**VII. TRANSPORT AND COMMUNICATION**

A well-developed system of transport and communication is essential for economic development of a country. Good physical connectivity in the urban and rural areas is essential for economic growth. The development schemes under Transport sector are carried out under 5 major heads viz; Ports, Roads and bridges, Road Transport, Inland water Transport and Other Transport Services.

The objective of the Transport Sector is to “build a resilient transport infrastructure and systems to support the mobility, freight and information’s, to achieve economic efficiency, social equity and environmental sustainability”. The amount provided in the budget 2021-22 for the subsectors are detailed below:

|  |  |  |
| --- | --- | --- |
| **Sl. No** | **Sub Sectors** | **Outlay**  **(₹ lakh)** |
| 7.1 | Port, Light Houses & Shipping | 8013.00 |
| 7.2 | Roads & Bridges | 91026.00 |
| 7.3 | Road Transport | 14768.00 |
| 7.4 | Inland Water Transport | 14610.00 |
| 7.5 | Other Transport Services | 16008.00 |
|  | **Total** | **144425.00** |

**7.1 PORTS, LIGHT HOUSES AND SHIPPING**

Ports light houses and shipping sector deals with subject of coastal navigation and logistics. In Kerala, there are four operational ports out of 17 notified ports. They are Azhikkal, Beypore, Kollam and Vizhinjam Ports. Department of Ports, Harbour Engineering Department, Hydrographic Survey Wing, VISL and Azhikkal Port Ltd (Malabar International Port & SEZ Ltd) are the agencies involved in the activities related to ports in the State. With the advent of Kerala Maritime Board, all activities related to ports and shipping is entrusted with KMB. An amount of ₹8013.00 lakh is provided in the Budget 2021-22 for Ports, light houses and shipping sector.

The sub sector wise allocation for Port sector in the Budget 2021-22 is as detailed below.

|  |  |  |
| --- | --- | --- |
| **Sl No** | **Name of Department** | **Outlay**  **(₹lakh)** |
| 1 | Port Department | 6913.00 |
| 2 | Harbour Engineering Department | 755.00 |
| 3 | Hydrographic Survey Wing | 345.00 |
|  | **Total** | **8013.00** |

**Port Department & Kerala Maritime Board**

The Department of Ports administers 17 non major ports along the 585 km long Kerala coast until January 2018. As per KMB Act 2017, the Port Department is brought under the Kerala Maritime Board, which is mandated to administer, develop & manage all non-major ports in the State.

**1. Kerala Maritime Board**

**(Outlay ₹1.00 lakh)**

The Kerala Maritime Board is constituted as per vide GO (Ms) no 1/2018 F&PD dated 2/2/2018 based on Kerala Maritime Board Act, 2017. Kerala Maritime Board is constituted for Development of non-major Ports in the state to promote coastal shipping. The Chairman and the Board Members have assumed charge with effect from 25/07/2018 at the Regional Office of Kerala Maritime Board. The Board consists of Chairman, Vice chairman, 3 ex-officio members, representative of Indian Navy, representative of Indian Coast Guard, Chief executive officer VISL and 4 selected members. Kerala Maritime Board functions to enhance activities related to maritime trade in ports by arranging adequate facilities to make port operations scientific. A token provision of ₹1.00 lakh is provided in the budget 2021-22 for administration & governance infrastructure. Additional amount required for the Board as and when it becomes operational in full swing may be obtained through additional authorisation or re-appropriation in the port sector.

**2. E-governance and capacity building in KMB**

**(Outlay: ₹ 225.00 lakh)**

KMB is a newly formed body for the management of non-major ports in Kerala. Its business has to be undertaken in accordance with government’s e-governance policy. The modern scenario demands e-governance in port administration and shipping operations. The scheme is intended to create web based business platform for port activities. In future the web portal will act as a nod for bridging trade activities between different sectors in the state and other parts of the country and world. An amount of ₹225.00 lakh is provided for the financial year 2021-22 for undertaking the following activities. Of which ₹23.00 lakh is provisioned for empowering women work force in the department.

| **Sl. No.** | **Component Name** | **Amount**  **(₹ In lakh)** |
| --- | --- | --- |
| 1 | Digital File System | 225.00 |
| 2 | Procurement of Infrastructure for E-office |
| 3 | Procurement of computers and accessories, other electronic Equipment |
|  | **Total** | **225.00** |

**3. Implementation of KIV Rules**

**(Outlay: ₹200.00 lakh)**

Kerala Inland Vessel Rules ACT– 2010 regulates transport and vessels in the Inland waterways. This scheme supports port department for the implementation of KIV rules 2010. It lays down specific standards for safety, security and pollution control to be followed by vessels plying in inland waterways. The Port Department is bound to ensure strict compliance and adherence to the provisions of the law to achieve responsible and sustainable utilization/development of the natural resource. By smooth implementation of KIV Rules, Kerala’s wide network of interconnected inland waterways will become safe, secure, pollution free, attractive and significant revenue earner for the tourism sector. The state government and Inland Water Authority of India is working to utilize the waterways for safe, secure, economic and environment friendly movement of cargo and passenger. An amount of ₹200.00 lakh is provided in the financial year 2021-22 in undertaking the following activities.

**a. Regulatory Functions under KIV Rules**

The scheme envisages provisions for human resource and allied expenditures in strengthening the institutional arrangement for the implementation of rules, establishing a joint implementation/enforcement team to conduct inspections for law enforcement, maintenance of survey equipment, fuel expenses, survey and inspections, associated travel expenditure, investigations and studies connected with KIV Rules and adoption of best practices under KIV Rules. An amount of ₹100.00 lakh is provided for this purpose in budget 2021-22.

**b. Infrastructure Development for KIV Rules Implementation**

The scheme has provision for establishing navigational aids including marking buoys, purchase of survey equipment, construction of a shed for parking KIV speed boat, procurement of inspection vessels, procurement of land for construction of jetty, procedure for procuring land for detention yard, security room and amenities for detention yard, enhancing safety and security systems in inland waterways and implementation of e-registration facility. An amount of ₹100.00 lakh is provided for this purpose in budget 2021-22.

**4. Augmentation of workshop and stores organization**

**(Outlay: ₹440.00 lakh)**

The Mechanical Engineering Wing (MEW) is the technical arm of the Department entrusted with the procurement, operation, maintenance and fixation of hire charges/rates of floating crafts, cranes and all other equipment in the non-major ports under Department of Ports. There are two Mechanical Engineering Workshops under this department, one at Kollam Port and the other at Beypore Port, managed by the Mechanical Engineering Wing (MEW).

This scheme envisages up keep and modernization of offices & workshops under Mechanical Engineering Wing of KMB. These workshops are entrusted with procurement of stores and spares, consumables including fuel for operation, maintenance and repair of tools, plants and equipments, floating crafts including tugs, dredger, port equipments, ITVs, renewable energy sources like solar systems, standby emergency power supply units/generators and necessary support systems to provide un-hindered shipping operation. An amount of ₹440.00 lakh is provided in the budget 2021-22 for undertaking the following activities.

| **Sl. No.** | **Name of the component** | **Amount**  **(₹ In lakh)** |
| --- | --- | --- |
| 1 | Annual maintenance of Tugs, cranes, dredger, forklift and all other operational equipments in Kozhikode Port. | 440.00 |
| 2 | Annual maintenance o Tugs, cranes, dredger, forklifts and all other operational equipments in Kollam Port. |
| 3 | Up grading of workshops to international standards at a cost of ₹ 7.5 crore |
| 4 | Procurement of storage racks, storage bins, material handling equipments for new workshop at Kollam |
| 5 | Purchase of tools, store items etc. |
|  | **Total** | **440.00** |

**5. Kerala Maritime Institute - As Centre of Excellence**

**(Outlay: ₹600.00 lakh)**

Kerala Maritime institute is intended to create professionally qualified and skilled human resource in maritime sector through education, research and training with long term perspective of making Kerala a maritime educational hub in India. The institute has two campuses i) Neendakara and ii) Kodungallur. An amount of ₹600.00 lakh is provided for the financial year 2021-22 for undertaking the following activities.

(a) **Infrastructure development**:  Construction of additional facilities like construction of auditoriums, workshops, furnishings, development of websites and portals, establishments of labs, library and mock ships required for the training of sea farers as required etc. An amount of ₹500.00 lakh is provided for the financial year 2021-22 for the implementation of the scheme

(b) **Human Resources Development**

To mobilise qualified resource persons by imparting training, securing national and international affiliation, accreditation and certification, undertake promotional activities, advertisements, organizing conferences, workshops, seminars, encouraging internships, maritime researches & projects, publication of research results etc. The institute has to start courses in Maritime sector aligning international compatibility. An amount of ₹100.00 lakh is provided for the financial year 2021-22 for the implementation of the scheme. Of which ₹25.00 lakh is earmarked for women.

**6. Development and promotion of Coastal Shipping**

**(Outlay: ₹225.00 lakh)**

Coastal Shipping is the flagship project implemented by the Governmment of Kerala envisaging holistic development of shipping maritime and allied sectors. The target is to divert 20% of the cargo from roads through coastal shipping by the year 2020. The project also explores the possibility of integrating the project with coastal tourism, fisheries, maritime education & training, industries and services etc. The costal shipping operation has started connecting Kollam, Beypore & Azhikkal Ports and the project also envisages coastal passenger movement. The provision included in the scheme are attractive, incentive/subsidy schemes for promotion of coastal shipping, financial support to build coastal vessels, constitution of the corpus fund for coastal shipping promotion, chartering of coastal shipping vessels, procurement of high speed catamaran, inspection boats, payment of contract remuneration to coastal shipping managers, pilots, payment of fees to consultants, payment of cost recovery charges to customs, emigration facilities, provision of necessary funds for CISF, hiring human resource from various streams like technical, financial, managerial & project management fields in the Project Management Unit.

The promotional activities for the initiation of coastal passenger services between Cochin-Calicut, Cochin-Thiruvananthapuram, and Kovalam-Kanyakumari and passenger operations between Kerala Ports and Lakshadweep islands, Coastal Cargo movements from Gujarat, Mangalore and Tuticorin with Ports in Kerala are also included in the scheme

An amount of ₹225.00 lakh is provided in the budget 2021-22 for Coastal shipping incentives and remuneration for coastal shipping.

**7. Port infrastructure Development for shipping Operations**

**(Outlay: ₹4219.00 lakh)**

The objective of the scheme is to develop full-fledged port infrastructure including tools and equipment for the sustainable movement of cargo and passenger transportation in the identified ports namely Azhikkal, Beypore (Kozhikode), Kollam, Vizhinjam and Ponnani, based on the development plans of each port with due focus on tourism activities. The total outlay under the major head is ₹4219.00 lakh and scheme covers port specific activities like, land acquisition, conservation, development of port and allied infrastructure including connectivity, procurement and maintenance of navigation aids, floating crafts, handling and safety equipments, and allied operation facilities required for port operations.

**a) Development of Azhikkal Port (Riverine Port)**

**(Outlay: ₹350.00 lakh)**

The existing Azhikkal Port is a riverine port, located 4 km upstream in Valapattanam River in Kannur district. The Port Department has initiated steps to enhance the existing facilities at Azhikkal port. The port is a thriving trade centre with Lakshadweep, movement of timber and wood products to and from Mumbai and other parts of the country are handled in the Port. The Department started works to develop the Coastal Shipping at Azhikkal, connecting Cochin and Kollam Ports. The port has all necessary facilities like 230 m berth, wharf, Container and bulk handling Harbour Mobile Crane, Reach Stacker & Weigh Bridge and is capable of handling dry bulk, break bulk, container and project cargo.

The activities in the scheme are capital dredging, providing water supply to land conservation activities, implementation of ISPS Code Development of port services and anciliary facilities**.** An amount of ₹350.00 lakh is provided in the budget for the financial year 2021-22 for above activities and spill over commitments

**b) Vizhinjam Cargo Harbour**

**(Outlay: ₹1100.00 lakh)**

Vizhinjam Cargo harbour lies very close to the international shipping channel and is the operational port in the Capital City of Thiruvananthapuram. The proximity to International transhipment terminal offers better business opportunities. Vizhinjam Port caters to the regular shipping services to Maldives and also serves the international cruise services calling at Vizhinjam. The scheme envisages conservation, maintenance & development of various maritime & terrestrial infrastructure and allied operational facilities required for port operations. An amount of ₹1100.00 lakh is provided in the budget 2021-22 for the following activities and spill over commitments.

| **Sl. No.** | **Name of the component** | **Amount**  **(₹ in Lakh)** |
| --- | --- | --- |
| 1 | Rectification of Seaward break water | 1100.00 |
| 2 | Rectification of leaward wharf |
| 3 | Establishing of Crew change facility and Passenger terminal and watch tower at Vizhinjam |
| 4 | Establishment Bollards, Providing CISF security |
| 5 | Procurement of 25 bollards pull capacity Tug |
| 6 | Deepening of basin of Port |
|  | **Total** | **1100.00** |

**c) Development of Thankassery port (Kollam Port)**

**(Outlay:** ₹**1000.00 lakh)**

Kollam Port is a medium draft sea port and it will remain a major feeder point to the larger ports such as Cochin, Tuticorin and upcoming Vizhinjam International Transhipment. The existing Kollam port was commissioned in the year 2007 with a 178.5 m berth. The port has 6 m draught and equipped with Container handling equipment, stack yard, transit sheds, customs EDI, passenger cum multi-purpose berth and sales tax clearance facility. The Rail and Inland waterway connectivity to the port is to be established. The depth in channel and basin will be increased to a minimum of 10 m initially and subsequently 12 m, to accommodate bigger vessels and ensure optimum utilization of the facility. An amount of ₹1000.00 lakh is provided for the financial year 2021-22 for the following activities and spill over commitments.

| **Sl. No.** | **Name of the component** | **Amount (**₹**in lakh)** |
| --- | --- | --- |
| 1 | Dredging of the channel and basin to 10m/12m in Phases | 1000.00 |
| 2 | Implementation of ISPS code, EDI, Sales tax, Plant Quarantine facilities & Immigration centres & establishment of navigational aids |
| 3 | Connecting new wharf to old wharf |
| 4 | Renovation of Transit shed at Neendakara |
|  | **Total** | **1000.00** |

**d) Development of Alappuzha Port**

**(Outlay:**₹**275.00 lakh)**

The Alappuzha port is to be developed as a Marine Tourism Destination with Coastal Passenger Terminal, as per the detailed feasibility report prepared by M/s Deloitte. The breakwater, passenger terminal and allied facilities will be developed. Possibilities will be explored to secure component wise funding assistance from SAGARMALA for breakwater, capital dredging, berthing and development of modern passenger amenities at Alappuzha Port.

The scheme envisages assistance to the on-going port developmental activities as well as new activities identified covering marine and land infrastructure facilities*.* This includes marina/ passenger terminal and coastal tourism infrastructure, land acquisition & property development, hinterland connectivity, recreational, hospitality services, passenger amenities, Maritime History Museum, procurement of navigation aids, safety equipment, floating crafts, Pier renovation works, Developing Mareena and other facilities required for port operations. An amount of ₹275.00 lakh is provided for the financial year 2021-22 for undertaking the activities and spill over commitments.

**e)Development of Ponnani Port**

**(Outlay: ₹1.00 lakh)**

Ponnani Port is being developed in PPP model as an All Weather Port. Government of Kerala has entered into a Concession agreement with M/s Malabar Ports Private Limited for the development of the Port. PPP is one of the widely accepted infrastructure development model in which government and private partner share the investments, benefits and risks based on a long term concession agreement. In ports PPP model enhances port performance by adopting competitive operation model and superior technology. Ponnani will be third in line of the major PPP port development projects after Vallarpadam Terminal and Vizhinjam Terminal. The scheme envisages taking up complimentary works by the Port Department which are not provisioned under the PPP project during 2021-22. A token provision of ₹1.00 lakh is provided for the schemes in the budget 2021-22.

