 6,260          | 6,940          | 4,328          | 7,701          | 4,838          |        |
| Nyeri National Polytechnic                             | 1,874          | 1,282          | 2,625          | 1,807          | 3,709          | 2,926          | 3,393          | 2,704          | 4,191          | 3,625          |        |
| Sigalagala National Polytechnic                        | 2,399          | 1,868          | 4,140          | 3,208          | 4,475          | 4,282          | 4,462          | 3,844          | 4,682          | 4,102          |        |
| Nyandarua National Polytechnic                         | ..             | ..             | ..             | ..             | ..             | ..             | 958            | 440            | 1,587          | 804            |        |
| <b>Sub Total</b>                                       | <b>24,205</b>  | <b>16,513</b>  | <b>44,508</b>  | <b>30,838</b>  | <b>60,234</b>  | <b>41,844</b>  | <b>50,126</b>  | <b>36,989</b>  | <b>55,936</b>  | <b>41,301</b>  |        |
| Total  | 40,718         | 75,346         |                | 102,078        |                | 87,115         |                | 97,237         |                |                |        |
| Other TVET Institutions                                |                |                |                |                |                |                |                |                |                |                |        |
| Public Technical and Vocational Colleges <sup>1</sup>  | 29,584         | 17,982         | 49,454         | 34,948         | 65,347         | 46,763         | 76,416         | 53,648         | 88,642         | 62,285         |        |
| Private Technical and Vocational Colleges <sup>1</sup> | 35,951         | 38,689         | 41,623         | 43,997         | 39,484         | 41,376         | 41,879         | 42,446         | 42,716         | 44,441         |        |
| Vocational Training Colleges <sup>2</sup>              | 59,756         | 44,685         | 66,894         | 47,590         | 81,421         | 54,129         | 89,663         | 60,038         | 97,624         | 65,381         |        |
| <b>Sub Total</b>                                       | <b>125,291</b> | <b>101,356</b> | <b>157,971</b> | <b>126,535</b> | <b>186,252</b> | <b>142,288</b> | <b>207,958</b> | <b>156,132</b> | <b>228,982</b> | <b>172,107</b> |        |
| <b>Total</b>   | <b>226,647</b> | <b>267,365</b> | <b>284,506</b> | <b>328,520</b> | <b>364,090</b> |                |                |                | <b>401,089</b> |                |        |
| <b>Grand Total</b>                                     |                |                |                | <b>359,852</b> |                | <b>430,598</b> |                | <b>451,205</b> |                | <b>498,326</b> |        |

Source: Technical Vocational Education and Training Authority (TVETA)

\* Provisional

<sup>1</sup> Formerly Technical Training Institutes

<sup>2</sup> Formerly Youth Polytechnics

.. Data not available

**University Education**  
 15.20. The number of Government sponsored students to universities and programmes in TVET institutions by the Kenya Universities and Colleges Central Placement Service (KUCCPS) from 2017/18 to 2021/22 is shown in Table 15.14. The number of students placed to undertake degree, diploma, certificate and artisan courses in universities, middle level colleges and TVET institutions is expected to increase by 21.9 per cent from 217,440 in 2020/21 to 265,095 in 2021/22 academic year. This was mainly driven by increased number of students enrolled in TVET institutions. Students' placement at the universities increased by 4.3 per cent to 15.20. The number of Government sponsored students to universities and programmes in TVET institutions by the Kenya Universities and Colleges Central Placement Service (KUCCPS) from 2017/18 to 2021/22 is shown in Table 15.14. The number of students placed to undertake degree, diploma, certificate and artisan courses in universities, middle level colleges and TVET institutions is expected to increase by 21.9 per cent from 217,440 in 2020/21 to 265,095 in 2021/22 academic year. This was mainly driven by increased number of students enrolled in TVET institutions. Students' placement at the universities increased by 4.3 per cent to 128,083 in 2021/22, and accounted for 48.3 per cent of all students sponsored by the Government. Placement at middle level colleges and TVET institutions rose by 44.8 per cent to 137,012 in 2021/22, constituting 51.7 percent of all student placements sponsored by Government. In 2021/22 academic year, total placement of female students rose by 25.1 per cent to 130,970, while that of male students rose by 19.0 per cent to 134,122. In the review period, the number of students placed to pursue certificate and artisan courses increased by 28.9 per cent to 40,876 and 53.2 per cent to 9,869, respectively.

**Table 15.14: Government Sponsored Students Placed to Universities and TVET Institutions by Programme and Sex, 2017/2018 - 2021/2022**

| Programme            | 2017/18       |               |                | 2018/19       |               |                | 2019/20        |               |                | 2020/21        |                |                | 2021/22*       |                |                | Number |
|----------------------|---------------|---------------|----------------|---------------|---------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------|
|                      | Male          | Female        | Total          | Male          | Female        | Total          | Male           | Female        | Total          | Male           | Female         | Total          | Male           | Female         | Total          |        |
| Degree               |               |               |                |               |               |                |                |               |                |                |                |                |                |                |                |        |
| Public Universities  | 39,487        | 31,474        | 70,961         | 33,163        | 22,731        | 55,894         | 42,939         | 29,038        | 71,977         | 55,373         | 39,702         | 95,075         | 56,520         | 41,989         | 98,509         |        |
| Private Universities | 10,409        | 6,953         | 17,362         | 7,346         | 5,310         | 12,656         | 9,672          | 7,839         | 17,511         | 14,677         | 13,079         | 27,756         | 15,217         | 14,357         | 29,574         |        |
| <b>Sub-Total</b>     | <b>49,896</b> | <b>38,427</b> | <b>88,323</b>  | <b>40,509</b> | <b>28,041</b> | <b>68,550</b>  | <b>52,611</b>  | <b>36,877</b> | <b>89,488</b>  | <b>70,050</b>  | <b>52,781</b>  | <b>122,831</b> | <b>71,737</b>  | <b>56,346</b>  | <b>128,083</b> |        |
| <b>TVET</b>          |               |               |                |               |               |                |                |               |                |                |                |                |                |                |                |        |
| Diploma              | 14,110        | 14,151        | 28,261         | 31,530        | 25,954        | 57,484         | 35,024         | 29,515        | 64,539         | 26,165         | 30,290         | 56,455         | 40,997         | 45,267         | 86,267         |        |
| Certificate          | 0             | 0             | 0              | 16,425        | 16,095        | 32,520         | 20,896         | 22,766        | 43,662         | 13,531         | 18,181         | 31,712         | 17,061         | 23,815         | 40,876         |        |
| Artisan              | 0             | 0             | 0              | 2,802         | 2,096         | 4,898          | 4,264          | 3,458         | 7,722          | 2,965          | 3,477          | 6,442          | 4,327          | 5,542          | 9,869          |        |
| <b>Sub-Total</b>     | <b>14,110</b> | <b>14,151</b> | <b>28,261</b>  | <b>50,757</b> | <b>44,145</b> | <b>94,902</b>  | <b>60,184</b>  | <b>55,739</b> | <b>115,923</b> | <b>42,661</b>  | <b>51,948</b>  | <b>94,609</b>  | <b>62,385</b>  | <b>74,624</b>  | <b>137,012</b> |        |
| <b>Grand Total</b>   | <b>64,006</b> | <b>52,578</b> | <b>116,584</b> | <b>91,266</b> | <b>72,186</b> | <b>163,452</b> | <b>112,795</b> | <b>92,616</b> | <b>205,411</b> | <b>112,711</b> | <b>104,729</b> | <b>217,440</b> | <b>134,122</b> | <b>130,970</b> | <b>265,095</b> |        |

Source: Kenya Universities and Colleges Central Placement Service (KUCCPS)

\*Provisional

**15.21.** Enrolment of students in universities from 2018/19 to 2021/22 academic years is presented in Table 15.15. Overall, university enrolment is expected to expand from 546.7 thousand in 2020/21 to 562.1 thousand in 2021/22 academic year, an increase of 2.8 per cent. The expansion in university enrolment is on anticipated rise in the number of Government sponsored students placed in both public and private universities by KUCCPS. Total enrolment in public universities is expected to decrease from 452.1 thousand in 2020/21 to 448.5 thousand in 2021/22

academic year. The reduction is partly attributed to delayed registration of students, transfer of some students to private universities and interruptions associated with COVID-19 pandemic in 2020/21. During the period under review, enrolment in public universities constituent colleges is expected to rise by 40.7 per cent to 13.5 thousand in 2021/22. In the same period, enrolment in private universities is expected to increase by 20.0 per cent to 113.6 thousand.

**Table 15.15: University Enrolment<sup>1</sup> by Sex, 2018/19 – 2021/22**

| INSTITUTION                                | Number   |        |         |        |         |        |          |        |
|--|----------|--------|---------|--------|---------|--------|----------|--------|
|  | 2018/19+ |        | 2019/20 |        | 2020/21 |        | 2021/22* |        |
|  | Male     | Female | Male    | Female | Male    | Female | Male     | Female |
| <b>Public Universities</b>                 |          |        |         |        |         |        |          |        |
| University of Nairobi                      | 50,061   | 20,454 | 47,222  | 15,741 | 42,556  | 12,932 | 36,556   | 11,137 |
| Kenyatta                                   | 34,270   | 30,329 | 32,592  | 25,727 | 38,425  | 31,227 | 38,357   | 31,866 |
| Moi  | 16,682   | 15,314 | 15,228  | 13,716 | 15,177  | 13,428 | 14,497   | 12,160 |
| Egerton                                    | 8,972    | 6,320  | 9,710   | 7,136  | 10,340  | 7,649  | 10,967   | 7,982  |
| Jomo Kenyatta (JKUAT)                      | 21,421   | 16,319 | 19,554  | 14,616 | 21,740  | 15,004 | 18,243   | 13,469 |
| Maseno                                     | 9,762    | 7,455  | 10,782  | 8,126  | 13,064  | 9,787  | 13,056   | 9,715  |
| Masinde Muliro                             | 11,802   | 8,240  | 11,261  | 7,771  | 10,435  | 8,220  | 9,366    | 6,551  |
| Technical University of Kenya <sup>+</sup> | 9,142    | 3,447  | 5,823   | 2,782  | 8,695   | 3,372  | 6,894    | 2,937  |
| Technical University of Mombasa            | 6,430    | 2,595  | 6,768   | 2,515  | 7,231   | 2,769  | 7,316    | 2,847  |
| Dedan Kimathi                              | 4,607    | 2,063  | 5,346   | 2,515  | 5,418   | 2,628  | 5,874    | 2,956  |
| Chuka                                      | 7,505    | 5,643  | 7,791   | 5,526  | 7,548   | 5,197  | 8,935    | 6,419  |
| Karatina                                   | 3,565    | 2,781  | 3,471   | 2,652  | 3,436   | 2,657  | 3,916    | 2,942  |
| Kisii                                      | 8,072    | 6,188  | 7,140   | 4,652  | 10,157  | 6,562  | 10,983   | 7,454  |
| Meru                                       | 3,177    | 1,620  | 3,198   | 1,745  | 4,866   | 2,657  | 5,396    | 2,829  |
| Multimedia                                 | 3,296    | 1,996  | 3,110   | 1,921  | 3,598   | 2,122  | 3,404    | 2,051  |
| South Eastern University of Kenya          | 4,767    | 3,283  | 4,618   | 2,981  | 4,870   | 3,224  | 5,367    | 3,199  |
| Jaramogi Oginga Odinga                     | 5,881    | 3,433  | 5,103   | 2,988  | 4,266   | 2,390  | 5,300    | 2,947  |
| Laikipia                                   | 4,015    | 3,447  | 3,152   | 2,705  | 4,435   | 3,632  | 3,979    | 3,400  |
| University of Eldoret                      | 7,586    | 5,945  | 7,028   | 5,773  | 8,070   | 6,625  | 5,343    | 4,564  |
| Kabianga                                   | 3,838    | 3,401  | 3,720   | 3,166  | 3,512   | 2,970  | 3,695    | 2,952  |

**Table 15.15: University Enrolment<sup>1</sup> by Sex, 2018/19 – 2021/22 (Continued)**

| INSTITUTION                                  | Number         |                |                |                |                |                |                |                |
|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|  | 2018/19*       |                | 2019/20        |                | 2020/21        |                | 2021/22*       |                |
|  | Male           | Female         | Male           | Female         | Male           | Female         | Male           | Female         |
| Pwani  | 3,919          | 2,894          | 3,593          | 2,669          | 3,943          | 2,690          | 5,167          | 3,743          |
| Masai Mara                                   | 4,363          | 3,809          | 4,557          | 3,981          | 4,657          | 3,864          | 5,788          | 4,776          |
| Kibabii                                      | 4,226          | 2,020          | 3,676          | 2,600          | 4,898          | 3,418          | 4,455          | 3,036          |
| University of Embu                           | 3,624          | 2,563          | 4,028          | 2,799          | 4,861          | 3,266          | 5,783          | 3,917          |
| Machakos                                     | 4,502          | 2,978          | 4,242          | 2,667          | 5,667          | 3,695          | 5,589          | 3,690          |
| Murang'a                                     | 2,734          | 1,429          | 3,724          | 2,020          | 4,471          | 1,830          | 4,823          | 1,976          |
| Rongo  | 2,839          | 2,154          | 3,650          | 2,381          | 3,509          | 2,409          | 3,760          | 2,674          |
| Kirinyaga                                    | 2,004          | 1,275          | 2,991          | 1,620          | 4,762          | 2,363          | 6,493          | 2,959          |
| Co-operative                                 | 1,402          | 1,466          | 1,951          | 1,919          | 2,355          | 2,346          | 2,234          | 2,499          |
| Taita Taveta                                 | 1,979          | 800            | 2,108          | 966            | 2,263          | 1,046          | 2,235          | 1,178          |
| Garissa                                      | 929            | 372            | 1,031          | 530            | 884            | 394            | 253            | 119            |
| University Constituent Colleges <sup>2</sup> | 2,142          | 1,698          | 3,382          | 2,384          | 5,505          | 4,102          | 7,877          | 5,637          |
| <b>SUB-TOTAL<sup>3</sup></b>                 | <b>259,514</b> | <b>173,731</b> | <b>251,550</b> | <b>161,290</b> | <b>275,614</b> | <b>176,475</b> | <b>271,901</b> | <b>176,581</b> |
| Private Universities                         | 46,764         | 39,453         | 51,494         | 45,134         | 50,257         | 44,353         | 62,560         | 51,024         |
| <b>GRAND TOTAL<sup>1</sup></b>               | <b>519,462</b> |                | <b>509,468</b> |                | <b>546,699</b> |                | <b>562,066</b> |                |

Source: Individual Universities/ Commission for University Education

\* Provisional

<sup>1</sup> Enrolment excludes Diploma/Certificate students

<sup>2</sup> Includes Kaimosi, Alupe, Turkana, Tom Mboya, Tharaka-Nithi, Bomet and Koitalel

<sup>3</sup> Total excludes enrolment from National Defence University -Kenya

**15.22.** Students enrolled for diploma and certificate courses in public and private universities from 2019/20 to 2021/22 academic years is shown in Table 15.16. Overall, number of students enrolled in diploma and certificate courses is expected to grow by 5.5 per cent from 55,351 in 2020/21 to 58,414

in 2021/22. Enrolment of students for diploma and certificate courses in public universities is expected to go down by 14.3 per cent to 31,917 in 2021/22, while that of private universities is expected to substantially increase by 46.3 per cent to 26,497, over the same period.

**Table 15.16: University Enrolment of Diploma and Certificate Courses Students by Sex, 2019/20 – 2021/22**

| INSTITUTION  | Number        |               |               |               |               |               |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
|  | 2019/20       |               | 2020/21       |               | 2021/22*      |               |
|  | Male          | Female        | Male          | Female        | Male          | Female        |
| <b>Public Universities</b>                         |               |               |               |               |               |               |
| University of Nairobi                              | 3,187         | 251           | 2,328         | 111           | 1,417         | 52            |
| Kenyatta   | 3,261         | 2,734         | 2,989         | 2,631         | 1,174         | 1,345         |
| Moi  | 317           | 384           | 146           | 126           | 89            | 43            |
| Egerton  | 445           | 380           | 365           | 375           | 123           | 94            |
| Jomo Kenyatta (JKUAT)                              | 846           | 345           | 794           | 378           | 573           | 457           |
| Maseno   | 432           | 580           | 472           | 596           | 93            | 99            |
| Masinde Muliro                                     | 76            | 39            | 15            | 16            | 1,541         | 1,249         |
| Technical University of Kenya                      | 1,584         | 1,200         | 1,457         | 2,881         | 3,044         | 2,054         |
| Technical University of Mombasa                    | 1,396         | 914           | 5,328         | 3,447         | 1,160         | 708           |
| Dedan Kimathi                                      | 360           | 201           | 379           | 280           | 233           | 173           |
| Chuka  | 1,057         | 1,147         | 1,149         | 1,238         | 833           | 948           |
| Karatina   | 107           | 92            | -             | -             | 829           | 935           |
| Kisii  | 801           | 821           | 660           | 568           | 372           | 443           |
| Meru   | 318           | 118           | 622           | 299           | 700           | 412           |
| Multimedia   | 395           | 422           | 427           | 438           | 469           | 609           |
| South Eastern Kenya University                     | 15            | 4             | 14            | 4             | 88            | 49            |
| Jaramogi Oginga Odinga                             | 183           | 410           | 86            | 234           | 272           | 180           |
| Laikipia   | 107           | 87            | -             | -             | -             | -             |
| University of Eldoret                              | 115           | 199           | 73            | 150           | 101           | 190           |
| Kabianga   | 124           | 147           | 111           | 124           | 194           | 76            |
| Pwani  | 45            | 48            | 88            | 76            | 88            | 71            |
| Masai Mara   | 131           | 154           | 72            | 108           | 188           | 243           |
| Kibabii  | 218           | 256           | 382           | 436           | 67            | 112           |
| University of Embu                                 | 207           | 267           | 190           | 250           | 310           | 314           |
| Machakos   | 373           | 315           | 318           | 350           | 697           | 447           |
| Murang'a   | 95            | 59            | 132           | 107           | 353           | 280           |
| Rongo  | 508           | 415           | 137           | 189           | 127           | 210           |
| Kirinyaga  | 60            | 70            | 24            | 42            | 16            | 10            |
| Co-operative                                       | 493           | 535           | 1,361         | 785           | 2,608         | 1,663         |
| Taita Taveta                                       | 346           | 245           | 36            | 19            | 30            | 27            |
| Garissa  | 282           | 161           | 239           | 145           | 15            | 6             |
| <b>University Constituent Colleges<sup>1</sup></b> | <b>224</b>    | <b>198</b>    | <b>198</b>    | <b>249</b>    | <b>283</b>    | <b>331</b>    |
| <b>SUB-TOTAL</b>                                   | <b>18,108</b> | <b>13,198</b> | <b>20,592</b> | <b>16,652</b> | <b>18,087</b> | <b>13,830</b> |
| Private Universities                               | 13,504        | 14,375        | 8,828         | 9,279         | 12,204        | 14,293        |
| <b>GRAND TOTAL</b>                                 | <b>59,185</b> |               | <b>55,351</b> |               | <b>58,414</b> |               |

Source: Individual Universities/ Commission for University Education

\* Provisional

<sup>1</sup> Includes Kaimosi, Alupe, Turkana, Tom Mboya, Tharaka-Nithi and Bomet

### Registration of Universities and Other Institutions Offering Degree Programmes

15.23. Table 15.17 presents registration of universities and other institutions offering degree programmes by category from 2017 to 2021. The number of public chartered universities increased from 31 in 2020 to 32 in 2021, following awarding of a charter to National Defence University-Kenya. Similarly, the number of

public university constituent colleges went up from 7 in 2020 to 9 in 2021. In 2021, the number of chartered private universities increased to 21, while the number of universities with Letters of Interim Authority (LIA) reduced to 12.

**Table 15.17: Registration of Universities and Other Institutions Offering Degree Programmes by Category, 2017-2021**

| Category of Institutions                      | Number |      |      |      |       |
|---|--------|------|------|------|-------|
|   | 2017   | 2018 | 2019 | 2020 | 2021* |
| <b>Public</b>                                 |        |      |      |      |       |
| Chartered universities                        | 31     | 31   | 31   | 31   | 32    |
| University constituent colleges               | 5      | 6    | 6    | 7    | 9     |
| University campuses                           | 168    | 111  | 64   | 64   | 64    |
| Other Institutions <sup>1</sup>               | 2      | 3    | 4    | 1    | 2     |
| <b>Private</b>                                |        |      |      |      |       |
| Chartered universities                        | 18     | 18   | 19   | 20   | 21    |
| Universities with Letter of Interim Authority | 12     | 14   | 13   | 13   | 12    |
| University constituent colleges               | 5      | 5    | 5    | 3    | 3     |
| Newly registered universities                 | -      | -    | -    | -    | -     |
| Other Institutions <sup>1</sup>               | 2      | 3    | 3    | 3    | 3     |

Source: Commission for University Education

\* Provisional

<sup>1</sup> Institutions approved for collaboration with universities in offering university programmes

**15.24.** The number of approved programmes by category of institution from 2017 to 2021 is shown in Table 15.18. The number of approved public university programmes rose from 3,142 in 2020 to 3,148 in 2021. During the review period, public universities constituent colleges degree programmes increased by 17.1 per cent to 144. The number of approved private university programmes registered

a growth of 8.5 per cent from 667 in 2020 to 724 in 2021. During the review period, the total number of diploma programmes approved was 1,166, with private universities diploma programmes approved accounting for 60.4 per cent. Over the same period, public universities certificate programmes approved contributed 57.4 per cent of the total certificate programmes.

**Table 15.18: Approved Programmes by Category of Institution, 2017-2021**

| Programme by Category of Institution                            | 2017  | 2018  | 2019  | 2020  | Number<br>2021* |
|---|-------|-------|-------|-------|-----------------|
| Public University Degree Programmes                             | 2,807 | 3,703 | 3,605 | 3,142 | 3,148           |
| Public University Constituent Colleges Degree Programmes        | 108   | 79    | 106   | 123   | 144             |
| Private University Degree Programmes                            | 630   | 587   | 635   | 667   | 724             |
| Private University Constituent Colleges Degree Programmes       | 22    | 33    | 28    | 30    | 24              |
| Universities with Letter of Interim Authority Degree Programmes | 70    | 70    | 87    | 76    | 65              |
| Registered Private University Degree Programmes                 | 4     | 0     | 0     | 0     | 0               |
| Degree Programmes for Collaboration with Universities           | 45    | 4     | 5     | 0     | 0               |
| Validated Diploma Programmes <sup>1</sup>                       | 103   | 0     | 0     | 0     | 0               |
| Diploma Programmes - Public Universities <sup>2</sup>           | ..    | 319   | 429   | 0     | 462             |
| Diploma Programmes - Private Universities <sup>2</sup>          | ..    | 215   | 241   | 0     | 704             |
| Certificate Programmes - Public Universities <sup>2</sup>       | ..    | ..    | 148   | 0     | 325             |
| Certificate Programmes - Private Universities <sup>2</sup>      | ..    | ..    | 99    | 0     | 241             |

Source: Commission for University Education

\* Provisional

.. Data not available

<sup>1</sup>Commission currently does not regulate diploma programmes

<sup>2</sup>Diploma and certificate programmes approved by universities' senates

## Education Loans

**15.25.** The number of HELB loan applicants, beneficiaries and amount of loans awarded from 2016/17 to 2020/21 academic years is presented in Table 15.19. During the period under review, the number of loan applicants declined by 3.2 per cent to 376.1 thousand in 2020/21, mainly due to a decline in number of loan applicants from TVET institutions. The number of male loan applicants accounted for 58.1 per cent of the total loan applicants in the review period. Total loan applicants from public universities increased from 215.4 thousand in 2019/20 to 217.4 thousand in 2020/21 academic year. In 2020/21, the total number of loan beneficiaries went down by 2.2 per cent from 349.2 thousand in 2019/20 to 341.6 thousand in 2020/21. Loans awarded to successful loan applicants decreased by 6.6 per cent from KSh 15.2 billion in 2019/20 to KSh 14.2 billion in 2020/21. During the review period, the loans awarded to male applicants accounted for 58.8 per cent of the total amount of loans awarded, while those awarded to female applicants accounted for 41.2 per cent.

**15.26.** The number of male loan applicants from public universities rose by 2.5 per cent to 131.5 thousand in 2020/21, in contrast to the number of female applicants which recorded a decrease of 1.3 per cent to stand at 86.0 thousand over the same period. The total number of loan beneficiaries from public universities recorded a decline of 6.3 per cent to 198.2 thousand in 2020/21, with the number of males' and females' beneficiaries decreasing by 4.7 per cent and 8.7 per cent, respectively. The amount of loans awarded to applicants from public universities went down by 9.4 per cent to KSh 8.6 billion in 2020/21, with 91.1 per cent of all applicants from public universities being awarded loans in the 2020/21 academic year.

**15.27.** The total number of loan applicants from private universities recorded a growth of 15.0 per cent from 38,241 in 2019/20 to 43,960 in 2020/21. Number of female loan applicants rose by 19.8 per cent compared to that of male counterparts at 11.7 per cent

in 2020/21. The growth was attributed to placement of more students pursuing degree courses by the Government in private universities. The number of loan beneficiaries from private universities increased by 5.8 per cent to 37,599 in 2020/21, with 85.5 per cent of all loan applicants from private universities being awarded loans. The amount of loans awarded to loan applicants from private universities declined from KSh 1.7 billion in 2019/20 to KSh 1.6 billion in 2020/21.

**15.28.** The Government continued to provide support to students enrolled in TVET institutions undertaking technical and vocational courses through provision of loans. The total number of TVET students loan applicants declined by 15.0 per cent from 135,046 in 2019/20 to 114,737 in 2020/21. The number of student loan beneficiaries increased by 3.6 per cent from 102.1 thousand in 2019/20 to 105.8 thousand in 2020/21. Total amount of loans awarded to students decreased by 2.5 per cent to KSh 4.0 billion in the review period.

**Table 15.19: HELB Loan Applicants, Beneficiaries and Amount of Loans Awarded by Sex, 2016/17 – 2020/21**

| Academic Year               | “Number of Loans Applicants” |         |         | “Number of Loans Beneficiaries” |         |         | “Amount of Loans Awarded (KSh Million )” |         |          |
|-----------------------------|------------------------------|---------|---------|---------------------------------|---------|---------|--|---------|----------|
|                             | Male                         | Female  | Total   | Male                            | Female  | Total   | Male                                     | Female  | Total    |
| <b>Total</b>                |                              |         |         |                                 |         |         |  |         |          |
| 2016/17                     | 163,887                      | 89,042  | 252,928 | 158,537                         | 86,089  | 244,626 | 6,125.4                                  | 3,326.9 | 9,452.3  |
| 2017/18                     | 162,094                      | 118,950 | 281,044 | 158,737                         | 117,086 | 275,823 | 6,375.0                                  | 4,683.9 | 11,058.9 |
| 2018/19                     | 171,851                      | 126,138 | 297,989 | 168,852                         | 124,397 | 293,249 | 6,787.7                                  | 4,897.9 | 11,685.6 |
| 2019/20                     | 224,991                      | 163,692 | 388,683 | 201,217                         | 147,983 | 349,200 | 8,853.4                                  | 6,356.9 | 15,210.3 |
| 2020/21                     | 218,360                      | 157,777 | 376,137 | 198,437                         | 143,169 | 341,606 | 8,349.0                                  | 5,858.1 | 14,207.1 |
| <b>Public Universities</b>  |                              |         |         |                                 |         |         |  |         |          |
| 2016/17                     | 137,476                      | 74,026  | 211,501 | 134,726                         | 72,545  | 207,271 | 5,403.0                                  | 2,909.3 | 8,312.2  |
| 2017/18                     | 130,285                      | 91,531  | 221,816 | 127,605                         | 90,283  | 217,888 | 5,368.5                                  | 3,797.7 | 9,166.2  |
| 2018/19                     | 122,522                      | 84,777  | 207,299 | 120,094                         | 83,568  | 203,662 | 5,320.2                                  | 3,644.6 | 8,964.8  |
| 2019/20                     | 128,321                      | 87,075  | 215,396 | 125,838                         | 85,703  | 211,541 | 5,693.0                                  | 3,776.1 | 9,469.1  |
| 2020/21                     | 131,478                      | 85,962  | 217,440 | 119,958                         | 78,223  | 198,181 | 5,246.9                                  | 3,331.3 | 8,578.2  |
| <b>Private Universities</b> |                              |         |         |                                 |         |         |  |         |          |
| 2016/17                     | 4,086                        | 2,958   | 7,044   | 3,718                           | 2,692   | 6,410   | 149.1                                    | 108.0   | 257.1    |
| 2017/18                     | 7,384                        | 5,844   | 13,228  | 7,341                           | 5,812   | 13,153  | 313.9                                    | 249.3   | 563.3    |
| 2018/19                     | 14,402                       | 10,968  | 25,370  | 14,081                          | 10,680  | 24,761  | 661.3                                    | 494.3   | 1,155.6  |
| 2019/20                     | 22,752                       | 15,489  | 38,241  | 20,438                          | 15,110  | 35,548  | 963.7                                    | 695.0   | 1,658.7  |
| 2020/21                     | 25,407                       | 18,553  | 43,960  | 21,915                          | 15,684  | 37,599  | 970.4                                    | 676.1   | 1,646.5  |
| <b>TVET institutions</b>    |                              |         |         |                                 |         |         |  |         |          |
| 2016/17                     | 22,326                       | 12,058  | 34,383  | 20,093                          | 10,852  | 30,945  | 573.3                                    | 309.6   | 883.0    |
| 2017/18                     | 24,425                       | 21,575  | 46,000  | 23,791                          | 20,991  | 44,782  | 692.6                                    | 636.8   | 1,329.4  |
| 2018/19                     | 34,927                       | 30,393  | 65,320  | 34,677                          | 30,149  | 64,826  | 806.1                                    | 759.0   | 1,565.2  |
| 2019/20                     | 73,918                       | 61,128  | 135,046 | 54,941                          | 47,170  | 102,111 | 2,196.7                                  | 1,885.8 | 4,082.5  |
| 2020/21                     | 61,475                       | 53,262  | 114,737 | 56,564                          | 49,262  | 105,826 | 2,131.7                                  | 1,850.7 | 3,982.4  |

Source: Higher Education Loans Board

**15.29.** The number of bursary applicants, beneficiaries and the amounts awarded by HELB to students in public universities, private universities and TVET institutions from 2016/17 to 2020/21 is shown in Table 15.20. During the year under review, there were no bursary applicants from universities and TVET institutions. The total number of applicants awarded bursaries was 39,055 in 2020/21 down from 40,235 in 2019/20, reflecting a decrease of 2.9 per cent. Total amount of bursaries awarded declined by 0.6 per cent to KSh 237.1 million in 2020/21. The number of applicants from public universities awarded bursaries declined by 13.4 per cent to 15,804 in 2020/21. Similarly, the amount awarded decreased by 7.9 per cent to KSh 114.5 million in the review period. Total applicants awarded bursaries from private universities grew by 12.6 per cent with the amount awarded rising by 22.2 per cent to KSh 22.6 million in 2020/21. In TVET institutions, the total number

of applicants awarded bursaries increased by 4.7 per cent to 20,066 in 2020/21, with the amount of bursary awarded rising by 4.5 per cent to KSh 100.0 million. This was mainly on account of a 16.5 per cent increase in the amount awarded to female students in the review period. Amount of bursary awarded to male students in TVET institutions declined by 2.8 per cent to KSh 58.4 million in 2020/21.



**The number of applicants from public universities awarded bursaries declined by 13.4 per cent to 15,804 in 2020/21. Similarly, the amount awarded decreased by 7.9 per cent to KSh 114.5 million in the review period**

**Table 15.20: HELB Bursary Applicants, Beneficiaries and Amount Awarded by Sex, 2016/17– 2020/21**

| Academic Year               | “Number of Bursary Applicants” |         |         | Number of Applicants Awarded Bursary |        |        | “Amount of Bursary Awarded (KSh Million )” |        |       |
|-----------------------------|--------------------------------|---------|---------|--------------------------------------|--------|--------|--|--------|-------|
|                             | Male                           | Female  | Total   | Male                                 | Female | Total  | Male                                       | Female | Total |
| <b>Total</b>                |                                |         |         |                                      |        |        |  |        |       |
| 2016/17                     | 152,953                        | 90,580  | 243,532 | 24,309                               | 11,344 | 35,653 | 173.1                                      | 81.3   | 254.4 |
| 2017/18                     | 162,094                        | 118,950 | 281,044 | 21,714                               | 12,735 | 34,449 | 149.4                                      | 89.7   | 239.1 |
| 2018/19                     | 121,568                        | 80,043  | 201,611 | 24,363                               | 14,163 | 38,526 | 141.0                                      | 81.7   | 222.7 |
| 2019/20                     | 152,428                        | 112,736 | 265,164 | 25,090                               | 15,145 | 40,235 | 149.7                                      | 88.8   | 238.5 |
| 2020/21                     | ..                             | ..      | ..      | 24,326                               | 14,729 | 39,055 | 148.9                                      | 88.2   | 237.1 |
| <b>Public Universities</b>  |                                |         |         |                                      |        |        |  |        |       |
| 2016/17                     | 130,627                        | 78,522  | 209,149 | 13,967                               | 5,985  | 19,952 | 93.6                                       | 40.1   | 133.7 |
| 2017/18                     | 130,285                        | 91,531  | 221,816 | 12,470                               | 6,321  | 18,791 | 87.3                                       | 45.2   | 132.5 |
| 2018/19                     | 88,772                         | 56,789  | 145,561 | 13,593                               | 6,607  | 20,200 | 83.7                                       | 42.8   | 126.5 |
| 2019/20                     | 100,760                        | 72,058  | 172,818 | 11,380                               | 6,870  | 18,250 | 78.0                                       | 46.3   | 124.3 |
| 2020/21                     | ..                             | ..      | ..      | 10,514                               | 5,290  | 15,804 | 75.7                                       | 38.8   | 114.5 |
| <b>Private Universities</b> |                                |         |         |                                      |        |        |  |        |       |
| 2016/17                     | ..                             | ..      | ..      | ..                                   | ..     | ..     | ..   | ..     | ..    |
| 2017/18                     | 7,384                          | 5,844   | 13,228  | 526                                  | 316    | 842    | 4.1  | 2.5    | 6.7   |
| 2018/19                     | 8,907                          | 5,870   | 14,777  | 1,356                                | 691    | 2,047  | 8.0  | 4.3    | 12.3  |
| 2019/20                     | 13,081                         | 10,676  | 23,757  | 1,764                                | 1,064  | 2,828  | 11.6                                       | 6.9    | 18.5  |
| 2020/21                     | ..                             | ..      | ..      | 2,099                                | 1,086  | 3,185  | 14.8                                       | 7.8    | 22.6  |
| <b>TVET Institutions</b>    |                                |         |         |                                      |        |        |  |        |       |
| 2016/17                     | 22,326                         | 12,058  | 34,383  | 10,342                               | 5,359  | 15,701 | 79.5                                       | 41.2   | 120.8 |
| 2017/18                     | 24,425                         | 21,575  | 46,000  | 8,718                                | 6,098  | 14,816 | 58.0                                       | 42.0   | 100.0 |
| 2018/19                     | 23,889                         | 17,384  | 41,273  | 9,414                                | 6,865  | 16,279 | 49.3                                       | 34.7   | 84.0  |
| 2019/20                     | 38,587                         | 30,002  | 68,589  | 11,946                               | 7,211  | 19,157 | 60.1                                       | 35.7   | 95.7  |
| 2020/21                     | ..                             | ..      | ..      | 11,713                               | 8,353  | 20,066 | 58.4                                       | 41.6   | 100.0 |

Source: Higher Education Loans Board

No bursary applicants for 2020/21, pending applicants from the previous years awarded

**15.30.** Government capitation to Higher Education Loans Board, loan repayments, and loans and bursaries awarded from 2016/17 to 2020/21 is shown in Table 15.21. Government capitation grew from KSh 8.2 billion in 2019/20 to KSh 11.0 billion in 2020/21, representing an increase of 34.2 per cent, while bur-

sary capitation remained same. Loan repayments declined by 2.2 per cent to KSh 4.3 billion in the review period. In 2020/21, total amount of student loans and bursaries awarded decreased by 6.5 per cent to KSh 14.4 billion.

**Table 15.21: Government Capitation to HELB, HELB Loan Repayments and Loans / Bursaries Awarded, 2016/17-2020/21**

| Academic Year | GOK Loans Capitation | GOK Bursaries Capitation | Loan Repayments | Total GOK Capitation and Loan Repayments | Loans Awarded | Bursaries Awarded | KSh Million Total Loans and Bursaries Awarded |
|---------------|----------------------|--------------------------|-----------------|--|---------------|-------------------|---|
| 2016/17       | 6,177.8              | 237.0                    | 4,143.0         | 10,557.8                                 | 9,452.3       | 254.4             | 9,706.7                                       |
| 2017/18       | 7,651.8              | 237.0                    | 4,954.2         | 12,843.0                                 | 11,058.9      | 232.5             | 11,291.3                                      |
| 2018/19       | 7,045.7              | 237.0                    | 4,360.7         | 11,643.3                                 | 11,685.6      | 210.4             | 11,896.0                                      |
| 2019/20       | 8,225.0              | 237.0                    | 4,448.9         | 12,910.9                                 | 15,210.3      | 238.5             | 15,448.8                                      |
| 2020/21       | 11,045.7             | 237.0                    | 4,349.8         | 15,632.4                                 | 14,207.1      | 237.1             | 14,444.2                                      |

Source: Higher Education Loans Board

### Research and Development

**15.31.** The number of research license applications and licenses granted by the National Commission for Science, Technology, and Innovation (NACOSTI), disaggregated by nationality from 2017/18 to 2020/21 is presented in Table 15.22. The number of research license applications declined by 1.5 per cent to 5,985 in 2020/21, while the total number of licenses granted

decreased from 6,112 in 2019/20 to 5,153 in 2020/21. The number of African Non-EAC research license applicants increased by 34.5 per cent to 78 in 2020/21. License applications by Non-African Nationals reduced from 240 in 2019/20 to 190 in 2020/21, while the licenses granted declined by 31.5 per cent to 183 in the same period.

**Table 15.22: Research License Applications and Licenses Granted by Nationality, 2017/18 - 2020/21**

| Nationality              | Number               |                  |                      |                  |                      |                  |                      |                  |
|--------------------------|----------------------|------------------|----------------------|------------------|----------------------|------------------|----------------------|------------------|
|                          | 2017/18              |                  | 2018/19              |                  | 2019/20              |                  | 2020/21*             |                  |
|                          | License Applications | Licenses Granted |
| Kenyan/EAC Citizens      | 4,162                | 3,894            | 6,081                | 5,289            | 5,779                | 5,792            | 5,717                | 4,895            |
| African Non-EAC Citizens | 72                   | 62               | 70                   | 54               | 58                   | 53               | 78                   | 75               |
| Non-African Nationals    | 384                  | 286              | 472                  | 376              | 240                  | 267              | 190                  | 183              |
| <b>Total</b>             | <b>4,618</b>         | <b>4,242</b>     | <b>6,623</b>         | <b>5,719</b>     | <b>6,077</b>         | <b>6,112</b>     | <b>5,985</b>         | <b>5,153</b>     |

Source: National Commission for Science, Technology and Innovation

\* Provisional

**15.32.** Table 15.23 shows the number of individual research licences granted by nationality, research category and sex from 2016/17 to 2020/21. The total number of individual research licences granted reduced by 15.7 per cent from 6,112 in 2019/20 to 5,153 in 2020/21. Similarly, the number of individual research licences granted to female applicants declined by 17.4 per cent to 2,361, while that of male applicants decreased by 14.2 per cent to 2,792 over the same period. The number of individual research licences granted to Kenyan and EAC citizens declined by 15.5 per cent to 4,895 in 2020/21. During the review period, the number of individual research licences granted to African non-EAC citizens rose by 41.5 per cent, while those granted to Non-African Nationals declined by 31.5 per cent. Research licenses granted to researchers from Kenya and other EAC citizens pursuing doctorate and post-doctorate increased by 1.6 per cent and 1.7 per cent, respectively, while those undertaking undergraduate and masters' programmes declined by 17.8 per cent and 19.6 per cent, respectively, in the review period.

**Table 15.23: Number of Individual Research Licenses Granted by Nationality, Research Category and Sex, 2016/17 - 2020/21**

| Nationality/Research Category    |              | 2016/17      |              |              | 2017/18      |              |              | 2018/19      |              |              | 2019/20      |              |              | 2020/21*     |              |       | Number |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------|--------|
|                                  |              | Male         | Female       | Total        | Male         | Female       | Total |        |
| <b>Kenyan/EAC Citizens:</b>      |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |       |        |
| Undergraduate and Diploma        | 38           | 46           | 84           | 47           | 74           | 121          | 64           | 124          | 188          | 346          | 441          | 787          | 264          | 383          | 647          |       |        |
| Master                           | 1,505        | 1,487        | 2,992        | 1,490        | 1,448        | 2,938        | 2,039        | 1,933        | 3,972        | 2,094        | 1,865        | 3,959        | 1,729        | 1,456        | 3,185        |       |        |
| Doctorate                        | 389          | 345          | 734          | 407          | 350          | 757          | 583          | 428          | 1,011        | 571          | 357          | 928          | 594          | 349          | 943          |       |        |
| Post-Doctorate                   | 28           | 19           | 47           | 42           | 36           | 78           | 67           | 51           | 118          | 89           | 29           | 118          | 74           | 46           | 120          |       |        |
| Sub-Total                        | 1,960        | 1,897        | 3,857        | 1,986        | 1,908        | 3,894        | 2,753        | 2,536        | 5,289        | 3,100        | 2,692        | 5,792        | 2,661        | 2,234        | 4,895        |       |        |
| <b>African Non-EAC Citizens:</b> |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |       |        |
| Undergraduate and Diploma        | 1            | 2            | 3            | 4            | -            | 4            | 4            | -            | 4            | -            | -            | -            | -            | 1            | -            | 1     |        |
| Master                           | 13           | 13           | 26           | 12           | 5            | 17           | 13           | 12           | 25           | 30           | 14           | 44           | 16           | 29           | 45           |       |        |
| Doctorate                        | 2            | 2            | 4            | 22           | 18           | 40           | 14           | 2            | 16           | 6            | 3            | 9            | 16           | 6            | 22           |       |        |
| Post-Doctorate                   | 1            | -            | 1            | 1            | -            | 1            | 5            | 4            | 9            | -            | -            | -            | 6            | 1            | 7            |       |        |
| Sub-Total                        | 17           | 17           | 34           | 39           | 23           | 62           | 36           | 18           | 54           | 36           | 17           | 53           | 39           | 36           | 75           |       |        |
| <b>Non-African Nationals:</b>    |              |              |              |              |              |              |              |              |              |              |              |              |              |              |              |       |        |
| Undergraduate and Diploma        | 9            | 10           | 19           | 10           | 20           | 9            | 23           | 32           | 2            | 10           | 12           | 1            | 1            | 2            |              |       |        |
| Master                           | 15           | 20           | 35           | 10           | 22           | 32           | 27           | 54           | 13           | 13           | 26           | 12           | 12           | 24           |              |       |        |
| Doctorate                        | 49           | 40           | 89           | 46           | 67           | 113          | 50           | 49           | 99           | 33           | 58           | 91           | 25           | 28           | 53           |       |        |
| Post-Doctorate                   | 40           | 37           | 77           | 62           | 59           | 121          | 102          | 89           | 191          | 71           | 67           | 138          | 54           | 50           | 104          |       |        |
| Sub-Total                        | 113          | 107          | 220          | 128          | 158          | 286          | 188          | 188          | 376          | 119          | 148          | 267          | 92           | 91           | 183          |       |        |
| <b>TOTAL</b>                     | <b>2,090</b> | <b>2,021</b> | <b>4,111</b> | <b>2,153</b> | <b>2,089</b> | <b>4,242</b> | <b>2,977</b> | <b>2,742</b> | <b>5,719</b> | <b>3,255</b> | <b>2,857</b> | <b>6,112</b> | <b>2,792</b> | <b>2,361</b> | <b>5,153</b> |       |        |

Source: National Commission for Science, Technology and Innovation  
\* Provisional

**15.33.** The number of individual research licenses granted by field of study and sex from 2016/17 to 2020/21 is presented in Table 15.24. Generally, there was a reduction in the number of research licenses granted to researchers in all fields of study. The highest drop in the number of research licenses granted occurred in the field of physical, industrial and energy science at 34.0 per cent in 2020/21. This was mainly on account of a 59.0 per cent reduction in number of research licenses granted to female researchers. The number of research licenses granted to male researchers under agriculture and natural resources sciences increased from 174 in 2019/20 to 181 in 2020/21. During the review period, the number of licences granted in the field of health and biological sciences declined by 18.9 per cent to 1,113. The number of research licenses granted under ICT and Infrastructural sciences

went down by 27.0 per cent to 214 in 2020/21. Research licenses granted in the field of humanities and social sciences accounted for 66.2 per cent of all the individual research licenses during the review period.

**15.34.** Table 15.25 presents the number of institutional research licenses granted by field of study and nationality from 2016/17 to 2020/21. The number of institutional research licenses granted increased from 369 in 2019/20 to 690 in 2020/21, mainly on account of applications from research institutions within the country and East African Community. During the review period, research licenses were granted to Kenya and other EAC institutions, with licenses granted in the field of Health and Biological Sciences, accounting for 58.4 per cent of the total licences in the review period.

**Table 15.24: The number of Individual Research Licenses Granted by Field of Study and Sex, 2016/17 - 2020/21**

| Field of Study                             | 2016/17      |              |              | 2017/18      |              |              | 2018/19      |              |              | 2019/20      |              |              | 2020/21*     |              |              | Number |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|
|  | Male         | Female       | Total        |        |
| Agriculture and Natural Resources Sciences | 37           | 34           | 71           | 47           | 33           | 80           | 78           | 65           | 143          | 174          | 129          | 303          | 181          | 116          | 297          |        |
| Earth and Space Sciences                   | 81           | 51           | 132          | 84           | 66           | 150          | 149          | 112          | 261          | 34           | 28           | 62           | 39           | 15           | 54           |        |
| Health and Biological Sciences             | 167          | 172          | 339          | 186          | 241          | 427          | 317          | 304          | 621          | 669          | 703          | 1,372        | 557          | 556          | 1,113        |        |
| Humanities and Social Sciences             | 1,675        | 1,673        | 3,348        | 1,714        | 1,651        | 3,365        | 2,229        | 2,133        | 4,362        | 2,158        | 1,827        | 3,985        | 1,837        | 1,574        | 3,411        |        |
| ICT and Infrastructural Sciences           | 89           | 62           | 151          | 84           | 68           | 152          | 136          | 79           | 215          | 163          | 130          | 293          | 130          | 84           | 214          |        |
| Physical, Industrial and Energy Sciences   | 41           | 29           | 70           | 38           | 30           | 68           | 68           | 49           | 117          | 58           | 39           | 97           | 48           | 16           | 64           |        |
| <b>TOTAL</b>                               | <b>2,090</b> | <b>2,021</b> | <b>4,111</b> | <b>2,153</b> | <b>2,089</b> | <b>4,242</b> | <b>2,977</b> | <b>2,742</b> | <b>5,719</b> | <b>3,256</b> | <b>2,856</b> | <b>6,112</b> | <b>2,792</b> | <b>2,361</b> | <b>5,153</b> |        |

Source: National Commission for Science, Technology and Innovation

\* Provisional

**Table 15.25: Institutional Research Licenses Granted by Field of Study and Nationality, 2016/17 - 2020/21**

| Field of Study                             | 2016/17                     |                                 |            |                             | 2017/18                     |            |                             |                                 | 2018/19    |                             |                                 |            | 2019/20*                    |                                 |            |                             | 2020/21*                        |          |            |          |            |
|--|-----------------------------|---------------------------------|------------|-----------------------------|-----------------------------|------------|-----------------------------|---------------------------------|------------|-----------------------------|---------------------------------|------------|-----------------------------|---------------------------------|------------|-----------------------------|---------------------------------|----------|------------|----------|------------|
|  | "Kenyan / EAC Institutions" | "Non-Kenyan / EAC Institutions" | Total      | "Kenyan / EAC Institutions" | "Kenyan / EAC Institutions" | Total      | "Kenyan / EAC Institutions" | "Non-Kenyan / EAC Institutions" | Total      | "Kenyan / EAC Institutions" | "Non-Kenyan / EAC Institutions" | Total      | "Kenyan / EAC Institutions" | "Non-Kenyan / EAC Institutions" | Total      | "Kenyan / EAC Institutions" | "Non-Kenyan / EAC Institutions" | Total    |            |          |            |
| Agriculture and Natural Resources Sciences | 3                           | 1                               | 4          | 11                          | 5                           | 16         | 11                          | 2                               | 13         | 24                          | 1                               | 25         | 37                          | 1                               | 25         | 37                          | 1                               | 25       | 37         | -        | 37         |
| Earth and Space Sciences                   | 8                           | 7                               | 15         | 6                           | 8                           | 14         | 15                          | 4                               | 19         | 7                           | 1                               | 8          | 8                           | 8                               | 8          | 8                           | 8                               | 8        | 8          | -        | 8          |
| Health and Biological Sciences             | 24                          | 12                              | 36         | 44                          | 17                          | 61         | 106                         | 10                              | 116        | 185                         | 1                               | 186        | 403                         | -                               | 403        | -                           | 403                             | -        | 403        | -        | 403        |
| Humanities and Social Sciences             | 85                          | 9                               | 94         | 113                         | 7                           | 120        | 129                         | 9                               | 138        | 145                         | 3                               | 148        | 220                         | -                               | 220        | -                           | 220                             | -        | 220        | -        | 220        |
| ICT and Infrastructure Sciences            | 3                           | -                               | 3          | 4                           | -                           | 4          | 3                           | 1                               | 4          | 2                           | -                               | 2          | 16                          | 16                              | 16         | 16                          | 16                              | 16       | 16         | -        | 16         |
| Physical, Industrial and Energy Sciences   | 2                           | -                               | 2          | 3                           | 1                           | 4          | 6                           | -                               | 6          | -                           | -                               | -          | 6                           | -                               | 6          | -                           | 6                               | -        | 6          | -        | 6          |
| <b>TOTAL</b>                               | <b>125</b>                  | <b>29</b>                       | <b>154</b> | <b>181</b>                  | <b>38</b>                   | <b>219</b> | <b>270</b>                  | <b>26</b>                       | <b>296</b> | <b>363</b>                  | <b>6</b>                        | <b>369</b> | <b>690</b>                  | <b>0</b>                        | <b>690</b> | <b>0</b>                    | <b>690</b>                      | <b>0</b> | <b>690</b> | <b>0</b> | <b>690</b> |

Source: National Commission for Science, Technology and Innovation  
 \*Provisional

### Government Funding to Public and Private Universities

15.35. Table 15.26 shows Government funding to universities and number of students funded from 2019/20 to 2021/22. The number of students to be funded from public universities is expected to increase by 18.1 per cent to 338,533 in 2021/22. Funding to public universities is expected to grow by 4.6 per cent to KSh 43.8 billion in 2021/22. Funding to public university constituent colleges is expected to rise by 5.0 per cent to KSh 2.1 billion in 2021/22 from KSh 2.0 billion in 2020/21.

