



HIGHWAYS AND MINOR PORTS DEPARTMENT

**Policy Note
2022 - 2023**

Demand No. 21

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Highways and Minor Ports Department**

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**Government of Tamil Nadu
2022**

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HIGHWAYS AND MINOR PORTS DEPARTMENT POLICY NOTE 2022-23

1. INTRODUCTION

Infrastructure is pre-requisite for the faster economic growth of a country. Road Infrastructure plays a vital role in the development of agriculture, industry, commerce, tourism and medical sector. Hence, to enhance the production and distribution of all commodities and services, it is necessary to form and maintain an effective road network. This would provide remote area an access to the marketing and commercial centres.

Minor ports play an important role in developing the port based industries and thereby developing the economic activities along the coastal areas of the state.

1.1 HIGHWAYS

Government of Tamil Nadu has the unique distinction of creating a separate Highways

Department as early as 1946 exclusively to improve the road infrastructure in the State. The Department has contributed its role in developing the infrastructure for the past 75 years in construction and maintenance of quality, safe and reliable road network.

CATEGORIES OF ROAD

The roads are classified in the following categories based on the location, importance and functioning

National Highways (NH)

National Highways are the main arterial routes that connect capitals of states, major cities, industrial centres and major ports. **National Highways are under the control of Ministry of Road Transport and Highways. Government of India.**

State Highways (SH)

The State Highways link the district headquarters, Major towns and cities, industrial areas and tourist/ pilgrim centres within the state.

Major District Roads (MDR)

Major District roads provide linkage between production and marketing centres within a district and also connect district and taluk headquarters with the state highways and National highways.

Other District Roads (ODR)

The Other District roads connect production centres, market centers, taluk headquarters, block development headquarters and other main roads.

State Highways, Major District roads and Other District roads are maintained by the state Government.

Length of roads (in Km)

Classification of Road		Length
National Highways (NH)	State National Highways	1511
	National Highway Authority of India	5095
	Total	6606
State Highways (SH)		11279
Major District Roads (MDR)		11625
Other District Roads (ODR)		41052
Total length of roads other than NH		63956
Overall Total		70562

Government have issued order dated 03.11.2021 fixing norms for upgradation of roads to State Highways and Major District Roads.

LANE WISE CONFIGURATION LENGTH (in Km)

Category	Single Lane	Intermediate lane	Double Lane	Two Lane with Paved Shoulder	Four Lane	Six Lane	Total
National Highways (NH)	-	-	1892	2127	2263	324	6606
State Highways (SH)	33	207	7961	1830	1017	231	11279
Major District Roads (MDR)	315	6243	4669	294	101	3	11625
Other District Roads (ODR)	33066	6567	1331	76	12	-	41052
Total	33414	13017	15853	4327	3393	558	70562

1.2 TAMIL NADU MARITIME BOARD (TNMB)

Tamil Nadu has the second longest coastal line (1076 kms) with 3 major ports (Chennai, Ennore and Thoothukudi) and 17 minor ports. The major ports are governed by the Government of India. The minor ports are administered, controlled and managed by the Tamil Nadu Maritime board.

1.3 POOMPUHAR SHIPPING CORPORATION (PSC)

This corporation was formed for transporting the coal required for the Thermal power stations operated by the Tamil Nadu Generation and Distribution Corporation Ltd., (TANGEDCO) for the generation of electricity and it was formed on 11.04.1974 under the Companies Act, 1956

The corporation is operating ferry service in tourist town of Kanyakumari from the shore to Vivekananda Rock Memorial and the Ayyan Thiruvalluvar statue for the tourists.



Hon'ble Chief Minister inaugurated
Koyambedu Grade Separator on 01.11.2021

2. POLICY OUTLINE

Roads are essential for safe and faster transport of passengers and goods. Road transport also acts as a feeder service to railway, shipping and air traffic. Hence development of road infrastructure is necessary to provide connectivity and to cater the ever-increasing traffic. Hence, Government of Tamil Nadu has formulated the long-term visionary plans for the next ten years as follows:

- **Chief Minister's Road Development Programme (CMRDP).**
 - **Upgradation of State Highways to four lanes for a length of 2200 Km in 10 years**
 - ❖ In the year (2021-22) 255.02 Km length of roads taken up under CRIDP
 - **Single and intermediate lane roads connecting taluk/ block headquarters and important MDR/ ODR to be upgraded to double lane for length of 6700Kms in 10 years.**

- ❖ In the year (2021-22) 639.10 Km length of roads taken up under CRIDP
- **Construction of High-level Bridges in lieu of all existing 1281 causeways in Phased manner**
 - ❖ In the year (2021-22), 648 numbers of causeways taken up for construction of High-Level Bridges
- **Bypasses will be formed for the 59 municipalities to decongest the traffic.**
 - ❖ 4 numbers in Construction stage, 27 numbers in Land acquisition stage, 22 numbers in Detailed Project Report (DPR) preparation stage and 6 numbers in feasibility study stage
- **Railway Level crossings along State Highways, Major District Roads and Other District Roads shall be converted to Road Over Bridge.**
 - ❖ Out of 100 numbers of level crossings identified for construction of ROB, 20

numbers are in DPR stage and 29 numbers are in LA stage. Remaining to be taken up in phased manner.

- **10,000 Km of Panchayat / Panchayat union Roads will be upgraded to Other District Road standard in five years.**

- ❖ Rural Development and Rural Department has handed over 3,435 km length of roads for upgradation to Highways Department.

- 2,000 Km of Panchayat / Panchayat union Roads being taken up in the first Phase.

- **Elevated Corridors to be constructed in the most traffic congested areas in cities.**

- ❖ DPR taken up for three elevated corridors

- Trichy

- Head Post Office through Gandhi statue, Mutharaiyar statue to Court Roundana

- Odathurai Cauvery Bridge through Anna statue Kalaignar Arivalayam to Mallatchipuram
- Madurai
 - Nelpettai to Avaniyapuram Bypass Junction
- ❖ NHA1 being followed up for elevated corridor in Chennai and Trichy.
- **To enhance the cargo handling capacity of Tamil Nadu Maritime Board from 1.5 million metric ton to 10 million metric ton**
 - ❖ Action taken to appoint the Port operator through PPP mode in Cuddalore port

Close follow up action taken by Government of Tamil Nadu to expedite the projects of Government of India.

- **State Level Projects of Government of India**
- ✓ Elevated corridor from Chennai Port to Maduravoyal.

- ❖ DPR in progress for two tier flyovers. Consent for MOU sent to GOI
- ✓ Four laning of Vikravandi- Kumbakonam-Thanjavur Road.
 - ❖ Constraints removed due to continuous action taken by the Government of Tamil Nadu. Work is in progress at various stages.
- **Upgradation of the East Coast Road from Chennai to Kanyakumari to four lane.**
 - ❖ From Chennai to Nagapattinam work is in Progress at different stages. From Nagapattinam to Kanyakumari, Detailed Project Report is in progress.
- **Upgradation of road from Chennai to Kanyakumari via Trichy, Madurai from four lane to six lane.**
 - ❖ Alignment has been approved in principle from Tambaram to Chengalpattu (elevated corridor) and from Chengalpattu to Tindivanam

(widening of road to eight lane).
From Tindivanam to Kanyakumari, it
has been insisted to take up the
work.

- **Formation of sea bridge from Chennai Port to Manali - Thiruvottiyur junction to decongest the traffic.**

❖ DPR preparation has been taken up by
National Highways Authority of India.

3. SCHEMES

3.1 STATE FUNDED SCHEMES

- Comprehensive Road Infrastructure Development Programme (CRIDP)
- Road Safety Programme
- Chennai Metropolitan Development Plan
- Formation of Bypasses
- High Level Bridges
- Grade Separator / Elevated Corridor
- Rural Road Development
- Maintenance works

3.2 GOVERNMENT OF INDIA (GOI) FUNDED SCHEMES

- Annual Plan
- Central Road and Infrastructure Fund (CRIF)

3.3 OTHER SCHEMES

- National Bank For Agriculture and Rural Development (NABARD) Loan Assistance Scheme
- Railway Works Programme (RWP)

3.4 PROJECTS UNDER EXTERNAL FUNDING

- Tamil Nadu Road Sector Project - II (TNRSP-II)
- Chennai Kanyakumari Industrial Corridor Project (CKICP)
- Chennai Peripheral Ring Road (CPRR)

3.5 SUSTAINABLE DEVELOPMENT GOALS (SDG)

The United Nations have set up the Sustainable Development Goal (SDG) with 17 goals and 169 targets. The country has set up its own India Index and Indicators for measuring its progress in this aspect.

The specific indicators linked with schemes pertaining to Highways Department are as follows.

GOAL 3 - ENSURE HEALTHY LIVES AND PROMOTE WELL-BEING FOR ALL AT ALL AGES.

Target 3.6: By 2020, Halve the number of global deaths and injuries from road traffic accidents.

The specific indicator related to this goal is to reduce the number of deaths and injuries due to road accidents.

Improvements of road Engineering measures and rectification of blackspots are carried through the road safety schemes of this department. Moreover action is being taken to reduce the accident in coordination with other stakeholder Departments of Transport, Health, Police and Education department.

GOAL 9 - INDUSTRY, INNOVATION AND INFRASTRUCTURE BUILD RESILIENT INFRASTRUCTURE, PROMOTE INCLUSIVE AND SUSTAINABLE INDUSTRIALIZATION AND FOSTER INNOVATION.

Target 9.1: Develop quality, reliable, sustainable and resilient infrastructure, including

regional and trans-border infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all.

The objective of this goal is to develop the better infrastructure to ensure the social and economical prosperity of the nation. Road infrastructure plays a vital role for the movement of people and goods .

The seven specific indicators assigned to this department to achieve this goal are the length of SH, MDR, ODR with the lane improvements. Continuous efforts are being taken to augment the capacity of the roads by upgrading the roads in different categories through the various schemes.

