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## ABBREVIATIONS & ACRONYMS

<i>AfDB</i>	-	African Development Bank
<i>BADEA</i>	-	Arab Bank for Economic Development in Africa
<i>BMU</i>	-	Bridge Maintenance Unit
<i>CAGD</i>	-	Controller & Accountant General's Department
<i>CATB</i>	-	Central Advisory Tender Board
<i>DANIDA</i>	-	Danish International Development Agency
<i>DFR</i>	-	Department of Feeder Roads
<i>DLP</i>	-	Defects Liability Period
<i>DTF</i>	-	Dutch Trust Fund
<i>DUR</i>	-	Department of Urban Roads
<i>EU</i>	-	European Union
<i>GHA</i>	-	Ghana Highway Authority
<i>GCAA</i>	-	Ghana Civil Aviation Authority
<i>GIFMIS</i>	-	Ghana Integrated Financial Management Information Systems
<i>GOG</i>	-	Government of Ghana
<i>GSGDA</i>	-	Ghana Shared Growth & Development Agenda
<i>IPC</i>	-	Interim Payment Certificate
<i>IGF</i>	-	Internally Generated Fund
<i>JBIC</i>	-	Japan Bank for International Co-operation
<i>JICA</i>	-	Japan International Co-operation Agency
<i>KfW</i>	-	Kreditanstalt für Wiederaufbau
<i>MMU</i>	-	Mobile Maintenance Unit
<i>MOF</i>	-	Ministry of Finance
<i>MOT</i>	-	Ministry of Transport
<i>MOU</i>	-	Memorandum of Understanding
<i>MRH</i>	-	<i>Ministry of Roads &amp; Highways</i>
<i>NITA</i>	-	National Information Technology Agency
<i>OECF</i>	-	Overseas Economic Cooperation Fund
<i>PAP</i>	-	Project Affected Persons
<i>RAP</i>	-	Resettlement Action Plan
<i>RCS</i>	-	Road Condition Survey
<i>RPF</i>	-	Resettlement Policy Framework
<i>SMEC</i>	-	Snowy Mountains Engineering Corporation
<i>TSDP</i>	-	Transport Sector Development Programme
<i>WATTFP</i>	-	West Africa Transport and Trade Facilitation Project

## APPENDICES

Appendix	A	GHA Organisational Structure
Appendix	B	Status Report for Development Projects December 2016

## EXECUTIVE SUMMARY

The Ghana Highway Authority (GHA) under the Ministry of Roads and Highways (MRH) is charged by Ghana Highway Authority 1997 Act 540 with the responsibility of developing, managing and maintaining the trunk road network in Ghana.

It is important to emphasize that infrastructure development is one of the pivot of national development and Ghana Highway Authority (GHA) plays a critical role in the provision of road infrastructure. This role is clearly stated in our Mission Statement.

### GHA Vision, Mission Statement and Target

#### GHA Vision

Being a world-class provider of safe road infrastructure.

#### Mission Statement

GHA provides Road Infrastructure Engineering and Management Services: project appraisal, feasibility studies and detailed design; contract preparation and administration; maintenance and operation; civil engineering materials prospecting and testing for roads, bridges and road safety facilities at best value – least cost to support the socio-economic development of Ghana and beyond.

#### Target

The Ghana Highway Authority in its 2000 – 2015 strategic plan proposed to achieve a road network condition mix of 70% good, 20% fair and 10% poor by the end of the year 2015. This target suffered a serious jolt, due to accumulated financing gaps in road maintenance of annual programmes over the years.

A total of 14,582.62km of Paved and Gravel trunk roads network, were surveyed and classified into Good, Fair and Poor conditions.

For both Paved and Gravel roads surveyed, the overall condition mix as it stands is shown in table 1 below.

**Table 1: 2016 Road Surface Condition Mix (National)**

Condition Description	Length (km)	Percentage (%)
GOOD	8,171.9	56
FAIR	5,428.62	37
POOR	982.1	7
<b>TOTAL</b>	<b>14,582.62</b>	<b>100</b>

*Source: GHA Road Maintenance Division, December 2017*

## Functional Classification of Roads

Trunk Roads in Ghana are functionally classified as either National (N), Inter Regional (IR) or Regional (R) roads. Table 2 and Figure 1 show a graphical representation of the functional classification in lengths and percentages whilst Table 3 and Figure 2 show the composition of the trunk road network by surface type.

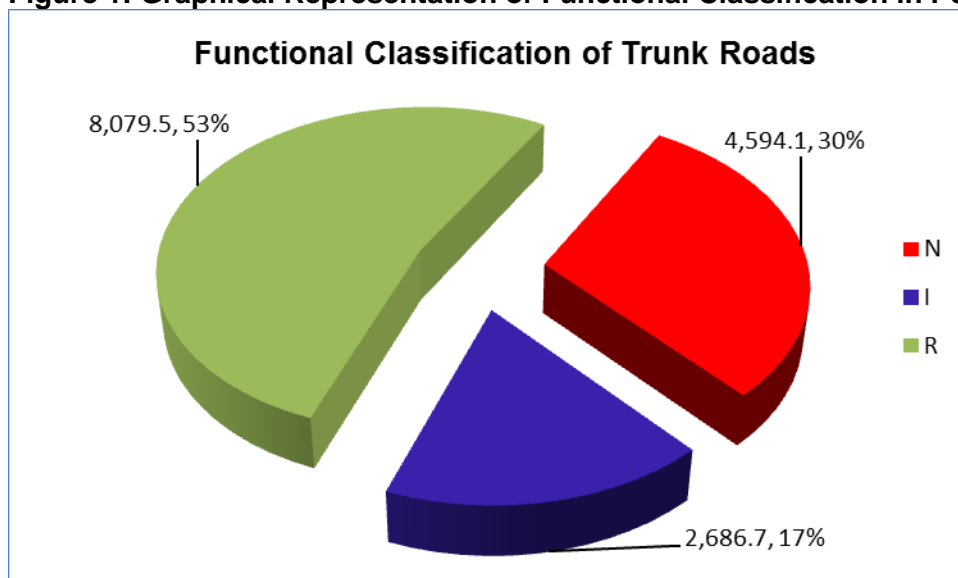
Table 4 lists and defines the National roads and the various major cities, towns and regions that the national roads traverse.

**Table 2: Functional Classification of Trunk Roads**

ROAD CLASS	ASR	BAR	CR	ER	GAR	NR	UER	UWR	VR	WR	TOTAL (KM)	%
N	442.5	560.5	326.9	341.5	280	1,064.00	288	420.1	418.4	452.6	4,594.1	31
I	476.7	566.8	200.7	401.8	0	519.7	61.4	121.3	33.7	304.6	2,686.7	16
R	976.7	1014.6	671.9	858.2	220	1,615.70	271	535.3	994	921.3	8,079.5	53
<b>TOTAL (KM)</b>	<b>1,895.9</b>	<b>2,141.9</b>	<b>1,199.5</b>	<b>1,601.5</b>	<b>500.5</b>	<b>3,199.4</b>	<b>620.3</b>	<b>1,076.7</b>	<b>1,446.1</b>	<b>1,678.5</b>	<b>15,360.3</b>	<b>100</b>

*Source: GHA Road Maintenance Division, December 2017*

**Figure 1: Graphical Representation of Functional Classification in Percentages**



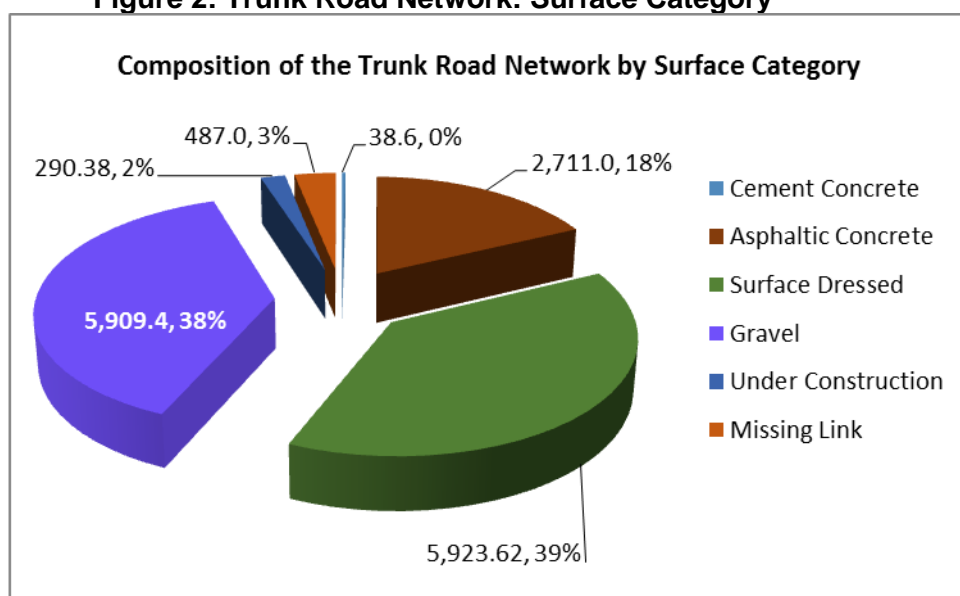
*Source: GHA Road Maintenance Division, December 2017*

**Table 3: Trunk Road Network: Classification by Surface Type**

Surface Category	Length (km)	Percentage of Total Network (%)
Cement Concrete	38.6	0.3
Asphaltic Concrete	2,711.0	17.6
Bituminous Surface Dressed	5,923.62	38.6
Gravel (Unpaved)	5,909.4	38.5
<b>Sub Total (Surveyed)</b>	<b>14,582.62</b>	<b>94.9</b>
Under Construction	290.38	1.9
Missing Link	487.0	3.2
<b>Grand Total</b>	<b>15,360.0</b>	<b>100.0</b>

*Source: GHA Road Maintenance Division, December 2017*

**Figure 2: Trunk Road Network: Surface Category**



*Source: GHA Road Maintenance Division, December 2017*

**Table 4: National Roads**

Route No	Name	Major Towns Roads Traverse	Regions that the Roads Traverse
N1	Trans West Africa Highway	Aflao, Tema, Accra, Cape Coast	Volta, Greater Accra, Central and
		Takoradi, Elubo	Western Regions
N2	Eastern Corridor	Tema ,Asikuma, Hohoe, Jasikan, Nkwanta	Greater Accra and Volta
		Bimbila, Yendi, Gushiegu-Kulungugu	Northern Regions
N3		Koforidua, Oterkpolu, Krobo Odumase	Eastern Region
N4		Accra, Aburi, Mamfe, Koforidua, Bunso Junction	Greater Accra and Eastern Regions
N5		Asikuma, Ho	Volta Region
N6	Central Corridor	Accra, Suhum, Nkawaw, Konongo, Kumasi,	Greater Accra, Eastern, Ashanti and Brong Ahafo Regions
		Sunyani, Dormaa Ahenkro Gonokrom	
N7		Sawla, Damongo and Fulfulso	Northern Region
N8		Yamonnansa, Assin Fosu, Anwiankwanta, Kumasi	Central and Ashanti Regions
N9		Tamale, Pusuga	Northern Region
N10		Daboasi Junction, Atieku, Dunkwa, Kumasi	Western, Central, Ashanti ,Brong Ahafo, Northern and
		Techiman, Kintampo, Tamale Bolga and Paga	Upper East Regions
N11	Northern Corridor	Bolga, Bawku, Pulimakom	Upper East Region
N12	Western Corridor	Elubo, Enchi, Juabeso, Goaso, Sunyani	Western and Brong Ahafo
		Wenchi, Bole, Wa, Nadowli Hamile	Upper West, and Upper East Regions
N13	Northern Corridor	<u>Lawra, Han, Tumu, Navrongo</u>	Upper West & Upper East Regions
N14		Sakpeigu, Yawgu	Northern Region
N16		Tumu, Kupulima	Upper West Region
N18		Wa, Han	Upper West Region

**Source: GHA Road Maintenance Division, December 2017**



# CHAPTER ONE

## 1.0 Introduction

### 1.1 Establishment

The Ghana Highway Authority was initially established under NRC Decree 298 in December 1974. This has been superseded by Act 540 of December 1997 to reflect changes which have occurred in the road sub-sector and the role GHA has to play in the national socio-economic development agenda.

### 1.2 Policy Objective

To accelerate the realization of the mission statement, the Authority has devised the following objectives among others :

- **Improving Road Condition:** To ensure the provision, expansion, and maintenance of Trunk Road network and roads in District Capitals in good condition.
- **Reducing Accident Fatalities:** To work with the National Road Safety Commission and other stakeholders to reduce accident fatalities on the trunk road network
- **Reducing Travel Time:** To ensure the provision of affordable, safe and accessible transport system by dualisation of heavily trafficked Trunk Road Sections, and also creating by passes to build up major towns and cities along the Trunk roads.
- **Environmental and Social Mitigation Measures:** To mitigate the impact of the road development and maintenance program on the environment and people
- **Improving Quality of Systems Delivery:** To assist Ministry of Roads & Highways (MRH) and other Ministries, Departments & Agencies (MDA's) to develop and strengthen the appropriate legal, institutional and regulatory framework and regulate all modes of transport to ensure an efficient transport system that will promote quality delivery of services.
- **Administration & Human Resources:** To recruit, train and adequately motivate staff and provide the needed logistics to undertake the services.

### 1.3 Governing Body

The Authority is governed by a Board of Directors. The Board consists of ten members which are listed below in Table 5.

**Table 5: Board Members of Ghana Highway Authority**

<b>No</b>	<b>Organization/Institution</b>	<b>Name</b>	<b>Position</b>
1	President's Nominee	Dr. Francis Achampong	Chairman
2	Ministry of Roads and Highways	Mr. Godwin Joseph Brocke	Member
3	Ministry of Finance	Mrs. Mangowa Ghanney	Member
4	Ministry of Environment Science & Technology	Mr. Ben Asomani	Member
5	Ministry of Interior	Mrs. Adelaide Anno-Kumi	Member
6	Ghana Highway Authority (Chief Executive)	Mr. Ernest Arthur	Member
7	Private Enterprise Foundation	Mr. Senyo Kwasi Hosi	Member
8	Ghana Association of Consultants	Ing. Sir Frederick Kwabena Akwaboah	Member
9	Private Road Transport Unions of Ghana	Mr. Benjamin Ewusi Darbah	Member
10	Road Users Representative	Mr. Felix Aboagye	Member

## 1.4 The Directorate

The Authority has a Managing Director, designated as Chief Executive. Under him, there are three (3) Deputy Chief Executives: the Deputy Chief Executive (Administration); the Deputy Chief Executive (Development); and the Deputy Chief Executive (Maintenance).

## 1.5 Departments, Divisions and Regions/Road Area Offices

Under the three Departments, there are sixteen Divisions, in the Head Office, each of which is headed by a Director, and ten Regional Offices headed by Regional Highway Directors. The GHA also has Road Area offices nation-wide. The Internal Audit Division, though directly responsible to the Chief Executive, is under the Administration Department for administrative purposes.

The Organisational Chart of the GHA is attached (see Appendix A).

## CHAPTER TWO

### 2. 0 Financial Status Report

The Theme for 2017 Budget is “Sowing the seeds for the Growth and Jobs”. The 2017 budget has been developed within the broad framework of shifting economic management from taxation to production to grow the economy and also create jobs.

The government intends to strengthen tax administration, reduce tax exemption, and plug revenue loopholes and leakages as well as combating tax evasion. The government also intends to broaden the tax base, reducing and abolishing some taxes and levies, so as to create economic growth. *(Source: MOF, Budget Statement 2017)*

The Key Policies as outlined in the 2017 Budget by Government are summarized below:

- (i) Establishment of the Infrastructure Fund for Poverty Eradication Program (PEP). Under this, every constituency shall receive \$1m to combat poverty.
- (ii) Implementation of the “one district, one factory” program.
- (iii) Establishment of Zongo Development Fund.
- (iv) Rolling out the National Identification Scheme.
- (v) Introduction of Free SHS policy.
- (vi) Rolling out of National Digital Addressing System.
- (vii) Restoration of Teachers and Nurses Trainees allowances.
- (viii) Macro-economy Stability

*(Source: MOF, Budget Statement 2017)*

The Government targets to grow the economy by 6.3% of GDP, including oil and by 4.6% excluding oil of GDP. The Service Sector is to grow by 5.1%, end of year inflation rate expected to be 11.2%, fiscal deficit is also expected to be 6.5% of GDP.

*(Source: MOF, Budget Statement 2017)*

The Government also targets to have an import cover of 3 months for the Gross Foreign Reserve. *(Source: MOF, Budget Statement 2017)*

Strategies to be adopted by government to attain the goals set out in the 2017 Budget are:

- (i) Fiscal discipline
- (ii) Fiscal transparency
- (iii) Fiscal Clarity
- (iv) Abolishing some taxes
- (v) Reduce tax exemption
- (vi) Widening the tax base

The total Expected Revenue and grants including Oil as outlined in the 2017 Budget is GH¢44.9b representing 22% of GDP, whilst Total Expected Expenditure is GH¢58.14b representing 7.9% of GDP. Expenditure of goods and service is expected to cost GH¢3.5b representing 1.7% of the GDP. *(Source: MOF, Budget Statement 2017)*

Interest on loans is the second largest component of the 2017 Budget. The Government is expected to pay GH¢13.9b representing 23% of the Total Expenditure and also 6.9% of the GDP to its lenders as Total Interest Payment. *(Source: MOF, Budget Statement 2017)*

An amount of GH¢7.1b has been allocated for Capital Expenditure. The Government has decided to introduce Revenue capping for Agencies including GHA to reduce Internally Generated Revenue to these Agencies. (Source: MOF, Budget Statement 2017)

To this end, Ghana Highway Authority IGF revenue suffered 34% reduction. GHA was expected to pay electricity bill of about GH¢2m and water bill of about GH¢500,000 in 2017. It also had a negative impact on Ghana Highway Authority's financial resource and this led to further accumulation of debts to Service Providers and staff.

## Recurrent Expenditure

Details of the Approved Budget Ceilings and the pattern of releases for the year under review are provided below:

ITEM DETAILS	Budget Approved GH¢	Amount Released GH¢	%Released
1. Compensation for Employees	26,532,466.00	23,253,254.30	87.64
2. Goods and Services	500,000.00	151,581.00	30.32
3. Investment – GOG: ABFA	96,500,000.00	20,153,630.80	20.88
CF	75,000,000.00	28,642,997.41	38.19
Arrears		57,468,926.64	
4. Investment - Road Fund	250,000,000.00	161,864,286.51	64.75
5. IGF - Traditional	3,503,296.00	5,050,170.20	144.15
Axle Load	4,500,000.00	5,209,802.02	115.77
6. Investment - Donor	187,560,577.00	75,262,552.46	40.13
7. Tolls operational budget	22,668,384.47	19,571,743.58	86.30

### Arrears as at 31<sup>st</sup> December, 2017

<b>Road Arrears:</b> GOG	968,485,430.29
Road Fund	405,011,353.80

## Routine Maintenance

An amount of GH¢78,571,407.23 was brought forward for routine maintenance at 1<sup>st</sup> January, 2017. Contract certificates raised during the year amounted to GH¢133,671,475.24, whilst payments made by Road Fund Secretariat were GH¢86,878,371.81. Hence the amount outstanding as at 31<sup>st</sup> December, 2017 is GH¢125,364,510.60)

## GHA Units

The MMUs and BMU received an amount of GH¢1,932,319.14 from the Road Fund Secretariat whilst GH¢19,062,307.26 was received for Toll Operations. Amounts of GH¢3,117,649.44 and GH¢1,064,765.60 have been received for data collection & survey and ferry and marine operations respectively as at 31<sup>st</sup> December.

### **Periodic Maintenance and Minor Works**

An amount of GH¢89,318,731.09 was outstanding for work done under Periodic Maintenance & Minor Works as at 1<sup>st</sup> January, 2017. The certificates submitted for work done during the year amounted to GH¢458,552,296.17 whereas payment made as at 31<sup>st</sup> December by Road Fund Secretariat was GH¢74,985,914.70. Hence the outstanding for Road works as at 31<sup>st</sup> December, 2017 was GH¢472,885,112.56.

### **Development/Capital Projects**

An amount of GH¢528,522,675.08 was outstanding as at 1<sup>st</sup> January, 2017 for GOG Funded Projects. Certificates submitted for work done as at 31<sup>st</sup> December amounted to GH¢546,228,309.54. This brings the total outstanding as at 31<sup>st</sup> December, 2017 to GH¢968,485,430.29.

The details of the releases from the Government of Ghana and the various Donors are as shown below in Tables 6 & 7.