**Table 15.26: Government Funding to Universities and Number of Students Funded, 2019/20 – 2021/22**

| INSTITUTION                     | 2019/20 |        |        | 2020/21  |   |        | 2021/22*                                |          |   |        |        |          |
|---------------------------------|---------|--------|--------|----------|---|--------|---|----------|---|--------|--------|----------|
|                                 | Male    | Female | Total  | Number   | Amount of Funds Allocated (KSh Million) | Number | Amount of Funds Allocated (KSh Million) | Number   | Amount of Funds Allocated (KSh Million) |        |        |          |
| <b>Public Universities</b>      |         |        |        |          |   |        |   |          |   |        |        |          |
| University of Nairobi           | 14,909  | 9,912  | 24,821 | 5,091.47 | 16,076                                  | 11,106 | 27,182                                  | 5,231.81 | 19,210                                  | 13,221 | 32,431 | 5,588.03 |
| Kenyatta                        | ..      | ..     | 27,834 | 3,059.91 | ..                                      | ..     | 33,341                                  | 3,160.14 | ..                                      | ..     | 32,162 | 3,360.80 |
| Moi                             | 12,886  | 11,350 | 24,236 | 3,224.70 | 9,840                                   | 8,957  | 18,797                                  | 3,244.03 | ..                                      | ..     | 23,809 | 3,424.22 |
| Egerton                         | 9,572   | 6,642  | 16,214 | 2,080.55 | 5,972                                   | 6,642  | 16,214                                  | 2,102.13 | 10,677                                  | 7,373  | 18,050 | 2,219.25 |
| Jomo Kenyatta (JKUAT)           | 10,424  | 8,334  | 18,758 | 2,814.54 | 10,424                                  | 8,334  | 18,758                                  | 2,835.11 | 14,070                                  | 11,260 | 25,340 | 2,996.81 |
| Maseno                          | 7,020   | 5,163  | 12,183 | 1,600.31 | 7,937                                   | 5,576  | 13,513                                  | 1,622.93 | 9,230                                   | 6,927  | 16,157 | 1,698.16 |
| Masinde Muliro                  | 8,626   | 5,029  | 13,655 | 1,679.29 | 7,892                                   | 4,781  | 12,673                                  | 1,695.39 | 5,974                                   | 3,671  | 9,645  | 1,755.53 |
| Technical University of Kenya   | 8,232   | 2,982  | 11,214 | 1,858.53 | 6,708                                   | 2,410  | 9,118                                   | 1,886.46 | 7,751                                   | 3,005  | 10,756 | 1,980.75 |
| Technical University of Mombasa | 4,838   | 1,776  | 6,614  | 906.90   | 5,888                                   | 2,041  | 7,929                                   | 924.04   | 6,896                                   | 2,397  | 9,293  | 958.41   |
| Dedan Kimathi                   | 4,181   | 2,075  | 6,256  | 875.80   | 4,181                                   | 2,075  | 6,256                                   | 892.58   | 2,355                                   | 5,156  | 7,521  | 922.32   |
| Chuka                           | 7,103   | 4,387  | 11,490 | 1,281.15 | 7,103                                   | 4,387  | 11,490                                  | 1,296.78 | 9,334                                   | 6,259  | 15,593 | 1,328.40 |
| Karatina                        | 3,150   | 2,398  | 5,548  | 721.66   | 3,150                                   | 2,398  | 5,548                                   | 723.10   | 3,129                                   | 2,382  | 5,511  | 747.53   |
| Kisii                           | 4,691   | 2,926  | 7,617  | 1,088.48 | 5,836                                   | 3,508  | 9,344                                   | 1,116.40 | ..                                      | ..     | 12,118 | 1,179.04 |
| Meru                            | 2,802   | 1,491  | 4,293  | 685.06   | 3,259                                   | 1,674  | 4,933                                   | 693.97   | 4,122                                   | 2,112  | 6,234  | 715.84   |
| Multimedia                      | 3,526   | 1,831  | 5,357  | 576.18   | 3,468                                   | 1,760  | 5,228                                   | 591.96   | 4,412                                   | 2,279  | 6,691  | 617.02   |
| South Eastern Kenya University  | 3,912   | 2,414  | 6,326  | 908.37   | 3,831                                   | 2,307  | 6,138                                   | 911.12   | 3,831                                   | 2,307  | 6,138  | 936.51   |
| Jaramogi Oginga Odinga          | 3,681   | 1,895  | 5,576  | 984.14   | 3,681                                   | 1,895  | 5,576                                   | 985.69   | 3,680                                   | 1,858  | 5,538  | 1,027.76 |
| Laikipia                        | 3,077   | 2,514  | 5,591  | 863.24   | 2,655                                   | 2,349  | 5,004                                   | 865.23   | 3,678                                   | 3,259  | 6,937  | 891.04   |
| University of Eldoret           | 5,697   | 4,669  | 10,366 | 1,890.13 | 5,180                                   | 4,242  | 9,422                                   | 1,891.50 | 5,180                                   | 4,242  | 9,422  | 1,965.43 |
| Kabianga                        | 3,263   | 2,787  | 6,050  | 756.52   | 2,652                                   | 2,299  | 4,951                                   | 781.73   | 4,844                                   | 3,107  | 7,951  | 811.02   |
| Pwani                           | 3,527   | 2,491  | 6,018  | 724.25   | 3,692                                   | 2,474  | 6,166                                   | 749.45   | 3,764                                   | 2,509  | 6,273  | 780.90   |
| Masai Mara                      | 4,356   | 3,676  | 8,032  | 1,012.85 | 3,934                                   | 3,457  | 7,391                                   | 1,014.42 | ..                                      | ..     | 7,709  | 1,051.02 |
| Kibabii                         | 2,569   | 1,563  | 4,132  | 610.36   | 2,576                                   | 1,509  | 4,085                                   | 627.05   | 3,261                                   | 2,025  | 5,286  | 649.56   |
| University of Embu              | 2,822   | 1,776  | 4,598  | 580.19   | 3,385                                   | 2,138  | 5,523                                   | 600.23   | 4,735                                   | 3,110  | 7,845  | 626.18   |

**Table 15.26: Government Funding to Universities and Number of Students Funded, 2019/20 – 2021/22 (Continued)**

| INSTITUTION                                  | 2019/20        |                |                | 2020/21          |                |                | 2021/22*       |   |                |               |                |                  |   |
|--|----------------|----------------|----------------|------------------|----------------|----------------|----------------|---|----------------|---------------|----------------|------------------|---|
|  | Male           | Female         | Total          | Number           | Male           | Female         | Total          | Amount of Funds Allocated (KSh Million) | Number         | Male          | Female         | Total            | Amount of Funds Allocated (KSh Million) |
| Machakos                                     | 4,859          | 3,044          | 7,903          | 957,03           | 4,016          | 2,564          | 6,580          | 967,73                                  | ..             | ..            | ..             | 8,652            | 995,44                                  |
| Murang'a                                     | 2,591          | 1,325          | 3,916          | 471,06           | 3,632          | 1,430          | 5,062          | 498,75                                  | ..             | ..            | ..             | 7,655            | 513,56                                  |
| Rongo  | 2,331          | 1,751          | 4,082          | 540,63           | 2,410          | 1,602          | 4,012          | 551,93                                  | 3,120          | 1,948         | 5,068          | 576,35           | ..                                      |
| Kirinyaga                                    | 2,082          | 1,262          | 3,344          | 326,82           | 3,123          | 1,593          | 4,716          | 346,58                                  | 5,402          | 2,709         | 8,111          | 358,63           | ..                                      |
| Co-operative                                 | 1,511          | 1,405          | 2,916          | 239,21           | 1,511          | 1,405          | 2,916          | 265,48                                  | 1,712          | 1,533         | 3,245          | 281,90           | ..                                      |
| Taita Taveta                                 | 1,868          | 808            | 2,676          | 391,03           | 1,921          | 838            | 2,759          | 392,31                                  | 1,921          | 838           | 2,759          | 404,46           | ..                                      |
| Garissa                                      | 490            | 217            | 707            | 406,97           | 490            | 217            | 707            | 408,75                                  | ..             | ..            | ..             | 694              | 417,37                                  |
| University Constituent Colleges <sup>1</sup> | 2,438          | 1,842          | 4,280          | 1,810,09         | 2,958          | 2,122          | 5,080          | 2,032,66                                | 3,051          | 2,338         | 7,939          | 2,064,70         | ..                                      |
| SUB-TOTAL                                    | 153,034        | 101,735        | 282,603        | 41,017           | 152,981        | 100,090        | 286,580        | 41,907,42                               | 145,339        | 97,825        | 338,533        | 43,843,96        | ..                                      |
| Private Universities                         | 24,315         | 17,024         | 41,339         | 1,188            | ..             | ..             | ..             | ..                                      | ..             | ..            | ..             | ..               | ..                                      |
| <b>GRAND TOTAL</b>                           | <b>177,349</b> | <b>118,759</b> | <b>323,942</b> | <b>42,205,63</b> | <b>152,981</b> | <b>100,090</b> | <b>286,580</b> | <b>41,907,42</b>                        | <b>145,339</b> | <b>97,825</b> | <b>338,533</b> | <b>43,843,96</b> | <b>..</b>                               |

Source: Universities Fund

\* Provisional

.. Data not available

<sup>1</sup>Includes Kaimosi, Alupe, Turkana, Tom Mboya, Tharaka-Nithi, Bomet, Mama Ngina and Kitale/Arap Samoei and data for male and female missing for Tom Mboya and Mama Ngina

### Adult Education

**15.36.** Table 15.27 shows enrolment in adult education centres by County and sex from 2019 to 2021. Enrolment in adult education centres declined by 28.6 per cent from 180,395 in 2020 to 128,878 in 2021, with the number of female adult learners recording a 30.4 per cent decline. Similarly, the number of male learners decreased by 24.7 per cent to 44,762 in 2021. The analysis shows that six counties recorded increase in the number of learners in adult education with the highest proportion recorded in Elgeyo Marakwet County at 49.4 per cent in the review period. In contrast, Nyamira County recorded the highest decrease of 72.7 per cent in 2021.

**Table 15.27: Enrolment of Learners in Adult Education Centres by Sex and County, 2019-2021**

| County          | 2019  |        |        | 2020  |        |       | 2021* |        |       |
|-----------------|-------|--------|--------|-------|--------|-------|-------|--------|-------|
|                 | Male  | Female | Total  | Male  | Female | Total | Male  | Female | Total |
| Mombasa         | 1,701 | 2,470  | 4,171  | 1,085 | 1,631  | 2,716 | 1,095 | 1,168  | 2,263 |
| Kwale           | 691   | 3,112  | 3,803  | 568   | 3,039  | 3,607 | 393   | 1,362  | 1,755 |
| Kilifi          | 1,521 | 7,181  | 8,702  | 1,682 | 6,175  | 7,857 | 947   | 4,946  | 5,893 |
| Tana River      | 348   | 1,151  | 1,499  | 921   | 2,617  | 3,538 | 816   | 2,185  | 3,001 |
| Lamu            | 282   | 454    | 736    | 297   | 556    | 853   | 215   | 748    | 963   |
| Taita Taveta    | 461   | 1,863  | 2,324  | 228   | 921    | 1,149 | 246   | 696    | 942   |
| Garissa         | 3,286 | 3,211  | 6,497  | 2,601 | 2,097  | 4,698 | 2,829 | 2,551  | 5,380 |
| Wajir           | 1,327 | 1,335  | 2,662  | 1,453 | 1,422  | 2,875 | 1,134 | 1,148  | 2,282 |
| Mandera         | 1,641 | 2,129  | 3,770  | 1,482 | 2,038  | 3,520 | 1,406 | 1,971  | 3,377 |
| Marsabit        | 464   | 965    | 1,429  | 1,449 | 2,056  | 3,505 | 109   | 1,003  | 1,112 |
| Isiolo          | 1,103 | 3,968  | 5,071  | 336   | 729    | 1,065 | 193   | 443    | 636   |
| Meru            | 1,966 | 5,199  | 7,165  | 1,799 | 4,234  | 6,033 | 941   | 2,097  | 3,038 |
| Tharaka-Nithi   | 421   | 589    | 1,010  | 442   | 1,579  | 2,021 | 312   | 752    | 1,064 |
| Embu            | 785   | 2,303  | 3,088  | 715   | 1,852  | 2,567 | 799   | 1,696  | 2,495 |
| Kitui           | 1,542 | 6,719  | 8,261  | 1,374 | 6,185  | 7,559 | 1,030 | 4,228  | 5,258 |
| Machakos        | 827   | 4,447  | 5,274  | 906   | 3,868  | 4,774 | 509   | 1,714  | 2,223 |
| Makueni         | 1,381 | 7,882  | 9,263  | 1,118 | 6,529  | 7,647 | 709   | 3,262  | 3,971 |
| Nyandarua       | 874   | 2,852  | 3,726  | 543   | 1,692  | 2,235 | 354   | 1,069  | 1,423 |
| Nyeri           | 790   | 2,657  | 3,447  | 550   | 2,051  | 2,601 | 235   | 1,035  | 1,270 |
| Kirinyaga       | 472   | 1,065  | 1,537  | 351   | 868    | 1,219 | 221   | 419    | 640   |
| Murang'a        | 583   | 1,836  | 2,419  | 560   | 1,879  | 2,439 | 354   | 1,016  | 1,370 |
| Kiambu          | 1,062 | 2,941  | 4,003  | 1,023 | 2,572  | 3,595 | 735   | 1,816  | 2,551 |
| Turkana         | 1,952 | 2,487  | 4,439  | 2,159 | 2,657  | 4,816 | 2,938 | 3,196  | 6,134 |
| West Pokot      | 4,214 | 6,053  | 10,267 | 1,401 | 1,867  | 3,268 | 935   | 1,374  | 2,309 |
| Samburu         | 1,125 | 2,037  | 3,162  | 1,147 | 1,833  | 2,980 | 1,055 | 1,844  | 2,899 |
| Trans Nzoia     | 971   | 3,050  | 4,021  | 964   | 1,516  | 2,480 | 498   | 814    | 1,312 |
| Uasin Gishu     | 1,309 | 1,960  | 3,269  | 1,764 | 2,271  | 4,035 | 936   | 645    | 1,581 |
| Elgeyo/Marakwet | 881   | 1,078  | 1,959  | 881   | 1,078  | 1,959 | 1,379 | 1,548  | 2,927 |
| Nandi           | 1,953 | 2,958  | 4,911  | 1,682 | 2,636  | 4,318 | 1,756 | 2,500  | 4,256 |
| Baringo         | 1,580 | 3,301  | 4,881  | 1,537 | 3,203  | 4,740 | 1,184 | 2,063  | 3,247 |
| Laikipia        | 638   | 1,583  | 2,221  | 518   | 1,259  | 1,777 | 485   | 1,075  | 1,560 |
| Nakuru          | 2,733 | 4,206  | 6,939  | 3,028 | 4,358  | 7,386 | 1,582 | 2,372  | 3,954 |
| Narok           | 790   | 2,657  | 3,447  | 963   | 1,712  | 2,675 | 950   | 1,694  | 2,644 |
| Kajiado         | 2,334 | 4,549  | 6,883  | 1,994 | 2,843  | 4,837 | 1,172 | 2,217  | 3,389 |
| Kericho         | 1,300 | 2,369  | 3,669  | 1,190 | 2,103  | 3,293 | 718   | 1,501  | 2,219 |
| Bomet           | 598   | 1,327  | 1,925  | 512   | 1,197  | 1,709 | 551   | 1,339  | 1,890 |
| Kakamega        | 869   | 1,925  | 2,794  | 800   | 1,484  | 2,284 | 673   | 979    | 1,652 |
| Vihiga          | 599   | 2,088  | 2,687  | 550   | 1,956  | 2,506 | 284   | 881    | 1,165 |

**Table 15.27: Enrolment of Learners in Adult Education Centres by Sex and County, 2019-2021  
(Continued)**

| County       | 2019          |                |                | 2020          |                |                | 2021*         |               |                |
|--------------|---------------|----------------|----------------|---------------|----------------|----------------|---------------|---------------|----------------|
|              | Male          | Female         | Total          | Male          | Female         | Total          | Male          | Female        | Total          |
| Bungoma      | 1,764         | 3,226          | 4,990          | 1,706         | 3,041          | 4,747          | 1,592         | 2,776         | 4,368          |
| Busia        | 1,160         | 2,599          | 3,759          | 625           | 1,478          | 2,103          | 360           | 877           | 1,237          |
| Siaya        | 615           | 1,518          | 2,133          | 562           | 1,645          | 2,207          | 445           | 1,028         | 1,473          |
| Kisumu       | 1,224         | 3,246          | 4,470          | 1,449         | 3,210          | 4,659          | 409           | 1,122         | 1,531          |
| Homa Bay     | 1,396         | 3,123          | 4,519          | 1,039         | 2,620          | 3,659          | 562           | 1,361         | 1,923          |
| Migori       | 1,581         | 3,035          | 4,616          | 1,406         | 2,709          | 4,115          | 740           | 1,683         | 2,423          |
| Kisii        | 2,330         | 5,042          | 7,372          | 1,710         | 3,807          | 5,517          | 1,025         | 2,618         | 3,643          |
| Nyamira      | 2,193         | 4,452          | 6,645          | 1,909         | 3,688          | 5,597          | 413           | 1,115         | 1,528          |
| Nairobi City | 5,860         | 7,387          | 13,247         | 6,479         | 8,176          | 14,655         | 6,538         | 8,169         | 14,707         |
| <b>TOTAL</b> | <b>65,497</b> | <b>143,585</b> | <b>209,082</b> | <b>59,458</b> | <b>120,937</b> | <b>180,395</b> | <b>44,762</b> | <b>84,116</b> | <b>128,878</b> |

Source: Ministry of Education, Department of Adult Education

\*Provisional

# Health and Vital statistics

## Overview

In 2021, the government embarked on mass vaccination against Coronavirus 2019 (COVID -19) with priority being given to vulnerable groups such as front-line workers, older persons, and persons with underlying conditions. COVID-19 containment measures continued for the better part of 2021. The country continued to make progress towards achieving Universal Health Coverage (UHC) through implementing various critical reforms in the healthcare system. More Kenyans were put on social insurance, with institutions within the health sector being strengthened to increase their efficiency towards UHC.

**16.2.** National Government expenditure on health services is expected to increase by 16.6 per cent to KSh 110.2 billion in 2021/22 from KSh 94.5 billion in 2020/21. The proportion of National Government expenditure on health to total National Government expenditure stood at 3.3 per cent in 2020/21. County Governments' expenditure on health services was KSh 108.8 billion in 2020/21 and is expected to grow to KSh 116.5 billion in 2021/22. The National Hospital Insurance Fund (NHIF) membership increased by 6.6 per cent to 23.4 million with members' contributions growing by 2.1 per cent to KSh 60.8 billion in 2020/21

**16.3.** The number of health facilities decreased by 3.2 per cent to 14,137 in 2021 from 14,600 in 2020. However, the number of hospital beds and cots increased to 100,183 in 2021 from 91,037 in 2020. Deliveries in health facilities increased by 5.7 per cent to 1.2 million in 2021 with normal deliveries accounting for 82.4 per cent of total deliveries. The number of adolescents presenting with pregnancy at first Anti-Natal Care (ANC) visit declined nationally by 4.4 per cent to 317.6 thousand in 2021. The total number of cases of diseases reported in health facilities increased by 57.2 per cent to 94.3 million in 2021

**16.4.** The number of registered health professionals increased to 222,870 in 2021 from 200,912 in 2020. The number of middle level medical graduates at Kenya Medical Training College (KMTC) increased by more than three times from 4,114 in the 2019/20 academic year to 12,437 in the 2020/21 academic year. The total number of university undergraduate and postgraduate health science students increased by 4.3 per cent to 23,164 while the total number of medical graduates and post-graduates increased by more than two-fold to 3,399 in 2021.

**16.5.** The number of registered births increased from 1.1 million in 2020 to 1.2 million in 2021. On the other hand, a total of 231.9 thousand deaths were



registered in 2021 compared to 185.4 thousand in 2020 with more than half of the reported deaths occurring in a health facility. Birth registration coverage for 2021 was 86.0 per cent compared to 83.0 per cent recorded in 2020. Death registration coverage increased from 37.0 per cent in 2020 to 55.4 per cent in 2021.

### Government Expenditure on Health Services

**16.6.** Table 16.1 presents National Government expenditure on health services for the period 2017/18

to 2021/22. National Government expenditure on health services is expected to increase by 16.6 per cent to KSh 110.2 billion in 2021/22 from KSh 94.5 billion in 2020/21. Recurrent expenditure on health services is expected to decrease by 14.7 per cent from KSh 48.9 billion in 2020/21 to KSh 41.7 billion in 2021/22. Development expenditure on health services is expected to increase by 50.2 per cent from KSh 45.6 billion in 2020/21 to KSh 68.5 billion in 2021/22.

**Table 16.1: National Government Expenditure on Health Services, 2017/18 – 2021/22**

|                                  | 2017/18             | 2018/19             | 2019/20             | 2020/21*            | KSh Million<br>2021/22† |
|----------------------------------|---------------------|---------------------|---------------------|---------------------|-------------------------|
| <b>Recurrent</b>                 |                     |                     |                     |                     |                         |
| Outpatient services              | 804.9               | 2,650.0             | 2,633.7             | 3,392.2             | 2,749.5                 |
| Hospital services                | 13,618.6            | 22,952.4            | 27,496.3            | 26,898.5            | 24,328.2                |
| Public health services           | 7,735.6             | 9,897.8             | 12,740.0            | 3,969.8             | 1,720.2                 |
| Health expenditure n.e.c         | 6,476.3             | 6,971.9             | 18,517.6            | 14,623.3            | 12,875.1                |
| <b>Sub-Total</b>                 | <b>28,635.3</b>     | <b>42,472.1</b>     | <b>61,387.6</b>     | <b>48,883.8</b>     | <b>41,672.9</b>         |
| <b>Development</b>               |                     |                     |                     |                     |                         |
| Outpatient services              | 8,368.2             | 9,364.0             | 6,681.2             | 7,108.5             | 9,071.1                 |
| Hospital services                | 503.1               | 487.2               | 2,349.7             | 1,562.5             | 2,577.1                 |
| Public health services           | 23,067.2            | 23,993.1            | 32,233.2            | 31,595.0            | 46,195.7                |
| Health expenditure n.e.c         | 1,267.5             | 367.6               | 1,507.0             | 5,371.4             | 10,635.7                |
| <b>Sub-Total</b>                 | <b>33,206.0</b>     | <b>34,211.9</b>     | <b>42,771.1</b>     | <b>45,637.4</b>     | <b>68,479.6</b>         |
| <b>TOTAL</b>                     | <b>61,841.3</b>     | <b>76,684.0</b>     | <b>104,158.8</b>    | <b>94,521.2</b>     | <b>110,152.6</b>        |
| <b>TOTAL OUTLAYS<sup>1</sup></b> | <b>2,576,065.00</b> | <b>2,944,798.04</b> | <b>2,999,607.35</b> | <b>3,291,828.39</b> | <b>3,416,797.68</b>     |

Source: National Treasury

\*Provisional

†Estimates

<sup>1</sup> Source Chapter 5

**16.7.** County Governments' expenditure on health services from 2017/18 to 2021/22 is presented in Table 16.2. Expenditure on health services by County Governments has been on the rise over the last five years and is expected to rise by 7.1 per cent to KSh 116.5 billion in 2021/22 from KSh 108.8 billion in 2020/21. The recurrent expenditure on health ser-

vices by County Governments in 2020/21 was KSh 90.6 billion and is expected to grow by 2.2 per cent to KSh 92.6 billion in 2021/22. Development expenditure by County Governments on health services is expected to increase by 30.6 per cent from KSh 18.3 billion in 2020/21 to KSh 23.9 billion in 2021/22.

**Table 16.2: County Governments' Expenditure on Health Services, 2017/18 – 2021/22**

|                                      | 2017/18           | 2018/19           | 2019/20           | 2020/21*          | 2021/22+          |
|--------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Recurrent                            | 71,813.3          | 75,940.0          | 89,139.2          | 90,554.6          | 92,625.9          |
| Development                          | 12,165.0          | 16,083.6          | 17,588.0          | 18,284.0          | 23,902.9          |
| <b>TOTAL</b>                         | <b>83,978.3</b>   | <b>92,023.6</b>   | <b>106,727.1</b>  | <b>108,838.6</b>  | <b>116,528.7</b>  |
| <b>TOTAL EXPENDITURE<sup>1</sup></b> | <b>336,397.48</b> | <b>405,531.74</b> | <b>417,153.55</b> | <b>425,039.63</b> | <b>514,271.66</b> |

Source: *The National Treasury*

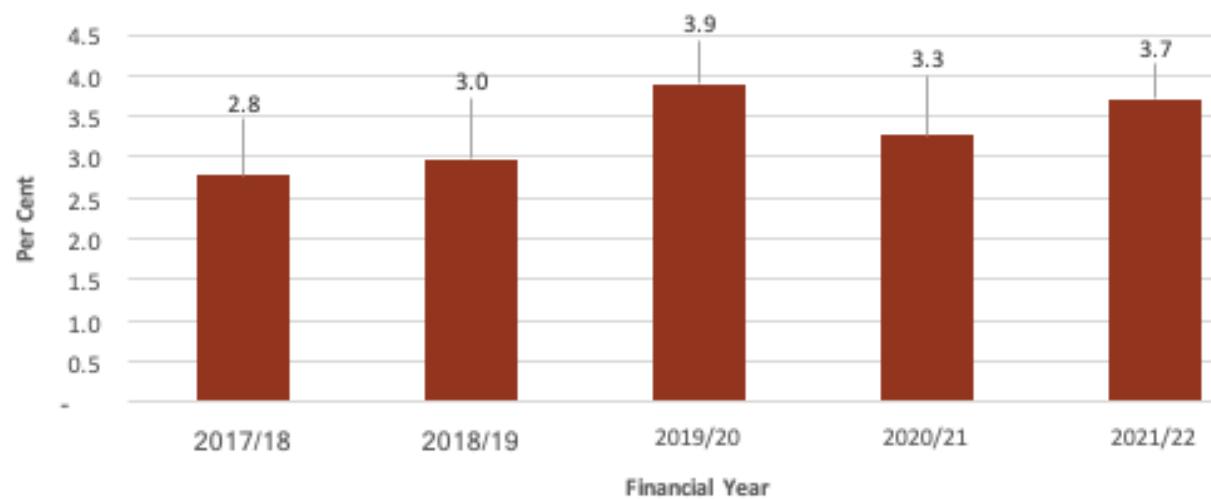
\*Provisional

<sup>1</sup>Estimates

<sup>1</sup>Source chapter 5

**16.8.** The share of National Government expenditure on health to total National Government expenditure for the period 2017/18 to 2021/22 is shown in Figure 16.1. The ratio of National Government expenditure

on health to total National Government expenditure was 3.3 per cent in 2020/21 and is expected to increase to 3.7 in 2021/22.

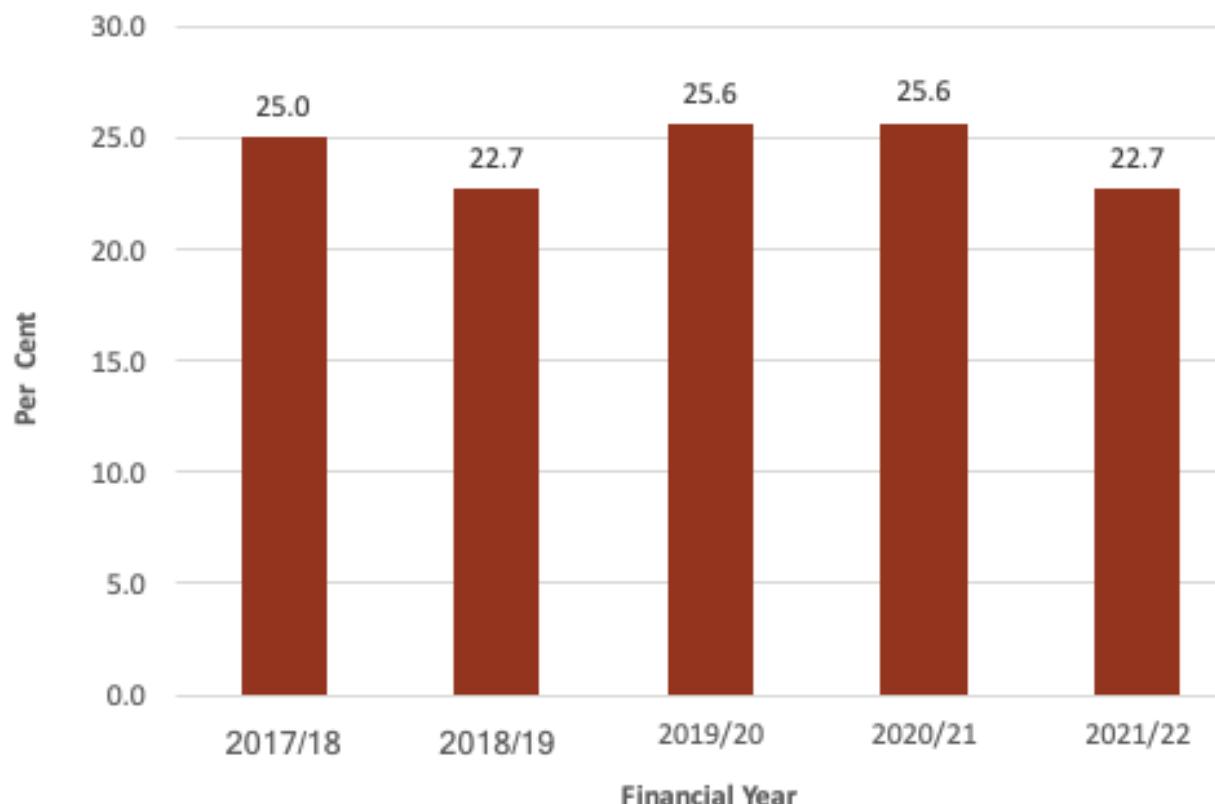
**Figure 16.1: Share of Total National Government Expenditure on Health to Total National Government Expenditure, 2017/18 – 2021/22**

Note: Total National Government Expenditure excludes funds transfers to the County Governments

**16.9.** Figure 16.2 shows County Governments' share on health expenditure to total county governments' expenditure for the period 2017/18 to 2022. The share on County Governments' expenditure on health

to total county governments' expenditure is expected to decline from 25.6 per cent in 2020/21 to 22.7 per cent in 2021/22.

**Figure 16.2: Share of County Governments' Expenditure on Health to Total County Governments' Expenditure, 2017/18 – 2021/22**



#### National Hospital Insurance Fund (NHIF)

**16.10.** The membership of the NHIF for the period 2016/17 to 2020/21 is shown in Table 16.3. Total membership comprising of principal members and their dependents increased by 6.64 per cent from

22.0 million in 2019/20 to 23.4 million in 2020/21. The principal members comprised of 43.2 per cent of the total members during the period under review.

**Table 16.3: NHIF Principal Members and Dependents, 2016/17 -2020/21**

| <b>Members</b>                 | <b>2016/17</b>    | <b>2017/18</b>    | <b>2018/19</b>    | <b>2019/20</b>    | <b>Number<br/>2020/21*</b> |
|--------------------------------|-------------------|-------------------|-------------------|-------------------|----------------------------|
| Principal Members <sup>1</sup> | 6,729,281         | 7,554,025         | 8,959,350         | 9,501,085         | 10,128,821                 |
| Dependents <sup>2</sup>        | 8,849,005         | 9,933,543         | 11,781,545        | 12,493,926        | 13,319,399                 |
| <b>Total</b>                   | <b>15,578,286</b> | <b>17,487,568</b> | <b>20,740,895</b> | <b>21,995,012</b> | <b>23,448,220</b>          |

Source: National Hospital Insurance Fund

\* Provisional

<sup>1</sup>A registered NHIF contributor

<sup>2</sup>A declared child or spouse of a member

**16.11.** The NHIF principal members by sector for the period 2016/17 to 2020/21 is presented in Table 16.4. During the period under review, membership in the informal sector grew by 10.5 per cent while a 2.2 per cent growth was recorded in the formal sector. In 2021, membership in the informal sector accounted

for 55.2 per cent of the total membership. The formal sector was dominated by the private members at 74.4 per cent while the informal sector was dominated by the micro-insurance sector members at 85.3 per cent in 2020/21.

**Table 16.4: NHIF Principal Members by Sector, 2016/17 – 2020/21**

| <b>Sector</b>                  | <b>2016/17</b>   | <b>2017/18</b>   | <b>2018/19</b>   | <b>2019/20</b>   | <b>Number<br/>2020/21*</b> |
|--------------------------------|------------------|------------------|------------------|------------------|----------------------------|
| <b>Formal</b>                  |                  |                  |                  |                  |                            |
| Private                        | 2,812,730        | 2,926,262        | 3,175,400        | 3,285,334        | 3,368,082                  |
| Public                         | 970,395          | 1,021,248        | 1,108,910        | 1,154,348        | 1,169,515                  |
| <b>Sub-Total</b>               | <b>3,783,125</b> | <b>3,947,510</b> | <b>4,284,310</b> | <b>4,439,682</b> | <b>4,537,597</b>           |
| <b>Informal</b>                |                  |                  |                  |                  |                            |
| Micro-Insurance <sup>1</sup>   | 2,493,439        | 2,905,905        | 3,907,017        | 4,262,354        | 4,769,323                  |
| Sponsored Progams <sup>2</sup> | 452,717          | 700,610          | 768,023          | 799,049          | 821,901                    |
| <b>Sub-Total</b>               | <b>2,946,156</b> | <b>3,606,515</b> | <b>4,675,040</b> | <b>5,061,403</b> | <b>5,591,224</b>           |
| <b>Total</b>                   | <b>6,729,281</b> | <b>7,554,025</b> | <b>8,959,350</b> | <b>9,501,085</b> | <b>10,128,821</b>          |

Source: National Hospital Insurance Fund

\* Provisional

<sup>1</sup>Members in the informal sector paying for themselves a monthly contribution fixed at KSh 500

<sup>2</sup> Members whose NHIF contributions are paid by donors, well-wishers, National and County Governments or development partners.

**16.12.** Table 16.5 presents annual NHIF members contributions and payouts for the period 2016/17 to 2020/21. Members' contributions grew by 2.1 per cent to KSh 60.8 billion while the amount of benefits payout increased by 1.1 per cent to KSh 54.1 billion in 2020/21. The proportion of payouts to receipts decreased from 89.9 per cent in 2019/20 to 89.0 per cent in 2020/21.

**Table 16.5: Annual NHIF Contributions (Receipts) and Benefits Paid Out, 2016/17-2020/21**

|                              | 2016/17         | 2017/18         | 2018/19         | 2019/20         | KSh million<br>2020/21* |
|------------------------------|-----------------|-----------------|-----------------|-----------------|-------------------------|
| Members Contribution         |                 |                 |                 |                 |                         |
| National Scheme <sup>1</sup> | 29,858.6        | 33,041.6        | 30,971.8        | 31,255.0        | 31,621.3                |
| Other Schemes <sup>2</sup>   | 5,213.0         | 12,368.3        | 25,315.3        | 28,245.5        | 29,154.1                |
| <b>Total</b>                 | <b>35,071.6</b> | <b>45,409.9</b> | <b>56,287.1</b> | <b>59,500.5</b> | <b>60,775.4</b>         |
| Benefits paid out            |                 |                 |                 |                 |                         |
| National Scheme <sup>1</sup> | 21,963.8        | 29,486.9        | 37,716.1        | 29,071.1        | 28,236.1                |
| Other Schemes <sup>2</sup>   | 4,560.3         | 9,574.4         | 15,708.5        | 24,391.5        | 25,825.7                |
| <b>Total</b>                 | <b>26,524.1</b> | <b>39,061.3</b> | <b>53,424.6</b> | <b>53,462.6</b> | <b>54,061.8</b>         |
| Payout ratio (%)             | 75.6            | 86.1            | 94.9            | 89.9            | 89                      |

Source: National Hospital Insurance Fund

\* Provisional

<sup>1</sup>Contributions and benefits package are negotiated between the Government and NHIF. It covers formal and informal sectors.

<sup>2</sup>Contributions and benefits package are negotiated between interested institutions and NHIF. It is exclusively for the formal sector and offers benefits on top of those provided by the national scheme

## Health Infrastructure

**16.13.** Table 16.6 shows the number of health facilities by level, type and ownership from 2017 to 2021. There was a decline in the total number of health facilities from 14,600 in 2020 to 14,137 in 2021. This was partly due to closure of some level 2 and level 3 facilities. During the review period, level 2 facilities which comprise of dispensaries, medical clinics and the stand-alone accounted for 77.4 per cent of all health facilities. Government owned 85.8 per cent of the dispensaries while, 94.0 per cent of the medical clinics were owned by the private sector in 2021. Medical centres, health centres and nursing homes which constitute level 3 health facilities accounted for

16.0 per cent of the total facilities in 2021. Hospitals, which are levels 4, 5 and 6, accounted for 6.5 per cent of the total facilities. Level 4 and level 5 hospitals increased to 895 and 20, respectively, while level 6 remained constant at 6 in the review period.



**Medical centres, health centres and nursing homes which constitute level 3 health facilities accounted for 16.0 per cent of the total facilities in 2021**

**Table 16.6: Operational Health Facilities by Level, Type and Ownership, 2017 – 2021**

| KEPH Level <sup>1</sup> | Type of Health Facility                  | Ownership | Number        |               |               |               |               |  |
|-------------------------|--|-----------|---------------|---------------|---------------|---------------|---------------|--|
|                         |  |           | 2017          | 2018          | 2019          | 2020          | 2021*         |  |
| Level 2                 | Dispensary                               | MoH       | 4,350         | 4,459         | 4,652         | 4,818         | 4,902         |  |
|                         |  | Private   | 126           | 138           | 147           | 153           | 118           |  |
|                         |  | FBO       | 812           | 819           | 829           | 843           | 661           |  |
|                         |  | NGO       | 21            | 23            | 27            | 36            | 35            |  |
|                         | Sub-Total                                |           | 5,309         | 5,439         | 5,655         | 5,850         | 5,716         |  |
|                         | Medical Clinic                           | MoH       | 11            | 13            | 14            | 20            | 31            |  |
|                         |  | Private   | 3,902         | 4,193         | 4,427         | 4,890         | 4,619         |  |
|                         |  | FBO       | 11            | 16            | 17            | 23            | 49            |  |
|                         |  | NGO       | 233           | 238           | 240           | 245           | 217           |  |
|                         | Sub-Total                                |           | 4,157         | 4,460         | 4,698         | 5,178         | 4,916         |  |
|                         | Stand Alone                              | MoH       | 34            | 34            | 34            | 35            | 39            |  |
|                         |  | Private   | 143           | 149           | 169           | 188           | 172           |  |
|                         |  | FBO       | 22            | 22            | 22            | 22            | 20            |  |
|                         |  | NGO       | 86            | 90            | 93            | 99            | 80            |  |
| Sub-Total               |  |           | 285           | 295           | 318           | 344           | 311           |  |
| <b>Total</b>            |  |           | <b>9,751</b>  | <b>10,194</b> | <b>10,671</b> | <b>11,372</b> | <b>10,943</b> |  |
| Level 3                 | Medical Centre                           | MoH       | 0             | 0             | 0             | 0             | 0             |  |
|                         |  | Private   | 469           | 582           | 685           | 719           | 533           |  |
|                         |  | FBO       | 3             | 7             | 8             | 9             | 10            |  |
|                         |  | NGO       | 21            | 23            | 24            | 18            | 13            |  |
|                         | Sub-Total                                |           | 493           | 612           | 717           | 746           | 556           |  |
|                         | Health Centre                            | MoH       | 1,023         | 1,028         | 1,039         | 1,093         | 1,109         |  |
|                         |  | Private   | 11            | 12            | 13            | 14            | 15            |  |
|                         |  | FBO       | 201           | 202           | 204           | 214           | 192           |  |
|                         |  | NGO       | 37            | 37            | 39            | 47            | 33            |  |
|                         | Sub-Total                                |           | 1,272         | 1,279         | 1,295         | 1,368         | 1,349         |  |
|                         | Nursing Home                             | MoH       | 0             | 0             | 0             | 0             | 0             |  |
|                         |  | Private   | 214           | 249           | 286           | 226           | 358           |  |
|                         |  | FBO       | 5             | 5             | 5             | 5             | 4             |  |
|                         |  | NGO       | 8             | 9             | 10            | 10            | 6             |  |
| Sub-Total               |  |           | 227           | 263           | 301           | 241           | 368           |  |
| <b>Total</b>            |  |           | <b>1,992</b>  | <b>2,154</b>  | <b>2,313</b>  | <b>2,355</b>  | <b>2,273</b>  |  |
| Level 4                 | Primary Care Hospitals                   | MoH       | 353           | 354           | 356           | 357           | 365           |  |
|                         |  | Private   | 231           | 269           | 303           | 373           | 409           |  |
|                         |  | FBO       | 101           | 106           | 109           | 106           | 110           |  |
|                         |  | NGO       | 12            | 12            | 14            | 13            | 11            |  |
|                         | Total                                    |           | 697           | 741           | 782           | 849           | 895           |  |
| Level 5                 | Secondary Care Hospitals                 | MoH       | 13            | 13            | 13            | 13            | 13            |  |
|                         |  | Private   | 2             | 2             | 2             | 2             | 2             |  |
|                         |  | FBO       | 3             | 3             | 3             | 3             | 5             |  |
|                         |  | NGO       | 0             | 0             | 0             | 0             | 0             |  |
|                         | Total                                    |           | 18            | 18            | 18            | 18            | 20            |  |
| Level 6                 | Tertiary Referral Hospitals <sup>2</sup> | MoH       | 6             | 6             | 6             | 6             | 6             |  |
|                         |  | Private   | 0             | 0             | 0             | 0             | 0             |  |
|                         |  | FBO       | 0             | 0             | 0             | 0             | 0             |  |
|                         |  | NGO       | 0             | 0             | 0             | 0             | 0             |  |
|                         | Total                                    |           | 6             | 6             | 6             | 6             | 6             |  |
| <b>Grand total</b>      |  |           | <b>12,464</b> | <b>13,113</b> | <b>13,790</b> | <b>14,600</b> | <b>14,137</b> |  |

Source: Kenya Master Health Facility List, Ministry of Health

\*Provisional

<sup>1</sup>KEPH Level - Kenya Essential Package for Health<sup>2</sup> Comprehensive and Specialized Hospitals

**16.14.** Table 16.7 shows the number of hospital beds and cots by ownership, from 2017 to 2021. The number of hospital beds increased by 10.1 per cent to 90,417 while the number of hospital cots increased by 9.2 per cent to 9,766 in 2021. The number of

hospital beds in public facilities rose from 37,069 in 2020 to 38,132 in 2021 while hospital beds in private hospitals have been increasing steadily over the past five years rising to 36,817 in 2021.

**Table 16.7: Hospital Beds and Cots by Ownership, 2017 - 2021**

| Ownership        | Number |       |        |       |        |       |        |       |        |       |
|------------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|                  | 2017   |       | 2018   |       | 2019   |       | 2020   |       | 2021*  |       |
|                  | Beds   | Cots  |
| Public           | 35,439 | 3,693 | 35,556 | 3,723 | 36,267 | 3,773 | 37,069 | 3,867 | 38,132 | 3,932 |
| Private          | 17,777 | 2,159 | 21,835 | 2,557 | 24,154 | 2,903 | 30,496 | 3,493 | 36,817 | 4,046 |
| FBO <sup>1</sup> | 13,061 | 1,443 | 13,253 | 1,472 | 13,323 | 1,476 | 13,277 | 1,421 | 14,068 | 1,612 |
| NGO <sup>2</sup> | 918    | 127   | 957    | 130   | 1,124  | 151   | 1,249  | 165   | 1,400  | 176   |
| Total            | 67,195 | 7,422 | 71,601 | 7,882 | 74,868 | 8,303 | 82,091 | 8,946 | 90,417 | 9,766 |

Source: Kenya Master Health Facility List (KMHFL), Ministry of Health

\* Provisional

<sup>1</sup>FBO-Faith Based Organization

<sup>2</sup>NGO-Non-Governmental Organization

### Deliveries in Health Facilities

**16.15.** Table 16.8 presents the mode of deliveries in health facilities for the period 2017 to 2021. The total number of deliveries in health facilities increased by 5.7 per cent to 1.2 million in 2021. Normal delivery

increased by 5.2 per cent to 1.0 million while number of deliveries through caesarean section (C-Section) increased by 6.6 per cent to 201.5 thousand in the reporting period.

**Table: 16.8: Mode of Delivery in Health Facilities, 2017 – 2021**

| Mode of delivery                       | Number  |           |           |           |           |
|--|---------|-----------|-----------|-----------|-----------|
|  | 2017    | 2018      | 2019      | 2020      | 2021*     |
| Normal delivery                        | 754,547 | 939,910   | 970,267   | 973,882   | 1,024,816 |
| Breech <sup>1</sup>                    | 6,939   | 9,171     | 8,724     | 9,209     | 9,693     |
| Caesarean Section <sup>2</sup>         | 130,799 | 155,191   | 171,856   | 189,119   | 201,510   |
| Assisted Vaginal Delivery <sup>3</sup> | 6,897   | 3,832     | 4,660     | 4,015     | 7,128     |
| Total                                  | 899,182 | 1,108,104 | 1,155,507 | 1,176,225 | 1,243,147 |

Source: Kenya Health Information System (KHIS/DHIS2), Ministry of Health

\* Provisional

<sup>1</sup>Type of birth where a baby is born with the bottom or feet, rather than the head, emerging first

<sup>2</sup>This is the delivery through a surgical incision in the mother's abdomen and uterus

<sup>3</sup>It is vaginal delivery performed with the help of specially designed instruments, such as a vacuum device or forceps.

### Modern Methods of Contraception

**16.16.** Table 16.9 shows the uptake of modern contraceptives in health facilities for the period 2017 to 2021. The most commonly used method of contraception was Family Planning (FP) Injections with 595.7 thousand new clients and 1.8 million re-visits in 2021. Implants Insertion had the second highest number of new clients at 576.8 thousand while

Pills Combined Oral Contraceptives had the second highest number of re-visits at 475.3 thousand during the review period. Permanent family planning methods recorded low uptake with the number of women undergoing Sterilization Bilateral Tubal Ligation decreasing to 3,616 while male Sterilization Vasectomy recorded 248 clients during the review period.

**Table 16.9: Uptake of Modern Contraceptives in Health Facilities, 2017 - 2021**

| Contraceptive Method              | 2017      | 2018      | 2019      | 2020      | Number<br>2021* |
|-----------------------------------|-----------|-----------|-----------|-----------|-----------------|
| FP Injections <sup>1</sup>        |           |           |           |           |                 |
| New clients                       | 546,370   | 694,486   | 714,518   | 616,529   | 595,703         |
| Re-visits                         | 1,492,329 | 1,783,518 | 1,879,317 | 1,649,594 | 1,837,945       |
| IUCD Insertion <sup>2</sup>       |           |           |           |           |                 |
| New clients                       | 156,319   | 187,558   | 174,142   | 111,977   | 81,705          |
| Re-visits                         | 61,805    | 80,409    | 78,366    | 48,151    | 26,095          |
| Implants Insertion                |           |           |           |           |                 |
| New clients                       | 369,137   | 498,018   | 514,213   | 376,242   | 576,795         |
| Re-visits                         | 123,214   | 194,236   | 218,768   | 160,760   | 225,711         |
| Pills Combined Oral Contraceptive |           |           |           |           |                 |
| New clients                       | 101,151   | 173,501   | 237,743   | 249,637   | 270,328         |
| Re-visits                         | 188,659   | 268,030   | 378,651   | 431,981   | 475,308         |
| Pills Progestin Only              |           |           |           |           |                 |
| New clients                       | 73,953    | 86,602    | 92,924    | 121,518   | 136,013         |
| Re-visits                         | 64,896    | 74,813    | 78,673    | 106,685   | 138,164         |
| Sterilization BTL <sup>3</sup>    |           |           |           |           |                 |
| New clients                       | 9,149     | 10,814    | 8,971     | 4,435     | 3,616           |
| Sterilization Vasectomy           |           |           |           |           |                 |
| New clients                       | 807       | 646       | 658       | 334       | 248             |

Source: Kenya Health Information System (KHIS/DHIS2), Ministry of Health

\* Provisional

<sup>1</sup>FP - Family Planning

<sup>2</sup>IUCD - Intrauterine Contraceptive Device (also known as coil)

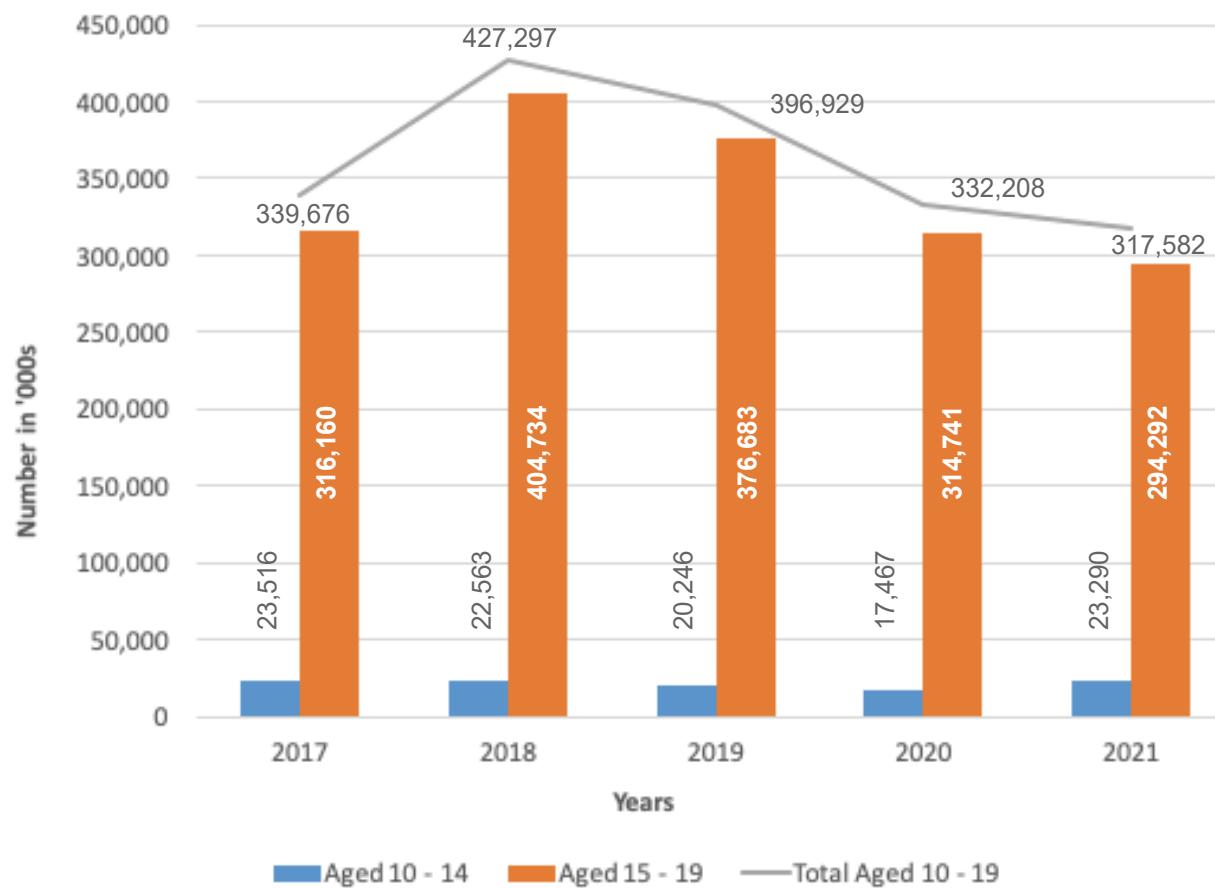
<sup>3</sup>BTL - Bilateral Tubal Ligation

### Teenage Pregnancy

**16.17.** The trend in the number of adolescents (10–19 years) presenting with pregnancy at first Ante-Natal Care (ANC) visit for the period 2017 to 2021 is presented in Figure 16.3. The number of adolescents presenting with pregnancy at first ANC visit declined nationally by 4.4 per cent to 317.6 thousand

in 2021 compared with a decline of 16.3 per cent decline realised in 2020. The number adolescents of age 15 -19 years presenting with pregnancy at first Ante-Natal Care (ANC) visit declined to 294,292 while those aged 10-14 years increased from 17,467 in 2020 to 23,290 in 2021.

**Figure 16.3: Number of Adolescents presenting with Pregnancy at 1st ANC Visit, 2017-2021**



## Morbidity

**16.18.** Table 16.10 presents outpatient disease case-loads during the period 2017 to 2021 as reported in health facilities. The total cases of diseases reported in health facilities increased by 57.2 per cent from 60.0 million in 2020 to 94.3 million in 2021. Diseases of the respiratory system and malaria accounted

for 21.9 per cent and 15.2 per cent of the total disease caseload, in 2021 respectively. The increase in the number of cases reported in the year 2021 indicates a recovery in the uptake of health services from health facilities compared to the year 2020.

**Table 16.10: Cases of Diseases Reported in Health Facilities, 2017-2021**

| Disease                             | 2017              |              | 2018              |              | 2019              |              | 2020              |              | 2021*             |              |
|-------------------------------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|-------------------|--------------|
|                                     | Number            | %            |
| Disease of the Respiratory System   | 14,482,269        | 31.3         | 21,957,171        | 29.3         | 21,974,043        | 25.0         | 16,562,227        | 27.6         | 20,613,455        | 21.9         |
| Malaria                             | 7,958,213         | 17.2         | 10,020,721        | 13.4         | 13,073,008        | 14.9         | 11,460,477        | 19.1         | 14,331,877        | 15.2         |
| Diseases of the Skin (Incl. Ulcers) | 3,261,935         | 7.0          | 4,372,923         | 5.8          | 4,452,158         | 5.1          | 4,272,067         | 7.1          | 3,664,898         | 3.9          |
| Diarrhoea Diseases                  | 2,601,827         | 5.6          | 3,069,095         | 4.1          | 3,564,833         | 4.1          | 2,626,159         | 4.4          | 3,259,417         | 3.5          |
| Urinary Tract Infections            | 1,555,733         | 3.4          | 2,188,576         | 2.9          | 2,517,536         | 2.9          | 2,490,689         | 4.2          | 2,567,446         | 2.7          |
| Pneumonia                           | 1,208,592         | 2.6          | 1,776,108         | 2.4          | 1,968,554         | 2.2          | 1,562,970         | 2.6          | 2,152,687         | 2.3          |
| Injuries (Road Trafic Accident)     | 1,135,456         | 2.5          | 411,704           | 0.6          | 480,993           | 0.5          | 247,252           | 0.4          | 243,391           | 0.3          |
| Rheumatism, Joint pains etc         | 1,246,731         | 2.7          | 1,825,551         | 2.4          | 2,182,264         | 2.5          | 2,367,990         | 3.9          | 550,522           | 0.6          |
| Intestinal Worms                    | 763,635           | 1.7          | 1,182,013         | 1.6          | 1,236,924         | 1.4          | 1,099,106         | 1.8          | 957,619           | 1.0          |
| Eye Infection/ Condition            | 656,451           | 1.4          | 939,572           | 1.3          | 1,013,862         | 1.2          | 1,120,623         | 1.9          | 1,301,895         | 1.4          |
| All Other Diseases                  | 11,400,776        | 24.6         | 27,069,439        | 36.2         | 35,303,784        | 40.2         | 16,193,186        | 27.0         | 44,655,884        | 47.4         |
| <b>TOTAL</b>                        | <b>46,271,618</b> | <b>100.0</b> | <b>74,812,873</b> | <b>100.0</b> | <b>87,767,959</b> | <b>100.0</b> | <b>60,002,746</b> | <b>100.0</b> | <b>94,299,091</b> | <b>100.0</b> |

Source: Kenya Health Information System (KHIS/DHIS2), Ministry of Health

\* Provisional

### COVID-19 Pandemic

**16.19.** Table 16.11 presents the cumulative number of confirmed positive cases and deaths due to COVID-19 by month for 2020 and 2021. Nationally, the cumulative number of confirmed COVID-19 cases as of December 2021 was 297,279 while cumulative deaths were 4,835 during the same period. The number of confirmed positive cases more than

doubled to 200,667 in 2021 from 96,612 reported in 2020. The number of confirmed COVID-19 related deaths in 2021 was 3,079 up from 1,756 in 2020. The peak months for the positive cases and the confirmed deaths were December and March, 2021, respectively.

**Table 16.11: Confirmed COVID-19 Positive Cases and Deaths by Month, 2020 - 2021**

| Month               | 2020                       |                    | 2021*                      |                    | <i>Number</i> |
|---------------------|----------------------------|--------------------|----------------------------|--------------------|---------------|
|                     | Cummulative Positive Cases | Cummulative Deaths | Cummulative Positive Cases | Cummulative Deaths |               |
| January             | 0                          | 0                  | 4,251                      | 78                 |               |
| February            | 0                          | 0                  | 9,526                      | 233                |               |
| March               | 84                         | 5                  | 38,489                     | 875                |               |
| April               | 434                        | 23                 | 63,564                     | 1,384              |               |
| May                 | 2,128                      | 80                 | 74,597                     | 1,555              |               |
| June                | 6,851                      | 205                | 88,049                     | 1,765              |               |
| July                | 21,445                     | 522                | 107,192                    | 2,126              |               |
| August              | 34,301                     | 770                | 140,393                    | 2,644              |               |
| September           | 38,713                     | 898                | 153,237                    | 2,902              |               |
| October             | 55,870                     | 1,205              | 156,851                    | 2,966              |               |
| November            | 84,166                     | 1,593              | 158,676                    | 2,991              |               |
| As at 31st December | 96,612                     | 1,756              | 200,667                    | 3,079              |               |

Source: Kenya Health and Research Observatory (KHRO), Ministry of Health

\* Provisional

### Health Professionals

**16.20.** The number of registered health professionals by cadre from 2017 to 2021 are shown in Table 16.12. The number of registered health professionals in all cadres increased during the period under review. The proportion of registered professionals per 100,000 population went up for all the cadres

of registered health professionals except dentists which remained constant at 2.8. Registered nurses had the highest ratio of 155.9 per 100,000 population while physiotherapists (degree) had the lowest ratio at 0.7 per 100,000 population in 2021.