3.6 OVERALL EXPENDITURE FOR THE YEAR 2021-22 AND BUDGET ALLOTMENT FOR THE YEAR 2022-23

During 2021-22, Rs. 15,809.03 Crore had been allotted for plan works. Out of this, expenditure of Rs. 13,110.88 Crore has been incurred.

Budget allotment for Rs. 15,960.41 Crore has been made for implementation of various schemes for the financial year 2022-23.

4. ORGANISATIONAL STRUCTURE

Highways and Minor Ports Department is functioning with the following organisation setup.

Highways and Minor Ports Department

Highways Department wings



- Office of the Director General
- Construction and Maintenance
- National Highways
- NABARD and Rural Roads
- Projects
- Metro
- Highways Research Station
- Planning, Designs and Investigation
- Tamil Nadu Road Sector Project-II
- Chennai Kanyakumari Industrial Corridor Project

Companies / Corporations / Boards



- Tamil Nadu Road Development Company
- Tamil Nadu Road Infrastructure Development Corporation
- Tamil Nadu Maritime Board
- Poompuhar Shipping Corporation Limited

4.1 SPECIAL LAND ACQUISITION UNIT

To expedite the Land acquisition of Highway project, Special Land Acquisition unit consisting of 5 special District Revenue Officer units with 18 Tahsildar units have been formed.

5. SPECIAL ROAD INFRASTRUCTURE FACILITIES

Considering the importance of the special road infrastructure facilities, Government of Tamil Nadu has undertaken the following efforts for the development of specific infrastructure facility.

5.1 FORMATION OF BYPASSES

Bypasses provide hassle-free through traffic relieving congestion, reducing the vehicle operating cost and saving the travel time.

112 Bypasses have been taken up and they are in progress at various stages.	
Construction	27
Land Acquisition	34
Detailed Project Report (DPR)	41
Preconstruction	10

Details of the bypasses under construction stage are listed below.

- Tiruthani
- Iluppur
- Rasipuram
- Tambaram Eastern Bypass
- Western Bypass to Pollachi
- Walajabad
- Arakkonam
- Srivaikundam
- Vandhavasi
- Chetpet
- Maruthadu
- Tirupattur
- Vaitheeswaran Kovil
- Nakkasalem
- Kurumbalur
- Mangalampettai
- Panruti
- Muthugapatti
- Senthamangalam
- Kalappanaickanpatti
- Belkurichi
- Singalanthapuram
- Konganapuram
- Sankagiri
- Tiruchengode
- Kelambakkam
- Thiruporur

The bypasses in Pre construction stages, Land Acquisition and Detailed Project Report are listed in Annexure.

5.2 CONSTRUCTION OF HIGH-LEVEL BRIDGES (HLB)

River Bridges are constructed to ensure the smooth flow of traffic for crossing rivers and canals. They help to ensure the uninterrupted traffic during flood in monsoon season.

324 HLB have been taken up and they are in progress at various stages.	
Construction	129
Land Acquisition	9
Detailed Project Report (DPR)	56
Preconstruction	130

Some of the major High level bridges are as follows.

Completed works:

- Construction of High-Level bridge across the River Cheyyar at km 0/8 of Thandarai - Eraiyur Road
- Construction of High-Level bridge across Coleroon river at Kallanai connecting Thiruvanaikoil road and Grand Anaicut road in Thanjavur district

Works in progress:

- Mannadimangalam at km 27/10 of Melakkal-Peranai road and Irumbadi at km 2/2 of Sholavandan-Karuppatti road
- Reconstruction of bridge at Puliyampatti – BhavaniSagar – Bannari road (M-889) across Bhavani river
- Construction of High-level Bridge across Kosathalaiyar river at Km 11/7- Tiruttani Nagalapuram Road (MDR719) in lieu of existing vented causeway

5.3 CONSTRUCTION OF HIGH LEVEL BRIDGES IN LIEU OF EXISTING CAUSEWAYS

Construction of 648 Nos. of High Level Bridges in lieu of existing causeway structures taken up and work is in progress.

5.4 CONSTRUCTION OF GRADE SEPARATOR

Grade Separators are constructed at the intersections of the traffic congested roads to provide the uninterrupted traffic flow, reducing

the vehicle conflicts and enhancing safety of the road users.

22 Grade Separators have been taken up and they are in progress at various stages.	
construction	5
Land Acquisition	2
Detailed Project Report (DPR)	14
Preconstruction	1

Some of the Grade Separators are as follows.

Completed works:

- Grade Separator work at Koyambedu junction.
- Grade Separator work at Taramani to Velachery Bypass arm.
- Construction of Grade Separator at km 3/2 of Madurai - Thondi road and km 2/4 of Madurai Ring Road junction.

In progress:

- Grade Separator work at Velachery junction, Velachery Bypass to Tambaram arm.
- Grade Separator work at Medavakkam, Tambaram – Velachery Arm.
- Grade Separator at Mount-Poonamallee-Avadi road from MIOT Hospital to Mugalivakkam and Vehicular Under Pass at Madipakkam are being executed by Chennai Metro Rail Limited (CMRL) integrated with Metro Rail projects.
- Construction of Grade Separator at Athupalam - Ukkadam in Coimbatore.
- Construction of Grade Separator at Madhya Kailash junction (Preconstruction stage).

Detailed Project Preparation stage:

- Construction of Grade Separator at Km 5/0 of Madurai – Dhanuskodi Road (NH 49) and at Km 5/6 of Madurai Ring Road Junction (Viraganur Junction)
- Grade Separator at Km 6/6 of Tirunelveli

Bypass Road (SH 75A) near Veeramanickapuram

- Madurai-Pandikovil-Kappalur road (Trichy-Aruppukottai-Thoothukudi junction of NH45B)

5.5 CONSTRUCTION OF ELEVATED CORRIDOR

Traffic congestion in major cities demands elevated highways as there is no further space available for widening of roads in commercial stretches and built up areas.

11 Elevated corridors have been taken up and they are in progress at various stages.	
Construction	2
Detailed Project Report (DPR)	9

The major Elevated corridors are listed below.

In Progress:

- Elevated corridor along Avinashi road in Coimbatore City from Goldwins to Uppilipalayam for 10.10 Km

- Elevated corridor along Erode – Tiruchengode road at pallipalayam junction for 3.40 Km

Detailed Project Preparation stage:

- Elevated corridor along Tiruchirapalli-Pudukottai-Aranthangi-Memisal Bypass road through Gandhi statue to Trichy court Roundana - 1.6 km
- Elevated corridor along Nelpettai to Avaniyapuram junction – 4.8 Km
- Elevated corridor along Madurai -Thondi Road (Apollo Hospital Junction) – 1.8 Km
- Elevated corridor along Madurai-Natham road – 1.8 Km
- Construction of Elevated corridor for a length of 5.40 Km from Kalinkarayan Illam to Thindal medu (Erode-Perundurai-Kangeyam road).
- Construction of Fly Over in Tiruppur - Perumanallur - Kunnathur - Perundurai road (From New Bus stand to Pooluvapatti four

road junction, Pushpa Theatre to Pandian Nagar) – 6.2 km

- Construction of Elevated Corridor from Odathurai Cauvery Bridge through Anna statue and Kalaingar Arivalayam to Mallachipuram in Trichy City.- 4.0 Km
- Construction of Elevated corridor from Periyar bus stand to Yanaikal via Meenakshi bazar in Madurai City– 2.4 Km
- Construction of Elevated corridor from Anna statue to Trichy Railway junction – 5.4 Km

5.6 CONSTRUCTION OF ROAD OVER BRIDGES/ ROAD UNDER BRIDGES/ LIMITED USE SUBWAY

Road Over Bridges/ Road Under Bridges are taken up to eliminate waiting time, hinderance of traffic flow and to prevent accidents at Level Crossings.

138 ROB/ RUB/ LUS have been taken up and they are in progress at various stages.	
Construction	39
Land Acquisition	58
Detailed Project Report (DPR)	37
Preconstruction	4

Some of the ROB/ RUB works are listed below.

Completed Works:

- Construction of ROB at Km 72/10 of Chennai - Ponnerikarai Kancheepuram road in lieu of existing LC No. 29 near Kancheepuram Railway station.
- Construction of ROB at Km.44/6 of Cuddalore - Chittoor road in lieu of existing L.C.No.144 at Railway Km.182/4-5 in between Thiruvannainallur and Parikkal Railway stations in Chennai - Trichy Chord line.
- Construction of ROB in lieu of existing LC No.59 at Railway Km 142/14-16 in between Latheri and Virinjipuram Railway stations and at Km 0/4 of T.K.V Kottah Road to Virinjipuram Road.

- Construction of ROB in lieu of existing LC No.55 at Railway Km 67/100-200 in between Thandari and Thiruvannamalai Railway Stations and at Km103/8 of Pondy - Krishnagiri Road.
- Construction of ROB at km 1/8 of Pollachi - Palakkad road in lieu of existing L.C.No.122 at railway km 123/1-2 in between Pollachi and Palakkad railway stations
- Construction of ROB in lieu of existing L.C.No.7 at Railway Km 17/28-17/30 in between Ambattur and Avadi Railway Stations. (Near Annanur Railway Station).

In Progress:

- Construction of ROB in lieu of existing LC No.80 at Railway Km 99/100-200 between Polur - Arni Railway Stations at Km 141/4 of Cuddalore- Chittoor Road.
- Construction of ROB at KM. 1/8 of Hasthampatty - bretts road in lieu of existing LC. No. 184 (Railway KM. 190/300-400) and LC No. 185 (Railway KM. 190/400-500) in between Salem Market and Salem Town Railway Stations.