**Table 6: Summary of Funds Released As at 31<sup>st</sup> December 2017**

	<b>4<sup>TH</sup> QUARTER 2016</b>	<b>CUMULATIVE FOR THE YEAR</b>
<b>Recurrent Expenditure:</b>	<b>GH¢</b>	<b>GH¢</b>
Item 1 – Compensation – Salaries & Wages	5,951,759.9	23,253,254
Item 2 – Goods & Services	151,581	151,581
Item 3 – Salary Related Allowances		
<b>Item 4 – Investment:</b>		
Routine Maintenance	26,168,287	86,878,372
Periodic Maintenance & Minor Works	52,478,030.1	74,985,915
Consultancy – Road Fund/ Training		
Fuel for Monitoring		
Ferries (Senchi & Ada)	437,631.93	437,631.93
Supervision & Data Collection (Rd Cond. Survey)	-	1,652,967
GHA Units	2,898,143	5,880,649
Release for Tolls Operation	9,118,894	19,571,744
Axle Load and weighing Management	2,363,879	6,336,007
Plant Maintenance	533,466.13	533,466.13
<b>Capital/Investment</b>		
GOG Contributions (both current & arrears)	69,359,693	106,265,554
<b>DONOR:</b>	<b>(US\$)</b>	<b>(US\$)</b>
EU	985,151.16	6,334,006.36
AfDB	0.00	3,155,874.34
TSP	1,937,026	6,145,949
ALTFP	0.00	1,583,229
<b>TOTAL</b>	<b>6,195,511.65</b>	<b>81,022,249.09</b>

**Source: GHA Finance Division December 2017**

**Table 7: Approved Budget & Releases as at the end of Year 2017**

Expense Item	Budgets GH¢		Receipts/Releases GH¢			GH¢	GH¢
	Approved	Revised	1 <sup>st</sup> Quarter	2 <sup>nd</sup> Quarter	3 <sup>rd</sup> Quarter	4 <sup>th</sup> Quarter	Cum. releases
Personnel Emoluments	26,532,466		5,806,502	5,915,276.1	5,579,716.0	5,951,759.9	<b>23,253,254</b>
Goods and Services	500,000		-			151,581.0	<b>151,581</b>
							-
<b>Total</b>	<b>27,032,466</b>		<b>5,806,502</b>	<b>5,915,276</b>	<b>5,579,716</b>	<b>6,103,341</b>	<b>23,404,835</b>
<b>Development</b>							-
- GoG***	171,500,000				36,905,861	69,359,693	<b>106,265,554</b>
- Donor*	187,560,577		14,208,702	32,340,102	13,931,887	14,781,428	<b>75,262,119</b>
Arrears GOG as at 31st Dec 2017	968,485,430		-		-		-
<b>Total (Development)</b>	<b>359,060,577</b>		<b>14,208,702</b>	<b>32,340,102</b>	<b>50,837,748</b>	<b>84,141,122</b>	<b>181,527,673</b>
<b>Maintenance</b>							-
- Periodic (Road Fund)**	250,000,000		619,050.3		21,888,834.3	52,478,030.1	<b>74,985,915</b>
Road Fund Arrears as 30th Sep 2017	400,999,351						-
- Routine (Road Fund)	42,190,000				60,710,085	26,168,287	<b>86,878,372</b>
GHA Units			619,050	722,435	1,641,021	2,898,143	<b>5,880,649</b>
Tolls Operation Budget	22,668,384		5,452,849	-	5,000,000	9,118,894	<b>19,571,744</b>
Internal Generated Fund (IGF)	3,503,296		1,577,721				<b>1,577,721</b>
Axle Load & Weighing Mgt	4,500,000		1,734,079	739,561	1,498,487.88	2,363,879	<b>6,336,007</b>
<b>Total (Maintenance)</b>	<b>723,861,032</b>		<b>8,268,671</b>	<b>722,435</b>	<b>89,239,940</b>	<b>93,027,234</b>	<b>191,258,280</b>
<b>Grand Total</b>	<b>1,109,954,075</b>		<b>28,283,875</b>	<b>38,977,813</b>	<b>145,657,404</b>	<b>183,271,696</b>	<b>396,190,788</b>
* For List of Donors, please refer to Table: 5							
**It includes arrears as at 31st December 2017 please refer to page 11 & 12 of the report for details							

**Source: GHA Finance Division December 2017**

## Road and Bridges Toll

Total revenue accrued from tolls excluding ferries as at 31<sup>st</sup> December, 2017 was GH¢67,011,247.73. This represented 5.60% increase as compared to the amount of GH¢63,487,138.04 collected for the same period as at 31<sup>st</sup> December, 2016.

The recorded net increase of GH¢3,524,109.69 was due to the cash collection exercise at some of the Toll stations as well as monitoring activities and increase in vehicular traffic.

**Table 8: Comparative Toll Revenue Performance (Actual & Budget, 2017 & 2016)**

Toll Revenue Type	As at 31 <sup>st</sup> December, 2017 GH¢	As at 31 <sup>st</sup> December, 2016 GH¢	Increase/Decrease  GH¢
Toll Revenue from Roads and Bridges	67,011,247.73	63,487,138.04	3,524,109.69
Toll Revenue from Ada Ferry	0.00	43,788.50	(43,788.50)
<b>Total</b>	<b>67,011,247.73</b>	<b>63,530,926.54</b>	<b>3,480,321.19</b>

**Source: GHA Finance Division December 2017**

**Table 9: Comparative Toll Revenue Performance (Actual & Budget, 2016 & 2017)**

<b>Toll Revenue Type</b>	<b>Budget as at 31<sup>st</sup> Dec., 2017</b>	<b>Actual Collection, as at 31<sup>st</sup> Dec., 2017</b>	<b>Percentage Achieved, as at 31<sup>st</sup> Dec., 2017</b>	<b>Actual Collection, as at 31<sup>st</sup> Dec., 2016</b>
	GH¢	GH¢	%	GH¢
Revenue from manual toll stations	44,054,136.00	41,399,452.35	93.97	39,780,947.93
Revenue from Ada Ferry	126,000.00	0.00	0.00	43,788.50
<b>Sub-Total</b>	<b>44,180,136.00</b>	<b>41,399,452.35</b>	<b>93.71</b>	<b>39,824,736.43</b>
Revenue from automated toll stations	26,244,000.00	25,611,795.38	97.59	23,706,190.11
<b>Grand Total</b>	<b>70,424,136.00</b>	<b>67,011,247.73</b>	<b>95.15</b>	<b>63,530,926.54</b>

*Source: GHA Finance Division December 2017*

## **Audited Accounts**

The Board of Directors approved the 2016 audited Financial Statement during the year.



## CHAPTER THREE

### 3.0 Road Condition Mix for Year 2016

All together 14,582.62km of Paved and Gravel roads surveyed were classified into Good, Fair and Poor conditions.

For both paved and gravel surfaced roads, the length of road in Good condition were 8,171.9 representing 56% of the network surveyed. 5,428.62km or 37% were in Fair condition, while those in Poor condition were 982.1km or 7% of the network surveyed.

Table 10 below shows the statistics of the whole trunk road network classification surveyed in the period under review on regional basis. The length of roads of any surface type can be obtained regionally and also from national summaries.

**Table 10: Trunk Road Network Statistics (Year 2016)**

Region	Good		Fair		Poor		Total	
	km	%	km	%	km	%	km	%
Ashanti	918.2	56%	613.4	37%	116.2	7%	1,647.8	100%
Brong Ahafo	1,138.9	57%	685.7	34%	175.5	9%	2,000.1	100%
Central	449.8	38%	614.7	51%	134.0	11%	1,198.5	100%
Eastern	795.3	51%	689.8	44%	65.8	4%	1,550.9	100%
Greater Accra	146.7	28%	328.1	63%	48.6	9%	523.4	100%
Northern	1,681.8	57%	1,035.6	35%	221.4	8%	2,938.8	100%
Upper East	446.5	76%	143.6	24%	0.0	0%	590.1	100%
Upper West	594.3	55%	479.4	45%	1.7	0%	1,075.4	100%
Volta	1,148.5	82%	241.7	17%	15.1	1%	1,405.3	100%
Western	851.9	52%	596.6	36%	203.8	12%	1,652.3	100%
<b>Total</b>	<b>8,171.9</b>	<b>56%</b>	<b>5,428.6</b>	<b>37%</b>	<b>982.1</b>	<b>7%</b>	<b>14,582.6</b>	<b>100%</b>

*Source: GHA Road Maintenance Division December 2017*

### 3.1 Road Network Condition 2010-2016

The 2016 road condition report makes comparison with those of 2010 - 2015. The length of roads in good condition increased from 3,865km (29%) in 2010 to 8,171.92 (56%) in 2016. This trend predicts a linear pattern of annual increase of 4.7%. It is hoped that GHA will be able to sustain this positive trend to attain the national target of road condition mix of 70% Good, 20% Fair and 10% Poor.

**Table 11: Comparison of the Surveyed Road Surface Network Condition 2010-2016**

YEAR	GOOD		FAIR		POOR		TOTAL
	Length (km)	(%)	Length (km)	(%)	Length (km)	(%)	Length (km)
2010	3,865	29	5,841	44	3,556	27	13,262
2011	4,566	34	3,758	28	5,019	38	13,343
2012	6,184	46	4,412	33	2,882	21	13,478
2013	6,490.10	52	4,271.40	34	1,776.50	14	12,538
2014	7,128.53	52	5,452.09	39	1,256.80	9	13,837
2015	7,618.5	56.8	4,838.40	36.1	960	7.2	13,416.9
2016	8,171.92	56.0	5,428.6	37.2	982.1	6.7	14,582.62

*Source: GHA Road Maintenance Division December 2017*

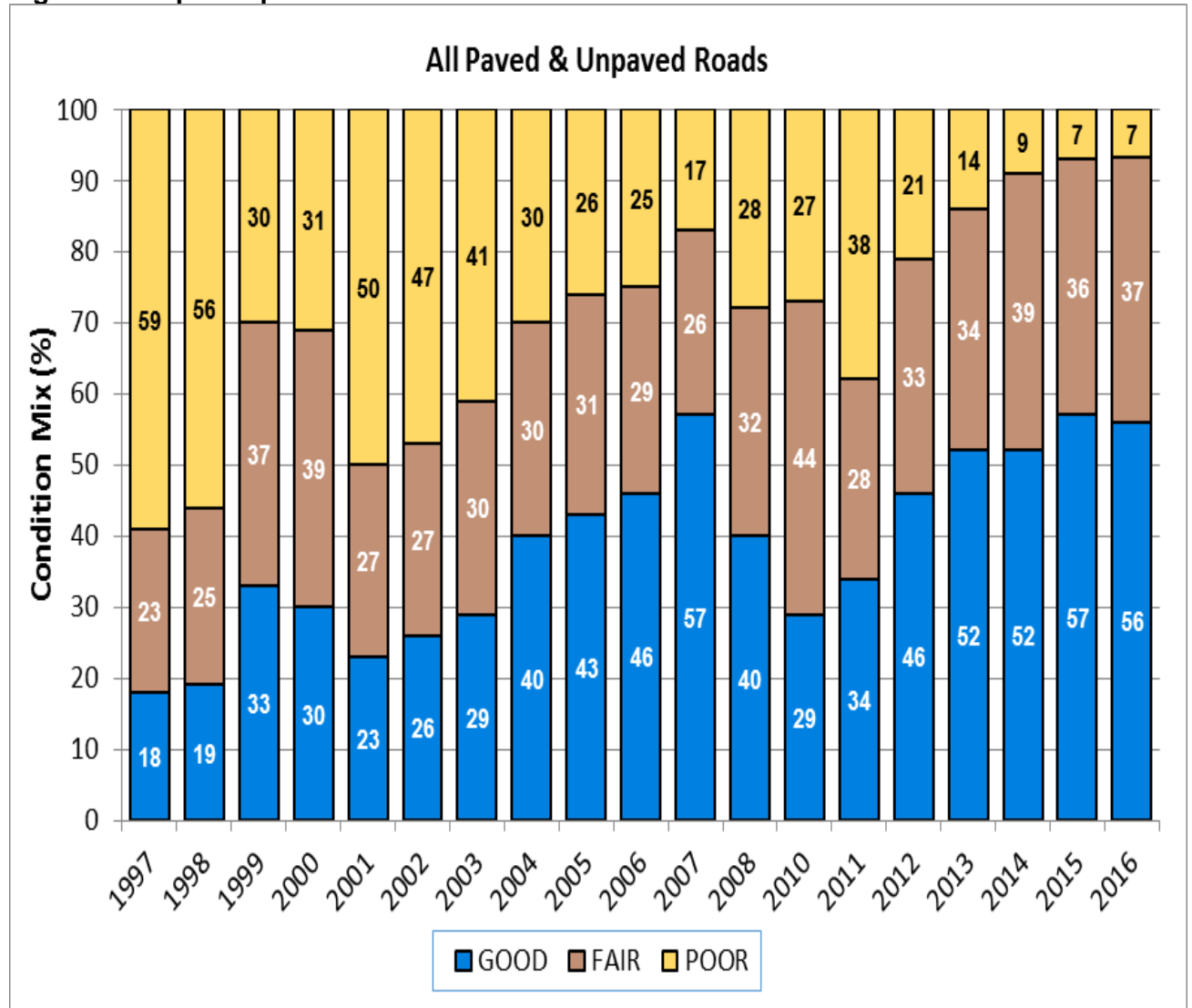
Table 12 and figure 3 show the progression of road surface condition for both paved and unpaved roads for the period 1997-2016.

**Table 12: Condition Mix of Paved & Unpaved Road Network Condition from 1997 to 2016**

YEAR	GOOD		FAIR		POOR		TOTAL	
	Km	%	Km	%	Km	%	Km	%
1997	2,512.0	18	3,210.0	23	8,233.0	59	13,955.0	100
1998	2,566.0	19	3,377.0	25	7,564.0	56	13,507.0	100
1999	4,433.0	33	4,970.0	37	4,030.0	30	13,433.0	100
2000	3,381.0	30	4,293.0	39	3,448.0	31	11,121.0	100
2001	2,726.0	23	3,152.0	27	5,984.0	50	11,850.0	100
2002	3,089.0	26	3,244.0	27	5,639.0	47	11,972.0	100
2003	3,272.0	29	3,316.0	30	4,540.0	41	11,128.0	100
2004	4,410.0	40	3,294.0	30	3,250.0	30	10,942.0	100
2005	4,739.0	42	3,510.0	31	2,928.0	26	11,177.0	100
2006	5,402.0	46	3,397.0	29	2,924.0	25	11,723.0	100
2007	6,342.0	57	2,970.0	27	1,868.0	17	11,180.0	100
2008	4,696.0	40	3,771.0	32	3,150.0	27	11,618.0	100
2010	3,865.0	29	5,841.0	44	3,556.0	27	13,263.0	100
2011	4,567.0	34	3,758.0	28	5,019.0	38	13,344.0	100
2012	6,183.5	46	4,411.8	33	2,881.9	21	13,477.0	100
2013	6,490.0	52	4,271.0	34	1,777.0	14	12,538.0	100
2014	7,492.33	52	5,643.59	39	1,262.8	9	14,398.72	100
2015	7,618.5	57	4,838.4	36	960.0	7	13,416.9	100
2016	8,171.92	56	5,428.6	37	982.1	7	14,582.62	100

**Source: GHA Road Maintenance Division, December 2017**

**Figure 3: Graphical presentation of 2016 Road Condition Mix for Paved & Gravel Roads**

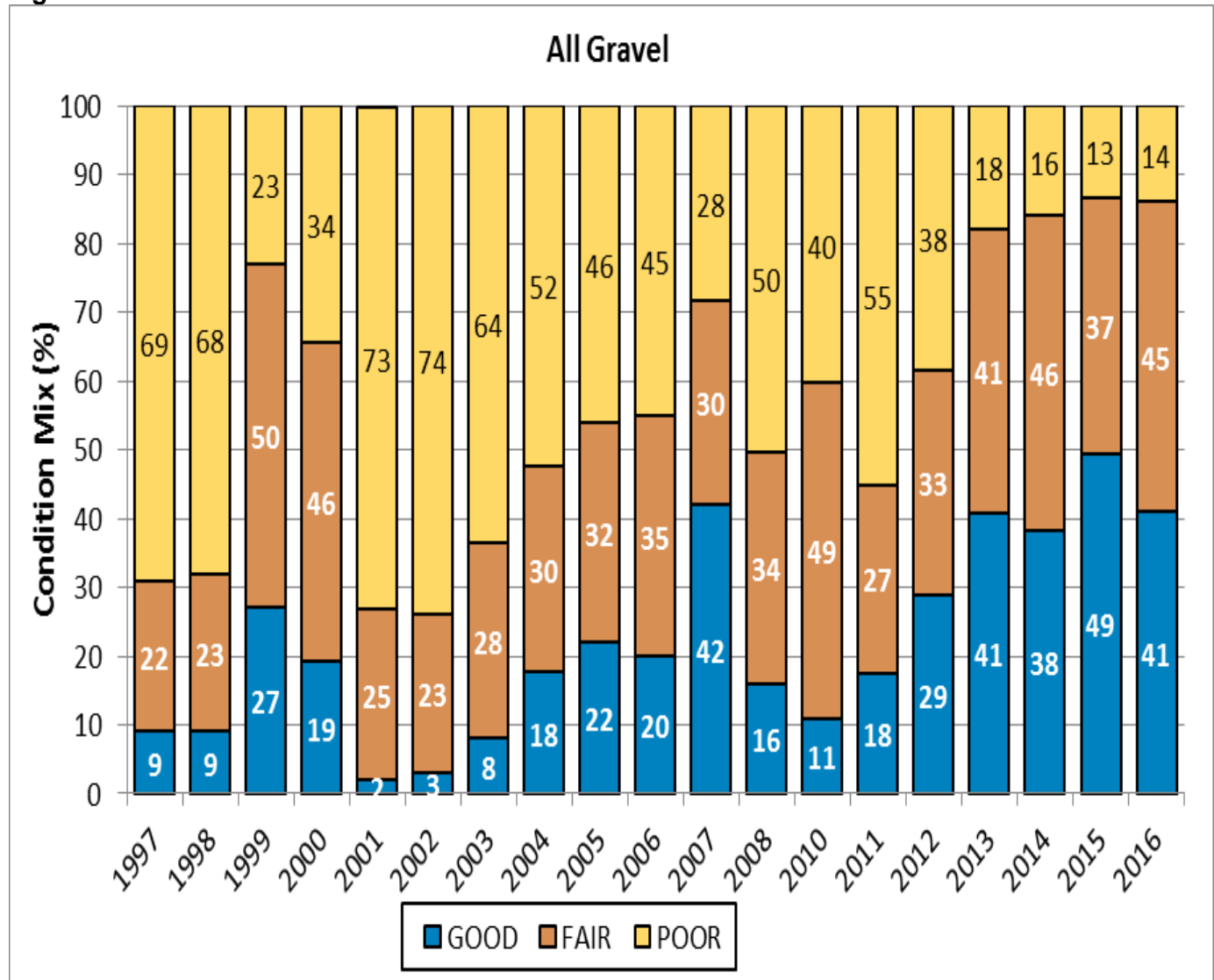


*Source: GHA Road Maintenance Division, December 2017*

### 3.2 Comparison of Gravel Roads Network Condition 1997 – 2016

Figure 4 and Table 13 show the progression of Gravel Road Network Condition from 1997 and 2016