**f) Development of Beypore and Kozhikode port**

**(Outlay: ₹1493.00 lakh)**

Beypore Port is a seasonal port, the second largest port in the state after Cochin Port with respect to volume of cargo and passengers handled per annum. The port remains a key node of connectivity between the mainland and Lakshadweep Islands. The scheme proposes finalization of a master plan for the overall development of Beypore Port through a competent consultant. The objective of the scheme in this year is to attract more cargo to this port.

Major infrastructure development planned at Beypore are additional berths of 175 m in the eastern side and 300 m. berth in the western side of the existing berths, deepen the channel, turning circle and basin to a minimum depth of 6 m, development of road/rail connectivity with land acquisition for future developments. The scheme envisages activities at Kozhikode like capital dredging, land conservation & acquisition, development of port and allied infrastructure like connectivity, storage, services, procurement and maintenance of navigation aids, floating crafts, handling & safety equipments and other operational facilities required for port operations. An amount of ₹1493.00 lakh is provided in the budget 2021-22 for the following activities and spill over commitments.

| **Sl. No.** | **Component Name** | **Amount**  **(₹ in lakh)** |
| --- | --- | --- |
| 1 | Construction of new 200 meter wharf (east side) and 150 meter RCC wharf(north side) | 1493.00 |
| 2 | Dredging of channel and basin |
| 3 | Construction of warehouse |
| 4 | Land Acquisition and development |
|  | **Total** | **1493.00** |

**8. Development of Other Non-Major Ports**

**(Outlay:**₹**500.00 lakh)**

The objective of the scheme is the development of various marine & terrestrial infrastructure and allied facilities for operation of non-major ports in Kerala such as Neendakara, Valiyathura, Kayamkulam, Manakkodam, Munambam-Kodungallur, Thalasserry, Kozhikode, Kannur, Cheruvathoor-Neeleswaram, Kasaragod and Manjeswaram. The primary goal of the Kerala Maritime Board is to ensure optimum utilisation of the existing facilities in the ports along with future development plans. An amount of ₹500.00 lakh is provided for the financial year 2021-22 for undertaking the following activities.

| **Sl. No.** | **Component Name** | **Amount (₹ in lakh)** |
| --- | --- | --- |
| 1 | Implementation of ISPS Code, Land Conservation and development activities | 500.00 |
| 2 | Renovation of various buildings/old godowns at Valiyathura, Thankassery, Ponnani, Kodungallur . |
| 3 | Dredging & Reclamation works |
|  | **Total** | **500.00** |

**9. Development of Vizhinjam International Sea Port Ltd**

**(Outlay: ₹1.00 lakh)**

Vizhinjam International Sea Port is the first deep water transhipment port of the country. The key attractions of the Vizhinjam international seaport project are its natural depth of 18 m, the nearness of 10 nautical miles to the international shipping route and the minimal maintenance dredging requirements. The first phase of the port is planned with a container handling capacity of 1 Million TEU (Twenty Foot Equivalent Units) with 800 m berth length with future expansion plans to 3 Million TEU/2000 m berth length in successive phases. The total estimated cost of the first phase of the project is ₹7700.00 crore with (i) ₹4089.00 crore as PPP component (ii)₹1463.00 crore as funded work of breakwater (iii) ₹1808.00 crore for external infrastructure and land acquition (iv) ₹340.00 crore for R&R for project affected people and for general administration expenses.

This is the first port project in the country being executed in Public Private Partnership (PPP) model with Viability Gap Funding (VGF) from Government of India (GoI). Out of the PPP component of ₹4089.00 crore, investment of ₹1635.00 crores is the VGF part (with ₹817.8 crores from GoI and ₹817.2 crore by Government of Kerala) and the investment of ₹2454.00 crore is by the Concessionaire, AVPPL.

At present, VISL has completed a) 600 m length of breakwater (out of 3100 m), b) 33 Ha of land reclamation (out of 53 Ha), c) made 615 numbers of piles (out of 615 numbers) for 800 m long berth, d) casting of 10400 number of Accropode-II (out of approximately 17000 numbers) for breakwater (e) concrete pre-casting works of structural members of berth, (f) 11KV electric line, (g) 3.3 MLD Water treatment Plant commissioned and construction of boundary walls is progressing, 95% of Land acquisition for connectivity to NH 66 completed, preliminary works for railway connectivity and allied works are in progress.

A token provision of ₹1.00 lakh is provided in the budget 2021-22. The scheme is included in the list of MIDP. Funds for meeting the State share of the project cost can be obtained from the outlay provided under the head “Major Infrastructural Development Projects”, depending on actual requirement.

**10. Green Field Feeder Port (Outer Harbour) – (Azheekkal Port) Renamed as Malabar International Ports and SEZ Ltd**

**(Outlay: ₹500.00 lakh)**

The company has recently been renamed asMalabar International Ports and SEZ Ltd.The objective of the scheme is the development of a Green Field Feeder Port (Outer Harbour) to serve northern part of Kerala and southern part of Karnataka. The port will offer efficient facilities for maritime industry with an impact to hinterland industrial development.

The development of the outer harbour and feeder port will be undertaken by Malabar International Ports and SEZ Ltd, a Special Purpose Vehicle under the department of Ports in Government of Kerala formed under Companies Act 2013 with an authorised Capital of ₹100.00 crore. The Company will oversee the planning, designing, necessary statutory clearance, resource mobilization, development and subsequent operations of the port under an appropriate operational model and, adopting internationally accepted best practices in the sector. To handle ships up to 12.6m draught (depth) in Phases1 and 2 and 14.5m in Phase 3. Present estimated project cost: ₹3698 crore (₹2263+₹688+₹747) in 3 phases. Estimate for connecting road to NH is ₹103 crore (₹48+₹2+₹53) in 3 Phases. Rail connectivity is proposed only in the 3rd Phase. Amount had been provided for land acquisition, development, conservation, rehabilitation, utility development (power and water supply), EIA clearance (Statutory fees), outsourcing and consultancy project management and establishment. An amount of ₹500.00 lakh is provided for the activities of Malabar International Ports and SEZ Ltd for the year 2021-22.

**11. a. Sagarmala project (State share) (Outlay:** ₹**1.00 lakh)**

**b. Sagarmala project (Central share)** **(Outlay:**₹**1.00 lakh)**

SAGARMALA project is the Central Sector scheme envisioning port led development by optimally utilizing the 7500 km long coastline of the country. Sagarmala provides assistance in two forms, one is in the form of financial assistance for component wise development in ports including dredging, breakwater construction, berth construction, modernization etc and other in the form of equity support to SPVs undertaking development of ports and allied infrastructure. Department of ports is exploring possibilities for availing financial assistance for construction of berths and dredging of channel and basin at Kollam & Beypore ports in the Financial Year 2021-22. As the central assistance under Sagarmala is on project mode based on approval from Government, a token provision ₹1.00 lakh each is provided under respective heads of account as state share and central share in the Annual Budget 2021-22 for sourcing central assistance.

**7.1.2 Harbour Engineering Department**

Harbour Engineering Department is functioning under the Department of Fisheries, Government of Kerala. The harbour engineering department acts as a service agency for the fisheries, Port and Tourism Departments. In addition, it manages and upkeep all fishing harbours. The major task of the department is to investigate, explore, develop and execute new methods and technology for creating infrastructure development in marine sector. It provides technical support to Fisheries Department, Port Department and Tourism Department in coastal sector in upgrading the performance of these departments. The following schemes are included to implement by HED in port sector in the financial year 2021-22.

1. **Modernisation, Research and Development of Harbour Engineering Department**

**(Outlay: ₹755.00 lakh)**

Harbour Engineering Department has 36 offices (24 sub divisional offices, 8 divisional offices, 3 circle offices and office of CE) in the state.

The objective of the scheme is to equip HED in up scaling its administration, governance and project management capacities. The scheme include up gradation and up keep of administrative and allied infrastructure of HED, training and capacity building, e-governance and R&D activities of HED. This is an on-going scheme. The scheme is operated under 3 heads. The components of the scheme are detailed below.

1. **Capital works of HED**

Infrastructure Development works

On-going projects/works

* Construction of subdivision office Manjeswaram, Type II quarters at Kamaleswaram, new office building for investigation and construction of subdivision at Beypore, Kozhikode, construction of subdivision office Chellanam, construction of guest house at Vizhinjam, maintenance of quarters at Kamaleswaram,

New Project/work

* Installation of solar power plants in various offices

The scheme also intends to meet the spill over commitment of the programmes/projects initiated in the previous years. An amount of ₹ 600.00 lakh is provided for the financial year 2021-22 for implementing the above components.

**b) Training and Capacity building (HED)**

This component is intended for the capacity building of officers and staff of Harbour Engineering Department by imparting training through accredited institutions and ensuring basic digital background for office administration. This include training, workshops, seminars, study visits, activities related to e-governance, IT infrastructure, bio-metric punching in HED offices, internet charges & renewal of software licenses.

1. E-ofﬁce implementation at 3 Circle Ofﬁces and 8 Division Ofﬁces of HED.
2. Implementation of Adhaar enabled Biometric Punching machine system in all HED ofﬁces.
3. Internet charges for all online applications such as Spark,Price,ipromise,Bims,Bams,CMO portal, Plan space etc.
4. Training for departmental personnel of HED which recognized institutions.
5. Capacity building programmes, workshops and technical seminars.
6. Field visit to ports and other off shore structures within or outside India.
7. IT hard & soft infrastructure procurements

An amount of ₹100.00 lakh is provided for the financial year 2021-22 for implementing the above components.

**c) Research and Development (HED)**

The following components included for the Budget 2021-22

*This component is included for* (i) Construction of quality control lab in three circle offices, (ii) Purchase of design software such as AutoCAD, Staad Pro, Rivet, etabs.,(iii) Investigation, Planning and design of projects, (iv) Adopting new technologies, including R&D expenses connected with innovative projects,(v) Documentation of projects, (vi) Up gradation of Library, Purchase of Books pertaining to the surveys and studies(vii) Purchase of survey equipments, tools & plants for quality control lab, (ix) Posting interns for assisting in design, investigation, quality control etc. An amount of ₹55.00 lakh is provided for the financial year 2021-22 for implementing the above components.

**7.1.3 Hydrographic Survey Wing**

The Hydrographic Survey Wing was constituted in 1967 as a component of the Kerala Port Department, to meet the requirements of hydrographic investigation. The Wing conducts Pre & Post-dredging Surveys and Pre & Post Monsoon surveys in order to ascertain nature of coastal belts ensuring seamless navigation. The wing also undertakes Hydrogaphic Survey requirement of Harbour Engineering Department, Fisheries Department and other Government Organizations as well as furnishes Hydrographic data demanded by the National Hydrographic Office, Dehradun (Indian Navy), for updating the navigational chart.

**1. Hydrographic Surveys-Pre-Monsoon and Post-Monsoon Dredging**

**(Outlay:** ₹**95.00 lakh)**

The scheme is for collecting hydro graphic data. Dredging is to be done in several occasions in ports, canals and waterways etc. In order to plan and conduct dredging, accurate hydro graphic data is needed. This scheme aims to collect accurate Hydrographic data and preparation of Hydrographic charts of intermediate and minor ports in Kerala. With the help of accurate data, speedy and systematic dredging can be done ensuring seamless and smooth movement of vessel.

This scheme includes Project surveys, Maintenance and Insurance of survey vessels, Digitisation of Kerala coast, Inland Navigation surveys, investigations and feasibility study of water bodies, Hydrographic chart preparation, tidal data collection and dredged volume calculation.

Hydrographic Surveys (45 Nos), Project surveys (25 Nos), Maintenance and insurance of survey vessels – (5 Nos), Water metro survey(1 No.). Training and workshops, purchase for survey software(2 nos) and data processing and preparation of Hydro graphic charts (100 Nos) are the components of the scheme. An amount of ₹95.00 Lakh is provided for the financial year 2021-22 for undertaking the above activities.

**2. Hydrographic Survey Institute in Kerala**

**(Outlay:**₹**15.00 lakh)**

Kerala Institute of Hydrography and Advanced Studies (KIHAS) was constituted as a society as per the GO (Rt) No 97/2014/F&PD dated 03.02.2014 and functioning as an independent society in the campus of Kerala University of Fisheries and Ocean Studies (KUFOS). Hydrographic Survey Institute has been conducting Basic Hydrographic Survey Course, Total station survey course and Training to Technical Staff of this wing. The institute also intends to impart training to staff of other departments who works in the hydrography related sector on demand/need basis.

This scheme aims to re-structure the courses and seek affiliation from reputed organisations aspect of institutional strengthening activities. In the Budget 2021-22, the institute also intends to implement the following activities.

|  |  |  |
| --- | --- | --- |
| **Sl. No.** | **Name of the component** | **Amount (₹in lakh)** |
| 1 | Purchase of modern survey equipment and softwares | 15.00 |
| 2 | Infrastructure strengthening of the institute |
|  | **Total** | **15.00** |

An amount of ₹15.00 lakh is provided for the financial year 2021-2022. Of which ₹1.5 lakh is earmarked for women.

**3. Hydrographic Survey Wing - Purchase of Electronic Equipments and Survey Instruments**

**(Outlay: ₹50.00 lakh)**

Hydrographic Survey Wing has been conducting regular hydrographic surveys and providing data and charts for the navigational research and development purposes. To conduct such surveys for collecting accurate data, modern survey instruments and software are necessary. Hydrographic data are essential for the development of ports, fishing harbours and waterways. The scheme aims to provide modern survey equipment for hydrographic survey.

Purchase of modern survey instruments and software such as Echo sounder, DGPS, two Plotters etc are included in this scheme. An amount of ₹50.00 lakh is provided for undertaking the following activities for the financial year 2021-22.

| **Sl. No.** | **Component Name** | **Amount**  **(**₹ **in lakh)** |
| --- | --- | --- |
| 1 | Purchase of plotters | 50.00 |
| 2 | New DGPS for Beypore Office |
| 3 | Purchase of 1 Echo Sounder |
|  | **Total** | **50.00** |

**4. Replacement and Renovation of Survey Vessels**

**(Outlay:** ₹**100.00 lakh)**

The Hydrographic Survey Wing is equipped with a fleet 7 Survey vessels and Dinghies. As the activities of Hydrographic Surveys are increasing, frequent repairs and renovation of the existing vessels are needed. The scheme is intended to facilitate renovation and replacement of survey vessels and equip the wing with modern vessels.

Special repair of the vessel M.V. Jalagaveshini, maintenance of dinghies and purchase of life saving equipment are included in the scheme. An amount of ₹100.00 lakh is provided for the financial year 2021-22 for undertaking the following activities.

| **Sl. No.** | **Name of the component** | **Amount**  **(₹ in lakh)** |
| --- | --- | --- |
| 1 | Stage payment of new twin screw vessel(1 No) | 100.00 |
| 2 | Renovation of vessels (2 Nos) |
| 3 | Maintenance of Inland Vessels (3Nos) |
|  | **Total** | **100.00** |

**5. Construction and renovation of office buildings, boat shelters and quarters**

**(Outlay:**₹**25.00 lakh)**

Hydrographic Survey Wing has 7 offices and it maintains several boat shelters. Three of the offices (Thiruvananthapuram, Kozhikode and Kodungallur) have own buildings and the other 4 offices are working in the buildings owned by other government departments/agencies. For keeping the assets in good condition, renovation and civil works are needed. The scheme is intended for renovation of the offices and boat shelters. The amount is provided for renovation work of the old building of Marine Surveyor office and Kollam,new boat jetty for berthing of survey vessels. An amount of ₹25.00 lakh is provided for the financial year 2021-22 for undertaking the activities coming under the scheme.