- Construction of ROB at Km.1/500-2/700 of Dindigul to Manakattur road in lieu of existing LC.No.2 at railway Km.1/10-11 in between Dindigul and Akkaraipatti Railway stations LC.No.27 at railway Km.72/200-300 in between Erode and Dindigul railway stations and LC.No.308 at railway Km.431/100-200 in between Thamaraijadi and Dindigul railway stations.
- Construction of ROB in Km.0/2 of Ramanathapuram - Keelakarai road in lieu of existing LC.No. 501 at Railway km.615/200-300 in between Ramanathapuram - Uchipuli Railway Stations.
- Construction of a Road Over Bridge at Km 0/8 of Rajapalayam-Vembakottai Road (SH 186) in Lieu of Existing L.C.No. 449 at Railway Km 591/900-592/0 Near Rajapalayam Railway Station.
- Construction of RUB in lieu of existing L.C.No.9 at Railway Km 23/12-14 in between Avadi and Pattabiram Railways Stations (Near Hindu College Railway station).

6. ROAD SAFETY

Roads play a vital role in the social and economic development of human society. Quality, balanced roads reduce travel time and ensure safer travel. Speed, proliferation of vehicles, errors of drivers and road engineering aspects are the major factors contributing to the high number of road accidents in Tamil Nadu.

The Government of Tamil Nadu is making multi prolonged efforts involving different stakeholders to reduce road accidents.

Hon'ble Chief Minister of Tamil Nadu during the meeting on Road safety held on 18.11.2021 has made the announcement regarding "Innuyir Kappom Thittam", creation of Road safety Authority, Nammai kakkum 48, *Enactment* of Emergency Medical Service Act, Uthavi Sei Thittam, Seerana Salaikal and wider IEC (Information, Education & Communication) campaigns.

To implement the above announcements, a special task force on Road safety has been constituted.

The Highways Department undertakes various road safety measures like Realignment of Curves, Widening of Roads, Reconstruction of Narrow Bridges/Culverts, Improvements of Junction, Construction of Protective wall along high embankment / Wells and providing crash barriers, Road furniture, Centre median, road signages and providing studs in the accident – prone zones.

Under Road Safety Fund, 2574 numbers of road safety works at a cost of Rs.250 Crore and under CRIDP 1343 numbers of works at a cost of Rs.342.28 Crore have been taken-up as spillover works and are in progress.

It was announced to allot 350 Crore, under Comprehensive Road Infrastructure Development Programme & Road Safety Scheme to improve accident spots for reducing road accidents and to avoid fatal accidents. In this regard, 401 works have been sanctioned at a cost of Rs.200.00 Crore under CRIDP scheme and under Road Safety Fund 99 works to a tune of Rs.100 Crore has been sanctioned and these works are in various stage of progress.

Black spots are identified by Ministry of Road Transport and Highways, GoI based on the accident data occurring in 3 years and rectification have been taken up.

1208 locations identified as black spots in Tamil Nadu based on the accidents occurred between 2015 to 2018. Out of this, 1108 black spots have been temporarily rectified (remaining don't need temporary rectification). 326 black spots are permanently rectified and 482 black spots permanent rectification works are in progress.

Road Safety component works are taken-up at a cost of Rs.120.00 Crore under World Bank Funded TNRSP II. Under this component, the following works are in progress.

- Automatic Speed Enforcement System and Advanced Traffic Management System is installed in East Coast Road. Integration to ITMS server for generating e-challan is nearing completion.
- Road Safety Audit completed for about 1487 km in Kanchipuram and Tiruvannamalai District. International Road Assessment

Programme (IRAP) survey for 528km completed and Safe demo corridor project 95.60 km (Kanchipuram 30.80 km & Tiruvannamalai 64.80 km) selected and the work (4 packages) is in progress.

- Supply, Installation, Commissioning and maintenance of Intelligent Transportation System for enforcement in Safe Demo Corridor work is in progress.
- Procurement of equipment for Trauma Care Centre at Tiruvannamalai Medical College Hospital has been taken up and the amount of Rs. 3.98 Crore has been deposited to Tamil Nadu Medical Services Corporation (TNMSC). The procurement is in progress through TNMSC
- Procurement of emergency care Equipment and Ambulance for hospitals along Safe Demo corridor has been taken up and the amount of Rs. 12.65 Crore has been deposited to TNMSC. Ambulance has been procured and to be handed over to Tamil Nadu Health Systems Project (TNHSP) shortly.
- The work of Consultancy services for Data analytics based Performance Evaluation, Location, Dispatch and Routing of 108

Ambulance has been taken up by TNHSP through IIT Madras and it is in progress.

- Procurement of enforcement related vehicle & equipment for Safe Demo Corridor to Police Department has been taken up and an amount of Rs. 82,67,222 has been deposited to Police Department to procure the equipment.
- Creating road safety awareness among school children in Kanchipuram District will be conducted shortly.

ROAD SAFETY WING

An exclusive Road safety wing was created with one Superintending Engineer and eight Divisional Engineers with the aim to monitor, implement and ensure the correctness of the road safety measures for the works taken up by the Highways Department.

Under direction of the Hon'ble Chief Minister of Tamil Nadu to create 'Accident free Tamil Nadu' a special continuous training programme on 'Road Safety Engineering' benefitting the Engineers of the Department has been launched on 15.12.2021. The first phase is planned for 400 Engineers.

Road Safety Awareness meeting was conducted in Namakkal, Chengalpattu and Ooty with various Stake holders, Representative from vehicle owners association and NGOs.

Former Hon'ble Justice Abhay Manohar Sapre, Supreme Court of India and presently Chairman Supreme Court committee on Road Safety reviewed the comprehensive Road Safety measures in Tamil Nadu with all Stake holders on 27.02.2022 at Chennai and appreciated the measures taken by the Highways Department in reducing the Accident and fatalities.

Madurai – Thondi Road (Pillur Junction)



Before Road Safety Work



After Road Safety Work

6A

7. OFFICE OF THE DIRECTOR GENERAL

The office of the Director General co-ordinates with all wings of the Department thereby facilitating a better and efficient functioning of the Department.

7.1 ADMINISTRATION

The office of the Director General is responsible for the personnel administrative matters and establishment of all staff of Highways Department.

7.1.1 Human Resources

The Highways Department functions with a total cadre strength of 6699 staff and details are as follows,

- Director General / Chief Engineers 10
- Superintending Engineer 35
- Divisional Engineer 169
- Assistant Divisional Engineer 541
- Assistant Engineer / Junior Engineer 1085

- Technical Staff 803
- Accounts Branch 171
- Administrative Branch and others 3885

7.1.2 Appointments

During 2021-22, 4 Typists, 12 Assistants and 2 Assistant Draughts Men have been appointed on Compassionate grounds.

7.2 INFORMATION TECHNOLOGY (IT) CELL

The Information Technology Cell of Highways Department functions with the objectives of developing, maintaining and upgrading various Highways related software systems.

The major web based Software applications currently in use by the department are,

- 1. Road Maintenance and Management System (RMMS)** to manage the entire road network of the State
- 2. Geographical Information System (GIS)** to spatially view the details in RMMS

3. Tamil Nadu Highways Project Monitoring System (TNHPMS) to monitor the progress and status of the works of all the wings of Highways Department

Further IT Cell maintains the following websites of the Department:

<https://www.tnhighways.tn.gov.in>

<https://www.tnrsp.tn.gov.in>

<https://www.ckicp.tn.gov.in>

7.3 TECHNICAL COMMITTEES

Board of Engineers (BOE) is the highest forum for taking decision on technical matters which comprises of Director General, all the Chief Engineers of Highways Department and the Director, Highways Research Station.

Commissionerate Of Tenders (COT) is the Committee to streamline the tender acceptance procedure matters which comprises of the Secretary, Finance or his / her Representative, the Chief Engineer (Construction and Maintenance) the Chief Engineer (NABARD and

Rural Roads) and the Chief Engineer of the concerned work.

Revised Administrative Sanction Committee (RASC) This committee recommends to the Government for the variation in the value of administrative sanction of works. This committee comprises of the Director General, the Chief Engineer of the concerned work, the Chief Engineer (Planning, Designs and Investigation), Additional / Deputy Secretary to Government (Highways and Minor Ports Department) and Deputy Secretary to Government (Finance Department).

Technical Audit Committee (TAC) comprises the Director General, the Director, Highways Research Station and all the Chief Engineers to suggest the technical recommendations for executing the works.

Government issued Order on 21.01.2022 enhancing powers for the technical sanction of works for Superintending Engineers upto 7 Crore and for Chief Engineers more than 7 Crore.

8. CONSTRUCTION AND MAINTENANCE

Construction and Maintenance wing is headed by a Chief Engineer with 9 Circles and 44 Divisions. Construction and Maintenance wing of Highways Department maintains State Highways, Major District Roads and Other District roads for a length of 63956 km. Major road infrastructure development projects like Widening, Strengthening, Improvement and Improvement of Riding Quality (IRQP), construction of Elevated Corridors, Grade separators, bridges, culverts, formation of bypasses, conversion of Bed Level Causeways into High Level Bridges, Development of works in Urban Areas, Road Safety works and flood restoration works are being implemented by this wing.

8.1 MAJOR INITIATIVES

8.1.1 Chief Minister Road Development Program (CMRDP)

During Budget Session 2021-22, it was announced that Important State Highways connecting District and Taluk headquarters will be

widened to 4-lane to a length of 2200km and 6700 km will be widened to 2-lane in the next 10 years based on the traffic intensity under “Chief Minister Road Development Program”.

“Chief Minister Road Development Program” (CMRDP) is a newly launched pioneer program for widening the road based on connectivity and traffic intensity.

In the year 2021-22, widening of 255.02 km important State Highways (SH) to four lane has been taken up at a cost of **Rs.2123.64 Crore** and widening of **639.10 km** of important Major District Roads (MDR) and Other District Roads (ODR) from intermediate lane to double lane at a cost of **Rs.865.35 Crore** has been taken up under the funds of Comprehensive Road Infrastructure Development Program (CRIDP - 2021-22) based on the traffic intensity and connectivity. These works are in different stage of implementation.