**Table 16.12: Registered Health Professionals by Cadre, 2017-2021**

| Professional by Cadre                         | 2017   |                            | 2018   |                            | 2019   |                            | 2020   |                            | 2021*  |                            |
|---|--------|----------------------------|--------|----------------------------|--------|----------------------------|--------|----------------------------|--------|----------------------------|
|   | Number | No. Per 100,000 Population |
| <b>Medical Practitioners and Dentists</b>     |        |                            |        |                            |        |                            |        |                            |        |                            |
| Medical Officers                              | 10,922 | 24.1                       | 11,647 | 25.1                       | 12,090 | 25.4                       | 12,792 | 26.3                       | 13,376 | 27.1                       |
| Dentists                                      | 1,211  | 2.7                        | 1,257  | 2.7                        | 1,288  | 2.7                        | 1,344  | 2.8                        | 1,396  | 2.8                        |
| <b>Pharmacists and Pharmtechs</b>             |        |                            |        |                            |        |                            |        |                            |        |                            |
| Pharmacists                                   | 3,373  | 7.4                        | 3,512  | 7.6                        | 3,825  | 8.0                        | 4,069  | 8.4                        | 4,285  | 8.7                        |
| Pharmaceutical Technologists                  | 9,358  | 20.6                       | 10,126 | 21.8                       | 10,815 | 22.7                       | 11,429 | 23.5                       | 12,036 | 24.4                       |
| <b>Nurses</b>                                 |        |                            |        |                            |        |                            |        |                            |        |                            |
| Graduate Nurses                               | 4,819  | 10.6                       | 5,961  | 12.8                       | 7,242  | 15.2                       | 7,959  | 16.3                       | 9,112  | 18.5                       |
| Registered Nurses                             | 51,420 | 113.2                      | 57,564 | 123.9                      | 58,247 | 122.5                      | 63,580 | 130.6                      | 76,878 | 155.9                      |
| Enrolled Nurses                               | 23,068 | 50.8                       | 23,783 | 51.2                       | 28,822 | 60.6                       | 38,120 | 78.3                       | 38,776 | 78.6                       |
| <b>Clinical Officers</b>                      |        |                            |        |                            |        |                            |        |                            |        |                            |
| Graduate Clinical Officers                    | 285    | 0.6                        | 428    | 0.9                        | 608    | 1.3                        | 715    | 1.5                        | 896    | 1.8                        |
| Diploma Clinical Officers                     | 18,396 | 40.5                       | 20,216 | 43.5                       | 21,131 | 44.4                       | 22,930 | 47.1                       | 24,481 | 49.7                       |
| <b>Public Health Officers and Technicians</b> |        |                            |        |                            |        |                            |        |                            |        |                            |
| Public Health Officers                        | 3,064  | 6.7                        | 3,506  | 7.5                        | 4,390  | 9.2                        | 5,824  | 12.0                       | 6,887  | 14.0                       |
| Public Health Technicians                     | 717    | 1.6                        | 1,029  | 2.2                        | 1,328  | 2.8                        | 1,614  | 3.3                        | 1,664  | 3.4                        |
| <b>Medical Laboratory Techs</b>               |        |                            |        |                            |        |                            |        |                            |        |                            |
| Laboratory Technologists                      | 10,603 | 23.3                       | 11,687 | 25.1                       | 13,144 | 27.6                       | 14,219 | 29.2                       | 15,635 | 31.7                       |
| Laboratory Technicians                        | 3,062  | 6.7                        | 3,602  | 7.8                        | 3,886  | 8.2                        | 3,979  | 8.2                        | 4,160  | 8.4                        |
| <b>Nutritionists and Dieticians</b>           |        |                            |        |                            |        |                            |        |                            |        |                            |
| Nutritionists and Dieticians                  | 2,106  | 4.6                        | 3,066  | 6.6                        | 3,570  | 7.5                        | 3,795  | 7.8                        | 4,235  | 8.6                        |
| Nutrition and Dietetic Technologists          | 3,122  | 6.9                        | 4,430  | 9.5                        | 5,282  | 11.1                       | 5,775  | 11.9                       | 6,340  | 12.9                       |
| Nutrition and Dietetic Technicians            | 619    | 1.4                        | 813    | 1.7                        | 921    | 1.9                        | 951    | 2.0                        | 1,046  | 2.1                        |
| <b>Physiotherapists</b>                       |        |                            |        |                            |        |                            |        |                            |        |                            |
| Physiotherapists (Diploma)                    | ..     | ..                         | 846    | 1.8                        | 1,147  | 2.4                        | 1,521  | 3.1                        | 1,687  | 3.4                        |
| Physiotherapists (Degree)                     | ..     | ..                         | 201    | 0.4                        | 258    | 0.5                        | 296    | 0.6                        | 335    | 0.7                        |

Source: Health Regulatory Bodies

\* Provisional

.. Data not available

### Medical Training

**16.21.** Table 16.13 shows the number of middle level medical graduates by course and sex from Kenya Medical Training College (KMTC) from 2016/17 to 2020/21 academic years. The number of middle level medical graduates increased by more than threefold from 4,114 in the 2019/20 academic year to 12,437 in the 2020/21 academic year. This increase is attributable to more students graduating in April, 2021 after failure to take up exams and graduate in 2020. Female graduates accounted for 53.2 per cent of the

graduates in the 202/21 academic year. Majority of the graduates were diploma holders accounting for 70.7 per cent of the graduates in the period under review. The number of graduates who attained certificates increased by almost three times to 2,829 in 2020/21 academic year while the number of graduates with higher diploma more than doubled from 348 in 2019/20 to 816 in 2020/21 academic year. At the higher diploma level, Nursing and Clinical Medicine and Surgery accounted for 71.0 per cent of graduates in the review period.

**Table 16.13: Health Sciences' Middle Level Graduates from KMTC, 2016/17-2020/21**

| Programme                               | 2016/17 |        |       |       |        |       | 2017/18 |        |       |      |        |       | 2018/19 |        |       |      |        |       | 2019/20 |        |       |      |        |  | Number |
|---|---------|--------|-------|-------|--------|-------|---------|--------|-------|------|--------|-------|---------|--------|-------|------|--------|-------|---------|--------|-------|------|--------|--|--------|
|   | Male    | Female | Total | Male  | Female | Total | Male    | Female | Total | Male | Female | Total | Male    | Female | Total | Male | Female | Total | Male    | Female | Total | Male | Female |  |        |
| <b>Certificate in;</b>                  |         |        |       |       |        |       |         |        |       |      |        |       |         |        |       |      |        |       |         |        |       |      |        |  |        |
| Community Health Nursing                | 127     | 119    | 246   | 331   | 283    | 614   | 531     | 270    | 801   | 73   | 83     | 156   | 379     | 332    | 711   |      |        |       |         |        |       |      |        |  |        |
| Medical Engineering                     | 22      | 42     | 64    | 57    | 66     | 123   | 122     | 161    | 283   | 116  | 127    | 243   | 261     | 418    | 679   |      |        |       |         |        |       |      |        |  |        |
| Orthopaedic Plaster Technology          | 75      | 31     | 106   | 54    | 61     | 115   | 82      | 89     | 171   | 31   | 32     | 63    | 137     | 142    | 279   |      |        |       |         |        |       |      |        |  |        |
| Health Records & Information Technology | 481     | 577    | 1,058 | 468   | 1,290  | 1,758 | 270     | 978    | 1,248 | 148  | 293    | 441   | 245     | 548    | 793   |      |        |       |         |        |       |      |        |  |        |
| Environmental Health Sciences           | 71      | 49     | 120   | 116   | 78     | 194   | 48      | 45     | 93    | 15   | 17     | 32    | 47      | 84     | 131   |      |        |       |         |        |       |      |        |  |        |
| Nutrition & Dietetics                   | 133     | 160    | 293   | 85    | 229    | 314   | 75      | 166    | 241   | 22   | 72     | 94    | 53      | 183    | 236   |      |        |       |         |        |       |      |        |  |        |
| Health Promotion for the Deaf           | -       | -      | -     | -     | -      | -     | -       | -      | -     | -    | 2      | 2     | 4       | -      | -     | -    |        |       |         |        |       |      |        |  |        |
| Sub-Total                               | 909     | 978    | 1,887 | 1,111 | 2,007  | 3,118 | 1,128   | 1,709  | 2,837 | 407  | 626    | 1,033 | 1,122   | 1,707  | 2,829 |      |        |       |         |        |       |      |        |  |        |
| <b>Diploma in;</b>                      |         |        |       |       |        |       |         |        |       |      |        |       |         |        |       |      |        |       |         |        |       |      |        |  |        |
| Community Health Nursing                | 1,224   | 1,624  | 2,848 | 1,307 | 1,421  | 2,728 | 1,243   | 2,065  | 3,308 | 583  | 759    | 1,342 | 1,488   | 2,058  | 3,546 |      |        |       |         |        |       |      |        |  |        |
| Nutrition & Dietetics                   | 132     | 190    | 322   | 111   | 275    | 386   | 163     | 351    | 514   | 28   | 57     | 115   | 148     | 323    | 471   |      |        |       |         |        |       |      |        |  |        |
| Environmental Health Sciences           | 270     | 207    | 477   | 171   | 158    | 329   | 231     | 231    | 462   | 61   | 59     | 120   | 92      | 94     | 186   |      |        |       |         |        |       |      |        |  |        |
| Medical Laboratory Sciences             | 218     | 186    | 404   | 208   | 139    | 347   | 240     | 182    | 422   | 148  | 116    | 264   | 137     | 96     | 233   |      |        |       |         |        |       |      |        |  |        |
| Clinical Medicine & Surgery             | 471     | 520    | 991   | 1,155 | 634    | 1,789 | 1,057   | 571    | 1,628 | 90   | 49     | 139   | 1,134   | 666    | 1,800 |      |        |       |         |        |       |      |        |  |        |
| Medical Engineering Technology          | 71      | 22     | 93    | 70    | 22     | 92    | 98      | 41     | 139   | 29   | 4      | 33    | 93      | 96     | 189   |      |        |       |         |        |       |      |        |  |        |
| Community Oral Health                   | 23      | 22     | 45    | 23    | 17     | 40    | 21      | 21     | 42    | 15   | 12     | 27    | 23      | 20     | 43    |      |        |       |         |        |       |      |        |  |        |
| Dental Technology                       | 20      | 13     | 33    | 28    | 17     | 45    | 39      | 27     | 66    | 14   | 5      | 19    | 31      | 19     | 50    |      |        |       |         |        |       |      |        |  |        |
| Health Records & Information Technology | 221     | 202    | 423   | 264   | 255    | 519   | 298     | 412    | 710   | 33   | 75     | 108   | 423     | 651    | 1,074 |      |        |       |         |        |       |      |        |  |        |
| Occupational Therapy                    | 14      | 33     | 47    | 70    | 53     | 123   | 51      | 73     | 124   | 17   | 12     | 29    | 44      | 42     | 86    |      |        |       |         |        |       |      |        |  |        |
| Orthopaedic Technology                  | 17      | 10     | 27    | 16    | 9      | 25    | 12      | 11     | 23    | 11   | 1      | 12    | 17      | 10     | 27    |      |        |       |         |        |       |      |        |  |        |
| Pharmacy                                | 258     | 210    | 468   | 230   | 170    | 400   | 234     | 634    | 102   | 64   | 166    | 211   | 156     | 367    |       |      |        |       |         |        |       |      |        |  |        |
| Physiotherapy                           | 94      | 74     | 168   | 67    | 61     | 128   | 153     | 76     | 229   | 34   | 23     | 57    | 44      | 25     | 69    |      |        |       |         |        |       |      |        |  |        |
| Medical Imaging Sciences                | 88      | 44     | 132   | 82    | 33     | 115   | 133     | 87     | 220   | 40   | 28     | 68    | 159     | 60     | 219   |      |        |       |         |        |       |      |        |  |        |
| Optometry                               | 17      | 11     | 28    | 6     | 9      | 15    | 23      | 14     | 37    | 9    | 6      | 15    | 8       | 4      | 12    |      |        |       |         |        |       |      |        |  |        |
| Mental Health & Psychiatry Nursing      | 59      | 39     | 98    | 35    | 43     | 78    | 190     | 121    | 311   | 38   | 37     | 75    | 69      | 77     | 146   |      |        |       |         |        |       |      |        |  |        |
| Health Education & Promotion            | -       | -      | -     | 47    | 87     | 134   | 152     | 222    | 374   | 18   | 31     | 49    | 50      | 62     | 112   |      |        |       |         |        |       |      |        |  |        |

**Table 16.13: Health Sciences' Middle Level Graduates from KMTC, 2016/17-2020/21 (continued)**

| Programme                                  | 2016/17      |              |              |              |              |               | 2017/18      |              |               |              |              |              | 2018/19      |              |               |      |        |       | 2019/20 |        |       |      |        |       | 2020/21* |   |    |  |  |  |
|--|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|---------------|------|--------|-------|---------|--------|-------|------|--------|-------|----------|---|----|--|--|--|
|  | Male         | Female       | Total        | Male         | Female       | Total         | Male         | Female       | Total         | Male         | Female       | Total        | Male         | Female       | Total         | Male | Female | Total | Male    | Female | Total | Male | Female | Total |          |   |    |  |  |  |
| Orthopaedic and Trauma Medicine            | -            | -            | -            | 22           | 16           | 38            | 67           | 58           | 125           | 42           | 53           | 95           | 87           | 75           | 162           |      |        |       |         |        |       |      |        |       |          |   |    |  |  |  |
| Sub-Total                                  | 3,197        | 3,407        | 6,604        | 3,843        | 3,316        | 7,159         | 4,352        | 4,517        | 8,869         | 1,312        | 1,391        | 2,733        | 4,258        | 4,534        | 8,792         |      |        |       |         |        |       |      |        |       |          |   |    |  |  |  |
| <b>Higher Diploma in;</b>                  |              |              |              |              |              |               |              |              |               |              |              |              |              |              |               |      |        |       |         |        |       |      |        |       |          |   |    |  |  |  |
| Pharmacy                                   | -            | -            | -            | 1            | -            | 1             | -            | -            | -             | -            | -            | -            | -            | -            | -             | -    | -      | -     | -       | -      | -     | -    | -      | -     | -        | - | -  |  |  |  |
| Environmental Health Sciences <sup>1</sup> | 3            | 2            | 5            | -            | -            | -             | -            | 1            | 2             | 3            | -            | -            | -            | -            | -             | -    | -      | -     | -       | -      | -     | -    | -      | -     | 5        | 8 |    |  |  |  |
| Medical Laboratory Sciences <sup>2</sup>   | 4            | 1            | 5            | 5            | 5            | 6             | 11           | 9            | 17            | 26           | -            | -            | -            | -            | -             | -    | -      | -     | -       | -      | -     | -    | -      | 33    | 18       |   |    |  |  |  |
| Nursing <sup>3</sup>                       | 54           | 99           | 153          | 48           | 94           | 142           | 60           | 82           | 142           | 39           | 68           | 107          | 100          | 128          | 228           |      |        |       |         |        |       |      |        |       |          |   | 51 |  |  |  |
| Clinical Medicine & Surgery <sup>4</sup>   | 95           | 41           | 136          | 98           | 64           | 162           | 100          | 68           | 168           | 92           | 72           | 164          | 205          | 145          | 350           |      |        |       |         |        |       |      |        |       |          |   |    |  |  |  |
| Medical Engineering <sup>5</sup>           | 8            | 8            | 16           | 8            | 4            | 12            | 36           | 21           | 57            | -            | -            | -            | -            | -            | -             | -    | -      | -     | -       | -      | -     | -    | -      | 40    | 18       |   |    |  |  |  |
| Medical Imaging Sciences                   | 29           | 11           | 40           | 18           | 8            | 26            | 24           | 10           | 34            | 6            | 3            | 9            | -            | -            | -             | -    | -      | -     | -       | -      | -     | -    | -      | -     | 58       |   |    |  |  |  |
| Community Health & HIV/AIDS Care           | 2            | 2            | 4            | 1            | -            | 1             | -            | 2            | 2             | -            | -            | -            | -            | -            | -             | -    | -      | -     | -       | -      | -     | -    | -      | 4     | 6        |   |    |  |  |  |
| Health Education & Promotion               | -            | -            | -            | 2            | 5            | 7             | -            | -            | -             | -            | -            | -            | -            | -            | -             | -    | -      | -     | -       | -      | -     | -    | -      | -     | -        | - |    |  |  |  |
| Medical Education                          | 14           | 13           | 27           | 27           | 18           | 45            | 27           | 18           | 45            | 21           | 27           | 48           | 38           | 33           | 71            |      |        |       |         |        |       |      |        |       |          |   |    |  |  |  |
| Orthopaedic Manual Therapy                 | 10           | 10           | 20           | 7            | 5            | 12            | 8            | 10           | 18            | -            | -            | -            | -            | -            | -             | -    | -      | -     | -       | -      | -     | -    | -      | 6     | 15       |   |    |  |  |  |
| Health Systems Management                  | 3            | 7            | 10           | -            | -            | -             | 7            | 4            | 11            | 3            | 3            | 6            | 9            | 10           | 19            |      |        |       |         |        |       |      |        |       |          |   |    |  |  |  |
| Orthopaedic Technology (Orthotics)         | -            | -            | -            | -            | -            | -             | -            | -            | -             | -            | 10           | 4            | 14           | -            | -             | -    | -      | -     | -       | -      | -     | -    | -      | -     | -        | - |    |  |  |  |
| Sub-Total                                  | 222          | 194          | 416          | 214          | 204          | 418           | 272          | 234          | 506           | 171          | 177          | 348          | 438          | 378          | 816           |      |        |       |         |        |       |      |        |       |          |   |    |  |  |  |
| <b>Total</b>                               | <b>4,328</b> | <b>4,579</b> | <b>8,908</b> | <b>5,168</b> | <b>5,527</b> | <b>10,868</b> | <b>5,752</b> | <b>6,460</b> | <b>12,711</b> | <b>1,890</b> | <b>2,194</b> | <b>4,114</b> | <b>5,818</b> | <b>6,619</b> | <b>12,437</b> |      |        |       |         |        |       |      |        |       |          |   |    |  |  |  |

**16.22.** The number of Health Sciences' Students enrolled in Public and Private Universities by Course and Sex for the academic years 2017/18 to 2021/22 is shown in Table 16.14. The total number of undergraduate and post-graduate students increased by 4.3 per cent to 23,164 in the 2021/22 academic year. The number of undergraduate students increased by 6.5 per cent to 20,280 while that of postgraduate students decreased by 9.6 per cent to 2,884 in 2021/22. For both undergraduate and post-graduate students, the male students accounted for 57.4 per cent of the total during the review period.

**Table 16.14: Health Sciences' Students Enrollment in Public and Private Universities by Course and Sex as at 31st December, 2017/18–  
2021/22**

| <b>Undergraduate Students</b>    | <b>2017/18</b> |              |               | <b>2018/19</b> |              |               | <b>2019/20</b> |              |               | <b>2020/21</b> |              |               | <b>2021/22*</b> |              |               |
|----------------------------------|----------------|--------------|---------------|----------------|--------------|---------------|----------------|--------------|---------------|----------------|--------------|---------------|-----------------|--------------|---------------|
|                                  | Male           | Female       | Total         | Male            | Female       | Total         |
| Medicine & Surgery               | 1,653          | 1,327        | 2,980         | 2,318          | 1,429        | 3,747         | 3,149          | 1,707        | 4,856         | 2,936          | 1,530        | 4,466         | 3,148           | 1,458        | 4,606         |
| Dental Surgery                   | 119            | 108          | 227           | 182            | 117          | 299           | 193            | 96           | 289           | 231            | 114          | 345           | 193             | 49           | 242           |
| Pharmacy                         | 768            | 573          | 1,341         | 1,032          | 717          | 1,749         | 1,218          | 791          | 2,009         | 1,025          | 609          | 1,634         | 1,505           | 912          | 2,417         |
| Nursing                          | 1,212          | 1,780        | 2,992         | 1,583          | 1,865        | 3,448         | 1,766          | 1,862        | 3,628         | 1,921          | 1,982        | 3,903         | 2,437           | 2,293        | 4,730         |
| Clinical Medicine and Surgery    | 552            | 436          | 988           | 867            | 677          | 1,544         | 1,076          | 793          | 1,869         | 786            | 576          | 1,362         | 890             | 731          | 1,621         |
| Public Health                    | 346            | 348          | 694           | 235            | 218          | 453           | 207            | 188          | 395           | 636            | 473          | 1,109         | 445             | 418          | 863           |
| Medical Laboratory Sciences      | 623            | 469          | 1,092         | 698            | 526          | 1,224         | 613            | 438          | 1,051         | 1,158          | 689          | 1,847         | 1,056           | 667          | 1,723         |
| Nutrition & Dietetics            | 369            | 570          | 939           | 419            | 585          | 1,004         | 274            | 578          | 852           | 250            | 574          | 824           | 247             | 401          | 648           |
| Environmental Health             | 384            | 310          | 694           | 280            | 237          | 517           | 202            | 172          | 374           | 485            | 405          | 890           | 469             | 566          | 1,035         |
| Physiotherapy                    | 118            | 117          | 235           | 76             | 126          | 202           | 151            | 171          | 322           | 191            | 269          | 460           | 197             | 223          | 420           |
| Occupational Therapy             | 24             | 36           | 60            | 19             | 30           | 49            | 11             | 14           | 25            | 29             | 41           | 70            | 72              | 99           | 171           |
| Health Records Management        | 191            | 248          | 439           | 228            | 328          | 556           | 254            | 319          | 573           | 569            | 695          | 1,264         | 554             | 601          | 1,155         |
| Health System Management         | 240            | 281          | 521           | 282            | 367          | 649           | 245            | 241          | 486           | 94             | 74           | 168           | 253             | 202          | 455           |
| Community Health and Development | 252            | 337          | 589           | 237            | 303          | 540           | 164            | 261          | 425           | 293            | 337          | 630           | 68              | 84           | 152           |
| Medical Psychology               | 17             | 28           | 45            | 16             | 23           | 39            | 16             | 5            | 21            | 31             | 37           | 68            | 21              | 21           | 42            |
| Sub-Total                        | 6,868          | 6,968        | 13,836        | 8,472          | 7,548        | 16,020        | 9,539          | 7,636        | 17,175        | 10,635         | 8,405        | 19,040        | 11,555          | 8,725        | 20,280        |
| Postgraduate students            | 1,310          | 841          | 2,151         | 1,713          | 775          | 2,488         | 1,660          | 722          | 2,382         | 1,843          | 1,317        | 3,160         | 1,741           | 1,143        | 2,884         |
| <b>Total</b>                     | <b>8,178</b>   | <b>7,809</b> | <b>15,987</b> | <b>10,185</b>  | <b>8,323</b> | <b>18,508</b> | <b>11,199</b>  | <b>8,358</b> | <b>19,557</b> | <b>12,478</b>  | <b>9,722</b> | <b>22,200</b> | <b>13,296</b>   | <b>9,868</b> | <b>23,164</b> |

Source: Public and Private Universities in Kenya

\*Provisional

.. Data not available

**16.23** Table 16.15 shows the number of Health Sciences' Graduates in Public and Private Universities by Course and Sex for the period 2017/18 to 2021/22. The total number of graduates and post-graduates increased to 3,399 in 2021/22. This was as a result of students whose

graduation had been delayed from the previous academic year graduating within in 2021/22 academic year. Male graduates accounted for 52.4 per cent of the total graduates in 2021/22 academic year.

**Table 16.15: Health Sciences' Graduates in Public and Private Universities by Course and Sex as at 31st December, 2017/18– 2021/22**

| Graduates                        | 2017/18      |              |              | 2018/19      |              |              | 2019/20      |              |              | 2020/21    |            |              | 2021/22*     |              |              | Number |
|----------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|------------|--------------|--------------|--------------|--------------|--------|
|                                  | Male         | Female       | Total        | Male         | Female       | Total        | Male         | Female       | Total        | Male       | Female     | Total        | Male         | Female       | Total        |        |
| Medicine & Surgery               | 212          | 202          | 414          | 225          | 116          | 341          | 335          | 293          | 628          | 65         | 37         | 102          | 276          | 200          | 476          |        |
| Dental Surgery                   | 16           | 17           | 33           | 21           | 15           | 36           | 39           | 30           | 69           | 9          | 12         | 21           | 113          | 71           | 184          |        |
| Pharmacy                         | 168          | 135          | 303          | 208          | 171          | 379          | 136          | 123          | 259          | 35         | 14         | 49           | 118          | 114          | 232          |        |
| Nursing                          | 477          | 656          | 1,133        | 379          | 691          | 1,070        | 403          | 497          | 900          | 97         | 182        | 279          | 305          | 402          | 707          |        |
| Clinical Medicine and Surgery    | 95           | 56           | 151          | 116          | 81           | 197          | 92           | 127          | 219          | 68         | 47         | 115          | 176          | 153          | 329          |        |
| Public Health                    | 234          | 196          | 430          | 267          | 209          | 476          | 188          | 195          | 383          | 65         | 83         | 148          | 103          | 107          | 210          |        |
| Medical Laboratory Sciences      | 275          | 216          | 491          | 286          | 233          | 519          | 160          | 128          | 288          | 56         | 32         | 88           | 178          | 106          | 284          |        |
| Nutrition & Dietetics            | 160          | 305          | 465          | 202          | 283          | 485          | 102          | 254          | 356          | 7          | 35         | 42           | 48           | 90           | 138          |        |
| Environmental Health             | 159          | 136          | 295          | 192          | 158          | 350          | 171          | 164          | 335          | 14         | 28         | 42           | 61           | 40           | 101          |        |
| Physiotherapy                    | 10           | 5            | 15           | 2            | 14           | 16           | 21           | 18           | 39           | 18         | 18         | 36           | 25           | 32           | 57           |        |
| Occupational Therapy             | 4            | 6            | 10           | 15           | 20           | 35           | 9            | 10           | 19           | 7          | 4          | 11           | 9            | 6            | 15           |        |
| Health Records Management        | 51           | 53           | 104          | 67           | 73           | 140          | 86           | 97           | 183          | 37         | 37         | 74           | 13           | 12           | 25           |        |
| Health System Management         | ..           | ..           | ..           | ..           | ..           | ..           | 78           | 66           | 144          | 68         | 40         | 108          | 55           | 27           | 82           |        |
| Community Health and Development | ..           | ..           | ..           | ..           | ..           | ..           | 63           | 115          | 178          | 53         | 75         | 128          | 20           | 19           | 39           |        |
| Sub-Total                        | 1,861        | 1,983        | 3,844        | 1,980        | 2,064        | 4,044        | 1,883        | 2,117        | 4,000        | 599        | 644        | 1,243        | 1,500        | 1,379        | 2,879        |        |
| Postgraduate                     | 163          | 208          | 371          | 210          | 216          | 426          | 312          | 328          | 640          | 181        | 80         | 261          | 280          | 240          | 520          |        |
| <b>Total</b>                     | <b>2,024</b> | <b>2,191</b> | <b>4,215</b> | <b>2,190</b> | <b>2,280</b> | <b>4,470</b> | <b>2,195</b> | <b>2,445</b> | <b>4,640</b> | <b>780</b> | <b>724</b> | <b>1,504</b> | <b>1,780</b> | <b>1,619</b> | <b>3,399</b> |        |

Source: Public and Private Universities in Kenya

\*Provisional

.. Data not available

## Birth Registration

**16.24.** Table 16.16 shows registered births by place of occurrence from 2017 to 2021. Birth registration has been on an upward trajectory since 2017 with more births occurring in health facilities. The proportion of births in health facilities increased slightly

from 97.7 per cent in 2020 to 97.8 per cent in 2021. The proportion of births registered in the community declined from 2.3 per cent in 2020 to 2.2 per cent in 2021.

**Table 16.16: Registered Births by Place of Occurrence, 2017 – 2021**

| Year  | Health Facility births |           | Community births |           | Total (Number) |
|-------|------------------------|-----------|------------------|-----------|----------------|
|       | Number                 | Per cent) | Number           | Per cent) |                |
| 2017  | 854,870                | 92.6      | 68,617           | 7.4       | 923,487        |
| 2018  | 1,078,411              | 94.7      | 60,243           | 5.3       | 1,138,654      |
| 2019  | 1,133,835              | 95.6      | 52,309           | 4.4       | 1,186,144      |
| 2020  | 1,101,248              | 97.7      | 25,514.4         | 2.3       | 1,126,762      |
| 2021* | 1,173,785.8            | 97.8      | 26,404.2         | 2.2       | 1,200,190      |

Source: Civil Registration Services

\*Provisional

**16.25.** Table 16.17 presents information on live births registration completeness by sex of the child. Nationally, there were slightly more male births registered than female births between 2017 and 2021. Male

registered births accounted for 51.0 per cent of births compared to 49.0 per cent for females in 2021. The sex ratio (males per 100 females) increased from 104.0 in 2020 to 104.2 in 2021.

**Table 16.17: Registered Births by Sex, 2017 – 2021**

| Year  | Male    |          | Female    |          | Total (Number) | Sex Ratio (Males Per 100 Females) |
|-------|---------|----------|-----------|----------|----------------|-----------------------------------|
|       | Number  | Per Cent | Number    | Per Cent |                |                                   |
| 2017  | 472,569 | 51.2     | 450,918   | 48.8     | 923,487        | 104.8                             |
| 2018  | 582,895 | 51.2     | 555,759   | 48.8     | 1,138,654      | 104.9                             |
| 2019  | 603,774 | 50.9     | 582,370   | 49.1     | 1,186,144      | 103.2                             |
| 2020  | 575,657 | 51.1     | 551,105   | 48.9     | 1,126,762      | 104.0                             |
| 2021* | 612,097 | 51.0     | 588,093.0 | 49.0     | 1,200,190      | 104.2                             |

Source: Civil Registration Services

\*Provisional

**16.26.** Table 16.18 presents births by age of the mother for the period 2017 to 2021. Early initiation of childbearing has a direct association with the level of fertility in a population. Women aged 20 – 24 years accounted for the highest proportion of registered

births across all the ages followed by women aged 25-29 years in 2021 at 29.4 per cent and 25.1 per cent, respectively in 2021. Adolescents aged 15-19 years accounted for 12.3 per cent of the registered births in the same period.

**Table 16.18: Registered Births by Age of the Mother, 2017 – 2021**

| <b>Age of Mother</b> | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>2021*</b> | <b>Per cent</b> |
|----------------------|-------------|-------------|-------------|-------------|--------------|-----------------|
| <15                  | 0.4         | 0.4         | 0.2         | 0.2         | 0.3          |                 |
| 15 - 19              | 11.7        | 11.8        | 11.8        | 11.0        | 12.3         |                 |
| 20 - 24              | 29.8        | 29.0        | 29.9        | 30.4        | 29.4         |                 |
| 25 - 29              | 27.3        | 26.4        | 25.4        | 25.3        | 25.1         |                 |
| 30 - 34              | 17.6        | 18.5        | 18.2        | 18.7        | 17.5         |                 |
| 35 - 39              | 8.3         | 8.9         | 8.2         | 8.6         | 8.6          |                 |
| 40-44                | 2.1         | 2.4         | 2.4         | 2.3         | 2.1          |                 |
| 45+                  | 0.5         | 0.4         | 0.3         | 0.2         | 0.2          |                 |
| Age not stated       | 2.3         | 2.2         | 3.6         | 3.2         | 4.5          |                 |
| <b>Total</b>         | <b>100</b>  | <b>100</b>  | <b>100</b>  | <b>100</b>  | <b>100</b>   | <b>100</b>      |

Source: Civil Registration Services

\*Provisional

**16.27.** Registered births by marital status of the mother are shown in Table 16.19 from 2017 to 2021. Marriage is one of the most important proximate determinants of fertility because it is an indicator of a woman's exposure to pregnancy. Majority of births were registered among married women (85.9 %)

compared to single women (13.5%). The proportion of live birth registration completeness for divorced and widowed women was 0.2 per cent. Widowed and Divorced women accounted for 0.1 and 0.4 per cent of the births respectively, in 2021.

**Table 16.19: Registered Births by Marital Status of the Mother, 2017 – 2021**

| <b>Marital Status</b>  | <b>2017</b> | <b>2018</b> | <b>2019</b> | <b>2020</b> | <b>2021*</b> | <b>Per Cent</b> |
|------------------------|-------------|-------------|-------------|-------------|--------------|-----------------|
| Married                | 86.4        | 85.4        | 87.3        | 86.9        | 85.9         |                 |
| Single                 | 12.0        | 13.5        | 11.9        | 12.2        | 13.5         |                 |
| Divorced               | 0.1         | 0.1         | 0.1         | 0.1         | 0.1          |                 |
| Widowed                | 0.4         | 0.4         | 0.4         | 0.4         | 0.1          |                 |
| Unknown/ Not Stated    | 1.1         | 0.5         | 0.4         | 0.3         | 0.4          |                 |
| <b>Total (Percent)</b> | <b>100</b>  | <b>100</b>  | <b>100</b>  | <b>100</b>  | <b>100</b>   | <b>100</b>      |

Source: Civil Registration Services

\*Provisional

### Death Registration

**16.28.** Table 16.20 shows the registration of deaths by place of occurrence for the period 2017 to 2021. The place of occurrence is a proxy indicator of the type of registration assistant who notified the occurrence of the death. In 2021, most deaths were registered from health facilities (52.5 %) compared to the community (47.5%). There was a slight decline in

the proportion of registered deaths in health facilities from 53.6 per cent in 2020 to 52.5 per cent in 2021. The proportion of registered deaths from community however increased from 46.4 per cent in 2020 to 47.5 per cent in 2021. The increase could be attributed to the Rapid Mortality Surveillance conducted in 2021.

**Table 16.20: Registered Deaths by Place of Occurrence, 2017 - 2021**

| Year  | Health Facility |            | “Community” <sup>1</sup> |            | Total (Number) |
|-------|-----------------|------------|--------------------------|------------|----------------|
|       | Number          | Proportion | Number                   | Proportion |                |
| 2017  | 101,441         | 53.1       | 89,436                   | 46.9       | 190,877        |
| 2018  | 113,291         | 58.8       | 78,728                   | 41.0       | 192,019        |
| 2019  | 109,480         | 57.2       | 82,015                   | 42.8       | 191,495        |
| 2020+ | 99,355          | 53.6       | 86,030                   | 46.4       | 185,385        |
| 2021* | 121,727         | 52.5       | 110,217                  | 47.5       | 231,944        |

Source: Civil Registration Services

\*Provisional

<sup>1</sup>Community Death Registration are those that occur outside the health facilities

+ Revised

**16.29.** Table 16.21 shows registered deaths by sex for the period, 2017 to 2021. Male death registration increased from 104,832 in 2020 to 131,599 in 2021 while female death registration rose from 80,553

in 2020 to 100,345 in 2021. The registered male deaths accounted for 56.7 per cent of the total deaths registered in 2021.

**Table 16.21: Registered Deaths by Sex, 2017 - 2021**

| Year  | Male    |            | Female  |            | Total (Number) | Sex Ratio (Males Per 100 Females) |
|-------|---------|------------|---------|------------|----------------|-----------------------------------|
|       | Number  | Proportion | Number  | Proportion |                |                                   |
| 2017  | 105,278 | 55.2       | 85,599  | 44.8       | 190,877        | 123                               |
| 2018  | 106,318 | 55.4       | 85,701  | 44.6       | 192,019        | 124                               |
| 2019  | 106,315 | 55.5       | 85,180  | 44.5       | 191,495        | 125                               |
| 2020  | 104,832 | 56.5       | 80,553  | 43.5       | 185,385        | 130                               |
| 2021* | 131,599 | 56.7       | 100,345 | 43.3       | 231,944        | 131                               |

Source: Civil Registration Services

\*Provisional

**16.30.** Table 16.22 presents deaths by sex and age for the period 2017 to 2021. The number of registered deaths was high among males compared to females across all age groups. In 2021, the proportion of males and females who died was highest at the age of 75+ years at 20,289 and 22,782, respectively.

**Table 16.22: Deaths by Age and Sex of the Deceased, 2017 - 2021**

| Age Group      | 2017          |                |                | 2018           |               |                | 2019           |               |                | 2020           |               |                | 2021 *         |                |                |
|----------------|---------------|----------------|----------------|----------------|---------------|----------------|----------------|---------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|
|                | Male          | Female         | Total          | Male           | Female        | Total          | Male           | Female        | Total          | Male           | Female        | Total          | Male           | Female         | Total          |
| Under 1        | 9,484         | 10,411         | 19,895         | 10,598         | 9,752         | 20,350         | 10,655         | 10,175        | 20,830         | 9,409          | 9,947         | 19,356         | 10,462         | 9,959          | 20,421         |
| 1 - 4          | 3,763         | 4,425          | 8,188          | 3,958          | 3,345         | 7,303          | 4,191          | 3,427         | 7,618          | 3,502          | 2,206         | 5,708          | 3,870          | 3,205          | 7,075          |
| 5 - 14         | 3,809         | 4,796          | 8,605          | 7,017          | 5,316         | 12,333         | 3,960          | 3,069         | 7,029          | 3,464          | 2,615         | 6,079          | 3,618          | 2,828          | 6,446          |
| 15 - 24        | 5,366         | 7,011          | 12,377         | 11,383         | 9,026         | 20,409         | 6,074          | 3,988         | 10,062         | 5,955          | 3,617         | 9,572          | 6,878          | 4,128          | 11,006         |
| 25 - 34        | 9,551         | 11,536         | 21,087         | 13,671         | 9,578         | 23,249         | 10,726         | 7,456         | 18,182         | 10,425         | 6,835         | 17,260         | 11,812         | 7,324          | 19,136         |
| 35 - 44        | 9,652         | 13,456         | 23,108         | 12,518         | 8,788         | 21,306         | 12,156         | 7,932         | 20,088         | 12,251         | 7,476         | 19,727         | 14,710         | 8,611          | 23,321         |
| 45 - 54        | 8,365         | 12,414         | 20,779         | 4,558          | 3,680         | 8,238          | 11,091         | 7,032         | 18,123         | 11,599         | 7,220         | 18,819         | 14,455         | 8,565          | 23,020         |
| 55 - 74        | 16,523        | 22,714         | 39,237         | 23,020         | 16,485        | 39,505         | 25,643         | 18,215        | 43,858         | 26,434         | 17,764        | 44,198         | 35,120         | 23,980         | 59,100         |
| 75+            | 19,086        | 18,515         | 37,601         | 19,595         | 19,731        | 39,326         | 20,289         | 22,782        | 43,071         | 19,649         | 21,786        | 41,435         | 28,065         | 29,900         | 57,965         |
| Age Not Stated | -             | -              | -              | -              | -             | -              | 1,083          | 1,551         | 2,634          | 1,833          | 1,398         | 3,231          | 2,609          | 1,845          | 4,454          |
| <b>Total</b>   | <b>85,599</b> | <b>105,278</b> | <b>190,877</b> | <b>106,318</b> | <b>85,701</b> | <b>192,019</b> | <b>105,868</b> | <b>85,627</b> | <b>191,495</b> | <b>104,521</b> | <b>80,864</b> | <b>185,385</b> | <b>131,599</b> | <b>100,345</b> | <b>231,944</b> |

Source: Civil Registration Services

\*Provisional

**16.31.** Table 16.23 presents birth and death registration from 2017 to 2021. The birth coverage rate increased from 82.9 per cent in 2020 to 86.2 per cent in 2021. In 2021, a total of 1.2 million births were registered against 1.4 million expected births.

trend since 2017. However, the coverage increased from 37.0 in 2020 to 55.4 in 2021. Expected deaths increased from 500.8 thousand in 2020 to 505.2 thousand in 2021.

**Expected** births were generated using Age-Specific Fertility rates (ASFRs) derived from the 2019 Population and Housing census data and provisional population projections for 2021.

**16.32.** A total of 231,944 deaths were registered in 2021 compared to 184,185 registered in 2020. Death coverage has been on a declining

**Table 16.23: Trends of birth and death registration in Kenya, 2017-2021**

| Year  | Births     |                 |                     | Deaths     |                 |                     |
|-------|------------|-----------------|---------------------|------------|-----------------|---------------------|
|       | Number     |                 | Coverage (Per Cent) | Number     |                 | Coverage (Per Cent) |
|       | Registered | Expected Births |                     | Registered | Expected Deaths |                     |
| 2017  | 923,487    | 1,515,301       | 60.9                | 190,877    | 463,607         | 41.2                |
| 2018  | 1,138,654  | 1,551,693       | 73.4                | 192,019    | 473,927         | 40.5                |
| 2019  | 1,186,144  | 1,556,157       | 76.2                | 191,495    | 489,492         | 39.1                |
| 2020  | 1,126,762  | 1,359,456       | 82.9                | 184,185    | 500,830         | 37.0                |
| 2021* | 1,200,190  | 1,391,533       | 86.2                | 231,944    | 505,187         | 55.4                |

**Appendix 16.1: Checklist for Out Patient Diseases reported in the Health facilities**

| S/No | Disease                                 | S/No | Disease                              | S/No | Disease  |
|------|---|------|--------------------------------------|------|--|
| 1    | Upper Respiratory Tract Infections      | 28   | Road Traffic Injuries                | 55   | Measles  |
| 2    | Suspected Malaria                       | 29   | Chicken Pox                          | 56   | Rickets  |
| 3    | Confirmed Malaria (only Positive cases) | 30   | Overweight (BMI >25)                 | 57   | Chromosomal abnormalities (e.g. Downs, Edwards syndromes, etc) |
| 4    | Malaria in pregnancy                    | 31   | Mumps                                | 58   | Congenital Anomalies   |
| 5    | Malaria                                 | 32   | Other Bites                          | 59   | Tryponosomiasis  |
| 6    | Disease of the skin                     | 33   | Violence related injuries            | 60   | Physical Disability  |
| 7    | Other Dis. Of Respiratory System        | 34   | Brucellosis                          | 61   | Cerebral Palsy   |
| 8    | Diarrhoea                               | 35   | Mental Disorders                     | 62   | Tetanus  |
| 9    | Urinary Tract Infection                 | 36   | Dog Bites                            | 63   | Other Meningitis   |
| 10   | Fever                                   | 37   | Epilepsy                             | 64   | Fistula (Birth related)  |
| 11   | Arthritis, Joint pains etc.             | 38   | Abortion                             | 65   | Other Central Nervous System Conditions                        |
| 12   | Pneumonia                               | 39   | Dysentery (Bloody Diarrhoea)         | 66   | Meningococcal Meningitis                                       |
| 13   | Other injuries                          | 40   | Malnutrition                         | 67   | Kalazar (Leishmaniaisis)                                       |
| 14   | Hypertension                            | 41   | Disease of Puerperium and Childbirth | 68   | Cholera  |
| 15   | Intestinal worms                        | 42   | Poisoning                            | 69   | Autism   |
| 16   | Ear Infections/ Conditions              | 43   | Central Nervous System Conditions    | 70   | Viral Haemorrhagic Fever                                       |
| 17   | Eye Infections                          | 44   | Jiggers Infestation                  | 71   | Plague   |
| 18   | Dental Disorders                        | 45   | Cardiovascular conditions            | 72   | Poliomyelitis (AFP)  |
| 19   | Asthma                                  | 46   | Bilharzia                            | 73   | Neonatal Tetanus   |
| 20   | Tonsilitis                              | 47   | Tuberculosis                         | 74   | Yellow fever cases   |
| 21   | Diabetes                                | 48   | Sexual Violence                      | 75   | Dracunculosis (Guinea Worm)                                    |
| 22   | Typhoid fever                           | 49   | Newly Diagnosed HIV                  | 76   | All other diseases   |
| 23   | Muscular skeletal conditions            | 50   | Neoplasms                            |      |  |
| 24   | Other Eye conditions                    | 51   | Snake Bites                          |      |  |
| 25   | Sexually Transmitted Infections         | 52   | Other Convulsive Disorders           |      |  |
| 26   | Anaemia cases                           | 53   | Deaths due to Road Traffic Injuries  |      |  |
| 27   | Burns                                   | 54   | Hepatitis                            |      |  |





# Governance, Peace and Security

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## Overview

**D**uring the year under review, COVID-19 measures affecting society such as restrictions of movement and curfews were lifted. The impact of easing these COVID-19 measures on Governance, Justice, Law and Order Sector are highlighted in this Chapter.

17.2. There was an increase in the total number of crimes reported to police by 16.7 per cent from 69,645 in 2020 to 81,272 in 2021. In the same period, a total of 16 firearms were surrendered compared to 69 firearms in 2020. The quantity of dangerous drugs seized increased from 10.9 tonnes in 2020 to 13.1 tonnes in 2021.

17.3. The number of reports received by the Ethics and Anti-Corruption Commission (EACC) for investigations declined from 2,221 in 2019/20 to 2,032 in 2020/21. The value of assets traced by EACC in 2020/21 stood at KSh 5.1 billion compared to KSh 25.3 billion traced in 2019/20. During the same period, the Commission recovered public assets worth KSh 16 billion compared to KSh 12.1 billion in 2019/20.

17.4. The number of cases filed in courts increased by 5.5 per cent to 362,332 in 2020/21 while cases disposed of, increased from 293,996 in 2019/20 to 297,893 in 2020/21. The total prison population increased by 85.8 per cent from 86,119 in 2020 to 160,021 in 2021. The increase is partly attributed to resumption of court services to normalcy, minimal sentence reviews, and minimal application of Alternative Dispute Resolution.

**17.5.** The number of passports issued increased by 24.8 per cent to 273,328 in 2021. Work permits issued and work permits renewed increased by 25.3 and 5.1 per cent, respectively over the same period. The number of applications made for National Identity Cards almost doubled from 648,573 in 2020 to 1,167,954 in 2021, attributable to a Rapid Results Initiative (RRI) as well as mobile registration conducted by the National Registration Bureau. The number of registered Persons with Disabilities increased from 34,770 in 2019/20 to 36,846 in 2020/21 while population of refugees and asylum seekers grew from 504,854 in 2020 to 540,068 in 2021.

### Public Safety, Law and Order

**17.6.** Table 17.1 presents the number of crimes reported to the police by category for the period 2017

to 2021. Total number of crimes reported to police increased by 16.7 per cent from 69,645 in 2020 to 81,272 in 2021. There was a general increase in most crimes reported to the police with the exception of traffic offences, corruption and offences against morality, which declined by 33.9, 27.8 and 10.6 per cent, respectively.

Offences against morality, other offences against persons and stealing jointly accounted for 52.1 per cent of all crimes reported in 2021. Crimes reported on theft of stock increased by 26.2 per cent while those of dangerous drugs increased by 28.3 per cent in the period under review. In 2021, cases of stealing, criminal damage, and thefts of vehicles and other thefts increased by 35.1, 31.1 and 24.0 per cent, respectively.

**Table 17.1: Crimes Reported to the Police by Category, 2017 – 2021**

| Categories <sup>1</sup>            | 2017          | 2018          | 2019          | 2020          | Number<br>2021* |
|------------------------------------|---------------|---------------|---------------|---------------|-----------------|
| Homicide                           | 2,774         | 2,856         | 2,971         | 3,111         | 3,281           |
| Offences against morality          | 5,492         | 7,233         | 8,051         | 9,153         | 8,182           |
| Other offences against persons     | 22,515        | 25,049        | 27,196        | 19,288        | 22,365          |
| Robbery                            | 2,713         | 2,935         | 2,858         | 2,384         | 2,456           |
| Breakings                          | 6,131         | 5,970         | 5,976         | 4,252         | 4,973           |
| Theft of stock                     | 2,136         | 2,077         | 1,962         | 1,556         | 1,964           |
| Stealing                           | 11,656        | 12,845        | 13,954        | 8,709         | 11,762          |
| Theft by servant                   | 2,632         | 2,477         | 2,226         | 1,467         | 1,798           |
| Theft of Vehicles and other thefts | 1,404         | 1,370         | 1,298         | 1,031         | 1,278           |
| Dangerous drugs                    | 5,565         | 8,021         | 8,011         | 4,477         | 5,743           |
| Traffic offences                   | 69            | 213           | 341           | 186           | 123             |
| Criminal damage                    | 4,262         | 4,783         | 4,852         | 3,530         | 4,627           |
| Economic crimes                    | 3,695         | 4,100         | 4,786         | 3,488         | 4,004           |
| Corruption                         | 75            | 119           | 130           | 133           | 96              |
| Offences involving police officers | 86            | 174           | 77            | 64            | 75              |
| Offences involving tourists        | 15            | 93            | 48            | 26            | 31              |
| Other penal code offences          | 6,772         | 7,953         | 8,674         | 6,790         | 8,514           |
| <b>Total</b>                       | <b>77,992</b> | <b>88,268</b> | <b>93,411</b> | <b>69,645</b> | <b>81,272</b>   |

Source: National Police Service

\* Provisional

<sup>1</sup> Refer to Table 17.28 for detailed description of crimes

**17.7.** Crimes reported to the police by command stations for the period 2017 to 2021 are shown in Table 17.2. Command stations that recorded significant increases in reported crimes were Railways Police, Kakamega, Wajir, Isiolo and Garissa at 66.3, 63.6,

52.3, 49.2, 49.0 per cent, respectively. There was a decline in crimes reported in Samburu, Taita Taveta and Kisumu command stations by 16.8, 7.9 and 5.5 per cent, respectively in the period under review.

**Table 17.2: Crimes Reported to Police by Command Station, 2017-2021**

| S/No | Command Station | 2017  | 2018  | 2019  | 2020  | 2021* |
|------|-----------------|-------|-------|-------|-------|-------|
| 1    | Mombasa         | 2,847 | 3,108 | 3,374 | 2,231 | 2,358 |
| 2    | Kwale           | 851   | 996   | 1,060 | 910   | 901   |
| 3    | Kilifi          | 1,692 | 2,525 | 2,394 | 1,798 | 2,330 |
| 4    | Tana River      | 402   | 368   | 529   | 396   | 534   |
| 5    | Lamu            | 385   | 434   | 339   | 380   | 404   |
| 6    | Taita Taveta    | 679   | 720   | 860   | 863   | 795   |
| 7    | Garrissa        | 452   | 489   | 488   | 498   | 742   |
| 8    | Wajir           | 425   | 664   | 356   | 243   | 370   |
| 9    | Mandera         | 446   | 337   | 363   | 305   | 338   |
| 10   | Marsabit        | 736   | 743   | 783   | 621   | 857   |
| 11   | Isiolo          | 368   | 513   | 619   | 431   | 643   |
| 12   | Meru            | 5,151 | 5,689 | 6,077 | 4,163 | 5,032 |
| 13   | Tharaka-Nithi   | 846   | 969   | 1,077 | 925   | 884   |
| 14   | Embu            | 1,633 | 1,726 | 1,819 | 1,528 | 1,533 |
| 15   | Kitui           | 1,946 | 2,514 | 2,190 | 1,716 | 2,165 |
| 16   | Machakos        | 2,633 | 3,090 | 3,314 | 2,842 | 3,275 |
| 17   | Makueni         | 1,593 | 1,818 | 2,037 | 1,306 | 1,870 |
| 18   | Nyandarua       | 1,402 | 1,620 | 1,768 | 1,323 | 1,560 |
| 19   | Nyeri           | 1,657 | 1,910 | 2,002 | 1,482 | 1,658 |
| 20   | Kirinyaga       | 1,613 | 2,158 | 1,762 | 1,452 | 1,691 |
| 21   | Murang'a        | 2,402 | 3,070 | 3,284 | 2,079 | 2,691 |
| 22   | Kiambu          | 5,603 | 6,932 | 6,597 | 4,353 | 5,715 |
| 23   | Turkana         | 1,092 | 978   | 733   | 629   | 733   |
| 24   | West Pokot      | 670   | 657   | 562   | 463   | 672   |
| 25   | Samburu         | 432   | 436   | 363   | 380   | 316   |
| 26   | Trans Nzoia     | 1,674 | 1,888 | 2,388 | 1,419 | 1,836 |
| 27   | Uasin Gishu     | 2,072 | 1,999 | 2,376 | 1,948 | 2,175 |
| 28   | Elgeyo/Marakwet | 633   | 661   | 633   | 434   | 556   |
| 29   | Nandi           | 1,148 | 1,235 | 2,066 | 1,151 | 1,102 |
| 30   | Baringo         | 821   | 882   | 836   | 678   | 832   |
| 31   | Laikipia        | 1,220 | 1,100 | 1,163 | 983   | 1,280 |
| 32   | Nakuru          | 4,313 | 4,329 | 4,730 | 3,492 | 4,281 |
| 33   | Narok           | 1,110 | 1,180 | 849   | 719   | 890   |
| 34   | Kajiado         | 1,650 | 1,540 | 1,678 | 1,107 | 1,625 |

**Table 17.2: Crimes Reported to Police by Command Station, 2017-2021 (Continued)**

|              |                              |               |               |               |               |               |
|--------------|------------------------------|---------------|---------------|---------------|---------------|---------------|
| 35           | Kericho                      | 1,524         | 1,722         | 1,819         | 1,158         | 1,327         |
| 36           | Bomet                        | 850           | 1,195         | 1,433         | 1,262         | 1,223         |
| 37           | Kakamega                     | 1,584         | 2,180         | 2,621         | 1,221         | 1,998         |
| 38           | Vihiga                       | 764           | 1,003         | 1,024         | 923           | 952           |
| 39           | Bungoma                      | 2,269         | 2,686         | 2,811         | 2,007         | 2,193         |
| 40           | Busia                        | 1,639         | 1,762         | 1,789         | 1,309         | 1,306         |
| 41           | Siaya                        | 1,321         | 1,520         | 1,583         | 1,280         | 1,338         |
| 42           | Kisumu                       | 1,858         | 2,363         | 2,188         | 2,390         | 2,258         |
| 43           | Homa Bay                     | 1,332         | 1,719         | 1,803         | 1,735         | 1,710         |
| 44           | Migori                       | 1,281         | 1,305         | 1,323         | 1,246         | 1,274         |
| 45           | Kisii                        | 2,218         | 2,734         | 3,552         | 2,602         | 2,822         |
| 46           | Nyamira                      | 1,091         | 1,440         | 1,523         | 1,265         | 1,351         |
| 47           | Nairobi City                 | 7,434         | 7,128         | 8,246         | 5,844         | 6,686         |
| 48           | KAPU <sup>1</sup>            | 129           | 94            | 84            | 66            | 42            |
| 49           | Railways Police <sup>1</sup> | 101           | 139           | 143           | 89            | 148           |
| <b>Kenya</b> |                              | <b>77,992</b> | <b>88,268</b> | <b>93,411</b> | <b>69,645</b> | <b>81,272</b> |

Source: National Police Service

\* Provisional

<sup>1</sup> Kenya Airport Police Unit (KAPU) and Railways Police are fully fledged police command stations

**17.8.** In 2021, police repossessed 98 illegally held firearms compared to 167 repossessed in 2020 as shown in Table 17.3. The number of firearms surrendered in 2021 were 16 compared to 69 in 2020. Police recovered 8,232 rounds of ammunition in 2021 up from 3,878 recovered in 2020. This was partly attributed to a particular major recovery that was done

in September, 2021 amounting to 2,040 ammunitions. The quantity of dangerous drugs seized increased from 10,909 kilogrammes in 2020 to 13,080 kilogrammes in 2021. The increase is attributed to the Presidential directive on illicit alcohol and drugs that led to the establishment of a multi-agency team that conducted crackdowns across the country.