**Figure 4: Road Condition Mix for Gravel Roads Network of 1997- 2016**



Source: GHA Road Maintenance Division, December 2017

**Table 13: Gravel Roads Network Condition from 1997 to 2017**

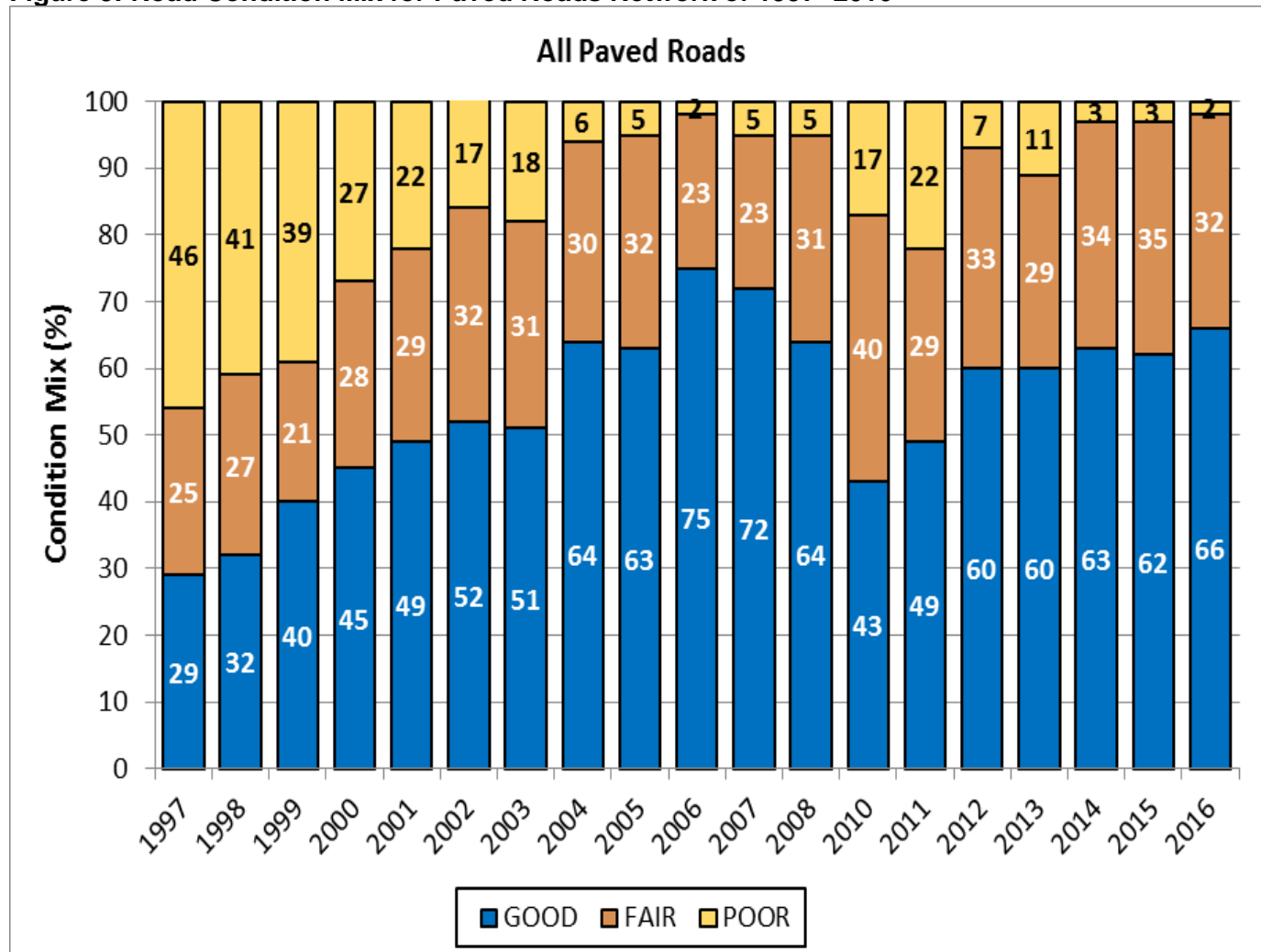
YEAR	GOOD		FAIR		POOR		TOTAL	
	Km	%	Km	%	Km	%	Km	%
1997	690.0	9	1,687.0	22	5,290.0	69	7,666.0	100
1998	672.0	9	1,716.0	23	5,075.0	68	7,463.0	100
1999	2,016.0	27	3,732.0	50	1,717.0	23	7,465.0	100
2000	1,211.0	19	2,926.0	46	2,169.0	34	6,305.0	100
2001	139.0	2	1,631.0	25	4,828.0	73	6,604.0	100
2002	198.0	3	1,468.0	23	4,717.0	74	6,383.0	100
2003	450.0	8	1,598.0	28	3,579.0	64	5,627.0	100
2004	998.0	18	1,671.0	30	2,938.0	52	5,607.0	100
2005	1,280.0	22	1,861.0	32	2,675.0	46	5,816.0	100
2006	1,191.1	20	2,123.4	35	2,784.2	46	6,098.7	100
2007	2,347.0	42	1,670.0	30	1,581.0	28	5,597.0	100
2008	894.0	16	1,911.0	34	2,841.0	50	5,646.0	100
2010	629.0	11	2,828.0	49	2,336.0	40	5,794.0	100
2011	1,088.0	18	1,696.0	27	3,410.0	55	6,194.0	100
2012	1,759.0	29	2,011.0	33	2,347.0	38	6,116.0	100
2013	2,229.0	41	2,248.0	41	980.0	18	5,457.0	100
2014	2,398.97	38	2,870.43	46	1,005.5	16	6,274.9	100
2015	2,792.6	49	2,103.4	37	759.1	13	5,655.1	100
2016	2,430.3	41	2,631.3	45	847.8	14	5,909.4	100

*Source: GHA Road Maintenance Division, December 2017*

### 3.3 Comparison of Paved Roads Network Condition 1997 – 2016

Table 14 and figure 5 show the progression of the condition of the Paved Road Network Condition from 1997 to 2016.

**Figure 5: Road Condition Mix for Paved Roads Network of 1997- 2016**



Source: GHA Road Maintenance Division, December 2017

**Table 14: Paved Roads Network Condition from 1997 to 2016**

YEAR	GOOD		FAIR		POOR		TOTAL	
	Km	%	Km	%	Km	%	Km	%
1997	1,824.0	29	1,572.0	25	2,893.0	46	6,289.0	100
1998	1,934.0	32	1,632.0	27	2,478.0	41	6,044.0	100
1999	2,387.0	40	1,253.0	21	2,328.0	39	5,968.0	100
2000	2,172.0	45	1,373.0	28	1,271.0	26	4,816.0	100
2001	2,581.0	49	1,516.0	29	1,149.0	22	5,246.0	100
2002	2,890.0	52	1,777.0	32	922.0	17	5,589.0	100
2003	2,822.0	51	1,711.0	31	963.0	18	5,501.0	100
2004	3,404.0	64	1,622.0	30	309.0	6	5,335.0	100
2005	3,168.0	63	1,632.0	32	253.0	5	5,361.0	100
2006	4,209.7	75	1,274.1	23	138.6	2	5,622.4	100
2007	3,995.0	72	1,302.0	23	288.0	5	5,585.0	100
2008	3,802.0	64	1,860.0	31	309.0	5	5,948.0	100
2010	3,191.0	43	3,013.0	40	1,220.0	16	7,424.0	100
2011	3,478.0	49	2,062.0	29	1,609.0	22	7,149.0	100
2012	4,386.0	60	2,401.0	33	535.0	7	7,323.0	100
2013	4,278.0	60	2,043.0	29	759.0	11	7,080.0	100
2014	5,093.36	63	2,773.16	34	257.3	3	8,123.82	100
2015	4,806.6	62	2,735.0	35	200.9	3	7,742.52	100
2016	5,741.6	66	2,797.3	32	134.3	2	8,673.22	100

**Source: GHA Road Maintenance Division, December 2017**



## CHAPTER 4

### 4.0 Projects & Achievements

#### 4.1 Procurement of Services

GHA is responsible for monitoring of all development projects and road project components of all regional corridor programmes involving Ghana and other countries in the sub-region. Additionally, GHA provides the main link between the Authority and Development Partners for the efficient coordination of road projects and related facilities.

Generally the objectives of the road projects are to reduce poverty and boost economic development by reducing road accidents, travel time and Vehicle Operating Cost (VOC). These result in reduced road user cost for both passengers and freight.

These objectives are achieved through (i) Procurement of Consultants for specific engineering tasks and (ii) Co-ordination of activities with Development Partners.

##### 4.1.1 Expression of Interest

During the year under review letters were sent to the individual companies to invite them to express their intent for the following projects:

- The Assessment Study to Implement Output and Performance Based Road Contracts for the Upgrading of Tatale-Zabzugu-Yendi-Tamale Road(Section R201) 165.8Km,
- Zabzugu-Nakpali-Bimbila Road(Section R27/01) 73.6Km
- Selected Feeder Roads in the Brong Ahafo, Northern, Upper East and Upper West Regions

##### 4.1.2 Contract Agreement

During the course of 2017, Contract Agreements were signed for the following Services

- Construction Services For Inventory and Condition Survey of Ghana Highway Authority Bridges (Lot1: Western and Central Regions)
- Construction Services For Inventory and Condition Survey of Ghana Highway Authority Bridges (Lot2: Greater Accra, Volta and Eastern Regions)
- Construction Services For Inventory and Condition Survey of Ghana Highway Authority Bridges (Lot3: Ashanti and Brong Ahafo Regions)
- Construction Services For Inventory and Condition Survey of Ghana Highway Authority Bridges (Lot4: Northern Upper East and Upper West Region)
- The Assessment Study to Implement Output and Performance Based Road Contracts for the following roads:

- ✚ Upgrading of Tatale-Zabuzugu-Yendi-Tamale Road (Section R201) 165.8Km,
- ✚ Zabzugu-Nakpali-Bimbila Road (Section R27/01) 73.6Km
- ✚ Selected Feeder Roads in the Brong - Ahafo Road, Northern Region, Upper East Region and Upper West Region 1,360Km.

- Individual Consultancy services as Social Safeguards Specialist for the following roads
  - The Upgrading of Tatale-Zabuzugu-Yendi-Tamale Road (Section R 201) 165.8km,
  - Zabzugu- Nakpali-Bimbila Road (Section R29/01) 73.6km
  - And For Selected Feeder Roads In The Brong-Ahafo Region, Northern Region, Upper East Region, and Upper West Region (1,360km)
- Consultancy Services for Construction Supervision of Ghanaian International Corridors (Grade Separation of Tema Intersection in Tema)

#### 4.1.3 Status of Consultancy Services

A total of twenty six (26) Consultancy Services were managed, over the year, by the Authority. The breakdown is as provided in the Table 15 below.

**Table 15: Number and Fund Sources for Services.**

<b>Funding Source</b>	<b>Number of Projects</b>
ORIO	1
AfDB	3
World Bank	9
JICA	2
BRAZILIAN	1
DANIDA	1
PPP	3
GOG	6
<b>Total</b>	<b>26</b>

*Source: GHA Planning Division, December 2017*

#### 4.1.4: Missions from Development Partners

Tables 16, 17 and 18 below list details of visits by development partners

**Table 16: World Bank Missions**

PROJECT	DATE	REMARKS
Transport Sector Projects (TSP)	28 <sup>th</sup> August – 8 <sup>th</sup> September 2017	<ul style="list-style-type: none"> <li>The aim of the mission was to review project implementation.</li> </ul>
Transport Sector Improvement Projects (TSIP)	November 20 <sup>th</sup> -30 <sup>th</sup> 2017	<ul style="list-style-type: none"> <li>Implementation, output and performance on all TSIP project.</li> </ul>
	27 <sup>th</sup> November – 8 <sup>th</sup> December, 2017	<ul style="list-style-type: none"> <li>Agree on the project implementation Performance Based Road Contracts For The Upgrading Of Tatale-Zabuzugu-Yendi-Tamale Road (Section R 201) 165.8km, Zabzugu- Nakpali-Bimbila Road (Section R29/01) 73.6km And For Selected Feeder Roads In The Brong-Ahafo Region, Northern Region, Upper East Region, and Upper West Region(1360km)</li> </ul>

*Source: GHA Planning Division, December 2017*

**Table 17: JICA Missions**

Project	Date	Remarks
Project For The Improvement Of The Motorway Roundabout	May 16, 2017	<ul style="list-style-type: none"> <li>Seek approval for the works Bidding Documents and explanation of bidding procedure for the Tema Motorway Interchange Project.</li> </ul>
Consulting Services For The Construction Of A New Bridge Across The Volta River On The Eastern Corridor Project	2 <sup>nd</sup> to 16 <sup>th</sup> March 2017	<ul style="list-style-type: none"> <li>Implement the Technical Cooperation Project on Capacity Building for Road and Bridge Management.</li> <li>follow-up mission on the Yen Loan for the Construction</li> </ul>
Assin Praso- Bekwai Road	6th - 10th February 2017	<ul style="list-style-type: none"> <li>Ex-Post Evaluation of N8</li> <li>inspection of cracks in the abutment of the Assin -Praso bridge</li> </ul>

*Source: GHA Planning Division, December 2017*

**Table 18: Public Private Partnership Missions**

PROJECT	DATE	REMARKS
Public Private Partnership (PPP)	12-16 June 2017	<ul style="list-style-type: none"> <li>Review of on-going projects under (PPP)</li> </ul>

*Source: GHA Planning Division, December 2017*

**Table 19: Details of Consultancy Services**

Item	Contract Description	Contract/ Supplier/ Consultant	Services Contract In Dollar Amount (\$)	Services Contract In Ghana Cedis (GHS)	Date Signed Mm/dd/yr	Contractual Start Date Mm/dd/yr	Contractual Completion Date Mm/dd/yr	Extended Completion Date Mm/dd/yr	Remarks
<b>PROJECTS ON TSP</b>									
1	Construction Supervision of Rehabilitation of Ayanfuri-Asawinso Road (Lots 1)	GHA	\$ 20,694,136.81	GHS 13,641,596.55	1/10/2013	15/02/12	1/4/2015	31/12/2017	Progress of works as at December 2017, Lot1 99% achieved as against 99% as per revised programme.
2	Construction Supervision of Rehabilitation of Ayanfuri-Asawinso Road (Lots 2)	GHA	\$8,440,000	GHS29,300,000	1/11/2013	15/02/13	1/5/2015	31/12/2017	The project has been taken over on 24th August 2017.
3	Installation of Automatic Counters								A summary of Traffic Count Data from 3No. Automatic Traffic Counter(ATC) was installed in 2015 on N6, N10 and N8 have been submitted to the World Bank. 3No. Counter were also installed on the N1 in 2012. All the 6No. ATC need to be rehabilitated. A proposal to rehabilitate the ATCs will be submitted to GHA management for consideration.
<b>PROJECTS ON ALTHP</b>									
4	Consultancy Services for the Supervision of Rehabilitation of Agona Junction- Ebuo road. Lot1	K2 and Associate, Inc.	\$22,168,060.23	GHS15,215,000	15/08/2012	24/08/2012	08/01/2015	11/1/2017	Project is in defect liability period.
5	Consultancy Services for the Supervision of Rehabilitation of Agona Junction- Ebuo road. Lot2	K2 and Associate, Inc.	\$20,380,000	GHS29,925,000	15/08/2013		6/10/2015	11/1/2017	Project is in defect liability period.
6	Consultancy Services for the Supervision of Rehabilitation of Agona Junction- Ebuo road. Lot3	K2 and Associate, Inc.	\$20,380,000	GHS29,925,000	15/08/2013		6/10/2015	28/11/2017	Project was taken over on 20th November 2017.
7	Construction of Anyaado Rest Stop	Bans Consult		GHS23,809,250					The project is expected to end in February 2018.
<b>PROJECTS ON TSIP (TRANSPORT SECTOR IMPROVEMENT PROJECT)</b>									
8	The Assessment Study To Implement Output And Performance Based Road Contracts For The Upgrading Of Tatale-Zabuzugu- Yendi- Tamale Road (Section R201) 165.8km, Zabuzugu- Nakpali-Bimbila Road (Section R29/01) 73.6km And For Selected Feeder Roads In The Brong- Ahafo Region, Northern Region, Upper East Region, and Upper West Region(1360km) + Addendum	UWP Consulting(Pty) Ltd/ Knight Piesold Ghana Ltd	\$ 3,078,075.98		11/4/2017+ 13/06/2017 (Addendum)	11/5/2017	Jan-18		Assessment Study is ongoing. Consultant submitted Yendi- Bypass options Evaluation Report. Report is under review.
9	Individual Consultancy services as Social Safeguards Specialist For The Upgrading Of Tatale- Zabuzugu- Yendi- Tamale Road (Section R201) 165.8km, Zabuzugu- Nakpali- Bimbila Road (Section R29/01) 73.6km And For Selected Feeder Roads In The Brong- Ahafo Region, Northern Region, Upper East Region, and Upper West Region(1360km)	Joseph Ayitio	\$472,650.00		27/11/2017	1/8/2021			The Contract is signed. The Consultant has mobilized and commenced assignment.

DANIDA FUNDED									
10	Consultancy Services for Design Development, Detailed Design, Tender Document Preparation, Tendering Assistance and Construction Supervision of New Bridges in Northern Ghana.	Sweco	\$1,784,550			4/3/2013	4/3/2017		Evaluation of tenders is completed. Evaluation report is to be sent to Danida.
ORIO/GOG LOAN FUNDED PROJECTS									
11	Rehabilitation of Benchema-Adwufia Road								Draft Contract Document for works has been submitted to ORIO for "No Objection". Contract is yet to be signed with the Consultant.
BRAZILLIAN/GOG LOAN FUNDED PROJECT									
12	Consultancy Services for the Design Reviewed Construction Supervision of Eastern Corridor Roads Project Lot 5 (Oti Damango Bimbilla- Yendi) and Lot6 (Yendi-Sakrogu- Nakpanduri)	Associated Consultant	\$113,492,000			19/05/14	4/11/2016	/07/18	MRH has accepted the Addendum No. 1. The project has been extended to July 2018.
PUBLIC PRIVATE PARTNERSHIP									
13	Accra - Tema Motorway Expansion	Messrs Roughton International		GHS 1,811,371.88 Phase 1 (Feasibility Studies) and GHS 266,916.88 Phase 2 (Procurement of Investors)		4/9/2016	1/1/2019		The first publication Requesting For Qualification (RFQ) from potential bidders to submit their request was done on 8th December 2018.
14	Accra - Kumasi Dualisation Project	Messrs PWC							GHA and MRH has negotiated with Price Water House for restrictions of scope of project to ensure its viability and bankability as a PPP project.
15	Accra-Takoradi Dualisation Project	Feedback /GIBB	\$ 3,574,796.28						The Consultant has updated and submitted Prefeasibility report and has made a presentation on 19 December 2017 to GHA and MRH. GHA and MRH has approved the report and has requested Ministry Of Finance for approval inline with GHA PPP Policy.
16	Missions from Development Partners								There was a TSIP Mission from November 27- December 8, 2017 to assess progress made to ratify the loan ,review project implementation manual and reviewing all project.
PROJECT ON JICA									
17	Construction of a New Bridge Across the Volta River on the Eastern Corridor Project				8/9/2014				GHA has submitted a draft Request For Proposal (RFP) to JICA for their 'No Objection' for the Procurement of a Supervision Consultant.
18	Project For The Improvement of the Tema Motorway Roundabout	CTI Engineering International Co. Ltd							Three Consultants assisted GHA to procure a Contractor for the works. The works Contract was signed between Shimizu-Dai Nippon JV and GHA on 15 December 2017.
GOG									
19	Construction Services For Inventory and Condition Survey of Ghana Highway Authority Bridges (Lot1: Western and Central Regions)	Delin Consult Limited		GHS 980,504.45	1/3/2017	1/4/2017	1/10/2017		The Consultant has submitted their draft final report to GHA.
20	Construction Services For Inventory and Condition Survey of Ghana Highway Authority Bridges (Lot2: Greater Accra, Volta and Eastern Regions)	Associated Consultant		GHS 963,630	1/3/2017	1/4/2017	1/10/2017		The Consultant has submitted their draft final report to GHA.
21	Construction Services For Inventory and Condition Survey of Ghana Highway Authority Bridges (Lot3: Ashanti and Brong Ahafo Regions)	Comptan Engineering and Planning Associates		GHS 989,000	2/3/2017	2/4/2017	2/10/2017		The Consultant has submitted their Interim report to GHA.
22	Construction Services For Inventory and Condition Survey of Ghana Highway Authority Bridges (Lot4: Northern Upper East and Upper West Region)	Hag Consult Limited		GHS 988,522.50	2/3/2017	2/4/2017	2/10/2017		The Consultant has submitted his inception report and has raised certificate awaiting payment.
23	Consultancy Services For Consultancy Supervision Of Bolgatanga-Bawku-Polmankon Highway Including Bawku Bypass- 109KM								Central Tender Review Board(CTRB) has again raised objection on the Revised Combined Evaluation Report and GHA is in the process of submitting a second response to CTRB.
BANK OF GHANA									
24	Construction of Access, Diverging and Merging Lanes to the Cash Processing Center at the General Services Complex	GHA			3/8/2016	10/8/2016	10/2/2017		The Bank has approved the 3rd Revised Variation Order No.1. Notice to resume works, has been issued to the Contractor along with the Revised Drawings. The Contractor resumed work on 20 November 2017.
PLANNING DIVISION									
25	Budget Preparation	GHA							During the third quarter the section prepared the latest revision of the 2017 road fund budget for GHA. The total amount for the budget was GHS 75M.

Source: GHA Planning Division, December 2017

## 4.2 Development Projects

The approved Programme for development works in 2017 covered a total stretch of about 194.90 Km of trunk road network in the country. A total amount of GH¢ 222,277,489.00 was allocated in the year's budget for Development project. Details of the budget is given below

SOURCE OF FUNDING	AMOUNT(GH¢)
CF	37,500,000.00
ABFA	34,822,269.11
DONOR	149,955,220.00
<b>TOTAL</b>	<b>222,277,489.00</b>

### 4.2.1 New Projects

Table 20 gives the project that commenced in the year under review.

**Table 20: Projects Awarded in Year 2017**

NO.	PROJECT	AWARD DATE	COMMENCEMENT DATE
1	Rehabilitation of Kumasi-Sunyani Road(Sunyani-Duayaw Nkwanta Section) 33km	3-Nov-2016	28-Feb-2017

Source: GHA Contracts Division, December 2017

### 4.2.2 Completed Projects

Substantial Taking-Over Inspection was conducted for the following projects which were substantially completed in 2017 and temporarily taken over are as shown in Table 21. The projects will finally be taken over when all defects which manifest during the Defects Notification Period (DNP) are rectified by the engaged Contractors.

**Table 21: Projects Completed and Handed Over**

No.	Project	Date	Source of Funding
1	Emergency Works for Ho-Adidome Road(km 37.2-52.2)-Lot 3	12 <sup>th</sup> July 2017	GOG
2	Continuation of the Rehabilitation of Anyinam –Konongo Road(47km) Addendum No.5 –Asphaltic Overlay of Nkawkaw-Atibie Road(9km)	17 <sup>th</sup> November 2017	GOG
3	Rehabilitation of Ayamfuri-Asawinso-Lot 2)	24 <sup>th</sup> August 2017	World Bank (TSP)

Source: GHA Contracts Division, December 2017

### 4.2.3 Land Acquisition and Compensation Assessment

The Ghana Highway Authority pays compensation in accordance with Article 20 (2) of the 1992 Constitution and the State Lands Act 1963, Act 125 which set out modalities used in the acquisition of properties etc.

All assessments are jointly undertaken by the GHA Valuation Section and the Lands Commission as required by law.