Some of the major works of widening to four lane taken up under CMRDP are listed below:

1. In Villupuram District, widening from Two Lane to Four Lane with Paved shoulder at km 0/0-4/0 and Widening from Two Lane to Four Lane with Paved shoulder and Strengthening at km 4/0-16/0 of Tindivanam - Marakkanam road (SH 134) including Widening and Reconstruction of CD works, Construction of RCC drain, Center Median, Providing Bus Lay bye, Paver block and Construction of Retaining wall at a cost of Rs.160.00Crore.
2. In Thiruvannamalai District, widening from Two Lane to Four Lane and Improvements at km 84/7 - 104/2 of Cuddalore - Chittoor Road including Construction of Centre Median, Drain, Retaining Wall, Reconstruction and Widening of Culverts, Construction of Minor Bridges, Junction Improvements and Providing Paver Blocks at a cost of Rs.140.00Crore.
3. In Kancheepuram District, widening from Two Lane to Four Lane and Improvements at km 11/6 - 20/0 of

Tambaram - Mudichur - Sriperumbudur Road including construction of minor bridge at km 11/8 , widening of minor bridge at 15/4 ,widening of major bridge at km 16/6 and CD works at a cost of Rs.108.50 Crore.

4. In Trichy District, widening from ML to Four Lane with Paved shoulder using Paver Block and Strengthening at km 325/6 - 333/0 of Chennai - Trichy - Dindigul road including Reconstruction of Box culverts, Widening of Culverts, Construction of Retaining wall, Construction of Drain and Construction of Centre median at a cost of Rs.74.80 Crore.
5. In Madurai District, widening from Four Lane to Four Lane with Paved Shoulders and Improvements at km 116/0 - 121/0 of Trichy - Viralimalai - Melur - Madurai -Aruppukkottai-Tuticorin road (Abandoned stretch of NH 45B - Madurai Town Reach) including Reconstruction of Culverts/ Construction of Culverts, footpath cum drain, centre median,

Junction Improvements and Bus Layby
at a cost of Rs.50.60 Crore.

Some of the major works of widening to two lane taken up under CMRDP are listed below:

1. In Namakkal District, widening from Intermediate Lane to Two Lane and Strengthening at km 2/8 - 4/6 of Vadugapatty - Alanganatham road including Reconstruction of pipe culvert into Box culvert at Km 3/10 and Construction of Retaining Wall at Km 2/8-4/6(Tank Bund) at a cost of 15.50Crore.
2. In Pudukottai District, Widening from Intermediate Lane to Two Lane and Improvements at km 38/0 - 40/6, 41/0-42/4, 44/0-45/6 of Pudukkottai - Embal road including reconstruction of culvert at km 38/2, 39/4, 40/6, 41/2 (i), 41/2(ii), 41/4, 41/6, 45/2, 45/6 44/2, 44/6(i), 44/6(ii) ,44/10 Construction of Retaining wall at Km 38/8 and 38/10 at a cost of 7.23Crore.

3. In Tenkasi District, widening from Intermediate Lane to Two Lane and Improvements at km 0/8-4/8, 6/4-7/4, 8/0-9/0 of Sankarankoil - Thiruveenkadam road including construction of retaining wall, Paver Block, construction of Drain and CD works at a cost of Rs.6.86 Crore.
4. In Coimbatore District, Widening from Intermediate Lane to Two Lane and Improvements at km 4/4 - 7/0 of Madukkarai Chettipalayam Road including Construction of CD works at km 6/2 & 6/6, Construction of Retaining wall at 4/6, 6/6-7/0 at a cost of Rs.6.78Crore.
5. In Cuddalore District, Widening from Intermediate Lane to Two Lane and Strengthening at km 1/4 - 2/4 & 18/0-22/2 of Thittagudi-Sirupakam road (via) Avatti, Ma.Pudaiyur road including CD works at a cost of Rs.6.45Crore.

8.1.2 Upgradation of Bed level causeways into High Level Bridges

During flood time, water overflows on the causeways for a few days, which affects the movement of traffic and people nearby are disconnected. This affects the movement of important goods, transport through villages, marketing centers and day to day activities of people. School going children are affected.

During the Budget 2021-22 session, **it was announced that “in lieu of existing Causeways, High level Bridges will be constructed in identified 1281 locations”**. In this financial year, 648 causeways with inundation period for more than 3 days and Linear Water Way less than 30m involving minor structures were taken up at a cost of Rs.551.23 Crore under CRIDP 2021-22 scheme. These works are in progress and remaining causeways will be taken up in a phased manner.

8.1.3 Development works in Urban areas

To reduce the traffic congestion in urban areas, **during the Budget 2021-22 session it was announced that** "State Highways and Major district Roads in Corporation, Municipalities, and Town Panchayat areas will be widened as four lane with paved shoulders based on the availability of land. If there is no land available for four lane, then the road will be widened up to Right Of Way (ROW). In order to avoid stagnation of rain water, drains with footpath will be constructed.

Government have issued Order for allocating 10% of CRIDP fund for development works in Urban areas. In 2021-22, an amount of **Rs.412.690 Crore has been** sanctioned for Improvement of roads to a length of **96.267 Km** in Urban Areas. These works are in progress.

8.2 IMPORTANT SCHEMES

8.2.1 Comprehensive Road Infrastructure Development Program (CRIDP)

The Comprehensive Road Infrastructure Development Program is a flagship scheme of

Government of Tamil Nadu whereby large scale of works for widening and improvements of roads are being taken up.

Under CRIDP, works like widening, strengthening, improving the riding condition, construction of bypasses, bridges, culverts, road safety works etc., are being undertaken in a comprehensive and holistic manner.

8.2.1.1 CRIDP- State Highways

Widening and improvements of 362.32 km length of roads and construction of 35 bridges/ culverts were sanctioned in 2021-22 and the works are in progress at a cost of Rs.675.69 Crore.

In addition, widening/ improvements to 398.94 km length of roads and construction of 82 bridges / culverts were also taken up as spill-over works at a cost of Rs 1573.59 Crore.

Widening / improvements to 313 km length of roads and 73 bridges / Culverts have been completed at an expenditure of Rs 1027.16 Crore.

Budget allotment of Rs. 1650 Crore has been provided for the year 2022-23.

8.2.1.2 CRIDP - Major District Roads

Widening and improvements to 266.91km length of roads, construction of 58 bridges/ culverts sanctioned in 2021-22 are in progress at a cost of Rs.326.16 Crore.

In addition, widening/ improvements to 629.27 km length of roads and construction of 107 bridges/ culverts were also taken up as spill-over works at a cost of Rs 1050.16 Crore.

Widening / improvements to 457 km length of roads and 90 bridges / Culverts have been completed at an expenditure of Rs. 696.50 Crore.

Budget allotment of Rs. 1100 Crore has been provided for the year 2022-23.

8.2.1.3 CRIDP - Other District Roads

Widening and improvements to 1133.61 km length of roads, construction of 159 bridges/ culverts sanctioned in 2021-22 are in progress at a cost of Rs.1146.37 Crore.

In addition, widening/ improvements to 1274.27 km length of roads and construction of 454 bridges / culverts were also taken up as spill-over works at a cost of Rs.1679.88 Crore.

Widening / improvements to 926 km length of roads and 404 bridges / Culverts have been completed at an expenditure of Rs. 1117.57 Crore.

Budget allotment of Rs. 1450.00 Crore has been provided for the year 2022-23.

8.2.1.4 CRIDP - Other District Roads - Special Component Plan

Widening and improvements to 140.39 km length of roads, sanctioned in 2021-22 are in progress at a cost of Rs.146.47 Crore.

In addition, widening/ improvements to 167.39 km length of roads and construction of 6 bridges / culverts were also taken up as spill-over works at a cost of Rs 183.00 Crore.

Widening / improvements to 129 km length of roads and 4 bridges / Culverts have been completed at an expenditure of Rs 94.34 Crore.

Budget allotment of Rs.197 Crore has been provided for the year 2022-23.

8.2.1.5 Improvements of Riding Quality Program (IRQP)

Widening and improvements to 2386.60 km length of roads, were sanctioned in 2021-22 and works are in progress at a cost of Rs.768.91 Crore.

In addition, widening/ improvements to 1806 km length of roads were also taken up as spill-over works at a cost of Rs.619.63 Crore.

Road works to a length of 1562 km were completed at an expenditure of Rs. 427.98 Crore.

Budget allotment of Rs.550 Crore has been provided for the year 2022-23.

8.2.2 Extended Greater Chennai Corporation Area Development

Development of road infrastructure in extended Chennai Corporation area is carried out in phased manner. 20 numbers of spill works at a cost of Rs.367.31 Crore were taken up in Chennai and Thiruvallur Divisions. Out of which 10 works

have been completed, remaining 10 works are in progress.

8.2.3 Upgradation of Chennai Core Road Network

Considering the urbanization and the Industrial Development in and around Chennai city, improvement of roads in Core Road Network Phase-II, 9 works to a length of 40.25 Km taken up under CRIDP at a cost of Rs. 165.06 Crore and works are in progress. Out of this, one work has been completed remaining 8 works are in progress.

8.2.4 Formation of Bypasses

- Works under progress -3
- Pre construction stage - 3
- Land Acquisition – 15
- DPR preparation-23

8.2.5 Construction of Grade Separators

- Works under progress -1
- Land Acquisition - 1

- DPR preparation-1

8.2.6 Elevated Corridor

- DPR preparation-6

8.2.7 High Level Bridges

- Works under progress -2
- DPR preparation - 1

8.2.8 Road Safety Works

In 2021-22, 401 numbers of works have been sanctioned at a cost of Rs.200.00 Crore for Road Safety under CRIDP scheme. These works are in various stage of progress.

under Road Safety Fund 99 numbers of works to a tune of Rs.100 Crore has been sanctioned and these works are in various stage of progress.

Budget allotment of Rs. 231.00 Crore has been provided for the year 2022-23.