**Table 17.3: Firearms and Ammunition Recovered or Surrendered, and Drugs Seized, 2017–2021**

|  | Number       |              |               |              |              |
|--|--------------|--------------|---------------|--------------|--------------|
|  | 2017         | 2018         | 2019          | 2020         | 2021*        |
| <b>Firearms Recovered</b>                |              |              |               |              |              |
| Rifles                                   | 53           | 41           | 751           | 118          | 64           |
| Pistols                                  | 65           | 53           | 97            | 34           | 27           |
| Toy Pistols                              | 65           | 72           | 36            | 15           | 7            |
| <b>Total</b>                             | <b>183</b>   | <b>166</b>   | <b>884</b>    | <b>167</b>   | <b>98</b>    |
| <b>Firearms Surrendered</b>              |              |              |               |              |              |
| Rifles                                   | 2            | 19           | 104           | 48           | 16           |
| Pistols                                  | 1            | 0            | 56            | 21           | 0            |
| <b>Total</b>                             | <b>3</b>     | <b>19</b>    | <b>160</b>    | <b>69</b>    | <b>16</b>    |
| <b>Ammunition (Rounds)</b>               |              |              |               |              |              |
| Recovered                                | 2,653        | 1,314        | 11,987        | 1,869        | 8,225        |
| Surrendered                              | 2            | 0            | 2,099         | 2,009        | 7            |
| <b>Total</b>                             | <b>2,655</b> | <b>1,314</b> | <b>14,086</b> | <b>3,878</b> | <b>8,232</b> |
| Dangerous Drugs <sup>1</sup> seized (kg) | 4,510        | 3,386        | 6,533         | 10,909       | 13,080       |

Source: National Police Service

\* Provisional

<sup>1</sup>Prohibited harmful non pharmaceutical narcotic drugs and psychotropic substances listed in the First Schedule of Narcotic Drugs and Psychotropic Substances (Control) Act No. 4 of 1994

**17.9.** The number of persons reported to have committed crimes by sex and command stations from 2017 to 2021 is shown in Table 17.4. In 2021, the number of persons reported to the police to have committed offences increased by 29.4 per cent to 84,194. The number of offenders of both sexes increased by 27.4 per cent for males and 39.2 per cent for females in the period under review.

Nairobi City police command station accounted for the highest number of persons reported to have committed crime at 8.5 per cent followed by Kiambu and Meru at 6.7 and 6.1 per cent, respectively. The highest increase in the number of persons reported to have committed crime was in Kericho and Railways Police command stations which more than doubled to 1,375 and 137, respectively in 2021.

**Table 17.4: Persons Reported to the Police to have Committed Crimes by Command Stations and Sex, 2017–2021**

| S/<br>No | Command<br>station | 2017  |        |       | 2018  |        |       | 2019  |        |       | 2020  |        |       | 2021* |        |       | Number |
|----------|--------------------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|-------|--------|-------|--------|
|          |                    | Male  | Female | Total |        |
| 1        | Mombasa            | 2,435 | 578    | 3,013 | 2,253 | 420    | 2,673 | 2,747 | 601    | 3,348 | 1,920 | 424    | 2,344 | 2,129 | 342    | 2,471 |        |
| 2        | Kwale              | 431   | 126    | 557   | 633   | 138    | 771   | 743   | 71     | 814   | 827   | 108    | 935   | 825   | 106    | 931   |        |
| 3        | Kilifi             | 1,814 | 283    | 2,097 | 1,537 | 343    | 1,880 | 2,122 | 348    | 2,470 | 1,483 | 353    | 1,836 | 1,768 | 548    | 2,316 |        |
| 4        | Tana River         | 374   | 44     | 418   | 310   | 79     | 389   | 398   | 89     | 487   | 373   | 86     | 459   | 519   | 63     | 582   |        |
| 5        | Lamu               | 412   | 41     | 453   | 374   | 45     | 419   | 531   | 84     | 615   | 365   | 58     | 423   | 385   | 25     | 410   |        |
| 6        | Taita Taveta       | 608   | 87     | 695   | 501   | 94     | 595   | 586   | 90     | 676   | 752   | 148    | 900   | 727   | 131    | 858   |        |
| 7        | Garissa            | 389   | 154    | 543   | 152   | 54     | 206   | 458   | 64     | 522   | 420   | 121    | 541   | 604   | 220    | 824   |        |
| 8        | Wajir              | 268   | 36     | 304   | 296   | 101    | 397   | 302   | 56     | 358   | 247   | 20     | 267   | 358   | 55     | 413   |        |
| 9        | Mandera            | 271   | 31     | 302   | 45    | 5      | 50    | 306   | 48     | 354   | 214   | 47     | 261   | 261   | 76     | 337   |        |
| 10       | Marsabit           | 403   | 105    | 508   | 567   | 135    | 702   | 453   | 192    | 645   | 522   | 65     | 587   | 815   | 94     | 909   |        |
| 11       | Isiolo             | 276   | 82     | 358   | 343   | 180    | 523   | 303   | 102    | 405   | 447   | 70     | 517   | 572   | 119    | 691   |        |
| 12       | Meru               | 3,772 | 1,113  | 4,885 | 3,093 | 1,443  | 4,536 | 3,407 | 1,451  | 4,858 | 2,146 | 651    | 2,797 | 3,947 | 1,152  | 5,099 |        |
| 13       | Tharaka-Nithi      | 688   | 184    | 872   | 900   | 205    | 1,105 | 979   | 182    | 1,161 | 829   | 208    | 1,037 | 796   | 181    | 977   |        |
| 14       | Embu               | 1,029 | 446    | 1,475 | 1,584 | 370    | 1,954 | 987   | 417    | 1,404 | 1,319 | 221    | 1,540 | 1,323 | 262    | 1,585 |        |
| 15       | Kitui              | 1,380 | 281    | 1,661 | 1,395 | 291    | 1,686 | 856   | 87     | 943   | 1,148 | 234    | 1,382 | 2,011 | 275    | 2,286 |        |
| 16       | Machakos           | 1,792 | 320    | 2,112 | 1,247 | 192    | 1,439 | 1,478 | 544    | 2,022 | 1,685 | 326    | 2,011 | 2,892 | 468    | 3,360 |        |
| 17       | Makueni            | 990   | 183    | 1,173 | 1,630 | 187    | 1,817 | 1,434 | 298    | 1,732 | 997   | 217    | 1,214 | 1,615 | 233    | 1,848 |        |
| 18       | Nyandarua          | 1,486 | 275    | 1,761 | 947   | 189    | 1,136 | 1,422 | 269    | 1,691 | 1,208 | 182    | 1,390 | 1,381 | 173    | 1,554 |        |
| 19       | Nyeri              | 1,342 | 247    | 1,589 | 905   | 268    | 1,173 | 1,905 | 384    | 2,289 | 1,227 | 121    | 1,348 | 1,539 | 198    | 1,737 |        |
| 20       | Kirinyaga          | 1,554 | 314    | 1,868 | 984   | 321    | 1,305 | 899   | 233    | 1,132 | 783   | 292    | 1,075 | 1,261 | 415    | 1,676 |        |
| 21       | Murang'a           | 2,150 | 330    | 2,480 | 2,246 | 237    | 2,483 | 2,145 | 309    | 2,454 | 1,449 | 234    | 1,683 | 2,220 | 410    | 2,630 |        |
| 22       | Kiambu             | 3,773 | 1,575  | 5,348 | 4,125 | 2,175  | 6,300 | 4,270 | 1,528  | 5,798 | 2,470 | 892    | 3,362 | 4,104 | 1,572  | 5,676 |        |
| 23       | Turkana            | 1,056 | 106    | 1,162 | 579   | 134    | 713   | 566   | 134    | 700   | 595   | 82     | 677   | 664   | 94     | 758   |        |
| 24       | West Pokot         | 464   | 142    | 606   | 635   | 175    | 810   | 411   | 92     | 503   | 357   | 109    | 466   | 642   | 81     | 723   |        |
| 25       | Samburu            | 234   | 53     | 287   | 233   | 68     | 301   | 126   | 17     | 143   | 273   | 91     | 364   | 261   | 70     | 331   |        |
| 26       | Trans Nzoia        | 1,189 | 546    | 1,735 | 1,250 | 615    | 1,865 | 1,805 | 534    | 2,339 | 1,500 | 220    | 1,720 | 1,624 | 268    | 1,892 |        |

| S/<br>No | Command<br>station              | 2017          |               |               | 2018          |               |               | 2019          |               |               | 2020          |               |               | 2021*         |               |               |
|----------|---------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|          |                                 | Male          | Female        | Total         |
| 27       | Uasin Gishu                     | 1,434         | 439           | 1,873         | 1,187         | 305           | 1,492         | 1,671         | 313           | 1,984         | 1,476         | 170           | 1,646         | 1,968         | 340           | 2,308         |
| 28       | Erigeyo/<br>Marakwet            | 324           | 60            | 384           | 215           | 25            | 240           | 499           | 60            | 559           | 450           | 57            | 507           | 547           | 56            | 603           |
| 29       | Nandi                           | 724           | 229           | 953           | 783           | 227           | 1,010         | 921           | 259           | 1,180         | 739           | 281           | 1,020         | 915           | 204           | 1,119         |
| 30       | Baringo                         | 579           | 133           | 712           | 850           | 174           | 1,024         | 643           | 89            | 732           | 578           | 97            | 675           | 789           | 91            | 880           |
| 31       | Laikipia                        | 739           | 127           | 866           | 793           | 175           | 968           | 1,072         | 177           | 1,249         | 1,014         | 150           | 1,164         | 1,386         | 140           | 1,526         |
| 32       | Nakuru                          | 3,038         | 775           | 3,813         | 2,340         | 603           | 2,943         | 2,391         | 416           | 2,807         | 2,765         | 569           | 3,334         | 3,299         | 1,056         | 4,355         |
| 33       | Narok                           | 1,266         | 210           | 1,476         | 1,024         | 214           | 1,238         | 718           | 105           | 823           | 677           | 74            | 751           | 872           | 130           | 1,002         |
| 34       | Kajiado                         | 756           | 186           | 942           | 636           | 127           | 763           | 1,016         | 218           | 1,234         | 787           | 254           | 1,041         | 1,418         | 255           | 1,673         |
| 35       | Kericho                         | 1,075         | 184           | 1,259         | 1,104         | 200           | 1,304         | 1,101         | 199           | 1,300         | 445           | 92            | 537           | 1,182         | 193           | 1,375         |
| 36       | Bomet                           | 636           | 78            | 714           | 1,197         | 138           | 1,335         | 1,258         | 187           | 1,445         | 1,243         | 143           | 1,386         | 1,192         | 111           | 1,303         |
| 37       | Kakamega                        | 677           | 103           | 780           | 3,186         | 541           | 3,727         | 3,553         | 619           | 4,172         | 2,051         | 313           | 2,364         | 1,654         | 356           | 2,010         |
| 38       | Vihiga                          | 498           | 140           | 638           | 995           | 139           | 1,134         | 975           | 140           | 1,115         | 954           | 118           | 1,072         | 797           | 206           | 1,003         |
| 39       | Bungoma                         | 2,111         | 407           | 2,518         | 2,432         | 406           | 2,838         | 2,649         | 538           | 3,187         | 1,834         | 286           | 2,120         | 1,759         | 470           | 2,229         |
| 40       | Busia                           | 1,749         | 423           | 2,172         | 1,402         | 330           | 1,732         | 1,261         | 363           | 1,624         | 1,159         | 180           | 1,339         | 1,082         | 250           | 1,332         |
| 41       | Siaya                           | 1,226         | 163           | 1,389         | 1,349         | 305           | 1,654         | 862           | 134           | 996           | 1,264         | 143           | 1,407         | 1,298         | 265           | 1,563         |
| 42       | Kisumu                          | 1,409         | 363           | 1,772         | 1,366         | 446           | 1,812         | 1,980         | 383           | 2,363         | 974           | 343           | 1,317         | 1,695         | 533           | 2,228         |
| 43       | Homa Bay                        | 956           | 205           | 1,161         | 1,603         | 344           | 1,947         | 1,394         | 186           | 1,580         | 1,453         | 186           | 1,639         | 1,492         | 274           | 1,766         |
| 44       | Migori                          | 290           | 119           | 409           | 1,251         | 226           | 1,477         | 1,242         | 301           | 1,543         | 1,142         | 224           | 1,366         | 1,034         | 275           | 1,309         |
| 45       | Kisii                           | 2,142         | 344           | 2,486         | 2,143         | 343           | 2,486         | 2,568         | 447           | 3,015         | 2,567         | 520           | 3,087         | 2,374         | 633           | 3,007         |
| 46       | Nyamira                         | 822           | 148           | 970           | 1,185         | 252           | 1,437         | 932           | 266           | 1,198         | 914           | 193           | 1,107         | 1,114         | 250           | 1,364         |
| 47       | Nairobi City                    | 4,342         | 1,285         | 5,627         | 4,887         | 1,325         | 6,212         | 6,709         | 1,501         | 8,210         | 3,890         | 1,028         | 4,918         | 5,551         | 1,635         | 7,186         |
| 48       | KAPU <sup>1</sup>               | 62            | 20            | 82            | 68            | 12            | 80            | 57            | 13            | 70            | 59            | 31            | 90            | 32            | 10            | 42            |
| 49       | Railways<br>Police <sup>1</sup> | 129           | 34            | 163           | 130           | 24            | 154           | 125           | 24            | 149           | 44            | 16            | 60            | 124           | 13            | 137           |
|          | <b>Total</b>                    | <b>57,564</b> | <b>13,857</b> | <b>71,421</b> | <b>60,890</b> | <b>15,345</b> | <b>76,235</b> | <b>67,236</b> | <b>15,162</b> | <b>82,398</b> | <b>54,035</b> | <b>11,048</b> | <b>65,083</b> | <b>68,817</b> | <b>15,377</b> | <b>84,194</b> |

Source: National Police Service

<sup>1</sup> Provisional<sup>1</sup> Kenya Airport Police Unit (KAPU) and Railways Police are fully fledged police command stations

Note: The number of persons reported to have committed offences may differ with that of crimes reported to the Police (Table 17.1) because a person may commit more than one crime or a crime may be committed by more than one person.

**17.10.** Table 17.5 presents the number of persons reported to have committed crimes by sex and crime categories from 2017 to 2021. The number of persons reported to the police to have committed crimes against morality declined marginally from 8,565 in 2020 to 8,449 in 2021. Defilement which accounted for 76.8 per cent of all reported crimes against morality declined by 4.5 per cent from 6,801 in 2020 to 6,492 in 2021. Persons reported to have committed rape increased by 4.1 per cent and accounted for 12.0 per cent of all crimes against morality. Similarly, crimes related to indecent assault increased by 18.0 per cent from 267 in 2020 to 315 in 2021. The number of persons reported to have committed assault and creating disturbances increased by 23.7 per cent and 47.9 per cent to 16,259 and 5,750 respectively, in 2021.

**17.11.** The total number of persons reported to have committed homicide went up by 9.3 per cent from 2,494 in 2020 to 2,726 in 2021. Similarly, persons reported to have committed murder and death by dangerous driving increased to 2,088 and 405, respectively in 2021. On the other hand, persons reported to have committed manslaughter and procuring abortion declined by 14.4 per cent and 28.0 per cent, respectively in the period under review.

**17.12.** The total number of persons reported to have committed robbery, breakings and theft rose by 34.6 per cent from 19,103 in 2020 to 25,721 in 2021 with

stealing accounting for the highest share at 47.3 per cent of the total. Under this category, persons reported to have committed theft of vehicles & other thefts, theft of stock, breakings and theft by servant increased by 65.2, 31.2, 23.4 and 19.9 per cent respectively. Robbery cases declined by 6.5 per cent to 2,734 during the same period.

**17.13.** The total number of persons reported to the police for crimes related to dangerous drugs, criminal damage, economic crimes, corruption and offences involving police officers increased by 42.5 per cent from 10,706 in 2020 to 15,255 in 2021. Under this category of offences, the largest increase was recorded for persons reported to have been involved in dangerous drugs at 48.8 per cent. Persons reported to have committed corruption offences declined from 195 in 2020 to 103 in 2021.



**The total number of persons reported to have committed homicide went up by 9.3 per cent from 2,494 in 2020 to 2,726 in 2021. Similarly, persons reported to have committed murder and death by dangerous driving increased to 2,088 and 405, respectively in 2021**

**Table 17.5: Persons Reported to have Committed Crimes by Type of Offence and Sex, 2017-2021**

| Offence                               | 2017   |        |        | 2018   |        |        | 2019   |        |        | 2020   |        |        | 2021*  |        |        | Number |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                                       | Male   | Female | Total  |        |
| <b>Against morality</b>               |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Rape                                  | 694    | 90     | 784    | 875    | 46     | 921    | 923    | 27     | 950    | 924    | 49     | 973    | 955    | 58     | 1,013  |        |
| Defilement                            | 3,252  | 235    | 3,487  | 4,494  | 273    | 4,767  | 5,094  | 303    | 5,397  | 6,512  | 289    | 6,801  | 6,275  | 217    | 6,492  |        |
| Incest                                | 234    | 53     | 287    | 277    | 31     | 308    | 240    | 21     | 261    | 288    | 35     | 323    | 352    | 15     | 367    |        |
| Unnatural/sodomy                      | 90     | 17     | 107    | 67     | 4      | 71     | 89     | 2      | 91     | 52     | 2      | 54     | 79     | 9      | 88     |        |
| Bestiality                            | 23     | 3      | 26     | 5      | 0      | 5      | 20     | 0      | 20     | 16     | 3      | 19     | 13     | 1      | 14     |        |
| Indecent assault                      | 217    | 28     | 245    | 131    | 10     | 141    | 208    | 40     | 248    | 235    | 32     | 267    | 287    | 28     | 315    |        |
| Abduction                             | 66     | 72     | 138    | 40     | 12     | 52     | 60     | 11     | 71     | 59     | 11     | 70     | 45     | 16     | 61     |        |
| Bigamy                                | 15     | 53     | 68     | 9      | 3      | 12     | 25     | 1      | 26     | 53     | 5      | 58     | 73     | 26     | 99     |        |
| Sub- total                            | 4,591  | 551    | 5,142  | 5,898  | 379    | 6,277  | 6,659  | 405    | 7,064  | 8,139  | 426    | 8,565  | 8,079  | 370    | 8,449  |        |
| <b>Other offences against persons</b> |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Assault                               | 10,256 | 3,353  | 13,609 | 11,331 | 4,757  | 16,088 | 12,350 | 3,954  | 16,304 | 10,280 | 2,859  | 13,139 | 12,317 | 3,942  | 16,259 |        |
| Creating disturbance                  | 4,575  | 1,342  | 5,917  | 4,499  | 1,244  | 5,743  | 5,166  | 1,351  | 6,517  | 3,212  | 675    | 3,887  | 4,552  | 1,198  | 5,750  |        |
| Affray (scuffle)                      | 544    | 247    | 791    | 419    | 198    | 617    | 474    | 210    | 684    | 668    | 229    | 897    | 644    | 259    | 903    |        |
| Sub- total                            | 15,375 | 4,942  | 20,317 | 16,249 | 6,199  | 22,448 | 17,990 | 5,515  | 23,505 | 14,160 | 3,763  | 17,923 | 17,513 | 5,399  | 22,912 |        |
| <b>Homicide</b>                       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Murder                                | 1,213  | 222    | 1,435  | 1,126  | 1,207  | 2,333  | 1,275  | 252    | 1,527  | 1,558  | 223    | 1,781  | 1,879  | 209    | 2,088  |        |
| Manslaughter                          | 48     | 11     | 59     | 31     | 73     | 104    | 80     | 12     | 92     | 83     | 14     | 97     | 71     | 12     | 83     |        |
| Infanticide                           | 5      | 21     | 26     | 11     | 9      | 20     | 9      | 27     | 36     | 9      | 43     | 52     | 8      | 41     | 49     |        |
| Procuring abortion                    | 17     | 18     | 35     | 6      | 6      | 12     | 7      | 45     | 52     | 23     | 27     | 50     | 8      | 28     | 36     |        |
| Concealing Birth                      | 7      | 31     | 38     | 22     | 4      | 26     | 4      | 54     | 58     | 7      | 43     | 50     | 16     | 49     | 65     |        |
| Suicide                               | 330    | 91     | 421    | 147    | 155    | 302    | 160    | 36     | 196    | 138    | 36     | 174    | 0      | 0      | 0      |        |
| Causing death by dangerous driving    | 243    | 21     | 264    | 171    | 235    | 406    | 257    | 22     | 279    | 264    | 26     | 290    | 350    | 55     | 405    |        |

**Table 17.5: Persons Reported to have Committed Crimes by Type of Offence and Sex, 2017-2021 (Continued)**

| Offence   | 2017   |        |        |        |        |        | 2018   |        |        |        |        |        | 2019   |        |        |      |        |       | 2020 |        |       |      |        |       | 2021* |  |  |  |  |  |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|--------|-------|------|--------|-------|------|--------|-------|-------|--|--|--|--|--|
|   | Male   | Female | Total  | Male | Female | Total | Male | Female | Total | Male | Female | Total |       |  |  |  |  |  |
| Sub-total   | 1,863  | 415    | 2,278  | 1,514  | 1,689  | 3,203  | 1,792  | 448    | 2,240  | 2,082  | 412    | 2,494  | 2,332  | 394    | 2,726  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| <b>Robbery, Breakings and Theft</b>   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Robbery   | 2,192  | 317    | 2,509  | 2,343  | 332    | 2,675  | 2,716  | 351    | 3,067  | 2,502  | 422    | 2,924  | 2,457  | 277    | 2,734  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Breakings   | 5,318  | 555    | 5,873  | 4,767  | 507    | 5,274  | 5,162  | 561    | 5,723  | 3,878  | 468    | 4,346  | 4,867  | 496    | 5,363  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Theft of stock  | 1,606  | 203    | 1,809  | 1,647  | 243    | 1,890  | 1,699  | 161    | 1,860  | 1,472  | 131    | 1,603  | 1,989  | 114    | 2,103  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Stealing  | 9,096  | 1,942  | 11,038 | 8,472  | 1,965  | 10,437 | 9,428  | 2,196  | 11,624 | 6,339  | 1,421  | 7,760  | 9,862  | 2,313  | 12,175 |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Theft by servant  | 1,553  | 682    | 2,235  | 1,440  | 652    | 2,092  | 1,507  | 577    | 2,084  | 1,142  | 480    | 1,622  | 1,305  | 640    | 1,945  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Theft of vehicle & other thefts   | 958    | 129    | 1,087  | 932    | 112    | 1,044  | 1,066  | 135    | 1,201  | 772    | 76     | 848    | 1,245  | 156    | 1,401  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Sub-total   | 20,723 | 3,828  | 24,551 | 19,601 | 3,811  | 23,412 | 21,578 | 3,981  | 25,559 | 16,105 | 2,998  | 19,103 | 21,725 | 3,996  | 25,721 |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| <b>Dangerous Drugs, Criminal Damage, Economic Crimes, Corruption and Offences involving Police Officers</b> |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Dangerous Drugs   | 3,949  | 570    | 4,519  | 5,449  | 884    | 6,333  | 5,945  | 922    | 6,867  | 3,451  | 609    | 4,060  | 5,060  | 981    | 6,041  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Criminal Damage   | 3,302  | 822    | 4,124  | 3,071  | 1,009  | 4,080  | 3,536  | 813    | 4,349  | 2,688  | 607    | 3,295  | 3,952  | 937    | 4,889  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Economic crimes   | 2,501  | 717    | 3,218  | 2,319  | 732    | 3,051  | 3,402  | 981    | 4,383  | 2,324  | 753    | 3,077  | 3,102  | 1,023  | 4,125  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Corruption  | 221    | 54     | 275    | 105    | 56     | 161    | 296    | 92     | 388    | 161    | 34     | 195    | 61     | 42     | 103    |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Offences involving Police officers  | 59     | 12     | 71     | 458    | 133    | 591    | 131    | 48     | 179    | 67     | 12     | 79     | 85     | 12     | 97     |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Sub-total   | 10,032 | 2,175  | 12,207 | 11,402 | 2,814  | 14,216 | 13,310 | 2,856  | 16,166 | 8,691  | 2,015  | 10,706 | 12,260 | 2,995  | 15,255 |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |

Source: National Police Service

\*Provisional

Note: The number of persons reported in this table are those reported to have committed serious crimes and may not be the same as those in Table 17.4

### Ethics and Corruption

**17.14.** The number of reports handled and action taken by Ethics and Anti-Corruption Commission (EACC) from 2016/17 to 2020/21 are presented in Table 17.6. In the review period, the number of reports received for investigations declined by 8.5 per cent from 2,221 in 2019/20 to 2,032. The number of reports referred to other public agencies for appropriate action reduced by 12.7 per cent from 448 in 2019/20 to 391 in 2020/21. Reports

pending for more information declined by 41.6 per cent to 73 while complainants advised on where to report decreased by 29.8 per cent to 1,621 in the review period. The EACC terminated 777 reports in 2020/21 compared to 814 reports in 2019/20. Reports forwarded to the Office of the Director of Public Prosecutions (ODPP) also declined from 163 in 2019/20 to 103 in 2020/21.

**Table 17.6: Reports Handled by EACC and Action Taken, 2016/17-2020/21**

| S/No | Action Taken  | 2016/17 | 2017/18 | 2018/19 | 2019/20 | Number<br>2020/21* |
|------|---|---------|---------|---------|---------|--------------------|
| 1    | Reports for investigation                             | 3,735   | 2,898   | 3,482   | 2,221   | 2,032              |
| 2    | Reports referred to public organizations <sup>1</sup> | 736     | 493     | 921     | 448     | 391                |
| 3    | Reports pending for more information                  | 64      | 86      | 226     | 125     | 73                 |
| 4    | Complainants advised on where to report <sup>2</sup>  | 3,045   | 2,207   | 3,803   | 2,308   | 1,621              |
| 5    | Reports with no further action (terminated)           | 575     | 527     | 876     | 814     | 777                |
| 6    | Reports forwarded to ODPP                             | 143     | 183     | 234     | 163     | 103                |

Source: Ethics and Anti-Corruption Commission

\* Provisional

<sup>1</sup> Aggregate of categories “Reports referred to other investigative agencies” and “Reports referred to public service organizations for administrative intervention” in previous reports

<sup>2</sup> Aggregate of categories “Complainants advised on the right authority to report to” and “Complainants advised to seek civil redress” in previous reports

**17.15.** The number of reports investigated by EACC and forwarded to ODPP for the period 2016/17 to 2020/21 are presented in Table 17.7. In the review period, files recommended for closure and accepted by ODPP decreased to 6 while 34 were returned for further investigations.

**Table 17.7: Action Taken on Reports Forwarded to the Office of Director of Public Prosecution, 2016/17-2020/21**

| Action Taken   | Number     |            |            |            |            |
|--|------------|------------|------------|------------|------------|
|  | 2016/17    | 2017/18    | 2018/19    | 2019/20    | 2020/21*   |
| 1 Recommendation to prosecute accepted                           | 89         | 113        | 77         | 41         | 14         |
| 2 Recommendation to prosecute not accepted                       | 8          | 6          | 1          | 3          | 1          |
| 3 Recommendation for administrative or other action accepted     | 7          | 9          | 13         | 9          | 5          |
| 4 Recommendation for administrative or other action not accepted | 0          | 1          | 0          | 3          | 1          |
| 5 Recommendation for closure accepted                            | 25         | 31         | 31         | 20         | 6          |
| 6 Recommendation for closure not accepted                        | 1          | 2          | 2          | 2          | 0          |
| 7 Files returned for further investigations                      | 13         | 18         | 59         | 56         | 34         |
| 8 Reports awaiting DPP's <sup>1</sup> action                     | 0          | 3          | 51         | 29         | 42         |
| <b>Total</b>   | <b>143</b> | <b>183</b> | <b>234</b> | <b>163</b> | <b>103</b> |

Source: Ethics and Anti-Corruption Commission

\* Provisional

<sup>1</sup> DPP - Director of Public Prosecution

**17.16.** The status on tracing, recovery and loss aversion of public assets are presented in Table 17.8. The value of assets traced in 2020/21 stood at KSh 5.1 billion compared to KSh 25.3 billion traced in 2019/20. The EACC recovered public assets worth

KSh 16 billion in 2020/21 compared to KSh 12.1 billion in 2019/20. The Commission averted loss of assets worth KSh 8.0 billion in 2020/21 compared to KSh 10.0 billion in the previous year.

**Table 17.8: Value of Public Assets Traced, Recovered and Loss Averted by Ethics and Anti-Corruption Commission, 2016/17-2020/21**

| Year       | Value of public assets traced | Value of public assets recovered | KSh Billion<br>Loss Averted <sup>1</sup> |
|------------|-------------------------------|----------------------------------|--|
| 2016/2017  | 4.9                           | 0.3                              | 6.2                                      |
| 2017/2018  | 2.3                           | 3.8                              | 4.7                                      |
| 2018/2019  | 2.7                           | 4.5                              | 14.5                                     |
| 2019/2020  | 25.3                          | 12.1                             | 10.0                                     |
| 2020/2021* | 5.1                           | 16.0                             | 8.0                                      |

Source: Ethics and Anti-Corruption Commission

\*Provisional

<sup>1</sup> Loss averted refers to total value of public assets where an attempted illegal acquisition was detected and foiled through pre-emptive investigations by the EACC

### Environmental Crimes

**17.17.** The number of environmental crimes reported to National Environment Management Authority (NEMA) declined by 37.7 per cent from 130 in 2020 to 81 in 2021 as shown in Table 17.9. Crimes on illegal movement or dumping of waste increased from 36 in 2020 to 79 in 2021.

**Table 17.9: Environmental Crimes Reported to NEMA, 2017-2021**

| Type of cases                        | 2017       | 2018       | 2019       | 2020       | Number<br>2021* |
|--------------------------------------|------------|------------|------------|------------|-----------------|
| Air Pollution                        | 97         | 156        | 157        | 57         | 0               |
| Water Pollution                      | 11         | 41         | 11         | 24         | 2               |
| Soil Pollution                       | 23         | 2          | 1          | 13         | 0               |
| Illegal movement or dumping of waste | 253        | 328        | 227        | 36         | 79              |
| <b>Total</b>                         | <b>384</b> | <b>527</b> | <b>396</b> | <b>130</b> | <b>81</b>       |

Source: National Environment Management Authority

\*Provisional

### Prosecution of Murder Cases

**17.18.** In 2021, the number of murder cases registered stood at 987 compared to 1,018 in 2020 as shown in Table 17.10. Nairobi, Eldoret and Kiambu High Court stations registered the highest number of murder cases at 94, 59 and 55, respectively. Mur-

der cases that were concluded with a conviction increased from 33 in 2020 to 486 in 2021 most of which were recorded in Meru, Siaya and Mombasa at 73, 47 and 47, respectively.

**Table 17.10: Registered Murder Cases and Convictions obtained by High Court Station, 2017 – 2021**

| S/No         | High Court Station   | Number     |            |              |            |              |            |              |           |            |            |
|--------------|----------------------|------------|------------|--------------|------------|--------------|------------|--------------|-----------|------------|------------|
|              |                      | 2017       |            | 2018         |            | 2019         |            | 2020         |           | 2021*      |            |
|              |                      | R          | C          | R            | C          | R            | C          | R            | C         | R          | C          |
| 1            | Nairobi <sup>1</sup> | 67         | 27         | 66           | 33         | 85           | 34         | 82           | 10        | 94         | 17         |
| 2            | Mombasa              | 25         | 21         | 24           | 8          | 22           | 8          | 15           | 0         | 32         | 47         |
| 3            | Kisumu               | 32         | 41         | 22           | 26         | 43           | 5          | 30           | 5         | 24         | 2          |
| 4            | Eldoret              | 70         | 10         | 90           | 10         | 62           | 25         | 41           | 6         | 59         | 12         |
| 5            | Kitale               | 17         | 10         | 26           | 2          | 40           | 7          | 33           | 6         | 19         | 1          |
| 6            | Kakamega             | 50         | 25         | 43           | 18         | 77           | 4          | 48           | 2         | 44         | 3          |
| 7            | Bungoma              | 35         | 37         | 18           | 32         | 30           | 15         | 32           | 2         | 36         | 28         |
| 8            | Meru                 | 104        | 0          | 79           | 12         | 87           | 21         | 35           | 0         | 46         | 73         |
| 9            | Machakos             | 32         | 9          | 35           | 10         | 39           | 1          | 39           | 1         | 25         | 5          |
| 10           | Kericho              | 16         | 8          | 28           | 4          | 43           | 6          | 25           | 0         | 34         | 6          |
| 11           | Nyeri                | 10         | 3          | 12           | 2          | 21           | 5          | 13           | 4         | 7          | 27         |
| 12           | Kisii                | 27         | 7          | 32           | 20         | 44           | 8          | 34           | 6         | 30         | 14         |
| 13           | Embu                 | 20         | 20         | 24           | 20         | 19           | 12         | 25           | 2         | 32         | 13         |
| 14           | Malindi              | 16         | 3          | 18           | 2          | 25           | 5          | 42           | 0         | 20         | 1          |
| 15           | Nakuru               | 56         | 17         | 88           | 26         | 57           | 14         | 57           | 1         | 29         | 6          |
| 16           | Busia                | 33         | 4          | 34           | 14         | 20           | 1          | 24           | 5         | 27         | 21         |
| 17           | Garissa              | 15         | 0          | 12           | 2          | 10           | 1          | 8            | 0         | 5          | 0          |
| 18           | Homa Bay             | 37         | 10         | 39           | 12         | 32           | 0          | 68           | 0         | 54         | 36         |
| 19           | Murang'a             | 28         | 1          | 27           | 7          | 35           | 7          | 34           | 0         | 36         | 10         |
| 20           | Kerugoya             | 10         | 2          | 10           | 4          | 9            | 0          | 30           | 6         | 15         | 3          |
| 21           | Bomet                | 23         | 1          | 24           | 6          | 28           | 1          | 16           | 0         | 21         | 2          |
| 22           | Kajiado              | 8          | 13         | 10           | 5          | 20           | 5          | 14           | 0         | 20         | 2          |
| 23           | Kitui                | 18         | 7          | 23           | 4          | 21           | 4          | 12           | 0         | 20         | 12         |
| 24           | Voi                  | 10         | 3          | 12           | 2          | 16           | 1          | 16           | 1         | 3          | 0          |
| 25           | Lodwar               | 14         | 11         | 16           | 4          | 5            | 2          | 14           | 0         | 18         | 13         |
| 26           | Naivasha             | 22         | 2          | 25           | 1          | 21           | 4          | 21           | 0         | 3          | 0          |
| 27           | Chuka                | 6          | 2          | 18           | 1          | 19           | 3          | 19           | 9         | 14         | 4          |
| 28           | Garsen               | 3          | 2          | 20           | 2          | 8            | 4          | 11           | 1         | 3          | 9          |
| 29           | Kabarnet             | 18         | 1          | 20           | 5          | 27           | 2          | 2            | 0         | 29         | 25         |
| 30           | Kapenguria           | 11         | 0          | 6            | 14         | 9            | 5          | 15           | 3         | 7          | 1          |
| 31           | Kiambu               | 37         | 0          | 45           | 5          | 54           | 1          | 47           | 7         | 55         | 6          |
| 32           | Marsabit             | 8          | 3          | 6            | 4          | 16           | 5          | 14           | 1         | 14         | 0          |
| 33           | Migori.              | 17         | 15         | 21           | 8          | 13           | 1          | 16           | 0         | 9          | 7          |
| 34           | Nanyuki              | 10         | 13         | 20           | 8          | 19           | 2          | 11           | 0         | 20         | 2          |
| 35           | Narok                | 6          | 4          | 8            | 6          | 13           | 8          | 8            | 2         | 13         | 3          |
| 36           | Nyamira              | 9          | 4          | 12           | 0          | 22           | 3          | 19           | 1         | 27         | 19         |
| 37           | Siaya                | 33         | 18         | 28           | 16         | 29           | 11         | 19           | 2         | 23         | 47         |
| 38           | Makueni              | 3          | 0          | 24           | 2          | 31           | 2          | 29           | 0         | 20         | 9          |
| <b>Total</b> |                      | <b>956</b> | <b>354</b> | <b>1,065</b> | <b>357</b> | <b>1,171</b> | <b>243</b> | <b>1,018</b> | <b>33</b> | <b>987</b> | <b>486</b> |

Source: Office of the Director of Public Prosecutions

\* Provisional

<sup>1</sup> Nairobi High Court is Milimani High Court

R - Registered murder cases, C - Murder convictions obtained

### The Judiciary

**17.19.** The number of cases filed in courts increased by 5.5 per cent to 362,332 in 2020/21 as shown in Table 17.11. Similarly, the number of cases disposed

of, increased marginally from 293,996 in 2019/20 to 297,893 in 2020/21. The number of pending cases continued to increase to stand at 679,597 in 2020/21.

**Table 17.11: Cases Filed, Disposed of and Pending by various Courts, 2016/17–2020/21**

| Year     | Status of Cases | Supreme Court | Court of Appeal | High Court | Employment & Labour Relations Court |           |             | Environment and Land Court | Magistrate Courts | Small Claims Courts | Tribunal Courts | Kachis Court | Total   | Number  |
|----------|-----------------|---------------|-----------------|------------|-------------------------------------|-----------|-------------|----------------------------|-------------------|---------------------|-----------------|--------------|---------|---------|
|          |                 |               |                 |            | Dismissals                          | Decisions | Settlements |                            |                   |                     |                 |              |         | Number  |
| 2016/17  | Filed           | 38            | 1,578           | 20,553     | 6,082                               | 9,770     | 300,655     | ..                         | ..                | ..                  | ..              | 5,504        | 344,180 | 344,180 |
|          | Disposed of     | 16            | 1,052           | 27,987     | 3,668                               | 6,307     | 260,319     | ..                         | ..                | ..                  | ..              | 4,833        | 304,182 | 304,182 |
|          | Pending         | 73            | 3,387           | 119,777    | 13,723                              | 27,242    | 366,133     | ..                         | ..                | ..                  | ..              | 3,015        | 533,350 | 533,350 |
| 2017/18  | Filed           | 61            | 2,013           | 25,049     | 5,645                               | 5,834     | 356,085     | ..                         | ..                | ..                  | ..              | 7,556        | 402,243 | 402,243 |
|          | Disposed of     | 39            | 1,195           | 37,682     | 3,661                               | 7,887     | 313,362     | ..                         | ..                | ..                  | ..              | 6,662        | 370,488 | 370,488 |
|          | Pending         | 95            | 4,205           | 98,688     | 15,733                              | 24,380    | 402,639     | ..                         | ..                | ..                  | ..              | 3,816        | 549,556 | 549,556 |
| 2018/19  | Filed           | 96            | 2,540           | 30,695     | 2,672                               | 4,494     | 435,413     | ..                         | ..                | 6,627               | ..              | 8,439        | 490,976 | 490,976 |
|          | Disposed of     | 89            | 1,300           | 36,998     | 4,228                               | 7,162     | 413,332     | ..                         | ..                | 2,521               | ..              | 6,250        | 471,880 | 471,880 |
|          | Pending         | 93            | 6,052           | 88,548     | 14,460                              | 18,254    | 436,522     | ..                         | ..                | 26,531              | ..              | 5,871        | 596,331 | 596,331 |
| 2019/20  | Filed           | 72            | 2,620           | 23,602     | 2,015                               | 3,156     | 298,838     | ..                         | ..                | 5,943               | ..              | 7,207        | 343,453 | 343,453 |
|          | Disposed of     | 76            | 1,074           | 22,735     | 3,568                               | 5,518     | 251,496     | ..                         | ..                | 4,268               | ..              | 5,261        | 293,996 | 293,996 |
|          | Pending         | 89            | 7,525           | 88,891     | 13,556                              | 15,297    | 455,256     | ..                         | ..                | 28,206              | ..              | 6,338        | 615,158 | 615,158 |
| 2020/21* | Filed           | 47            | 2,505           | 26,224     | 2,918                               | 4,856     | 310,470     | 1,023                      | ..                | 5,335               | ..              | 8,954        | 362,332 | 362,332 |
|          | Disposed of     | 62            | 1,240           | 24,214     | 2,434                               | 5,748     | 253,272     | 637                        | ..                | 3,056               | ..              | 7,230        | 297,893 | 297,893 |
|          | Pending         | 74            | 8,790           | 90,901     | 14,040                              | 14,405    | 512,454     | 386                        | ..                | 30,485              | ..              | 8,062        | 679,597 | 679,597 |

Source: Judiciary

\*Provisional

.. Data not available

† Small Claim Courts started operations in 2020

Note:

Filed cases refer to all cases brought before a court during the year in reference, disposed of cases refers to all cases that were resolved/determined by 30th June of the year in reference and pending cases refer to the cases which had not been determined/resolved by 30th June of the year in reference

**17.20.** Table 17.12 presents the number of judicial officers and practicing lawyers for the period 2017 to 2021. Total number of judicial officers increased by 4.6 per cent from 678 in 2020 to 709 in 2021. The

number of judges and magistrates increased from 152 and 474 in 2020 to 174 and 483, respectively in 2021. The number of practicing lawyers increased by 4.9 per cent from 11,960 in 2020 to 12,544 in 2021.

**Table 17.12: Distribution of Judicial Officers and Practicing Lawyers, 2017 –2021**

| Judicial Officers<br>and Practising<br>Lawyers | Number       |              |              |             |             |              |             |              |               |              |              |               |              |              |               |
|--|--------------|--------------|--------------|-------------|-------------|--------------|-------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|---------------|
|  | 2017         |              |              | 2018        |             |              | 2019        |              |               | 2020         |              |               | 2021*        |              |               |
|  | Male         | Fe-<br>male  | Total        | Male        | Fe-<br>male | Total        | Male        | Fe-<br>male  | Total         | Male         | Fe-<br>male  | Total         | Male         | Fe-<br>male  | Total         |
| <b>Judges</b>                                  |              |              |              |             |             |              |             |              |               |              |              |               |              |              |               |
| Supreme Court Judges                           | 5            | 2            | 7            | 5           | 2           | 7            | 5           | 2            | 7             | 4            | 2            | 6             | 4            | 3            | 7             |
| Court of Appeal Judges                         | 15           | 7            | 22           | 12          | 7           | 19           | 12          | 7            | 19            | 12           | 7            | 19            | 10           | 10           | 20            |
| High Court Judges                              | 48           | 37           | 85           | 42          | 40          | 82           | 45          | 40           | 85            | 42           | 40           | 82            | 40           | 35           | 75            |
| Employment & Labor Judges                      | 8            | 4            | 12           | 8           | 4           | 12           | 8           | 4            | 12            | 8            | 4            | 12            | 11           | 10           | 21            |
| Environment & Land Judges                      | 21           | 13           | 34           | 21          | 13          | 34           | 20          | 10           | 30            | 19           | 14           | 33            | 31           | 20           | 51            |
| <b>Sub-Total</b>                               | <b>97</b>    | <b>63</b>    | <b>160</b>   | <b>88</b>   | <b>66</b>   | <b>154</b>   | <b>90</b>   | <b>63</b>    | <b>153</b>    | <b>85</b>    | <b>67</b>    | <b>152</b>    | <b>96</b>    | <b>78</b>    | <b>174</b>    |
| <b>Magistrates</b>                             |              |              |              |             |             |              |             |              |               |              |              |               |              |              |               |
| Chief Magistrates                              | 28           | 20           | 48           | 26          | 19          | 45           | 32          | 26           | 58            | 30           | 22           | 52            | 42           | 33           | 75            |
| Senior Principal Magistrate                    | 33           | 22           | 55           | 33          | 22          | 55           | 45          | 32           | 77            | 38           | 26           | 64            | 50           | 23           | 73            |
| Principal Magistrate                           | 41           | 21           | 62           | 41          | 23          | 64           | 51          | 36           | 87            | 53           | 37           | 90            | 67           | 72           | 139           |
| Senior Resident Magistrate                     | 76           | 78           | 154          | 75          | 76          | 151          | 79          | 110          | 189           | 73           | 106          | 179           | 41           | 67           | 108           |
| Resident Magistrate                            | 36           | 66           | 102          | 69          | 75          | 144          | 27          | 65           | 92            | 28           | 61           | 89            | 26           | 62           | 88            |
| <b>Sub-Total</b>                               | <b>214</b>   | <b>207</b>   | <b>421</b>   | <b>244</b>  | <b>215</b>  | <b>459</b>   | <b>234</b>  | <b>269</b>   | <b>503</b>    | <b>222</b>   | <b>252</b>   | <b>474</b>    | <b>226</b>   | <b>257</b>   | <b>483</b>    |
| <b>Kadhis</b>                                  |              |              |              |             |             |              |             |              |               |              |              |               |              |              |               |
| Chief Kadhi                                    | 1            | 0            | 1            | 1           | 0           | 1            | 1           | 0            | 1             | 1            | 0            | 1             | 1            | 0            | 1             |
| Senior Principal Kadhi                         | 2            | 0            | 2            | 1           | 0           | 1            | 1           | 0            | 1             | 1            | 0            | 1             | 1            | 0            | 1             |
| Principal Kadhi                                | 10           | 0            | 10           | 10          | 0           | 10           | 10          | 0            | 10            | 9            | 0            | 9             | 9            | 0            | 9             |
| Senior Resident Kadhi                          | 19           | 0            | 19           | 19          | 0           | 19           | 20          | 0            | 20            | 20           | 0            | 20            | 20           | 0            | 20            |
| Resident Kadhi                                 | 23           | 0            | 23           | 23          | 0           | 23           | 21          | 0            | 21            | 21           | 0            | 21            | 21           | 0            | 21            |
| <b>Sub-Total</b>                               | <b>55</b>    | <b>0</b>     | <b>55</b>    | <b>54</b>   | <b>0</b>    | <b>54</b>    | <b>53</b>   | <b>0</b>     | <b>53</b>     | <b>52</b>    | <b>0</b>     | <b>52</b>     | <b>52</b>    | <b>0</b>     | <b>52</b>     |
| <b>Total Magistrates &amp; Kadhis</b>          | <b>269</b>   | <b>207</b>   | <b>476</b>   | <b>298</b>  | <b>215</b>  | <b>513</b>   | <b>287</b>  | <b>269</b>   | <b>556</b>    | <b>274</b>   | <b>252</b>   | <b>526</b>    | <b>278</b>   | <b>257</b>   | <b>535</b>    |
| <b>Total Judicial Officers</b>                 | <b>366</b>   | <b>270</b>   | <b>636</b>   | <b>386</b>  | <b>281</b>  | <b>667</b>   | <b>377</b>  | <b>332</b>   | <b>709</b>    | <b>359</b>   | <b>319</b>   | <b>678</b>    | <b>374</b>   | <b>335</b>   | <b>709</b>    |
| <b>Practicing Lawyers</b>                      | <b>5,122</b> | <b>3,858</b> | <b>8,980</b> | <b>5561</b> | <b>4232</b> | <b>9,893</b> | <b>5993</b> | <b>4,775</b> | <b>10,768</b> | <b>6,494</b> | <b>5,466</b> | <b>11,960</b> | <b>6,760</b> | <b>5,784</b> | <b>12,544</b> |

Source: Judiciary and Law Society of Kenya

\* Provisional

## Prison

**17.21.** The number of persons committed to prison from 2017 to 2021 by sex is presented in Table 17.13. The total prison population increased from 86,119 in 2020 to 160,021 in 2021. The number of convicted prisoners more than doubled from 29,306 in 2020 to 65,463 in 2021 while un-convicted prisoners increased by 66.6 per cent to 94,658 during the same

period. Remandees and those committed to prison for civil debt formed the majority of prison population in 2021 at 59.2 per cent. Convicted prisoners sentenced to a period of between one month and less than 2 years accounted for the majority of all convicted prisoners at 67.3 per cent.

**Table 17.13: Persons Committed to Prison by Sex, 2017 – 2021**

| Categories of Prisoners                           | 2017           |               | 2018           |               | 2019           |               | 2020          |              | 2021*          |               | Number        |
|---|----------------|---------------|----------------|---------------|----------------|---------------|---------------|--------------|----------------|---------------|---------------|
|   | Male           | Female        | Male           | Female        | Male           | Female        | Male          | Female       | Male           | Female        |               |
| <b>Sentenced to:</b>                              |                |               |                |               |                |               |               |              |                |               |               |
| Less than 1 Month                                 | 18,758         | 1,531         | 16,365         | 1,657         | 16,400         | 1,643         | 3,563         | 522          | 12,579         | 1,198         |               |
| 1 Month to < 2 years                              | 43,218         | 5,796         | 48,299         | 7,865         | 42,712         | 7,627         | 17,254        | 2,854        | 37,171         | 6,885         |               |
| 2 yrs or more                                     | 8,547          | 561           | 7,852          | 492           | 7,797          | 538           | 4,642         | 321          | 6,881          | 403           |               |
| Life imprisonment                                 | 1,108          | 74            | 973            | 8             | 507            | 4             | 128           | 2            | 268            | 5             |               |
| Death sentence                                    | 769            | 42            | 379            | 6             | 114            | 5             | 20            | 0            | 72             | 1             |               |
| <b>Total Convicted Prisoners</b>                  | <b>72,400</b>  | <b>8,004</b>  | <b>73,868</b>  | <b>10,028</b> | <b>67,530</b>  | <b>9,817</b>  | <b>25,607</b> | <b>3,699</b> | <b>56,971</b>  | <b>8,492</b>  | <b>65,463</b> |
| Committed for civil debt                          | 326            | 113           | 497            | 103           | 503            | 145           | 178           | 22           | 307            | 115           |               |
| Committed to remand                               | 117,203        | 10,122        | 127,834        | 11,388        | 129,049        | 12,251        | 52,446        | 4,167        | 87,824         | 6,412         |               |
| <b>Total unconvicted prisoners</b>                | <b>117,529</b> | <b>10,235</b> | <b>128,331</b> | <b>11,491</b> | <b>129,552</b> | <b>12,396</b> | <b>52,624</b> | <b>4,189</b> | <b>88,131</b>  | <b>6,527</b>  |               |
| <b>Total Persons Committed to Prisons</b>         | <b>189,929</b> | <b>18,239</b> | <b>202,199</b> | <b>21,519</b> | <b>197,082</b> | <b>22,213</b> | <b>78,231</b> | <b>7,888</b> | <b>145,102</b> | <b>14,919</b> | <b>94,658</b> |
| Previously convicted                              | 16,371         | 1,453         | 15,826         | 1,161         | 16,484         | 2,265         | 7,780         | 391          | 9,876          | 645           |               |
| Deaths (Excluding Executions)                     | 166            | 10            | 108            | 11            | 80             | 3             | 72            | 6            | 105            | 8             |               |
| <b>“Prison population per 100,000 Population”</b> | <b>446.8</b>   |               | <b>467.6</b>   |               | <b>461.0</b>   |               | <b>176.9</b>  |              | <b>324.2</b>   |               |               |

Source: Kenya Prison Service

\* Provisional

**17.22.** Table 17.14 shows daily average prison population by sex, for the period 2017 to 2021. The daily average population of convicted and unconvicted prisoners increased to 26,082 and

21,590, respectively in 2021. Overall, the daily average population of male and female prisoners more than doubled to 44,285 and 3,387, respectively in 2021.

**Table 17.14: Daily Average Population of Prisoners by Sex, 2017-2021**

|                              | 2017          | 2018          | 2019          | 2020          | Number<br>2021* |
|------------------------------|---------------|---------------|---------------|---------------|-----------------|
| <b>Convicted Prisoners</b>   |               |               |               |               |                 |
| Males                        | 30,280        | 30,246        | 28,289        | 10,727        | 24,331          |
| Females                      | 1,469         | 1,525         | 1,507         | 567           | 1,751           |
| <b>Sub-Total</b>             | <b>31,749</b> | <b>31,771</b> | <b>29,796</b> | <b>11,294</b> | <b>26,082</b>   |
| <b>Unconvicted Prisoners</b> |               |               |               |               |                 |
| Males                        | 18,156        | 20,141        | 21,482        | 8,725         | 19,954          |
| Females                      | 1,785         | 1,853         | 2,070         | 699           | 1,636           |
| <b>Sub -Total</b>            | <b>19,941</b> | <b>21,994</b> | <b>23,552</b> | <b>9,424</b>  | <b>21,590</b>   |
| <b>Total</b>                 | <b>51,690</b> | <b>53,765</b> | <b>53,348</b> | <b>20,718</b> | <b>47,672</b>   |

Source: Kenya Prisons Service

\* Provisional

**17.23.** The number of convicted persons for the period 2017 to 2021 by age and sex are shown in Table 17.15. There was a general increase in the number of convicted prisoners for all age cohorts except those under 16 years which decreased from 65 persons in 2020 to 56 persons in 2021. The number of convicted child (under 18 years) prisoners increased by 17.0 per cent from 347 in 2020 to 406 in

2021. Similarly, the number of young-adult-prisoners of age 18-25 years increased sharply from 12,487 in 2020 to 28,956 in 2021 while those aged 26 years and above more than doubled to 36,101 inmates in 2021. The increase is attributed to resumption of court services to normalcy, minimal sentence reviews, and minimal application of Alternative Dispute Resolution (ADR).