**6. Digital Governance in HSW**

**(Outlay:** ₹**60.00 lakh)**

To bring the core process and functions of Hydrographic Survey Wing into digital mode for seamless delivery of services/outputs is the core objective of the scheme. Marine survey and research demands seamless processing and transfer of data between data providers and analysts/researchers in digital mode. This demands processing of data/preparation of charts and transfer of data in hydrography sector to digital platform. A web based system will improve the speed of survey, preparation of charts and transfer of data, which involves development and implementation of e-charting, e-filing system with the guidance of the IT mission is needed.

Web based software for processing of data, e-charting and e-filing, training of technical staff, other IT hardware and softwares are included in the scheme*.* An amount of ₹60.00 lakh is provided for the financial year 2021-22 for the scheme.

**7.2 ROADS AND BRIDGES**

The Thirteenth Five Year Plan gives thrust on up gradation of the Road and Road Transport infrastructure, thereby improving the mobility and accessibility, ultimately reducing travel time, vehicle maintenance cost and reduction in accidents. The activities in this sector are on development and improvement of State Highways, Major District Roads, rehabilitation/ reconstruction of bridges in State Highway’s (SH’s) and major districts roads and emphasis on road safety, R&D, training and capacity building and use innovative technologies.

The major activities in the sector comprises of:

1. Development of National, Hill and Costal Highways.
2. Construction and Improvement of Roads & Bridges in State Highways and Major District Roads.
3. Kerala Highway Research Institute as a Centre of Excellence.
4. Construction of Bypasses, Urban links, Sea port - Airport Roads, Sabarimala Roads and Road & Railway safety works.
5. Railway development works through the Joint Venture, Kerala Rail Development Corporation (KRDCL).
6. Training, Capacity Building, R&D activities.

The departments under Roads and Bridges sector are PWD (NH) and PWD (R&B). The outlay earmarked for Roads and Bridges sector is ₹91026.00 lakh, of which, ₹9594.00 lakh is provided for PWD (NH) and ₹81432.00 lakh (including ₹20000.00 lakh EAP & ₹25941.00 lakh NABARD assistance) for PWD (R&B).

The schemes in Roads & Bridges sector broadly cover State Highways, Major District Roads and National Highways.

**I. Public Works Department (Roads& Bridges)**

**State Highways and Major District Roads**

1. **Development and Improvement (SH)**

**(Outlay:** ₹**5420.00 lakh)**

The objective of the scheme is the development and improvement works in State Highways. A 185 km stretch road works are completed and another 415 km works are in progress.

The amount provided envisages upgradation of 360 kms of roads to State Highway standards and meeting spill over commitments.

An amount of ₹5420.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Bridges and Culverts (SH)**

**(Outlay:** ₹**4360.00 lakh)**

The Scheme is intended for construction/reconstruction of bridges and culverts along State Highways. The provision covers reconstruction/capital maintenance works of bridges/ culverts, new bridges along State Highways and to take up special protection works of existing bridges/culverts. The amount provided envisages construction of 11 No’s of bridges/ culverts and meeting spill over commitments.

An amount of ₹4360.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Development and Improvement (MDR)**

**(Outlay**: ₹**5759.00 lakh)**

The scheme aims to carry out heavy maintenance (BM & BC/Cement Concrete Roads) in Major District Roads to minimize over straining the existing infrastructure due to the increased transport demand. It is proposed to take up plastic/rubberized bitumen technology in road construction and promote natural rubber consumption. MDRs having carriageway width less than 5.5 m of 15711 km needs to be upgraded to MDR standards (5.5 m). The amount provided envisages upgrading Major District Roads into IRC Standards depending on traffic volumes and improving geometrics. 1261 km road maintenance activities have been completed and 964 Km works are progressing. The activities cover BM & BC works on existing Major District Roads to meet the increased transport demand and earmarks ₹10.00 crore exclusively for the ongoing development of two Model corridors from National Highway to Sivagiri Mutt.

An amount of ₹5759.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Bridges and Culverts (MDR)**

**(Outlay:** ₹**5797.00 lakh)**

The scheme focuses construction of new bridges/reconstruction of the existing bridges and culverts on Major District Roads. The provision includes land acquisition charges, reconstruction/capital maintenance works of bridges/culverts along Major District Roads and to take up special protection works of existing bridges/culverts.

An amount of ₹5797.00 lakh is provided for the scheme in the Budget 2021-22. Out of this, ₹3000.00 lakh is exclusively provisioned during 2021-22 to take up balance urgent rehabilitation works of Bridges and Culverts identified in 2017-18, based on Enathu Bridge failure on priority basis.

1. **NABARD works –Construction and Improvement of Roads**

**(Outlay:** ₹**15941.00 lakh)**

The provision is intended for completing the on-going RIDF road works under RIDF schemes XX to XXV and new works under RIDF XXVI.

An amount of ₹15941.00 lakh is provided for the scheme in the Budget 2021-22.

1. **NABARD works –Construction and Improvement of Bridges**

**(Outlay:** ₹ **10000.00 lakh)**

The provisions are to be used for completing the existing projects of bridges under RIDF schemes XX to XXV including new works proposed to be taken up under RIDF XXVI.

An amount of ₹10000.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Construction of Airport – Seaport Road**

**(Outlay:** ₹**1500.00 lakh)**

Government of Kerala entrusted the construction of a modern highway between Cochin Seaport and Cochin International Airport to RBDCK with NH standards. RBDCK completed the construction of first phase of Airport Seaport road from Karingachira to Kalamassery (13.5 km) as a two lane road. The second phase of road from HMT to airport is divided into 3 sections:

* Section A – HMT to Mahilalayam
* Section B – Mahilalayam to Chowara (completed)
* Section C – Chowara to Airport

Section B including two bridges across Periyar (Mahilalayam to Chowara) has already been completed. The work of the road portion from HMT to Naval Armament Depot (NAD) in the section A is progressing. Land owned by HMT and NAD is to be obtained for completing the construction of this portion of road. Balance work in the Section A from NAD to Mahilalayam is included in the KIIFB scheme. Section C can be taken up after the completion of section A and B.

An amount of ₹1500.00 lakh is provided for the scheme in the Budget 2021-22 for completing the Section A package I (HMT to NAD).

1. **Sabarimala Road Project**

**(Outlay:** ₹**1760.00 lakh)**

This project intends to undertake the balance heavy maintenance and development works of Sabarimala Roads in a phased manner as per IRC standards. Administrative sanction has been accorded for ₹25 crore as per the G.O (Rt) No722/2020/PWD dated 09/09/2020, for maintenance works including heavy maintenance works in Sabarimala areas, and the works are in tendering process. To carry out the works, an amount of ₹1760.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Development of Roads in Thiruvananthapuram, Kochi, Kollam, Kozhikode and Thrissur Cities.**

**(Outlay:** ₹**250.00 lakh)**

The objective of the scheme is to resolve traffic congestion in major cities by developing urban links to PWD roads and enhance transportation capacity of PWD roads in the five major cities viz, Thiruvananthapuram, Kollam, Kochi, Thrissur and Kozhikode. The scheme envisages BM & BC/Concrete Road improvement works on identified urban link roads including existing roads, formation and widening and land acquisition cost based on Comprehensive City Mobility Plans/District Road Network development plans.

An amount of ₹ 250.00 lakh is provided for the scheme in the Budget 2021-22.

1. **State Road Improvement Project (SRIP)**

**(Outlay:** ₹**144.00 lakh)**

The Project envisages scientific development of selected State Highways and Major District Roads with designed pavements, shoulders, footpaths, culverts, bridges, drains, ducts for utilities and road safety works.

The project proposes to improve the roads under two packages, “Rehabilitation” Package and “Up gradation” Package. The Rehabilitation Package involves development of the existing roads without land acquisition where as marginal land acquisition required under upgradation package for geometrical corrections and junction improvements. The Rehabilitation Package will be implemented as a Public Private Partnership Project on BOT – Annuity mode and Upgradation Package will be implemented availing financial assistance from appropriate financial institutions.

The details of roads under Rehabilitation Package are:

**Package –A (Modified) (25 km)**

* Vidyanagar – Maipady – Seethangoli Road, Kasargod (9.40 km)
* Uppala – Kaniyana Road, Kasargod (15.60 km)

**Package – B (58 Km)**

* Kanjirapally - Kanhiramkavala Road (Sabarimala - Kodaikkanal Road), Kottayam (36.10 km)
* Vellanadu-Aryanadu-Chettachal Road, Thiruvananthapuram (21.90 km)

The package A&B are completed and switched over to annuity payment mode. The upgradation packages are to be taken up exploring other sources of funding.

An amount of ₹ 144.00 lakh is provided for spill over payments under package A&B in the Budget 2021-22.

1. **Implementation of PPP (Annuity) Road Maintenance Projects**

**(Outlay:** ₹ **5886.00 lakh)**

The Public Works Department intends to extend the P.P.P. (Annuity) model project concept followed in the State Capital Road Improvement Project to other cities to ensure that maximum road length is upgraded as quality roads with suitable warranty provisions.

In general, as per Concession Agreement, the first annuity payment date will fall due after 180 days from date of Commercial Operation Date (COD). The financial commitment towards payment of Annuity during 2021-22 is given below:

|  |  |
| --- | --- |
| **Year** | **Concessionaire** |
| 2021-22 | **Package –A (Modified)**   * Vidyanagar – Maipady – Seethangoli Road, Kasargod (9.40 km) * Uppala – Kaniyana Road, Kasargod (15.60 km) |
| **Package – B**   * Kanjirapally - Kanhiramkavala Road (Sabarimala - Kodaikkanal Road), Kottayam (36.10 km) * Vellanadu-Aryanadu – Chettachal Road, Thiruvananthapuram (21.90 km) |

An amount of ₹5886.00 lakh is provided for the scheme in the Budget 2021-22 for meeting annuity payments.

1. **Feasibility Studies for New Schemes/ Projects (Roads)**

**(Outlay:** ₹ **350.00 lakh)**

Public Works Department is taking up major projects routinely which require feasibility studies, DPR preparation and detailed design and implemental plans. Provisions need to meet the expenditure on conducting feasibility studies, investigation studies, preparing DPR for new schemes, projects/programmes for those works undertaken by the department as well as through institutions like KHRI, NATPAC and other agencies.

Preparations of Comprehensive Mobility Plan and Road Network Development Plan for all Districts with particular emphasis/priority to Corporations are to be taken up for the planned development of sustainable and safe transport in cities/towns.

An amount of ₹350.00 lakh is provided for the above activities under the scheme in the Budget 2021-22.

1. **Hill Roads (Hill Highways)**

**(Outlay:** ₹**15.00 lakh)**

The objective is to develop North South connectivity enroute eastern side of Kerala as design roads of uniform standards. The proposed alignment has a total length of 1251 km and major works are proposed to be taken up under KIIFB assistance.

An amount of ₹15.00 lakh is provided for the scheme in the Budget 2021-22 for meeting the balance payments of the on-going works in three districts, which were taken up prior to KIIFB assistance.

1. **Kerala State Transport Project (KSTP) Phase II (EAP)**

**(EAP:** ₹**20000.00 lakh)**

The scheme is for implementing the phase II programme of KSTP, by World Bank. The total cost of the project is US$ 445 million (₹2403 Crore). The loan amount is US$ 216 million. The assistance ratio is 56:44 except land acquisition and utility shifting.

The activities under KSTP phase II covers up gradation of 363 Km of roads, Road Safety Management and Institutional strengthening.

The main project components are:

1. Road Upgradation ( Sub component A1+A2) 363 Km – US $ 413 Million
2. Road upgradation under conventional item rate contract (281 Km) – US $ 322 Million
3. Road Upgradation under EPC mode of construction (82 Km) – US $ 91 Million

B. Road Safety Management – US $ 22 Million

1. Development of Safe Corridor Demonstration Project (80 km)
2. Challenge Fund (for implementing local programmes)
3. Road Safety Management, Capacity Building including strengthening of Kerala Road

Safety Authority (KRSA) and other institutions

C. Institutional Strengthening – US$ 10 Million

1. Road Sector Modernization
2. Development of Public Information Management System
3. Capacity building and training
4. Other studies and technical assistance

**Current status of project components**

**A1 - Road upgradation under conventional item rate contract**

**Status of Project 2019-20 (**₹ **in** **crore)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sl.No** | **Name of work** | **Revised contract amount** | **Financial Progress as on 31.05.2020** | **Physical Progress (%)** | **Remarks** |
| 1 | UG 1 - Kasaragod - Kanghangad Road (27.78 km) | 114.00 | 122.85 | 100 | Completed |
| 2 | UG 2 - Pilathara - Pappinisserry Road (20.90 km) | 102.00 | 101.62 | 100 | Completed |
| 3 | UG 3 A- Thalassery - Kalarode Road (28.80 km) ( Re - arranged) | 156.00 | 104.81 | 63.74 | Re arranged. Expected date of completion December 2020. |
| 4 | UG 3 B Kalarode - Valavupara (25.20 km) (Re - arranged) | 200.00 | 191.46 | 86.49 | Re arranged. Expected date of completion for Iritty bridge is 31.12.2020 and for Kootupuzha is 30.4.2021. |
| 5 | UG 4 - Chengannur- Ettumanoor Road (47.70 km) | 288.00 | 278.35 | 100 | Completed |
| 6 | UG 4 A - Thiruvalla Bye pass (2.3 km) | 37.03 | 16.55 | 51.12 | Re arranged. Expected date of completion December 2020. |
| 7 | UG 4 B - Thiruvalla Town (2.00 km) | 7.77 | 4.83 | 98 | Completed |
| 8 | UG 5 - Ettumanoor - Muvattupuzha Road (40.12 km) | 159.00 | 164.71 | 100 | Completed |
| 9 | UG 6 - Ponkunnam -Thodupuzha Road (50 km) | 270.00 | 223.25 | 100 | Completed |
| 10 | UG 7 - Perumbilavu - Perinthalmanna Road (39.37 km) | 8.11 | 7.58 | 100 | Completed |
| 11 | Safe Corridor Demonstration Project Kazhakuttam - Adoor | 146.67 | 122.51 | 100 | Completed |

**A2- Road Upgradation under EPC mode of construction**

Punalur - Ponkunnam Road (82 Km) (3 contract package) - Upgradation originally under PPP modified annuity mode converted to EPC mode and construction cost is ₹765.44 crore with Bank’s share being US $52 million (equivalent to ₹364.00 crore). In EPC mode of implementation, the balance amount to be met by the State during construction period of 24 months and DLP 5 years.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sl. No.** | **Package & length** | **Contract Amount (**₹**crore)** | **Status** |
| 1 | Punalur- Konni road (Package 8A) - Length 29.84 km | 237.94 | LoA to be issued |
| 2 | Konni-Placherry road (Package 8B)- Length 30.16 km | 279.00 | Physical progress 3% |
| 3 | Placherry-Ponkunnam road (Package 8C)- Length 22.17 km | Physical progress 11.52% | Tender evaluation stage |

**B –Road Safety Management**

This comprises of three sub components:

* Development of Safe Corridor Demonstration Project (SCDP) – 80 Km.

Kazhakuttom – Venjaramoodu – Adoor Section of main central road is selected and proposed to complete 80 km of Safe Corridor works to demonstrate the effectiveness of road safety best practises considering proven road safety interventions and international good practices. SCDP has been completed.