8.2.9 Flood Restoration Works

Spill over works like construction of new storm water drains and culverts to prevent flooding to a

value of Rs. 352.41 crore have been taken up and works are in progress.

During 2021-22, Permanent flood mitigation works such as construction of additional bridges, additional vent ways, Minor CD works, Replacing Pipe Culverts, Construction of Drains/ Macro Drains, Reconstruction of Damaged protective works and capacity augmentation such as purchasing new machineries, pump sets and generators were sanctioned for a value of Rs. 392.16 Crore and being implemented.

During the North – East Monsoon 2021, Rs.17 Crore has been sanctioned under State Disaster Relief Fund for temporary restoration of damages caused in road surface and structures.

8.3 MAINTENANCE / RENEWAL WORKS

Maintenanace and renewal of 2434 km length of roads have been completed at an expenditure of Rs 694.63 Crore.

Budget allotment of Rs 765.36 Crore has been provided for 2022-23.

8.4 OVERALL EXPENDITURE FOR THE YEAR 2021-22 AND BUDGET ALLOTMENT FOR THE YEAR 2022-23

Overall expenditure of Rs 5437.05 Crore has been incurred during 2021-22.

Budget allotment of Rs. 6728.06 Crore has been provided for the year 2022-23.



Hon'ble Chief Minister inspected the Pre - monsoon preventive measures at Pallikaranai on 25.09.2021

9. NATIONAL HIGHWAYS

The Tamil Nadu National Highways wing is headed by a Chief Engineer and has 4 circles and 13 Divisions. The quality control and Road safety of NH works are also monitored separately by one Superintending engineer with 4 Quality Control Divisions.

The National Highways in Tamil Nadu traverse a total length of 6606 km. These roads are developed and maintained with the funds allocated by the Ministry of Road Transport and Highways (MoRT&H). 1511 km length of roads are being maintained by the State NH wing and the remaining 5095 km length of roads are being maintained by NHA. The functions of State NH wing are as follows:

- The augmentation of National Highways by widening and strengthening.
- Construction of Bridges / Flyovers, RoBs.
- Flood Damage Repair works

9.1 WORKS UNDER ANNUAL PLAN

Annual Plan works are carried out with the Government of India funds allocated every year under this scheme.

9.1.1 Plan Works - National Highways (Original works)

During 2021-22, 53 road works and 18 Bridge works for a length of 267.35 Km at a cost of Rs.2167.03 Crore, have been taken-up as spill-over works. During this year 170.85 km of Road works and 3 Bridge works were completed and balance works are in progress.

In the financial year 2021-22 works have been sanctioned for Rs.2791.26 Crore.

ANNUAL PLAN 2021-22 SANCTIONED WORKS

Category of Work	No. of Work	Length in Km	Cost Rs.in Crore
Bypass - LA (Vellore, Vetavalam)	2	25.50	145.54
Bypass - Construction (Thiruvaiyaru, Bagalur, Madurai Achambathu - Viratipathu, Gudiyatham)	4	22.08	741.32
Widening to Four Lane	6	86.03	545.45
Widening to Two Lane with Paved Shoulder	6	97.09	405.52
Grade separator	3	-	282.21
Vehicular Under Pass	2	-	43.39
Road Over Bridge	1	-	43.39
High Level Bridge	3	-	29.74
Minor bridges/culverts	4	-	28.03
Strengthening of Road	14	251.88	426.13
Road Safety works	9	5.80	100.54
Total	54	488.38	2791.26

In addition 33 DPR works have been sanctioned in the Annual Plan 2021-22.

For works sanctioned in the Financial year 2021-22, 14.30 Km length of road works have been completed.

In Financial year 2021-22 an expenditure of Rs.1150.89 Crore has been incurred under Annual Plan.

9.1.2 Road Safety Works

196 locations are identified as black spots in the National Highway entrusted to State NH Wing.

Black spots Details

Description	No of Black spots
Total Black Spots	196
Permanent Rectification Completed	92
Permanent Rectification Work in progress	48
Proposals in Tender/DPR Stage	39
Proposal sent to NHAI	17

9.2 CENTRALLY SPONSORED SCHEMES

CENTRAL ROAD AND INFRASTRUCTURE FUND (CRIF)

During 2021-22, 15 road works of 66.72 km length and 5 Nos. of Bridge works at a cost of Rs 476.02 Crore were taken up as spill over works. Out of this, 10 road works of 47.57 Km length and 4 Bridge works have been completed and the balance works are in progress.

CRIF Proposal for the year 2021-22 comprising 23 Road works of 102.93 Km and 24 Bridges for Rs 582.30 Crore has been sent to Ministry for approval.

An Expenditure of Rs.301.00 Crore incurred during the financial year 2021-22 under this scheme. A Budget provision of Rs.415.00 Crore has been made for the financial year 2022-23 by the State Government under this scheme.

9.3 PRADHAN MANTRI GRAM SADAK YOJANA (PMGSY)

PMGSY was launched by the GOI for upgrading rural roads providing connectivity to unconnected habitations as part of poverty reduction strategy.

The GoI provides funds for upgrading “Other District Roads” under this scheme in which the maintenance fund is allocated from Government of Tamil Nadu.

The maintenance expenditure in the financial year 2021-22 is Rs.2.48 Crore under this scheme.

A Budget provision of Rs.1.77 Crore has been made for the financial year 2022-23 towards maintenance by the State Government under this scheme.

9.4 IMPROVEMENT OF NHAI ROADS BY THE STATE NH WING AS DEPOSIT WORK

The following works have been taken up under deposit work from NHAI.

Name of Work	Length in km	Cost Rs. In Crore	Work Status
Widening of NH-45 from 4 Lane to 8 Lane between Vandalur to Chettipunniyam Mahindra City	18.60	275.17	5.3Km work completed and balance works are in progress.
Widening of NH-4 from 4 Lane to 6	23.20	428.95	Cross drainage

Lane between Maduravoyal Bypass to Sriperumpudur Toll Gate			works, Road side drain and Widening work under progress.
Widening of NH 544 H Thoppur – Mettur – Bhavani – Erode Road to 2 Lane with Paved Shoulders	76.75	183.47	To be taken up

9.5 SETU BHARATAM SCHEME- CONSTRUCTION OF ROAD OVER BRIDGES (ROB)/ROAD UNDER BRIDGES (RUB)

Ministry of Road Transport and Highways aims at replacing all Level crossings in National Highways with construction of ROB/RUBs.

6 ROB's LC.No -17 Chekkanurani (Madurai), LC.No -68 Theni (Theni), LC.No -85 Bodinayakanur (Theni), LC.No - 109A Kannamangalam (Vellore), LC.No - 86 Ettivadi (Thiruvannamalai), LC.No -503 Tenkasi (Tenkasi) at a cost of Rs.402.70 Crore has been sanctioned under Annual Plan by MoRTH. Out of these, 5 ROB

works are in progress and 1 ROB Land acquisition is in progress. This work is to be taken up early.

9.6 UPGRADATION AS NATIONAL HIGHWAYS

8 Nos. of State Highway of 500 km length have been declared "In – Principle" NH by the MoRTH in 2018. Ministry has been requested for issuance of notification as National Highways.

9.7 PROJECTS EXECUTED BY NATIONAL HIGHWAYS AUTHORITY OF INDIA (NHAI)

NHAI is implementing National Highways Development Programme (NHDP) / Bharatmala Pariyojana, Road and bridge infrastructure projects for port connectivity and other special schemes. NHAI programmes specially focus on development, maintenance and management of NHs. Since its inception, 3051 Km of roads have been upgraded to six/four/two-lane with paved shoulder configuration in the State at a cost of Rs.22495 Crore.

NHAI WORKS UNDER VARIOUS STAGES

No. of Works	Length in Km	Cost Rs. in Crore	Stage
31	1381.00	31670.00	665.86Km completed and remaining works in progress
7	191.06	9126.85	Work awarded and appointed date to be fixed
7	183.26	6192.00	Works awarded in FY 2021-22
6	174.12	3361.00	Bids invited
19	1225.00	-	DPR stage

9.8 SUPPORT OF STATE TO NHAI

The State extends co-operation and assistance to NHAI in the pre construction activities of Land acquisition, different permissions and shifting of utilities. Many long pending issues have been solved by conducting frequent meetings at the level of Minister, Chief Secretary and Principal Secretary. Hence, the progress of NHAI works are gaining momentum.

9.9 BHARATMALA PARIYOJANA

Economic Corridors, Inter-corridor and Feeder routes, National Corridors Efficiency Improvement, Border and International Connectivity roads, Coastal and Port Connectivity roads, Greenfield Expressways has been identified for development under Bharatmala Pariyojana. Preparation of DPR / Feasibility Report for 48 projects for a total length of 2785 Km is in progress under Bharatmala Pariyojana (including the residual works of NHDP taken-up under Bharatmala Pariyojana). These projects will be taken-up for implementation on completion of DPR/LA process and other pre-construction activities in a phased manner.

9.10 ELIMINATION OF ACCIDENT BLACK SPOTS

Identified Black spots in Tami Nadu based on the accidents occurred between 2015-2018 on NH stretches under NHA I

Description	No of Black spots
Total Black Spots/ Accident zones	495*
Permanent Rectification Completed as part of development of project	184
Rectification Work under implementation	120
Detailed study for Permanent Rectification	191

*Temporary rectification completed in all locations

9.11 IMPLEMENTATION OF 100% ELECTRONIC TOLL COLLECTION (ETC) AT THE TOLL PLAZAS

In compliance to the directions of the Ministry of Road Transport and Highways, 100% user-fee collection through FASTag (Electronic Toll Collection (ETC)) has been implemented at all 48 Toll Plazas on National Highways in the State. All 428 lanes in these 48 Plazas are ETC enabled for

seamless travel. MoRTH has mandated 100% ETC for transactions in all plazas with effect from 15.02.2021 and 95% ETC penetration has been achieved at present.

10. NABARD AND RURAL ROADS

NABARD and Rural Roads wing is headed by a Chief Engineer and functioning with 4 circles and 14 divisions.