**Table 17.15: Convicted Persons Committed to Prison by Age and Sex, 2017-2021**

| Year  | Sex          | Age Cohort |              |               |               |               |              | Number        |
|-------|--------------|------------|--------------|---------------|---------------|---------------|--------------|---------------|
|       |              | Under 16   | 16 -17       | 18-20         | 21-25         | 26-50         | Over 50      |               |
| 2017  | Male         | 108        | 1,393        | 11,886        | 24,559        | 28,384        | 6,070        | 72,400        |
|       | Female       | 6          | 31           | 865           | 2,560         | 3,849         | 693          | 8,004         |
|       | <b>Total</b> | <b>114</b> | <b>1,424</b> | <b>12,751</b> | <b>27,119</b> | <b>32,233</b> | <b>6,763</b> | <b>80,404</b> |
| 2018  | Male         | 118        | 2,028        | 13,572        | 22,428        | 29,280        | 6,442        | 73,868        |
|       | Female       | 13         | 82           | 1,126         | 2,448         | 5,342         | 1,017        | 10,028        |
|       | <b>Total</b> | <b>131</b> | <b>2,110</b> | <b>14,698</b> | <b>24,876</b> | <b>34,622</b> | <b>7,459</b> | <b>83,896</b> |
| 2019  | Male         | 57         | 1,162        | 10,831        | 19,597        | 30,503        | 5,380        | 67,530        |
|       | Female       | 11         | 55           | 932           | 2,324         | 5,313         | 1,182        | 9,817         |
|       | <b>Total</b> | <b>68</b>  | <b>1,217</b> | <b>11,763</b> | <b>21,921</b> | <b>35,816</b> | <b>6,562</b> | <b>77,347</b> |
| 2020  | Male         | 64         | 255          | 3,998         | 7,275         | 11,972        | 2,043        | 25,607        |
|       | Female       | 1          | 27           | 355           | 859           | 2,085         | 372          | 3,699         |
|       | <b>Total</b> | <b>65</b>  | <b>282</b>   | <b>4,353</b>  | <b>8,134</b>  | <b>14,057</b> | <b>2,415</b> | <b>29,306</b> |
| 2021* | Male         | 53         | 336          | 8,815         | 17,158        | 26,942        | 3,667        | 56,971        |
|       | Female       | 3          | 14           | 840           | 2,143         | 4,718         | 774          | 8,492         |
|       | <b>Total</b> | <b>56</b>  | <b>350</b>   | <b>9,655</b>  | <b>19,301</b> | <b>31,660</b> | <b>4,441</b> | <b>65,463</b> |

Source: Kenya Prison Service

\* Provisional

**17.24.** Table 17.16 provides data on convicted prisoners by type of offence and sex, from 2017 to 2021. Persons convicted for liquor offences in 2021 accounted for the highest number of convicted prisoners at 20.3 per cent of all inmates.

The prisoners convicted for offences related to order and administration of lawful authority accounted for 15.4 per cent while those convicted for offences relating to property accounted for 10.2 per cent in the same period.

**Table 17.16: Convicted Prisoners by Type of Offence and Sex, 2017-2021**

| Type of Offence <sup>1</sup>                 | 2017          |              |               |               |               |               | 2018          |              |               |               |              |               | 2019          |              |               |      |        |       | 2020 |        |       |      |        |       | 2021* |  |  |  |  |  |
|--|---------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|---------------|--------------|---------------|------|--------|-------|------|--------|-------|------|--------|-------|-------|--|--|--|--|--|
|  | Male          | Female       | Total         | Male          | Female        | Total         | Male          | Female       | Total         | Male          | Female       | Total         | Male          | Female       | Total         | Male | Female | Total | Male | Female | Total | Male | Female | Total |       |  |  |  |  |  |
| Liquor offences                              | 20,879        | 5,145        | <b>26,024</b> | 19,163        | 6,698         | <b>25,861</b> | 15,716        | 6,406        | <b>22,122</b> | 4,440         | 2,028        | <b>6,468</b>  | 11,670        | 4,681        | <b>13,321</b> |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Order and administration of lawful authority | 8,143         | 366          | <b>8,509</b>  | 10,274        | 460           | <b>10,734</b> | 9,334         | 420          | <b>9,754</b>  | 3,823         | 178          | <b>4,001</b>  | 8,116         | 922          | <b>10,068</b> |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Related to property                          | 7,953         | 353          | <b>8,306</b>  | 8,065         | 415           | <b>8,480</b>  | 8,011         | 416          | <b>8,427</b>  | 3,762         | 186          | <b>3,948</b>  | 6,325         | 323          | <b>6,648</b>  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Against person                               | 6,211         | 318          | <b>6,529</b>  | 6,043         | 401           | <b>6,444</b>  | 5,398         | 438          | <b>5,836</b>  | 2,693         | 224          | <b>2,917</b>  | 4,362         | 348          | <b>4,710</b>  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Drugs related                                | 5,243         | 154          | <b>5,397</b>  | 4,733         | 136           | <b>4,869</b>  | 4,993         | 273          | <b>5,266</b>  | 1,509         | 112          | <b>1,621</b>  | 2,207         | 54           | <b>2,261</b>  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Injurious to public                          | 3,186         | 139          | <b>3,325</b>  | 2,855         | 197           | <b>3,052</b>  | 2,869         | 211          | <b>3,080</b>  | 1,411         | 87           | <b>1,498</b>  | 2,884         | 215          | <b>3,099</b>  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Employment                                   | 4,093         | 169          | <b>4,262</b>  | 6,636         | 185           | <b>6,821</b>  | 2,506         | 191          | <b>2,697</b>  | 420           | 10           | <b>430</b>    | 1,233         | 38           | <b>1,271</b>  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Attempts & conspiracies                      | 1,593         | 40           | <b>1,633</b>  | 1,528         | 68            | <b>1,596</b>  | 1,624         | 53           | <b>1,677</b>  | 633           | 23           | <b>656</b>    | 1,270         | 53           | <b>1,323</b>  |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Registration of persons <sup>2</sup>         | 97            | 6            | <b>103</b>    | 83            | 4             | <b>87</b>     | 49            | 0            | <b>49</b>     | 16            | 0            | <b>16</b>     | 69            | 13           | <b>82</b>     |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| Various other cases                          | 15,002        | 1,314        | <b>16,316</b> | 14,488        | 1,464         | <b>15,952</b> | 17,030        | 1,409        | <b>18,439</b> | 6,900         | 851          | <b>7,751</b>  | 18,835        | 1,845        | <b>22,680</b> |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |
| <b>Total</b>                                 | <b>72,400</b> | <b>8,004</b> | <b>80,404</b> | <b>73,868</b> | <b>10,028</b> | <b>83,896</b> | <b>67,530</b> | <b>9,817</b> | <b>77,347</b> | <b>25,607</b> | <b>3,699</b> | <b>29,306</b> | <b>56,971</b> | <b>8,492</b> | <b>65,463</b> |      |        |       |      |        |       |      |        |       |       |  |  |  |  |  |

Source: Kenya Prison Service

\* Provisional

<sup>1</sup> As categorised in Table 17.29<sup>2</sup> Refers to offences outlined in the Registration of Persons Act Cap 107 such as illegal registrations

## Probation, Community Service and Aftercare

**17.25.** Table 17.17 shows the number of offenders serving probation sentence, community service and aftercare by sex and type of offence for 2020 and 2021. The total number of offenders serving probation sentence increased by 73.4 per cent from 4,730 in

2020 to 8,202 in 2021. The total number of offenders under community service increased from 15,666 in 2020 to 25,141 in 2021. However, offenders serving aftercare decreased from 91 in 2020 to 54 in 2021.

**Table 17.17: Offenders Serving Probation Sentence, Community Service and Aftercare by Sex and Type of Offence, 2020 and 2021**

| Offence                            | Number                               |              |              |              |                                     |              |               |              |                             |          |           |          |
|------------------------------------|--------------------------------------|--------------|--------------|--------------|-------------------------------------|--------------|---------------|--------------|-----------------------------|----------|-----------|----------|
|                                    | Offenders Serving Probation Sentence |              |              |              | Offenders Serving Community Service |              |               |              | Offenders Serving Aftercare |          |           |          |
|                                    | 2020                                 |              | 2021*        |              | 2020                                |              | 2021*         |              | 2020                        |          | 2021*     |          |
|                                    | Male                                 | Female       | Male         | Female       | Male                                | Female       | Male          | Female       | Male                        | Female   | Male      | Female   |
| Homicide                           | 38                                   | 19           | 93           | 32           | 1                                   | 0            | 0             | 7            | 0                           | 0        | 0         | 0        |
| Offences against morality          | 93                                   | 3            | 271          | 7            | 5                                   | 0            | 51            | 0            | 30                          | 0        | 21        | 0        |
| Other offences against persons     | 582                                  | 271          | 1287         | 562          | 278                                 | 54           | 482           | 77           | 7                           | 0        | 8         | 1        |
| Robbery and Allied offences        | 34                                   | 1            | 41           | 3            | 21                                  | 1            | 45            | 3            | 1                           | 0        | 4         | 0        |
| Breakings                          | 349                                  | 10           | 377          | 12           | 114                                 | 10           | 296           | 2            | 20                          | 0        | 3         | 0        |
| Theft of Stock                     | 88                                   | 7            | 188          | 5            | 49                                  | 0            | 124           | 2            | 3                           | 0        | 0         | 0        |
| General stealing                   | 378                                  | 35           | 1,107        | 105          | 490                                 | 24           | 717           | 26           | 20                          | 0        | 9         | 1        |
| Theft by servant                   | 44                                   | 9            | 104          | 40           | 227                                 | 3            | 32            | 7            | 0                           | 0        | 0         | 0        |
| Theft of Vehicles and other thefts | 10                                   | 0            | 12           | 0            | 5                                   | 0            | 18            | 1            | 0                           | 0        | 0         | 0        |
| Dangerous drugs <sup>1</sup>       | 446                                  | 56           | 852          | 75           | 345                                 | 73           | 501           | 43           | 6                           | 1        | 0         | 0        |
| Handling stolen property           | 21                                   | 6            | 74           | 6            | 19                                  | 0            | 43            | 2            | 0                           | 0        | 6         | 0        |
| Causing death by dangerous driving | 8                                    | 1            | 20           | 0            | 1                                   | 0            | 3             | 0            | 0                           | 0        | 0         | 0        |
| Other offences against property    | 635                                  | 130          | 931          | 116          | 490                                 | 67           | 562           | 14           | 0                           | 0        | 1         | 0        |
| All other penal code offences      | 876                                  | 580          | 1293         | 589          | 10972                               | 2417         | 18623         | 3460         | 3                           | 0        | 0         | 0        |
| <b>TOTAL</b>                       | <b>3,602</b>                         | <b>1,128</b> | <b>6,650</b> | <b>1,552</b> | <b>13,017</b>                       | <b>2,649</b> | <b>21,497</b> | <b>3,644</b> | <b>90</b>                   | <b>1</b> | <b>52</b> | <b>2</b> |

Source: Probation and Aftercare Department

\* Provisional

<sup>1</sup> See Table 17.28

**17.26.** Table 17.18 presents the number of national police service, prisons and probation officers by sex from 2017 to 2021. The total number of police officers, both the Kenya Police and Administration Police increased from 100,481 in 2020 to 101,421 in 2021. The number of prison officers decreased slightly from 28,272 in 2020 to 28,039 in 2021 while

that of probation officers almost doubled from 769 in 2020 to 1,271 in 2021. The proportion of female officers in the National Police Service, Kenya Prisons Service, and the Department of Probation and Aftercare Services was 13.1, 21.8 and 47.8 per cent, respectively in 2021.

**Table 17.18: National Police Service, Prisons and Probation Officers, 2017– 2021**

| Year  | Sex          | National Police Service Officers |                       |                | Prison Officers  |                     |               | Probation Officers | Number |
|-------|--------------|----------------------------------|-----------------------|----------------|------------------|---------------------|---------------|--------------------|--------|
|       |              | Kenya Police                     | Administration Police | Total          | In Adult Prisons | In Juvenile Prisons | Total         |                    |        |
| 2017  | Male         | 39,945                           | 31,774                | 71,719         | 18,984           | 341                 | 19,325        | 414                |        |
|       | Female       | 6,949                            | 5,095                 | 12,044         | 4,079            | 132                 | 4,211         | 417                |        |
|       | <b>Total</b> | <b>46,894</b>                    | <b>36,869</b>         | <b>83,763</b>  | <b>23,063</b>    | <b>473</b>          | <b>23,536</b> | <b>831</b>         |        |
| 2018  | Male         | 51,143                           | 40,682                | 91,825         | 19,619           | 348                 | 19,967        | 407                |        |
|       | Female       | 8,102                            | 5,940                 | 14,042         | 4,385            | 89                  | 4,474         | 417                |        |
|       | <b>Total</b> | <b>59,245</b>                    | <b>46,622</b>         | <b>105,867</b> | <b>24,004</b>    | <b>437</b>          | <b>24,441</b> | <b>824</b>         |        |
| 2019  | Male         | 58,145                           | 29,934                | 88,079         | 19,280           | 345                 | 19,625        | 395                |        |
|       | Female       | 10,077                           | 3,770                 | 13,847         | 4,262            | 162                 | 4,424         | 408                |        |
|       | <b>Total</b> | <b>68,222</b>                    | <b>33,704</b>         | <b>101,926</b> | <b>23,542</b>    | <b>507</b>          | <b>24,049</b> | <b>803</b>         |        |
| 2020  | Male         | 57,051                           | 29,612                | 86,663         | 21,749           | 406                 | 22,155        | 375                |        |
|       | Female       | 10,053                           | 3,765                 | 13,818         | 5,908            | 209                 | 6,117         | 394                |        |
|       | <b>Total</b> | <b>67,104</b>                    | <b>33,377</b>         | <b>100,481</b> | <b>27,657</b>    | <b>615</b>          | <b>28,272</b> | <b>769</b>         |        |
| 2021* | Male         | 65,063                           | 23,079                | 88,142         | 21,548           | 386                 | 21,934        | 663                |        |
|       | Female       | 11,945                           | 1,334                 | 13,279         | 5,890            | 215                 | 6,105         | 608                |        |
|       | <b>Total</b> | <b>77,008</b>                    | <b>24,413</b>         | <b>101,421</b> | <b>27,438</b>    | <b>601</b>          | <b>28,039</b> | <b>1,271</b>       |        |

Source: National Police Service, Kenya Prisons Service and Department of Probation and Aftercare Service

\* Provisional

## Immigration

**17.27.** The number of passports and work permits issued, and foreign nationals registered for the period 2017 to 2021 is shown in Table 17.19. The number of passports issued increased by 24.8 per cent from 219,090 in 2020 to 273,328 in 2021. This is attributed to increase in the number of people to be served per

day (appointments) to 1,000 in 2021 from 300 in 2020. Registration of foreign nationals increased by 29.8 per cent to 24,713 in 2021. Work permits issued and work permits renewed increased by 25.3 and 5.1 per cent, respectively during the review period mainly due to the full online processing introduced in 2021.

**Table 17.19: Passports and Work Permits Issued, and Foreign Nationals Registered, 2017-2021**

| Category                                  | Number  |         |         |         |         |
|---|---------|---------|---------|---------|---------|
|   | 2017    | 2018    | 2019    | 2020    | 2021*   |
| Passports issued                          | 136,990 | 241,095 | 446,954 | 219,090 | 273,328 |
| Foreign Nationals Registered <sup>1</sup> | 29,318  | 32,332  | 27,092  | 19,034  | 24,713  |
| New Work permits issued <sup>2</sup>      | 8,366   | 9,465   | 8,967   | 5,851   | 7,332   |
| Work Permits Renewed                      | 10,551  | 12,160  | 10,501  | 11,395  | 11,973  |

Source: Department of Immigration

\* Provisional

<sup>1</sup> Means the same as "Aliens registered" in previous reports

<sup>2</sup> Means the same as "Entry permits" in previous reports

### National Identity Cards

**17.28.** Table 17.20 presents data on new identity card applications made, cards produced and cards collected by County from 2017 to 2021. The number of applications made almost doubled from 648,573 in 2020 to 1,167,954 in 2021. This is attributed to the RRI registration and mobile registration conducted by the National Registration Bureau. The highest number of applications was recorded in Nairobi City County at 68,016 followed by Kakamega County

at 58,583 in 2021. Only Isiolo County recorded a decrease in the number of applications from 3,394 in 2020 to 3,201 in 2021. The total number of newly produced identity cards increased by 43.4 per cent from 687,907 in 2020 to 986,377 in 2021. Garissa County recorded the highest increase in the number of cards produced from 5,443 cards in 2020 to 17,067 cards in 2021. There was an increase of 16.3 per cent in the cards collected across all counties.

**Table 17.20: New Identity Card Applications Made, Produced and Collected by County, 2017 – 2021**

| S/<br>No | County          | NPR Applications |        |        |        |        | NPR IDs Produced |        |        |        |        | NPR IDs Collected |        |        |        |        | Number |
|----------|-----------------|------------------|--------|--------|--------|--------|------------------|--------|--------|--------|--------|-------------------|--------|--------|--------|--------|--------|
|          |                 | 2017             | 2018   | 2019   | 2020   | 2021*  | 2017             | 2018   | 2019   | 2020   | 2021*  | 2017              | 2018   | 2019   | 2020   | 2021*  |        |
| 1        | Mombasa         | 21,640           | 17,547 | 21,298 | 12,793 | 18,475 | 23,255           | 16,760 | 19,194 | 13,004 | 16,113 | 24,165            | 16,105 | 19,194 | 14,251 | 14,021 |        |
| 2        | Kwale           | 21,808           | 22,139 | 27,608 | 11,924 | 19,514 | 27,311           | 19,204 | 15,862 | 13,971 | 17,839 | 29,828            | 17,751 | 15,862 | 16,222 | 17,278 |        |
| 3        | Kilifi          | 41,483           | 36,771 | 42,151 | 19,282 | 36,693 | 41,641           | 30,936 | 33,902 | 18,505 | 27,886 | 43,175            | 30,050 | 33,902 | 20,828 | 21,547 |        |
| 4        | Tana River      | 6,850            | 4,477  | 9,945  | 5,737  | 8,553  | 9,577            | 4,626  | 3,184  | 7,738  | 7,689  | 11,533            | 4,281  | 3,184  | 6,872  | 6,269  |        |
| 5        | Lamu            | 2,408            | 1,712  | 3,815  | 763    | 3,429  | 9,827            | 1,585  | 2,420  | 2,595  | 3,664  | 4,149             | 1,807  | 2,420  | 2,638  | 3,351  |        |
| 6        | Taita/Taveta    | 9,258            | 7,631  | 9,934  | 5,903  | 7,972  | 3,248            | 7,147  | 8,012  | 6,039  | 7,027  | 9,649             | 6,590  | 8,012  | 6,409  | 7,108  |        |
| 7        | Ganissa         | 6,242            | 9,753  | 4,363  | 5,901  | 8,540  | 18,341           | 10,744 | 6,563  | 5,443  | 17,067 | 8,781             | 4,266  | 6,563  | 3,614  | 6,592  |        |
| 8        | Wajir           | 9,189            | 10,156 | 10,275 | 8,022  | 11,909 | 15,187           | 7,611  | 4,776  | 9,260  | 13,911 | 9,248             | 7,436  | 4,776  | 6,319  | 12,607 |        |
| 9        | Mandera         | 13,563           | 7,059  | 14,206 | 7,702  | 10,672 | 18,977           | 8,534  | 7,241  | 9,846  | 17,104 | 8,539             | 5,075  | 7,241  | 6,059  | 10,684 |        |
| 10       | Marsabit        | 6,656            | 9,739  | 8,485  | 4,564  | 6,853  | 10,599           | 5,419  | 6,386  | 6,191  | 6,919  | 7,513             | 5,704  | 6,386  | 7,597  | 5,018  |        |
| 11       | Isiolo          | 3,446            | 3,209  | 4,097  | 3,394  | 3,201  | 5,414            | 3,232  | 1,858  | 2,954  | 3,714  | 5,131             | 3,367  | 1,858  | 2,401  | 2,432  |        |
| 12       | Meru            | 25,892           | 35,678 | 26,947 | 24,842 | 35,681 | 47,667           | 23,422 | 35,056 | 21,182 | 34,380 | 24,309            | 21,470 | 35,056 | 23,695 | 30,672 |        |
| 13       | Tharaka-Nithi   | 7,557            | 9,354  | 9,566  | 5,587  | 10,760 | 9,805            | 6,726  | 11,060 | 6,986  | 9,044  | 9,284             | 5,817  | 11,060 | 6,823  | 7,544  |        |
| 14       | Embu            | 13,670           | 11,554 | 16,733 | 8,365  | 12,626 | 15,929           | 10,322 | 17,167 | 9,138  | 11,815 | 17,011            | 9,030  | 17,167 | 10,052 | 12,240 |        |
| 15       | Kitui           | 38,491           | 34,656 | 44,712 | 18,950 | 38,878 | 38,547           | 30,831 | 42,339 | 19,817 | 29,067 | 39,888            | 30,299 | 42,339 | 22,364 | 24,716 |        |
| 16       | Machakos        | 37,870           | 28,695 | 40,316 | 15,958 | 28,932 | 37,535           | 27,080 | 33,773 | 18,065 | 23,531 | 37,450            | 24,032 | 33,773 | 18,379 | 21,292 |        |
| 17       | Makueni         | 36,014           | 29,629 | 39,646 | 14,924 | 28,385 | 36,002           | 28,311 | 35,487 | 17,550 | 25,076 | 36,313            | 22,459 | 35,487 | 19,112 | 22,658 |        |
| 18       | Nyandarua       | 21,095           | 14,420 | 23,326 | 9,789  | 17,923 | 21,368           | 11,535 | 18,435 | 10,276 | 15,867 | 21,335            | 10,544 | 18,435 | 12,819 | 13,215 |        |
| 19       | Nyeri           | 18,006           | 14,744 | 18,369 | 14,857 | 17,544 | 19,628           | 12,326 | 18,758 | 11,412 | 17,016 | 17,865            | 11,997 | 18,758 | 11,859 | 13,278 |        |
| 20       | Kirinyaga       | 16,164           | 10,905 | 15,633 | 8,269  | 13,136 | 18,733           | 9,622  | 14,187 | 8,196  | 12,135 | 16,186            | 8,500  | 14,187 | 8,279  | 9,313  |        |
| 21       | Murang'a        | 31,176           | 20,100 | 28,709 | 16,486 | 26,230 | 33,699           | 17,615 | 27,827 | 17,715 | 23,406 | 53,748            | 17,097 | 27,827 | 18,035 | 20,743 |        |
| 22       | Kiambu          | 47,335           | 34,439 | 45,410 | 29,802 | 41,518 | 52,095           | 31,888 | 42,866 | 32,233 | 40,651 | 48,415            | 30,507 | 42,866 | 31,418 | 35,213 |        |
| 23       | Turkana         | 18,396           | 17,138 | 17,192 | 10,165 | 16,255 | 15,567           | 12,929 | 10,263 | 11,555 | 10,223 | 13,721            | 10,402 | 10,263 | 11,448 | 6,513  |        |
| 24       | West Pokot      | 19,050           | 16,776 | 19,149 | 5,026  | 16,173 | 22,019           | 13,613 | 12,240 | 6,721  | 9,228  | 23,039            | 12,404 | 12,240 | 9,784  | 8,201  |        |
| 25       | Samburu         | 7,964            | 4,385  | 9,037  | 2,761  | 7,989  | 6,982            | 3,872  | 4,936  | 3,614  | 6,011  | 6,275             | 3,122  | 4,936  | 5,034  | 2,896  |        |
| 26       | Trans Nzoia     | 30,731           | 30,885 | 30,999 | 15,994 | 30,303 | 31,169           | 24,337 | 24,344 | 16,820 | 26,583 | 26,701            | 20,171 | 24,344 | 15,727 | 22,198 |        |
| 27       | Uasin Gishu     | 31,223           | 20,614 | 26,393 | 13,725 | 30,361 | 33,989           | 19,627 | 25,197 | 14,722 | 24,053 | 31,792            | 19,641 | 25,197 | 16,126 | 22,432 |        |
| 28       | Elgeyo/Marakwet | 12,319           | 11,708 | 18,554 | 5,440  | 16,926 | 15,931           | 10,700 | 11,798 | 6,096  | 12,057 | 14,851            | 9,147  | 11,798 | 7,660  | 10,011 |        |
| 29       | Nandi           | 29,253           | 21,283 | 22,015 | 10,706 | 28,780 | 33,559           | 18,454 | 22,961 | 10,884 | 21,182 | 31,696            | 17,437 | 22,961 | 12,710 | 18,877 |        |

**Table 17.20: New Identity Card Applications Made, Produced and Collected by County, 2017 – 2021 (Continued)**

| S/<br>No     | County                         | NPR Applications |                |                  |                |                  | NPR IDs Produced |                |                  |                |                | NPR IDs Collected |                |                  |                |                | Number |
|--------------|--------------------------------|------------------|----------------|------------------|----------------|------------------|------------------|----------------|------------------|----------------|----------------|-------------------|----------------|------------------|----------------|----------------|--------|
|              |                                | 2017             | 2018           | 2019             | 2020           | 2021*            | 2017             | 2018           | 2019             | 2020           | 2021*          | 2017              | 2018           | 2019             | 2020           | 2021*          |        |
| 30           | Baringo                        | 20,979           | 13,863         | 21,963           | 11,707         | 16,181           | 24,455           | 14,162         | 16,321           | 10,974         | 14,099         | 23,074            | 11,060         | 16,321           | 12,665         | 11,819         |        |
| 31           | Laikipia                       | 12,059           | 8,289          | 13,580           | 7,608          | 12,717           | 13,434           | 8,679          | 11,112           | 7,227          | 9,925          | 14,310            | 8,027          | 11,112           | 7,889          | 8,708          |        |
| 32           | Nakuru                         | 59,682           | 38,437         | 55,031           | 35,073         | 49,065           | 60,685           | 35,078         | 46,648           | 34,649         | 42,569         | 57,533            | 31,258         | 46,648           | 36,547         | 32,817         |        |
| 33           | Narok                          | 23,007           | 17,316         | 30,875           | 17,568         | 28,157           | 29,905           | 16,518         | 20,416           | 17,763         | 22,422         | 25,886            | 15,967         | 20,416           | 17,941         | 15,708         |        |
| 34           | Kajiado                        | 19,447           | 15,964         | 18,690           | 14,749         | 20,275           | 18,430           | 16,379         | 17,075           | 14,401         | 18,819         | 18,179            | 13,620         | 17,075           | 10,465         | 13,358         |        |
| 35           | Kericho                        | 28,353           | 18,048         | 29,123           | 13,255         | 24,575           | 30,260           | 16,199         | 23,711           | 13,925         | 21,702         | 29,638            | 15,258         | 23,711           | 17,027         | 17,036         |        |
| 36           | Bomet                          | 27,136           | 15,888         | 24,875           | 15,183         | 20,958           | 28,717           | 17,008         | 18,405           | 14,542         | 18,603         | 29,545            | 15,778         | 18,405           | 16,504         | 15,982         |        |
| 37           | Kakamega                       | 62,483           | 51,897         | 70,331           | 25,373         | 58,583           | 59,022           | 45,909         | 57,284           | 30,753         | 42,870         | 58,715            | 39,673         | 57,284           | 38,116         | 39,884         |        |
| 38           | Vihiga                         | 17,932           | 16,509         | 25,730           | 12,568         | 20,973           | 19,481           | 14,298         | 18,147           | 13,662         | 16,564         | 18,104            | 12,907         | 18,147           | 15,284         | 16,454         |        |
| 39           | Bungoma                        | 53,513           | 44,867         | 58,973           | 24,128         | 47,862           | 50,665           | 36,390         | 39,804           | 30,464         | 40,056         | 50,029            | 31,405         | 39,804           | 30,876         | 38,427         |        |
| 40           | Busia                          | 25,726           | 26,352         | 29,779           | 14,859         | 30,334           | 30,074           | 22,736         | 23,080           | 15,223         | 27,650         | 32,577            | 22,261         | 23,080           | 16,903         | 24,782         |        |
| 41           | Siaya                          | 35,677           | 19,340         | 26,619           | 13,995         | 29,088           | 36,528           | 16,580         | 23,406           | 13,569         | 22,234         | 34,140            | 16,170         | 23,406           | 15,477         | 22,695         |        |
| 42           | Kisumu                         | 46,898           | 25,829         | 33,831           | 16,027         | 40,309           | 43,027           | 18,958         | 29,920           | 17,280         | 27,543         | 40,842            | 19,228         | 29,920           | 16,796         | 25,028         |        |
| 43           | Homa Bay                       | 43,788           | 19,088         | 28,831           | 13,621         | 40,035           | 43,094           | 16,785         | 24,588           | 15,080         | 25,853         | 38,296            | 15,160         | 24,588           | 16,244         | 22,756         |        |
| 44           | Migori                         | 37,348           | 25,138         | 32,875           | 16,220         | 35,512           | 34,270           | 19,800         | 21,213           | 17,363         | 25,106         | 31,805            | 17,955         | 21,213           | 18,560         | 21,773         |        |
| 45           | Kisii                          | 40,752           | 32,603         | 40,233           | 19,910         | 49,171           | 38,418           | 28,728         | 38,640           | 21,100         | 36,395         | 41,478            | 25,659         | 38,640           | 23,222         | 33,462         |        |
| 46           | Nyamira                        | 22,443           | 16,653         | 21,461           | 10,150         | 21,012           | 18,824           | 14,318         | 17,580           | 11,018         | 17,766         | 18,010            | 13,151         | 17,580           | 10,869         | 16,033         |        |
| 47           | Nairobi City                   | 71,316           | 63,671         | 71,190           | 48,036         | 68,016           | 69,203           | 57,602         | 64,920           | 49,779         | 65,339         | 69,095            | 51,674         | 64,920           | 51,386         | 60,012         |        |
| 48           | Foreign<br>Office <sup>1</sup> | 881              | 743            | 1,454            | 912            | 920              | 654              | 884            | 1,060            | 607            | 604            | 654               | 884            | 1,060            | 607            | 920            |        |
| <b>Total</b> |                                | <b>1,234,149</b> | <b>967,651</b> | <b>1,244,257</b> | <b>648,573</b> | <b>1,167,954</b> | <b>1,322,747</b> | <b>846,019</b> | <b>1,031,422</b> | <b>687,907</b> | <b>986,377</b> | <b>1,263,510</b>  | <b>763,603</b> | <b>1,031,422</b> | <b>727,912</b> | <b>846,573</b> |        |

Source: National Registration Bureau

NPR - Not Previously Registered

<sup>1</sup> These are produced in Nairobi for Kenyans abroad who applied through foreign office

## Refugees in Kenya

**17.29.** The number of registered refugees and asylum seekers in Kenya by age and sex from 2017 to 2021 is presented in Table 17.21. The population of refugees and asylum seekers grew by 7.0 per cent in 2021 to 540,068 with males constituting 51.2 per

cent. The number of children registered as refugees and asylum seekers increased by 6.6 per cent to 288,063 in 2021. Adult refugee population increased by 7.4 per cent to 252,005 in 2021.

**Table 17.21: Refugees and Asylum Seekers by Age and Sex, 2017-2021**

| Category                      | Number         |                |                |                |                |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|
|                               | 2017           | 2018           | 2019           | 2020           | 2021*          |
| <b>Children (&lt; 18 yrs)</b> |                |                |                |                |                |
| Male                          | 134,109        | 132,999        | 140,159        | 141,221        | 150,561        |
| Female                        | 138,994        | 122,178        | 127,749        | 129,024        | 137,502        |
| <b>Sub Total-children</b>     | <b>273,103</b> | <b>255,177</b> | <b>267,908</b> | <b>270,245</b> | <b>288,063</b> |
| <b>Adults (18+ yrs)</b>       |                |                |                |                |                |
| Male                          | 103,299        | 105,318        | 109,652        | 116,914        | 125,792        |
| Female                        | 112,013        | 111,229        | 112,187        | 117,695        | 126,213        |
| <b>Sub Total-adults</b>       | <b>215,312</b> | <b>216,547</b> | <b>221,839</b> | <b>234,609</b> | <b>252,005</b> |
| <b>Total (all ages)</b>       |                |                |                |                |                |
| Male                          | 237,408        | 238,317        | 249,811        | 258,135        | 276,353        |
| Female                        | 251,007        | 233,407        | 239,936        | 246,719        | 263,715        |
| <b>Total</b>                  | <b>488,415</b> | <b>471,724</b> | <b>489,747</b> | <b>504,854</b> | <b>540,068</b> |

Source: Department of Refugee Services

\*Provisional

**17.30.** Table 17.22 shows the distribution of registered refugees and asylum seekers by location and sex from 2017 to 2021. There was an increase in refugees and asylum seekers in Dadaab camp and Urban centres by 5.7 per cent and 7.1 per cent, respectively. Registered refugees in Kakuma camp reduced from 200,536 in 2020 to 173,735 in 2021.

**Table 17.22: Registered Refugees and Asylum Seekers by Location and Sex, 2017-2020**

| Location                             | County/<br>City                            | 2017           |                |                |                |                |                | 2018           |                |                |                |                |                | 2019           |                |                |      |        |       | 2020 |        |       |      |        |       | 2021* |    |    |  |  |  |
|--------------------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|--------|-------|------|--------|-------|------|--------|-------|-------|----|----|--|--|--|
|                                      |  | Male           | Female         | Total          | Male | Female | Total | Male | Female | Total | Male | Female | Total |       |    |    |  |  |  |
| Dadaab<br>Camp                       | Garissa<br>County                          | 120,639        | 117,513        | 238,152        | 101,857        | 106,776        | 208,633        | 106,194        | 110,957        | 217,151        | 109,478        | 113,942        | 223,420        | 116,108        | 120,146        | 236,254        |      |        |       |      |        |       |      |        |       |       |    |    |  |  |  |
| Kakuma<br>Camp                       | Turkana<br>County                          | 86,578         | 98,576         | 185,154        | 99,650         | 87,699         | 187,349        | 102,868        | 90,816         | 193,684        | 106,768        | 93,768         | 200,536        | 93,384         | 80,351         | 173,735        |      |        |       |      |        |       |      |        |       |       |    |    |  |  |  |
| Kalobeyei<br>Settlement <sup>1</sup> | Turkana<br>County                          | ..             | ..             | ..             | ..             | ..             | ..             | ..             | ..             | ..             | ..             | ..             | ..             | ..             | ..             | ..             | ..   | ..     | ..    | ..   | ..     | ..    | ..   | ..     | ..    | ..    | .. | .. |  |  |  |
| Urban<br>centres                     | Nairobi,<br>Mombasa,<br>Eldoret,<br>Nakuru | 33,317         | 31,792         | 65,109         | 36,810         | 38,932         | 75,742         | 40,749         | 38,163         | 78,912         | 41,889         | 39,009         | 80,898         | 44,777         | 41,830         | 86,607         |      |        |       |      |        |       |      |        |       |       |    |    |  |  |  |
|                                      | <b>Total</b>                               | <b>240,534</b> | <b>247,881</b> | <b>488,415</b> | <b>238,317</b> | <b>233,407</b> | <b>471,724</b> | <b>249,811</b> | <b>239,936</b> | <b>489,747</b> | <b>258,135</b> | <b>246,719</b> | <b>504,854</b> | <b>276,353</b> | <b>263,715</b> | <b>540,068</b> |      |        |       |      |        |       |      |        |       |       |    |    |  |  |  |

Source: Department of Refugee Services

\*Provisional

.. Data not available

<sup>1</sup>The settlement was opened in 2021

**17.31.** The distribution of registered refugees and asylum seekers by country of origin from 2017 to 2021 is shown in Table 17.23. Somalia remained the leading country of origin of refugees and asylum seekers at 53.4 per cent of all registered refugees in Kenya followed by South Sudan at 25.1 per cent. Refugees from Uganda recorded the highest increase of 17.5 per cent to 3,086 in 2021 while those from the Democratic Republic of Congo registered an increase of 6.7 per cent to 48,284 in the same period. The number of registered refugees and asylum seekers from Sudan reduced from 10,109 in 2020 to 9,979 in 2021.

**Table 17.23: Registered Refugees and Asylum Seekers by Country of Origin, 2017 – 2021**

| Country of Origin | 2017           | 2018           | 2019           | 2020           | Number<br>2021* |
|-------------------|----------------|----------------|----------------|----------------|-----------------|
| Somalia           | 284,346        | 257,318        | 264,265        | 272,490        | 288,655         |
| South Sudan       | 111,612        | 115,286        | 121,553        | 123,968        | 135,352         |
| DR Congo          | 35,710         | 41,305         | 43,576         | 45,266         | 48,284          |
| Ethiopia          | 27,880         | 27,701         | 28,416         | 29,204         | 30,367          |
| Burundi           | 12,828         | 13,322         | 15,098         | 16,520         | 19,153          |
| Sudan             | 10,008         | 10,106         | 9,926          | 10,109         | 9,979           |
| Uganda            | 2,482          | 2,412          | 2,499          | 2,626          | 3,086           |
| Eritrea           | 1,341          | 1,803          | 1,831          | 1,896          | 2,201           |
| Rwanda            | 1,642          | 1,740          | 1,788          | 1,871          | 1,989           |
| Other             | 566            | 731            | 795            | 904            | 1,002           |
| <b>Total</b>      | <b>488,415</b> | <b>471,724</b> | <b>489,747</b> | <b>504,854</b> | <b>540,068</b>  |

Source: Department of Refugee Services

\*Provisional

### Child Protection

**17.32.** Table 17.24 presents the number of reported child protection cases from 2017 to 2021 by sex of the child and case category. The total number of reported cases increased from 146,881 in 2020 to 191,766 in 2021. Cases of vulnerable children increased from 5,783 in 2020 to 7,227 in 2021, while

cases related to Violence Against Children (VAC) increased from 106,578 in 2020 to 147,352 in 2021. Similarly, cases of child custody increased by 8.6 per cent from 27,140 in 2020 to 29,465 in 2021. There was however a decrease in child trafficking cases by 21.7 per cent from 2,523 in 2020 to 1,976 in 2021.

**Table 17.24: Child Protection Cases Reported to the Directorate of Children Services by Sex, 2017 -2021**

| Case Categories <sup>1</sup>      | 2017          |               |               | 2018          |               |                | 2019          |               |                | 2020          |               |                | 2021*         |               |                |
|-----------------------------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
|                                   | Male          | Female        | Total         | Male          | Female        | Total          | Male          | Female        | Total          | Male          | Female        | Total          | Male          | Female        | Total          |
| Child Custody                     | 7,669         | 7,243         | 14,912        | 17,928        | 16,978        | 34,906         | 17,662        | 17,625        | 35,287         | 13,766        | 13,374        | 27,140         | 14,907        | 14,558        | 29,465         |
| Child in need of Registration     | 323           | 299           | 622           | 1,176         | 1,079         | 2,255          | 968           | 987           | 1,955          | 519           | 557           | 1,076          | 542           | 570           | 1,112          |
| Child trafficking                 | 440           | 368           | 808           | 827           | 899           | 1,726          | 1,133         | 1,196         | 2,329          | 1,255         | 1,268         | 2,523          | 980           | 996           | 1,976          |
| Children in conflict with the law | 1,276         | 642           | 1,918         | 3,339         | 1,781         | 5,120          | 3,835         | 2,195         | 6,030          | 2,082         | 1,389         | 3,471          | 1,530         | 3,025         | 4,555          |
| Displaced Children                | 169           | 126           | 295           | 142           | 135           | 277            | 162           | 186           | 348            | 166           | 144           | 310            | 35            | 44            | 79             |
| Violence against Children         | 17,408        | 18,369        | 35,777        | 44,224        | 46,287        | 90,511         | 59,474        | 60,600        | 120,074        | 52,016        | 54,562        | 106,578        | 74,131        | 73,221        | 147,352        |
| Vulnerable Children               | 1,791         | 1,468         | 3,259         | 4,212         | 3,742         | 7,954          | 4,842         | 4,222         | 9,064          | 2,939         | 2,844         | 5,783          | 3,643         | 3,584         | 7,227          |
| <b>Grand Total</b>                | <b>29,076</b> | <b>28,515</b> | <b>57,591</b> | <b>71,848</b> | <b>70,901</b> | <b>142,749</b> | <b>88,076</b> | <b>87,011</b> | <b>175,087</b> | <b>72,743</b> | <b>74,138</b> | <b>146,881</b> | <b>95,768</b> | <b>95,998</b> | <b>191,766</b> |

Source: State Department of Children Services

\* Provisional

<sup>1</sup> See Table 17.30

**17.33.** Table 17.25 presents various child protection interventions that were applied to dispose of cases reported to the Department of Children Services. Children who received alternative family care increased from 1,457 in 2020 to 2,623 in 2021 while cases of children who were referred

to other agencies and to family reconciliation and support increased by 8.5 per cent and 15.9 per cent respectively. On the other hand, cases handled through diversion and counselling decreased by 9.2 per cent from 3,739 in 2020 to 3,396 in 2021.

**Table 17.25: Child Protection Interventions by Sex, 2017 -2021**

| Intervention Categories <sup>1</sup> | 2017          |               |                | 2018          |               |                | 2019          |               |                | 2020          |               |                | 2021*         |               |                |
|--------------------------------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
|                                      | Male          | Female        | Total          |
| Alternative Family Care(AFC)         | 1,779         | 1,634         | 3,413          | 1,909         | 1,859         | 3,768          | 1,651         | 1,664         | 3,315          | 741           | 716           | 1,457          | 1,271         | 1,352         | 2,623          |
| Referral to other agencies           | 17,338        | 17,944        | 35,282         | 17,291        | 19,062        | 36,353         | 15,220        | 17,437        | 32,657         | 9,811         | 11,390        | 21,201         | 11,845        | 11,163        | 23,008         |
| Family Reconciliation and support    | 30,951        | 29,182        | 60,133         | 35,032        | 33,168        | 68,200         | 34,966        | 33,668        | 68,634         | 22,616        | 22,072        | 44,688         | 25,408        | 26,390        | 51,798         |
| Repatriation and reunification       | 1,378         | 1,212         | 2,590          | 1,716         | 1,586         | 3,302          | 1,753         | 1,621         | 3,374          | 1,110         | 1,055         | 2,165          | 1,088         | 1,089         | 2,177          |
| Legal Processes                      | 2,411         | 2,181         | 4,592          | 2,717         | 2,673         | 5,390          | 2,779         | 2,659         | 5,438          | 1,385         | 1,757         | 3,142          | 1,672         | 1,943         | 3,615          |
| Diversion and Counselling            | 1,849         | 1,881         | 3,730          | 2,253         | 2,320         | 4,573          | 2,309         | 2,212         | 4,521          | 1,691         | 2,048         | 3,739          | 1,752         | 1,644         | 3,396          |
| Pending cases <sup>2</sup>           | 4,637         | 4,321         | 8,958          | 10,930        | 10,234        | 21,164         | 29,398        | 27,750        | 57,148         | 35,392        | 35,090        | 70,482         | 52,441        | 52,708        | 105,149        |
| <b>Grand Total</b>                   | <b>60,343</b> | <b>58,355</b> | <b>118,698</b> | <b>71,848</b> | <b>70,902</b> | <b>142,750</b> | <b>88,076</b> | <b>87,011</b> | <b>175,087</b> | <b>72,746</b> | <b>74,128</b> | <b>146,874</b> | <b>95,477</b> | <b>96,289</b> | <b>191,766</b> |

Source: State Department for Children Services

\* Provisional

<sup>1</sup> See Table 17.31<sup>2</sup> Pending cases represent those that are yet to be intervened and closed

Note: Majority of the cases received more than 1 intervention and therefore interventions do not necessarily equal to number of cases

### Persons with Disabilities

**17.34.** The number of Persons with Disabilities (PWDs) registered by type of disability and sex for the period 2017/18 to 2020/21 is presented in Table 17.26. The number of registered Persons with Disabilities increased from 34,770 in 2019/20 to 36,846 in 2020/21. There was an increase in the registration of persons with visual, hearing and physical disabilities by 22.8, 3.5 and 7.0 per cent, respectively in the period under review. The

registered number of persons with mental disabilities declined by 4.4 per cent to 5,866 during the same period.

**Table 17.26: Registration of Persons with Disability by Type of Disability and Sex, 2017/18-2020/21**

| Type of Disability                 | Number       |              |              |              |              |              |              |              |              |              |              |              |
|------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                                    | 2017/18      |              |              | 2018/19      |              |              | 2019/20      |              |              | 2020/21*     |              |              |
|                                    | Male         | Female       | Total        |
| <b>Persons with Any Disability</b> | 23,756       | 14,507       | 38,263       | 27,782       | 17,629       | 45,411       | 21,033       | 13,737       | 34,770       | 23,104       | 13,742       | 36,846       |
| <b>Visual</b>                      |              |              |              |              |              |              |              |              |              |              |              |              |
| Blind                              | 509          | 287          | 796          | 511          | 261          | 772          | 285          | 186          | 471          | 410          | 259          | 669          |
| Other visual disability            | 2,542        | 1,563        | 4,105        | 2,966        | 1,838        | 4,804        | 1,790        | 1,083        | 2,873        | 2,194        | 1,245        | 3,439        |
| <b>Sub total</b>                   | <b>3,051</b> | <b>1,850</b> | <b>4,901</b> | <b>3,477</b> | <b>2,099</b> | <b>5,576</b> | <b>2,075</b> | <b>1,269</b> | <b>3,344</b> | <b>2,604</b> | <b>1,504</b> | <b>4,108</b> |
| <b>Hearing</b>                     |              |              |              |              |              |              |              |              |              |              |              |              |
| Deaf-able to talk                  | 171          | 92           | 263          | 176          | 120          | 296          | 131          | 99           | 230          | 166          | 125          | 291          |
| Deaf-Uses sign language            | 1,173        | 772          | 1,945        | 1,284        | 952          | 2,236        | 925          | 734          | 1,659        | 818          | 593          | 1,411        |
| Other Hearing disability           | 1,162        | 841          | 2,003        | 1,387        | 1,003        | 2,390        | 850          | 677          | 1,527        | 1,086        | 747          | 1,833        |
| <b>Sub total</b>                   | <b>2,506</b> | <b>1,705</b> | <b>4,211</b> | <b>2,847</b> | <b>2,075</b> | <b>4,922</b> | <b>1,906</b> | <b>1,510</b> | <b>3,416</b> | <b>2,070</b> | <b>1,465</b> | <b>3,535</b> |
| <b>Physical</b>                    | 13,375       | 7,898        | 21,273       | 15,973       | 9,731        | 25,704       | 11,304       | 6,929        | 18,233       | 12,503       | 7,011        | 19,514       |
| <b>Mental</b>                      | 4,302        | 2,786        | 7,088        | 4,889        | 3,315        | 8,204        | 3,597        | 2,536        | 6,133        | 3,515        | 2,351        | 5,866        |
| <b>All Other disabilities</b>      |              |              |              |              |              |              |              |              |              |              |              |              |
| Albinism                           | 226          | 127          | 353          | 236          | 181          | 417          | 104          | 91           | 195          | 134          | 96           | 230          |
| Autism                             | 369          | 103          | 472          | 436          | 151          | 587          | 453          | 184          | 637          | 417          | 121          | 538          |
| Cerebral palsy                     | 1,368        | 1,291        | 2,659        | 1,621        | 1,544        | 3,165        | 727          | 520          | 1,247        | 825          | 484          | 1,309        |
| Epilepsy                           | 1,136        | 803          | 1,939        | 1,351        | 965          | 2,316        | 867          | 698          | 1,565        | 1,036        | 710          | 1,746        |
| <b>Sub total</b>                   | <b>3,099</b> | <b>2,324</b> | <b>5,423</b> | <b>3,644</b> | <b>2,841</b> | <b>6,485</b> | <b>2,151</b> | <b>1,493</b> | <b>3,644</b> | <b>2,412</b> | <b>1,411</b> | <b>3,823</b> |

Source: National Council for Persons with Disabilities

\*Provisional

**17.35.** The total number of registered PWDs by sex and type of disability are presented in Table 17.27. The total number of registered persons with disabilities increased to 552,019 as at 30<sup>th</sup> June 2021 from 542,152 as at 30<sup>th</sup> June 2020. Persons with

physical disabilities accounted for the majority of all registered persons with disabilities at 54.5 per cent followed by persons with mental disabilities at 17.4 per cent.