* Challenge Fund – US$ 4 Million - The Challenge Fund is intended to elicit innovative road safety proposals in a collaborative effort between local road user stakeholder groups and DRSCs, KRSA, PWD and KSTP. The Challenge Fund will target high risk locations with opportunities to address highly vulnerable road users. Five stretches are identified by different DRSCs for improving as model road corridor. 5.50 Km Pavangad- Korapuzha road work is in progress. DPR preparation of other four corridors (69 km) is under review.
* Road Safety Management Capacity Building - US$ 2 Million- KSTP has engaged an internationally experienced consultant M/s Vic Roads, Australia to assist in training on Road Safety and implementation activities. They have trained Engineers in the Road Safety Cell of PWD in Road Safety related tasks in DPR preparation of Safe Corridor Demonstration Project (SCDP).

**C- Institutional Strengthening**

Remodelling Kerala Highway Research Institute (KHRI), as an autonomous Centre of Excellence (CoE) in roads and road transport sector with functional areas like R&D, Quality Control, piloting new/innovative projects, Consultancy, project management and O&M practices etc.in Roads, Bridges and Building construction sector. To act as an advisory body/ think tank for transforming the road sector in Kerala by prioritising the thrust areas and providing thought leadership, strategic advice and problem-solving inputs, KHRI was upgraded as Centre of Excellence vide G.O(Ms) No.53/2020/PWD dated 11.6.2020. This CoE is proposed to act as an advisory body/ think tank for transforming the road sector in Kerala

The Consultancy services include two phases. Phase I: institutional Review and COE/s Conceptualization Phase and Phase II: Implementation Phase. For Phase II: Implementation Phase extension of time is granted up to 31 December 2020.

**D- Reconstruction/ restoration of flood damaged roads**

KSTP had undertaken reconstruction/restoration of 59 roads damaged due to floods and landslides during 2018.The World Bank provided finance assistance to reconstruct two worst affected roads in Idukki district. Accordingly, DPR were prepared for the Painavu-Thannikandom-Asokkavala road (21 km) and Chemmannar- Gap road (29.44 km) and the Adoor- Chenganoor road (23.804 km).These works are being planned out of the savings amount of KSTP Phase II.

An amount of ₹20000.00 lakh is provided as EAP for the scheme in the Budget 2021-22 for on-going works, Road Safety Management and Institutional Strengthening and Reconstruction/ restoration of flood damaged roads.

1. **Railway Safety Works**

**(Outlay:** ₹**1100.00 lakh)**

The scheme proposes construction of Railway over bridges/Railway under bridges with the objective of Road and Rail Safety. The amount provided is to meet the cost of completion of ongoing ROB works as well as cost of taking up new ROB works, covering land acquisition costs and investigation expenses during 2021-22.At present, construction of ROB at Kahangad is progressing and tender for Carithas ROB is in progress. Land acquisition for Mulanthuruthy ROB has been completed and land acquisition for Pavangad, Feroke and Karamana ROBs are in different stages. The scheme envisages meeting the construction cost of 6 ROBs and the cost for the investigation of new ROBs in the Budget 2021-22.

An amount of ₹1100.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Road Safety Works (R&B)**

**(Outlay:** ₹**950.00 lakh)**

An analysis of accident prone stretches in the State, revealed 116 major accident spots identified by NATPAC in the road network of the State. Major share are on National Highways and State Highways and rest on other roads.

The road safety curing works in these major accident spots have to be taken up with priority as 1st, 2nd, 3rd, 4th, and 5th order blackspots. The measures to be rolled out should be on short term and long term basis and shall be continuous with post implementation reviews. During 2020-21 Administrative sanction has been issued for 31 works for an amount of ₹ 2.78 crore. Out of 21 black spots, 11 black spots have been rectified. The Evaluation of accident rate has been done for 2 black spots and rectification of other black spots will be done after obtaining 6 months accident data.

The outlay provided is for the eradication of 116 No’s Black spots through road safety curing works in the above order based on measures/corrective steps identified by department through qualified institutional agencies like KHRI, NATPAC etc.

An amount of ₹950.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Manning of Unmanned Level Crossings**

**(Outlay:** ₹**300.00 lakh)**

This scheme is to meet the cost towards manning of unmanned level crossing. The payments are made to Railway authorities for implementing the works.

An amount of ₹300.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Upgradation of KHRI as Centre of Excellence (CoE)**

**(Outlay:** ₹**1500.00 lakh)**

The scheme envisages setting up KHRI as a Centre of Excellence (CoE) in Roads Sector within a time frame of 5 years. The CoE is envisaged to collaborate closely with experts from academia, industry and other road sector stakeholders towards creating an enabling environment to support the growth of research and innovation, development of standards and competence; and act as a knowledge-sharing platform leading to capacity building of the sector. The CoE shall function in the following identified thematic areas.

1. Quality assurance & contract management- Develop the training needs for PWD engineers and contractors (role wise), Quality Enhancement through NABL accreditation, Updating existing manuals and publishing manuals for promoting new technology.
2. Innovation in design/ construction practices-Develop a model DPR, Design of Deep foundations, Develop a Data Base of Experts for Resolving Site Specific issues, Use of locally available materials and Rapid Construction Technologies in PWD.
3. Road asset management-Developing RAMS in PWD through training and preparing road network data base across Kerala’s Highways and other roads, Health Monitoring of Bridges and Roads through sensors and Condition Assessment & Conservation of Structures.
4. Promoting indigenous research and development**-** Performance evaluation of pilot studies, identifying research areas for promoting applied research by engaging research institutes and government engineering colleges and Establishing CoE chairs/cell at various research institutes and signing MoUs with national and international organisation for realising the concept of CoE.
5. Road safety management

A total outlay of ₹1500.00 lakh is provided for the scheme for the following components.

1. Training and Capacity building (₹150.00 lakh) - An amount of ₹150.00 lakh is provided for conduct of professional management, technical and administrative training to enhance the skill and capacity of Department officers in planning, implementation, monitoring and operation & maintenance of projects/assets handled by Public Works Department. Training to Engineers/Contractors and workforce in rebuilding resilient road/transport/building infrastructure, green technologies and innovative construction practices needs focus. Expenses on conducting training/workshops/seminars in transport sector including Road Safety awareness programmes and expenses connected with training within and outside State.
2. R&D activities and Project implementation expenses (₹800.00 lakh) - Assistance to R&D studies in Transport sector covering expenses for developing and implementing new technologies, conducting investigation studies, adopting new practices, innovations on project mode, and investigation, planning, design and DPR costs. The operational expenses connected with KHRI and Quality Control Wing, Investigation units and Design wing covering AMC of plant and equipments, manpower charges, consumables, hire charges of vehicles etc. An amount of ₹250.00 lakh is earmarked for R&D activities and operational expenses during 2021-22.

An amount of ₹400.00 lakh is earmarked for piloting innovative technologies/ projects/ programmes in Roads, Buildings and Transport sector in association with major Research Institutions, Industry and Academia and ₹150.00 lakh is for hiring of vehicles in field level Sub Divisional Offices of Roads, Bridges, National Highways, Buildings and Architect’s Offices on exigencies in the absence of department vehicles as a stop gap arrangement for project governance and quality control.

1. Infrastructure strengthening of KHRI, Quality Control Wing (₹550.00 lakh) - An amount of ₹400.00 lakh isprovided for establishing of Mobile Testing Labs in Districts and Regional labs to facilitate field level testing and certification.

To upgrade the existing laboratory facilities in KHRI, Regional and District labs including construction/revamping of buildings of KHRI and Quality Control Wing, procurement of new plant and equipment’s and other basic infrastructure facilities, an amount of ₹150.00 lakh is provided with special focus on obtaining NABL accreditation of KHRI labs.

A total amount of ₹1500.00 lakh is provided for the 3 sub components of the scheme in the Budget 2021-22.

1. **E –Governance for the Department**

**(Outlay:** ₹**350.00 lakh)**

The scheme is intended for sustaining the IT initiatives started by KSTP viz, FMS, RMMS and maintenance of internet facilities at Sub Divisions, Divisions, Circles, Chief Engineer’s office and Chief Architect’s Office. The scheme envisages the following activities

* Implementation of total E- Governance in a phased manner in which work estimates, e-tendering, issue of work orders etc. are already rolled out and functional. The scaled up activities planned are;
* Strengthening of IT infrastructure facilities in PWD offices
* New E- Governance modules/activities and software development

1. PRICE software – Phase III
2. Bio-Metric Attendance System (BMAS)
3. Upgradation of Office Web Portal of PWD –“WINGS”
4. GIS based Roads & Bridge Asset Monitoring System
5. E-Office System
6. Project Management System

A Project monitoring module is being developed as part of the web site project which gives the details and current stage of the projects through the web site. A Project Management Module is also envisaged as part of PRICE software system. Integration of PRICE software with web portal is also planned which will give automatic project status information to the web site.

Implementation of RMMS on Core Road Network, digitalization and updation of road register of MDR, Asset mapping of the core roads and preparation of Annual Road Maintenance Operation Plan (ARMOP) for Core roads and Non-Core roads, Annual Maintenance of IT systems and e-Governance and IT training to staff is also included in the scheme.

All IT initiatives are to be planned and implemented in consultation with IT Department based on an IT Master Plan.

An amount of ₹350.00 lakh is provided for the scheme in the Budget 2021-22.

**New Scheme**

1. **Investigation and Planning Works (Bridges)**

**(Outlay:** ₹**50.00 lakh)**

The PWD bridges wing maintains2716 bridges, out of which 622 bridges are in State Highways, 1990 are in Major District Roads/Other District Roads and 104 bridges in Village Roads/ROBs etc. The provisions made in the State Plan every year are to meet expenses on capital works.

To meet the expenditure on conducting feasibility studies, investigation studies and preparing DPR for new schemes, projects/programmes under taken by the department/agencies, an amount of ₹50.00 lakh is provided for the scheme in the Budget 2021-22.

**II. National Highways (NH)**

1. **Roads of Economic Importance (Central Scheme) (NH)**

**(Outlay: ₹** **1.00 lakh)**

This scheme includes widening/strengthening and easing curves of roads connected to National Highways having economic importance.

An amount of ₹1.00 lakh is provided for the scheme in the Budget 2021-22 as token provision as matching contribution of the State.

1. **Central Road Fund Works- Roads (NH)**

***(*Outlay: ₹6000.00 lakh)**

Central Road Fund is earmarked for development/improvement of State roads under CRF act 2001. This scheme is intended for the development of state roads i.e., State Highways and Major District Roads. Presently, Improvements of 59 road works having length of 789 km for an amount of ₹855.75 croreare in various stages of execution.

An amount of ₹6000.00 lakh is provided for the scheme in the Budget 2021-22 with the option of reimbursement from GoI.

1. **NH Bye Passes - Kollam and Alappuzha (MIDP) (NH)**

**(Outlay:** ₹**1.00 lakh)**

The scheme is intended for construction of bye passes viz, Kollam and Alappuzha where land already acquired and the work is progressing. The project is being implemented on a cost sharing (50:50) basis between Kerala State and GoI.

The total length of Alappuzha Bye pass (₹348.43 Crore) is 6.8 KM, of which 3.2 KM is elevated highway, starting from Kommady Junction to Kalarkode. The work commenced on 16.03.2015 under EPC mode, and progressing with a contract sum of ₹274.34 crore. The remaining work is mainly related with the construction of railway over bridge for which sanction has been received from Railway Safety Commissioner. 98.6 per cent of the bye pass work is completed and expected to be commissioned in October, 2020.

The Kollam Bye pass starts from Kavanad and ends at Mevaram in 13 km stretch with aggregate cost of ₹352.05 crore which includes 3 major bridges, 7 km new road and widening of 4 km existing road. The work commenced on 27.05.2015 under EPC mode, completed and inaugurated on January 15th 2019.

A token provision of ₹1.00 lakh is provided in the Budget and the additional funds required for the implementation of the scheme will be re appropriated from the outlay provided under the head “Major Infrastructural Development Projects,” depending on actual requirement for 2021-22.

1. **Development of Urban Links of National Highways (NH)**

**(Outlay:** ₹**251.00 lakh)**

This scheme is intended to provide link roads to National Highways in the urban areas. It includes roads in major Corporations/Municipal and other developed urban areas, covering construction of flyovers, elevated highways, deviation roads etc.

Urban links of National Highways passing through the Municipalities and Corporations where the works are warranted are proposed to be developed during the year. The scheme also envisages the development of entire available RoW with provision for hard shoulders, facilities to accommodate utility services, pedestrian facilities like bus bays, footpath etc.

An amount of ₹251.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Traffic Safety Measures and Traffic bottleneck solutions in National Highway (NH)**

**(Outlay:** ₹**2500.00 lakh)**

To ensure Road Safety along the National Highways, traffic bottlenecks in the National Highways at major junctions, bus stops etc. are to be resolved by widening the carriage way, providing bus bays, off street parking provisions, pavements, subways, foot over bridges, kerb fencing, pedestrian underpasses, skywalks, utility corridors and junction improvement works.

An analysis of accident prone stretches in the State revealed 159 accident black spots identified through NATPAC in the road network of the State. Major share are on National Highways and State Highways and rest on other roads.

The road safety curing works in these blackspots have to be taken up in 1st, 2nd, 3rd, 4th, and 5th order blackspots. The measures to be rolled out should be on short term and long term basis and shall be continuous with post implementation reviews.

The State plan fund proposed in this head is to be utilized for curing identified accident blackspots in NH’s in consultation with NHAI where development works are taken up by GoI based on Scientific Studies by NATPAC, KHRI etc.

An amount of ₹2500.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Construction of Bypass in National Highways**

**(Outlay:** ₹**320.00 lakh)**

In order to avoid traffic bottlenecks in major cities where National Highway passes through, construction of bye pass roads will be expedited. The scheme is intended for construction of bypass roads in major Cities where NH passes through. The works needs to be taken up based on traffic mobility studies and considering development works taken up by NHAI in the stretches.

An amount of ₹320.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Construction of Bye Lane along NH (NH)**

**(Outlay:** ₹**420.00 lakh)**

The Scheme intends for construction of bye lane along the NH, by widening the carriage way in National Highways. It envisages constructing by lanes either by development of existing road or formation of new roads.

An amount of ₹420.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Elevated Highway in Wayanad - Bandipur stretch of NH 212 (NH)**

**(Outlay:** ₹**1.00 lakh)**

As per interim order in SLP(C) No.13838/2010 dated 10.1.2018 of the Hon’ble Supreme Court,the Ministry of Road Transport and Highways (MoRTH) has come up with recommendations to resolve the difficulties created to the people of Kerala due to the restriction on night traffic in NH 212 in the Wayanad-Bandipur stretch.

The recommendations involves construction of an elevated highway along Wayanad-Bandipur stretch costing ₹450- ₹500 crore, which needs to be taken up on cost sharing mode (50:50) between National Highway Authority of India (NHAI) and Government of Kerala.The State had informed the Hon’ble Supreme Court its concurrence to the proposal that 50 percent cost of the construction of elevated highway could be borne by the State.

A token provision of ₹1.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Investigation and Planning Works (NH)**

**(Outlay:** ₹**100.00 lakh)**

The National Highways wing of State PWD is manning the 1781.50 Km of National Highways. The provisions made in the State Plan every year are to meet expenses on capital works.

To meet the expenditure on conducting feasibility studies, investigation studies and preparing DPR for new schemes, projects/programmes under taken by the department/agencies, an amount of ₹100.00 lakh is provided for the scheme in the Budget 2021-22.