This wing implements the following projects sanctioned under NABARD scheme and State Fund.

- Construction of High Level River Bridges.
- Upgradation of Panchayat Union / Panchayat roads to Other District Road standard
- Formation of Bypasses.
- Construction of Road Over Bridges / Road under Bridges.

10.1 CONSTRUCTION OF RIVER BRIDGES UNDER NABARD LOAN ASSISTANCE (RIDF)

Proposal for the Construction / Reconstruction of 73 Bridges at a cost of Rs.414.06 Crore has been sent to NABARD for concurrence.

Under RIDF scheme, spill over works of 182 bridges and newly sanctioned 93 bridge works have been taken up for execution at an outlay of Rs.1108.13 Crore. Of this, 73 bridges have been completed during 2021-22 at an expenditure of Rs.189.44 Crore. The remaining 202 bridge works are in progress under various stages of implementation.

For 2022-23, a Budget provision of Rs.516.11 Crore has been made for this scheme.

10.2 CONSTRUCTION OF RIVER BRIDGES UNDER STATE FUND

Under this scheme, spill over works of 5 bridges have been taken up for execution at an outlay of Rs.33.65 Crore. Of this, 2 bridges have been completed during 2021-22 at an expenditure of Rs.10.41 Crore. The remaining 3 bridge works are in progress at various stages.

For 2022-23, a Budget provision of Rs.16.50 Crore has been made for this scheme.

10.3 UPGRADATION OF PANCHAYAT UNION / PANCHAYAT ROADS

During the budget Session 2021-22, it was announced that, **“10,000 Km of Panchayat Union / Panchayat Roads will be upgraded to Other District Road standard in a phased manner. 2000 Km of Panchayat Union / Panchayat Roads will be upgraded in this year”**. In this regard, In principle order accorded for upgradation of 10,000 Km of Panchayat Union / Panchayat Roads to Other District Road standard.

Rural Development and Panchayat Raj Department handed over 3435.17 Km of Panchayat Union /panchayat Roads for upgradation to Highways Department. Hence, 2000.31 Km are being taken up for upgradation at a cost of 2178.01 Crore in first phase.

A spill over of 2486.04 Km length of Panchayat Union / Panchayat Roads at an outlay cost of Rs.2512.97 Crore has been taken up for upgradation to ODR standard. Of which, 2140.84 Km length of roads have been completed during 2021-22 at an expenditure of

Rs.1949.27 Crore. The remaining works are in progress at various stages.

For 2022-23, a Budget provision of Rs.1032.00 Crore has been made for this scheme.

10.4 BYPASSES UNDER STATE FUND

Land Acquisition for the formation of 12 bypasses at a cost of Rs.192.12 Crore is being carried out. Land Acquisition for one work namely Bhavani Bypass has been completed. For remaining 11 Bypasses, Land Acquisition works are in progress at various stages.

For another Bypass namely Koothanallur Bypass, DPR preparation is in progress.

For 2022-23, a Budget provision of Rs.112.29 Crores has been allotted for this scheme.

10.5 PREPARATION OF DETAILED PROJECT REPORT (DPR) UNDER STATE FUND

Detailed Project Report preparation for the formation of link road of 3.58 Km connecting Akkaraipettai with Karuvelankadai villages in Nagapattinam District is in progress at a cost of Rs.35 lakhs.

10.6 ROAD OVER BRIDGES / ROAD UNDER BRIDGES IN LIEU OF RAILWAY LEVEL CROSSINGS

10 Road Over Bridges and 1 Road Under Bridge in lieu of Railway level crossings have been taken up as spillover works for the year 2021-22 at a cost of Rs. 165.55 Crore.

During the year 2021-22, one ROB (LC-7, Annanur) has been completed with an expenditure of Rs. 58.02 Crore.

10.7 OVERALL EXPENDITURE FOR THE YEAR 2021-22 AND BUDGET ALLOTMENT FOR THE YEAR 2022-23

Overall expenditure of Rs. 2315.83 Crore has been incurred during 2021-22.

Budget allotment of Rs. 1676.91 Crore has been provided for the year 2022-23.

11. PROJECTS

Projects wing is headed by a Chief Engineer and functioning with 4 Circles and 10 Divisions.

Construction of Road Over Bridge/ Road Under Bridges (ROB/ RUBs) in lieu of existing Level Crossings in coordination with Railways under Railway Works Programme on 50:50 cost sharing basis, construction of High Level Bridges (HLB), Reconstruction of narrow and dilapidated bridges, construction of Grade Separators, construction of Elevated Highways, Formation of Bypasses and Ring roads are the important activities of the Projects wing.

11.1 CONSTRUCTION OF ROB/ RUB IN COORDINATION WITH RAILWAYS

89 spillover ROB/ RUB works were taken up in coordination with Railways during 2021-22.

- 44 construction works
- 32 works sanctioned for both Land Acquisition and Detailed Project Report

- 13 works sanctioned only for Detailed Project Report

Out of 44 works taken up for construction, 9 works were completed at a cost of Rs. 287.47 Crore, 15 works are in progress at a cost of Rs. 505.94 Crore and remaining 20 works are in various stages of implementation at a cost of Rs. 562.55 crore.

Out of 32 works sanctioned for both Detailed Project Report and Land Acquisition, DPR has been completed for 10 works and Land Acquisition is in process at a cost of Rs.121.46 Crore. For remaining 22 works, both DPR and Land Acquisition works are in progress at a cost of Rs.272.16 crore.

Out of 13 works sanctioned only for Detailed Project Report, for 2 works DPR has been completed at a cost of Rs. 0.43 Crore and remaining 11 works are in progress at a cost of Rs. 3.60 crore.

During 2021-22, the Government have accorded Administrative Sanction at a cost of

Rs. 0.32 Crore for preparation of Detailed Project Report for 1 Road Over Bridge.

Works completed during 2021-22

1. ROB at LC.No 21, Kadambathur in Thiruvallur District at a cost of Rs. 25.74 Crore.
2. ROB at LC.No 36, Urappakkam in Chengalpet District at a cost of Rs. 34.50 Crore.
3. ROB at LC.No 29, Ponnerikkarai in Kancheepuram District at a cost of Rs. 59.63 Crore.
4. ROB at LC.No 88, Olakkur in Villupuram District at a cost of Rs. 20.96 Crore.
5. ROB at LC.No 144, Madapattu in Villupuram District at a cost of Rs. 22.63 Crore.
6. ROB at LC.No 55, Thiruvannamalai at a cost of Rs. 38.74 Crore.
7. ROB at LC.No 59, Virinjipuram in Vellore District at a cost of Rs. 22.27 Crore.

8. ROB at LC.No 122, Pollachi in Coimbatore District at a cost of Rs. 48.48 Crore.

9. RUB at LC.No 82B, Valliyur in Tirunelveli District at a cost of Rs. 14.52 Crore.

11.2 STATE FUNDED SCHEMES

Special Road Infrastructure

Under the State Funded Schemes, 118 spillover works were taken up in 2021-2022.

- 31 works sanctioned for Construction
 - 4 works completed at a cost of Rs. 163.09 Crore
 - 21 works in progress at a cost of Rs. 1910.73 Crore
 - 6 works in various stages of implementation at a cost of Rs. 189.40 crore
- 17 works sanctioned for both LA and DPR

- DPR has been completed for 5 works and LA is in process at a cost of Rs.25.45 Crore
- 12 works, both DPR and LA works are in progress at a cost of Rs.275.73 crore.
- 70 works sanctioned only for DPR
 - 18 DPR works completed at a cost of Rs. 1.12 Crore
 - DPR is in progress for 52 works at a cost of Rs. 11.51 crore

During 2021-22, preparation of Detailed Project Report for 2 Bypasses, 1 Elevated Corridor, 2 Grade Separator and 2 Road Over Bridges taken up at a cost of Rs. 4.70 Crore and works are in progress.

Works completed during 2021-22:

1. Construction of High-Level Bridge across the river Coleroon at Kallanai connecting Thiruvanaikoil road and Grand Anaicut road in Thanjavur District at a cost of Rs. 90.96 crore.

2. Construction of High-Level bridge across the River Cheyyar at km 0/8 of Thandarai - Eraiyur Road in Thiruvannamalai District at a cost of Rs. 17.04 crore.
3. Construction of Grade Separator at km 3/2 of Madurai - Thondi road and km 2/4 of Madurai Ring Road junction in Madurai District at a cost of Rs. 53.12 Crore.
4. Improvement of Jawans Bhavan Road Km.0/0-1/8 in Cuddalore District at a cost of Rs. 1.97 crore.

11.3 TAMIL NADU INFRASTRUCTURE DEVELOPMENT BOARD (TNIDB) - PROJECTS PREPARATION FUND

Preparation of Detailed Project Report at a cost Rs. 6.88 Crore funded by Tamil Nadu Infrastructure Development Board - Project Preparation Fund for 14 ROB/ RUBs, 9 HLBs and 2 Bypass is in progress.

11.4 OVERALL EXPENDITURE FOR THE YEAR 2021-22 AND BUDGET ALLOTMENT FOR THE YEAR 2022-23

Overall expenditure of Rs. 503.76 Crore has been incurred during 2021-22.

Budget allotment of Rs.1394.58 Crore has been provided for the year 2022-23.

12. METRO

Metro wing is headed by a Chief Engineer and functioning with one Circle and five Divisions. It was exclusively established to execute the projects for the improvement of road infrastructure facilities in and around Chennai Metropolitan Area (CMA). The projects identified in the Comprehensive Traffic and Transportation Study (CTTS) and second master plan developed by Chennai Metropolitan Development Authority (CMDA) are taken up under the Chennai Metropolitan Development Plan (CMDP) Scheme.

Grade-separators, High level bridges, Widening of roads/ bridges, Formation of new link roads, Bypasses, Foot Over Bridges (FOB) with Escalators are taken up.