As of 31<sup>st</sup> December, 2017, assessment and payment made as regards compensation on Thirty – Eight (38) road projects are as provided in the table below;

**Table 22: Compensation for PAPS**

Description	No. of PAPS	Approved/ Estimated Values (Gh¢)	Part Payment Made (Gh¢)	Balance To Be Paid
Compensation in respect of (Buildings/Structures, Crops/Farms, Bare Lands)	10,519	56,386,693.73	15,699,720.89	40,686,972.84

*Source: GHA Contracts Division, December 2017*

#### 4.2.3.1 Compensation Assessment yet to Commence

Assessment of the value of properties / crops that will be impacted by the following projects are yet to be made.

- a) The project for the implementation of Tema Motorway Roundabout
- b) Ajumako to Gomoa Ogua road project.
- c) Twifo Praso to Dunkwa road project.
- d) Asutuare-Aveyime Road Project
- e) Asutuare Junction-Asikuma Road Project
- f) Wa-Walewale Road Project
- g) Bawku-Polimakom Road Project.

Action will be initiated in 2018 for assessment of the properties / crops that will be impacted by the projects.

#### 4.2.4: On-Going Development Projects

Fifty-nine (59) road projects were ongoing during the year. The Government of Ghana is supported in financing some of these projects by development partners such as BADEA, IDA, AfDB, KfW, EU, SAUDI Fund, the ECOWAS Fund and the Chinese Government. Project status details are shown in Appendix B.

## 4.3 Ongoing Bridge Projects

- ❖ Construction of Austrian Bridges on Wa – Walewale road (5No. Bridges).  
The project has been divided into five Lots:

***Lot 1. Construction of Steel Bridge over River Gyanwali at Kundugu on the Yala-Kundungu- Sombisi Road. 35m Span.***

**Contractor:** M/S Mallam Issah Ishaku & Bros Ltd

**Contract Value:** GH¢2,584,437.66

**Award Date:** 6<sup>th</sup> October, 2011. Progress is 80%. Work has stalled due to lack of payment.

***Lot 2. Construction of Steel Bridge over River Kudage on the Sombisi – Tantali Road- 35m Span.***

**Contractor:** M/S Bachest Ghana Ltd

**Contract Value:** GH¢2,313,369.93

**Award Date:** 6<sup>th</sup> October, 2011. Progress is 76%. Work has stalled due to lack of payment.

***Lot 3. Construction of Steel Bridge over River Gongonwu on the Tantali –Tuvuu Road- 35m Span.***

**Contractor:** M/S Mawums Ltd

**Contract Value:** GH¢3,003,261.33

**Award Date:** 6<sup>th</sup> October, 2011

Progress is 100%. Final completion inspection was conducted in March, 2015

***Lot 4. Construction of Steel Bridge over River Gongonwu on the Tuvuu- Yikpabongo Road- 70m.***

**Contractor:** M/S Jiangxi Zhongmei Eng. Const. Co. Ltd

**Contract Value:** GH¢4,464,741.68

**Award Date:** 8<sup>th</sup> January, 2011

The initial location of the bridge was changed due to accessibility problems. The Contractor has written to GHA to discontinue the construction of the bridge. The bridge has been relocated to Nalerigu on the Karaga – Gushiegu – Nalerigu road in the Northern Region. Reconnaissance survey of the proposed location has been undertaken. GHA is waiting for the release of funds to commence the detailed studies. A new Contractor will have to be sourced after the completion of the detailed Engineering studies at the proposed location. Request for funds will be resubmitted

***Lot 5. Construction of Steel Bridge over River Kulpawn on the Luari-Jadima Road- Span is 140m.***

**Contractor:** M/S China Zhong Hao Ltd

**Contract Value:** GH¢6,910,533.70

**Award Date:** 6<sup>th</sup> October, 2011

Progress is 24%. The Contractor has suspended works due to lack of payment.

***Lot 6. Construction of Steel Bridge over the White Volta River at Mishuo. (Steel bridge of total span 210m)***

**Contractor:** M/S Tass Kalia Ent. Ltd

**Contract Value:** GH¢20,965,811.09

**Award Date:** 4<sup>th</sup> May, 2016. The Contractor is mobilizing to commence works

**Duration:** 24 months

No physical presence at the site

Pre-commencement meeting was held. Notice to commence works was not issued.



***Lot 7. Construction of Bridge over River Pra at Twifo Praso.***

A new bridge is to be constructed at Twifo Praso in order to separate vehicular traffic from rail traffic. It is a 175m span bridge comprising a steel section of 105m and a reinforced concrete section of 70m

**Contractor:** M/S China Railway No.5 Engineering Company

**Contract Value:** GH¢28,176,797.57

**Award Date:** 4<sup>th</sup> May, 2016.

Ground investigation was completed within the second quarter. The Contractor has also completed setting up his camp. The Contractor submitted an alternative Proposal which is a Reinforced concrete box girder bridge. The review of the alternate proposal has been completed. Approval has been received from the Ministry of Roads and Highways (MRH) and the Central Tender Review Board.

❖ ***Construction/Rehabilitation of Toll plaza on some selected trunk roads within the Country***

Bids were opened on 29<sup>th</sup> June, 2017. Evaluation of the tenders was completed within the second quarter. Evaluation report submitted to the Ministry of Roads and Highways (MRH) for approval. Awaiting response from MRH

❖ ***Construction of Toll plaza, office block at Akim Sekyere on the Anyinam-Nkawkaw Road.*** Progress is 97%.

**Contractor:** M/S Sambrain Tricosal Co.Ltd

**Contract Value:** GH¢3,013,934.95

**Award Date:** 19<sup>th</sup> July, 2012

**Initial Completion Date:** 18<sup>th</sup> July, 2013

**Final Completion Date:** 31<sup>st</sup> December, 2016

Final Completion Inspection was undertaken on 15<sup>th</sup> March, 2017. Defects Liability Certificate issued to the Contractor. The Contract is closed.

❖ ***Construction of Toll Plaza at Badukrom on the Cape Coast – Takoradi Road.***

**Contractor:** M/S Ba-Iseng Ltd

**Contract Value:** GH¢1,408,487

**Award Date:** 15<sup>th</sup> February, 2012

**Scheduled Completion Date:** 18<sup>th</sup> July, 2013

The Contract was terminated in December, 2015.

Cost to complete the outstanding works has been submitted to the Ghana Road Fund Secretariat.

❖ ***Rehabilitation of Adomi Bridge.***

**Contractor:** M/S Bilfinger MCE GmbH

**Contract Value:** €12,900,000.00

**Award Date:** 16<sup>th</sup> May, 2012

**Initial Completion Date:** 23<sup>rd</sup> May 2013

**Commencement Date:** 10<sup>th</sup> March, 2014

**Revised Completion Date:** 31<sup>st</sup> May 2015

Possession of site for the commencement of works at site was given to the Contractor on 10<sup>th</sup> March, 2014. Progress is 100%. Substantial Taking over Inspection was undertaken on 7<sup>th</sup> December, 2015. Defects were seen on the asphalt overlay on the deck during the Defect Liability Period. The Contractor is preparing to rectify the defects.

❖ **Construction of six bridges in Northern Ghana funded by Danida.**

The list of the bridges to be constructed under this project is as follows:

- Bridge No. 1 – Kulungugu – Upper East Region – 100m
- Bridge No. 2 – Garu (2no.) – Upper East Region – 100m
- Bridge No. 3 – Doninga – Upper East Region – 50m
- Bridge No. 4 – Sissili – Upper West – 125m
- Bridge No. 5 – Ambalara – Northern Region – 75m
- Bridge No. 6 – Kulun - Upper West – 100m

The design of the above bridges was undertaken by **M/S Grontmij A/S** now **Sweco** in association with **M/S HAG Consult**. Pre-qualification of Contractors was completed within the First Quarter. Tendering process is ongoing. Contractors to submit bids by 2<sup>nd</sup> November, 2017. Bids were received from Contractors within the fourth quarter and evaluation of the bids have been completed.

❖ **Construction of bridge over the Volta River at Volivo and Dufor Adidome.**

The Project consists of 540m long cable stayed bridge to be constructed over the Volta River. The bridge will have three spans (130m, 280m, and 130m). The project will enhance the capacity of the Eastern corridor roads and provides an alternative route across the Volta River apart from the Adomi Bridge. The loan agreement was approved by Parliament on 2<sup>nd</sup> November, 2016 and the loan agreement was signed on 30<sup>th</sup> November, 2016 between Government of Ghana and the Japanese Government. The amount of the loan facility is US\$100 million (11,239 billion Yen). As part of the project 70km new road will have to be constructed from Asutsuare junction through Volivo to Asikuma junction. The road project will be funded by the African Development Bank (AfDB) Request for Proposal for the Procurement of Consultants to supervise the works was prepared by GHA and JICA. Reviewed RFP has been received from JICA for review by GHA

❖ **Construction of ramps to existing six (6) Foot bridges on the George Bush Motorway – (N1).**

Drawings for the ramps to the six Foot bridges have been completed. The Contractor has suspended works due to lack of payment.

❖ **Construction of Two (2) underpasses on the George Bush Motorway – (N1).**

Review of design drawings is completed. Comments from the review of the drawing have been submitted to Contractors. Review of Bill of Quantities submitted by the Contractor has been completed.

❖ **Construction of Six (6) Foot bridges on the Madina – Pantang road.**

The Contractor has suspended works due to lack of payment and site constraints.

The locations for the footbridges are:

- Fire stone (Atomic junction)
- Zongo junction
- Redco junction
- Evangelical Presbyterian Church (EP)
- Seventh Day Adventist Church
- West African Secondary School

❖ **Rehabilitation of the Dunkwa Bridge.**

**Contractor:** M/S Syndicated Capital Ltd

**Contract Value:** GH¢ 1,920,104.09

**Award Date:** 26<sup>th</sup> September, 2016.

Works on the superstructure is ongoing. Contractor has submitted a request for Variation Order (V.O). The V.O is been prepared by GHA.

❖ ***Rehabilitation of the Nasia Bridge on the Tamale – Bolgatanga road.***

**Contractor:** M/S Logistics Services Ltd

**Contract Value:** GH¢ 1,650,462.85

**Award Date:** 26<sup>th</sup> September, 2016.

Contract has expired in September, 2017.

No activity was recorded within the period

❖ ***Rehabilitation of the Pwalugu Bridge on the Tamale – Bolgatanga road.***

**Contractor:** M/S Logistics Services Ltd

**Contract Value:** GH¢ 1,796,080.45

Contract has expired in September, 2017.

No activity was recorded within the period

**Award Date:** 26<sup>th</sup> September, 2016. The Contractor is mobilizing to site.

❖ ***Reconstruction of the Iture Bridge over the Sweet River on the Cape Coast – Takoradi road.***

Inspection report has been submitted to the Ministry of Roads and Highways. BMU has completed the repair works on the bridge. Messrs Sonitra has submitted a Technical and a financial proposal. Evaluation of the Technical and Financial proposal is ongoing

❖ ***Underwater Investigation of the Ankobra and the Lower Volta Bridge bridges foundation***

Inspection of the bridges has been undertaken. Request for approval to sole source Aquatec Marine International for the under water investigation of the bridge foundations has been submitted to the Public Procurement Authority.

❖ ***Construction of bridge over River Bechelihi and River Navaribie on the Navrongo – Chuchuliga – Tumu Road.***

Design drawings have been completed and forwarded to Ministry of Roads & Highways for approval. Reminder has been sent to the Ministry of Roads and Highways.

❖ ***Replacement of existing bridge over River Luwhe at Ada.***

Contractor has submitted design drawing to GHA for review. Comments from the review of the design drawings have been forwarded to the Contractor for modification.

❖ ***Rehabilitation of the Lower Volta Bridge (Replacement of Expansion joints).***

Approval has been granted by the Public Procurement Authority to sole source Messrs Mageba for the replacement of the expansion joint. Quotation was received from Messrs Mageba in US dollars but has been asked to resubmit quotation in Ghana Cedis.. Messrs Mageba has discontinued interest in the project. A new Contractor will have to be sourced. GHA has submitted a request for approval to procure the works for the replacement of the expansion joints

❖ ***Construction of two lane underpass to link Spintex and East Legon***

**Contractor:** M/S Sonitra

**Contract Value:** GH¢ 14,815,261.48

**Award Date:** 1<sup>st</sup> August, 2017

**Commencement Date:** 20<sup>th</sup> July, 2017

**Duration:** Ten (10) months

**Progress is 63%:** The Accra and Tema bound Tunnel has been completed. Works on the median to connect the two tunnels and the approach roads are ongoing.

❖ ***Construction of a double carriageway underpass at Ashaiman and ancillary works***

Preliminary studies are ongoing.

❖ ***Construction of a bridge at Nalerigu in the Northern Region***

Four (4) names of Contractors have been submitted to the Ministry of Roads and Highways (MRH) for approval to procure the works using Restricted Tendering. The bridge will be a reinforced concrete bridge.

❖ ***Construction of a bridge at Garu in the Upper East Region***

Estimates for the repair of the bridge works has been submitted to the MRH.

❖ ***Construction of Bolgatanga – Bawku - Polimakom road (116.1km)***

Draft final Design was submitted to GHA for review. Review has been undertaken and the Contractor has been asked to revise the span of the bridges from 16.7m to 26m minimum.

#### **4.3.1 Bridge Maintenance Unit – Activities**

- ❖ Repair of Yensiso Bridge. Progress is 60%
- ❖ Repair of Nalerigu Bridge. Progress is 100%
- ❖ Rehabilitation of the Black Volta Bridge at Buiepe. Progress is 100%
- ❖ Rehabilitation of the White Volta Bridge at Yapei. Progress is 100%

#### **4.3.2 Consultancy Services for the Inventory and Condition Survey of Ghana Highway Authority Bridges**

The project has been divided into four lots. Procurement of Consultants has been completed. Preparation of Contract document has been completed and waiting signing.

Lot 1 will be undertaken by Messrs Delin Consult. Messrs Delin Consult has submitted their Draft final report to GHA. Review of the Draft final report is ongoing.

Lot 2 will be undertaken by Messrs Associated Consultants Limited. Messrs Associated Consultants Limited has submitted their Draft final report to GHA. Review of the Draft final report is ongoing.

Lot 3 will be undertaken by Messrs Comptran Engineering Planning and Associates. Messrs Comptran Engineering Planning and Associates has submitted their interim report to GHA. Review of the interim report is ongoing.

Lot 4 will be undertaken by Messrs Hag Consults. Messrs Hag Consults has submitted their inception report to GHA. Review of the inception report was completed within the second quarter.

## **4.4. Survey and Design**

### **4.4.1 Review of Design Drawings & Reports**

During the year the following designs were done in-house

- ❖ Topographic survey and Geometric design of roads for the University of Health and Allied Sciences
- ❖ Topographic survey and Geometric design for the reconstruction of KeteKrachi - Kpandai - Nyankpanyili Roads (KM 88 - 123) &Wulensi Town Roads
- ❖ Topographic survey and Geometric design for the relocation of Toll Booths locations at Ayi Mensah, Oyibi, Moree, Boankra, Atimpoku and Akraide
- ❖ Topographic survey and Geometric design for the Expansion of three (3) bridges on the Accra - Tema Motorway
- ❖ Upgrading of Eastern Corridor Road (Have - Hohoe)
- ❖ Access road to Bedmate furniture
- ❖ Drainage design of Ofankor - Nsawam Roads

The following Design drawings were also reviewed and comments were forwarded to the appropriate quarters:

- ❖ Construction of Bokitsi Pit Temporary Road Diversion on the IR6 (02) Road; Ayanfuri - Bogoso Road
- ❖ Reconstruction of Hohoe - Jasikan Road (KM 21+750 - 32+250)
- ❖ Partial Reconstruction of Amanful - Nyakrom - Nkum - Bremang - Asikuma (KM 10 - 23.9)
- ❖ Upgrading of AssinNyankumasi - Senchem Road (KM 10 - 25)
- ❖ Denu - Keta Junction
- ❖ Kwame Danso - Kwadwokrom (KM 20 - 60)
- ❖ Likpe - Tomome revised drawings

### **4.4.2 Right-Of-Way Clarification**

A total of twenty (20) Right-of-way clarifications were carried out for developers along the MallamJunction- Winneba (N1), Accra - Nsawam (N6), Tema - Aflao (N1), Accra - Aburi (N4) and Accra - Tema Motorway.

The Lands Commission requested GHA to assist in the management of the Right - of - Way of trunk roads. Right - of - Way drawings were subsequently produced for the Accra - Aflao (N1), Accra - Cape Coast (N1), Accra - Aburi (N4), Accra - Kumasi (N6) and Awoshie - Pokuase.

## **4.5 Quality Control on Projects**

GHA ensures Quality Control (QC) and Quality Assurance (QA) of on-going and completed Development and Maintenance projects through its materials laboratories in all the regional offices and a well-resourced Central Materials Laboratory (CML) in Accra. CML undertakes other destructive and non-destructive investigations for distressed sections of ongoing, completed

Development and Maintenance projects as well as requests for tests by external customers. It also undertakes research and analysis into the use of new road construction materials and chemicals, to ascertain their effectiveness in the improvement of the index properties of road pavement materials. Some of the activities carried out during the year are as follows.

#### **Deflection tests were performed on the following roads:**

- ✚ Accra – Tema Motorway Roundabout
- ✚ Bunsu Junction – Anyinam – Konongo – KNUST, Kumasi Road
- ✚ A section of the Dual Carriageway in Kintampo town.
- ✚ Selected Arterials and Collectors in Tema Municipality.
- ✚ Suitability of the existing pavement of an access road onto the Accra-Tema Motorway.
- ✚ In-situ soil testing on Tarkwa – Abooso – Huni Valley – Damang Road
- ✚ Roughness measurement on Trunk Roads in Central, Western, Volta, Eastern and Greater Accra Regions.
- ✚ Deflection test on Tatale-Zabzugu-Yendi-Tamale Road.
- ✚ Feasibility Studies on Dome-Kwabanya-Berekuso-Kitase Road.
- ✚ Deflection measurement on Biriwa – Takoradi Road.
- ✚ Core cutting and retrieval for test on the Adomi Bridge deck.



#### **The Bituminous Products Tested:**

- ✚ Review of progress reports from road projects
- ✚ Tests on bitumen samples and asphalt mixes submitted by Bitumen Marketers, Contractors and Consultants.
- ✚ Asphaltic Concrete mix designs checks for Eastern Corridor Road (Asikumah Junc– Hohoe – Jasikan Road), Accra-Tema Motorway Roundabout Improvement Works and core density tests on some portions of Urban Roads in Accra, Tema, Takoradi and Ho Town Roads
- ✚ Asphaltic Concrete mix designs checks for the Takoradi by-pass.

## 4.6 Project Preparation Activities

Various activities which pertain to project preparation namely vetting and approval of Interim Payment Certificates, vetting of all Variation Orders for approval, preparation of Engineer's Estimate for procurement of new projects, preparation of Bill of Quantities, Tender Documents and opening and evaluation of tenders, etc. were carried out on new and ongoing projects where appropriate.

A total of 925 certificates were vetted and passed at the close of the year 2017 which is broken down as follows;

 Development Projects	- 85
 Maintenance Projects	- 840

Other works vetted at the close of the year 2017 include Twenty (20) Variation orders, Fifty three (53) Cost Estimates and Thirty eight (38) Engineer's Estimates.

Table 23 below shows the summary of total corrections made to interim payment certificates submitted for payment for the year 2017:

**Table 23: Corrected Invoices on Interim Payment Certificates**

<b>Totals</b>	<b>Submitted Amount GH¢</b>	<b>Corrected Amount GH¢</b>	<b>Savings</b>
<b>1<sup>ST</sup> Quarter</b>	GH¢64,788,685.72 US\$72,986.33	GH¢51,450,931.90 US\$12,829.94	GH¢13,337,753.82 US\$60,156.39
<b>2<sup>ND</sup> Quarter</b>	GH¢113,513,622.15	GH¢102,145,960.25	GH¢11,366,661.90
<b>3<sup>RD</sup> Quarter</b>	GH¢68,399,668.43	GH¢65,449,400.79	GH¢2,950,267.64
<b>4<sup>TH</sup> Quarter</b>	GH¢110,935,542.35 €622,682.79	GH¢105,492,250.75 €538,144.00	GH¢5,443,291.60 €84,538.79
<b>Total</b>	<b>GH¢357,637,518.65</b> <b>US\$72,986.33</b> <b>€622,682.79</b>	<b>GH¢324,538,543.69</b> <b>US\$12,829.94</b> <b>€538,144.00</b>	<b>GH¢33,098,974.96</b> <b>US\$60,156.39</b> <b>€84,538.79</b>

*Source: GHA Quantity Surveying Division December 2017*

## 4.7 Axle Load Control Programme

Eighteen (18) Permanent Weighbridge Stations (PWS) have been established to date in the various corridors. The operations at all the weighbridge stations are detailed in Table 24 below.