**7.3. ROAD TRANSPORT**

Road Transport sector mainly comprise of Kerala State Road Transport Corporation and Motor Vehicles Department. An amount of ₹14768.00 lakh is provided for the sector, of which ₹9991.00 lakh is for KSRTC, ₹3877.00 lakh is for Motor Vehicles Department and ₹900.00 lakh is for Infrastructure Development and Modernization (Sree Chitra Thirunal College of Engineering) in the Budget 2021-22.

**7.3.1 KERALA STATE ROAD TRANSPORT CORPORATION**

In Kerala, KSRTC is the major public transport utility service and the Department intends to make it people as well as eco-friendly through digital governance and scientific fleet management. The programmes listed below needs are aimed to achieve the above objectives.

**1. Development of Infrastructure and Modernization of Depots & Workshops**

**(Outlay:** ₹ **3000.00 lakh*)***

To improve the basic infrastructure facilities to passengers as well as workforce in the KSRTC bus stations/terminals/depots, it is proposed to renovate bus station yards, bus station buildings and to upgrade existing garages to facilitate maintenance of new generation buses. As part of the modernization, the following works are proposed during 2021-22 which are to be taken up on priority basis.

1. **Modernisation of Depots, Garages and workshops in KSRTC**

* Yard development works - (Thiruvananthapuram Central, Kilimanoor, Thiruvananthapuram City, Peroorkkada, North Paravur, Mallappally, Mavelikkara, Kumily, Perumbavoor, Ponnani, Harippad, Kannur, Venjaramoodu, Kaniyapuram, Pala, Cherthala)
* Upgradation of 6 District workshops viz; Chadayamangalam, Edappal, Thiruvalla, Chalakkudi, Kannur, Sulthan Batheri
* Sprucing up 30 major depots to smart stations
* Providing better passenger amenities including rest room, locker and dormitory facilities.
* Construction of Mobility Hub at Puthukkad

1. **Float units-** To enhance vehicle utility to 95 per cent ie. National average and to strengthen the maintenance activities floats units viz. Engine, Steering Box, Gear Box, Radiator Assy, Cylinder head, Water Pump, Clutch pressure Air compressor, PP Shaft, Self-starter, FIP, Crown and pini and I beam front are to be procured.

An amount of ₹3000.00 lakh is provided for the above activities under the scheme in the Budget 2021-22 and the works are to be taken up based on detailed project report and cost estimates.

**2. Total Computerization and E-Governance in KSRTC**

**(Outlay:** ₹**1891.00 lakh)**

In order to achieve more operational efficiency, e-governance in KSRTC needs much improvement. The amount provided for the scheme during 2021-22 is for updation of hardware and software based on an integrated IT Master Plan to bring all governance function under e-governance platform. The amount provided is for the following components

* Total computerisation and implementation of GPRS system
* Implementation of Inventory, Asset and Fleet management modules
* Implementation of GSPARK
* Project Management Module

An amount of ₹1891.00 lakh is provided for the scheme in the Budget 2021-22.

**3. Providing Training to Drivers, Technical Personnel and Officers**

**(Outlay:** ₹**100.00 lakh)**

The scheme envisages training and capacity building within the Organization to improve employee’s skills and knowledge level to perform better; thereby enhance the productivity in KSRTC. This will ensure better fuel efficiency, optimum utilization of spares, better maintenance of vehicles and improved office administration. The new generation vehicles recently introduced in KSRTC demands focused training to staff for maintaining these vehicles covering Safe and Fuel Efficient Driving training schedules. Staff Training Centre is conducting various management training programmes, both in-house and external for all its officers. A training calendar with training modules covering all areas involving all levels of officers needs to be developed and implemented with monitorable targets/deliverables. Feasibility studies in Road Transport sector aligning to KSRTC’s functional areas also envisaged under the scheme.

An amount of ₹100.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Modernization and Quality Improvement of Fleet**

**(Outlay:** ₹**5000.00 lakh)**

As part of eco-friendly initiatives and reduction in fuel costs by 25 to 40%; KSRTCenvisages massive conversion of existing HSD buses to LNG/CNG, so thatmonthly operational loss can be reduced**.** An amount of ₹5000.00 lakh is provided for the scheme in the Budget 2021-22.

1. **Academic Infrastructure Development (Sree Chitra Thirunal College of Engineering)**

**(Outlay:** ₹ **900.00 lakh)**

Sree Chitra Thirunal College of Engineering (SCTCE), Thiruvananthapuram started functioning as a full-fledged engineering college from 1995 onwards. The college is one among the top few colleges which offers high quality engineering education in all the three levels viz. Graduate level, Post Graduate level and Doctoral level education. The present admission strength is nearly 2000 students. The placement also keeping a good consistency and is one among the top three or four colleges in the State. The entire admission is purely on merit basis only and the fee structure is a subsidized one decided by the State Government. The development of the college is now in slow pace because of financial constraints in taking up major infrastructure projects like Ladies Hostel, Research Block and Auditorium & Library expansions.

To convert Sree Chitra Thirunal College of Engineering (SCTCE), Thiruvananthapuram into a leading research centre, it is proposed to provide financial support for the construction of Ladies Hostel, R&D block, two floors in Library block, development of Nanoelectronics and materials laboratory and innovation centre.

An amount of ₹900.00 lakh is provided in the Budget 2021-22 and the works are to be taken up based on detailed project report.

**7.3.2 MOTOR VEHICLES DEPARTMENT**

The Motor Vehicles Department is regulated by the Government of Kerala in terms of policy formulation and its implementation.  The Department is administered by the Transport Commissioner who is the Head of Department. The main functions of the Department are Enforcement of the Motor Vehicles Act and Rules, Registration of vehicles, Collection of taxes and fees, rendering services like grant of driving licenses, issue of certificate of fitness, grant of permits to vehicles, etc. Apart from this more importance is also given to Road Safety measures and to the Control of Automobile Pollution. Motor Vehicles Department is one of the significant revenue earning departments of the Government. Government have taken several measures to make the functioning of Regional Transport Offices more people friendly and efficient. The proposed schemes of the department during 2021-22 are as follows.

**1. Road Transport Safety Measures**

**(Outlay:** ₹**800.00 lakh)**

An amount of ₹800.00 lakh is provided for the scheme in the Budget 2021-22 for the following activities.

* Radar Surveillance Systems - ₹600.00 lakh - as part of road safety activities the department has already covered Cherthala-Mannuthy, Mannuthy-Manjeswaram stretch and five districts viz. Kollam, Ernakulam, Kottayam Kannur and Thiruvananthapuram. To improve the enforcement activities, more number of violation detection cameras needs to be installed and have appointed C-DAC as a consultant for the project. The amount provided is for installing 30 radars/cameras and allied control room modifications in line with accident black spots identified by NATPAC/PWD. The Motor Vehicles Department may consider options of implementing the project on annuity mode with built in AMC provisions.
* GPS based vehicle tracking system - ₹100.00 lakh –The installation of vehicle location tracking device and emergency button for new public service vehicle become mandated under rule 125H of the Central Motor Vehicle Rules, 1989 registered after 1st January 2019. The aim of the project is to install location tracking devices in public transport and goods vehicles. The implementation of the project will ensure real time monitoring of public vehicles thereby ensuring women safety. Public service vehicles are required to have panic buttons in addition to tracking devices for enhanced women safety. In the first phase, implementations in all educational institution buses are progressing. It is planned to implement in all PSVs, Good Vehicles. The final phase will be completed only after implementation in PSVs. Government Order is awaited for fitting the device in old vehicles. The amount provided is for upgradation of soft and hard IT infrastructure for the real time monitoring/ governance of the system.
* Third Eye Enforcement Project (TEP) - ₹50.00 lakh - To find out and prosecute the traffic violators with public assistance. The public can assist the enforcement team of the department by capturing and sending the traffic violations via video clips, images etc. on real time basis through an exclusive public web portal covering road safety suggestions/feedbacks. A unique Whatsapp number has been allotted for public to lodge complaints. ₹50.00 lakh provided for the activities proposed under Third Eye Enforcement Project (TEP) like completing software development of the phase-I activities, installation and testing of auxiliary equipments, user acceptance and roll out.
* Developing Road Safety Data Control Centre - ₹50.00 lakh - Web based platform for road asset management and accident data base system which is accessible to stakeholders/concerned departments/organizations for updating their assigned and statutory works and finally presenting the output in GIS mapping platform. The MIS shall align with the activities now being carried out under Kerala Geo portal by IT Department. ₹50.00 lakh provided for the preparation of detailed report, roll out, modifications and version updation of the project.

**2. Implementation of E-Governance**

**(Outlay:** ₹**346.00 lakh)**

The objective of the scheme is to develop a full-fledged Professional team in MVD aligning to new initiatives of GoI and GoK in Transport sector. Training and capacity building of the officials needs to be charted out after doing a training need analysis, which can be implemented through IHRD, IDTR, IMG, CRRI, NATPAC etc. during the period in order to provide the better opportunity to familiarize with best practices in the enforcement of Motor Vehicle Laws and Road Safety activities.

**Wireless Communication Network**

The Motor Vehicles Department faced much difficulty in communication due to lack of wireless devices during recent flood and landslides. The department envisages setting up wireless communication and allied network infrastructure for the use of the department officials. A Technical Committee has been constituted to implement the project with a nodal officer and project is prepared with pilot district of implementation as Ernakulam. The tender documents are being evaluated by the technical committee and are expect to be rolled out this year.

To implement first phase of the project, an amount of ₹346.00 lakh is provided in the Budget 2021-22.

**3. Vehicle cum Driver Testing Stations**

**(Outlay:** ₹**500.00 lakh)**

Model Vehicle and Driver Testing Stations brings about uniformity in standards for testing and certification ensuring transparency. The scheme proposes to set up new Vehicle cum Driver Testing Stations which will ensure the mechanical fitness of vehicles; reduce subjectivity in decisions, transparency in driver testing /licensing, better image to the department and reduction in accidents. Implementation of the project is essential to comply with the proposed amendments to Central Motor Vehicles Act and the recommendations of the Supreme Court Committee on road Safety. The provision can also be utilized for setting up Computerised Vehicle cum Driver Testing stations on PPP mode, upgrading existing testing station and an amount of ₹250.00 lakh is earmarked for setting up International Driving Testing Tracks and Driver Coaching Centre.

A total amount of ₹500.00 lakh is provided for the scheme in the Budget 2021-22.

**4. Modernization of MV Check posts**

**(Outlay:** ₹**800.00 lakh)**

The objective of the scheme is to prevent the loss of revenue at the State borders. Overloading of goods vehicles is causing a lot of accidents and damage to road infrastructure. The outlay is for modernization and infrastructure development works of MV check posts covering land costs in setting up modern check posts in integration with other departments. The Department has entrusted SeMT as the technical consultant for the preparation of User Requirement Specifications (URS), Detailed Project Reports, monitoring the implementation of e-Check post management system and container module type check posts. A technical committee with members from SCRB, NIC, KSITM, SeMT and NATPAC has been appointed for the evaluation and finalisation of project proposal.

An amount of ₹800.00 lakh is provided for infrastructure development and modernization of the check posts of Motor Vehicles Department in the Budget 2021-22.

**5. Setting up of Model Inspection and Certification Centre**

**(Outlay:** ₹**1.00 lakh)**

An amount of ₹1.00 lakh is provided as a State share for the setting up of Model Inspection and Certification Centre sanctioned by Government of India. The project can be taken up on PPP mode also, in which matching funds of State can be met from this head.

An amount of ₹1.00 lakh is provided for the scheme in the Budget 2021-22.

**6. Motor Vehicles Department - Establishment of new sub offices**

**(Outlay:** ₹ **230.00 lakh)**

The scheme envisages completion of works initiated for establishing new sub offices sanctioned in previous year. Department has accorded sanction for 7 new sub regional offices at Kondotty (Malappuram), Ramanattukara (Feroke), Payyanur (Kannur), Chadayamangalam (Kollam), Pathanapuram (Kollam), Konni (Pathanamthitta) and Varkala (Thiruvananthaputam) where no MVD offices are functioning at present. Buildings have been identified at 7 locations. The Sub offices at Varkala (Thiruvananthapuram) and Konni (Pathanamthitta) have been commissioned. Interior furnishing works of sub offices at Kondotty, Ramanattukara (Feroke), Payyannur, Chadayamangalam and Pathanapuram are underway. The amount provisioned is for meeting balance infrastructure and allied costs in completing the ongoing works at 7 locations.

An amount of ₹230.00 lakh is provided for the scheme in the Budget 2021-22.

**7. E- Mobility Promotion Fund**

**(Outlay:** ₹ **1200.00 lakh)**

The vehicular transport of the State predominantly depends on fossil fuels. The extensive use of fossil fuels leads to environmental pollution and health hazards, which necessitates the exploration of alternative energy. The transition to electric vehicles is a natural choice for the State in line with its development ethos. Govt. of Kerala, which is a forefront runner in many reforms and innovations, initiated early steps in the development of forming a road map to an Electric Vehicle (EV) policy for the State. Electric Vehicles (EV) or e-mobility is the next step forward. Government had approved the draft EV policy (vide G.O (MS) No: 58/2018/Trans dated 29/9/2018).

The scheme intends to push electric mobility in commercial use by providing attractive incentives, subsidies for replacement of fossil fuel vehicles, procurement of electric vehicles, establishing charging infrastructure, retro fitment facilitating manufacturing ecosystem for e-mobility, promotional programmes like shared electric and connected mobility and other innovative programmes.

In the initial phase, it is planned to roll out 10000 e- autos in the identified places of major districts with an incentive of ₹25000/- to ₹30000/- per vehicle focusing identified e-mobility zones in line with SLB’s/Credit schemes of the State. The administrative department shall ensure that 50% of the beneficiaries are women.

Transport department envisages piloting hydrogen fuel vehicles in the State in 2021-22 with a provision of ₹150.00 lakh under this scheme. An amount of ₹1200.00 lakh is provided for the scheme in the Budget 2021-22 for fulfilling the targets and advancing activities related for popularising/creating awareness about the electric vehicles among the public.

**7.4 INLAND WATER TRANSPORT DEPARTMENT**

State Water Transport Department, Kerala Shipping & Inland Navigation Corporation Ltd and Coastal Shipping & Inland Navigation Department are the agencies involved in the transportation and development activities of the back water sector of the State. The outlay provided in the Budget 2021-22 for Inland Water Transport are as below.

|  |  |  |
| --- | --- | --- |
| **Sl. No** | **Department** | **Outlay**  **(₹lakh)** |
| 1 | State Water Transport Department | 2761.00 |
| 2 | Kerala Shipping and Inland Navigation Corporation Ltd | 867.00 |
| 3 | Coastal Shipping & Inland Navigation Department | 10982.00 |
|  | **Total** | **14610.00** |

**7.4.1. State Water Transport Department**

An amount of ₹2761.00 lakh is earmarked for State Water Transport Department in the Budget 2021-22 for following schemes.

**1**. **Land, Building and Terminal Facilities**

**(Outlay:** ₹**180.00 lakh)**

The objective of the scheme is to enhance the administration, governance and operational capacity of SWTD. It envisages the construction of new building and enhancement of Terminal facilities under various categories. The amount provided is for the following projects in addition to spill over payments during the year 2020-21.

* Renovation/ rectification of 2 Station Offices/ department boat jetties
* Ladies waiting area in Alappuzha and Ernakulam
* Purchase of safety equipments for boat and passengers

An amount of ₹180.00 lakh is provided for the scheme in the Budget 2021-22.

**2. Acquisition of fleet & Augmentation of Ferry Services**

**(Outlay:** ₹ **2200.00 lakh)**

The scheme envisages procurement of new vessels to match updated safety standards and fuel efficiency in water transport. The provision is for procuring two Solar boat, one electric Ro-Ro, five air filled dinghy boat and five new 30 Pax high-speed boat and one barge for freight transport as a first venture, the amount also includes provision for conducting feasibility study of ferry service in Beypore - Chaliyam route, electric boat services in Alappuzha region and to meet spill over payments.