Construction/Widening of Road Over Bridges/Road under Bridges within the CMA, under Railway Works Programme are also taken up.

12.1 STATE FUNDED SCHEMES

Chennai Metropolitan Development Plan (CMDP)

12.1.1 Grade Separators

Grade separators are long term solutions to avoid vehicular conflicts thereby reducing road accidents and ensure free flow of traffic at major road intersections

During 2021-22,

- Grade Separator work at Koyambedu junction at a cost of Rs.93.50 crore and Taramani to Velachery Bypass arm in the Grade Separator work at Velachery junction at a cost of Rs.67.00 crore were completed and opened to public.
- In the Grade Separator work at Medavakkam, Tambaram – Velachery Arm at a cost of Rs.95.21 crore and in the Grade Separator work at Velachery junction, Velachery Bypass to Tambaram arm at a cost of Rs.78.49 crore are in progress .

- Administrative sanction for Rs.46.54 Crore has been accorded for the construction of the Grade Separator at Madhya Kailash junction.
- For Grade Separator on Mount-Poonamallee-Avadi road from MIOT Hospital to Mugalivakkam and Vehicular Under Pass at Madipakkam, sanction has been accorded for Rs.314.48 Crore and Rs.45.50 Crore respectively. These works are being executed by Chennai Metro Rail Limited (CMRL) integrated with Metro Rail projects.
- Land acquisition is in progress for Grade Separator at Thiruvanmiyur junction.
- Further, 11 Grade Separators are in Detailed Project Report Stage and simultaneously Land acquisition is in progress for 10 works for an amount of Rs. 983.32 Crore.

12.1.2 River Bridges

- Two river bridges at a cost of Rs.77.01 Crore are in progress across

Buckingham canal in Thiruvotriyur & across Coovam river in Paruthipattu.

- Land Acquisition is in progress for construction of a bridge across Coovam river at Nolambur for Rs.36.00 Crore.
- Land acquisition and Detailed Project Report is in progress for construction of Bridge across Coovam river at Padikuppam.

12.1.3 Formation Of New Link / Widening Of Road Works

Widening of roads to increase the capacity and formation of bypass and new link roads are essential to cater the exponential increase in traffic.

- 3 road works for an amount of Rs. 72.54 Crore at Neelangarai, Palavakkam in East Coast Road and Nedungundram in Tambaram Eastern bypass are in progress.
- Land Acquisition is in progress for formation of road in Puthur stretch in Tambaram Eastern Bypass.

- Administrative sanction for Rs. 17.16 crore has been accorded for widening of East Coast Road to six lane in Kottivakkam.
- Land acquisition for the balance stretches in the above three road works is in progress for an amount of Rs. 995.50 Crore.

12.1.4 Pedestrian Infrastructure Facilities - Foot Over Bridges With Escalators

Foot Over Bridges with escalators are taken up, for safe pedestrian crossing and ensuring uninterrupted flow of traffic.

- Construction in railway portion is under progress in the work of construction of Foot Over Bridge with escalator connecting the Tambaram Railway station & bus stand in GST Road, Tambaram.
- Detailed Project Report is under preparation for 2 Foot Over Bridge works near Kendriya Vidyalaya School,

Thirumangalam and near DAV & Velammal School, Mugappair.

- Detailed Project Report and Land acquisition are in progress for the work of providing Foot Over Bridge with Escalator for connecting East Tambaram and West Tambaram.

12.1.5 Works In Preparation Of Detailed Feasibility Report Stage

Preparation of Detailed Feasibility Report for 9 works for an amount of Rs.1.96 Crore is in progress for decongesting the traffic in major roads within Chennai Metropolitan Area.

12.2 CONSTRUCTION OF ROB/ RUB IN COORDINATION WITH RAILWAYS

ROB / RUBs within Chennai Metropolitan Area

- Road Over Bridge at Perungalathur and Limited Use Subway at Chrompet Radha Nagar at a cost of Rs.263.36 Crore are in progress.

- For Road Over Bridge at LC 14, Veppampattu, Land Acquisition is in progress.
- For 3 Road Under Bridges at LC 22 Tirusulam, LC 4 Thiruvotriyur and LC 6 Wimco Nagar, works in Highways portion will be taken up after the completion of Railway portion.
- Land acquisition is in progress for Road Over Bridge at LC 16 Minjur.
- Widening of the existing Road Over Bridge at Avadi and Construction of Road Over Bridge at Ambattur near TI cycles factory have been sponsored for inclusion in Railway Works Programme. Detailed Project Report and Land acquisition is in progress for these works.

12.3 OVERALL EXPENDITURE FOR THE YEAR 2021-22 AND BUDGET ALLOTMENT FOR THE YEAR 2022-23

Overall expenditure of Rs. 677.63 Crore has been incurred during 2021-22.

Budget allotment of Rs.857.37 Crore has been provided for the year 2022-23.



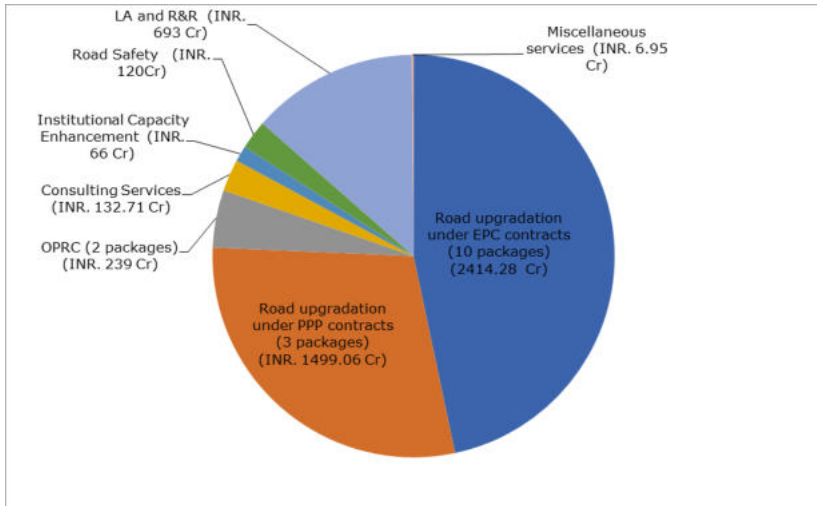
Hon'ble Chief Minister inaugurated
Taramani - Velachery Grade Separator on 01.11.2021

13. TAMIL NADU ROAD SECTOR PROJECT-II

Government of Tamil Nadu has formed TNRSP II with World Bank loan assistance for upgrading important Road Corridors with High Density Traffic. Tamil Nadu Road Sector Project-II is headed by a Project Director and functioning with a Chief Engineer, 2 Circles and 8 Divisions and 3 Special District Revenue Officers.

13.1 UPGRADING WORKS

Works have been sanctioned and taken up for a total length of 1170 Km in TNRSP II with World Bank loan assistance of US\$300 Million (reimbursed as Rs. 2122.90 Crore) at a total cost of Rs.5171 Crore which includes Land Acquisition and Rehabilitation & Resettlement cost.



13.1.1 Completed Works

Under Engineering, Procurement and Construction mode (EPC) 10 packages to a length of 427.967 Km at a cost of Rs.1704.91 Crore were completed and they are under 5 years maintenance period.

Under Public Private Partnership mode (PPP) Four laning of Oddanchatram– Dharapuram– Avinashipalayam Road (SH 37) of 70.2 Km, at a cost of Rs. 713.45 Crore has been completed and now it is under 8 years maintenance period.

The roads improved under TNRSP I viz. Arcot - Thiruvarur Road and Nagapattinam-Tuticorin Road for a total length of 581.493 Km have been taken up under Output and Performance based Road Contracts (OPRC) mode for five years maintenance at a cost of Rs.220.07cr and the works were completed.

13.1.2 Works in Progress

Under EPC mode 6 packages are in various stages of progress.

List of ongoing Works

EPC No	Name of the Road	Length in Km	Contract Price in Crore
EPC 11	Four Laning of Omalur to Mecheri Section of SH 222 From Km 1/150 to Km 14/300	13.170	144.64
EPC 12	Strengthening and Widening of Malliyakarai – Attur road of SH-30 from Km.81/125 to 91/200	9.884	95.14

EPC 13	Four Laning of Chithode to Erode Section of SH 15 from km 153/500 to 161/625	8.125	104.70
EPC 14	Strengthening and Widening (Four Lane) of Tirunelveli – Sengottai – Kollam Road of SH-39 from Km 5/000 to Km 27/700 (package I)	22.700	176.58
EPC 15	Strengthening and Widening (Four Lane) of Tirunelveli – Sengottai – Kollam Road (SH 39) from Km 27/700 to Km 50/600 (packageII)	22.900	254.13
EPC 16	Four Laning of Gobi - Erode Section of SH- 15 from Km 123/000 to Km 153/600	30.600	272.53
	Total	107.379	1047.72

13.2 DETAILED PROJECT REPORT BY USING TAMIL NADU INFRASTRUCTURE DEVELOPMENT BOARD (TNIDB) FUND:

An amount of Rs. 132.76 Crore has been sanctioned for Preparation of Detailed Project Reports for a length of 3319 Km roads under TNIDB fund. Out of this, 28 number of roads for a length of 987 Km have been taken up in first phase for DPR Preparation by engaging Consultants in 5 packages.

13.3 INSTITUTIONAL CAPACITY ENHANCEMENT AND ROAD SAFETY (ICERS)

13.3.1 Institutional Capacity Enhancement (ICE)

Institutional Capacity Enhancement works are taken up at a cost of Rs.66.00 Crore under World Bank Funded TNRSP II. Under this component the following works are in progress.

- Updation of Highway Manual (I, II, III & IV).
- Procurement of laptops and desktops through Electronics Corporation of Tamil Nadu (ELCOT).

- Procurement of Additional facilities for Training Centre through Highway Research Station (HRS).