**Table 24: Status of Permanent Weighbridge Stations**

Town/City	Location	Strategy	Status	Remarks
1. Tema	Aflao-Elubo road (Coastal Corridor)	Corridor/cordon	Privatised	Operational. To be relocated to a new section on the Motorway.
2. Afiénya	(Eastern Corridor)	Corridor/cordon	Privatised	Operational.
3. Asuoyeboah		Corridor/cordon	Privatised	Operational. Parking area required
4. Yapei	Tema – Paga Road (Central Corridor)	Corridor	Privatised	Not Operational. Mobile Weighing Van is being used
5. Bolgatanga	Tema – Paga Road (Central Corridor)	Corridor	Privatised	Operational.
6. Elmina	Aflao-Elubo road (Coastal Corridor)	Corridor	Privatised	Operational.
7. Agona Junction	Aflao-Elubo road (Coastal Corridor)	Corridor	Privatised	Operational. Additional parking space required.
8. Bogoso	(Western Corridor)	Corridor /Hotspot	Privatised	Operational. Renovation works completed. Rehabilitation of driveway and parking area required.
9. Offinso	Tema – Paga Road (Central Corridor)	Corridor/cordon	Privatised	Operational. Equipment to be upgraded. Additional Parking area required.
10. Boankra	Tema – Paga Road (Central Corridor)	Corridor/cordon	-	Operational.
11. Akatsi	Aflao-Elubo road (Coastal Corridor)	Corridor	Privatised	Operational. Parking area and driveway to be rehabilitated.
12. Mim		Hotspot	Privatised	Operational.
13. Sefwi Bekwai		Hotspot	Privatised	Operational.
14. Asokwa		Corridor	Privatised	Operational. Renovation works halted due to inadequate funding
15. Jema	Tema – Paga Road (Central Corridor)	Corridor	Privatised	Operational.
16. Sawla	Fulfusu-Sawla	Corridor		Operational.
17. Damango	Wa-Sawla	Corridor		Operational.
18. Aflao Border		Hotspot		Operations yet to commence

**Source: GHA Road Safety & Environment Division December 2017**

### Mobile Vans

Four (4) out of the eight (8) Mobile Weighing Vans functioned effectively during the reporting period. These vans operated in the Ashanti, Western, Brong Ahafo, Upper East, and Greater Accra Regions. However, during parts of the third and fourth quarters of the year, three out of the four functioning Mobile Vans were assigned to Techiman, Yapei and Buipe on the N10 for the enforcement of the 20 tonnes load restriction on the Yapei and Buipe bridges before their full closure in December, 2017. The remaining four had challenges with the vehicles and the weighing equipment.

### High Speed Weigh In Motion (HSWIM)

Eleven (11) HSWIM systems have been installed at the following sites: Tema, Dawa, Nsawam, Elmina, Bolgatanga, Agona Junction, Boankra, Akom, Ngleshie Amanfrom, Sawla and Damango. Seven (7) out of the eleven (11) sites were functional during the year under review. The remaining



four (4) sites require replacement of the sensors which has been programmed for in our 2017 programme.

### **Portable Weighing Scales**

Portable scales were deployed at Doboro, New Akrade and Adidome for 24-hour monitoring of axle loads on the Ofankor – Nsawam, Tema - Akosombo and Sogakope - Adidome Roads respectively. The Juapong check point was closed during the year due to operational challenges at the site. A proposal for construction of two new permanent weighbridge stations at Jasikan and Oti Damanko on the Eastern Corridor is under consideration.

### **Axle Load Control at the Ports**

The axle weighers and portable weighing pads located at the Tema and Takoradi Ports were operational during the reporting period. Additional axle weigher is required at the Golden Jubilee Terminal to control over loading of trucks loading from that terminal.

### **Installation of Axle Load Control Database System**

A Database System has been installed at fourteen (14) operational stations and the Head office. The Database System facilitates the compilation of data at the axle load stations and reporting in general.

#### **4.7.1 Statistics from the Axle Load Stations**

The total number of trucks weighed during the year at the Permanent Weighbridge Stations was recorded as 219,890. The number of overloaded trucks was recorded to be 6,675 representing 3.05% of the total vehicles weighed. The data used for the analysis is the gross weights of vehicles weighed at all the permanent weighbridge stations. Even though the total number of vehicles weighed increased each year over the time, the number of overloaded vehicles has decreased as depicted in Figure 6. In addition, the extent of overload above the permissible gross weight limits has also decreased significantly.

Figure 7 shows the quarterly overloading trends of the year 2017 shows a gradual increase in the percentage of overloaded trucks from 2.51% at the end of the first quarter to 3.21 percent at the end of the fourth quarter of 2017.

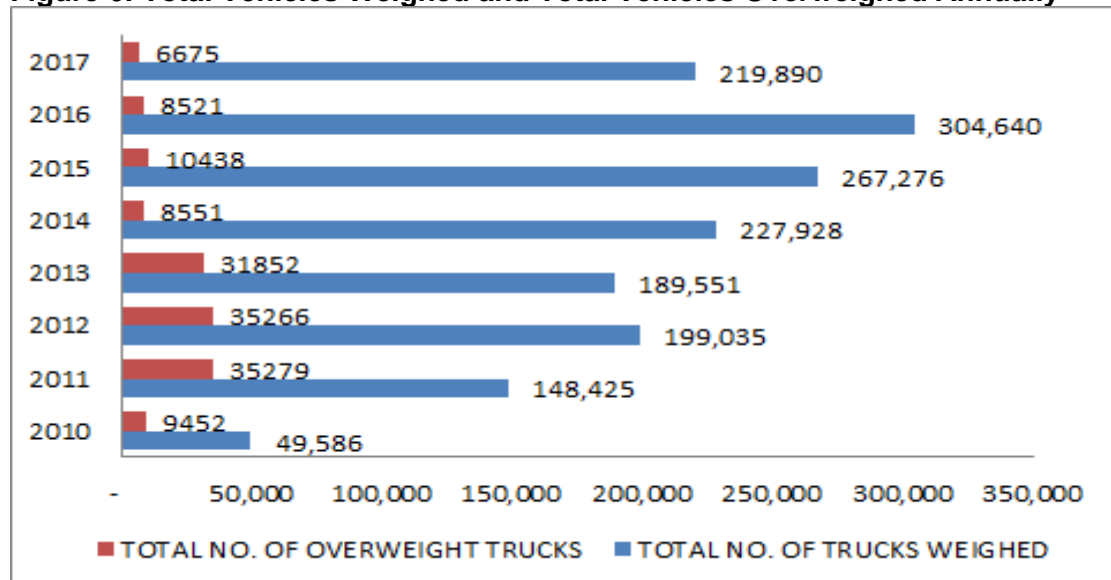
The figure 8 depicts the monthly overloading trend from January to December 2017. The trend showed an increase in overloading from 2.3% in January to 3.67% at in December. This trend may be as a result of effective monitoring on some alternative routes which were hitherto used by overloaded trucks to avoid the permanent weighbridge stations.

The distribution of the total number of vehicles weighed and the total over loaded at the various weighbridge stations is provided in in figure 9.

The levels of overloading at the permanent weighbridge stations along the various corridors during the fourth quarter are presented in figure 10

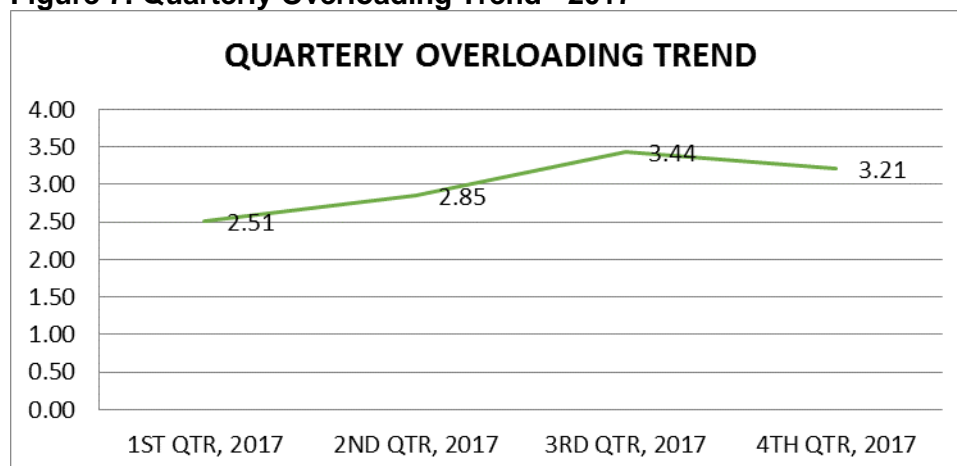
The annual average in the level of overloading from 2010 to 2017 has been provided in figure 11 The figure demonstrates a significant decline in the percentage of overloaded trucks from an average of 23.77% in 2011 to 3.04% in 2017.

**Figure 6: Total Vehicles Weighed and Total Vehicles Overweighed Annually**



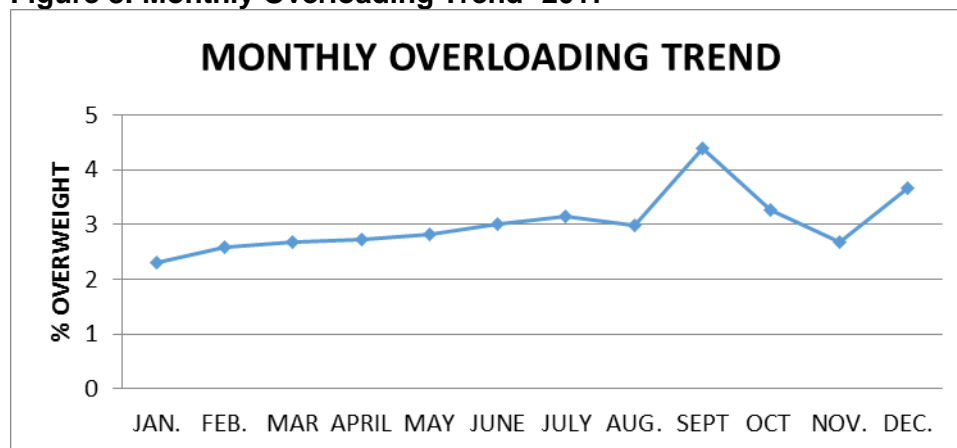
Source: GHA Road Safety & Environment Division December 2017

**Figure 7: Quarterly Overloading Trend - 2017**



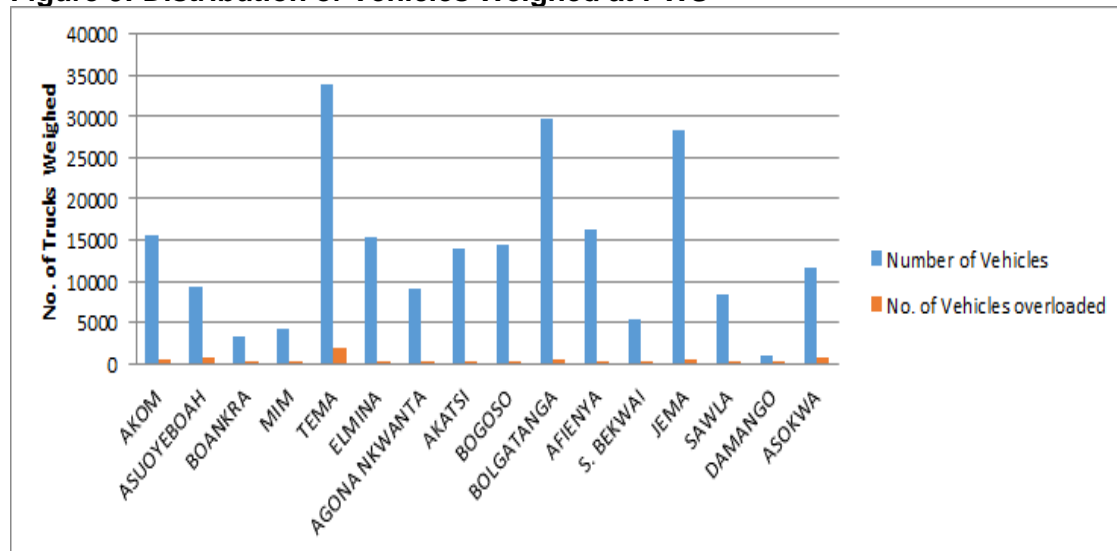
Source: GHA Road Safety & Environment Division December 2017

**Figure 8: Monthly Overloading Trend- 2017**



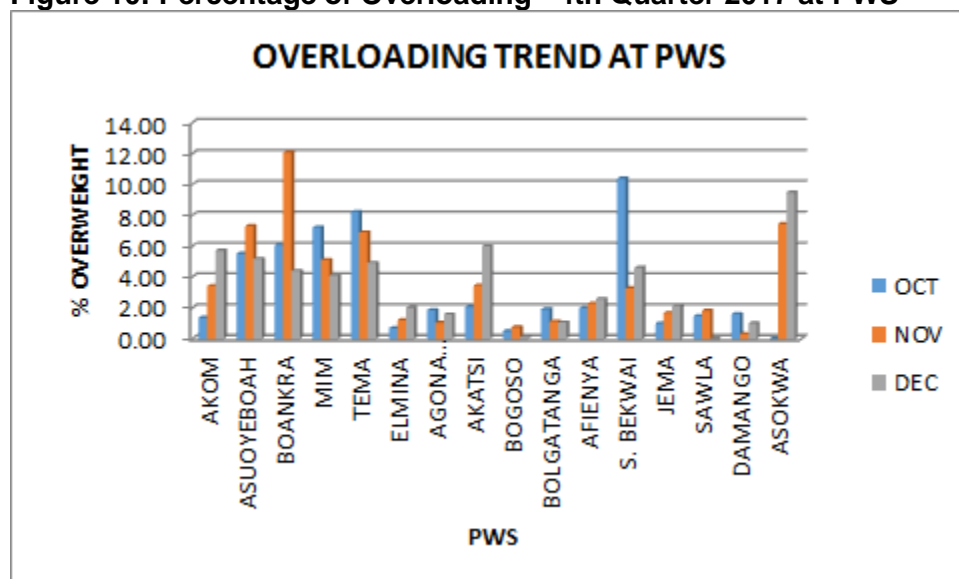
Source: GHA Road Safety & Environment Division December 2017

**Figure 9: Distribution of Vehicles Weighed at PWS**



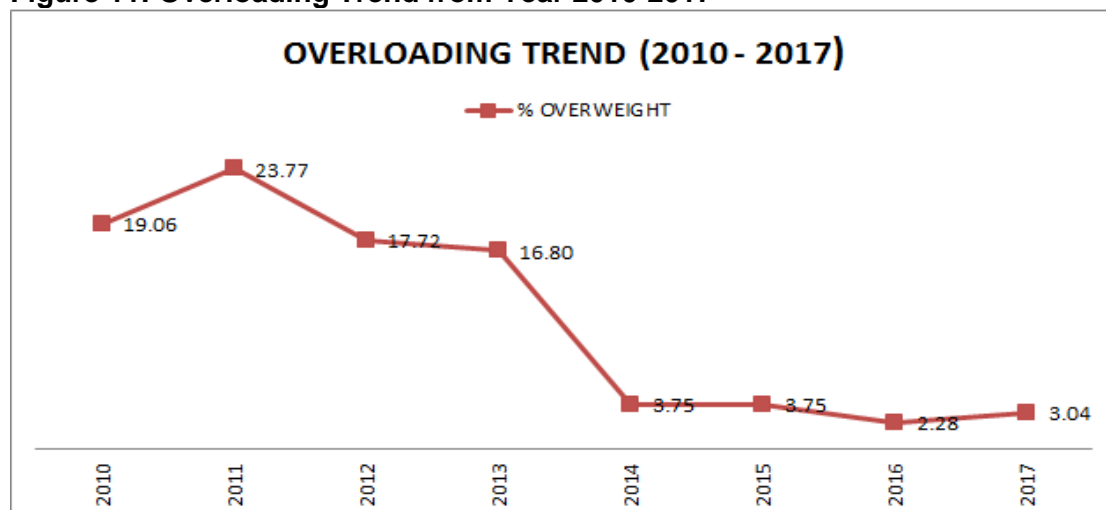
Source: GHA Road Safety & Environment Division December 2017

**Figure 10: Percentage of Overloading - 4th Quarter 2017 at PWS**



Source: GHA Road Safety & Environment Division December 2017

**Figure 11: Overloading Trend from Year 2010-2017**



Source: GHA Road Safety & Environment Division December 2017

## Overloading Fees

The total amount fines collected for overloading during the year under review amounted to **GH¢ 5,209,802.02.**

## 4.8 Road Safety Activities

Road safety activities carried out on trunk roads included the following

- Road Safety Audit;
- Accident black spot investigations and improvement
- Training of Consultants
- Road Furniture and Remedial Works;
- Environmental Management
- Research, Monitoring and Evaluation

Various stages of Road Safety Audits were carried on the following roads during the year under review in the various regions as detailed below:

### Western & Central Region

- ✚ Road Safety Assessment for speed humps at Dumasi (Bogoso – Prestea Highway).
- ✚ Road Safety Assessment for an intersection at Prestea Town to resolve traffic conflict.
- ✚ Inventory for Line Marking on Cape Coast – Twifo Praso Highway. (5km)
- ✚ Inventory for Line Marking on Cape Coast – Twifo Praso Highway. (10km)
- ✚ Inventory for Line Marking, Pedestrian Crossing, Speed Humps and Road Signs on Tarkwa – Aboso – Huni Valley – Demang. (Lots 1,2 &3)
- ✚ Supervision of Road Line Marking on Cape Coast – Twifo Praso Highway.
- ✚ Road Safety Assessment for Speed Humps at Dumasi (Bogoso – Prestea Highway).
- ✚ Road Safety Assessment for an intersection at Prestea town to resolve traffic conflict.
- ✚ Road safety assessment on the Apimanim – Elubo road for the construction of the construction of fuel service station by Vaah Petroleum.
- ✚ Black spot investigation on the Upgrading of Tarkwa – Aboso – Huni Valley – Damang highway
- ✚ Supervision of speed hump construction on the Yamoransa – Assin Fosu highway
- ✚ Inspection of constructed speed humps on Takoradi – Tarkwa highway
- ✚ Road safety assessment upon request for the construction of speed humps at the following towns along Yamoransa – Assin Fosu Highway;
  - Bataaya
  - Edumfa
  - Abura Dunkwa
  - Katakyaase
  - Assin – Fosu
  - Juaso
- ✚ Scheme for line marking on the Yamoransa – Assin Fosu highway lot 3
- ✚ Scheme for line marking on the Yamoransa – Assin Fosu highway lot 19
- ✚ Road safety assessment for the relocation of the Ankobra toll booth.

## Eastern & Volta Region

- ✚ Inventory for Road Line Marking, Road Signs and Speed Humps on Tafo – Kukurantumi – Bunso Highway.
- ✚ Supervision of speed table construction on Nkurakan Adukrom Highway
- ✚ Supervision of line marking on resealing of Mamfe – Koforidua highway lot 4
- ✚ Inventory for speed table construction on Mamfe – Adukrom – Trom junction
- ✚ Supervision of safety scheme implementation at Bunso junction
- ✚ Inventory for road traffic sign and line markings on resealing of Asikuma – Junction – Ho highway. Lot 2
- ✚ Inventory for road traffic signs on resealing of Mamfe – Koforidua highway lot 4
- ✚ Inventory for road traffic signs on resealing of Asikuma junction – Ho project. Lot 2
- ✚ Inventory for road signs for resealing of Mamfe – Koforidua road project. Lot 4

## Ashanti & Brong Ahafo Region

- ✚ Road safety assessment on Offinsu tollbooth
- ✚ Road safety assessment on Kuntense – Obonu highway (Obono scarp)
- ✚ Inventory for line marking, road signs, crash barrier on Abono road completed
- ✚ Road safety inventory for provision and installation of road signs, land marking crash barriers
  - on upgrading of Kintampo new – Longoro highway (15km)
- ✚ Inspecting of site for speed table at Bremang (N10)
- ✚ Road safety audit on Kumasi-Sunyani highway
- ✚ Site inspection for provision for provision of pedestrian crossing at Duayaw-Nkwanta highway (N6)
- ✚ Road safety assessment of site for speed table at Kona on Manpong road (IR8)
- ✚ Road safety inventory for provision and installation of road furniture along Kintampo – Banboi road
- ✚ Inspection of sites for construction of speed tables along Kumasi – Bibiani road
- ✚ Schedule of work for road line marking, traffic road signs, crash barriers for the following;
  - Mampong – Ejura road (Lot 8)
  - Mampong – Ejura road (Lot 1)
  - Accra – Dadieso road (lot 1)
  - Kumasi – Ahiankwanta road (lot 5)
  - Supervision of installation and maintenance of street lights from Suame roundabout to Afrancho
  - Traffic studies on Kumasi – Nkwie road.
  - Traffic studies on Kumasi – Obuasi road.

## Northern, Upper East & Upper West Regions

Road Safety inspection of the under-listed roads to ascertain status of road furniture in order to design intervention measures to avert possible road crashes and fatalities:

- ✚ Yendi – Tamale highway
- ✚ Yendi – Bimbilla highway
- ✚ Yendi – Sapigu – Chereponi highway
- ✚ Buie – Pigu highway
- ✚ Tamale - Salaga highway
- ✚ Road safety assessment of upgrading of Wa – Han highway project
- ✚ Route assessment of Yendi – Tamale highway
- ✚ Road safety assessment of Hamile – Tumu highway
- ✚ Work zone safety assessment of Busunu - Daboya highway

- ✚ Supervision of provision and installation of emergency road signs at the approaches to the Yapei and Buipe bridges
- ✚ Inventory of road safety furniture on – Tamale - Buipe, Paga – Bamboi - Sawla, Sawla – Nyoli – Wa, Wa – Hamile and Wa – Han highways
- ✚ Work zone safety assessment of:
  - Wa – Walewale highway
  - Tumu – Han – Lawra highway
  - Walawale – Gambaga – Nakpanduri highway
  - Yendi – Oti Damanko highway
- ✚ Safety assessment of 'Upgrading of Walewale – Gambaga – Nakpanduri road project.
- ✚ Safety assessment of 'Upgrading of Sakplegu – Chereponi – road project.
- ✚ Preparation of road line marking schedule and supervision of traffic road sign installation on Tamale – Kumbungu road project.