**Table 17.27: Registered Persons with Disabilities by Type of Disability and Sex as at 30<sup>th</sup> June 2017-2021**

| Type of Disability                 | As at 30 <sup>th</sup> June 2018 |               |               | As at 30 <sup>th</sup> June 2019 |               |               | As at 30 <sup>th</sup> June 2020 |               |               | As at 30 <sup>th</sup> June 2021* |               |               |
|------------------------------------|----------------------------------|---------------|---------------|----------------------------------|---------------|---------------|----------------------------------|---------------|---------------|-----------------------------------|---------------|---------------|
|                                    | Male                             | Female        | Total         | Male                             | Female        | Total         | Male                             | Female        | Total         | Male                              | Female        | Total         |
| <b>Persons with Any Disability</b> | 233,582                          | 183,035       | 416,617       | 261,364                          | 200,664       | 462,028       | 306,684                          | 235,489       | 542,152       | 329,788                           | 249,281       | 552,019       |
| <b>Visual Disabilities</b>         |                                  |               |               |                                  |               |               |                                  |               |               |                                   |               |               |
| Blind                              | 7,402                            | 5,823         | 13,225        | 7,913                            | 6,084         | 13,997        | 8,198                            | 6,270         | 14,468        | 8,608                             | 6,529         | 15,137        |
| Other visual disability            | 19,954                           | 16,283        | 36,237        | 22,920                           | 18,121        | 41,041        | 24,710                           | 19,204        | 43,914        | 26,904                            | 20,449        | 47,353        |
| <b>Sub total</b>                   | <b>27,356</b>                    | <b>22,106</b> | <b>49,462</b> | <b>30,833</b>                    | <b>24,205</b> | <b>55,038</b> | <b>32,908</b>                    | <b>25,474</b> | <b>58,382</b> | <b>35,512</b>                     | <b>27,028</b> | <b>62,490</b> |
| <b>Hearing Disabilities</b>        |                                  |               |               |                                  |               |               |                                  |               |               |                                   |               |               |
| Deaf-able to talk                  | 4,801                            | 3,946         | 8,747         | 4,977                            | 4,066         | 9,043         | 5,108                            | 4,165         | 9,273         | 5,274                             | 4,290         | 9,564         |
| Deaf-Uses sign language            | 13,185                           | 10,452        | 23,637        | 14,469                           | 11,404        | 25,873        | 15,394                           | 12,872        | 28,266        | 16,212                            | 13,465        | 29,677        |
| Other Hearing disabilities         | 11,109                           | 9,489         | 20,598        | 12,496                           | 10,492        | 22,988        | 13,346                           | 11,169        | 24,515        | 14,432                            | 11,916        | 26,348        |
| <b>Sub total</b>                   | <b>29,095</b>                    | <b>23,887</b> | <b>52,982</b> | <b>31,942</b>                    | <b>25,962</b> | <b>57,904</b> | <b>33,848</b>                    | <b>28,206</b> | <b>62,054</b> | <b>35,918</b>                     | <b>29,671</b> | <b>65,589</b> |
| <b>Physical</b>                    |                                  |               |               |                                  |               |               |                                  |               |               |                                   |               |               |
| <b>Mental</b>                      |                                  |               |               |                                  |               |               |                                  |               |               |                                   |               |               |
| <b>All Other disabilities</b>      |                                  |               |               |                                  |               |               |                                  |               |               |                                   |               |               |
| Albinism                           | 3,072                            | 2,855         | 5,927         | 3,308                            | 3,036         | 6,344         | 3,412                            | 3,127         | 6,538         | 3,546                             | 3,223         | 6,769         |
| Autism                             | 1,606                            | 711           | 2,317         | 2,042                            | 862           | 2,904         | 2,477                            | 1,046         | 3,523         | 2,894                             | 1,167         | 4,061         |
| Cerebral palsy                     | 5,924                            | 5,611         | 11,535        | 7,545                            | 7,155         | 14,700        | 8,272                            | 7,675         | 15,947        | 9,097                             | 8,159         | 17,256        |
| Epilepsy                           | 10,900                           | 9,067         | 19,967        | 12,251                           | 10,032        | 22,283        | 13,118                           | 10,730        | 23,848        | 14,154                            | 11,440        | 25,594        |
| <b>Sub total</b>                   | <b>21,502</b>                    | <b>18,244</b> | <b>39,746</b> | <b>25,146</b>                    | <b>21,085</b> | <b>46,231</b> | <b>27,279</b>                    | <b>22,578</b> | <b>49,856</b> | <b>29,691</b>                     | <b>23,989</b> | <b>53,680</b> |

Source : National Council for Persons with Disabilities

\*Provisional

**Table 17.28: Classification of Offences by the National Police Service**

| CODE | OFFENCES                       | CATEGORY OF OFFENCES  | CODE | OFFENCES                           | CATEGORY OF OFFENCES  |
|------|--------------------------------|---|------|------------------------------------|---|
| 1    | HOMICIDE                       | a) Murder<br>b) Manslaughter<br>c) Infanticide<br>d) Procuring Abortion<br>e) Concealing Birth<br>f) Suicide<br>g) Causing Death by dangerous Driving | 8    | THEFT BY SERVANT                   | a) Stealing by Directors<br>b) Stealing by employee/servant   |
|      |                                |   | 9    | VEHICLE AND OTHER THEFTS           | a) Theft of M/V<br>b) Theft from M/V<br>c) Theft of M/V part<br>d) Theft of M/Cycle   |
|      |                                |   | 10   | DANGEROUS DRUGS                    | a) Possession<br>b) Handling<br>c) Trafficking<br>d) Cultivating<br>e) Usage  |
| 2    | OFFENCES AGAINST MORALITY      | a) Rape<br>b) Defilement<br>c) Incest<br>d) Unnatural Offences(Sodomy)<br>e) Bestiality<br>f) Indecent assault<br>g) Abduction<br>h) Bigamy           | 11   | TRAFFIC OFFENCES                   | a) Taking and Driving Motor Vehicle without Authority<br>b) Driving under influence of alcohol  |
|      |                                |   | 12   | CRIMINAL DAMAGE                    | a) Malicious Damage<br>b) Arson<br>c) Negligent Acts  |
| 3    | OTHER OFFENCES AGAINST PERSONS | a) Assault<br>b) Creating Disturbance<br>c) Affray  | 13   | ECONOMIC CRIMES                    | a) Obtaining by False Pretence<br>b) Currency Forgery<br>c) Other Fraud/Forgery Offences  |
| 4    | ROBBERY                        | a) Robbery<br>b) Robbery with Violence<br>c) Carjacking<br>d) Robbed of M/V<br>e) Cattle Rustling   | 14   | CORRUPTION                         | a) Soliciting for Bribe<br>b) Accepting Bribe<br>c) Accept Free Gifts<br>d) Demanding by false pretence<br>e) Other Corruption Offences |
| 5    | BREAKING                       | a) House Breaking<br>b) Burglary<br>c) Other Breakings  | 15   | OFFENCES INVOLVING POLICE OFFICERS | a) Soliciting for Bribe<br>b) Accepting Bribe<br>c) Accept Free Gifts<br>d) Demanding by false pretence<br>e) Other Criminal Offences   |
| 6    | THEFT OF STOCK                 |   |      |                                    |   |
| 7    | STEALING                       | a) Handling Stolen Property<br>b) Stealing from Person<br>c) Stealing by Tenants/lodgers<br>d) Stealing from a building<br>e) General Stealing        | 16   | OFFENCES INVOLVING TOURIST         | a) Bag Snatching<br>b) Other offences Against Tourists<br>c) Other Offences involving Tourist   |

**Table 17.29: Description of Offences**

| <b>Order and administration of lawful authority</b> | <b>Treason, incitement to mutiny, aiding civil disobedience</b>                                     |
|---|---|
| Injurious to public                                 | Stealing government property, stealing by person in public service, stealing from state corporation |
| Against person                                      | Assault, grievous harm, murder etc  |
| Related to property                                 | Theft, robbery with violence, arson   |
| Attempts and conspiracies                           | Attempts to commit offences, neglect to prevent offence, conspiracies to commit offences            |
| Employment Act                                      | Employment of aliens without permit   |
| Drugs related                                       | Possession, manufacture, trafficking etc of any quantity  |
| Various cases                                       | By-laws under the Local Government Act, Traffic Act, Tax Act etc                                    |

**Table 17.30. Definition of Child Protection Cases**

| No. | Case Category                       | Definition  |
|-----|-------------------------------------|---|
| 1   | Abandonment                         | A child deserted willingly by a parent, guardian or the person who has actual legal custody without any regard for the child's welfare (The Children Act 2001)  |
| 2   | Abduction                           | Any child who by force, inducement, or by any deceitful means is moved from a place of safety to another where his/her welfare is at risk. Abduction or kidnapping by strangers (from outside the family, natural or legal guardians) who steal a child for criminal purposes which may include extortion ,illegal adoption, human trafficking& murder  |
| 3   | Custody                             | Custody in respect to a child, means much of the parental rights and duties as relate to the possession of the child (The Children Act 2001)  |
| 4   | Physical abuse/<br>Violence         | Deliberate trauma, physical injury caused by punching, beating, kicking, burning, biting or otherwise harming a child which results in injuries such as bruises, broken bones, burns, cuts etc. (Handbook for Child Protection Practice Report, 2000)   |
| 5   | Birth Registration                  | Every child shall have a right to a name and nationality and where a child is deprived of his/her identity the Government shall provide appropriate assistance and protection, with a view to establishing his/her identity.(The Children Act 2001; Births and Deaths Registration, The Constitution of Kenya,2010)   |
| 6   | Children on the<br>streets          | Street Living Children: children who ran away from their families and live alone on the streets. Street Working Children: children who spend most of their time on the streets, fending for themselves, but returning home on a regular basis. Children from Street Families: children who live on the streets with their families (The State of the World's Children Report, 2006)   |
| 7   | Child labor                         | Any situation where a child provides labor in exchange for payment and includes— a) when a child provides labour as an assistant to another person and his labour is deemed to be the labour of that other person for the purposes of payment; (b)where a child's labour is used for gain by any individual or institution whether or not the child benefits directly or indirectly; and c) where there is in existence a contract for services where the party providing the services is a child whether the person using the services does so directly or by an agent. (The Children Act 2001) using the services does so directly or by an agent. (The Children Act 2001)  |
| 8   | Child of<br>imprisoned<br>parent(s) | A child whose parent(s) are imprisoned (whether a child is either in prison with the parent (s) or in the community. (Children of Imprisoned Parents Report, 2011)  |
| 9   | Sexual<br>exploitation and<br>abuse | It is the involvement of a child in acts of sexual exploitation and abuse through prostitution, inducement or coercion to engage in any sexual activity, and exposure to obscene materials (pornography). (The Children Act 2001, Sexual Offences Act, For purposes of this document it excludes defilement, sexual assault and sodomy.   |
| 10  | Parental child<br>abduction         | Removal of a minor from the custody of the child's natural parent or guardians without authorization or knowledge of the other parent or guardian. This is when a family relative (usually parents) has unauthorized custody of a child without parental agreement and contrary to family law ruling, which largely removes the child from care, access and contact of the other parent and family side. Occurring around parental separation or divorce, such parental or familial child abduction may include parental alienation, a form of child abuse seeking to disconnect a child from targeted parent and denigrated side of family. (Hague Convention of Civil Aspects of International Child Abduction, 1980) |
| 11  | Trafficked child                    | A recruited, transported, transferred, harbored or received child by means of the threat or use of force or other forms of coercion, of abduction, of fraud, or deception. (NPA for Combating Human Trafficking 2013-2017 )   |

**Table 17.30. Definition of Child Protection Cases (*Continued*)**

| No. | Case Category                        | Definition   |
|-----|--------------------------------------|--|
| 12  | Child affected by HIV/AIDS           | Refers to a child who is suffering with HIV /AIDS or whose parent(s)/ caregivers/ are suffering from HIV/AIDS. (Operational- MOH)  |
| 13  | Child offender                       | A minor who commits an offence and is found guilty by a court of law (The Children Act 2001)   |
| 14  | Disputed paternity                   | Disagreement between two parents/ guardians on the biological relationship between a child and that of the father (The Children Act 2001)  |
| 15  | Defilement                           | Committing an act which causes penetration with a child (Sexual Offences Act, 2006)  |
| 16  | Child living with disability         | A child with a physical, mental or any other impairment who is significantly restricted in his or her ability to perform daily living activities either "continuously or periodically for extended periods" and, as a result of these restrictions, requires assistance with daily living activities. (Promoting the Rights of Children with Disabilities Report, 2007)  |
| 17  | Drug and substance abuse             | A habitual patterned use of a drug in which the user consumes the substance in amounts or with methods which are harmful to themselves. (The Alcohol Drinks Control Act (2010))  |
| 18  | Child pregnancy                      | Refers to a girl below the age of 18 conceiving and (having the embryo developing in her womb) and carrying the pregnancy. (The Children Act, 2001)  |
| 19  | Child marriage                       | A union/cohabitation/any arrangement made for a man and a woman, either or both of whom have not attained the age of eighteen years, whether in a monogamous or polygamous situation. (The Marriage Act, 2014)   |
| 20  | Emotional abuse                      | An ongoing emotional maltreatment or emotional neglect of a child also called psychological abuse and which seriously damages a child's emotional health and development. It can involve many forms including threats, humiliation and exposure to domestic violence; (Hidden in plain sight: A statistical analysis of violence against children Report, UNICEF 2014.)  |
| 21  | Harmful cultural practice            | Social norms, practices, traditions that are in violation of natural justice and written law. This refers to all behavior, attitudes and or practices which negatively affect the fundamental rights of children, such as their right to life, health, dignity, education, and physical integrity. These include Taboo Children (United Nations Convention on the Rights of Children (UNCRC); The Convention on the Elimination of all forms of Discrimination against Women (CEDAW); African Charter on the Rights and Welfare of the Child (ACRWC); (The Children Act, 2001) |
| 22  | Female Genital Mutilation            | This is a harmful cultural practices, a procedure that intentionally involves partial or total removal of the external female genitalia, or other injury to the female genital organ for non-medical reasons. (Prohibition of Female Genital Mutilation Act, 2011); The Children Act, 2001)  |
| 23  | Incest                               | An indecent act which causes penetration, committed by any male/female with a male/female child who is to his/her knowledge his/her daughter/son, or grandmother/grandfather. (Sexual Offences Act, 2006)  |
| 24  | Inheritance                          | An action of passing ownership property or money upon one's death to his/her children (heir) who is entitled to succeed as guided by a will or state law. (The Law of Succession Act, 1972; Trustees (Perpetual succession Act, 1987))   |
| 25  | Internally displaced child           | A child who is forced to flee his or her home but who remains within his/her country's borders. (Prevention, Protection & Assistance to Internally Displaced Persons and Affected Communities, 2012; Great Lakes Protocol on the Protection and Assistance to IDPs,2006; UN guiding Principles on Internal )   |
| 26  | Missing (Lost/Lost & found) children | This is a child whose whereabouts are unknown to their parents, guardians or legal custodian. (The Children Act, 2001)This child can be reported as missing child or a child who has been found but cannot trace his/her home.   |

**Table 17.30. Definition of Child Protection Cases (*Continued*)**

| No. | Case Category               | Definition   |
|-----|-----------------------------|--|
| 27  | Neglect                     | It refers to failure a person having parental responsibility, custody, charge or care of a child to provide adequate food, clothing, education, immunization, shelter and medical care in a manner likely to cause injury to his health and development. (The Children Act, 2001)  |
| 28  | Online Child Abuse          | Refers to children exposed to the production, distribution and consumption of child sexual abuse material; victimize children through live streaming their sexual abuse; and groom children online for sexual exploitation   |
| 29  | Orphaned                    | An orphan is a child whose mother or father or both have died. A vulnerable is a child below 18yrs currently at high risk of lacking adequate care and protection. (UNCRC, The Children Act, 2001)   |
| 30  | Refugee child               | A child who has a well-founded fear of being persecuted for one of the reasons of being a refugee.(Refugee Act, 2006; The Children Act, 2001)  |
| 31  | Sexual assault              | Refers to unlawful (a) penetration of the genital organs of a child with -any part of the body of another person or of that person; or an object manipulated by another or that person except where such penetration is carried out for proper and professional hygienic or medical purposes; (b) a person's manipulation any part of his or her body or the body of another person that causes penetration of the genital organ into or by any part of the other child's body.(Sexual Offences Act, 2006) |
| 32  | Child sodomy                | Refers to having a carnal knowledge of any child against the order of nature.(Sexual Offences Act, 2006)   |
| 33  | Child truancy               | Refers to a child who stays away from school without a good reason, or is falling into bad associations. (Sexual Offences Act, 2006)   |
| 34  | Child delinquency           | Refers to a child of a certain age, who has violated a criminal law or engaged in a disobedient, indecent or immoral conduct. A delinquent child is usually in need of rehabilitation. (The Children Act, 2001)  |
| 35  | Unlawful confinement        | Unjustly holding of a child in an institution, residence or other against their will through use of threats, duress, force or deception a) beyond the legally provided duration, or b) against the best interest of the child. (The Children Act, 2001)  |
| 36  | Child Offer                 | Refers to a child that is voluntarily offered for adoption or care by a parent or relative for reasons where the parent is unable to offer the child basic protection and services.  |
| 37  | Child out of School         | A child within the school going age who for any reasons is unable to access education services.  |
| 38  | Sick Child(Chronic Illness) | A child suffering from chronic disease and in need of support.   |
| 39  | Child headed household      | This is a family in which a minor (child or adolescent) has become the head of the household and takes care of all other members are under 18 years. (The Children Act, 2001)  |
| 40  | Child radicalization        | This is a process by which a child is indoctrinated to adopt increasingly extreme social or religious views, ideas, beliefs, practices, attitude and aspirations that reject or undermine contemporary ideas and expression of freedom of choice which may have negative impact on the child's growth and development. (The International Centre for Counter-Terrorism (ICCT) – The Hague, 2013)   |

**Table 17.31. Definition of Child Protection Interventions**

| No. | Mode of Intervention               | Definition   |
|-----|------------------------------------|--|
| 1   | Adoption                           | The legal transfer of parental rights and responsibility for a child which is permanent (The Adoption Regulations, 2006, Regulations for Charitable Children Institutions Act, 2005); National AFC Standards, 2015; The children Act, 2001)  |
| 2   | Committed to CCIs                  | Committing or placement to a home or institution which has been established by a person, corporate or unincorporated, a religious organization or a non-governmental organization and has been granted approval by the National Council of children's Services (NCCS) to manage a program for the care, protection, rehabilitation or control of children. (The Children Act, 2001)  |
| 3   | Committed to statutory Institution | Committing or placement to an institution which has been established by the government to safeguard and advance the welfare of children and their families. They provide care, protection, rehabilitation or control of children. (The Children Act, 2001)   |
| 4   | Professional counseling            | A process of assisting and guiding a child by a trained person on a professional basis to resolve either personal, social or psychological problem and difficulties (The Children Act, 2001)   |
| 5   | Family support                     | Refers to an integrated network of government, community-based resources and services that promotes and protects the health, well-being, rights and development of all children and pays special attention to those who are vulnerable or at risk, strengthening their families and parenting practices. (NGLI- Investing in Families: Supporting Parents to Improve Outcomes for Children Report, 2013)   |
| 6   | Foster care                        | The placement of a child with a person who is not the child's parent, relative or guardian and who is willing to undertake the care and maintenance of that child. (The Children Act, 2001)  |
| 7   | Guardianship                       | Refers to the legal relationship created when a person or institution appointment by will or deed by a parent of the child or by an order of the court to assume parental responsibility for the child upon the death of the parent of the child either alone or in conjunction with the surviving parent of the child or the father of a child born out of wedlock who has acquired parental responsibility for the child in accordance with the provisions of the Children Act. (The Children Act, 2001) |
| 8   | Joint Parental Agreement (JPA)     | Refers to an agreement entered into by both parents, guardians and any person who assumes parental responsibility; stipulating parental responsibilities of each party towards a child. This JPA must be in the format provided in the Children Act. (The Children Act, 2001)  |
| 9   | Judicial orders                    | The orders that are issued by the court in any proceedings concerning the well-being and protection of a child (e.g. Exclusion Order) (The Children Act, 2001)   |
| 10  | Legal aid                          | Refers to the court granting provision of legal representation to a child who is brought before a court and is unrepresented to access the judicial system.(The Children Act, 2001)  |
| 11  | Child maintenance                  | Refers to provision of basic necessities (food, clothing, a home, education, Medical Care) and welfare of children (The Children Act, 2001)  |
| 12  | Parents bonded                     | Refers to bonding of parents by court to exercise proper care and control of children under their care (Operational)   |
| 13  | Placement in school                | Enrolment of children in appropriate educational facilities (Operational)  |
| 14  | Reunited                           | Refers to bringing back together a child with the family or guardian or other persons who assumes parental responsibility in respect to a child after they have been separated for some time (The Regulations for Charitable Children Institutions Act, 2005); National AFC Standards, 2015; The children Act, 2001)   |

**Table 17.31. Definition of Child Protection Interventions (Continued)**

| No. | Mode of Intervention                             | Definition   |
|-----|--|--|
| 15  | Reconciliation                                   | Refers to mediating of family disputes involving children and their parents, guardians or other persons who have parental responsibility in respect of the children, and promote family reconciliation; accept a decision or action set as condition of reconciliation. (The Children Act, 2001)   |
| 16  | Referred to Court/Khadhi                         | Passing a child's matter/case to the Court/Khadhi, for more expertise or authority for further intervention in the best interest of the child. (The Children Act, 2001)  |
| 17  | Referred to other Government agencies            | Passing a child's matter/case to Ministry of Education, Ministry of Health, Police, Ministry of Interior & Internal coordination, Probation, Other Sub-county children officers, which has more expertise or authority for further intervention in the best interest of the child. (The Children Act, 2001)  |
| 18  | Referred to other non-state agencies             | Passing a child's matter/case to other agencies- INGOs, NGOs, FBOs, CBOs, who have more expertise or authority for further intervention in the best interest of the child. (The Children Act, 2001)  |
| 19  | Reintegrated                                     | Is the gradual, result oriented and community supervised process of helping a child adjust, settle and adopt the life in his/her family system. Child reintegration is the planned, structured and result oriented rehabilitation program undertaken by the institution to ensure successful placement and reunification of a child into their family and community or to another family based on alternative care placements. (Regulations for Charitable Children Institutions Act, 2005; Alternative Family Care Standards, 2015) |
| 20  | Repatriated                                      | The process of returning a lost, unaccompanied or run-away child back to the place of origin after thorough, in-depth analysis of conditions surrounding the family or home or place (Regulations for Charitable Children Institutions Act, 2005; Alternative Family Care Standards, 2015)   |
| 21  | Release to parent(s)                             | Refers to taking a child to a place of safety by an authorized officer without reference to the court, the parent or guardian or any person who has parental responsibility in respect of the child may applies for the release of the child from the place of safety into his care. (The Children Act, 2001)  |
| 22  | Rescue and placement                             | Refers to removal of a child from an abusive environment (place/family) and the place of safety into his care. (The Children Act, 2001) interest of the child. (The Children Act, 2001)  |
| 23  | Supervision with Court Orders                    | Overseeing of a child's rehabilitation by a Children officer or any other authorized officer as ordered by a court. (The Children Act, 2001)   |
| 24  | Supervision Without Court Orders                 | Overseeing of a child's rehabilitation by a Children Officer or any other authorized officer in the best interest of the child when the child has not passed through the juvenile justice system). (The Children Act, 2001)– done to either child or parent  |
| 25  | Written promise                                  | Refers to a commitment by a child to adhere to good morals/behavior and is supervised by the Children Officer or any authorized officer in the best interest of the child (Operational)  |
| 26  | Release on revocation of an order/ Early Release | A child released from a holding center before the expiry of an earlier set period, triggered by another order revoking the earlier order (The Children Act, 2001)  |
| 27  | Release on expiry of an order                    | A child released at the end of holding or committal period (The Children Act, 2001)  |
| 28  | Release on license                               | A child released temporarily from an institution (on license) (The Children Act, 2001)   |

# Social and Economic Inclusion

## Overview

Kenya aims to have an inclusive society by empowering and promoting socio-economic and political inclusion of everyone irrespective of sex, age, disability status, race, ethnicity, religion, economic status, geographical area among others. Availability of social protection schemes, catalytic funds, gender mainstreaming and affirmative actions are some of the measures that the Government has put in place to address inequalities in the country. Additionally, the Government has ensured responsive, inclusive, participatory, and representative decision making at all levels, in efforts to promote the rule of law at national and international levels.

18.2. National Government expenditure on social services is expected to decrease by 23.2 per cent from KSh 64.3 billion in 2020/21 to KSh 49.4 billion in 2021/22. Similarly, the total recurrent and development expenditure on social services is expected to decrease by 21.7 per cent and 30.2 per cent to KSh 41.8 billion and KSh 7.7 billion, respectively, in 2021/22.

18.3. Loan disbursements by the Women Enterprise Fund (WEF) and Uwezo Fund are expected to decrease by 4.6 per cent and 5.4 per cent to KSh 3.1 billion and KSh 0.6 billion, respectively, in 2021/22. However, the amount disbursed by the Youth Enterprise Development Fund (YEDF) is expected to increase by 25.6 per cent from KSh 581 million in 2020/21 to KSh 730 million in 2021/22. The total amount of grants disbursed by the National Government Affirmative Action Fund (NGAAF) is expected to increase by 19.4 per cent from KSh 879.9 million in 2020/21 to KSh 1.1 billion in 2021/22.

18.4. The total amount of public procurement reserved for youth, women and Persons With Disabilities (PWDs) groups is expected to increase by 25.0 per cent from KSh 65.3 billion in 2020/21 to KSh 81.6 billion in 2021/22. During the same period, the value of tenders awarded to youth is expected to grow by 11.0 per cent to KSh 16.8 billion while that to women is expected to increase by 27.5 per cent to KSh 24.4 billion. The value of tenders awarded to PWDs is expected to increase by 30.8 per cent to KSh 3.4 billion in 2021/22.

**18.5.** The total number of servicewomen and servicemen recruited by the National Youth Service (NYS) reduced by 6.8 per cent from 8,046 in 2020 to 7,500 in 2021. The number of recruited servicemen decreased by 2.7 per cent to 5,595 while the number of servicewomen recruited decreased by 17.0 per cent to 1,905 in 2021.

**18.6.** In most key decision-making positions in the public sector, the two-third constitutional threshold on gender was not met. Positions in the executive where this was achieved was by Cabinet Secretaries (33.3%), Chief Executive Officers (CEOs) of Constitutional Commissions (46.7%), Assistant County Commissioners (34.7%) and County Executive Committee Members (33.3%). In the Judiciary, women judges and magistrates comprised more than 40.0 per cent of all judicial officers while in the Legislature, only Members of County Assembly (MCAs) had women comprising more than one-third of the positions at 33.6 per cent in the review period.

**18.7.** The amount of funds disbursed through Cash Transfers for Orphans and Vulnerable Children Programme (CT-OVC) is expected to increase by 12.3 per cent to KSh 7.9 billion in 2021/22. Disbursements under the Cash Transfers for Persons with Severe Disabilities Programme is expected to increase from KSh 814.8 million in 2020/21 to KSh 1.2 billion in 2021/22. However, disbursement of funds to Older Persons is expected to decrease by 9.0 per cent to KSh 16.7 billion in 2021/22. Disbursement of funds for the Hunger and Safety Net Programme is expected to increase by 28.8 per cent to KSh 4.4 billion in 2021/22. As a result, the number of beneficiary households under this Programme is expected to increase by more than 80,000 households in 2021/22.

**18.8.** The number of newly registered employers under the National Social Security Fund (NSSF) decreased from 82,261 in 2020 to 21,680 in 2021, largely attributable to office access restrictions due to COVID-19 and the backlog of pending registration in 2019. Similarly, the number of newly registered employees went down by 19.1 per cent to 142,495 in 2021. Annual contributions to NSSF and benefits paid out decreased by 3.9 per cent and 23.0 per

cent to KSh 14.2 billion and KSh 3.4 billion, respectively, in 2021. Total contributions towards pension schemes increased by 13.8 per cent to KSh 123.1 billion in 2021. Similarly, benefits paid out increased by 13.1 per cent from KSh 89.2 billion in 2020 to KSh 100.9 billion in 2021. There was a slight increase in the number of members in Pension Schemes from 1,010,161 in 2020 to 1,018,814 in 2021.

### National Government Expenditure on Social Services

**18.9.** National Government expenditure on social services for the period 2017/18 to 2021/22 is shown in Table 18.1. Total expenditure on social services is expected to decline by 23.2 per cent from KSh 64.3 billion in 2020/21 to KSh 49.4 billion in 2021/22. Recurrent expenditure is expected to decrease by 21.7 per cent to KSh 41.8 billion while development expenditure is expected to decrease by 30.2 per cent to KSh 7.7 billion in 2021/22.

**18.10.** Recurrent expenditure for the State Departments for Labour, Social Protection, Public Service, Youth and Gender are expected to decrease by 25.0, 22.6, 19.8, 17.5 and 21.0 per cent to KSh 2.1 billion, KSh 24.0 billion, KSh 13.8 billion, KSh 1.1 billion and KSh 0.8 billion, respectively, in 2021/22.

**18.11.** Development expenditure for the State Departments for Labour, Social Protection, Public Service and Gender are expected to decrease by 47.6, 39.5, 77.4 and 43.5 per cent to KSh 1.3 billion, KSh 1.5 billion, KSh 0.3 billion and KSh 1.3 billion, respectively, in 2021/22. However, development expenditure for the State Department for Youth is expected to increase by 33.3 per cent, from KSh 2.4 billion in 2020/21 to KSh 3.2 billion in 2021/22.



**The amount of funds disbursed through Cash Transfers for Orphans and Vulnerable Children Programme (CT-OVC) is expected to increase by 12.3 per cent to KSh 7.9 billion in 2021/22**

**Table 18.1: National Government Expenditure on Social Services, 2017/18 - 2021/22**

|  | <i>KSh Million</i> |                  |                  |                  |                  |
|--|--------------------|------------------|------------------|------------------|------------------|
|  | 2017/18            | 2018/19          | 2019/20          | 2020/21*         | 2021/22**        |
| <b>RECURRENT EXPENDITURE</b>           |                    |                  |                  |                  |                  |
| State Department for Labour            | 1,741.78           | 1,720.10         | 1,863.08         | 2,764.33         | 2,071.91         |
| State Department for Social Protection | 13,195.00          | 18,716.39        | 28,943.48        | 31,055.07        | 24,045.46        |
| State Department for Public Service    | 13,997.74          | 15,426.29        | 8,093.80         | 17,215.45        | 13,803.77        |
| State Department for Youth             | ..                 | ..               | 12,729.76        | 1,309.36         | 1,079.99         |
| State Department for Gender            | 1,210.57           | 1,281.00         | 1,497.02         | 977.98           | 772.89           |
| <b>SUB TOTAL</b>                       | <b>30,145.09</b>   | <b>37,143.78</b> | <b>53,127.15</b> | <b>53,322.19</b> | <b>41,774.02</b> |
| <b>DEVELOPMENT EXPENDITURE</b>         |                    |                  |                  |                  |                  |
| State Department for Labour            | 306.61             | 1,003.41         | 1,188.47         | 2,444.40         | 1,280.36         |
| State Department for Social Protection | 9,350.95           | 12,835.71        | 12,337.04        | 2,548.23         | 1,541.32         |
| State Department for Public Service    | 11,187.83          | 4,510.63         | 705.66           | 1,254.06         | 284.01           |
| State Department for Youth             | ..                 | ..               | 7,829.28         | 2,352.49         | 3,210.49         |
| State Department for Gender            | 3,187.75           | 2,628.50         | 2,515.70         | 2,374.00         | 1,340.92         |
| <b>SUB TOTAL</b>                       | <b>24,033.14</b>   | <b>20,978.25</b> | <b>24,576.15</b> | <b>10,973.18</b> | <b>7,657.09</b>  |
| <b>TOTAL EXPENDITURE</b>               | <b>54,178.23</b>   | <b>58,122.03</b> | <b>77,703.30</b> | <b>64,295.37</b> | <b>49,431.11</b> |

Source: The National Treasury

\*Provisional

\*\*Approved Estimates

..Data not available

## Economic Empowerment

**18.12. Women Enterprise Fund (WEF):** Table 18.2 presents information on loan disbursements by the Women Enterprise Fund from 2017/18 to 2021/22. The amount of loans disbursed is expected to decrease by 4.6 per cent to KSh 3.1 billion in 2021/22. Similarly, the amount of loan repayments is expected to decrease by 2.4 per cent to KSh 2.9 billion in 2021/22, while outstanding loans are expected to increase by 5.5 per cent to KSh 3.5 billion during the same period. Government grants are expected to increase by 40.0 per cent from KSh 226.5 million

in 2020/21 to KSh 317.2 million in 2021/22. Similarly, development and recurrent allocations are expected to increase by 60.0 per cent and 30.2 per cent to KSh 120.0 million and KSh 197.2 million, respectively, in 2021/22.

**18.13.** The number of groups benefiting from the WEF is expected to decrease from 12,264 in 2020/21 to 11,709 in 2021/22. Similarly, the total number of beneficiaries is expected to decrease by 5.0 per cent to 128,230 in 2021/22, with 80.0 per cent of them being women.

**Table 18.2: Women Enterprise Fund Loan Disbursement, 2017/18-2021/22**

| Financial Year | Number of Groups | Number of Beneficiaries |        |         | Amount Disbursed (KSh Million) | Amount Repaid (KSh Million) | Out-standing Loans(KSh Million) | GoK Grant (KSh Million) |             |       |
|----------------|------------------|-------------------------|--------|---------|--------------------------------|-----------------------------|---------------------------------|-------------------------|-------------|-------|
|                |                  | Female                  | Male   | Total   |                                |                             |                                 | Development             | Recur- rent | Total |
| 2017/18        | 9,502            | 97,973                  | 17,289 | 115,262 | 2,187.3                        | 1,957.2                     | 2,390.8                         | 557.5                   | 115.2       | 672.7 |
| 2018/19        | 13,490           | 129,432                 | 22,841 | 152,273 | 3,085.5                        | 2,626.4                     | 2,871.5                         | 328.5                   | 206.0       | 534.5 |
| 2019/20        | 10,962           | 98,109                  | 24,527 | 122,636 | 2,787.6                        | 2,717.8                     | 3,174.5                         | 200.0                   | 175.2       | 375.2 |
| 2020/21*       | 12,264           | 107,931                 | 26,983 | 134,914 | 3,248.0                        | 2,940.3                     | 3,279.5                         | 75.0                    | 151.5       | 226.5 |
| 2021/22 **     | 11,709           | 102,584                 | 25,646 | 128,230 | 3,100.0                        | 2,870.0                     | 3,459.5                         | 120.0                   | 197.2       | 317.2 |

Source: Women Enterprise Fund

\* Provisional

\*\*Estimates

**18.14.** Table 18.3 shows the number of groups and loan disbursement by the WEF by sector from 2018/19 to 2021/22. The number of beneficiary groups in Agriculture, Forestry & Fishing sector is expected to decrease from 3,710 in 2020/21 to 3,526 in 2021/22. Similarly, loans advanced to beneficiaries in this sector are expected to decrease by 4.6 per

cent over the same period. However, the number of beneficiary groups involved in Table Banking is expected to increase by 51.8 per cent from 2,675 in 2020/21 to 4,060 in 2021/22. The amount of loans advanced to groups involved in Table Banking are also projected to increase by 47.5 per cent from KSh 714.6 million in 2020/21 to KSh 1.1 billion in 2021/22.

**Table 18.3: Women Enterprise Fund Loans Disbursement by Sector, 2018/19 - 2020/21**

| Sector                                | 2018/19          |                                | 2019/20          |                                | 2020/21*         |                                | 2021/22**        |                                |
|---------------------------------------|------------------|--------------------------------|------------------|--------------------------------|------------------|--------------------------------|------------------|--------------------------------|
|                                       | Number of Groups | Amount Disbursed (KSh Million) | Number of Groups | Amount Disbursed (KSh Million) | Number of Groups | Amount Disbursed (KSh Million) | Number of Groups | Amount Disbursed (KSh Million) |
| Agriculture, Forestry & Fishing       | 2,968            | 678.8                          | 3,786            | 975.7                          | 3,710            | 974.4                          | 3,526            | 930.0                          |
| Manufacturing                         | 405              | 92.6                           | 149              | 27.9                           | 137              | 32.5                           | 73               | 31.0                           |
| Construction                          | 175              | 40.1                           | 141              | 27.9                           | 122              | 32.5                           | 89               | 31.0                           |
| Other Service Activities <sup>1</sup> | 9,942            | 2,274.0                        | 5,763            | 1,477.4                        | 5,620            | 1,494.1                        | 3,961            | 1,054.0                        |
| Table Banking <sup>2</sup>            |                  | 1,123                          |                  | 278.8                          | 2,675            | 714.6                          | 4,060            | 1,054.0                        |
| <b>Total</b>                          | <b>13,490</b>    | <b>3,085.5</b>                 | <b>10,962</b>    | <b>2,787.6</b>                 | <b>12,264</b>    | <b>3,248.0</b>                 | <b>11,709</b>    | <b>3,100.0</b>                 |

Source: Women Enterprise Fund

\* Provisional

\*\*Estimates

<sup>1</sup>Other Service Activities include, cybercafe, retail trade, event management, catering, hairdressing, tents & chairs for hire.

<sup>2</sup>For the FY 2018/19 Table banking was captured in the system as others hence the merged rows/cells.

**18.15. Uwezo Fund:** Table 18.4 shows loans disbursed by the Uwezo Fund to women, youth and PWDs groups from 2017/18 to 2021/22. Total Government grant to the Uwezo Fund is expected to increase by 44.7 per cent from KSh 149.0 million in 2020/21 to KSh 215.6 million in 2021/22. Similarly, development and recurrent allocations are expected to increase by 51.2 per cent and 42.2 per cent to KSh 62.0 million and KSh 153.6 million, respectively, in 2021/22. Overall, the total amount of loans disbursed is expected to decrease by 5.4 per cent to KSh 628.3 million in 2021/22. Consequently, the amount of loans disbursed to women, youth and PWDs groups are expected to decrease to KSh 485.7, KSh 127.5

and KSh 15.1 million, respectively, in 2021/22.

**18.16.** The total number of groups benefiting from the Fund is expected to decrease by 7.0 per cent from 6,452 in 2020/21 to 6,003 in 2021/22. The number of women, youth and PWDs groups benefiting from the Fund is also expected to decrease by 5.5, 9.3 and 20.8 per cent in 2021/22. Similarly, the number of members benefiting from the Fund is expected to decrease from 93,474 in 2020/21 to 64,538 in 2021/22 with women and men loan beneficiaries also expected to decrease by 30.0 per cent and 33.5 per cent, respectively, during the same period.

**Table 18.4: Uwezo Fund Loans Disbursement to Women, Youth and PWD Groups, 2017/18-2021/22**

| Financial Year | Number of Groups |       |     | Members |        |        | Amount Disbursed (KSh Million) |              |              | GoK Grant* (KSh Million) |       |             |           |       |
|----------------|------------------|-------|-----|---------|--------|--------|--------------------------------|--------------|--------------|--------------------------|-------|-------------|-----------|-------|
|                | Women            | Youth | PWD | Total   | Female | Male   | Total                          | Women Groups | Youth Groups | PWD Groups               | Total | Development | Recurrent | Total |
| 2017/18        | 3,747            | 1,472 | 138 | 5,357   | 56,188 | 22,580 | 78,768                         | 338.3        | 118.0        | 11.3                     | 467.6 | 500.0       | 182.8     | 682.8 |
| 2018/19        | 1,121            | 440   | 41  | 1,603   | 5,617  | 2,259  | 7,876                          | 110.2        | 38.5         | 3.7                      | 152.4 | 225.0       | 170.3     | 395.3 |
| 2019/20        | 3,060            | 976   | 106 | 4,142   | 31,453 | 12,641 | 44,094                         | 325.6        | 94.6         | 9.1                      | 429.3 | 185.7       | 170.8     | 356.5 |
| 2020/21*       | 4,589            | 1,671 | 192 | 6,452   | 66,737 | 26,737 | 93,474                         | 489.7        | 157.1        | 17.7                     | 664.5 | 41.0        | 108.0     | 149.0 |
| 2021/22**      | 4,335            | 1,516 | 152 | 6,003   | 46,748 | 17,790 | 64,538                         | 485.7        | 127.5        | 15.1                     | 628.3 | 62.0        | 153.6     | 215.6 |

Source: Uwezo Fund Oversight Board

\* Provisional

\*\* Estimates

+ Revised

**18.17. Youth Enterprise Development Fund (YEDF):** Table 18.5 shows loans disbursed by the Youth Enterprise Development Fund from 2017/18 to 2020/21. Government grant is expected to increase by 37.8 per cent from KSh 329.5 million in 2020/21 to KSh 454.1 million in 2021/22 with development and recurrent allocations expected to increase to KSh 130.0 million and KSh 324.1 million, respectively, in 2021/22. The total amount of loan disbursements from the YEDF is expected to increase by 25.7 per cent from KSh 580.7 million in 2020/21 to KSh 730.0 million in 2021/22.

Similarly, loan repayment is expected to increase by 15.4 per cent during the same period. The total number of beneficiaries of the YEDF loans is also expected to increase by 16.5 per cent to 98,886 in 2021/22. The number of female beneficiaries is expected to rise by 17.7 per cent to 42,498 while the number of male beneficiaries is expected to grow by 15.6 per cent to 56,388 over the same period. Overall, 43.0 per cent of the beneficiaries in 2021/22 are expected to be women.

**Table 18.5: Youth Enterprise Development Fund Loan Disbursements, 2017/18- 2021/22**

| Financial Year | Number of Beneficiaries |        |        | Amount Disbursed (KSh Million) | Amount Repaid (KSh Million) | GoK Grant (KSh Million) |           |       |
|----------------|-------------------------|--------|--------|--------------------------------|-----------------------------|-------------------------|-----------|-------|
|                | Female                  | Male   | Total  |                                |                             | Development             | Recurrent | Total |
| 2017/18        | 31,386                  | 47,079 | 78,465 | 549.2                          | 509.2                       | 76.3                    | 291.5     | 367.8 |
| 2018/19        | 18,470                  | 27,706 | 46,176 | 323.2                          | 290.1                       | 284.0                   | 285.7     | 569.7 |
| 2019/20        | 27,048                  | 40,573 | 67,621 | 473.3                          | 247.2                       | 335.3                   | 299.3     | 634.6 |
| 2020/21*       | 36,096                  | 48,780 | 84,876 | 580.7                          | 520.0                       | 30.0                    | 299.5     | 329.5 |
| 2021/22**      | 42,498                  | 56,388 | 98,886 | 730.0                          | 600.0                       | 130.0                   | 324.1     | 454.1 |

Source: Youth Enterprise Development Fund Board

\* Provisional

\*\*Estimates

**18.18. National Government Affirmative Action Fund (NGAAF):** Data pertaining to grants disbursed by NGAAF from 2017/18 to 2021/22 is presented in Table 18.6. Grants by NGAAF is one of the government strategies to address imbalance in development for vulnerable groups especially women. In the year under review, the NGAAF continued to support targeted beneficiaries by providing grants for socio-economic empowerment, promotion of enterprises through value addition and scholarships for vulnerable students.

**18.19.** Government grants under the NGAAF are expected to remain at the same level as the previous year at KSh 2.13 billion in 2021/22. The total amount disbursed for the three programmes is expected to increase by 19.4 per cent from KSh 879.9 million in 2020/21 to KSh 1.1 billion in 2021/22. The number of beneficiary groups under Social Economic Empowerment is expected to increase marginally from 2,337 in 2020/21 to 2,343 in 2021/22 with females expected to account for 78.1 per cent of the total beneficiaries under this Programme. Consequently, the amount disbursed for this Programme is expected to increase by 23.0 per cent to KSh 387.6 million during the same period.

**18.20.** The amount disbursed for value addition initiatives is expected to increase by 16.8 per cent from

KSh 236.0 million in 2020/21 to KSh 275.7 million in 2021/22. The number of groups is also expected to increase from 1,664 in 2020/21 to 1,673 in 2021/22. Similarly, the number of women beneficiaries is expected to increase from 55,761 in 2020/21 to 56,121 in 2021/22 while men beneficiaries are expected to increase by 1,206 over the same period.

**18.21.** Disbursements of bursaries and scholarships for vulnerable students are expected to increase by 17.9 per cent to KSh 387.6 million in 2021/22 from KSh 328.8 million in 2020/21. The total number of beneficiaries is also expected to increase by 2.3 per cent to 44,538 in the same period. Women beneficiaries are expected to increase by 1.7 per cent to 25,323, while the number of men beneficiaries are expected to increase by 3.0 per cent to 19,215 in 2021/22.



**The number of beneficiary groups under Social Economic Empowerment is expected to increase marginally from 2,337 in 2020/21 to 2,343 in 2021/22 with females expected to account for 78.1 per cent of the total beneficiaries under this Programme**

**Table 18.6: National Government Affirmative Action Fund Support by Programme, 2017/18-2021/22**

| Financial Year | Grants for Social Economic Empowerment |         |        |         | Grants for Value Addition Initiatives <sup>1</sup> |                      |        |        | Grants for Bursaries and Scholarship for Vulnerable Students |                         |        |        | Total Amount Disbursed (KSh Million) | GoK Grants <sup>2</sup> (KSh Million) |         |
|----------------|--|---------|--------|---------|--|----------------------|--------|--------|--|-------------------------|--------|--------|--------------------------------------|---------------------------------------|---------|
|                | Number of Groups                       | Members |        |         | Number of Groups                                   | Members <sup>+</sup> |        |        | Amount disbursed (KSh Million)                               | Number of Beneficiaries |        |        |                                      |                                       |         |
|                |  | Female  | Male   | Total   |  | Female               | Male   | Total  |  | Female                  | Male   | Total  |                                      |                                       |         |
| 2017/18        | 2,244                                  | 119,680 | 19,375 | 139,055 | 387.7  | ..                   | ..     | ..     | ..   | 11,605                  | 7,736  | 19,341 | 387.7                                | 775.3                                 |         |
| 2018/19        | 1,142                                  | 107,352 | 21,809 | 129,161 | 259.7  | 505                  | 15,453 | 10,302 | 25,755   | 101.1                   | 12,379 | 13,002 | 25,381                               | 216.6                                 | 577.5   |
| 2019/20        | 4,981                                  | 367,150 | 86,121 | 453,271 | 324.2  | 634                  | 38,054 | 11,963 | 50,017   | 184.9                   | 19,376 | 13,477 | 32,853                               | 271.0                                 | 780.2   |
| 2020/21*       | 2,337                                  | 170,701 | 47,886 | 218,587 | 315.1  | 1,664                | 55,761 | 26,576 | 82,337   | 236.0                   | 24,888 | 18,661 | 43,549                               | 328.8                                 | 879.9   |
| 2021/22**      | 2,343                                  | 171,053 | 48,034 | 219,087 | 387.6  | 1,673                | 56,121 | 27,782 | 83,903   | 275.7                   | 25,323 | 19,215 | 44,538                               | 387.6                                 | 1,050.9 |

Source: National Government Affirmative Action Fund

Missing Data

\* Provisional

\*\* Estimates

+Revised

<sup>1</sup> Value addition is change in physical state or form of the product<sup>2</sup> GoK Grant Allocation by the National Government includes both Development and Recurrent expenditure

## Access to Government Procurement Opportunities

**18.22.** The amounts reserved and those awarded for contracts under Access to Government Procurement Opportunities (AGPO) for the period 2017/18 to 2021/22 are presented in Table 18.7. The amount reserved for procurement of goods and services reported by public procurement entities is expected to increase from KSh 65.3 billion in 2020/21 to KSh 81.6 billion in 2021/22, mainly on account of expected increase in the number of reporting procuring entities. The value of contracts awarded is expected to increase from KSh 36.9 billion in 2020/21 to KSh 44.6 billion in 2021/22. The amount reserved and awarded by State Corporations is expected to be the highest at KSh 34.0 billion and KSh 24.6 billion, respectively, in 2021/22. County Governments (Executive) are expected to reserve and award the second highest amounts at KSh 32.5 billion and KSh 9.9 billion, respectively, in the same period.

**Table 18.7: Number of Registered and Reporting Procuring Entities, Amount Reserved and Awarded under AGPO, 2017/18-2021/22**

| Category of Procuring Entities                   | 2017/18                                |                                |                              | 2018/19                                |                                |                              | 2019/20                                |                                |                              | 2020/21*                               |                               |                              | 2021/22**                              |                                |                              |
|--|--|--------------------------------|------------------------------|--|--------------------------------|------------------------------|--|--------------------------------|------------------------------|--|-------------------------------|------------------------------|--|--------------------------------|------------------------------|
|  | Number of Reporting Procuring Entities | Amount Re-served (KSh Million) | Amount Awarded (KSh Million) | Number of Reporting Procuring Entities | Amount Re-served (KSh Million) | Amount Awarded (KSh Million) | Number of Reporting Procuring Entities | Amount Re-served (KSh Million) | Amount Awarded (KSh Million) | Number of Reporting Procuring Entities | Amount Reserved (KSh Million) | Amount Awarded (KSh Million) | Number of Reporting Procuring Entities | Amount Re-served (KSh Million) | Amount Awarded (KSh Million) |
| Ministries/State Departments                     | 28                                     | 19,674.8                       | 12,618.0                     | 35                                     | 15,048.3                       | 13,535.3                     | 29                                     | 5,279.7                        | 5,213.4                      | 33                                     | 6,374.9                       | 5,665.7                      | 42                                     | 7,648.8                        | 6,541.7                      |
| State Corporations                               | 83                                     | 33,471.7                       | 9,424.4                      | 97                                     | 29,132.9                       | 10,350.3                     | 162                                    | 32,720.2                       | 9,953.0                      | 117                                    | 30,941.0                      | 19,876.9                     | 149                                    | 34,035.1                       | 24,557.4                     |
| Constitutional Commissions & Independent Offices | 12                                     | 1,924.6                        | 492.1                        | 17                                     | 4,610.1                        | 774.4                        | 18                                     | 2,950.1                        | 581.0                        | 18                                     | 1,218.7                       | 593.1                        | 18                                     | 1,948.8                        | 671.9                        |
| Universities & Colleges                          | 29                                     | 1,734.0                        | 804.0                        | 31                                     | 1,715.5                        | 1,290.2                      | 56                                     | 3,649.2                        | 1,453.9                      | 45                                     | 2,346.9                       | 1,997.1                      | 57                                     | 3,755.2                        | 2,409.8                      |
| County Governments (Executive)                   | 9                                      | 6,542.2                        | 3,405.0                      | 15                                     | 8,644.7                        | 4,152.9                      | 30                                     | 16,321.6                       | 5,409.4                      | 40                                     | 23,261.0                      | 8,334.2                      | 51                                     | 32,531.6                       | 9,905.6                      |
| County Governments (Assemblies)                  | 6                                      | 265.6                          | 51.1                         | 6                                      | 473.3                          | 36.6                         | 11                                     | 740.3                          | 206.7                        | 19                                     | 1,120.6                       | 438.5                        | 24                                     | 1,680.0                        | 544.4                        |
| <b>Total</b>                                     | <b>167</b>                             | <b>63,612.9</b>                | <b>26,794.6</b>              | <b>201</b>                             | <b>59,624.8</b>                | <b>30,139.7</b>              | <b>306</b>                             | <b>61,661.1</b>                | <b>22,817.5</b>              | <b>272</b>                             | <b>65,263.0</b>               | <b>36,905.5</b>              | <b>341</b>                             | <b>81,599.5</b>                | <b>44,630.9</b>              |

Source: Public Procurement Regulatory Authority, National Treasury

\* Provisional  
\*\*Estimates

**18.23.** Table 18.8 presents the number of tenders awarded by public procuring entities from 2017/18 to 2021/22 to youth, women and Persons with Disabilities (PWDs). The total number of tenders awarded is expected to increase by 22.5 per cent from 34.7 thousand in 2020/21 to 42.5 thousand in 2021/22. During the same period, the total value of tenders awarded is expected to increase by 20.9 per cent from KSh 36.9 billion in 2020/21 to KSh 44.6 billion in 2021/22. The number of tenders awarded to the youth is expected to increase by 22.8 per cent to 17.0 thousand with the value of tenders expected to increase by

10.5 per cent to KSh 16.8 billion. Similarly, the number of tenders awarded to women is expected to increase by 20.9 per cent to 22.1 thousand with the value expected to increase by 27.5 per cent to KSh 24.4 billion in the same period. The number and value of tenders awarded to the PWDs are expected to increase by 32.7 per cent and 30.8 per cent, respectively, in 2021/22. The number of tenders awarded to women is expected to account for over half of all AGPO tenders in 2021/22.

**Table 18.8: Tenders Awarded Under AGPO by Public Procuring Entities, 2017/18-2021/22**

| Category | Procuring Entity                | 2011/18           |                     | 2018/19           |                    | 2019/20           |                     | 2020/21*          |                     | 2021/22**         |                     |
|----------|---------------------------------|-------------------|---------------------|-------------------|--------------------|-------------------|---------------------|-------------------|---------------------|-------------------|---------------------|
|          |                                 | Number of Tenders | Value (KSh Million) | Number of Tenders | Value(KSh Million) | Number of Tenders | Value (KSh Million) | Number of Tenders | Value (KSh Million) | Number of Tenders | Value (KSh Million) |
| Youth    | Ministries                      | 2,630             | 6,066.8             | 2,742             | 5,707.6            | 1,629             | 3,228.0             | 2,329             | 2,571.2             | 2,795             | 2,828.3             |
|          | State Corporations              | 5,234             | 3,832.0             | 5,943             | 3,962.2            | 4,749             | 3,359.9             | 4,943             | 7,267.3             | 5,437             | 7,994.0             |
|          | Commissions                     | 752               | 228.0               | 898               | 332.0              | 713               | 193.6               | 672               | 199.2               | 874               | 239.1               |
|          | Universities & Colleges         | 1,621             | 374.8               | 1,935             | 400.7              | 1,897             | 592.6               | 3,532             | 953.0               | 4,592             | 1,143.6             |
|          | County Governments (Executive)  | 1,044             | 1,804.9             | 942               | 2,495.9            | 1,146             | 2,418.8             | 2,173             | 3,975.4             | 3,028             | 4,372.9             |
|          | County Governments (Assemblies) | 80                | 34.2                | 62                | 20.3               | 69                | 115.4               | 182               | 197.3               | 255               | 256.5               |
|          | <b>Sub-Total</b>                | <b>11,361</b>     | <b>12,340.7</b>     | <b>12,522</b>     | <b>12,918.7</b>    | <b>10,203</b>     | <b>9,908.3</b>      | <b>13,831</b>     | <b>15,163.4</b>     | <b>16,981</b>     | <b>16,834.4</b>     |
| Women    | Ministries                      | 2,724             | 6,534.8             | 3,120             | 7,104.8            | 1,612             | 1,904.1             | 3,197             | 2,931.4             | 4,156             | 3,517.7             |
|          | State Corporations              | 8,220             | 5,153.0             | 8,674             | 5,801.8            | 7,242             | 5,584.0             | 8,139             | 10,901.0            | 9,147             | 14,171.3            |
|          | Commissions                     | 906               | 228.8               | 1,043             | 367.0              | 759               | 334.9               | 859               | 368.0               | 972               | 404.4               |
|          | Universities & Colleges         | 1,788             | 402.6               | 3,242             | 813.3              | 3,141             | 784.1               | 3,872             | 956.2               | 4,773             | 1,166.0             |
|          | County Governments (Executive)  | 856               | 1,290.1             | 848               | 1,445.6            | 1,112             | 2,229.0             | 1,988             | 3,796.1             | 2,762             | 4,913.7             |
|          | County Governments (Assemblies) | 23                | 14.4                | 38                | 14.7               | 72                | 70.0                | 197               | 225.7               | 256               | 270.9               |
|          | <b>Sub-Total</b>                | <b>14,517</b>     | <b>13,623.6</b>     | <b>16,965</b>     | <b>15,547.2</b>    | <b>13,938</b>     | <b>10,906.1</b>     | <b>18,252</b>     | <b>19,178.5</b>     | <b>22,067</b>     | <b>24,444.1</b>     |
| PWDS     | Ministries                      | 196               | 569.5               | 342               | 722.9              | 113               | 81.3                | 214               | 163.0               | 300               | 195.7               |
|          | State Corporations              | 918               | 439.5               | 1,076             | 586.3              | 1,052             | 1,009.2             | 1,403             | 1,708.7             | 1,871             | 2,392.1             |
|          | Commissions                     | 97                | 35.2                | 151               | 75.4               | 151               | 52.5                | 98                | 25.8                | 118               | 28.4                |
|          | Universities & Colleges         | 201               | 26.6                | 440               | 76.2               | 373               | 77.2                | 499               | 88.0                | 668               | 100.2               |
|          | County Governments (Executive)  | 77                | 310.0               | 151               | 211.4              | 185               | 761.6               | 348               | 562.7               | 451               | 619.0               |
|          | County Governments (Assemblies) | 6                 | 2.5                 | 4                 | 1.6                | 36                | 21.3                | 29                | 15.4                | 32                | 17.0                |
|          | <b>Sub-Total</b>                | <b>1,495</b>      | <b>1,383.3</b>      | <b>2,164</b>      | <b>1,673.8</b>     | <b>1,910</b>      | <b>2,003.1</b>      | <b>2,591</b>      | <b>2,563.7</b>      | <b>3,439</b>      | <b>3,352.4</b>      |
|          | <b>Total</b>                    | <b>27,373</b>     | <b>27,347.7</b>     | <b>31,651</b>     | <b>30,139.7</b>    | <b>26,051</b>     | <b>22,817.5</b>     | <b>34,674</b>     | <b>36,905.5</b>     | <b>42,486</b>     | <b>44,630.9</b>     |

Source: Public Procurement Regulatory Authority, The National Treasury

\*Provisional

\*\*Estimates

**18.24. National Youth Service:** Paramilitary training is the entry point into the Service for uniformed personnel where Kenyan volunteer youth are recruited into NYS, equipped with paramilitary skills and knowledge, and regimented. The training is meant to instill in recruits a tradition of patriotism, loyalty, cohesion, integrity, and service to the nation. Owing to the need to address emerging youth issues, the training has also incorporated training in areas such as life skills and counter-terrorism among others.

**18.25.** National Service is the second phase of the NYS programs. Upon successful pass-out, servicemen and servicewomen dedicate time and effort between six to twelve months to render voluntary service to the nation. The objective is to infuse discipline and work ethics among the community youth. The servicemen and servicewomen are engaged in key areas that include general duty; agricultural production; manufacturing; security services, emergency; disaster response, crowd control; road and dam construction; and borehole drilling among others. The servicemen and servicewomen are deployed to the various twenty-two (22) NYS Units spread across the country.

**18.26.** Technical and Vocational Training: Servicemen and service women who successfully undertake national service are transited to the third phase in the technical and vocational training institutions where they are provided with technical and vocational training skills in readiness for employment.

**18.27.** The number of servicewomen and servicemen recruited by the National Youth Service (NYS) has been decreasing over the years as shown in Table 18.9. The total number of servicewomen and servicemen recruited reduced by 6.8 per cent from 8,046 in 2020 to 7,500 in 2021 with over 97.0 per cent of servicemen and servicewomen proceeding for paramilitary training over the same period. The total number of servicewomen and servicemen in National Service increased by 31.1 per cent from 11,267 in 2020 to 14,768 in 2021. Likewise, the number of servicewomen and servicemen engaged in National Service went up by 15.7 per cent and 37.7 per cent, respectively, in 2021. The total number of servicemen and servicewomen in Technical and Vocational Education Training (TVET) increased from 32,555 in 2020 to 34,839 in 2021. The number of servicewomen in TVET increased by 22.4 per cent to 10,358, while that of servicemen increased by 1.6 per cent to 24,481 in 2021.

**Table 18.9: Servicewomen and Servicemen in NYS, 2017-2021**

| Year  | Number    |        |        |                       |        |        |                  |        |        |  |        |        |
|-------|-----------|--------|--------|-----------------------|--------|--------|------------------|--------|--------|--|--------|--------|
|       | Recruited |        |        | Paramilitary Training |        |        | National Service |        |        | Technical and Vocational Training (TVET) |        |        |
|       | Female    | Male   | Total  | Female                | Male   | Total  | Female           | Male   | Total  | Female                                   | Male   | Total  |
| 2017  | 7,936     | 21,276 | 29,212 | 7,931                 | 21,262 | 29,193 | ..               | ..     | ..     | ..                                       | ..     | ..     |
| 2018  | 4,850     | 12,335 | 17,185 | 4,690                 | 12,160 | 16,850 | 4,590            | 11,893 | 16,483 | 9,450                                    | 22,050 | 31,500 |
| 2019  | 3,301     | 8,893  | 12,194 | 3,102                 | 8,612  | 11,714 | 3,037            | 8,359  | 11,396 | 11,788                                   | 27,506 | 39,294 |
| 2020  | 2,294     | 5,752  | 8,046  | 2,215                 | 5,596  | 7,811  | 3,404            | 7,863  | 11,267 | 8,462                                    | 24,093 | 32,555 |
| 2021* | 1,905     | 5,595  | 7,500  | 1,833                 | 5,478  | 7,311  | 3,939            | 10,829 | 14,768 | 10,358                                   | 24,481 | 34,839 |

Source: National Youth Service

\* Provisional

.. Missing Data

## Decision Making

**18.28.** Table 18.10 provides details of participation of women and men in selected decision-making positions in the public service for the period 2020 to 2021. Women Representation for the positions of Deputy County Commissioner, Assistant County Commissioner, Chief and Assistant Chief increased by 27, 210, 37 and 121 women to 52, 627, 436 and 1,714 women, respectively, in 2021. The number of women County Executive Committee (CECs) members increased from 142 in 2020 to 145 in 2021. However, the number of women in the positions of Chief Administrative Secretary and County Commissioner each reduced by one over the same period. During the period under review, the number of women Governors, Deputy Governors and County Secretaries remained unchanged. Cabinet Secretaries, Heads of Constitutional Commissions and Independent Offices, Assistant County Commissioners and CEC members achieved the two-third gender rule in 2021.