An amount of ₹2200.00 lakh is provided for the scheme in the Budget 2021-22.

**3. Workshop Facilities**

**(Outlay:** ₹**165.00 lakh)**

The scheme is for the modification/renovation of three existing dock yards and slipways at Thevara, Ayiti and Alappuzha, improvement of Workshop facilities, and to meet the spill over payments.

An amount of ₹165.00 lakh is provided for the scheme in the Budget 2021-22.

**4. Purchase of new Engine and Reconstruction of Old Boats**

**(Outlay:** ₹**216.00 lakh)**

The scheme intends purchase of Timber, Marine Engines, Steering Gear Boxes machinery, technical components and tools and plants required for converting/modifying department wooden, steel and FRP vessels to CNG/LNG, electrical fuel mode. During the 13th Plan, it is proposed to convert all the existing diesel fuel powered vessels into CNG/LNG/Electrical mode in a phased manner. In order to execute major renovation works of 10 wooden boats per year, 30 M3 of timber is proposed to be procured. The provision also includes purchase of 3 No’s engines, 6 No’s gear boxes and spares, 3 No’s Hydraulic power steering for the Department vessels, 5 welding machines, 2 shearing machines, 3 painting machines and for spill over payments.

An amount of ₹216.00 lakh is provided for the scheme in the Budget 2021-22.

**7.4.2** **KSINC-(Kerala Shipping and Inland Navigation Corporation)**

**Kerala Shipping and Inland Navigation Corporation Limited (KSINC)**

Kerala Shipping and Inland Navigation Corporation Limited (KSINC) is one the pioneers in Inland Navigation, Coastal shipping and water based tourism and leisure activities in Kerala/ KSINC operates mechanized cargo transport in the inland waterways. An amount of ₹867.00 lakh is provided in the budget 2021-22 for the activities of Kerala Shipping and Inland Navigation Corporation Limited.

The on-going projects ie, construction of 300 MT POL Barge and 300 MT Acid Carrier Barge will be completed in 2020-21. Hence no amount is earmarked for budget 2021-22.

**1. Construction of Bulk Cargo Barges**

(**Outlay:** ₹**450.00 lakh**)

This scheme is intended to complete the construction of barges for bulk carriage through inland water ways of Kerala. The construction of two barges for transportation of furnace oil and Hydrochloric acid for Kerala Minerals and Metals Limited (KMML) in Chavara from Kochi were included in the budget for the year 2017-18, and works are progressing. Now there is considerable increase in the requirement of bulk materials such as rock phosphate, sulphur etc. Therefore, the KSINC is proposes to complete bulk barge constructionat a cost of ₹450.00 lakh. Already the government granted administrative sanction for an amount of ₹450.00 lakh, but the amount is not released so far. In the Budget 2021-22 an amount of ₹450.00 lakh is provided as state share for completion of the project.

**2. Construction of Ferry Terminal Jetty**

**(Outlay:** ₹**272.00 lakh)**

KSINC commissioned a 200 Pax Cruise Vessel named NEFERTITI. The vessel required a depth of about 3 metres for safe berthing and operations and a location near Fine Arts Hall, Kochi was identified. The Irrigation Department have given permission to use the area for construction of Ferry Terminal on lease. The approval from Cochin Port Trust to access the Shipping Channels also obtained. The Terminal will enable construction will enable safe berthing and operation of cruise vessel NEFERTITI and 1200 MT POL barge As per vide G.O. (Ms.)No. 7/2019/ CSIND dated, 24.09.2019 administrative sanction was accorded for the construction of the Ferry Terminal at a cost of ₹740.00 lakh. An amount of ₹468.00 lakh has been provided during the budget 2020-21. An amount of ₹272.00 lakh is provided as balance amount in the budget 2021-22 for the construction of a Jetty/Berth/Platform of the Terminal Building.

**3. Modernization of Slipway**

**(Outlay:** ₹**145.00 lakh)**

KSINC now operates a Slipway at Thoppumpady, which is under long term lease from the Cochin Port Trust. To upgrade the existing facilities by renovating the titling bridge mechanism in the Slipway, an amount of ₹145.00 lakh is provided for the financial year 2021-22.

**7.4.3 Coastal Shipping and Inland Navigation Department (CSIND)**

Inland Water Transport is an efficient and effective medium of transport, considering its energy efficiency, environment friendliness and safety. Kerala is giving top priority to the development of the West Coast canal connecting the National Waterway-III. Waterways in the State include the main arterial Waterway (West Coast Canal) and feeder canals. The total length of the potential Inland Waterways in the state is 1687 km. The West Coast Canal (WCC) connects the Neeleswaram in the North to Kovalam in the South and is about 590 km excluding the 26 km uncut portions between Mahe and Valapattanam & rest of the reaches are feeder canals. The Inland Waterways Authority of India (IWAI) holds the reach from Kollam to Kozhikode and the remaining stretches under State waterways. A road map in three phases is planned for the development of waterway system in the State.

Phase I: - WCC will be developed with possible width in the available land to be completed

in the year 2020.

Phase II: - The rehabilitation of encroachers, land acquisition and widening of canal will be

Completed during 2020-22.

Phase III: - The extension of WCC up to Bakel in Kasaragod district, development of feeder canals and amenities for cargo transportation and tourism facilities will be achieved during 2022-25 period. Navigation aids and signals will be positioned for Smart waterways to enable permanent round the clock navigation.

**1. Inland Canal Scheme (State Sector)**

**(Outlay:** ₹**7281.00 lakh)**

The development of Inland Waterways and allied infrastructures in Kerala are entrusted with CSIN Department using State Plan Fund and NABARD assistance (except designated National Water Ways) High Value works with KIIFB assistance are entrusted with the SPV named as KWIL. The development activities basically involves the development of State Waterway portions of West Coast Canal from Kovalam to Kollam and Kozhikkode to Neeleswaram. In addition to that, reconstruction of structures like bridges, navigation locks and foot bridges, construction of boat jetties and terminals, development of feeder and link canals, providing navigation aids etc. and their maintenance are undertaken by CSIND and these works are implemented through the Inland navigation wing of Irrigation Departrment, The development program is organised in a phased manner and during the first phase ending in 2020, canals are to be made navigable with existing width. Development activities are arranged to achieve the goal set forth in first phase.

The objectives of the scheme are

1. To facilitate hindrance free movement of larger vessels through replacement of cross structures like road bridges, foot bridges, railway bridges and canal crossings in various stretches with sufficient horizontal and vertical clearance.

2. To facilitate the transit of passengers and goods through the construction of terminals and jetties where development works are completed and up gradation/modernisation of functional jetties/terminals

3. To attract more and goods traffic through developing feeder canals connecting West Coast Canal exploring commercial and tourist potentials.

The provision earmarked in the budget 2021-22 is for the following activities.

**a. Making spill over payment of development/renovation works undertaken in previous**

**years** **and for new capital maintenance/development works in**

(i). Kovalam–Kollam Stretch (Ch. 0.00 km to 74.14 km)

(ii). Kozhikkode-Vadakara reach (Ch: 402.18 km to 450.08 km)

(iii) Vadakara-Mahe reach (Ch. 450.08 km to 467.69 km) (uncut portion),

The activities include canal strengthening and deepening works

**b**. To take up new development works such as Strengthening (850m.) in Parambil area of third portion of Vadakara – Mahi reach.

**c. Construction of Cross-structures**

Replacement/Reconstruction of cross structures like road bridges, foot bridges, railway bridges and canal crossings with sufficient horizontal and vertical clearances in 240 identified locations. The provision has been earmarked for the financial year 2021-22 is for the following activities

* Nambiarkal lock in Kasaragod district
* Reconstruction of Koottakadavu foot bridge having a span of 45m in Kasaragod district
* Other structures in identified stretches

**d. Construction and modernisation of Jetties and Cargo Terminals**

The construction of Terminals and Jetties are envisaged at locations where development works are completed as well as up gradation/ modernization of functional jetties/terminals, on a priority basis. The proposals are to be identified in potential locations on request from SWTD, KSINC and Tourism Department. It is envisaged to construct 3 passenger jetties for tourism purpose in Arivalam, Vadakara and Sivagiri in Thiruvanathapuram and to renovate the existing jetties on priority basis in 2021-22.

**e. Providing Navigation aids in canals:** Navigational aids needs to be installed in the developed portion of WCC. During 2021-22 it is envisaged to provide navigational aids in Kotti- Valapattanom portion (lagoon) of Kannur-Kottappuram reach and other ready to operate Streches.

**f. Additional Land acquisition in various reaches of West Coast Canal:** Land acquisition is required in various stretches to ensure standard width in Inland water ways.

**g**. **Development of Feeder canals/Link canals:**  For making spill over payment of works undertaken in previous year in various places of the feeder canals and for capital maintenance works in canal.

An amount of ₹**7281.00 lakh** is proposed for the year 2021-22 for implementing the above components.

1. **Inland Shipping Promotion Fund**

**(Outlay: ₹1.00 lakh)**

The scheme intends to provide incentives to attract shippers using inland waterways for the transportation of bulk cargo. Increased use of waterways for cargo movement will help to shift some pressure from roads to water. The components of the scheme are 1. Capital subsidy/incentives to build inland vessels/ river vessels, 2. Constitution of corpus fund for new inland shipping promotion initiatives, 3 Chartering of inland vessels, high speed vessels/inspection boats and activities as per KIV rules 4. Other identified activities necessary for the promotion of inland shipping in the state. An amount of ₹1.00 lakh is proposed for the year 2021-22 for this scheme.

1. **Investigation of IWT Schemes**

**(Outlay: ₹ 200.00 lakh)**

The major objective of the scheme is to develop a comprehensive development master plan for State Waterways taking into consideration of the activities of IWAI, SWTD, KSINC, Tourism and other potential stakeholders. For creating an integrated business model for the inland water transport sector hydrographic surveys and other investigations are needed. Development of feeder/link canals connecting West coast canal and important destinations like commercial centres, ports and tourism spots are to be identified. Activities like investigation, feasibility study, planning and design, preparation of DPR making waterways an effective and efficient transport system are covered under an amount of ₹ 200.00 lakh is proposed for the financial year 2021-22 for undertaking the activities.

**4. Construction of cross structures in National Waterway (NABARD Assistance)**

**(Outlay:** ₹**3500.00 lakh)**

An amount of ₹3500.00 lakh is earmarked during the budget 2021-22 for the following projects under NABARD assistance

a. Theendappadi Road Bridge

b .Vettom Foot Bridge

c.Vettom-Chitteppurathe Foot Bridge

d. Salafi Nagar Foot Bridge

e. Manjalaampadi Foot Bridge

f..Puthiyakadappuram-Kaaladu Foot Bridge

g. Puthiyakadappuram Foot Bridge

h. Anjudi Foot Bridge

**7.5 OTHER TRANSPORT SERVICES**

The following projects are identified under Other Transport Services sector for implementation during 2021-22.

**1. Land acquisition for Thiruvananthapuram International Airport**

**(Outlay:** ₹**1.00 lakh)**

The scheme is for land acquisition, rehabilitation activities and Govt. equity in the newly formed company TIAL connected with long term development. State Govt has set up an SPV, Thiruvananthapuram International Airport Ltd (TIAL) registered as a Private limited company vide GO (Ms) No 72/2018/Trans dated 15.12.2018. MD, KSIDC will take necessary action to register the SPV as a company.

Activities proposed are the following:

* Acquisition of 18 acres of land in Pettah village (direct purchase) for the long term development of Trivandrum Airport
* Provision for equity in TIAL

An amount of ₹1.00 lakh is provided as token provision during 2021-22.

**2. Land acquisition for Kozhikode Airport**

**(Outlay:** ₹**1.00 lakh)**

The Scheme is for the land acquisition towards runway extension, terminal development and rehabilitation activities for Calicut Airport. As per G.O.(MS) No.66/2016/Trans dated 24.10.2016 sanction was accorded for acquisition of 137 acres for Terminal expansion, 248.3 acres for Runway expansion and 100 acres for Rehabilitation (Total 485.3 acres**)** and District Collector was authorized for the direct/negotiated purchase.

A token amount of ₹1.00 lakh is provided for land acquisition during 2021-22.

**3. Development of Infrastructure facilities - Kannur Airport (MIDP)**

**(Outlay:** ₹**1.00 lakh)**

The scheme is for the development of Infrastructure facilities to Kannur Airport. The amount provided is for mitigation of negative cash flows during the initial period of operation, spill over commitments in the original projects and land acquisition cost of runway extension to 4000 metre.

A token provision of ₹1.00 lakh is provided in the Budget and the additional funds required for the implementation of the scheme will be re appropriated from the outlay provided under the head “Major Infrastructural Development Projects”, (MIDP) depending on actual requirement for 2021-22.

**4. Metro Rail System in Kochi (MIDP scheme)**

**(Outlay:** ₹**1.00 lakh)**

Kochi Metro Rail Project (KMRP) is the flagship project of the Government of Kerala designed to address the transportation woes of Kochi City. The Project is being implemented by the Kochi Metro Rail Ltd (KMRL), a Special Purpose Vehicle jointly owned by the Government of Kerala and Government of India. The Union Government gave sanction for the project in July 2012 at a total cost of ₹5181.79 crore and Delhi Metro Rail Corporation Ltd (DMRC) is executing the project as per the tripartite agreement signed between Govt. of India, Govt. of Kerala and KMRL. The project details are the following.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Phase** | **Reach** | **Connected places** | **Length (Km)** | **Project Cost (**₹**crore)** | **Present Status** |
| Phase I | Aluva to Petta (22 stations) | | 25.612 | 5687.79 (revised cost) | Commissioned on 19.06.2017. |
| Reach - I | Aluva to Palarivattom (11 stations) | 13.4 |
| Reach – IIA | Palarivattom to Maharajas College (5 stations) | 4.96 | commissioned on 3.10.2017 |
| Reach-II B | Maharajas to Thykoodam(6 stations) | 5.65 | Inaugurated on 03.09.2019 and commercial operation was started on 04.09.2019 |
| Reach II C | Thykoodam to Petta (1 Station) | 1.29 | Completed and ready for operation. |
| Phase I (A) |  | Petta to S.N. Junction (Extension) | 1.88 | 710.93 (revised cost) | Expected to commission by the end of 2021-22. |
| Phase I (B) |  | SN Junction to Thripunithura | 1.2 | 355.70 | Expected to commission by the end of 2021-22. |
| Phase II |  | JLN Stadium to Kakkanad IT City | 11.0 | 1957.05 | Expected to complete the total work by December 2021. |

The scheme’s provisions are to meet the state contribution on the development of runway, land acquisition, Equity (KMRL) and other preparatory works. The following activities are proposed during 2021-22:

* + Petta -SN Junction - Civil works (Phase I A)
  + SN Junction – Thripunithura –Civil Works (Phase I B)
  + Phase II - JLN Stadium - Kakkanad IT City
  + Operational Cash Loss
  + Repayment of AFD loan and debt servicing of KSCB Ltd. and HUDCO for Phase I
  + Interest payment to Canara Bank and Union Bank for Phase I

KMRL has availed the credit facility from Andhra Bank for an amount ₹485.78 crore, Union Bank and Canara Bank has also approved the credit facility for an amount of ₹730.00 crore, respectively, for the Phase IA&IB project i.e from Petta to Thripunithura Terminal, with guarantee from GoK.

A token provision of ₹1.00 lakh is provided in the Budget and the additional funds required for the project will be re appropriated from the outlay provided under the head “Major Infrastructural Development Projects,” (MIDP) depending on actual requirement for 2021-22.