#### **4.8.1 Environmental Management**

GSMF conducted training programmes for peer educators in Paga, Bolga, Buipe and Kintampo as part of the implementation of the HIV/AIDS Action Plan on the Tema-Paga Road Corridor. GHA assisted and supervised an HIV/AIDS and Malaria Education on Navrongo-Chuchuliga-Tumu Road Project.

#### **Review of Environmental and Social Management Framework (ESMF) and Resettlement Policy Framework (RPF)**

GHA and Safeguards officers of Urban and Feeder Roads assisted the Individual Consultant engaged by MRH to review the 2007 ESMF and RPF. The main objective of the review was to incorporate into the 2007 ESMF and RPF the new concept of the output and performance-based contracting (OPRC) and public-private partnership (PPP) instruments for the management and maintenance of roads to be implemented under the Transport Sector Improvement Project (TSIP) and in future projects.

Additionally, an Environmental Social Assessment (ESA) has been prepared for the TSIP, which deals with anticipated impacts associated with the Tamale-Yendi-Tatale Road Project.

Disclosure notices were published in the national dailies and stakeholder consultations are currently ongoing.

#### **World Bank Funded Projects**

The Authority with a team from the World Bank undertook a joint supervision mission to monitor the implementation of the environmental and social safeguards on the Agona Junction-Elubo (ALTTFP) and the Ayamfuri - Asawinso (TSP) projects.

#### **RAP Implementation on the Agona Junction-Elubo (ALTTFP)**

The Agona Junction-Elubo Road Rehabilitation Project commenced with the compensation assessment in 2009 and a Resettlement Action Plan (RAP) prepared in accordance with the tenets of the program.

In 2012, the RAP was updated due to changes in the design/road alignment and time lapse. The Ministry of Finance released funds for compensation payment. The payment of compensation started in December 2012 and ended in August 2017.

A total of **5,416** Project Affected Persons (PAPs) have received their compensation in the total sum **GH¢27,660,228.02**. The affected properties included buildings/structures, crops and rubber plantations.

#### **Payment of Compensation on TSP Ayanfuri - Asawinso Road Project**

A total amount of **GH¢5,308,377.12** has been paid in both **Lots 1 and 2**. The outstanding compensation amounts to **GH¢5,925,892.09** as at December 2017.

## 4.9 Road Maintenance Projects

A total of 14,138km of Routine Maintenance activities was achieved out on approved annual programme of 17,511.80km. A total of 351.30km of periodic maintenance works were achieved out of an annual programme of 1,327km during the year under review annual.

The details of achievements for the various activities in both routine and periodic maintenance activities are shown in table 25 and figure 12.

**Table 25: Achievements in Maintenance Projects: 2017**

GHANA HIGHWAY AUTHORITY											
ACHIEVEMENTS IN ROUTINE AND PERIODIC MAINTENANCE WORKS											
2017											
ACTIVITY	2017 PLANNED PROGRAMME		2017 APPROVED PROGRAMME		1ST QUARTER ACHIEVEMENT	2ND QUARTER ACHIEVEMENT	3RD QUARTER ACHIEVEMENT	4TH QUARTER ACHIEVEMENT	CUMM. ACHIEVEMENT	ACHIEVEMENT PER PLANNED PROGRAMME (%)	ACHIEVEMENT PER APPROVED PROGRAMME (%)
ROUTINE MTCE	UNITS		UNITS								
Grass Cutting	Km	10,674.00	Km	6,814.00	110.18	2,383.17	2,387.85	4,840.91	9,722.11	91.08	142.68
Culvert Cleaning & Desilting (No.)	No.	23,162.00	No.	12,708.00	1,188.00	1,998.00	922.90	1,022.70	5,132	22.16	40.38
Ditch/Drain Cleaning/Sweeping of Arte. RDS	Km	6,960.00	Km	4,176.00	843.00		181.00	181.00	1,205.00	17.31	28.86
Grading Gravel Surface & Ditch Cleaning	Km	5,798.00	Km	1,740.00	106.30	1,582.47	527.34	629.20	2,845.31	49.07	163.52
Pothole Patching & Grade High Shoulders	Km	4,692.80	Km	1,408.00	488.99	719.12	1,101.72	1,429.55	3,739.38	79.68	265.58
PERIODIC MTCE											
Regravelling/Spot Improvement	Km	239.40	Km	13.60	13.94	28.10	13.87	20.10	76.01	31.75	558.90
Resealing	Km	153.30	Km	8.20	2.51	6.10	10.97	23.56	43.14	28.14	526.10
Partial Reconstruction	Km	58.10	Km	14.08	12.52	17.50	4.12	4.12	38.26	65.85	271.73
Overlay	Km	12.84	Km	5.13							
Drainage Structures & Bridges	GH¢'M	58.15	GH¢'M	3.87							
Upgrading	Km	52.80	Km	1.02	1.27	59.50	39.14	21.67	121.58	230.27	11919.61
Rehabilitation of Town Roads	Km	9.57	Km	3.13	2.78		0.81	0.81	4.40	45.99	140.58
Reconstruction, Rehabilitation & Construction (Former Enhanced Projects)	Km	801.00	Km	5.20	27.91	26.90	9.83	3.27	67.91	8.48	1,305.96

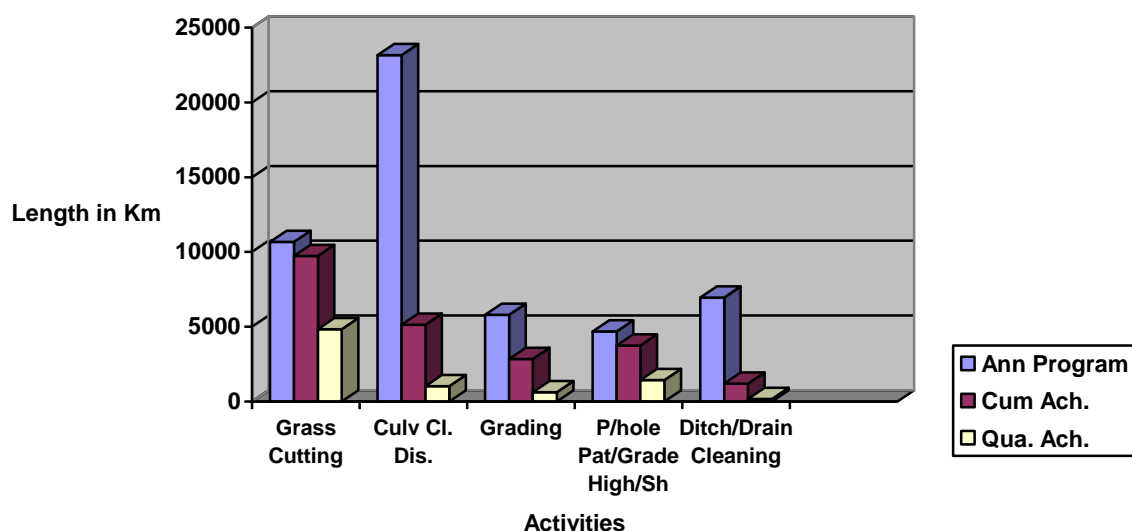
\* APPROVED PROGRAMME ACHIEVES A QUARTER OF THE 2017 PLANNED PROGRAMME FOR PERIODIC MAINTENANCE.

**Source: GHA Maintenance Division December 2017**

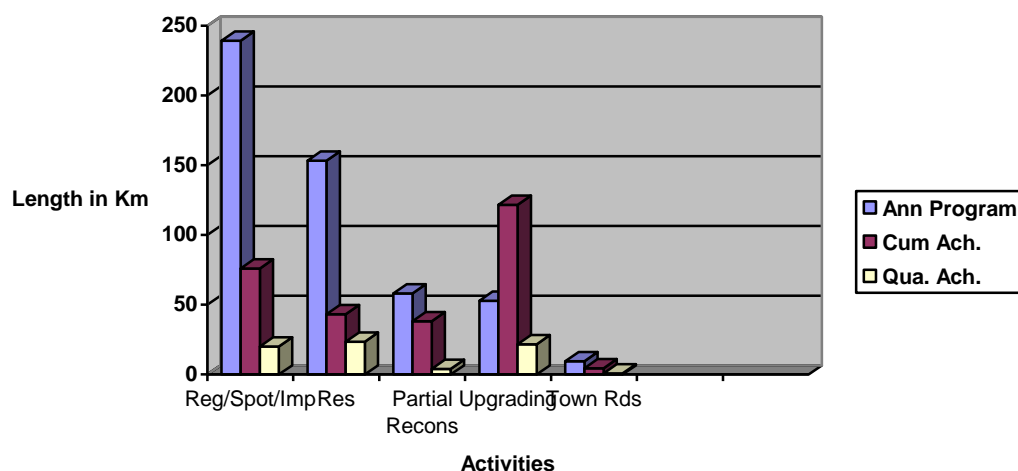


**Figure 12: Graphical Presentation of Achievements in Maintenance Activities**

**Achievements in Routine Maintenance Activities  
as at the End of Year 2017**



**Achievements in Periodic Maintenance Activities as at the end of the  
Year 2017**



**Legend**

**Reg:** Regravelling  
**Res:** Resealing  
**Spot Imp:** Spot Improvement

**Tn.Rds:** Town Roads  
**Culv. Cl. Dis:** Culvert Cleaning & Desilting

**Source: GHA Road Maintenance Division December 2017**

Annual Program for Routine and Periodic Maintenance for the Bar Chart Above is based on the Year 2017 Planned Program Please refer to Table 25 above for details

### 4.9.1 Completed Projects

The table 26 below shows the projects that were completed in the year under review and taking over inspections conducted

**Table 26: Completed Projects Year 2017**

NO.	REGION	PROJECT
1	BAR	Regravelling and Spot Improvement of Prang-Kintampo Road (km 16.0 - 21.0) Lot 3
2	UWR	Regravelling of Tumu-Gwollu-Hamile Road (km 45.0-55.0) Lot 1
3	BAR	Upgrading of Ampomah - Anyima Road (km 0.00 - 9.2)
4	UWR	Regravelling of Zini-Lambussie Road (Km 0-5) Lot 1
5	UWR	Regravelling of Zini-Lambussie Road (Km 5-10) Lot 2
6	UWR	Upgrading of Nadowli-Lawra-Hamile Road (km 0-45) Lot 7

**Source: Road Maintenance Division December 2017**

### 4.9.2 Ongoing Projects

Currently there are Five Hundred and Seventy-Two (572) on-going maintenance projects including Cocoa Roads. The breakdown into various activities is as in Table 27.

**Table 27: On-going Maintenance Projects**

ACTIVITY	NO. OF PROJECTS/SOURCES OF FUNDING					LENGTH (KM)
	CONSOLIDATED FUND	GOLD FIELDS GHANA LIMITED	ROAD FUND	"ENHANCED" ROAD FUND	COCOBOD	
REGRAVELLING/ SPOT IMPROVEMENT	2		54			431.10
RESEALING	1		32	1		227.10
PARTIAL RECONSTRUCTION	11		4	2	22	650.24
SECTIONAL REPAIRS/PARTIAL RECONSTRUCTION/ ASPHALTIC OVERLAY	1		1	1		52.20
TOWN ROADS	4		1			32.00
UPGRADING	44		8	17	31	1,896.00
REHABILITATION (UNPAVED)	1			3		137.00
REHABILITATION (PAVED)	6	3	2	7	4	432.10
RECONSTRUCTION			1	1	4	143.10
CONSTRUCTION				2	4	247.50
CONSTRUCTION/ REHABILITATION				1		11.95
BRIDGE/DRAINAGE STRUCTURES			295		1	
<b>TOTAL</b>	<b>70</b>	<b>3</b>	<b>398</b>	<b>35</b>	<b>66</b>	<b>4,260.29</b>

*Source: Road Maintenance Division December 2017*

#### 4.9.2: Substantially Completed projects

The following projects are substantially completed during the year under review are shown on Table 28.

**Table 28: Substantially Completed Projects 2017**

NO.	REGION	PROJECT
1	CR	Partial Reconstruction of Essiam Town Roads (3.5Km)
2	ER	Partial Reconstruction of Adeiso - Asamankese Road (Km 0-10)
3	ER	Partial Reconstruction of Suhum - Asamankese Road (km 20-30)
4	ER	Partial Reconstruction of Nsawam (Adeiso) - Asamankese Road (Km 10-24)
5	VR	Partial Reconstruction of Have-Kpando Road (KM 0 - 10)
6	BAR	Upgrading of Duayaw Nkwanta Roads (2.0km)
7	BAR	Upgrading of Kofibadukrom Jn - Kofibadukrom Road (Km 0-5)
8	BAR	Upgrading of Dormaa Ahenkro-Nkrankwanta Road (Km 10-20)
9	CR	Upgrading of Dunkwa - Twifo Praso - Assin Fosu Road (20Km)
10	GAR	Upgrading of Oyibi -Ashaiman Road (km 0-11.7)
11	NR	Upgrading of Walewale-Gambaga Road (Km 27-38)
12	NR	Upgrading of Tamale-Tolon-Daboya Road (Km 13.2-19.8, 22.2-25.6)
13	NR	Upgrading of Daboya-Mankarigu-Wiasi Road (km 0.00-10.00)
14	VR	Upgrading of Have-Kpando Road (Km 10-30)
15	VR	Upgrading of Kete Krachi - Buya Road (Km 10-30)
16	WR	Upgrading of Daboase - Atieku Road (Km 7 - 33)
17	WR	Upgrading of Daboase - Atieku Road (Km 33 - 59) Lot 2
18	WR	Upgradng of Enchi - Dadieso Road (Km 30-50)
19	WR	Upgrading of Akontonbra - Bodi Road (Km 0-15)
20	WR	Upgrading of Akontombra - Sefwi Wiawso Road (Km 0-10)
21	UER	Rehabilitation Of Selected Roads In The Upper East Region Bolgatanga-Bongo Road Winkongo-Tongo Road Navrongo-Tumu Road (16.2km) & V. O. No. 1 (8.0)km)
22	WR	Construction of Bridge over River Fure (Prestea-Samreboi Road)

**Source: GHA Maintenance Division December 2017**

### 4.9.3 GHA Mobile Maintenance Units

The Authority has three Mobile Maintenance Units: Mobile Maintenance Unit I (MMU I), Mobile Maintenance Unit II (MMU II) and a Bridge Maintenance Unit (BMU). **MMU I** which, is based at Techiman in the Brong Ahafo Region is responsible for the northern sector of the country. **MMU II** is based at Suhum in the Eastern Region, is responsible for the southern sector of the country.

Both Units carry out routine and periodic maintenance works on the roads in their respective sectors.

The Bridge Maintenance Unit is responsible for maintaining and repairing defective bridges and major culverts in the country. The Unit has two camps, one at Kukurantumi in the Eastern Region and the other at Techiman in the Brong Ahafo Region taking care of all bridges in the southern sector and the northern sector of the country respectively.

Details of work executed during the year by the Units are as shown in the Table 29.

**Table 29: Achievements by Mobile Maintenance Units Projects 2017**

PROGRESS REPORT ON WORKS EXECUTED BY GHA UNITS IN AS AT 31ST DECEMBER 2017							
GHA Units	Road Name	Activity	Length (km)	Project Cost (GH¢M)	Total cost of Work done to date (GH¢M)	Cumulated Achievement (%)	Remarks
MMU I	Sawla - Bamboi Road	Resealing	153	6.640	0.400	4.00	2600m <sup>2</sup> of pothole patching executed on the Bole-Tinga. Work in progress.
	Adansi - Asokwa Weigh Bridge Project	Renovation works	-	1.173	0.430	36.66	Paving grout completed. Renovation of buildings on-going.
MMU II	Koforidua - Suhum (Resealing/Partial Reconstruction)	Resealing/Partial Reconstruction	29	7.003	0.024		
	Essuehyia - Otuam Road Phase II	Rehabilitation	6.3	2.300	1.700	92.00	Sealing works on-going
BMU	Kaneshie Foot Bridge		-	0.044	0.024		
	Repair of 50 Bridges in 10 Regions	Repair Works	-	1.500			
	Yensiso Bridge	Repair Works	-	0.017	-	60.00	Damaged parapet wall replaced with steel railings. Sealing of crack in abutment stem on hold due to water level.
	Bridge at Nkumkum	Replacement of Deck	-	0.097	-	45.00	Extension of abutment complete.
	Bridge over R. Mogla at Nakpali	Construction of abutments and piers.	-	0.680	-	40.00	The base for the two abutments and two of the piers have been cast. The stem of one of the pier has been cast 2m above the base. Excavation for the last piers footing is not yet done due to high water level.

**Source: GHA Maintenance Division December 2017**

## **4.10 Institutional Strengthening**

### **4.10.1 Management Information Systems**

The core function of the M.I.S. is the overall co-ordination and supervision of the Authority's computer systems, Data operations, Networking and hardware services. In line with this function the Division undertook the following major activities to improve the quality of work of staff.

#### **4.10.1.1 E-Government Phase-II Project**

The e-Government Phase II Applications Project also Known as "e-Workspace Project" forms part of a scale-up on the existing infrastructure delivered under the first phase of the e-Government Project. NITA is the implementing arm of the Ministry of Communications (MOC) for the projects which is expected to be deployed to 102 Government Organizations including all Government Ministries.

The e-workspace project includes:

- Intranet Portal
- Meeting Management System (MMS)
- Document Management System (DMS)
- Correspondence Management System (CMS)
- Unified Communications (UC)

NITA invited two (2) representatives of GHA to attend Steering Committee meetings on various occasions at Ministry of Communications Conference Room. The various MDA's invited were asked to present a report on e-workspace activities so far and to brief NITA on any challenges they face.

GHA has installed outlook for members of staff. Staff can now assess their corporate email through this application. MS Lync is also available for staff to use

#### **4.10.1.3 Provision of Local Area Network (LAN) for Ashanti, Brong Ahafo, Northern & Upper East Regions under WATTFP Programme.**

The installation of Local Area Networks (LAN) under the WATTFP programme, have been completed. They are operational in the above named regions.

#### **4.10.1.4 Operations at the Toll Plazas**

The technical team of the MIS Division continued with their visits to the toll booths serving Kasoa, Ashiaman and Accra-Tema motorway and provided technical assistance that they needed including servicing of computers, thermal printers, digital counters and cameras at the toll booth.

#### **Deployment of Tolls Software**

The Computer Science Department of the University of Ghana was contracted to develop a Tolls Operational Software for the Automation of Toll Collection for four (4) Toll Plazas namely; Accra, Tema, Ashiaman and Kasoa, all in the Greater Accra Region.

Some of the features of the system are as follows:-

- GHA staff can log on online to know the operations at the toll stations for monitoring purposes
- Manage the application process for e-cards
- Allow users to be able to apply on-line for e-cards through the Ghana Highway Authority's website
- Enable administrative approval to be given to applications
- Be able to print e-cards with the required security features
- Store and retrieve relevant information with ease

The deployment of the Software started in December, 2016. Currently the bulk of the e-cards have been printed and motorists are using them at the various toll stations.

Motorists will not have to stop at the motorway to pay physical cash, and this would ease traffic congestion. To further improve on this system, we are planning to introduce the pay as you go in addition to the electronic cards. The pay as you go system will be implemented at Pobiman and Sekyere as well as the four plazas in the Greater Accra Region and any new plazas that will be constructed in future. Plans are far ahead for deployment of the software at Pobiman and Sekyere Toll Booths in the Eastern Region.

### **Point of Sale Machine (POS)**

The Authority has contracted a Company M/s GreatEagle Resources Enterprise to pilot the POS at Ayi Mensah and Dodowa toll stations. The pilot program was successful due to reduction in operational cost in comparison to the manual tickets. Currently, the POS machines have been deployed at four (4) toll stations namely, Ayi Mensah, Dodowa, Tsipoli and Afiencya Toll stations. The aim is to gradually replace the manual ticket system with the Point of Sale (POS) machine which enables the monitoring of sales and the total amount collected by each operator during each shift.

### **GHA Website Redesign and Development**

Ghana Highway Authority has contracted a company Global Icons Agency, to redesign its website into a modern and professional online platform to provide various online services and up to date information about its operations and activities to stakeholders and the general public. The development of the website is ongoing.

## **4.11 Human Resource Development**

In line with the Authority's Policy of training and adequately motivating staff to acquire the needed skills knowledge and attitude to enhance performance in the discharge of their duties, various training courses were coordinated and organised in the year 2016. Funding for these courses was from the World Bank under the Transport Sector Project (TSP) and the Government of Ghana (GOG) subvention.

The objectives of training courses organized were to:

- Enable Management formulate policies, Initiate and Manage Changes to enhance organizational development.
- Enable Engineers conduct effective supervision of Projects.

- Enable Managers develop effective Work Units to enhance performance.
- Enable Technical, Administrative and Secretarial Class to provide the needed support for Directors and Managers to achieve organizational goals.

#### **4.11.2.1 Seminar/Conferences/Workshops**

A summary of training programs organized for staff during the year under review is as shown in Table 30.

#### **Management Level**




In 2017 a total of Twenty three (23) Management level personnel participated in various seminars, conferences, workshop, and short courses in both local and foreign institutions. Details of these course are as shown in Table 31 below.