**18.29.** One more woman joined the Senate in 2021

following the exit of a male senator. There was an increase in the positions held by women in the County Assemblies from 737 in 2020 to 739 in 2021. In the counties, the two-third gender rule was only achieved by Members of County Assembly (MCAs).

**18.30.** The number of female judges in the Supreme Court, Court of Appeal and High Court increased by 1, 3 and 7 women to 3,10 and 65 women, respectively, in 2021. Similarly, the number of female magistrates rose from 252 in 2020 to 257 in 2021. Overall, Judicial officers achieved the two-third gender rule during the review period.



**The number of female judges in the Supreme Court, Court of Appeal and High Court increased by 1, 3 and 7 women to 3,10 and 65 women, respectively, in 2021**

**Table 18.10: Participation of Women and Men in Selected Decision-Making Positions in the Public Service, 2020-2021**

| Decision Making Positions                                  | 2020   |       |       |          | 2021*  |       |       |          |
|--|--------|-------|-------|----------|--------|-------|-------|----------|
|  | Female | Male  | Total | % Female | Female | Male  | Total | % Female |
| <b>Executive</b>   |        |       |       |          |        |       |       |          |
| <b>National</b>  |        |       |       |          |        |       |       |          |
| Cabinet Secretaries  | 7      | 14    | 21    | 33.3     | 7      | 14    | 21    | 33.3     |
| Chief Administrative Secretaries                           | 11     | 25    | 36    | 30.6     | 10     | 21    | 31    | 32.3     |
| Principal Secretaries                                      | 9      | 32    | 41    | 22.0     | 9      | 32    | 41    | 22.0     |
| Diplomatic Corps <sup>1</sup>                              | 18     | 38    | 56    | 32.1     | 18     | 38    | 56    | 32.1     |
| CEOs of Constitutional commissions and Independent offices | 7      | 8     | 15    | 46.7     | 7      | 8     | 15    | 46.7     |
| Regional Commissioners                                     | 1      | 6     | 7     | 14.3     | 1      | 6     | 7     | 14.3     |
| County Commissioners.                                      | 7      | 40    | 47    | 14.9     | 6      | 41    | 47    | 12.8     |
| Deputy County Commissioners                                | 25     | 248   | 273   | 9.2      | 52     | 304   | 356   | 14.6     |
| Assistant County Commissioners                             | 417    | 852   | 1,269 | 32.9     | 627    | 1,178 | 1,805 | 34.7     |
| Chiefs   | 399    | 2,875 | 3,274 | 12.2     | 436    | 2,870 | 3,306 | 13.2     |
| Assistant Chiefs   | 1,593  | 6,206 | 7,799 | 20.4     | 1,714  | 6,335 | 8,049 | 21.3     |
| <b>County</b>  |        |       |       |          |        |       |       |          |
| Governors  | 3      | 44    | 47    | 6.4      | 3      | 44    | 47    | 6.4      |
| Deputy Governors   | 7      | 36    | 43    | 16.3     | 7      | 36    | 43    | 16.3     |
| County Secretaries   | 5      | 42    | 47    | 10.6     | 5      | 42    | 47    | 10.6     |
| County Executive Committee Members                         | 142    | 292   | 434   | 32.7     | 145    | 291   | 436   | 33.3     |
| <b>Legislature</b>   |        |       |       |          |        |       |       |          |
| <b>National</b>  |        |       |       |          |        |       |       |          |
| Senators   | 21     | 46    | 67    | 31.3     | 22     | 45    | 67    | 32.8     |
| Members of Parliament                                      | 75     | 274   | 349   | 21.5     | 75     | 274   | 349   | 21.5     |
| Speakers   | 0      | 2     | 2     | 0.0      | 0      | 2     | 2     | 0.0      |
| Clerks   | 0      | 2     | 2     | 0.0      | 0      | 2     | 2     | 0.0      |
| <b>County</b>  |        |       |       |          |        |       |       |          |
| Members of County Assembly                                 | 737    | 1,450 | 2,187 | 33.7     | 739    | 1,458 | 2,197 | 33.6     |
| Speakers   | 4      | 43    | 47    | 8.5      | 4      | 43    | 47    | 8.5      |
| Clerks   | 1      | 46    | 47    | 2.1      | 1      | 46    | 47    | 2.1      |
| <b>Judiciary</b>   |        |       |       |          |        |       |       |          |
| Supreme Court Judges                                       | 2      | 4     | 6     | 33.3     | 3      | 4     | 7     | 42.9     |
| Court of Appeal Judges                                     | 7      | 12    | 19    | 36.8     | 10     | 10    | 20    | 50.0     |
| High Court Judges  | 58     | 69    | 127   | 45.7     | 65     | 82    | 147   | 44.2     |
| Magistrates  | 252    | 222   | 474   | 53.2     | 257    | 226   | 483   | 53.2     |
| Kadhis   | 0      | 52    | 52    | 0.0      | 0      | 52    | 52    | 0.0      |

Source: State Department for Interior and Citizen Services, County Assemblies, Cabinet Affairs, National Assembly, Senate, County Governments (Executive), Ministry of Foreign Affairs, The Judiciary

<sup>1</sup>Ambassadors and High Commissioners

\* Provisional

**18.31.** Table 18.11 presents the distribution of elected and nominated Members of County Assemblies (MCAs) by county and sex for 2020 and 2021 as at 31<sup>st</sup> December. The total number of women and men MCAs increased from 737 and 1,450 in 2020 to 739 and 1,458, respectively, in 2021. Nationally, the two-third gender rule requirement for members of

County Assemblies was met during the review period. Nyamira and Lamu remained as the counties with the highest proportion of women MCAs at 38.9 per cent, while Nandi County had the lowest proportion of Women MCAs at 23.5 per cent. Thirteen County Assemblies did not meet the minimum two-third gender rule requirement in 2021.

**Table 18.11: Distribution of Members of County Assembly by County and Sex, 2020 and 2021\***

| County<br>Code | County        | 2020    |      |           |      |        |      |          |        |        |        | 2021*   |      |           |      |        |      |        |      |        |      |
|----------------|---------------|---------|------|-----------|------|--------|------|----------|--------|--------|--------|---------|------|-----------|------|--------|------|--------|------|--------|------|
|                |               | Elected |      | Nominated |      | Total  |      | Female   |        | Female |        | Elected |      | Nominated |      | Total  |      | Male   |      | Female |      |
|                |               | Female  | Male | Female    | Male | Female | Male | % Female | Female | Male   | Female | Female  | Male | Female    | Male | Female | Male | Female | Male | Female | Male |
| 001            | Mombasa       | 5       | 26   | 10        | 1    | 15     | 27   | 35.7     | 5      | 26     | 10     | 1       | 15   | 27        | 35.7 | 12     | 2    | 12     | 21   | 21     | 36.4 |
| 002            | Kwale         | 0       | 20   | 12        | 2    | 12     | 22   | 35.3     | 0      | 19     | 12     | 2       | 12   | 2         | 17   | 2      | 17   | 2      | 17   | 36     | 32.1 |
| 003            | Kilifi        | 2       | 33   | 17        | 2    | 19     | 35   | 35.2     | 0      | 34     | 17     | 0       | 17   | 0         | 34   | 5      | 3    | 7      | 7    | 16     | 30.4 |
| 004            | Tana River    | 2       | 13   | 5         | 3    | 7      | 16   | 30.4     | 2      | 13     | 5      | 0       | 5    | 0         | 30.4 | 3      | 7    | 7      | 7    | 16     | 38.9 |
| 005            | Lamu          | 1       | 9    | 6         | 2    | 7      | 11   | 38.9     | 1      | 9      | 6      | 0       | 6    | 0         | 38.9 | 2      | 7    | 7      | 11   | 11     | 31.4 |
| 006            | Taita/Taveta  | 0       | 20   | 11        | 2    | 11     | 22   | 33.3     | 0      | 22     | 11     | 0       | 11   | 0         | 33.3 | 3      | 17   | 3      | 17   | 33     | 34.0 |
| 007            | Garissa       | 1       | 29   | 17        | 3    | 18     | 32   | 36.0     | 0      | 30     | 17     | 0       | 17   | 0         | 36.0 | 1      | 30   | 1      | 30   | 17     | 34.0 |
| 008            | Wajir         | 0       | 30   | 16        | 2    | 16     | 32   | 33.3     | 1      | 30     | 16     | 0       | 16   | 0         | 33.3 | 2      | 17   | 2      | 17   | 17     | 34.7 |
| 009            | Mandera       | 0       | 30   | 16        | 2    | 16     | 32   | 33.3     | 0      | 30     | 16     | 0       | 16   | 0         | 33.3 | 2      | 16   | 2      | 16   | 16     | 33.3 |
| 010            | Marsabit      | 0       | 20   | 8         | 2    | 8      | 22   | 26.7     | 2      | 18     | 8      | 0       | 8    | 0         | 26.7 | 8      | 2    | 8      | 2    | 10     | 20   |
| 011            | Isiolo        | 0       | 10   | 6         | 1    | 6      | 11   | 35.3     | 0      | 10     | 6      | 0       | 6    | 0         | 35.3 | 1      | 6    | 1      | 6    | 11     | 35.3 |
| 012            | Meru          | 2       | 43   | 21        | 2    | 23     | 45   | 33.8     | 1      | 44     | 21     | 0       | 21   | 0         | 33.8 | 2      | 22   | 2      | 22   | 46     | 32.4 |
| 013            | Tharaka-Nithi | 2       | 13   | 4         | 1    | 6      | 14   | 30.0     | 2      | 13     | 4      | 0       | 4    | 0         | 30.0 | 1      | 6    | 1      | 6    | 14     | 30.0 |
| 014            | Embu          | 0       | 20   | 11        | 2    | 11     | 22   | 33.3     | 0      | 20     | 11     | 0       | 11   | 0         | 33.3 | 2      | 11   | 2      | 11   | 22     | 33.3 |
| 015            | Kitui         | 6       | 34   | 12        | 2    | 18     | 36   | 33.3     | 6      | 34     | 12     | 0       | 12   | 0         | 33.3 | 2      | 18   | 2      | 18   | 36     | 33.3 |
| 016            | Machakos      | 4       | 36   | 16        | 3    | 20     | 39   | 33.9     | 4      | 36     | 16     | 0       | 16   | 0         | 33.9 | 3      | 20   | 3      | 20   | 39     | 33.9 |
| 017            | Makueni       | 1       | 28   | 15        | 3    | 16     | 31   | 34.0     | 1      | 29     | 15     | 0       | 15   | 0         | 34.0 | 3      | 16   | 3      | 16   | 32     | 33.3 |
| 018            | Nyandarua     | 1       | 24   | 12        | 2    | 13     | 26   | 33.3     | 1      | 24     | 12     | 0       | 12   | 0         | 33.3 | 2      | 13   | 2      | 13   | 26     | 33.3 |
| 019            | Nyeri         | 4       | 26   | 12        | 2    | 16     | 28   | 36.4     | 4      | 26     | 12     | 0       | 12   | 0         | 36.4 | 2      | 16   | 2      | 16   | 28     | 36.4 |
| 020            | Kirinyaga     | 0       | 20   | 11        | 2    | 11     | 22   | 33.3     | 0      | 20     | 11     | 0       | 11   | 0         | 33.3 | 2      | 11   | 2      | 11   | 22     | 33.3 |
| 021            | Murang'a      | 2       | 33   | 16        | 2    | 18     | 35   | 34.0     | 2      | 33     | 16     | 0       | 16   | 0         | 34.0 | 2      | 18   | 2      | 18   | 35     | 34.0 |
| 022            | Kiambu        | 1       | 59   | 29        | 3    | 30     | 62   | 32.6     | 0      | 59     | 29     | 0       | 29   | 0         | 32.6 | 3      | 29   | 3      | 29   | 62     | 31.9 |
| 023            | Turkana       | 2       | 28   | 15        | 2    | 17     | 30   | 36.2     | 2      | 28     | 15     | 0       | 15   | 0         | 36.2 | 2      | 17   | 2      | 17   | 30     | 36.2 |
| 024            | West Pokot    | 0       | 20   | 11        | 2    | 11     | 22   | 33.3     | 0      | 20     | 11     | 0       | 11   | 0         | 33.3 | 2      | 11   | 2      | 11   | 22     | 33.3 |
| 025            | Samburu       | 0       | 15   | 10        | 2    | 10     | 17   | 37.0     | 0      | 15     | 10     | 0       | 10   | 0         | 37.0 | 1      | 10   | 1      | 10   | 17     | 37.0 |
| 026            | Trans Nzoia   | 1       | 24   | 11        | 3    | 12     | 27   | 30.8     | 1      | 23     | 11     | 0       | 11   | 0         | 30.8 | 1      | 12   | 1      | 12   | 26     | 31.6 |

**Table 18.11: Distribution of Members of County Assembly by County and Sex, 2020 and 2021 (Continued)**

| County Code     | County          | 2020      |              |            |           |            |              | 2021*       |           |              |            |           |              |
|-----------------|-----------------|-----------|--------------|------------|-----------|------------|--------------|-------------|-----------|--------------|------------|-----------|--------------|
|                 |                 | Elected   |              | Nominated  |           | Total      |              | Elected     |           | Nominated    |            | Total     |              |
|                 |                 | Female    | Male         | Female     | Male      | Female     | Male         | % Female    | Female    | Male         | Female     | Male      | % Female     |
| 027             | Uasin Gishu     | 1         | 28           | 15         | 2         | 16         | 30           | 34.8        | 2         | 28           | 15         | 2         | 17           |
| 028             | Elgeyo/Marakwet | 0         | 20           | 11         | 2         | 11         | 22           | 33.3        | 1         | 19           | 11         | 2         | 12           |
| 029             | Nandi           | 1         | 24           | 7          | 2         | 8          | 26           | 23.5        | 1         | 24           | 7          | 2         | 8            |
| 030             | Baringo         | 2         | 28           | 13         | 2         | 15         | 30           | 33.3        | 2         | 29           | 13         | 2         | 15           |
| 031             | Laikipia        | 1         | 14           | 7          | 2         | 8          | 16           | 33.3        | 1         | 14           | 7          | 2         | 8            |
| 032             | Nakuru          | 6         | 47           | 21         | 2         | 27         | 49           | 35.5        | 6         | 49           | 21         | 2         | 27           |
| 033             | Narok           | 1         | 29           | 15         | 2         | 16         | 31           | 34.0        | 0         | 28           | 15         | 2         | 15           |
| 034             | Kaijado         | 0         | 25           | 14         | 2         | 14         | 27           | 34.1        | 0         | 25           | 14         | 2         | 14           |
| 035             | Kericho         | 1         | 29           | 15         | 2         | 16         | 31           | 34.0        | 1         | 29           | 15         | 2         | 16           |
| 036             | Bomet           | 3         | 22           | 9          | 2         | 12         | 24           | 33.3        | 3         | 22           | 9          | 2         | 12           |
| 037             | Kakamega        | 3         | 57           | 27         | 2         | 30         | 59           | 33.7        | 2         | 58           | 27         | 2         | 29           |
| 038             | Vihiga          | 1         | 24           | 12         | 1         | 13         | 25           | 34.2        | 1         | 24           | 12         | 1         | 13           |
| 039             | Bungoma         | 7         | 38           | 13         | 2         | 20         | 40           | 33.3        | 8         | 39           | 13         | 2         | 21           |
| 040             | Busia           | 1         | 34           | 16         | 2         | 17         | 36           | 32.1        | 3         | 32           | 16         | 2         | 19           |
| 041             | Siaya           | 5         | 25           | 10         | 2         | 15         | 27           | 35.7        | 4         | 28           | 10         | 2         | 14           |
| 042             | Kisumu          | 5         | 30           | 11         | 2         | 16         | 32           | 33.3        | 5         | 30           | 11         | 2         | 16           |
| 043             | Homa Bay        | 2         | 38           | 18         | 2         | 20         | 40           | 33.3        | 6         | 38           | 18         | 2         | 24           |
| 044             | Migori          | 3         | 37           | 16         | 1         | 19         | 38           | 33.3        | 1         | 39           | 16         | 1         | 17           |
| 045             | Kisii           | 2         | 42           | 22         | 2         | 24         | 44           | 35.3        | 2         | 42           | 22         | 2         | 24           |
| 046             | Nyamira         | 1         | 19           | 13         | 3         | 14         | 22           | 38.9        | 1         | 19           | 13         | 3         | 14           |
| 047             | Nairobi City    | 4         | 81           | 35         | 2         | 39         | 83           | 32.0        | 4         | 81           | 35         | 2         | 39           |
| <b>National</b> |                 | <b>87</b> | <b>1,354</b> | <b>650</b> | <b>96</b> | <b>737</b> | <b>1,450</b> | <b>33.7</b> | <b>89</b> | <b>1,362</b> | <b>650</b> | <b>96</b> | <b>739</b>   |
|                 |                 |           |              |            |           |            |              |             |           |              |            |           | <b>1,458</b> |
|                 |                 |           |              |            |           |            |              |             |           |              |            |           | <b>33.6</b>  |

Source: County Assemblies  
 \* Provisional

**18.32.** Table 18.12 presents the distribution of CEC members by county and sex for the period 2020 and 2021. The total number of CEC members increased marginally from 434 in 2020 to 436 in 2021. The proportion of women CEC members increased from 32.7 per cent in 2020 to 33.3 per cent in 2021, thereby meeting the two-third gender rule. Kiambu

County had the highest representation of women CEC members at 54.5 per cent while Homa Bay, Kisii, Nyamira and Nandi Counties had the lowest women representation at 22.2 per cent each. Overall, twenty-six counties did not meet the two-third gender rule in the review period.

**Table 18.12: Distribution of County Executive Committee Members by County and Sex, 2020 and 2021**

| County Code | County        | 2020   |      |       |          | 2021*  |      |       |          |
|-------------|---------------|--------|------|-------|----------|--------|------|-------|----------|
|             |               | Female | Male | Total | % Female | Female | Male | Total | % Female |
| 001         | Mombasa       | 2      | 4    | 6     | 33.3     | 2      | 4    | 6     | 33.3     |
| 002         | Kwale         | 3      | 7    | 10    | 30.0     | 3      | 7    | 10    | 30.0     |
| 003         | Kilifi        | 5      | 5    | 10    | 50.0     | 5      | 5    | 10    | 50.0     |
| 004         | Tana River    | 2      | 6    | 8     | 25.0     | 2      | 6    | 8     | 25.0     |
| 005         | Lamu          | 2      | 4    | 6     | 33.3     | 2      | 4    | 6     | 33.3     |
| 006         | Taita/Taveta  | 3      | 7    | 10    | 30.0     | 3      | 7    | 10    | 30.0     |
| 007         | Garissa       | 3      | 7    | 10    | 30.0     | 3      | 7    | 10    | 30.0     |
| 008         | Wajir         | 3      | 7    | 10    | 30.0     | 3      | 7    | 10    | 30.0     |
| 009         | Mandera       | 1      | 6    | 7     | 14.3     | 3      | 7    | 10    | 30.0     |
| 010         | Marsabit      | 3      | 7    | 10    | 30.0     | 3      | 7    | 10    | 30.0     |
| 011         | Isiolo        | 2      | 5    | 7     | 28.6     | 2      | 5    | 7     | 28.6     |
| 012         | Meru          | 4      | 7    | 11    | 36.4     | 4      | 7    | 11    | 36.4     |
| 013         | Tharaka-Nithi | 2      | 5    | 7     | 28.6     | 2      | 5    | 7     | 28.6     |
| 014         | Embu          | 3      | 8    | 11    | 27.3     | 3      | 8    | 11    | 27.3     |
| 015         | Kitui         | 4      | 8    | 12    | 33.3     | 4      | 8    | 12    | 33.3     |
| 016         | Machakos      | 3      | 7    | 10    | 30.0     | 3      | 7    | 10    | 30.0     |
| 017         | Makueni       | 3      | 7    | 10    | 30.0     | 3      | 6    | 9     | 33.3     |
| 018         | Nyandarua     | 3      | 6    | 9     | 33.3     | 3      | 6    | 9     | 33.3     |
| 019         | Nyeri         | 5      | 5    | 10    | 50.0     | 5      | 5    | 10    | 50.0     |
| 020         | Kirinyaga     | 3      | 5    | 8     | 37.5     | 3      | 5    | 8     | 37.5     |
| 021         | Murang'a      | 3      | 7    | 10    | 30.0     | 3      | 6    | 9     | 33.3     |
| 022         | Kiambu        | 6      | 5    | 11    | 54.5     | 6      | 5    | 11    | 54.5     |
| 023         | Turkana       | 3      | 7    | 10    | 30.0     | 3      | 7    | 10    | 30.0     |
| 024         | West Pokot    | 3      | 6    | 9     | 33.3     | 3      | 6    | 9     | 33.3     |
| 025         | Samburu       | 3      | 6    | 9     | 33.3     | 3      | 6    | 9     | 33.3     |
| 026         | Trans Nzoia   | 4      | 6    | 10    | 40.0     | 4      | 6    | 10    | 40.0     |
| 027         | Uasin Gishu   | 4      | 6    | 10    | 40.0     | 4      | 6    | 10    | 40.0     |

**Table 18.12: Distribution of County Executive Committee Members by County and Sex, 2020 and 2021 (Continued)**

| County Code     | County          | 2020       |            |            |             | 2021*      |            |            |             |
|-----------------|-----------------|------------|------------|------------|-------------|------------|------------|------------|-------------|
|                 |                 | Female     | Male       | Total      | % Female    | Female     | Male       | Total      | % Female    |
| 028             | Elgeyo/Marakwet | 3          | 6          | 9          | 33.3        | 3          | 6          | 9          | 33.3        |
| 029             | Nandi           | 3          | 7          | 10         | 30.0        | 2          | 7          | 9          | 22.2        |
| 030             | Baringo         | 3          | 7          | 10         | 30.0        | 3          | 7          | 10         | 30.0        |
| 031             | Laikipia        | 3          | 4          | 7          | 42.9        | 2          | 5          | 7          | 28.6        |
| 032             | Nakuru          | 1          | 6          | 7          | 14.3        | 3          | 7          | 10         | 30.0        |
| 033             | Narok           | 3          | 7          | 10         | 30.0        | 3          | 7          | 10         | 30.0        |
| 034             | Kajiado         | 3          | 7          | 10         | 30.0        | 3          | 7          | 10         | 30.0        |
| 035             | Kericho         | 2          | 6          | 8          | 25.0        | 2          | 6          | 8          | 25.0        |
| 036             | Bomet           | 4          | 6          | 10         | 40.0        | 4          | 6          | 10         | 40.0        |
| 037             | Kakamega        | 3          | 5          | 8          | 37.5        | 3          | 5          | 8          | 37.5        |
| 038             | Vihiga          | 3          | 7          | 10         | 30.0        | 3          | 7          | 10         | 30.0        |
| 039             | Bungoma         | 3          | 8          | 11         | 27.3        | 3          | 8          | 11         | 27.3        |
| 040             | Busia           | 3          | 5          | 8          | 37.5        | 4          | 4          | 8          | 50.0        |
| 041             | Siaya           | 3          | 7          | 10         | 30.0        | 3          | 7          | 10         | 30.0        |
| 042             | Kisumu          | 2          | 6          | 8          | 25.0        | 2          | 5          | 7          | 28.6        |
| 043             | Homa Bay        | 3          | 7          | 10         | 30.0        | 2          | 7          | 9          | 22.2        |
| 044             | Migori          | 5          | 5          | 10         | 50.0        | 5          | 5          | 10         | 50.0        |
| 045             | Kisii           | 3          | 7          | 10         | 30.0        | 2          | 7          | 9          | 22.2        |
| 046             | Nyamira         | 2          | 7          | 9          | 22.2        | 2          | 7          | 9          | 22.2        |
| 047             | Nairobi City    | 2          | 6          | 8          | 25.0        | 4          | 6          | 10         | 40.0        |
| <b>National</b> |                 | <b>142</b> | <b>292</b> | <b>434</b> | <b>32.7</b> | <b>145</b> | <b>291</b> | <b>436</b> | <b>33.3</b> |

Source: County Governments (Executive)

\*Provisional

## Social Protection

**18.33.** The Government sustained social safety-nets for vulnerable persons through a three-pronged approach namely Social Assistance, Social Security and Health Insurance. The Government provided social assistance through cash transfers to Orphans and Vulnerable Children (OVCs), Persons with Severe Disability (PBSD), Older Persons and hunger-stricken households in four counties in the arid areas of Northern Kenya.

**18.34. Cash Transfer for Orphans and Vulnerable Children Fund (CT-OVC):** The number of caregivers, amount of funds allocated and disbursed to Orphans and Vulnerable Children from 2017/18 to 2021/22 are shown in Table 18.13. The amount

allocated is expected to increase by 11.3 per cent from KSh 7.1 billion in 2020/21 to KSh 7.9 billion in 2021/22. Similarly, the amount of funds disbursed for the programme is expected to increase by the same magnitude in 2021/22.

**18.35.** The number of beneficiary households is expected to decrease by 6.1 per cent from 293,665 in 2020/21 to 275,767 in 2021/22. Similarly, the number of women and men caregivers is expected to decrease by 6.1 per cent and 6.0 per cent, respectively, during the same period. In 2021/22, women are expected to account for 79.7 per cent of the total number of caregivers.

**Table 18.13: Disbursement of Funds to Orphans and Vulnerable Children, 2017/18- 2021/22**

| Financial Year | Number of Caregivers <sup>1</sup> |        |         | Amount in KSh Million  |           |
|----------------|-----------------------------------|--------|---------|------------------------|-----------|
|                | Female                            | Male   | Total   | Allocated <sup>*</sup> | Disbursed |
| 2017/18        | ..                                | ..     | 349,778 | 8,170.0                | 7,352.2   |
| 2018/19        | 271,288                           | 69,128 | 340,416 | 7,257.4                | 7,257.8   |
| 2019/20        | 234,761                           | 59,820 | 294,581 | 7,065.1                | 7,065.5   |
| 2020/21*       | 234,271                           | 59,394 | 293,665 | 7,063.2                | 7,064.0   |
| 2021/22**      | 219,917                           | 55,850 | 275,767 | 7,931.0                | 7,931.0   |

Source: State Department for Social Protection, Senior Citizens Affairs and Special Programs

.. Missing Data

\*Provisional

\*\*Estimates

<sup>1</sup>Revised

<sup>1</sup>Total number of caregivers is equivalent to the total number of beneficiary households

**18.36. The Older Persons Cash Transfer (OPCT):** Disbursement of funds to Older Persons from 2017/18 to 2021/22 is presented in Table 18.14. The funds allocated to the OPCT Programme are expected to decrease by 8.7 per cent from KSh 18.3 billion in 2020/21 to KSh 16.7 billion in 2021/22. Similarly, the amount disbursed is expected to decrease by the same magnitude from KSh 18.3 billion to KSh 16.7

billion during the same period. The total number of beneficiaries under the programme is also expected to reduce slightly from 763,553 in 2020/21 to 757,744 in 2021/22. Likewise, the number of women benefiting from the OPCT Programme is expected to decrease from 467,362 in 2020 to 465,498 in 2021 while the number of men is expected to decline by 3,945 in the same period.

**Table 18.14: Disbursement of Funds to Older Persons, 2017/18 - 2021/22**

| Financial Year | Number of Beneficiaries |         |         | Amount in KSh Million |           |
|----------------|-------------------------|---------|---------|-----------------------|-----------|
|                | Female                  | Male    | Total   | Allocated             | Disbursed |
| 2017/18        | ..                      | ..      | 792,268 | 14,452.4              | 11,245.8  |
| 2018/19        | 487,289                 | 310,122 | 797,411 | 17,930.8              | 18,201.2  |
| 2019/20        | 466,673                 | 296,965 | 763,638 | 17,170.0              | 18,367.0  |
| 2020/21*       | 467,362                 | 296,191 | 763,553 | 18,343.5              | 18,325.3  |
| 2021/22**      | 465,498                 | 292,246 | 757,744 | 16,673.5              | 16,673.5  |

Source: State Department for Social Protection, Senior Citizens Affairs and Special Programmes

.. Missing Data

\* Provisional

\*\* Estimates

**18.37. Cash Transfer to Persons with Severe Disabilities (PWSD-CT):** Disbursement of funds to Persons with Severe Disabilities for the period 2017/18 to 2021/22 is presented in Table 18.15. The amount allocated is expected to remain the same at

KSh 1.2 billion in 2021/22 while the amount disbursed is expected to increase by 46.0 per cent from KSh 814.8 million in 2020/21 to KSh 1.2 billion in 2021/22. The total number of caregivers is expected to grow marginally by 346 to 34,294 in 2021/22.

**Table 18.15: Disbursement of Funds to Persons with Severe Disabilities, 2017/18 - 2021/22**

| Financial Year | Number of Caregivers <sup>1</sup> |        |        | Amount in KSh Million |           |  |
|----------------|-----------------------------------|--------|--------|-----------------------|-----------|--|
|                | Female                            | Male   | Total  | Allocated             | Disbursed |  |
| 2017/18        | ..                                | ..     | 43,884 | 1,180.0               | 942.7     |  |
| 2018/19        | 8,583                             | 34,268 | 42,851 | 1,190.0               | 721.8     |  |
| 2019/20        | 6,817                             | 27,159 | 33,976 | 1,190.0               | 816.6     |  |
| 2020/21*       | 6,615                             | 27,333 | 33,948 | 1,190.0               | 814.8     |  |
| 2021/22**      | 6,918                             | 27,376 | 34,294 | 1,190.0               | 1,190.0   |  |

Source: State Department for Social Protection, Senior Citizens Affairs and Special Programs

.. Missing Data

\* Provisional

\*\* Estimates

<sup>1</sup>Total number of caregivers is equivalent to the total number of beneficiaries households

**18.38. Hunger Safety Net Program (HSNP):** This is an unconditional Government cash transfer programme implemented through the National Drought Management Authority (NDMA) in the counties of Turkana, Wajir, Mandera and Marsabit. The programme aims at reducing extreme hunger and vulnerability by delivering regular and unconditional cash transfers to targeted households.

**18.39.** Table 18.16 shows disbursement of funds by the Programme from 2017/18 to 2021/22. The amount allocated is expected to remain the same for 2021/22 as it was in 2020/21. However, the amount

disbursed is expected to increase by 29.4 per cent from KSh 3.4 billion in 2020/21 to KSh 4.4 billion in 2021/22. The number of beneficiary households is expected to increase by 60.1 per cent to 214,024 in 2021/22. Women who receive the benefits from the program on behalf of the households are expected to increase by 75.3 per cent from 81,570 in 2020/21 to 142,967 in 2021/22 while their male counterparts are expected to increase by 36.2 per cent from 52,152 in 2020/21 to 71,057 in 2021/22. It is expected that in 2021/22, females receiving the benefits on behalf of households will account for 66.8 per cent of the total recipients.

**Table 18.16: Disbursement of Funds for Hunger Safety Net Programme<sup>1</sup>, 2017/18 - 2021/22**

| Financial Year | Number of Beneficiary Households |                              |         | KSh Million |           |
|----------------|----------------------------------|------------------------------|---------|-------------|-----------|
|                | Female Recipients <sup>2</sup>   | Male Recipients <sup>2</sup> | Total   | Allocated   | Disbursed |
| 2017/18        | 116,132                          | 74,248                       | 190,380 | 3,298.3     | 3,496.0   |
| 2018/19        | 88,494                           | 56,578                       | 145,072 | 3,848.3     | 3,605.3   |
| 2019/20        | 77,487                           | 49,541                       | 127,028 | 3,848.3     | 3,398.2   |
| 2020/21*       | 81,570                           | 52,152                       | 133,722 | 4,396.6     | 3,413.1   |
| 2021/22**      | 142,967                          | 71,057                       | 214,024 | 4,396.6     | 4,396.6   |

Source: National Drought Management Authority, Ministry of Public Service, Gender, Senior Citizens Affairs and Special Programmes

\*Provisional

\*\* Estimates

<sup>1</sup> The programme runs in Wajir, Mandera, Marsabit and Turkana Counties

<sup>2</sup> Recipient receives the benefit on behalf of the household

#### **18.40. National Social Security Fund (NSSF):**

Table 18.17 presents details of annual membership, contributions and benefits by NSSF. In 2021, NSSF registered 21,680 new employers compared to 82,261 in 2020. The apparent huge drop in 2021 in the registration of employers was attributed to office access restrictions due to COVID-19 and the backlog of pending registration in 2019. Similarly, the number of newly registered employees went down by 19.1 per cent from 176,112 in 2020 to 142,495 in 2021. In 2021, newly registered male employees decreased by 23.4 per cent to 82,840 while newly

registered female employees reduced by 12.3 to 59,655. Newly registered voluntary members more than doubled from 112,580 in 2020 to 264,195 in 2021 due to increased sensitization through various channels and uptake of the e-registration service. Women voluntary members increased significantly by 67,273 to 113,355 while their male counterparts increased by 84,342 to 150,840 in 2021. Contributions and benefits paid dropped by 3.9 per cent and 23.0 per cent to KSh 14.2 billion and KSh 3.4 billion in 2021, respectively.

**Table 18.17: National Social Security Fund Annual Membership, Contributions and Benefits by Sex, 2017-2021**

|                                  | 2017           | 2018           | 2019           | 2020 <sup>1</sup> | 2021*          |
|----------------------------------|----------------|----------------|----------------|-------------------|----------------|
| New Registered Employers         | 40,557         | 44,205         | 28,080         | 82,261            | 21,680         |
| New Registered Employees         |                |                |                |                   |                |
| Female                           | 148,930        | 83,135         | 82,515         | 68,006            | 59,655         |
| Male                             | 216,531        | 132,510        | 120,071        | 108,106           | 82,840         |
| <b>Sub Total</b>                 | <b>365,461</b> | <b>215,645</b> | <b>202,586</b> | <b>176,112</b>    | <b>142,495</b> |
| New Registered Voluntary Members |                |                |                |                   |                |
| Female                           | 85,849         | 60,371         | 69,362         | 46,082            | 113,355        |
| Male                             | 133,080        | 99,421         | 107,473        | 66,498            | 150,840        |
| <b>Sub Total</b>                 | <b>218,929</b> | <b>159,792</b> | <b>176,835</b> | <b>112,580</b>    | <b>264,195</b> |
| Total Registered Members         | 584,390        | 375,437        | 379,421        | 288,692           | 406,690        |
| Contribution (KSh Million)       | 13,546.9       | 14,044.3       | 15,102.4       | 14,732.6          | 14,164.8       |
| Benefits Paid (KSh Million)      | 3,661.0        | 3,778.9        | 4,939.1        | 4,433.5           | 3,413.6        |

Source: National Social Security Fund

\* Provisional

<sup>1</sup> The increase is attributed to registration of employers that was done at the Registrar of Companies through e-citizen platform that could not be uploaded to the NSSF system in 2019

**18.41. Retirement Benefits:** Pension, social security, and individual savings are ways through which workers achieve retirement security. Pension helps workers to maintain their standard of living in retirement and savings provide important supplemental income for unforeseen expenses. The Retirement Benefits Authority (RBA) is established under the Retirement Benefits Act, No.3 of 1997, to regulate and supervise the establishment and management of retirement benefits schemes and to promote the development of the retirement benefits sector.

**18.42.** Table 18.18 presents details of contributions by employers and employees; benefits paid out and membership in pension schemes from 2017 to 2021. Information on Additional Voluntary Contributions (AVCs) by members and contributions towards Post-Retirement Medical Fund (PRMF), introduced to enable members to start contributing during their working life towards accessing a medical cover at retirement, is also presented. There has been a steady increase in the amount of pension contributions held in pension schemes over the years. Total pension contributions increased by 13.8 per cent from KSh 108.2 billion in 2020 to KSh 123.1 billion in 2021.

This was a higher increase compared to the growth of 5.8 per cent registered in 2020. Employer's contributions increased by 6.6 per cent from KSh 56.1 billion in 2020 to KSh 59.8 billion in 2021. Similarly, employers' special contributions went up from KSh 2.9 billion in 2020 to KSh 6.2 billion in 2021. Employee contributions increased by 17.6 per cent from KSh 47.8 billion in 2020 to KSh 56.2 billion in 2021, while AVCs by employees decreased by 43.0 per cent to KSh 765.0 million during the same period. Post-Retirement Medical Fund that was introduced in 2020 increased from KSh 7.0 million to KSh 101.4 million in 2021.

**18.43.** Benefits paid out increased by 13.1 per cent from KSh 89.2 billion in 2020 to KSh 100.9 billion in 2021. The amount of transfer out increased by 10.6 per cent to KSh 5.2 billion while transfer in reduced by 15.8 per cent to KSh 15.4 billion in 2021. Total membership in pension schemes increased slightly by 0.9 per cent to 1,018,814 in 2021. Active members increased by 3.9 per cent to 872,410 while inactive members reduced by 13.9 per cent to 146,404 in 2021.

**Table 18.18: Contributions, Benefits and Membership in Pension Schemes, 2017 – 2021**

|       | Employer | Employer Special | Contributions (KSh Million) |          |                                      | Post Retirement Medical Fund | Total   | Benefits (KSh Million) |             |              | Active  | Inactive  | Total | Members |
|-------|----------|------------------|-----------------------------|----------|--------------------------------------|------------------------------|---------|------------------------|-------------|--------------|---------|-----------|-------|---------|
|       |          |                  | Employee                    | Employee | Employee additional Voluntary (AVCs) |                              |         | Benefits Paid out      | Transfer in | Transfer out |         |           |       |         |
| 2017  | 43,103   | 3,270            | 38,598                      | 956      | -                                    | 85,926                       | 66,331  | 8,348                  | 5,059       | 683,156      | 94,572  | 777,728   |       |         |
| 2018  | 48,826   | 6,127            | 43,520                      | 653      | -                                    | 99,126                       | 70,754  | 16,021                 | 8,713       | 725,452      | 126,878 | 725,452   |       |         |
| 2019  | 50,599   | 4,723            | 46,401                      | 554      | -                                    | 102,276                      | 62,945  | 15,503                 | 7,750       | 837,428      | 133,417 | 837,428   |       |         |
| 2020  | 56,135   | 2,872            | 47,847                      | 1,341    | 7                                    | 108,202                      | 89,211  | 18,333                 | 4,675       | 840,066      | 170,095 | 1,010,161 |       |         |
| 2021* | 59,764   | 6,228            | 56,238                      | 765      | 101                                  | 123,097                      | 100,944 | 15,408                 | 5,171       | 872,410      | 146,404 | 1,018,814 |       |         |

Source: Retirement Benefits Authority (RBA)

SECTION



Emerging Issues



# Highlights of Demographic Indicators

## Overview

The 2019 Kenya Population and Housing Census (KPHC), whose theme was “Counting Our People for Sustainable Development and Devolution of Services” was conducted in August 2019, with the 24th/25th being the reference night. The main objective of the 2019 KPHC was to collect information on the size, composition, distribution, and socio-economic characteristics of the population. In-depth analysis of the census data was undertaken to provide more information on various aspects of the population. This chapter presents highlights of the three principal determinants of population change, that is, fertility, mortality, and migration. Also included is highlights on older persons.

19.2. Total Fertility Rate (TFR), which is the number of live births a woman would have by the end of her reproductive life span (15–49 years) was recorded as 3.4 births per 1,000 women, while Singulate Mean Age at Marriage (SMAM) was 27.3 years for males, and 23.1 years for females. Crude Birth Rate (CBR) was 27.9 births per 1,000 population whereas the proportion ever married for age 15–19 was 4.3 per cent for male and 11.2 per cent for females.

19.3. Infant Mortality Rate (IMR) stood at 35.5 deaths per 1,000 live births. Under-Five Mortality Rate was 52.2 deaths per 1,000 live births. Maternal Mortality Ratio (MMR) was 355 maternal deaths per 100,000 live births and Crude Death Rate (CDR) was 10.5 deaths per 1,000 population. Life expectancy at birth for females was 66.5 years compared to 60.6 years for males. This shows that, at birth, females are likely to live about six years longer than their male counterparts. It further shows that at 60 years the males are expected to live 14.2 more years compared with 17.2 more years for females.

19.4. Analysis of migration trends indicates that there were approximately 1.7 million people reported to have recently migrated 12 months prior to the census date while 9 million people were lifetime migrants in Kenya.

Immigrants into the country mostly came from East African Countries. Report on older persons shows that the older population in Kenya accounted for approximately 6 per cent of the total population where about 1.5 million were females and 1.2 million were males.

### Fertility and Nuptuality

**19.5.** The key indicators presented under fertility and nuptuality are proportions ever married (15-19 years), Singulate Mean Age at Marriage (SMAM), total fertility rates and crude birth rates. Information on fertility was solicited from all the female respondents age 12 years and above, by asking them birth history questions on, children ever born alive, children living in the household or elsewhere, children born alive who died, date of the last child born by sex and whether single or multiple births. The proportion of ever-married males age 15-19 increased from 2.9 per cent in 2009 to 4.3 per cent in 2019, while that

of females declined to 11.2 per cent in 2019 from 18.8 per cent in 2009. The county with the highest proportions of ever married males between ages 15-19 was Mandera while Tana River had the highest proportions of ever-married females.

**19.6.** In 2019, the SMAM which is an indicator of the timing of the first marriage, was 27.3 years for males and 23.1 years for females an indication that young people have lately been delaying entry into marriage. SMAM is higher for males than females in all counties. The indicators of current fertility are the CBR and TFR. The estimated CBR was 27.9 births per 1,000 population with the lowest CBR being in Makueni at 19.8 births per 1,000 population and the highest being in Mandera at 49.4 births per 1,000 population. The TFR at national level declined from 4.8 births in 2009 to 3.4 births in 2019. However, TFR has remained high in Mandera, Wajir, and Marsabit counties.

**Table 19.1: Fertility and Nuptuality by County, 2019**

| Residence/ County | Per cent ever married<br>(age 15-19) |        | SMAM (Years) |        | Crude Birth<br>Rate | Total Fertility Rate |
|-------------------|--------------------------------------|--------|--------------|--------|---------------------|----------------------|
|                   | Male                                 | Female | Male         | Female |                     |                      |
| Kenya             | 4.3                                  | 11.2   | 27.3         | 23.1   | 27.9                | 3.4                  |
| Mombasa           | 2.4                                  | 10.3   | 27.4         | 23.5   | 29.3                | 2.9                  |
| Kwale             | 3.4                                  | 15.9   | 26.9         | 22.2   | 32.3                | 4.3                  |
| Kilifi            | 3.0                                  | 11.3   | 26.9         | 23.0   | 29.0                | 3.7                  |
| Tana River        | 5.4                                  | 25.6   | 25.3         | 20.4   | 35.0                | 5.2                  |
| Lamu              | 3.3                                  | 14.2   | 26.7         | 22.1   | 28.0                | 4.0                  |
| Taita-Taveta      | 2.6                                  | 9.9    | 28.5         | 23.0   | 25.2                | 3.4                  |
| Garissa           | 8.7                                  | 17.6   | 26.8         | 22.6   | 31.5                | 4.4                  |
| Wajir             | 8.8                                  | 19.6   | 25.6         | 21.9   | 44.2                | 6.7                  |
| Mandera           | 9.6                                  | 23.9   | 25.0         | 21.4   | 49.4                | 8.0                  |
| Marsabit          | 6.6                                  | 18.5   | 28.0         | 22.3   | 44.3                | 7.0                  |
| Isiolo            | 5.7                                  | 18.3   | 27.0         | 22.1   | 27.9                | 4.1                  |
| Meru              | 6.1                                  | 15.1   | 27.5         | 22.8   | 23.1                | 2.9                  |
| Tharaka-Nithi     | 4.2                                  | 9.1    | 27.9         | 23.5   | 21.6                | 2.9                  |
| Embu              | 3.9                                  | 9.6    | 28.7         | 23.4   | 22.3                | 2.9                  |
| Kitui             | 3.9                                  | 7.8    | 28.4         | 23.1   | 22.7                | 3.2                  |
| Machakos          | 3.6                                  | 7.6    | 28.6         | 24.0   | 22.1                | 2.7                  |

**Table 19.1: Fertility and Nuptiality by County, 2019 (Continued)**

| Residence/ County | Per cent ever married<br>(age 15-19) |        | SMAM (Years) |        | Crude Birth<br>Rate | Total Fertility Rate |
|-------------------|--------------------------------------|--------|--------------|--------|---------------------|----------------------|
|                   | Male                                 | Female | Male         | Female |                     |                      |
| Makueni           | 3.1                                  | 5.8    | 29.4         | 23.7   | 19.8                | 2.8                  |
| Nyandarua         | 2.7                                  | 6.7    | 28.6         | 22.8   | 23.7                | 3.4                  |
| Nyeri             | 2.7                                  | 5.7    | 29.4         | 23.6   | 20.8                | 2.9                  |
| Kirinyaga         | 4.2                                  | 9.5    | 28.2         | 22.9   | 21.0                | 2.7                  |
| Murang'a          | 3.1                                  | 8.1    | 29.0         | 23.3   | 21.9                | 3.2                  |
| Kiambu            | 2.4                                  | 6.8    | 27.8         | 23.7   | 27.0                | 2.7                  |
| Turkana           | 5.8                                  | 14.3   | 27.5         | 22.9   | 45.7                | 6.4                  |
| West Pokot        | 7.8                                  | 19.1   | 25.4         | 21.5   | 36.5                | 5.6                  |
| Samburu           | 5.1                                  | 24.8   | 27.6         | 21.2   | 33.1                | 4.9                  |
| Trans Nzoia       | 3.4                                  | 9.7    | 27.0         | 23.1   | 27.2                | 3.7                  |
| Uasin Gishu       | 3.2                                  | 6.7    | 28.0         | 24.0   | 26.5                | 3.0                  |
| Elgeyo/Marakwet   | 5.9                                  | 9.6    | 26.8         | 23.5   | 26.9                | 3.7                  |
| Nandi             | 3.9                                  | 7.6    | 28.1         | 23.7   | 24.7                | 3.2                  |
| Baringo           | 5.7                                  | 12.2   | 27.1         | 23.1   | 27.4                | 4.0                  |
| Laikipia          | 3.2                                  | 11.3   | 27.8         | 22.4   | 28.0                | 3.7                  |
| Nakuru            | 2.8                                  | 8.8    | 27.3         | 22.9   | 28.1                | 3.4                  |
| Narok             | 5.5                                  | 19.9   | 25.7         | 21.1   | 32.9                | 4.6                  |
| Kajiado           | 4.1                                  | 13.3   | 27.1         | 23.1   | 30.5                | 3.3                  |
| Kericho           | 4.7                                  | 11.2   | 27.8         | 22.9   | 25.1                | 3.1                  |
| Bomet             | 5.5                                  | 12.8   | 27.5         | 22.8   | 26.2                | 3.3                  |
| Kakamega          | 4.0                                  | 9.5    | 26.7         | 23.2   | 25.0                | 3.4                  |
| Vihiga            | 3.3                                  | 7.3    | 28.0         | 24.2   | 22.8                | 3.5                  |
| Bungoma           | 5.5                                  | 11.6   | 26.3         | 22.8   | 26.4                | 3.6                  |
| Busia             | 3.8                                  | 9.8    | 26.3         | 23.2   | 26.8                | 3.5                  |
| Siaya             | 2.8                                  | 8.4    | 27.0         | 23.2   | 26.6                | 3.5                  |
| Kisumu            | 2.9                                  | 8.6    | 27.2         | 23.7   | 27.5                | 3.1                  |
| Homabay           | 4.3                                  | 12.1   | 26.2         | 22.2   | 28.3                | 3.6                  |
| Migori            | 4.8                                  | 16.1   | 25.5         | 21.6   | 30.8                | 3.9                  |
| Kisii             | 5.3                                  | 12.0   | 26.2         | 22.8   | 23.5                | 2.8                  |
| Nyamira           | 5.0                                  | 10.7   | 26.8         | 22.8   | 21.7                | 2.7                  |
| Nairobi City      | 1.8                                  | 7.8    | 27.5         | 23.7   | 29.0                | 2.5                  |

## Mortality

**19.7.** The key indicators on mortality are infant mortality, under-five mortality, life expectancies at birth and at age 60, maternal mortality and crude death rates, and their differentials across counties. The information was collected from questions on children ever born, orphanhood and recent deaths in the households. Table 19.2 presents mortality indicators by county. At national level, infant mortality was 35.5 deaths per 1,000 live births while under-five mortality was 52.0 deaths per 1,000 live births. Migori county recorded the highest infant mortality rate at 67.2 per 1,000 live births, followed by Homa Bay at 57.5 per 1,000 live births. Migori recorded 107.2 under-five deaths per 1,000 live births, which was the highest in the country.

**19.8.** Nationally, life expectancy at birth is estimated to be 60.6 for males and 66.5 for females. This shows that females live longer than males. However, in Isiolo county, the results indicate that males live longer than the females. The lowest life expectancies at birth for males was in Homa Bay and Migori counties both at 50.5 years while for females Tana River had the lowest at 58.6 years. Females in Nyeri county had the highest life expectancies of 75.8 years. Expectation of life at age 60 is the average

number of years that a person who has attained age 60 is expected to live, if age-specific mortality levels remain constant. Nationally, females have a higher expectation of life at 17.2 years after attaining age 60 years than males at 14.2 years. Mombasa, Lamu and Bungoma counties recorded the highest expectation of life at age 60 while Machakos, Homa Bay and Kajiado counties recorded the least for the males. For females, Nyeri, Kiambu, and Mombasa counties have the highest expectation of life at age 60, while Isiolo, Turkana, Kilifi and Tana River have the lowest.

**19.9.** Six counties had maternal mortality ratio above 500 maternal deaths per 100,000 live births with Garissa having the highest rate of 641 maternal deaths per 100,000 live births. The lowest rate was in Nyeri where the ratio was 67 maternal deaths per 100,000 live births, which is within the recommended Sustainable Development Goal 3 target of less than 70 maternal deaths per 100,000 live births. Crude Death Rate was nationally estimated at 10.5 deaths per 1,000 population. At county level, Makueni had the lowest CDR at 5.5 deaths per 1,000 population while Siaya had the highest at 15.5 deaths per 1,000 population.