**5. Integrated Water Transport – Kochi (MIDP) (EAP)**

**(Outlay:** ₹**1.00 lakh)**

**(EAP:** ₹**10000.00 lakh)**

Kochi Metro Rail Corporation Limited (KMRL) is implementing the Kochi Water Metro Project estimated at a cost of ₹682.01 crore with the financial assistance of German Financial Institution, KfW and matching State share of ₹102.30 crore excluding land acquisition costs. The project envisages the development of 76 km waterways in 16 routes covering 38 jetties in Kochi through revitalization of the existing transport system in Kochi and integrates the same with the Kochi Metro and bus based public transport system, including land costs.

The project scope includes development of water ways, access roads to the terminals, boat yards, emergency response vessels, operation control centre as well as necessary communication infrastructure for the water metro project. The project is divided into phase I with 19 terminals and balance in Phase II. The commissioning of the 1st phase is scheduled on January 2021.

A token provision of ₹1.00 lakh is provided in the Budget and the additional funds required for the implementation of the scheme will be re appropriated from the outlay provided under the head “Major Infrastructural Development Projects,” (MIDP) depending on actual requirement for 2021-22. An amount of ₹10000.00 lakh is provided as EAP component for Integrated Water Transport – Kochi.

**6. Light Metro Systems in Thiruvananthapuram and Kozhikode (Investments in Kerala Rapid Transit Corporation Limited)**

**(Outlay:** ₹**50.00 lakh)**

Government accorded Administrative Sanction for Light Metro systems in Thiruvananthapuram and Kozhikode vide G.O. (MS) No.74/2015/PWD dated 11.09.2015 in which the total project cost (Trivandrum & Kozhikode) is ₹6728 crore, GoK’s share is ₹1619 crore, GoI’s share is ₹1278 crore and debt is ₹3831 crore. GoI published a new Metro Rail Policy in August 2017, with revised guidelines for metro projects in the country that seeks assistance from GoI. In this context, the project needs revision and then taken up with Government of India for approval and assistance. The project cost has been revised to ₹2773 crore for Kozhikode and ₹4673 crore for Thiruvananthapuram Light Metro Systems respectively. The works on above lines are in progress.

An amount of ₹50.00 lakh is provided in the Budget 2021-22 for meeting project expenses like DPR costs, PMC charges and cost of preparatory works.

**7. Establishment of Heliports**

**(Outlay :**₹**50.00 lakh)**

Development of Helipad/Heliports for emergency evacuation and Tourism activities is the need of the day. An amount of ₹50.00 lakh is provided for feasibility studies in developing Helipads/Heliports in identified /potential destinations across the State during 2021-22.

**8. Kerala Rail Development Corporation (KRDCL**) **(MIDP) (Joint Venture between GoI and (GoK)**

**(Outlay:** ₹**1.00 lakh)**

The objective of the scheme is to take up major railway development projects in Kerala on a cost sharing mode between GoI& GoK through a Joint Venture company called “Kerala Rail Development Corporation (KRDCL). The JV is registered with an equity share of 51% and 49% between Government of Kerala and GoI and proposes to take up the following upcoming Railway Projects in Kerala through project specific SPVs.

Projects in pipeline

* Construction of 532 Km “Silver Line” Semi High Speed Rail line from Thiruvananthapuram to Kasargod - ₹500.00 crore as equity. Appropriate project cost is ₹56443.00 crore.
* Construction of new BG line between Thalassery and Mysore via Mananthavady - land acquisition - ₹10.00 crore.
* Construction of new BG line from Nilambur to Nanjangud - ₹10.00 crore.
* Construction of ROB/RUB for road and rail safety.

A token provision of ₹1.00 lakh is provided in the Budget and the additional funds required for the implementation of the scheme will be re appropriated from the outlay provided under the head “Major Infrastructural Development Projects,”(MIDP) depending on actual requirement for 2021-22.

**9. Kerala Metropolitan Transport Authority (KMTA)**

**(Outlay:**₹**250.00 lakh)**

In the Union government’s Metro Rail policy, the formation of a Unified Metropolitan Transport Authority (UMTA) is a pre-requisite for Metro Rail projects. Since Kochi Metro Rail’s second phase expansion up to Kakkanad is under Centre’s consideration, it become mandatory to the Kerala state to form a Metropolitan Transport Authority. The Kerala State Legislative Assembly has passed the Kerala Metropolitan Transport Authority (KMTA) Act 2018 in November, 2019. The authority will be an umbrella body responsible for the development, operation, maintenance, monitoring and supervision of urban transport in urban mobility areas.

As per the KMTA Act, Metropolitan Transport Authorities will be formed in three major cities - Thiruvananthapuram, Kochi and Kozhikode with high population and vehicle density and will be declared urban mobility areas. The activities of KMTA’ are Integration of Transport, fare revision, renovation of the bus transport system, location for new parking lots and implements the single ticketing system, where people can use the same ticket for various modes of travel through the Intelligent Transport System.

The scheme envisages setting up administrative and governance infrastructure for the Authority. An amount of ₹250.00 lakh is provided for the scheme in the Budget 2021-22.

**10. Airstrips in Idukki, Wayanad and Kasaragod**

**(Outlay:** ₹**451.00 lakh)**

To work as feeder ports of the International Airports of the State, promote tourism, increase employment and lead a balanced regional growth, the State government is planning to set up airstrips at Idukki, Wayanad and Kasargod districts. The components include runway (non instrument type), Air craft parking bays, Passenger Terminal Building, Car park and city side facilities and land acquisition costs. The provisions made for the three airstrips are as follows:

* 1. Idukki District - ₹200.00 lakh
  2. Wayanad District - ₹125.00 lakh
  3. Kasargod District - ₹126.00 lakh

The project is only in conceptual stage and needs to be firmed up based on techno economic study and expected to obtain matching assistance from GoI under UDAN scheme. To initiate the works, DPR preparations, land acquisitions and development, an amount of ₹451.00 lakh is provided in the Budget 2021-22.

**11. Greenfield Airport Sabarimala**

**(Outlay:**₹**200.00 lakh)**

The scheme is only in conceptual stage and needs to be firmed up based on techno economic and environmental impact studies. Hence, an amount of ₹200.00 lakh is provided in the Budget 2021-22 to initiate the work, DPR/feasibility study costs and other preparatory works.

**12. Non-Motorized Transport (NMT) (EAP)**

**(Outlay:** ₹**1.00 lakh)**

**(EAP** ₹**5000.00 lakh)**

The Government of Kerala has accorded approval for the NMT and soft mobility initiatives of KMRL. NMT programmes envisages to provide easy access to the commuters, by providing safe pedestrian walkways leading to the Metro stations, cycle tracks and docking facility, such that the ridership of Metro is improved and consequently Fare box revenues will improve. Further the NMT works will also facilitate additional Non-Fare Box Revenues through advertisements, parking fees, in the influence areas.

Junction, drain and footpath improvement, median landscape, elastomeric painting, Road Signage, Metro & Rail connectivity, Urban place making, Arterial Roads, Utility Shifting/Supply, Erection of street light poles are the major components of the project.

The total estimated cost of the project is ₹239 crore. GoK contribution is ₹36.46 crore and the balance being funded by “Agence Francaise De Development (AFD)” amounting to 27 million euro (₹202.54 crore). The Credit Facility Agreement between GoI & AFD was signed on 27th December 2019.

An amount of ₹5000.00 lakh is provided as EAP component and ₹1.00 lakh as State share for Non-Motorized Transport project, being executed by KMRL.

**7.6 TOURISM**

Tourism enables balanced and sustained growth in any region by generating income and employment opportunities. The Kerala Tourism Policy 2017 targets to double the arrival of foreign tourists and 50 per cent increase in the domestic tourist arrivals by 2021. The focus of 13thFive Year Plan is to address the challenges in the tourism sector through exploring new direction, new products, new markets, new tourist groups and refreshing the brand by adopting new strategies and setting up new objectives. The tourism industry in the State is currently facing unprecedented losses because of COVID -19. The tourism units in the State have no business, employment and income. During the first four years of the 13thFive Year Plan, a total of ₹141424.00 lakh was provided as budgeted outlay for implementing various schemes in Tourism Sector. In the budget 2021-22, new initiatives are included to rebuild the lost business in the industry focusing tourist entrepreneurs and employees. An amount of ₹32014.00 lakh is provided in the Budget 2021-22 for implementing schemes in the Sector.

The scheme wise outlay and activities envisaged during 2021-22 are listed below:

**1. Kerala Tourism Development Corporation (KTDC) Ltd.**

**(Outlay:** ₹**900.00 lakh)**

Kerala Tourism Development Corporation is actively participating in tourism industry focusing tourist hospitality for the development of sustainable tourism in the State. The programmes for 2021-22 are upgradation projects including capacity enhancement in the existing hotels in major tourist destinations on cost sharing mode. An amount of ₹900.00 lakh is provided as matching State share for the scheme in the Budget 2021-22 for the projects listed below and spill over commitments.

|  |  |
| --- | --- |
| **Sl.No.** | **Component** |
| i | Upgradation of Hotel Samudra |
| ii | Upgradation of Bolgatty Palace & Island Resort |
| iii. | Additional Cottages and Swimming Pool at Bekal |
| iv | Renovation of Rain Drops Chennai |
| v | Renovation of existing rooms and New block at Tamarind, Parassinikkadavu |

1. **Kerala Tourism Infrastructure Limited (KTIL)**

**(Outlay: ₹153.00 lakh)**

Kerala Tourism Infrastructure Limited is an agency setup for promoting joint venture tourism projects in the State. It is pioneering the tourism infrastructure growth in the State particularly through evolving partnership models. The activities for 2021-22 include the following projects/activities to build essential infrastructure related to tourism activities as well as to serve as an investment facilitation agency of the tourism department.

|  |  |
| --- | --- |
| **Sl.No.** | **Component** |
| i | Reformulation of Veli Tourism Project and development of  tourism infrastructure |
| ii | Development and Facilitation of Innovative Tourism Projects |
| iii. | Facilitatory Services and Investment Promotion for Tourism Project |
| iv | Development of Kadinamkulam –Anchuthengu- Backwater Tourism corridor - a unique holistic tourism experience linking local entrepreneurs |
| vi | Project formulation, DPR, PMCs, procurement and  post implementation costs. |

An amount of ₹153.00 lakh is provided in the Budget 2021-22 for the scheme as matching State share.

1. **Bekal Resorts Development Corporation Ltd. (BRDC)**

**(Outlay: ₹250.00 lakh)**

Bekal Resorts Development Corporation Ltd. (BRDC) is the agency which coordinates the development of tourism activities in Bekal and northern districts. To give an impetus to the tourism development of this region, destination development, developing/ upgrading tourism spots, tourism amenities etc, improving access/conveyance opportunities in the destination and destination specific product development are envisaged under the scheme and the tentative activities include

* Café de Bekal Project
* Rainbow Recreational Zone/Fort Wall Project
* Night Food Street Project at Anangoor & Night Life Project at Kasaragod
* Chandragiri River Tourism
* Bekal Retreat Centre
* Marketing/Awareness
* Upgradation of existing tourism amenities

An amount of ₹250.00 lakh is provided in the Budget 2021-22 for the scheme as matching share of State.

**4. District Tourism Promotion Councils (DTPCs) and Destinations Management Councils (DMCs)**

**(Outlay: ₹500.00 lakh)**

District Tourism Promotion Councils (DTPCs) mainly concentrate on tourism activities like development and marketing of local products through public/private participation, improvement of quality/standards and evolving procedure for certification of tourism products, co-ordination of tourism clubs for creation of tourism awareness and guidance to host community, promotion of home stays, catalyse clean destination campaign, initiate local basic infrastructure projects like boat jetties, tourist facilitation centres, pay and use toilets, development of unknown destinations. Destinations Management Councils (DMCs) are involved in advising and managing the destinations and tourism products. This scheme envisages taking up projects as of above in various districts and also to meet spill over commitments of projects during previous years.

An amount of ₹500.00 lakh is provided in the Budget 2021-22 for the scheme.

**5. HR development in Tourism Sector (i) Kerala Institute of Tourism and Travel Studies (KITTS) (ii) State Institute of Hospitality Management (SIHM) (iii) Food Craft Institute (FCI)**

**(Outlay: ₹1000.00 lakh)**

The objective of the scheme is to create skilled and quality manpower in the Tourism sector. The major arms for HR development in tourism are Kerala Institute of Tourism and Travel Studies (KITTS), State Institute of Hospitality Management (SIHM), and Food Craft Institutes (FCIs). This scheme focus on creating infrastructure covering academic, research, developing educational tools, web enabled systems, as well as conduct of awareness programmes/training programmes through the above institutions.

A total outlay of ₹1000.00 lakh is provided in the Budget 2021-22 for the scheme, of which ₹200.00 lakh is set apart for women trainees who constitute more than 30 per cent of the various programmes.

**i . Kerala Institute of Tourism and Travel Studies (KITTS) (₹300.00 lakh)**

KITTS is an autonomous institute under the Department of Tourism, Government of Kerala, engaged in providing quality academic services and training programmes to develop professional and competent personnel for Travel, Tourism and Hospitality industry taking into account the present and futuristic requirements of the tourism sector.

An amount of ₹300.00 lakh is provided for KITTS for the following activities:

Infrastructure Development - infrastructure development of the institute including completion of balance work in connection with new academic block and online test centre Phase III, renovation of existing residency building, ladies hostel and Centre of Excellence.

Academic/Training Programmes - R&D activities, programmes conducted by Centre for Eco tourism & Centre for Responsible Tourism, strengthening library, and support to training programmes are included under the component.

**ii. State Institute of Hospitality Management (SIHM*)* (₹ 300.00 lakh)**

The State Institute of Hospitality Management is engaged in providing training to acquire professional skills and knowledge as well as to improve the attitude of Human Resource in the field of Hospitality Management and catering technology. An amount of ₹300.00 lakh is provided for SIHM under the scheme in 2021-22 for the following activities:

i. State Institute of Hotel Management & Catering Technology, Kozhikode - Infrastructure development including construction of ladies hostel for the institute.

ii. Hotel Management & Catering Technology, Kottayam – Infrastructure development including construction of academic block.

iii. Kerala Institute of Hospitality and Management, Dharmadom, Kannur –Infrastructure development including construction of permanent campus for the centre.

**iii. Food Craft Institutes (FCI) (₹400.00 lakh)**

The Food Craft Institute is imparting training to promising young men and women in various trades of Hotel and Tourism industry with the objective of building a strong skilled workforce in catering technology and tourism industry.

An amount of ₹400.00 lakh is provided for FCI in 2021-22 for :

* Infrastructure Development including on-going construction of institute building at Kozhikode
* Up gradation of institutes, Purchase of equipment, modernisation of computer lab and setting up of library.

**6. Studies on Impact of Tourism Including Collection of Tourist Statistics**

**(Outlay:** ₹**95.00 lakh)**

The scheme is envisaged for conducting regular feedback studies, impact studies, market studies, surveys, collection of tourist arrival statistics and other data on tourism industry, training to investigators and also to meet the cost of collecting and publishing tourist statistics regularly. An amount of ₹95.00 lakh is provided in the Budget 2021-22 for the scheme.

**7. Marketing**

**(Outlay:** ₹**6500.00 lakh)**

Kerala is the pioneer in marketing tourism among the Indian States and currently exploiting the potential of Information Communication Technology in Marketing Tourism both in international and as well as domestic markets.