#### **Middle Level**

Under this category, a total of One Hundred and Seventy Two (172) Managers and Supervisors participated in both local and overseas programmes. Eight (8) Officers are pursuing Masters programmes in our Local Universities. Details of these course are as shown in table31 below.

#### **Junior Staff**

The under-listed course were planned for junior staff in 2017 but could not be administered due to financial constraint.

-  Tyre Safety Training for Drivers
-  Capacity Building for Clerical & Secretariat Staff
-  Effective Records Management for Accounts & Administrative Clerks

Hopefully these courses will be organised in the year 2017.



**Table 30: Programmes & Number of Staff Trained in 2017**

CATEGORY	ACTIVITY	LOCATION	NO. OF STAFF TO BE TRAINED IN THE YEAR	NO. TRAINED IN THE YEAR
<b>MANAGEMENT LEVEL</b>	Seminar/Conference/Workshop	Foreign	2	4
	Seminar/Conference/Workshop	Local	40	12
	Higher Level Training(MBA)	Local	0	0
	In-House Training	Local	20	7
	<b>T o t a l s</b>		<b>62</b>	<b>23</b>
<b>MIDDLE LEVEL</b>	Seminar/Conference/Workshop	Foreign	5	1
	MSc Programme	Foreign	2	0
	Fellowship Programme	Foreign	6	0
	Seminar/Conference/Workshop	Local	266	43
	Higher Level Training(MSc/MBA)	Local	7	8
	HND/BSc. Programmes	Local	4	3
	Short Course in Local Institution	Local	50	2
	In-house Training	Local	0	115
	<b>T o t a l s</b>		<b>340</b>	<b>172</b>
<b>JUNIOR STAFF</b>	HND/BSc. Programmes	Local	4	0
	Seminar	Local	80	0
	In-house Training	Local	0	9
	<b>T o t a l s</b>		<b>84</b>	<b>9</b>

A. Breakdown of Staff to be trained in 2017 are as follows:

Management	62	
Middle Level	340	
Junior Staff	84	
<b>T o t a l s</b>	<b>486</b>	

B. Breakdown of staff trained in 2017 were as follows:

Management	23	
Middle Level	172	
Junior Staff	9	
<b>T o t a l s</b>	<b>204</b>	

Industrial Attachment	305	
National Service	99	
Induction Training	20	

**Source: GHA Training & Development Division December 2017**

**Table 31: Details of 2017 Local Programs**

NO	ACTIVITY	LOCATION	DURATION	PARTICI- PANTS	RANK	FUNDING
1	Orientation for Newly Appointed Director of Human Resources	HR Interview Room	8 days	1	Mgt.	GOG
2	Hands-on-Training In Idea Software (Phase II) for Internal Auditors	MIS Training Room	5 days	1	Mgt.	GOG
3	2017 Board, CEO and CAE Governance Workshop of the African Federation of the Institutes of internal Auditors Conference	Kempinski Hotel	1 day	5	Mgt.	GOG
4	4th African Federation of Institutes of Internal Auditors (AFIIA) International Conference	Movenpick Hotel, Accra	3 days	1	Mgt.	GOG
5	Training in Microsoft Excel, Word and Outlook	MIS Training Room	5 days	1	Mgt.	GOG
6	A Three (3) Day Workshop for Chairpersons and Members of Governing Boards/Councils, Chief Directors and Chief Executive Officers of Public Sector Organisations and Insitution	Royal Senchi Hotel, Akosombo	3 days	2	Mgt.	GOG
7	One-Day Conference of the Civil Technical Division fo the Ghana Institution of Engineers	Engineers Centre	1 day	1	Mgt.	GOG
8	Executive Education Programmes - Leading and Managing People	GIMPA	3 days	1	Mgt.	GOG
9	One Day Conference of Civil Technical Division of the Ghana Institution of Engineers	Engineers Centre	1 day	1	Mgt.	GOG
10	A Ten-Day Workshop of GIS and GPS Technology	Ghana Technology University College Tesano - Accra	10 days	2	Middle	GOG
11	Hands-on-Training In Idea Software (Phase II) for Internal Auditors	MIS Training Room	5 days	12	Middle	GOG
12	Professional Certificate In Practical Minute Taking	University of Professional Studies (UPSA)	5 days	2	Middle	GOG
13	Career Women's Forum	National Insurance Commission	1 day	5	Middle	GOG
14	Certified HR Management Professional Course	University of Professional Studies (UPSA)	8 days	2	Middle	GOG
15	Slope Monitoring Workshop	Holiday Inn, Accra	2 days	4	Middle	GOG
16	Training in Microsoft Excel, Word and Outlook	MIS Training Room	5 days	66	Middle	GOG
17	4th African Federation of Institutes of Internal Auditors (AFIIA) International Conference	Movenpick Hotel, Accra	3 days	2	Middle	GOG
18	One Day Conference of Civil Technical Division of the Ghana Institution of Engineers	Engineers Centre	1 day	8	Middle	GOG
19	Infrastructure Procurement and Delivery Management (IPDM)	British Council	1 day	1	Middle	GOG
20	Training on Toll Software for GHA Staff	MIS Training Room	3 days	27	Middle	GOG
21	Documenting Audit Work, Construction Contract Auditing, Procurement Auditing Conducting Occupational Fraud Investigations	Council for Scientific and Industrial Research - STEPRI, Accra	4 days	8	Middle	GOG
22	FIDIC Contracts Training Courses Modules 3 & 4	Engineers Centre	4 days	3	Middle	GOG
23	Standard Specification for Road and Bridge Works -2007	Koforidua Training Centre	10 days	10	Middle	GOG
24	One Day Conference of Civil Technical Division of the Ghana Institution of Engineers	Engineers Centre	1 day	8	Middle	GOG
25	Training in Microsoft Excel, Word and Outlook	MIS Training Room	5 days	9	Junior	GOG

**Source: GHA Training & Development Division December 2017**

## 4.12 Plant & Equipment

During the year under review, 462 jobs were received 394 completed and 68 outstanding at the Central Mechanical Workshop. The summary of the jobs received and completed at the various sections are as follows:

**Table 32: Jobs received and completed**

Quarter/ Section	1 <sup>st</sup>		2 <sup>nd</sup>		3 <sup>rd</sup>		4 <sup>th</sup>	
	Rec`d	Comp`d	Rec`d	Comp`d	Rec`d	Comp`d	Rec`d	Comp`d
Light	47	45	51	35	51	35	40	37
Electrical	45	38	54	48	54	48	36	31
Engine	2	2	5	2	5	2	3	3
Ancillary	14	5	10	14	10	14	3	5
Heavy	5	5	5	4	5	4	5	4
Machine	3	3	4	4	4	4	1	1

Note: Rec`d =Received, Comp`d =Completed

Source: GHA Plant & Equipment Division December 2017

### 4.12.1 Ferries

#### M/S Sogakope

The ferry makes trips between Ada- Foah to Amedeka and Ada – Foah to Anyanui. However the ferry is very weak and constantly develops leakages on the hull and the schottels which demanded constant welding by the dedicated welders at the Unit.

#### M/S Okor

As has been reported M/Okor has been slipped out of water over several years awaiting repairs. The ferry is deteriorating at an alarming rate. The ferry can be refurbished to serve as a source of IGF.

#### Senchi – Akrade Ferries

The two (2) ferries were running smoothly and all activities were going on as expected. However, the operations are currently being winded up due to the completion of the rehabilitation works on the Adomi Bridge.

### 4.12.2 Procurement

The details of the procurement done in the period under review are as follows.

#### NATIONAL COMPETITIVE BIDDING (NCT)

##### 1.0 SUPPLY OF COMPUTERS, ANTI-VIRUS AND TOLL AUTOMATION EQUIPMENT IFT NO. GHA/NCT/GDS/01/16

The above procurement has been carried out and delivery has been completed, payments to suppliers are still pending.

##### 1.1 SUPPLY OF G.P.S EQUIPMENTAND SOFTWARE (RESTRICTED) IFT NO. GHA/NCT/GDS/02/16

The above procurement failed as two of the bidders tendered in their withdrawal letters, 24 hours to the day of opening. Retendering of the procurement would commence soon.

##### 1.2 SUPPLY OF ONE (1) 4X4 CROSS COUNTRY VEHICLE IFT No. GHA/NCT/GDS/03/16

The above procurement has been duly been completed and supplies made, payments to suppliers have been made.

**1.3 SUPPLY OF ONE (1) 4X4 CROSS-COUNTRY VEHICLE AND ONE (1) 4x4 PICKUP- TRUCK  
IFT No. GHA/NCT/GDS/04/16**

The above procurement has been duly completed and items supplied and are currently in use. Payments have been duly made.

**1.4 SUPPLY OF AUTOMATIC GROSS AXLE WEIGHERS AND SOFTWARE  
IFT: GHA/SS/GDS/01/16**

Contract has been signed for the above procurement, supply has been made and installation is currently ongoing. Payments have not been made.

**1.5 SUPPLY OF THREE (3) PORTABLE WEIGHING PASDS AND ACCESSORIES  
IFT: GHA/NCT/GDS/06/16**

The above procurement is still on- going and it's at the evaluation stage, pending entity approval.

**1.6 SUPPLY OF DECKING PLATES FOR MOTORWAY AND AKOM WEIGH BRIDGES  
IFT: GHA/NCT/GDS/05/16**

The above procurement is still on- going and it's at the evaluation stage, pending entity approval.

**1.7 SUPPLY OF G.P.S. EQUIPMENT AND SOFTWARE  
IFT: GHA/NCT/GDS/07/16**

The above procurement is yet to be advertised in the national dailies for procurement to progress.

## CHAPTER FIVE

### 5.0 Administrative Activities

#### 5.1 Human Resource

The man-power status of the Authority was 1,442 at the inception of the year 2017. It however closed the year with staff strength of 1,296. The reduction was due to labour turn-over which includes compulsory and voluntary retirements, resignations, deaths, vacation of post and dismissals. The total number of staff exited for the year was 124 whilst recruitment was 0. The percentage in reductions and additions of staff strength of the Authority for the year under review therefore stood at 8.7% and 0% respectively. Should this trend continue without vigorous implementation of the GHA replacement plan, the staff will reduce so drastically that the Authority may not be able to meet its strategic objectives in the foreseeable future.

The current staff strength of 1,296 as against the establishment of 2,529 comprised 637 being 49.2% senior staff and 659 being 50.8% junior staff. Table 33 below gives the man- power status for the various quarters of the year as well as the 4<sup>th</sup> quarter manpower statistics. The data and the graph on Age Distribution is shown in Table 34 and Figure 13.

**Table 33: Man- Power Status for the Various Quarters of the Year 20167**

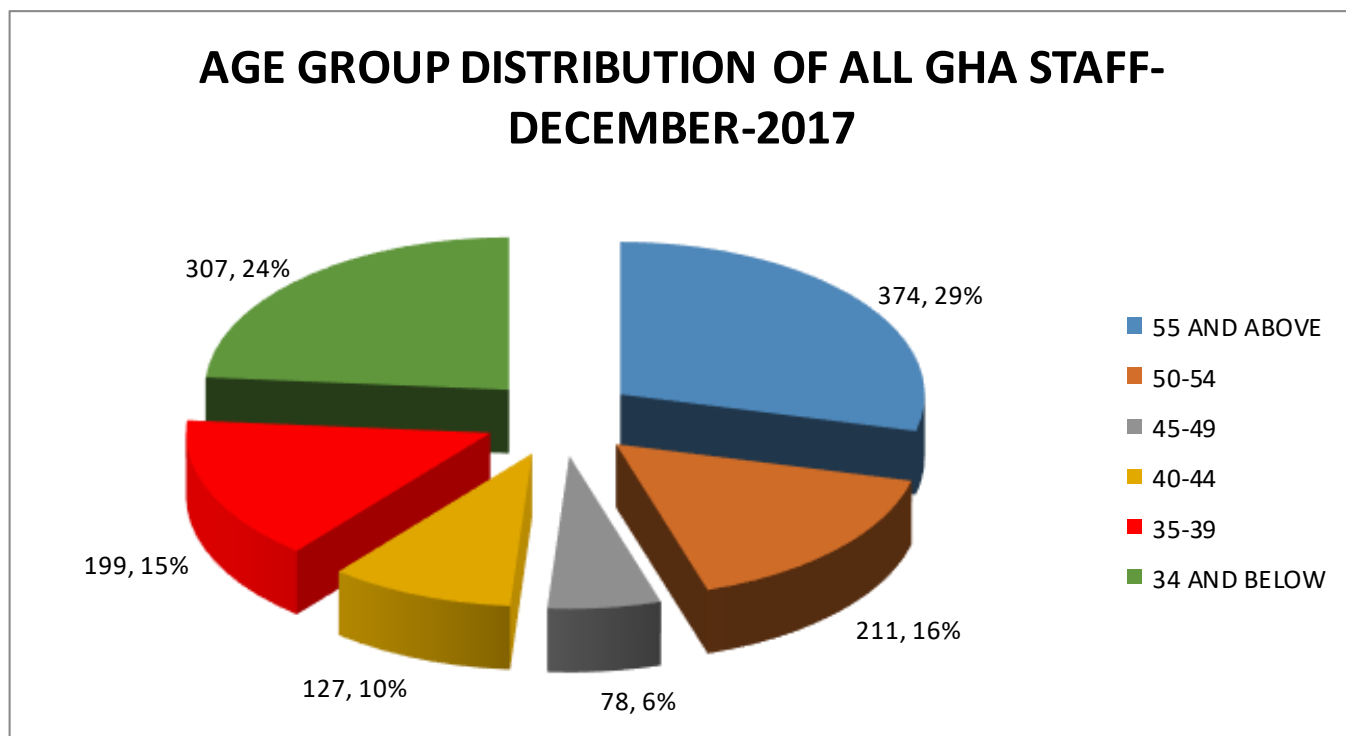
MAN-POWER STATUS FOR YEAR 2017			
QUARTER	SENIOR STAFF	JUNIOR STAFF	TOTAL
1 <sup>ST</sup>	663	719	1,382
2 <sup>ND</sup>	654	704	1,358
3 <sup>RD</sup>	645	669	1,314
4 <sup>TH</sup>	637	659	1,296

**Source: GHA Human Resource Division December 2017**

**Table 34 : Staff Age Group Distribution**

AGE GROUP DISTRIBUTION OF ALL GHA STAFF-DECEMBER -2017							
OCCUPATION CATEGORY	55 AND ABOVE	50-54	45-49	40-44	35-39	4 AND BELOW	TOTAL
ADM./ OTHER MANAGERIAL STAFF	69	32	12	12	35	35	195
CLERICAL STAFF	34	11	0	1	4	36	86
ENGINEERS	27	30	10	14	32	62	175
FOREMAN/CHARGEMAN	1	0	0	0	1	2	4
OTHER PROFESSIONAL STAFF	12	7	9	7	13	10	58
SEMI-SKILLED STAFF	88	43	20	38	46	50	285
SKILLED WORKERS	74	49	18	31	21	27	220
SUPERINTENDENT	13	7	0	0	0	0	20
TECH.& SUPERVISORY STAFF (I)	26	15	4	5	17	13	80
TECH.& SUPERVISORY STAFF (II)	0	0	1	4	10	49	64
TECHNICIAN ENGINEER STAFF	30	17	4	15	20	23	109
	374	211	78	127	199	307	1296

Source: GHA Human Resource Division December 2017

**Figure 13: GHA Age Distribution December 2017**

Source: GHA Human Resource Division December 2017

#### 4.1.1 Staff Turnover

The year 2017 saw one hundred and twenty four (124) staff exiting the Authority through retirements, deaths, resignations, dismissals and vacation of posts. The table below gives the man-power status for the various quarters of the year.

**Table 35: Man-Power Status for Year 2016**

<b>Exits</b>	<b>1<sup>ST</sup> QUARTER</b>	<b>2<sup>ND</sup> QUARTER</b>	<b>3<sup>RD</sup> QUARTER</b>	<b>4<sup>TH</sup> QUARTER</b>	<b>TOTAL</b>
<b>Retirement</b>	<b>33</b>	<b>23</b>	<b>37</b>	<b>17</b>	<b>110</b>
<b>Deaths</b>	<b>3</b>	<b>0</b>	<b>6</b>	<b>1</b>	<b>10</b>
<b>Resignations</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>2</b>
<b>Dismissals</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2</b>
<b>Vacation Of Post</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>TOTAL</b>	<b>38</b>	<b>24</b>	<b>43</b>	<b>19</b>	<b>124</b>

*Source: GHA Human Resource Division December 2017*

#### 4.1.2 Staff Recruitment /Promotions & Postings

There was no recruitment in the year 2017. Fifty eight (58) staff were posted to different stations, consisting of both Senior and junior staff. One Hundred and Sixty-Six (166) staff members were promoted to their next higher grades within the year 2017. The total comprised One Hundred (90) senior staff and Seventy-Six (76) Junior staff.

## 5.2 Public Affairs Issues

Press coverage was organized for activities of the GHA as follows:

- ✚ Sector Minister Inspects unauthorized routes on the Accra -Tema Motorway.
- ✚ Sector Minister Inspects Kasoa-Mallam Flooding.
- ✚ GHA Board and Management inspect Pothole Patching Work on the Accra – Tema Motorway and On-going works on the Tunnel
- ✚ Parliamentary Select Committee on Roads and Transport inspect Motorway Expansion Project
- ✚ Opening of Ayimensah- Peduase Lodge Road after Slope Repairs.
- ✚ GHA Board inspects works on the repair of Buipe and Yapei Bridges.
- ✚ Re- Opening of Buipe and Yapei Bridges

### Advertisements/Announcements

Eighteen (18) advertisements and announcements were published in the newspapers, Radio and TV stations. Details are given below:

- ✚ Routine Maintenance of Trunk Road – Invitation for bids 2017 – 2018 programme for LPC- Grading of Gravels Roads
- ✚ Addendum N0. 1
- ✚ Addendum N0.2
- ✚ Construction of Toll Plaza of Boankra and others.
- ✚ Invitation to Tender for the Rehabilitation of Benchema-Adwufia Road(39km)
- ✚ Request for Proposals: Private Management of GHA Weighbridge Stations
- ✚ Addendum (Extension of Submission Deadline): Request for Proposal
- ✚ Load Restriction on the Buipe and Yapei Bridges on the Kintampo-Tamale Road (N10 Highway)
- ✚ Disposal of Unserviceable Vehicles and Equipment: Auction Time Table.
- ✚ Invitation For Bids: Routine Maintenance of Trunk Roads (Pothole Patching on Sealed Roads)
- ✚ Upgrading of the Accra-Tema Motorway Project on Public Private Partnership (PPP) Basis
- ✚ Specific Procurement Notice: Invitation for Prequalification on Finance, Design and Construction of Three (3) Bridges in the Northern Region
- ✚ Invitation to Prequalify for Periodic Maintenance Projects (NCT)
- ✚ National Competitive Tendering (NCT): Invitation for Tenders ( IFT)
- ✚ Addendum N0. 1
- ✚ Supply and Installation of Automation Equipment and Accessories for Toll Stations (IFT/NCT)
- ✚ Installation of Road Safety Features on Walker Bush-Mallam- Winneba Highway
- ✚ Invitation to Prequalify for Periodic Maintenance and Rehabilitation of Trunk Roads (NCT)



### 5.3 Legal Issues

As at the end of the year under review thirty four (34) civil cases were pending in the various courts. Their states are set out as follows in Table 36 below:

**Table 36: Court Cases involving the Authority**

	TITLE	COURT	SUBJECT	REMARKS
1	Otinshie Land Case Nuumo Adjei Kwankwo Vrs GHA ORS	High Court, Accra	Trespass	Dormant
2	Gotourism Vrs GHA	High Court, Accra	Trespass	Judgement delivered in favour of the Authority.
3	Wisdom Awuku & Boadi Acheampong VRS GHA	Court of Appeal, Accra	Alleged wrongful dismissal	Appeal to the Supreme Court by the Plaintiffs is still pending.
4	Togbe Lugu Awadali Vrs GHA	High Court – Ho	Compensation	Dormant
5	William Sarpong Vrs GHA	High Court, Kumasi	Compensation	Dormant
6	James Manu Vrs GHA	High Court, Kumasi	Compensation	Pending
7	JoeMersa Co. Ltd. Vrs GHA	High Court, Commercial Division, Sunyani	Damages for wrongful termination of contract	Dormant
8	Carl Josiah Reindorf & Others Vrs 1. Attorney General 2. GHA	High Court, Accra	Compensation	Plaintiff's case dismissed
9	Long Life Confectionery Vrs. Ltd 1. Attorney General 2. GHA 3. China Railway Corp.	High Court, Accra	Compensation	Hearing to start this quarter (27/1/2018).
10	Rapheal Cubagee Vrs GHA & Others	High Court Sunyani	Demand fo Withholding Tax Deducted	Plaintiff's case dismissed
11	Esther Boye Boateng Vrs 1. Joyce Ansong 2. GHA	High Court Koforidua	Compensation	Pending
12	Zenith Bank Ltd. Vrs 1. K.D.V Lexicon Ltd. 2. GHA	High Court Commercial Div. Accra	Demand for money allegedly wrongfully paid to the 1st Defendant by the Authority	Plaintiff's case dismissed
13	Nicholas Mamphi Nyantey & Lydia Oppong Vrs. 1. Armah Ashitey 2. GHA	High Court Koforidua	This is an accident case and the Plaintiffs who were affected persons sued the Authority and its driver	Dormant
14	Kwesi Attah Vrs 1.Kingsley Kwakye 2. Sowah Adjetei 3. GHA	High Court Koforidua	This is an accident case and the Plaintiff who was an affected person sued the Authority and its driver among others.	Dormant
15	1. Mrs. Florence N. Agyeman 2.Mr. Charles Agyeman Vrs 1.ECG 2.AARSELF Gh. JV 3.Dopel Engr Ltd. 4.GHA	High Court Kumasi	Plaintiff first sued the first 3 Defendants and later joined the Authority for Court to compel Defendants rebuild or pay current value of their house and replace family belongings and jewellery that got burnt by fire during the relocation of E.C.G. lines along the Kumasi –Konongo Road. Plaintiff sued the Authority for the	Plaintiff to furnish GHA with title deeds over property to enable process of compensation evaluation to proceed.
16	Elvis Kwaku Agyeman Badu Vrs. GHA	High Court (Labour Division) Accra	payments of outstanding salaries and benefits up to his retirement date – 1 <sup>st</sup> Oct 2014	Dormant
17	Mercy Kabuki Tettehio(Nee Akrofi) Vrs GHA	High Court (Labour Division) Accra	The Plaintiff claimed that she was compulsorily retired by the Authority even though she has not yet reached the compulsory retirement age of 60 years. The High Court gave judgement in favour of Plaintiff. The Authority is appealing to the Court of Appeal.	Appeal process in progress.
18	1.Amoako Ababio & Co. 2.Valuation Dev. Service Vrs GHA	Fast Track High Court, Accra	Writ filed by Plaintiffs to recover from the Authority proposal fees for a Valuation exercise for clients which the GHA failed to pay against the advice of LVB of the Lands Commission .	Dormant
19	Douglas Carl Botwe Vrs GHA	High Court Commercial, Kumasi	claiming payment of compensation due him for the destruction of his 2No. properties during the construction of the Kumasi – Konongo Road.	Parties finished giving evidence and judgement is awaited.
20	<b>Ghana Federation of the Disabled Vrs Attorney General, GHA, Millennium Development Authority</b>	<b>High Court, Human Rights Division Accra</b>	It would be recalled that the Plaintiff sued in relation to the Tetteh Quarshie – Mallam Highway. It claimed that the interest of the Disabled was not catered for in that adequate safety measures were not put in place for them.	Outstanding concerns of Plaintiff addressed. Terms of settlement are yet to be filed.