**Table 19.2: Mortality by County, 2019**

| COUNTY           | “IMR<br>(Per 1,000<br>Live<br>Births)” | “U5MR<br>(Per 1,000<br>Live<br>Births)” | Life Expectancy at<br>birth (Years) |         | Life Expectancy at<br>60 (Years) |         | “MMR<br>(Per<br>100,000<br>Live<br>Births)” | “CDR<br>(Per 1,000<br>Popula-<br>tion)” |
|------------------|--|---|-------------------------------------|---------|----------------------------------|---------|---|---|
|                  |  |   | Males                               | Females | Male                             | Females |   |   |
| Kenya            | 35.5                                   | 52.0                                    | 60.6                                | 66.5    | 14.2                             | 17.2    | 355   | 10.5                                    |
| Mombasa          | 30.5                                   | 49.2                                    | 65.7                                | 71.1    | 17.7                             | 20.0    | 190   | 9.7                                     |
| Kwale            | 35.7                                   | 55.5                                    | 58.2                                | 60.7    | 14.0                             | 16.2    | 464   | 8.2                                     |
| Kilifi           | 40.0                                   | 62.5                                    | 57.8                                | 59.2    | 14.1                             | 15.9    | 532   | 10.2                                    |
| Tana River       | 47.5                                   | 73.5                                    | 56.2                                | 58.6    | 14.0                             | 15.9    | 586   | 12.9                                    |
| Lamu             | 37.5                                   | 60.2                                    | 64.1                                | 68.9    | 17.7                             | 18.9    | 306   | 7.0                                     |
| Taita Taveta     | 26.3                                   | 42.4                                    | 61.2                                | 69.2    | 15.7                             | 18.7    | 257   | 13.6                                    |
| Garissa          | 42.1                                   | 64.6                                    | 57.4                                | 60.5    | 14.1                             | 16.2    | 641   | 6.5                                     |
| Wajir            | 41.9                                   | 63.5                                    | 56.7                                | 62.0    | 14.1                             | 16.4    | 403   | 11.6                                    |
| Mandera          | 41.3                                   | 63.5                                    | 57.3                                | 60.5    | 14.1                             | 16.2    | 385   | 9.1                                     |
| Marsabit         | 26.4                                   | 42.5                                    | 57.9                                | 62.6    | 14.7                             | 16.0    | 321   | 12.9                                    |
| Isiolo           | 35.1                                   | 56.6                                    | 60.1                                | 59.6    | 15.7                             | 15.4    | 451   | 10.6                                    |
| Meru             | 33.4                                   | 53.9                                    | 62.2                                | 68.2    | 16.4                             | 18.7    | 291   | 8.2                                     |
| Tharaka-Nithi    | 18.5                                   | 29.8                                    | 63.8                                | 70.3    | 16.2                             | 18.8    | 332   | 10.6                                    |
| Embu             | 26.3                                   | 42.4                                    | 58.7                                | 70.1    | 14.9                             | 19.2    | 244   | 7.5                                     |
| Kitui            | 24.9                                   | 40.1                                    | 55.7                                | 68.8    | 14.1                             | 18.4    | 253   | 7.4                                     |
| Machakos         | 28.5                                   | 44.0                                    | 57.9                                | 63.9    | 13.7                             | 16.8    | 398   | 7.4                                     |
| Makueni          | 30.9                                   | 48.0                                    | 58.1                                | 62.4    | 13.8                             | 16.5    | 479   | 5.5                                     |
| Nyandarua        | 30.1                                   | 46.5                                    | 58.0                                | 63.2    | 13.8                             | 16.6    | 466   | 11.6                                    |
| Nyeri            | 28.3                                   | 41.5                                    | 66.4                                | 75.8    | 16.3                             | 22.2    | 67  | 10.2                                    |
| Kirinyaga        | 24.1                                   | 39.0                                    | 59.9                                | 71.1    | 15.1                             | 19.7    | 248   | 10.0                                    |
| Murang'a         | 30.6                                   | 46.5                                    | 58.1                                | 64.7    | 13.9                             | 17.0    | 469   | 10.8                                    |
| Kiambu           | 19.3                                   | 31.2                                    | 60.8                                | 72.8    | 15.2                             | 20.2    | 171   | 8.8                                     |
| Turkana          | 39.8                                   | 64.2                                    | 55.9                                | 60.0    | 14.5                             | 15.7    | 381   | 6.2                                     |
| West Pokot       | 38.0                                   | 58.5                                    | 57.6                                | 61.1    | 14.1                             | 16.3    | 473   | 12.0                                    |
| Samburu          | 24.1                                   | 39.0                                    | 58.5                                | 67.4    | 14.7                             | 18.0    | 275   | 11.2                                    |
| Trans Nzoia      | 31.6                                   | 51.1                                    | 64.4                                | 67.9    | 17.1                             | 18.6    | 287   | 8.9                                     |
| Uasin Gishu      | 24.7                                   | 39.8                                    | 63.6                                | 71.7    | 16.5                             | 19.9    | 204   | 11.5                                    |
| Elgeyo Marak-wet | 32.7                                   | 50.5                                    | 57.9                                | 62.5    | 13.9                             | 16.5    | 435   | 8.1                                     |
| Nandi            | 26.4                                   | 42.6                                    | 60.0                                | 70.4    | 15.3                             | 19.4    | 264   | 12.8                                    |
| Baringo          | 26.4                                   | 42.4                                    | 65.4                                | 68.9    | 17.4                             | 18.5    | 274   | 6.9                                     |

**Table 19.2: Mortality by County, 2019 (Continued)**

| COUNTY   | “IMR<br>(Per 1,000<br>Live<br>Births)” | “U5MR<br>(Per 1,000<br>Live<br>Births)” | Life Expectancy at<br>birth (Years) |         | Life Expectancy at<br>60 (Years) |         | “MMR<br>(Per 100,000<br>Live<br>Births)” | “CDR<br>(Per 1,000<br>Popula-<br>tion)” |
|----------|--|---|-------------------------------------|---------|----------------------------------|---------|--|---|
|          |  |   | Males                               | Females | Male                             | Females |  |   |
| Laikipia | 17.3                                   | 27.9                                    | 59.2                                | 71.9    | 14.7                             | 19.5    | 182                                      | 11.6                                    |
| Nakuru   | 32.8                                   | 52.9                                    | 58.3                                | 69.1    | 15.0                             | 19.2    | 261                                      | 9.5                                     |
| Narok    | 37.2                                   | 57.0                                    | 57.8                                | 61.9    | 14.1                             | 16.4    | 522                                      | 14.1                                    |
| Kajiado  | 29.4                                   | 45.5                                    | 57.8                                | 63.5    | 13.7                             | 16.7    | 495                                      | 8.1                                     |
| Kericho  | 31.1                                   | 48.0                                    | 58.1                                | 62.9    | 13.9                             | 16.6    | 543                                      | 13.0                                    |
| Bomet    | 33.2                                   | 50.5                                    | 58.1                                | 63.6    | 14.0                             | 16.8    | 554                                      | 12.9                                    |
| Kakamega | 37.3                                   | 60.2                                    | 63.4                                | 66.1    | 17.1                             | 18.0    | 279                                      | 13.9                                    |
| Vihiga   | 45.4                                   | 73.4                                    | 59.8                                | 62.1    | 15.8                             | 17.0    | 393                                      | 9.4                                     |
| Bungoma  | 30.5                                   | 49.2                                    | 65.5                                | 68.2    | 17.6                             | 18.6    | 238                                      | 10.2                                    |
| Busia    | 40.9                                   | 65.9                                    | 62.3                                | 66.2    | 16.8                             | 18.2    | 273                                      | 9.2                                     |
| Siaya    | 41.8                                   | 67.4                                    | 53.4                                | 61.6    | 13.9                             | 16.3    | 424                                      | 15.5                                    |
| Kisumu   | 39.1                                   | 63.1                                    | 54.0                                | 63.1    | 14.0                             | 16.8    | 343                                      | 7.0                                     |
| Homa Bay | 57.5                                   | 92.2                                    | 50.5                                | 60.2    | 13.7                             | 16.5    | 516                                      | 8.7                                     |
| Migori   | 67.2                                   | 107.2                                   | 50.5                                | 60.6    | 14.0                             | 17.0    | 412                                      | 12.3                                    |
| Kisii    | 25.9                                   | 41.7                                    | 56.1                                | 66.9    | 14.2                             | 17.7    | 325                                      | 9.8                                     |
| Nyamira  | 27.1                                   | 43.8                                    | 55.3                                | 66.2    | 14.0                             | 17.5    | 349                                      | 7.6                                     |
| Nairobi  | 35.7                                   | 57.7                                    | 62.6                                | 65.2    | 16.6                             | 17.5    | 326                                      | 9.2                                     |

## Migration

**19.10.** The key migration variables collected during the 2019 census were place of birth, previous residence, duration of residence, place of enumeration and emigrants. Table 19.3. presents recent county in-migration, out-migration, and net migration by sex. Nairobi County had the highest number of recent

in-migrants of about 641 thousand, followed by Kiambu with about 319 thousand. Mandera County had the lowest number of recent in-migrants. Generally, there were more female recent migrants than male recent migrants across all counties.

**Table 19.3: In-migration, out-migration, and net migration of recent migrants, 2019**

| Counties         | Recent Total |           |         | Recent Male |           |         | Recent Female |           |         |
|------------------|--------------|-----------|---------|-------------|-----------|---------|---------------|-----------|---------|
|                  | IN           | OUT       | NET     | IN          | OUT       | NET     | IN            | OUT       | NET     |
| TOTAL            | 3,397,649    | 3,397,649 | 0       | 1,545,662   | 1,545,662 | 0       | 1,851,821     | 1,851,821 | 0       |
| Mombasa          | 170,309      | 96,689    | 73,620  | 81,193      | 47,451    | 33,742  | 89,110        | 49,235    | 39,875  |
| Kwale            | 30,591       | 39,669    | -9,078  | 14,168      | 18,918    | -4,750  | 16,422        | 20,750    | -4,328  |
| Kilifi           | 51,685       | 59,453    | -7,768  | 24,302      | 28,687    | -4,385  | 27,383        | 30,760    | -3,377  |
| Tana River       | 11,494       | 12,039    | -545    | 6,362       | 6,353     | 9       | 5,131         | 5,685     | -554    |
| Lamu             | 16,035       | 8,952     | 7,083   | 9,926       | 4,306     | 5,620   | 6,108         | 4,644     | 1,464   |
| TaitaTaveta      | 26,567       | 27,308    | -741    | 13,321      | 11,926    | 1,395   | 13,246        | 15,382    | -2,136  |
| Garissa          | 9,808        | 20,804    | -10,996 | 5,797       | 10,775    | -4,978  | 4,010         | 10,026    | -6,016  |
| Wajir            | 4,999        | 9,915     | -4,916  | 3,183       | 5,244     | -2,061  | 1,814         | 4,670     | -2,856  |
| Mandera          | 3,437        | 16,185    | -12,748 | 2,518       | 8,767     | -6,249  | 919           | 7,418     | -6,499  |
| Marsabit         | 4,827        | 11,742    | -6,915  | 2,982       | 6,338     | -3,356  | 1,844         | 5,404     | -3,560  |
| Isiolo           | 14,080       | 13,278    | 802     | 7,580       | 7,145     | 435     | 6,499         | 6,132     | 367     |
| Meru             | 48,884       | 76,366    | -27,482 | 25,496      | 32,461    | -6,965  | 23,387        | 43,902    | -20,515 |
| Tharaka/Nithi    | 17,711       | 23,259    | -5,548  | 7,608       | 11,235    | -3,627  | 10,103        | 12,024    | -1,921  |
| Embu             | 42,085       | 41,900    | 185     | 19,862      | 17,773    | 2,089   | 22,218        | 24,126    | -1,908  |
| Kitui            | 30,620       | 102,671   | -72,051 | 14,665      | 49,042    | -34,377 | 15,954        | 53,624    | -37,670 |
| Machakos         | 128,767      | 116,332   | 12,435  | 60,909      | 52,288    | 8,621   | 67,855        | 64,039    | 3,816   |
| Makueni          | 48,203       | 91,667    | -43,464 | 22,603      | 41,484    | -18,881 | 25,599        | 50,182    | -24,583 |
| Nyandarua        | 71,792       | 65,801    | 5,991   | 32,962      | 29,019    | 3,943   | 38,828        | 36,778    | 2,050   |
| Nyeri            | 82,952       | 91,858    | -8,906  | 38,693      | 41,057    | -2,364  | 44,254        | 50,799    | -6,545  |
| Kirinyaga        | 45,451       | 38,276    | 7,175   | 20,192      | 16,221    | 3,971   | 25,258        | 22,055    | 3,203   |
| Murang'a         | 90,662       | 116,733   | -26,071 | 40,810      | 50,152    | -9,342  | 49,846        | 66,575    | -16,729 |
| Kiambu           | 319,153      | 144,977   | 174,176 | 143,279     | 65,037    | 78,242  | 175,840       | 79,932    | 95,908  |
| Turkana          | 11,910       | 13,838    | -1,928  | 6,709       | 7,617     | -908    | 5,201         | 6,221     | -1,020  |
| West Pokot       | 7,969        | 9,753     | -1,784  | 3,854       | 4,737     | -883    | 4,115         | 5,016     | -901    |
| Samburu          | 7,884        | 11,147    | -3,263  | 4,513       | 6,144     | -1,631  | 3,371         | 5,001     | -1,630  |
| Trans Nzoia      | 76,823       | 71,411    | 5,412   | 34,736      | 32,151    | 2,585   | 42,084        | 39,256    | 2,828   |
| UasinGishu       | 130,279      | 74,940    | 55,339  | 61,349      | 34,572    | 26,777  | 68,925        | 40,365    | 28,560  |
| Elkeyo/Marak-wet | 15,795       | 31,513    | -15,718 | 7,457       | 14,249    | -6,792  | 8,338         | 17,263    | -8,925  |
| Nandi            | 43,239       | 53,513    | -10,274 | 19,015      | 23,312    | -4,297  | 24,222        | 30,197    | -5,975  |
| Baringo          | 16,104       | 46,772    | -30,668 | 7,912       | 22,091    | -14,179 | 8,191         | 24,678    | -16,487 |
| Laikipia         | 56,085       | 45,645    | 10,440  | 27,532      | 21,620    | 5,912   | 28,552        | 24,024    | 4,528   |
| Nakuru           | 241,350      | 159,296   | 82,054  | 116,410     | 76,011    | 40,399  | 124,929       | 83,280    | 41,649  |
| Narok            | 57,522       | 38,284    | 19,238  | 28,154      | 19,537    | 8,617   | 29,366        | 18,747    | 10,619  |
| Kajiado          | 139,996      | 39,263    | 100,733 | 67,791      | 19,919    | 47,872  | 72,199        | 19,342    | 52,857  |
| Kericho          | 45,104       | 56,902    | -11,798 | 20,011      | 25,595    | -5,584  | 25,089        | 31,306    | -6,217  |

**Table 19.3: In-migration, out-migration, and net migration of recent migrants, 2019 (Continued)**

| Counties     | Recent Total |         |         | Recent Male |         |         | Recent Female |         |         |
|--------------|--------------|---------|---------|-------------|---------|---------|---------------|---------|---------|
|              | IN           | OUT     | NET     | IN          | OUT     | NET     | IN            | OUT     | NET     |
| Bomet        | 29,014       | 58,865  | -29,851 | 12,184      | 27,611  | -15,427 | 16,830        | 31,250  | -14,420 |
| Kakamega     | 90,650       | 185,886 | -95,236 | 34,487      | 81,427  | -46,940 | 56,160        | 104,444 | -48,284 |
| Vihiga       | 35,893       | 93,139  | -57,246 | 13,803      | 39,683  | -25,880 | 22,089        | 53,451  | -31,362 |
| Bungoma      | 58,801       | 130,973 | -72,172 | 22,945      | 58,983  | -36,038 | 35,855        | 71,973  | -36,118 |
| Busia        | 41,736       | 83,545  | -41,809 | 16,218      | 35,803  | -19,585 | 25,518        | 47,738  | -22,220 |
| Siaya        | 72,861       | 99,684  | -26,823 | 30,107      | 40,415  | -10,308 | 42,752        | 59,266  | -16,514 |
| Kisumu       | 103,774      | 114,847 | -11,073 | 42,440      | 46,765  | -4,325  | 61,330        | 68,079  | -6,749  |
| Homa Bay     | 69,267       | 92,039  | -22,772 | 22,848      | 35,949  | -13,101 | 46,416        | 56,083  | -9,667  |
| Migori       | 55,664       | 61,345  | -5,681  | 18,751      | 25,191  | -6,440  | 36,911        | 36,153  | 758     |
| Kisii        | 44,260       | 140,434 | -96,174 | 18,864      | 64,994  | -46,130 | 25,393        | 75,434  | -50,041 |
| Nyamira      | 33,740       | 46,951  | -13,211 | 12,961      | 21,545  | -8,584  | 20,779        | 25,403  | -4,624  |
| Nairobi City | 641,817      | 411,790 | 230,027 | 296,200     | 198,062 | 98,138  | 345,578       | 213,709 | 131,869 |

**Recent internal migrants by major urban centres**

**19.11.** Table 19.4 presents the distribution of recent migrants by major urban centres. Nairobi and Mombasa were the most popular urban centres of destination for recent migrants accounting for 48.4 per cent and 12.5 per cent, respectively. Women accounted for more than 50 percent in all the major urban centres.

**Table 19.4: Distribution of Recent Migrants by Major Urban Centres, 2019**

| URBAN CENTRES | Numbers   | Per cent |      |        |
|---------------|-----------|----------|------|--------|
|               |           | Total    | Male | Female |
| TOTAL         | 1,648,090 | 100.0    | 47.0 | 53.0   |
| Nairobi City  | 797,357   | 48.4     | 46.8 | 53.1   |
| Mombasa       | 205,644   | 12.5     | 48.1 | 51.9   |
| Nakuru        | 88,058    | 5.3      | 47.4 | 52.6   |
| Ruiru         | 99,330    | 6.0      | 46.3 | 53.7   |
| Eldoret       | 87,572    | 5.3      | 47.5 | 52.5   |
| Kisumu        | 61,164    | 3.7      | 46.8 | 53.2   |
| Kikuyu        | 57,294    | 3.5      | 45.1 | 54.9   |
| Thika         | 45,471    | 2.8      | 46.2 | 53.7   |
| Naivasha      | 36,805    | 2.2      | 47.9 | 52.1   |
| Karuri        | 35,685    | 2.2      | 44.9 | 55.1   |
| Ongata Rongai | 38,910    | 2.4      | 47.1 | 52.9   |
| Kitale        | 23,004    | 1.4      | 48.7 | 51.3   |
| Juja          | 31,242    | 1.9      | 47.6 | 52.4   |
| Kitengela     | 40,554    | 2.5      | 46.9 | 53.1   |

### Lifetime Migrants by Major Urban Centres

**19.12.** Table 19.5 shows the distribution of lifetime migrants by major urban centres. Lifetime migrants make up 56.9 percent of the major urban population areas. The most popular destination for lifetime mi-

grants were Nairobi and Mombasa accounting for 53.1 percent and 11.9 percent, respectively. Women accounted for about more than half of migrants in all major urban centers except Mombasa.

**Table 19.5: Distribution of Lifetime Migrants by Major Urban Centres, 2019**

|               | Total Population   |           |           | Total Lifetime Migrants |           |           |
|---------------|--------------------|-----------|-----------|-------------------------|-----------|-----------|
|               | Total <sup>1</sup> | Male      | Female    | Total <sup>1</sup>      | Male      | Female    |
| Total         | 9,006,534          | 4,447,330 | 4,558,820 | 5,124,363               | 2,517,279 | 2,606,839 |
| Nairobi City  | 4,323,552          | 2,142,347 | 2,181,011 | 2,722,296               | 1,344,839 | 1,377,328 |
| Mombasa       | 1,188,639          | 596,420   | 592,202   | 610,700                 | 307,671   | 303,019   |
| Nakuru        | 560,555            | 273,793   | 286,730   | 243,299                 | 116,905   | 126,379   |
| Ruiru         | 486,294            | 236,240   | 250,023   | 297,221                 | 143,011   | 154,187   |
| Eldoret       | 466,693            | 230,933   | 235,745   | 236,255                 | 116,606   | 119,639   |
| Kisumu        | 389,985            | 189,913   | 200,062   | 148,899                 | 71,296    | 77,600    |
| Kikuyu        | 322,574            | 156,319   | 166,238   | 143,097                 | 66,593    | 76,494    |
| Thika         | 243,617            | 118,797   | 124,805   | 141,146                 | 68,210    | 72,927    |
| Naivasha      | 193,264            | 94,969    | 98,277    | 100,725                 | 48,871    | 51,838    |
| Karuri        | 193,852            | 94,562    | 99,280    | 86,596                  | 41,028    | 45,564    |
| Ongata Rongai | 171,080            | 84,045    | 87,028    | 124,676                 | 60,643    | 64,028    |
| Kitale        | 158,726            | 78,037    | 80,685    | 58,899                  | 28,732    | 30,166    |
| Juja          | 155,325            | 76,870    | 78,446    | 89,516                  | 44,331    | 45,178    |
| Kitengela     | 152,378            | 74,085    | 78,288    | 121,038                 | 58,543    | 62,492    |

<sup>1</sup>Includes Intersex

### Countries of Origin for Immigrants to Kenya

**19.13** Table 19.6 presents the top ten countries of origin of immigrants to Kenya. Uganda contributed 22.1 percent, followed by Somalia with 15.1 per cent, and Tanzania with 12.3 per cent.

**Table 19.6: Top Ten Countries of Immigrants' Origin, 2019**

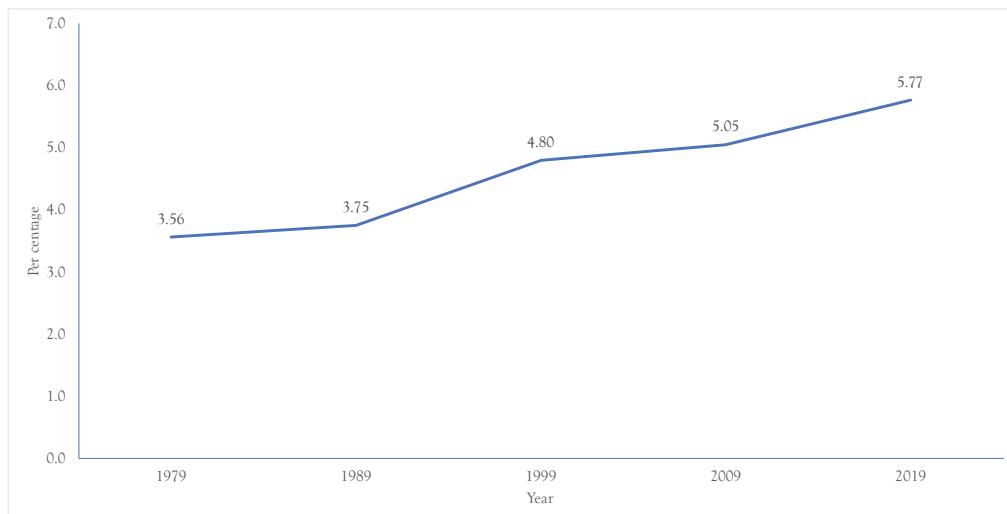
| Country     | Both Sexes | Male    | Female  | Male | Female |
|-------------|------------|---------|---------|------|--------|
| Total       | 419,135    | 206,591 | 212,544 | 49.3 | 50.7   |
| Uganda      | 92,636     | 38,823  | 53,813  | 18.8 | 25.3   |
| Somalia     | 63,492     | 27,453  | 36,039  | 13.3 | 17.0   |
| Tanzania    | 51,603     | 25,430  | 26,173  | 12.3 | 12.3   |
| South Sudan | 51,041     | 25,552  | 25,489  | 12.4 | 12.0   |
| India       | 34,362     | 18,276  | 16,086  | 8.8  | 7.6    |
| DR Congo    | 20,268     | 10,922  | 9,346   | 5.3  | 4.4    |
| Ethiopia    | 13,068     | 6,646   | 6,422   | 3.2  | 3.0    |
| Burundi     | 12,125     | 7,980   | 4,145   | 3.9  | 2.0    |
| Congo Rep.  | 11,023     | 5,976   | 5,047   | 2.9  | 2.4    |
| USA         | 9,065      | 4,568   | 4,497   | 2.2  | 2.1    |

### The Older Population

**19.14.** The United Nations defines older persons as those aged 60 years and above. In Kenya, the older population has increased proportionately to the general population from 3.6 per cent in 1979 to 5.8 per cent in 2019 as presented in the Figure

**19.1.** This shows that the population of Kenya is gradually aging,a process by which the share of the older individuals to the population becomes proportionally larger.

**Figure 19.1: Trend in Proportion of Older Population in Kenya, 1979 – 2019**



### Distribution of the Older Population by Age and Sex

**19.15.** The 2019 Population and Housing Census shows that there were 2.7 million older persons in Kenya: of which about 1.5 million were females and 1.2 million were males. This population decreased

with increasing age from about 32 per cent for 60-64 years' age group to less than 1.0 per cent for 100 years and above.

**Table 19.7: Distribution of Older Population by 5 Year Age Groups and Sex, 2019**

| Age Group    | Population       |                  |                  | Percent    |             |             |
|--------------|------------------|------------------|------------------|------------|-------------|-------------|
|              | Total            | Male             | Female           | Total      | Males       | Females     |
| 60-64        | 863,054          | 414,915          | 448,115          | 31.7       | 33.6        | 30.1        |
| 65-69        | 653,672          | 308,507          | 345,152          | 24.0       | 25.0        | 23.2        |
| 70-74        | 511,117          | 233,921          | 277,182          | 18.8       | 19.0        | 18.6        |
| 75-79        | 281,431          | 118,302          | 163,125          | 10.3       | 9.6         | 11.0        |
| 80-84        | 202,652          | 82,299           | 120,351          | 7.5        | 6.7         | 8.1         |
| 85-89        | 112,946          | 43,594           | 69,348           | 4.2        | 3.5         | 4.7         |
| 90-94        | 54,776           | 19,089           | 35,684           | 2.0        | 1.5         | 2.4         |
| 95-99        | 27,777           | 9,644            | 18,133           | 1.0        | 0.7         | 1.2         |
| 100+         | 14,034           | 3,886            | 10,148           | 0.5        | 0.3         | 0.7         |
| <b>Total</b> | <b>2,721,459</b> | <b>1,234,157</b> | <b>1,487,238</b> | <b>100</b> | <b>45.4</b> | <b>54.6</b> |

### Distribution of the Share of Older Population to the Total Population by County

**19.16.** The distribution of older population varied by 9.0 per cent from 2.0 per cent in Nairobi City and Mandera counties to 11.3 per cent in Murang'a County. The other counties with a high proportion of older population were Nyeri and Vihiga counties with 10.7 and 10.5 per cent, respectively, while Wajir and Garissa had the lowest proportion of older population of 2.5 and 2.8 per cent, respectively as shown in Table 19.8.

**Table 19.8: Distribution of Older Population by County and Sex, 2019**

| County          | Older population, 60 years and above |        |        |                                  |
|-----------------|--------------------------------------|--------|--------|----------------------------------|
|                 | Total <sup>1</sup>                   | Male   | Female | Percentage of population age 60+ |
| Mombasa         | 38,216                               | 19,249 | 18,967 | 3.2                              |
| Kwale           | 49,519                               | 22,580 | 26,939 | 5.7                              |
| Kilifi          | 84,837                               | 35,266 | 49,571 | 5.8                              |
| Tana River      | 15,363                               | 7,528  | 7,835  | 4.9                              |
| Lamu            | 8,588                                | 4,384  | 4,203  | 6.0                              |
| Taita-Taveta    | 28,529                               | 13,138 | 15,391 | 8.4                              |
| Garissa         | 23,539                               | 13,546 | 9,991  | 2.8                              |
| Wajir           | 19,358                               | 12,055 | 7,301  | 2.5                              |
| Mandera         | 20,247                               | 11,830 | 8,416  | 2.3                              |
| Marsabit        | 20,151                               | 10,533 | 9,617  | 4.4                              |
| Isiolo          | 12,135                               | 6,353  | 5,782  | 4.7                              |
| Meru            | 122,055                              | 54,895 | 67,152 | 7.9                              |
| Tharaka-Nithi   | 38,768                               | 17,541 | 21,227 | 9.9                              |
| Embu            | 53,593                               | 23,663 | 29,929 | 8.8                              |
| Kitui           | 96,414                               | 41,297 | 55,115 | 8.5                              |
| Machakos        | 115,793                              | 51,301 | 64,488 | 8.2                              |
| Makueni         | 93,025                               | 40,166 | 52,858 | 9.4                              |
| Nyandarua       | 49,825                               | 22,296 | 27,529 | 7.8                              |
| Nyeri           | 81,394                               | 35,919 | 45,472 | 10.7                             |
| Kirinyaga       | 55,074                               | 24,257 | 30,815 | 9.0                              |
| Murang'a        | 119,819                              | 52,608 | 67,211 | 11.3                             |
| Kiambu          | 124,479                              | 56,473 | 68,002 | 5.2                              |
| Turkana         | 34,857                               | 15,400 | 19,456 | 3.8                              |
| West Pokot      | 25,994                               | 11,386 | 14,608 | 4.2                              |
| Samburu         | 13,791                               | 6,345  | 7,446  | 4.5                              |
| Trans Nzoia     | 52,063                               | 24,518 | 27,544 | 5.3                              |
| Uasin Gishu     | 51,176                               | 24,251 | 26,925 | 4.4                              |
| Elgeyo-Marakwet | 27,254                               | 12,682 | 14,570 | 6.0                              |
| Nandi           | 51,894                               | 24,669 | 27,220 | 5.9                              |
| Baringo         | 36,754                               | 17,308 | 19,445 | 5.5                              |

**Table 19.8: Distribution of Older Population by County and Sex, 2019 (Continued)**

| County       | Older population, 60 years and above |        |        |                                  |
|--------------|--------------------------------------|--------|--------|----------------------------------|
|              | Total <sup>1</sup>                   | Male   | Female | Percentage of population age 60+ |
| Laikipia     | 35,539                               | 16,484 | 19,055 | 6.9                              |
| Nakuru       | 106,262                              | 49,873 | 56,389 | 4.9                              |
| Narok        | 41,834                               | 20,164 | 21,668 | 3.6                              |
| Kajiado      | 37,200                               | 18,038 | 19,162 | 3.3                              |
| Kericho      | 48,629                               | 23,252 | 25,376 | 5.4                              |
| Bomet        | 45,781                               | 20,770 | 25,011 | 5.2                              |
| Kakamega     | 127,923                              | 56,780 | 71,139 | 6.9                              |
| Vihiga       | 61,923                               | 27,510 | 34,411 | 10.5                             |
| Bungoma      | 90,521                               | 40,117 | 50,402 | 5.4                              |
| Busia        | 56,141                               | 23,692 | 32,447 | 6.3                              |
| Siaya        | 82,918                               | 32,157 | 50,761 | 8.4                              |
| Kisumu       | 65,704                               | 28,040 | 37,663 | 5.7                              |
| Homabay      | 70,704                               | 28,781 | 41,922 | 6.3                              |
| Migori       | 52,782                               | 22,036 | 30,746 | 4.7                              |
| Kisii        | 87,648                               | 38,972 | 48,673 | 6.9                              |
| Nyamira      | 46,229                               | 21,488 | 24,739 | 7.6                              |
| Nairobi City | 99,195                               | 52,552 | 46,641 | 2.3                              |

<sup>1</sup>Includes Intersex

# Highlights of the 2021 FinAccess Household Survey

## Overview

The 2021 FinAccess Household Survey was jointly conducted by the Central Bank of Kenya (CBK), Kenya National Bureau of Statistics (KNBS) and Financial Sector Deepening Kenya (FSD Kenya) between June and September 2021. The report of top line findings of the survey was launched on December 15, 2021. The survey results indicate that the country has made significant progress in fostering financial inclusion over the past decade. The Country is the first in the East Africa region and third in the continent after South Africa and Seychelles in financial inclusion. This chapter provides key findings on access and usage dimensions of financial inclusion. The detailed survey report is available on the KNBS website.

## Objectives of the Survey

20.2. The main objective of FinAccess Household Surveys is to monitor developments and progress achieved in the financial sector, for policy makers and industry players to gain a better understanding of the inclusivity and track overall dynamics of Kenya's financial landscape.

## Survey Methodology

20.3. The 2021 FinAccess Survey sample was designed to provide estimates at national, rural/urban and across all the forty-seven (47) counties, resulting in 50 domains.

The Survey sample was drawn from the Kenya Household Master Sample Frame (K-HMSF) based on the 2019 Kenya Population and Housing Census. The minimum sample size for each of the Survey domains resulted into a sample size of 1,700 Enumeration Areas (EAs) and 30,600 households. The survey achieved an 85.6 per cent response rate from 25,724 eligible households interviewed at the time of data collection.

## Key Findings

### Access to Financial Services and Products

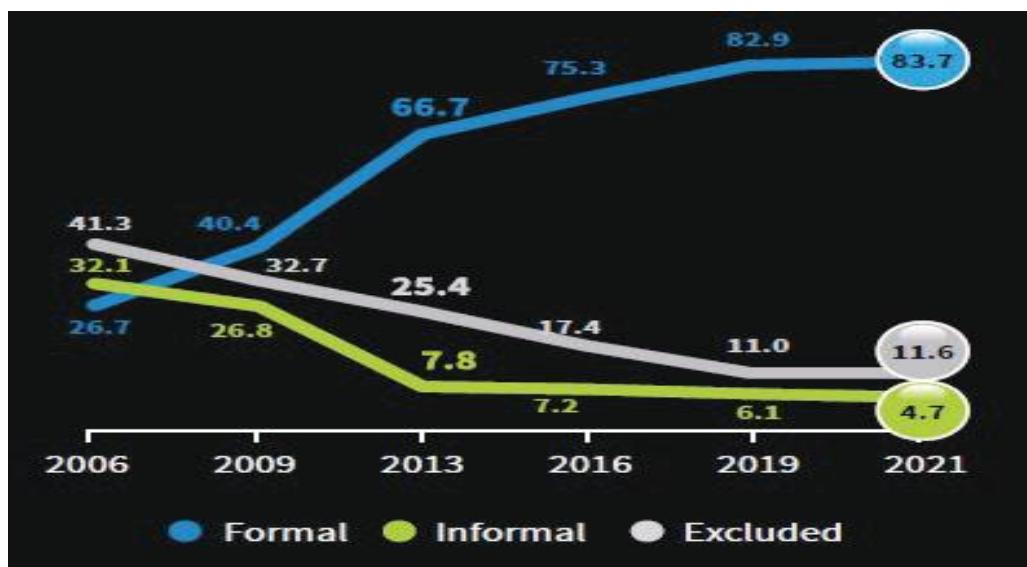
**20.4.** Users of financial services and products were classified according to the most formal financial service provider they used. Respondents who used at least one formal service provider were classified as formally included. Formal providers include banks, Savings and Credit Co-operatives (SACCO), mobile phone financial service providers (MFSs) and insurance companies, among other providers. Respondents who did not use any formal provider, but used at least one informal service provider (e.g. groups, chamas, shopkeeper credit, etc.) were classified as informally included. Respondents who did not use any formal or informal service providers were

classified as financially excluded. The excluded population comprise those that relied on basic financial mechanisms such as saving in secret/ hiding places or borrowing from a family member or a friend in case of a need.

### Overall Financial Access

**20.5.** The survey findings showed that access to formal financial services and products had grown since the 2006 baseline Survey. Access to formal financial services and products expanded from 26.7 per cent in 2006 to 82.9 per cent as shown in Figure 20.1. The increase was on account of rapid adoption of financial technology and innovations especially in mobile money and mobile banking. Access through informal providers reduced from 6.1 per cent in 2019 to 4.7 per cent in 2021. Those excluded from accessing any form of financial services rose by 0.6 percentage points, to 11.6 per cent in 2021. This could be partly explained by the effects of the COVID-19 pandemic that adversely impacted households' and firms' earnings and employment. It could also be attributed to the inability of the youths to obtain national identification documents required to access formal financial services and providers, due to COVID-19 movement restrictions.

**Figure 20.1: Overall Access to Financial Products and Services, 2006-2021 (per cent)**

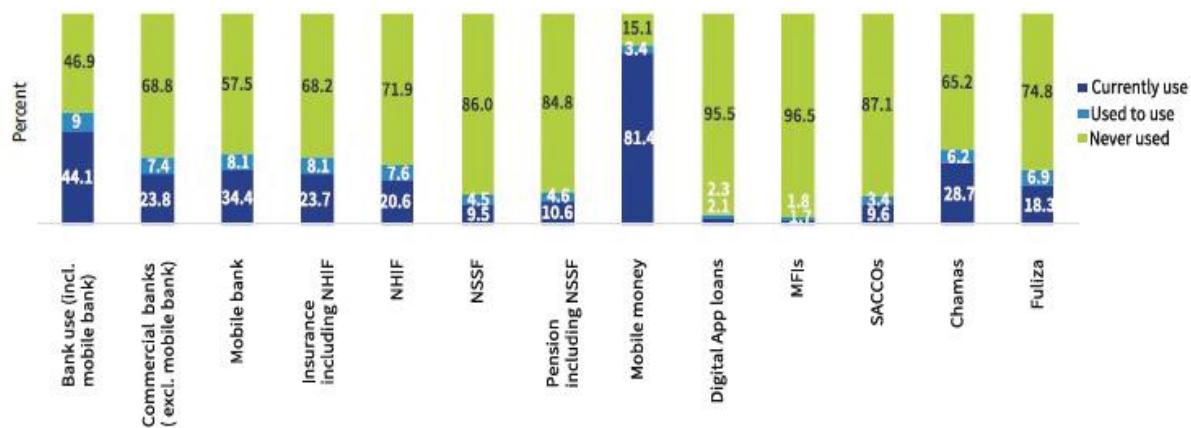


## Trends in Financial Access Dynamics, 2019 – 2021

**20.6.** Access to various financial products and services in 2021 and 2019 are presented in Figure 20.2 and Figure 20.3, respectively. Between 2019 and 2021 the use of banks increased due to higher up-

take of mobile banking. In 2021, the use of digital app loans declined by 6.2 percentage points partly due to increased Government interventions.

**Figure 20.2: Financial Access by Type of Product or Service, 2021**



**Note:** Used to use refers to those who used a service in the last 12 months but are not currently using

**Figure 20.3: Financial Access by Type of Product or Service, 2019**

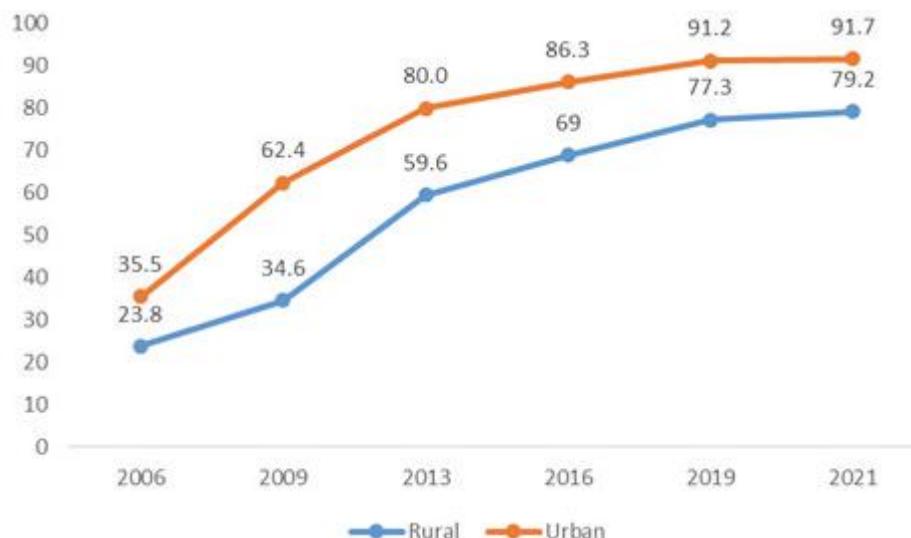


## Demographic Characteristics and Financial Inclusion

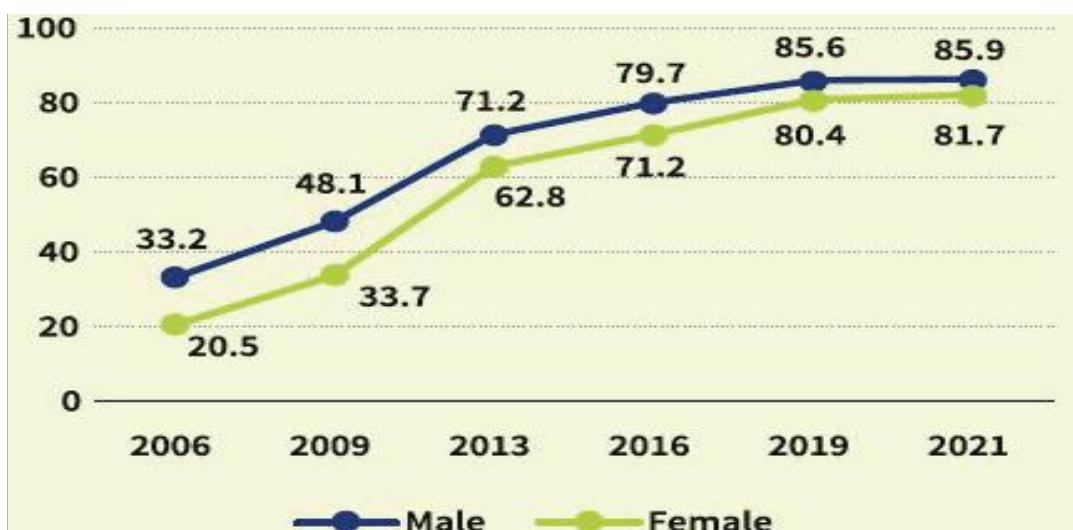
**20.7.** The rural–urban gap in access to formal financial service providers continued to narrow on account of faster adoption of mobile money among the rural population as shown in Figure 20.4. This could be partly explained by the Government policy in 2020 on encouraging non- cash transactions to slow down the spread of the coronavirus. Rural population

recorded an increase in inclusion rates from 77.3 per cent in 2019 to 79.2 per cent in 2021 as shown in Figure 20.4. Similarly, female population recorded an increase in inclusion rates from 80.4 per cent in 2019 to 81.7 per cent in 2021 as shown in Figure 20.5. Income disparities, age, and residence were key drivers of increased exclusion rate in 2021.

**Figure 20.4: Formal Inclusion by Residence, 2006 - 2021 (per cent)**



**Figure 20.5: Formal Inclusion by Sex, 2006 - 2021 (per cent)**



## Disparities in Financial Inclusion and Exclusion by Counties

**20.8.** Table 20.1 presents disparities in financial inclusion by county. Access to financial products and services varied significantly across counties. Nairobi City County had the highest access through formal providers at 95.0 per cent while West Pokot County had the lowest access at 57.7 per cent. The exclusion rates are presented in Table 20.2.

**Table 20.1:** Formal Access by County in 2021

| Code | County        | Per Cent | Code | County          | Per Cent |
|------|---------------|----------|------|-----------------|----------|
| 1    | Mombasa       | 89.9     | 25   | Samburu         | 68.5     |
| 2    | Kwale         | 73.0     | 26   | Trans Nzoia     | 89.3     |
| 3    | Kilifi        | 74.4     | 27   | Uasin Gishu     | 87.6     |
| 4    | Tana River    | 71.2     | 28   | Elgeyo-Marakwet | 73.7     |
| 5    | Lamu          | 84.2     | 29   | Nandi           | 79.2     |
| 6    | Taita-Taveta  | 82.0     | 30   | Baringo         | 74.9     |
| 7    | Garissa       | 60.8     | 31   | Laikipia        | 83.4     |
| 8    | Wajir         | 86.5     | 32   | Nakuru          | 87.8     |
| 9    | Mandera       | 83.9     | 33   | Narok           | 64.9     |
| 10   | Marsabit      | 78.4     | 34   | Kajiado         | 88.7     |
| 11   | Isiolo        | 87.8     | 35   | Kericho         | 85.8     |
| 12   | Meru          | 81.0     | 36   | Bomet           | 78.6     |
| 13   | Tharaka-Nithi | 84.5     | 37   | Kakamega        | 79.6     |
| 14   | Embu          | 87.6     | 38   | Vihiga          | 79.1     |
| 15   | Kitui         | 80.4     | 39   | Bungoma         | 73.9     |
| 16   | Machakos      | 89.6     | 40   | Busia           | 78.2     |
| 17   | Makueni       | 87.6     | 41   | Siaya           | 83.8     |
| 18   | Nyandarua     | 81.1     | 42   | Kisumu          | 88.1     |
| 19   | Nyeri         | 93.8     | 43   | Homabay         | 81.7     |
| 20   | Kirinyaga     | 92.1     | 44   | Migori          | 75.5     |
| 21   | Murang'a      | 92.8     | 45   | Kisii           | 81.1     |
| 22   | Kiambu        | 91.8     | 46   | Nyamira         | 76.9     |
| 23   | Turkana       | 60.3     | 47   | Nairobi City    | 95.0     |
| 24   | West Pokot    | 57.6     |      |                 |          |

**Table 20.2:** Exclusion by County in 2021

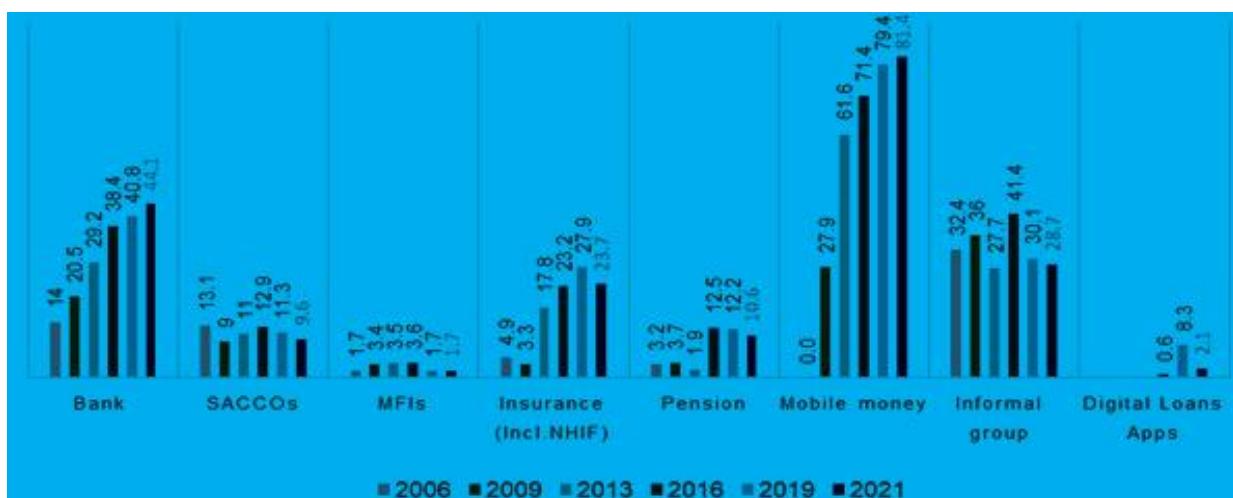
| Code | County        | Per Cent | Code | County          | Per Cent |
|------|---------------|----------|------|-----------------|----------|
| 1    | Mombasa       | 7.9      | 25   | Samburu         | 15.5     |
| 2    | Kwale         | 24.1     | 26   | Trans Nzoia     | 7.0      |
| 3    | Kilifi        | 18.2     | 27   | Uasin Gishu     | 11.0     |
| 4    | Tana River    | 26.4     | 28   | Elgeyo-Marakwet | 12.8     |
| 5    | Lamu          | 12.2     | 29   | Nandi           | 16.4     |
| 6    | Taita-Taveta  | 12.2     | 30   | Baringo         | 10.6     |
| 7    | Garissa       | 34.3     | 31   | Laikipia        | 14.3     |
| 8    | Wajir         | 11.0     | 32   | Nakuru          | 10.1     |
| 9    | Mandera       | 14.5     | 33   | Narok           | 31.2     |
| 10   | Marsabit      | 8.5      | 34   | Kajiado         | 7.5      |
| 11   | Isiolo        | 6.2      | 35   | Kericho         | 12.2     |
| 12   | Meru          | 12.0     | 36   | Bomet           | 19.2     |
| 13   | Tharaka-Nithi | 5.9      | 37   | Kakamega        | 8.5      |
| 14   | Embu          | 5.8      | 38   | Vihiga          | 10.4     |
| 15   | Kitui         | 16.0     | 39   | Bungoma         | 16.8     |
| 16   | Machakos      | 6.2      | 40   | Busia           | 14.5     |
| 17   | Makueni       | 8.0      | 41   | Siaya           | 8.9      |
| 18   | Nyandarua     | 16.1     | 42   | Kisumu          | 9.6      |
| 19   | Nyeri         | 4.4      | 43   | Homabay         | 14.5     |
| 20   | Kirinyaga     | 4.8      | 44   | Migori          | 15.3     |
| 21   | Murang'a      | 5.3      | 45   | Kisii           | 16.1     |
| 22   | Kiambu        | 5.6      | 46   | Nyamira         | 14.3     |
| 23   | Turkana       | 11.4     | 47   | Nairobi City    | 2.8      |
| 24   | West Pokot    | 11.3     |      |                 |          |

## Usage of Financial Services and Products

**20.9.** Trends in use of financial services and products by type of financial service provider are presented in Figure 20.6. The survey results indicate that mobile money and banking service providers recorded the highest usage at 81.4 per cent and 44.1 per cent, re-

spectively. Mobile money has expanded significantly since the 2009 FinAcces survey. The use of informal groups (such as chamas) was reported at 28.7 per cent of the respondents in 2021, a decline from 30.1 per cent reported in the 2019 survey.

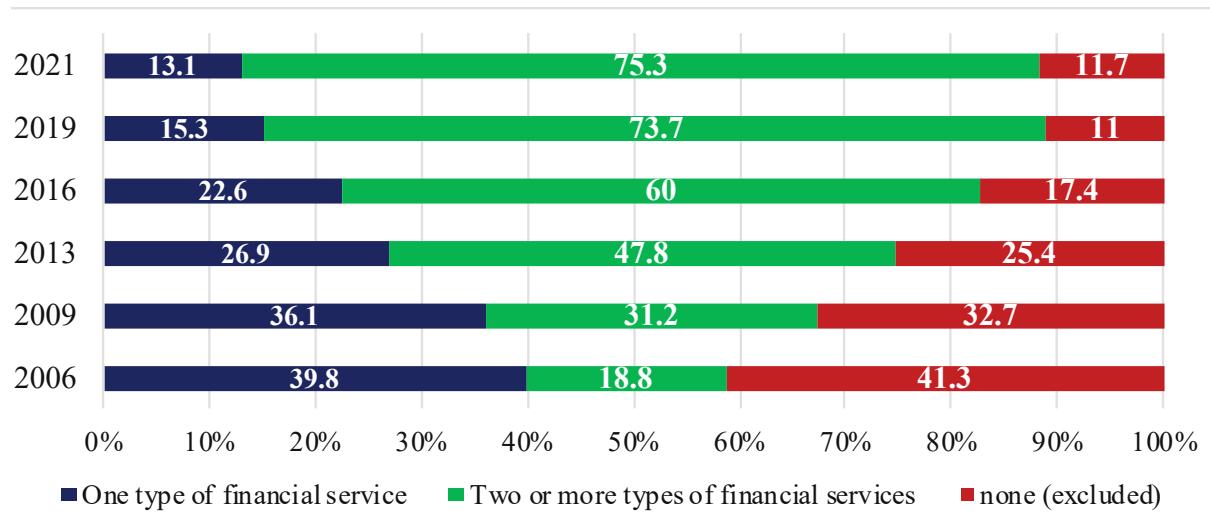
**Figure 20.6: Use of Financial Services by Type of Provider, 2006 - 2021 (per cent)**



## Use of a Portfolio of Financial Service Providers

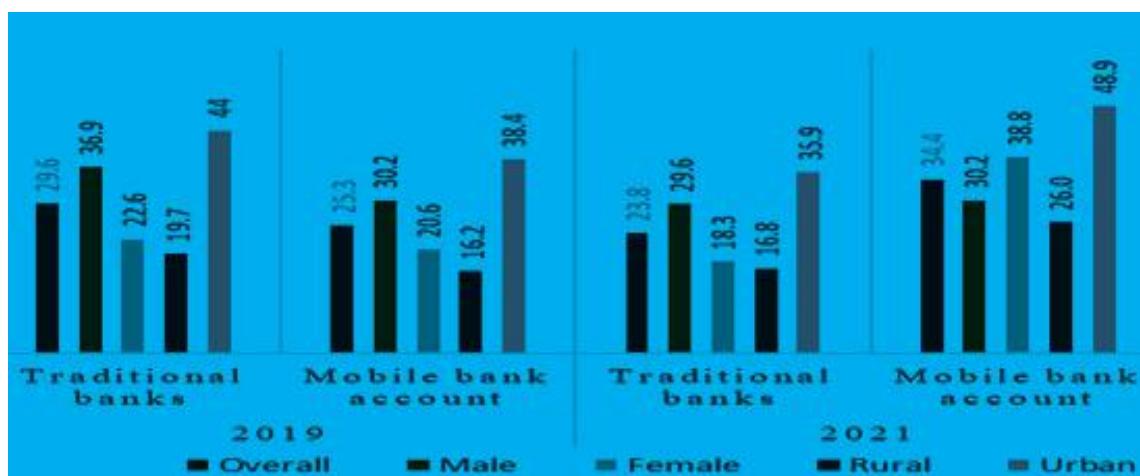
**20.10.** The usage of multiple service providers is highlighted in Figure 20.7. The number of respondents that use two or more types of financial services and products simultaneously, increased by 1.6 percentage points from 73.7 per cent in 2019 to 75.3 per cent in 2021, indicating preference for a wider range of providers and products. This partly shows the interlinkages between mobile money, digital platforms, and traditional financial services providers. The adult population who reported to be using only one type of financial service and product declined

by 2.2 percentage points from 15.3 per cent in 2019 to 13.1 per cent in 2021. Those who reported not to have used any type of financial service or product in the last 12 months prior to the Survey increased by 0.7 percentage points to 11.7 per cent. This increase was partly attributed to loss of jobs and unemployed adults transitioning from schooling to job market and have just acquired the National Identity Card. These groups may not have used any form of financial services and products as the COVID-19 pandemic disrupted economic activities.

**Figure 20.7: Usage of a Portfolio of Financial Service Providers, 2006 - 2021 (per cent)**

### Usage of Traditional Banks Versus Mobile Bank Accounts

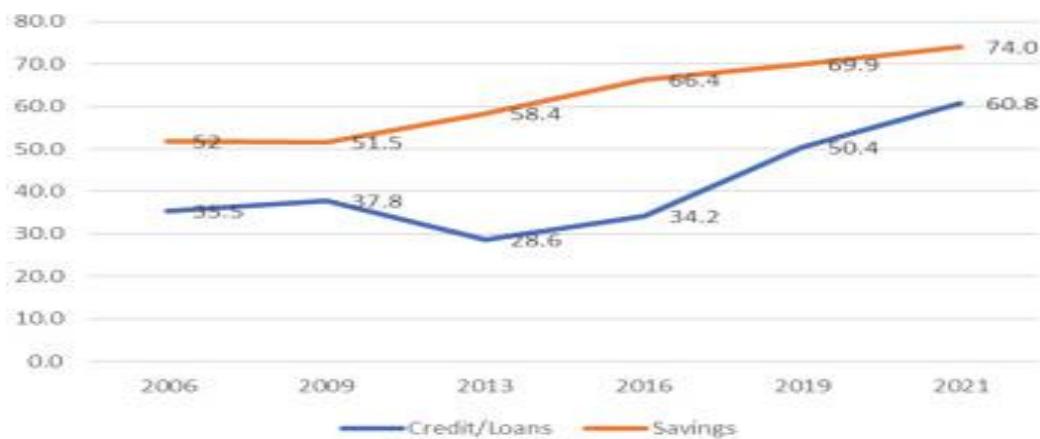
**20.11.** The overall usage of traditional bank accounts declined from 29.6 per cent in 2019 to 23.8 per cent in 2021 as shown in Figure 20.8. The mobile banking usage however increased from 25.3 per cent in 2019 to 34.4 per cent in 2021 as more people increased use of the service due to COVID-19.

**Figure 20.8: Usage of Traditional Banks vs Mobile Bank Account Usage, 2019 and 2021 (per cent)**

## Savings and Credit Usage

**20.12.** Uptake of credit by survey respondents rose much faster between 2016 and 2021 compared to use of savings as shown in Figure 20.9. The use of savings increased from 69.9 per cent in 2019 to 74.0 per cent in 2021 while the uptake of credit/loans increased from 50.4 per cent in 2019 to 60.8 per cent in 2021.

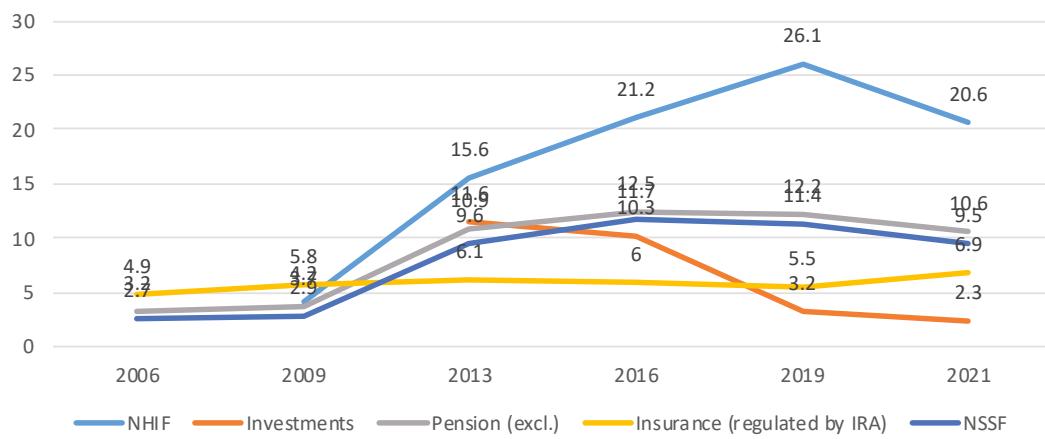
**Figure 20.9: Overall Usage of Savings and Credit, 2006 - 2021 (per cent)**



## Use of Pension, Insurance and Investment Providers

**20.13.** The survey findings also indicated that usage of pensions, investments and NHIF declined in 2021 as shown in Figure 20.10. The decline in usage is partly attributed to COVID-19 before the survey was undertaken. Notable was the decline in use of NHIF from 26.1 per cent in 2019 to 20.6 per cent in 2021.

**Figure 20:10: Usage of Pension, Insurance and Investment Providers, 2006 - 2021 (per cent)**











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