The activities under the scheme include International and National promotional campaigns, Branding, Partnerships and Collaterals as given below.

|  |  |
| --- | --- |
| **Sl.No.** | **Component** |
| i | International and National marketing events including  participation in trade fairs and organizing B2B meets. |
| ii | International and National campaigns including print, TV,  Cinema Halls, OOH etc. |
| iii | Website development and web based marketing activities |
| iv | Social media and Digital campaigns including National and  International Blog Express |
| v | Conducting FAM Trips for tour operators, potential travel  writers and Journalist |
| vi | Production and revamping of publicity materials |
| vii | Sponsorships, financial assistance to various fairs with  tourism potential and awareness advertisements |
| viii | Focused Public Relations activities in International and  domestic markets |
| ix | Promoting MICE, Monsoon Tourism, Adventure Tourism  Branding of Tourism information centres. |

An amount of ₹6500.00 lakh is provided in the Budget 2021-22 for the scheme for taking up activities in above areas based on marketing need analysis and developing strategies with targets and guidelines and also innovative marketing strategies to attract tourists in the post covid scenario to bring back lost business in the tourism industry.

**8. Conservation, Preservation and Promotion of Heritage, Environment and Culture**

**(Outlay:** ₹**1800.00 lakh)**

This scheme envisages promotion of traditional fairs, festivals and local cultural programmes including Kochi Muziris Biennale. An amount of ₹1800.00 lakh is provided in the Budget 2021- 22 for the scheme for the following activities.

|  |  |
| --- | --- |
| **Sl.No.** | **Component** |
| i | Nishagandhi Dance & Music Festival, State level and district  level Onam Week Celebration, Utsavam programme (folk art festival) in all  districts |
| ii | Promotion of traditional fairs, festivals and cultural programmes |
| iii | Conservation and preservation of heritage structures such as  Bungalows, Guest houses, monuments, Historical structures and heritage  places having tourism potentials |
| iv | Kochi Muziris Biennale |
| v | Kerala Travel Mart |

**9. Infrastructure Facilities and Matching Grants for Schemes Sponsored by Government of India**

**(Outlay:** ₹**200.00 lakh)**

The scheme envisages complementary/matching components of Central sector projects/schemes in fulfilling the overall objective of the projects.

* Supplement the components of the projects under Central Sector Scheme which are not sanctioned under the central scheme guidelines, but are essential for the overall completion of the projects
* Supplement the fund sanctioned by the Government of India for the discontinued schemes under Centrally Sponsored Scheme/ Central Sector Schemes.
* Facilitate fund advancing to projects taken up under Centrally Sponsored Schemes/ Central Sector Schemes and reimburse the same when Government of India releases installments

An amount of ₹200.00 lakh is provided in the Budget 2021-22 for the scheme.

**10. Incentives for Creation of Infrastructure Facilities and Tourism Products in Private**

**Sector**

**(Outlay:** ₹**1270.00 lakh)**

This scheme is envisaged to continue incentives for conservation of private heritage buildings **(Grihasthali).** Other activities under the scheme include viability gap funding to support common tourism infrastructure projects like RO plants, common waste management systems, common boat jetties, dry dock facilities, adventure activities.

Apart from this during 2021-22, crisis mitigation in the tourism industry due to the outbreak of Covid-19 is also envisaged via this scheme viz. Tourism Employment Support Scheme, Tourism Working Capital Support Scheme, Houseboat maintenance support scheme and Tourism Guides support scheme

An amount of ₹1270.00 lakh is provided in the Budget 2021-22 for the scheme.

**11. Up-gradation, Creation of Infrastructure and Amenities**

**(Outlay:** ₹**11700.00 lakh)**

Kerala Tourism aims on one hand delivering world class experiences to visitors by improving tourist destinations, providing better facilities, launching new products and maintaining them perfectly. On the other hand, tourism activities shall ensure decent income and better employment to local people and restore the nature and cultural heritage of the State. The scheme envisages developing infrastructure in major tourism destinations as well as tourism products.

The main components envisaged under the scheme are:

**Development of major tourism destinations**

* Developing major tourism destinations like Kovalam, Kumarakom, Thekkadi, Munnar, Fort Kochi, Athirappally, Wayanad, Varkala, Ponmudi, Neyyar, Akkulam, Veli, Ashtamudi, Thenmala, Sabarimala, Alappuzha, Vembanad backwaters, Vagamon, Cherai, Peechi, Guruvayoor, Malampuzha, Nelliyampathy, Nila, Nilambur, Kappad, Iringal, Thusharagiri, Dharmadam- Muzhupilangad, Malabar Backwater and rivers as per Master plan/DPRs with business plans.
* Green Carpet initiative for building sustainable infrastructure for destination management system in the State through participation and partnership
* River Cruise tourism and related projects Master plan based projects/activities including viability gap funding for PPP projects.
* Procurement of land for important tourism projects

**Development of minor destinations and tourism products**

This component is intended to develop new, lesser known and existing destinations across the State directly or on PPP mode including other tourism products;

* Develop state of art information centres at tourist centres, cities and major transport nodes.
* Adventure tourism productsInternational Quality Tourism Signage at destinations and en-route
* Quality Wayside and waterside amenities
* Tourism linked transportation projects
* Providing Safety and security infrastructure in tourist destinations
* Infrastructure for Waste free tourism destinations, Developing innovative sustainable waste management models, clean toilets and energy efficient techniques with active participation of stakeholders
* Development of Green Tourism Circuit Kottayam on PPP mode
* Pilgrim and Heritage Tourism Circuits
* Dream Destination projects for upscaling High-priority Destinations to international standards with appropriate themes, ensuring tourists dream-level experiences
* Rebuild Kerala Initiative Initiatives on Disaster Resilient Tourism destinations.

The outlay provided is to meet spill over commitments and taking up master plan based projects/activities including viability gap funding for the PPP component of the project.

An amount of ₹11700.00 lakh is provided in the Budget 2021-22 for the above mentioned activities under the scheme.

**12. Upgradation, Creation of Infrastructure and Amenities at Guest Houses**

**(Outlay:** ₹ **2500.00 lakh)**

Tourism Department has been creating and maintaining guest houses across the State and major cities outside Kerala. The scheme envisages renovation, modernization and upgradation of Guest houses and Yathri Nivases.

An amount of ₹2500.00 lakh is provided in the Budget 2021-22 for the scheme for completing on-going projects and for taking up few new projects.

1. Guest Houses
   * 1. Government Guest House, Sulthan Bathery Phase III- The total project cost for the project Construction of Additional block at Guest House, Sulthan Bathery is ₹11.25 crore.
     2. Government Guest House, Kozhikode Phase II - The total project cost for the project is ₹9.50 crore.
     3. Accommodation Complex at Munnar Guest House-An amount of ₹4.81 crore is the total project cost for the construction of Accommodation Complex at Munnar Guest House.
     4. Renovation and modernization of Government Guest House, Thycaud Thiruvananthapuram
     5. Renovation of old block, Government Guest House, Sulthan Bathery, Wayanad
     6. Upgradation and Renovation of Government Guest House, Aluva
     7. Construction of Guest House at Guruvayoor
     8. Renovation of Guest House, Peermadu, Idukki
     9. Upgradation of old block at Guest House, Kannur
     10. Renovation and conservation of Govt. Guest House, Ernakulam
2. Yathri Nivases
   * 1. Construction of Yathri Nivas at Kanyakumari, Idukki and Athirappilly, Thrissur
     2. Renovation of old Yathri Nivas at Kozhikkode

**13. Modernization and Strengthening of Tourism Institutions**

**(Outlay: ₹180.00 lakh)**

This scheme is meant for strengthening the existing institutional mechanism of Department to take up added responsibilities by the tourism related institutions within the Government. The activities cover outsourcing professional services, engaging PMCs, modernising tourism institutions adopting the latest technologies, enhancing the working environment including e - office, CCTV cameras, office equipment and furniture. Training and capacity building of human resources in various categories in tourism industry to enhance productivity/performance is also envisaged under the scheme.

An amount of ₹180.00 lakh is provided in the Budget 2021-22 for the scheme.

**14. Tourist Accommodation (Guest Houses)**

**(Outlay: ₹100.00 lakh)**

The department of tourism is having 24 guest houses, 4 Yathri Nivases and two Kerala Houses. The amount provisioned in the scheme is for providing up-to-date accommodation facilities covering essential civil, electrical, mechanical and allied works in guest houses, Yathri Nivases and Kerala Houses.

An amount of ₹100.00 lakh is provided in the Budget 2021-22 for the scheme.

**15. Development of Eco tourism Products**

**(Outlay: ₹240.00 lakh)**

The scheme envisages development of new eco-tourism destinations, strengthening existing destinations and development of eco-tourism products in forest and wild life sanctuaries in association with Forest Department. The outlay provided is for the eco-tourism projects in Thiruvanathapuram, Kollam, Kottayam, Idukki, Thrissur, Palakkad, Malappuram,Wayanad, Kannur and Kasaragod districts. An amount of ₹240.00 lakh is provided in the Budget 2021-22 for the above activities including project management expenses and spill over costs.

**16. Responsible Tourism**

**(Outlay: ₹600.00 lakh)**

Responsible Tourism (RT) is a pro-poor tourism approach initiated by the Tourism Department in 2008. In RT, tourism is planned and implemented with the involvement of all stakeholders including the local people and takes care of economic, social and environmental aspects of tourism. The success in RT initiatives prompted Government of Kerala to form RT Mission to scale up the activities across the State. Responsible tourism activities envisage two distinct streams of activities:

To take up field level activities to work with the community, LSGs, Government agencies, NGOs, tourism trade etc through RTMission

To take up academic and research activities to continuously handhold the field level activities and give proper guidance based on studies.

The scheme envisages the following activities to be taken up under RT Mission

* + Initiating community level tourism activities and creating tourism trade-community level linkages
  + Encouraging adoption of RT principles and practices by tourism trade and other stakeholders.
  + RT classification in tourism service providers
  + Training & Capacity building for local community and other stakeholders in connection with various tourism activities, small, medium and micro enterprises for products related with tourism industry for facilitating local employment, local procurement, local entrepreneurship and fair trade in Tourism sector
  + Encourage environmental friendly activities through units and tourists through green principles in construction, green architecture, green protocol in waste management, organic farming etc at tourism destinations
  + Empowerment of women and marginalised community through tourism
  + Promote socially relevant activities by tourists and tourism units and facilitate local art, culture, traditional livelihood activities through tourism
  + Creating Responsible Tourism Destinations from Grass Root - People’s participation for Participatory Planning and Empowerment through Responsible Tourism-PEPPER
  + Accessible tourism activities in Kerala and creation of new village life experience tour packages
  + Developing Kerala Responsible tourism network
  + Special Tourism Gramasabhas and tourism resource mapping at the grass roots ensuring community participation
  + RT Human Resource Directory preparation, training and documentation of the field level activities.

The scheme aims to provide training to 5,000 beneficiaries, and develop 10,000 RT units, creating 50,000 direct and indirect beneficiaries, through various activities in 2021- 22.

In RT Mission, most of the activities are women centred and majority of the beneficiaries (80%) are women. Women stakeholders are in forefront (80%) in executing village life experience packages and 70 % of the training beneficiaries are also women.

An amount of ₹600.00 lakh is provided in the Budget 2021 -22 for the scheme, of which

₹300.00 lakh is set apart for women.

**17. Heritage & Spice Route Project**

**(Outlay: ₹2500.00 lakh)**

The State has a glorious past of art, culture and international trade. The government has to preserve the remains for showcasing the past glory and to conserve it for the future. This scheme envisages archaeological excavation, conservation, preservation, development of tourist facilities, development of museums, promotion and marketing events including land acquisitions related to projects and activities of Muziris Heritage Project, Thalasserry Heritage Project, Spice Route initiative and Alappuzha Heritage project.

*Muziris Heritage project* covers a network of museums, palaces, forts, temples, churches, synagogues and other historical monuments enroute waterways**.** The “Spice route Project” of Department in association with UNESCO and other partner countries is developing as a unique global tourism product centred around the State of Kerala.

Thalasserry Heritage project covers historic monuments like Thalasserry Fort, Gundart Bungalow, Sea Bridge, Kannur Fort, Arakkal Kettu etc .

Alappuzha Heritage project is another project which is being developed based on a Masterplan and aims at the conservation and preservation of existing heritage monuments and buildings, water circuits, introducing canal cruises showcasing the handicrafts and Alappuzha’s age old coir factories.

An amount of ₹2500.00 lakh is provided in the Budget 2021-22 for various activities under the scheme.

**18. Development of Innovative Tourism Products**

**(Outlay: ₹50.00 lakh)**

Kerala Tourism along with its vibrant private partners has been in the forefront identifying and developing innovative tourism products and marketing them effectively.

Developments of innovative digital platforms, innovative marketing tools, innovative waste management models, disabled-friendly products/activities etc are envisaged under this scheme.

An amount of ₹50.00 lakh is provided for the scheme in the Budget 2021-22.

**19. Central Sector Schemes in Tourism**

**(Outlay: ₹1.00 lakh)**

Ministry of Tourism Government of India has been sanctioning projects under the Central Sector Schemes Swadesh Darshan and Pilgrimage Rejuvenation and Spiritual Augmentation Drive (PRASAD) for developing theme based tourist circuits and Pilgrimage tourist destinations. This scheme is intended to explore and get project funding under the Central Schemes. The on-going Central Sector Schemes PRASAD and Swadesh Darshan are brought under one umbrella namely Central Sector Schemes in Tourism.

An amount of ₹1.00 lakh is provided in the Budget 2021-22 for the scheme as States matching contribution to take up the projects.

**20. Kerala Tourism Entrepreneurship Fund(KTEF)**

**(Outlay: ₹1.00 lakh)**

To produce and manage innovative tourism products through tourism entrepreneurship, Tourism department will provide advices, guidelines and management support along with matching capital assistance in the form of venture fund created known as Kerala Tourism Entrepreneurship Fund (KTEF). This can attract new generation entrepreneurs who are capable to invest and create more job opportunities through innovative tourism products/services.

The venture fund corpus will be sourced from investors like SIDBI and Angel Funds: The capital assistance is envisaged for new as well as existing small and medium scale entrepreneurs. The viability of the projects will be evaluated by technical committee and funding gap will be identified. The potential entrepreneurs with innovative ideas/projects/solutions addressing issues in tourism sector with preference to persons qualified through technical university/tourism educational institutions are eligible for assistance under the scheme. An amount of ₹1.00 lakh is provided in the Budget 2021-22 for the scheme.

**21.Champions Boat League (Boat Race on League Basis)**

**(Outlay: ₹ 1274.00 lakh)**

Tourism Department has launched a novel venture the “Champions Boat League” (CBL) on the model of the Indian Premier League (IPL) to transform the State’s legendary and historically-significant “Vallamkali”(snake boat races) into a world-class sporting event. The main objectives of the event are conservation and promotion of Kerala's traditional festivals, to create an annual event to be marketed as a Tourism product and to showcase Kerala Backwaters to the world.

The activities envisaged under the scheme are to conduct Champions Boat League in at least 12 destinations, publicity, venue infrastructure, IT & Technical support activities, cultural programmes, prizes, incentives, match organisation and hospitality & allied activities related to the event.

An amount of ₹1274.00 lakh is provided in the Budget 2021-22 for the scheme.

**22. Tourism Complex/ Vinoda Sanchara Bhavan**

**(Outlay: ₹200.00 lakh)**

The scheme intends to establish a centralised office complex in the premises of Govt Guest House, Trivandrum as a unique structure bringing various institutions of Department of Tourism under an umbrella. The possibility of obtaining matching contribution from the stakeholder institutions as matching share is to be explored. An amount of ₹200.00 lakh is provided in the Budget 2021-22 for the scheme against the total project cost of ₹39.00 crore.