21	<b>Edward Kobblah Penu Vrs Millennium Development Authority, GHA</b>	<b>High Court Human Rights Division, Accra</b>	This case related to the Tetteh Quarshie Mallam Highway. It is a claim for compensation for properties affected by the project. The Plaintiff has furnished a copy of his Property's Valuation Report to the Authority and the Land Valuation for vetting and approval to enable the matter to be settled amicably out of court.	The LVD of the LC has been ordered to come to Court and report on the status of the Valuation Approval.
22	<b>Top Oil Vrs 1. Alhaji Yussif &amp; GHA</b>	<b>High Court (Land Division)</b>	The Defendant Alhaji Yussif sued the Authority by a counter claim for the wrongful payment of compensation money to the Plaintiff Top Oil.	The case is pending
23	<b>Japan Motors Trading Co. Ltd Vrs GHA</b>	<b>High Court (Commercial Division)</b>	The Plaintiff sued for an Order to direct the Authority to pay an amount of ₦27,612,692. 00 million Japanese Yen being the contract sum for the supply of two water tankers due them.	The principal amount has been settled by the Ministry of Finance. What remains is the claim for interest payments.
24	<b>Nyagsi Engineers Ltd. Vrs GHA</b>	<b>High Court, Commercial Division – Accra</b>	Plaintiff sued the Authority for breach of contract.	Judgement is awaited.
25	<b>Aduana Dawurampong Stool of Assin Atadanso Vrs GHA</b>	<b>High Court, Fast Track Division – Accra</b>	Plaintiff sued the Authority for the recovery of GH¢668,958.43 for value of gravel and other soil material won from Plaintiff's land.	Dormant
26	<b>Ben Sevor Vrs GHA &amp; Oth</b>	<b>High Court, Accra</b>	Plaintiff sued the Authority for a declaration that all the Defendants were endangering the human lives including Plaintiff's for not attending to potholes created on the Accra – Ho trunk road at Mampong Shai Street junction.	Dormant
27	<b>Nana Adu Agyei Bonse II Ohene of Old Akrade Vrs GHA</b>	<b>High Court, Koforidua</b>	Plaintiff sued the Authority for an Order by Court to compel the Authority to give them a fair and reasonable portion of the proceeds arising from the operations of the Pontoon Services from Old Akrade to Senchi and also for the Authority to file in Court the accounts of proceeds arising out of the Pontoon Services.	Dormant
28	<b>Mrs. Cecilia Buah Blankson Vrs. 1. GHA 2. Managing Director (Mawums Co. Ltd.)</b>	<b>High Court, Cape Coast</b>	The Plaintiff sued the Defendants jointly and severally for damages caused by the poor construction of Drainage in front of her guest house which had allegedly resulted in flooding of her guest house anytime it rains.	The case is ongoing.
29	<b>Sydney t. Danso Ladans</b>	<b>High Court, General Jurisdiction, Accra.</b>	Plaintiffs sued the Authority claiming claiming cost of medical and related expenses as well as damages for an accident near Islamic High School near Okurasi Junction, Suhum.	Dormant.
30	<b>Edward Afful</b>	<b>High Court, Koforidua.</b>	Plaintiff sued for trespass to his land, an order for valuation of land and assessment of damages and payment of compensation.	Plaintiff was directed by Court to furnish title on land to facilitate processing of claim.
31	<b>Ebusuapanyin Kingsly Quayson Vrs GHA</b>	<b>High Court, Cape Coast.</b>	Plaintiff sued for declaration of title to land abutting Cape Coast - Takoradi Road which he alleges to been trespassed on by the Defendants by laying pipelines without authorization.	GHA was joined to the case at the instance of which Ghana Water Company Limited.
32	<b>Nsuta Stool Vrs GHA</b>	<b>High Court, Kumasi</b>	Plaintiff sued for recovery of land on which GHA has a Road Camp. Because GHA has not performed the necessary customary function in recognition of Plaintiffs ownership.	Plaintiff are being engaged by GHA to regularize ownership.
33	<b>Madam Benedicta Awoa Anibea Vrs Ghana Highway Authority</b>	<b>High Court, Koforidua</b>	Plaintiff sued for the disclosure of total amount of compensation paid to 3rd, 4th, 5th and 6th Defendants and an order for the Defendants to account for all monies received and pay reasonable proportion of the monies recieved by the 3rd, 4th, 5th and 6th Defendants to the Plaintiffs as compensation for demolition of H/NO. GHA/OM 32, Omenako.	The case is pending
34	<b>Quarcoo Tetteh Vrs 1. China Railway (WUJU) Group Corporation 2. Ghana Highway Authority</b>	<b>High Court, General Jurisdiction, Accra.</b>	Plaintiff sued the Authority for damages for the destruction of his fish pond and stock of fish, loss of office equipments and household property and for the loss of revenue from the recreational centre estimated at about GH¢100,000.00	Case hearing has started.

**Source: GHA Legal Services Division December 2017**

## 5.4 Internal Audit

Ghana Highway Authority Act 540 of 1997 requires the Internal Audit Division to review and report on all operations, systems, processes, and records undertaken by the Authority including those delegated or contracted out to third parties.

The Internal Audit Agency Act 2003, also mandates the establishment of Internal Audit Units in the Ministries, Departments and Agencies (MDAs). The MDA may upon examination of an internal audit report, take such action as it considers appropriate including recommendations for prosecution and disciplinary action in respect of any breaches found.

Table 37 below outlines some of the key activities undertaken in the year under review.

**Table 37: Details of Some Activities Carried Out in 2017**

No.	ACTIVITY DESCRIPTION	STATUS
1.	Review of Rehabilitation of Agona junction-Elubo Road (lot 1:km 0-30) (IPC NO 20) Western Region	Completed
2.	Pre- Audit - Rehabilitation of Ayamfuri—New Obuase Asawinso Lot 1 IPC NO 22A	Completed
3.	Pre –Audit - Rehabilitation of Ayamfuri—New Obuase Asawinso (Lot 2) <b>IPC No. 30</b>	Completed
4.	Pre –Audit - Rehabilitation of Ayamfuri—New Obuase Asawinso Lot 2 IPC NO 27A	Completed
5.	Review of Installation of traffic signs on TEMA – SOGA KOPE ROAD (LOT 2) IPC NO. 1	Completed
6.	Review of Rehabilitation of TARKWA BOGOSO AYAMFURI ROAD IPC NO. 48	Completed
7.	Review of Reconstruction of KPANDO – WORAWORA – DAMBAI ROAD. PHASE III IPC NO. 42	Completed
8.	Review of Construction of Toll Plaza Office and Auxiliary at NSAWAM – ACCRA ROAD IPC NO. 7	Completed
9.	Review of Construction of Oil and Gas Enclave Roads (construction of 10.0 Km Road along the Pipeline including the Amazure Bridge) IPC Nos.7&8	Completed
10.	Review of Rehabilitation of AGONA JUNCTION – ELUBO ROAD (LOT 20) IPC NO. 22	Completed
11.	Review of Rehabilitation of Tarkwa – Bogoso – Ayamfuri Road <b>IPC No. 49</b>	Completed
12.	Review of Construction of Oil & Gas Enclave Roads (Construction of 10.0km Road along the Pipeline including the Amazure Bridge) <b>IPC No. 12</b>	Completed
13.	Review of Private Management of GHA Weighbridge Station at Sefwi Bekwai –Lot 12 IPC No.1	Completed
14.	Review of Rehabilitation of AGONA JUNCTION – ELUBO ROAD (LOT 20) IPC NO. 22	Completed
15.	Review of Construction of Wa – Han Road (30km) Lot 1 <b>IPC No. 19A</b>	Completed
16.	Pre-Audit - Upgrading of Asikuma Junction-Hohoe section (km0+000-km45+000) IPC NO 18	Completed
17.	Pre –Audit- Rehabilitation of Ayamfuri—New Obuase Asawinso Lot 2	

	IPC NO 28	
18.	Pre-Audit- Rehabilitation of Ayamfuri—New Obuase Asawinso Lot 1 IPC NO 24	
19.	Pre – Audit- Agona Junction –Elubo Road Project (km110) Invoice no 18 & 19	Completed
20.	Pre- Audit- Rehabilitation of Ayamfuri – New obuase Asawinso Lot 2 IPC no 29	Completed
21.	Pre –Audit of Rehabilitation of Agona Junction – Elubo Road (LOT 2: km 30 – 80) <b>IPC NO. 23</b>	Complete
22.	Pre –Audit Review of Rehabilitation of Agona Junction – Elubo Road (LOT 2: km 30 – 80) <b>IPC No. 22A</b>	Completed
23.	Pre – audit of Rehabilitation of Ayamfuri – New Obuase – A sawinso (Lot 1) <b>IPC No. 25</b>	Completed
24.	Pre – Audit of Mutual Savings & Credit Fund	Completed
25.	Pre- Audit ; Promotion, Interdiction and Compulsory Retirement Inputs at the Head Office	Completed
26.	Audit of Compensation Payments	On -going
27.	Construction Of Ho -Fume Road (KM 0+00-7+000) and (KM 28+700- 40+100) <b>IPC No. 28</b>	On -going
28.	Report on Annual Stock Taking 2016	On -going
29.	Toll Revenue Monitoring Audit at Ashaiman and Tema	On - going
30.	Axle Load Audit (Western Region)	Completed
31.	Audit of Accra, Ashaiman, Tema and Kasoa Toll Plazas	Completed
32.	Examination of Payment Vouchers (Internally Generated Fund) (IGF) January, 2015 -December, 2015	Completed
33.	Cash Account Audit (Head Office Region) 2015	On- going
34.	Review of Stores Record for January 2016- March 2017	Completed
35.	Employee Monthly Attendance Returns at Central Stores for the period August, 2016 to march 2017	On- going
36.	Audit of Machine Shop for The Period August 2016 To March 2017	On -going
37.	Human Resources Audit ( Workshop Staff)	On -going
38.	Audit Of Requisition And Issue Vouchers In Store 'G' For The Period August 2016 To March 2017	On -going
39.	Electronic Salary Pay Vouchers of Staff Central Workshop/Store for The Period August 2016 To March 2017	On -going
40.	Review of Monthly Expenditure Returns (2017) - Northern Region (January , March , May and October 2017) Ashanti Region(February, May and August 2017), Brong Ahafo Region (February, July, October and November 2017), Upper East Region (June 2017 ), Upper West Region (July 2017)	On -going
41.	Examination of General Payment Vouchers; January, 2015 – December, 2015	On -going
42.	Review of Monthly Expenditure Returns: (2017)	Completed

	<ul style="list-style-type: none"> <li>• Western and Central Regions (January – March)</li> <li>• Central Region (February –March)</li> <li>• Greater Accra (December 2016- Sept. 2017).</li> <li>• Eastern and Volta Regions (June- Sept.)</li> </ul> MMUII and BMU (June- August)	
43.	Audit of Store G, Tyres Store and Oil & lubricant Store for the period Nov. 2016- March, 2017	Completed
44.	Examination of General payment Voucher ( January,2015-December, 2016)	Completed
45.	EXAMINATION OF PAYMENT VOUCHERS (PV'S) 2015; <ul style="list-style-type: none"> <li>• General (January – May )</li> <li>• Road Safety and Development Programme(March, April, May Vol. 1 and December)</li> <li>• Head Quarters Main (September 2015 Vol.1 And October 2015 Vol. 2)</li> <li>• Central Administration Accounts (CAA) (May Vol. 1)</li> </ul> Transport Sector Project Support II ( May Vol.1, June Vol. I, II And III).	On-going
46.	Cash Account Audit (Head Office Region) 2016	Completed
47.	Review of Central Administration Account's Trial Balance (2016)	Completed
48.	QAIP- Quality Assurance Implementation Programme	Completed

**Source: GHA Internal Audit Division December 2017**

## CHAPTER SIX

### 6.0 Conclusion/Recommendations

The Ghana Highway Authority in its 2000 – 2015 strategic plan proposed to achieve a road network condition mix of 70% good, 20% fair and 10% poor. With a projected improvement rate of about 7% per annum. The target road surface condition mix of 70% good, 20% fair and 10% poor would be achieved with the adequate injection of adequate resources. The road condition mix for the year 2016 stood at 56% good, 37.2% fair and 6.7% poor.

### 6.1 Key Performance Indicators

Ghana Highway Authority under the SOE Performance Contract signed between the Authority and Government of Ghana is evaluated at the end of the Performance Contract period. The evaluation is based on four areas of performance. These are in the Financial/Economic, Efficiency/Productivity, Dynamic Effects and Management/Projects areas.

A performance index score, which is a measure of the overall performance using agreed performance indicators and weights are given to them based on their relative importance. The scoring process is therefore based on the Financial/Economic, the Dynamic Effects and Management Improvements/Projects indicators using the negotiated weights.

The Authority evaluates its performance at the end of every quarter following the four areas of performance. Table 38 below shows the status of GHA Performance Matrix categorized into the four areas of performance as at the end of the period under review.

**Table 38: Status of 2017 Performance Matrix as at End of the of Year 2017**

Units	Targets (Approved)	Jan-March (Actual)	April-May (Actual)	July-Sept. (Actual)	Oct.-Dec. (Actual)	% Achieved as at December 2017	Remarks
GH ₵	26,532,466.00	5,806,502.28	11,721,773.39	17,301,494.40	23,253,254.30	87.64	
GH ₵	500,000.00	0.00	0.00	0.00	151,581.00	30.32	
GH ₵	250,000,000.00	619,050.30	1,341,484.85	96,034,278.26	161,864,286.51	64.75	
GH ₵	75,000,000.00	0.00	0.00	7,390,908.11	28,642,997.41	38.19	
GH ₵	187,560,577.00	14,208,701.55	46,652,968.35	60,696,975.93	75,262,552.46	40.13	
GH ₵	96,500,000.00	0.00	20,217,207.20	16,081,270.74	20,153,630.80	20.88	
GH ₵	636,093,043.00	20,634,254.13	79,933,433.79	197,504,927.44	309,328,302.48	48.63	
GH ₵	8,003,296.00	1,577,721.43	3,623,250.46	7,243,647.98	10,259,972.22	128.20	
%	1.26	7.65	4.53	3.67	3.32	3.32	
%	0.24	0.24	0.24	0.24	0.24	0.24	
%	4.17	28.14	14.66	8.76	7.52	7.52	
%	331.52	368.03	323.52	238.85	226.64	226.64	
%	55	57	57	57	57	57	2016 Road Condition report
%	36	36	36	36	36	36	
%	9	7	7	7	7	7	
No.	1,700.00	1,382.00	1,358.00	1,314.00	1,296.00	76.24	
Month	February						
%	100	6.58	19.75	12.35	7.81	46.50	
Month	November						submitted.
Month							
%	80	13.81	50.6	28.41	123	123	
%	80	12.59	41.81	5.56	442.44	442.44	
%	40	-	-		990.82	990.82	
Month	January	-	-	-			submitted
%	100	0	0	0.00		0.00	No funds released
Weeks	6	8	-	-			
No.	6	6				100.00	Conforms to SEC report format
Month	March	-	-	-			2016 Draft Audit Report is yet to be issued by GHA's external auditors.
Period	October	-	-	-			Submitted
Weeks	1	-	-	-	-		Pending
Month	June	-	-	-	-		
%	90	-	-	-	-		
Month	August	-	-	-	-		Pending
Month	December	-	-	-	-		Pending

**Source: GHA Planning Division December 2017**



## 6.2 Constraints

### Reduced Budget Allocation

Since 2012, the Subvention release to GHA has been dwindling, last year for instance, only GH¢151,581.00 - out of an approved budget of GH¢500.000 - was received from Ministry of Finance for Goods and Services for the year 2017.

The Government decided to introduce Revenue capping for Agencies including Ghana Highway Authority to reduce Internally Generated Revenue to these Agencies. *(Source: MOF, Budget Statement 2017)*

To this end, Ghana Highway Authority IGF revenue suffered 34% reduction. This had negative impact on Ghana Highway Authority's financial resource and this led to further accumulation of debts to Service Providers and staff more so, when GHA was expected to pay electricity bill of about GH¢2m and water bill of about GH¢500,000 in 2017.

### Inadequate Staff







The current staff strength is 1,296 as against the establishment of 2,529. This means the authority is operating at 51% capacity which is a great toll on some technical staff.

The total number of staff exited for the year was 124 whilst recruitment was 0. The percentage in reductions and additions of staff strength of the Authority for the year under review therefore stood at 8.7% and 0% respectively.

The technical staffing situation has become critical in some divisions and regional offices. Most of divisions are under-staff in both technical and non-technical staff.

Should this trend continue without vigorous implementation of the GHA replacement plan, the staff will reduce so drastically that the Authority may not be able to meet its strategic objectives in the foreseeable future.

### Other major constraints facing the Authority are categorized below:

-  Overage vehicles in all the Departments of the Authority
-  Urgent needs of Materials Division for Laboratory Equipment to carry out test for the public to generate IGF as well as for their normal operations.
-  Overage and inadequate IT equipment and software for staff
-  Poor contractor capacity and performance.
-  Delay in payment of compensation due to long valuation procedures and inadequate budgetary allocation.
-  Inadequate release of funds for Recurrent, Investment and Capital Investments.

## 6.3 The Way Forward

The Authority as always will strive to continue to uphold its set objectives, which are measurable, relevant, specific, achievable and consistent to its mission statement. The following objectives have been set out in the way forward to address the constraints stated above

- ✚ It is hoped that, when the TSIP takes off, the IT needs for both head office and the regions will be addressed. NITA is also providing some IT services to the Authority namely –internet and corporate email services.
- ✚ In addressing the poor contractor capacity and performance, the Authority in collaboration with the MRH have intensified the monitoring and Contractor classification system.
- ✚ GHA will endeavor to involve Land Valuation at the early stages of project preparation and also finalise the project alignment before the actual construction commences. This will help to present a realistic budget to MOF for processing and payment of compensation.
- ✚ Enforce Axle Load control laws to protect the investments made in roads.
- ✚ Open new Toll stations to ensure that funds are readily available for road maintenance
- ✚ Reducing Accident Fatalities on the trunk road network through improvement of safety measures
- ✚ Ensuring that road development and maintenance programmes are executed with environmental and social mitigation measures
- ✚ Adequately recruiting, training and motivating all categories of requisite staff and providing the needed logistics to undertake the services. The recruitment will only be possible if approval is obtained from government.
- ✚ Take practical steps to reduce energy consumption.

## **IGF Generation**

The Authority is exploring IGF potentials within the jurisdiction of Ghana Highway Authority (GHA) and will assiduously harness it to increase the IGF generation to be able to meet its operational expenses.

The GHA will also continue with its programs for the maintenance, rehabilitation and reconstruction of sections of the network to ensure reasonable level of service. The Ghana Highway Authority requires support from our development partners and GOG to be able to implement planned and approved programs. The Authority is determined to continue to discharge its duties in spite of all these challenges