13.3.2 Road Safety (RS)

Road Safety component works are taken-up at a cost of Rs.120.00 Crore under World Bank Funded TNRSP II.

13.4 LAND ACQUISITION (LA), RESETTLEMENT AND REHABILITATION (R&R) ACTIVITIES

The Resettlement Policy Framework (RPF), prepared in line with the new 'Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement-RFCTLARR Act, 2013 and the World Bank's Operational guidelines have been approved by the Government for giving compensation and resettlement of the Project Affected People(PAP).

An extent of 177.19 Ha of patta lands have been acquired as per the provisions of Tamil Nadu Highways Act-2001 for the Project by paying compensation in line with the 'Right to Fair Compensation and Transparency in Land

Acquisition, Rehabilitation and Resettlement Act, 2013.

As per the Resettlement Policy Framework, an amount of Rs. 53.17 Crore was paid to 5272 PAPs consisting of Titleholders, Non Titleholders, kiosks towards Rehabilitation and Resettlement Assistance and for reconstruction of 298 affected Common Property Resources (CPR) upto **31.03.2022**.

13.5 OVERALL EXPENDITURE FOR THE YEAR 2021-22 AND BUDGET ALLOTMENT FOR THE YEAR 2022-23

Overall expenditure of Rs. 653.33 Crore has been incurred during 2021-22.

Budget allotment of Rs.626.97 Crore has been provided for the year 2022-23.

14. CHENNAI KANYAKUMARI INDUSTRIAL CORRIDOR PROJECT (CKICP)

14.1 PROJECT DEVELOPMENT

Development of new industrial corridor is a key infrastructure intervention which enables industrial growth and employment generation. Chennai Kanyakumari Industrial Corridor Project is headed by a Project Director and functioning with a Chief Engineer, 2 Circles and 6 Divisions and 5 Special District Revenue Officers.

Chennai Kanyakumari Industrial Corridor Project has been taken up for the improvement of 589 km of 16 State Highways Corridors with loan assistance from the Asian Development Bank under Tamil Nadu Industrial Connectivity Project. All the 16 projects are under execution through Engineering, Procurement and Construction (EPC) Mode.

Under this project, 72.43 km is being upgraded from 2 lane to 4 lane and the remaining 516.57 km length of road is being upgraded from 2 lane to 2 lane with paved shoulders.

Under this project it has been taken up to develop 22 Bypass Roads (109 Km), 13 Major Bridges, 9 ROBs, 1 RUB, 1 Grade Separator, 1 Elevated Corridor, 1 Pedestrian underpass, 1 Limited use subway, 2 Vehicular Under Pass, 120 Minor Bridges, 1285 Culverts and Concrete Lined drains to a length of 371319 m. Further, improvement of 92 major Junctions and 921 other junctions are also being taken up.

S.No	EPC No.	Project Road	Total Length in km
1	EPC -01	Cheyyur (ECR) to Polur(SH115) including ECR link	109.273
2	EPC -02	Kanchipuram-Arakkonam -Tiruthani Road (SH 58-2)	41.779
3	EPC -03	Chengelpet to Kancheepuram Road (SH 58-1) including Military Road	39.786
4	EPC -04	Tiruchendur to Ambasamudram via Palayamkottai (SH 40-1)	50.590
5	EPC -05	Melur to Tirupattur Road (SH 191)	30.485
6	EPC -06	Thanjavur to Mannargudi (SH 63)	29.435

7	EPC -07	Kumbakonam to Mannargudy (SH 66)	14.900
8	EPC -08	Kumbakonam to Sirkazhi (SH 64)	36.779
9	EPC -09	Mayiladuthurai to Thiruvarur (SH 23)	29.882
10	EPC -10	Thuraiyur to Perambalur (SH 142)	30.057
11	EPC -11	Virudhachalam to Ulundurpettai (SH 69)	22.855
12	EPC -12	Cuddalore to Madapattu Junction (SH 9)	37.360
13	EPC -13	Mohanur - Namakkal - Senthamangalam - Rasipuram Road (SH 95)	31.500
14	EPC -14	Tiruchengode to Erode (SH 79)	11.153
15	EPC -15	Omalar to Tiruchengode via Sankakiri including Tiruchengode Bypass (SH 86)	51.715
16	EPC -16	Palayamkottai to Ambasamudram Road (SH 40-2)	21.400
Total			588.949

14.2 PROJECT COST:

The total project cost including land acquisition is Rs.6448 crore. The land acquisition cost of Rs.1574 crore is borne by the State Government. Out of the total Construction cost of Rs.4874

crore, the Asian Development Bank provides loan assistance of Rs.3554 crore and the remaining cost of Rs.1320 crore is borne by the State Government. The loan agreement with the Asian Development Bank was signed on June 16, 2021.

14.3 PROJECT FACILITIES

In order to ensure road safety, adequate signage gantry boards, Street lights and other Road furniture are to be installed. Incident monitoring cameras are to be installed in Major Junctions, Accident Zones and School and Hospital Junctions. Further, to facilitate the passengers, drinking water and toilet facilities will be provided at bus shelters/bays.

14.4 LAND ACQUISITION WORKS

The total extent of private lands to be acquired for the project is 438 hectares in 348 villages. So far, 422 hectares of private lands have been acquired and the remaining extent is in award enquiry and final award stages.

As per the Asian Development Bank's Social Safeguards Policy, the resettlement of 41 families of Indigenous people (Irular Schedule tribes)

located in Melpakkam Village near Arakkonam Railway Station in Ranipet District is planned. In order to resettle these 41 families affected due to land acquisition, Residential buildings, Anganvadi, Community Hall, Temple, Over Head Water Tank, Pump Room and Cement concrete pavement with water supply facility are to be constructed under this project.

14.5 PROGRESS OF CONSTRUCTION WORK

Out of the 16 EPC packages works, 15 EPC packages spanning 557.22 km are in progress. Remaining 1 work is in bidding stage.

14.6 CONSULTANT SERVICE ASSIGNMENTS

For effective implementation of the project, as per the Asian Development Bank requirement, 4 out of 5 construction supervisory consultants have been appointed and are functioning. For the remaining one consultant tender is under evaluation.

14.7 OVERALL EXPENDITURE FOR THE YEAR 2021-22 AND BUDGET ALLOTMENT FOR THE YEAR 2022-23

Overall expenditure of Rs. 1080.00 Crore has been incurred during 2021-22.

Budget allotment of Rs. 1300 Crore has been provided for the year 2022-23.

15. CHENNAI PERIPHERAL RING ROAD (CPRR) PROJECT

Chennai Peripheral Ring Road (CPRR) Project is headed by Project Director. Project Implementation unit is functioning with 1 Superintending Engineer, one Divisional Engineer and one Special District Revenue Officer.

The Chennai Peripheral Ring Road Project length of 132.87 km starts at Ennore Port and ends at Poonjeri Junction near Mamallapuram at East Coast Road. This would be an important transport corridor that will provide better transport connectivity around the Chennai city. It will also provide efficient commercial transportation to ports by linking the principal radial arterial National Highways viz. NH 16 (Chennai - Kolkata National Highway), NH 716 (Chennai - Tirupathi National Highway), NH 48 (Chennai- Bangalore National Highway) and NH 32 (Chennai- Trichy National Highway).

The Project is planned as access-controlled six lane divided carriage way in Section I to Section IV and as access-controlled four lane divided carriage way in Section-V, with two lane service

road on both sides for entire stretch. There would be provisions for Intelligent Transport System (ITS) to enhance the efficiency and safety.

The 132.87 km long Chennai Peripheral Ring Road is split up into 5 Sections for speedy execution.

Section	Starting from	End at	Length (km)	Project Cost (Rs. Crore)
I	Ennore Port	Thatchur at NH 16 (Chennai - Kolkata National Highway)	25.40	3624.42
II	Thatchur at NH-16 (Chennai - Kolkata National Highway)	Start of Thiruvallur Bypass at NH 716 (Chennai - Tirupathi National Highway)	26.10	6754.40 (For Section II and III)
III	Start of Thiruvallur Bypass at NH-716 (Chennai - Tirupathi National Highway)	Sriperumpudur at NH 48 (Chennai - Bangalore National Highway)	30.10	

IV	Sriperumpudur at NH-48 (Chennai-Bangalore National Highway)	Singaperumalkoil at NH 32 (Chennai-Trichy National Highway)	23.80	584.00 (Upgradation only)
V	Singaperumalkoil at NH- 32 (Chennai-Trichy National Highway)	Poonjeri Junction near Mamallapuram at East Coast Road (ECR)	27.47	2850.00
Total			132.87	13812.82

The Section I of this project is being implemented with the external funding Assistance of Japan International Cooperation Agency (JICA) to the tune of 40,074 Million Japanese Yen (Rs.2,473.70 Crore) through Tamil Nadu Road Development Company (TNRDC). The Civil Works in Section I have been commenced.

The Section II & III of CPRR are to be implemented with the external funding Assistance of Asian Infrastructure Investment Bank (AIIB) and OPEC Fund for International Development (OFID) to a tune of 478.07 Million USD (Rs.3346.49 Crore) through Tamil Nadu Road

Infrastructure Development Corporation (TNRIDC). The Loan agreement for external funding is likely to be signed in the first Quarter of Financial Year 2022-23.

The Administrative Sanction has been accorded for the execution of Civil Works in Section-II & III at a cost of Rs.4899.00 Crore. Section-II is split into 2 EPC (EPC-01& 02) Packages and Section-III is split into 3 (EPC-03,04 & 05) packages.

In Section II, the Civil Works in the EPC-01 package has been commenced. Financial Tender Evaluation completed for Civil Works in EPC-02 package and notification of Intention to Award has been issued.

In section-III, the tender has been invited and Technical Tender Evaluation is in progress for EPC-03 & 04 packages. No Objection received from AIIB for EPC-05 Tender documents.

Section IV is already completed by TNRIDC utilizing state funds. Up-gradation of Section IV to the CPRR standard at a cost of Rs.584 Crore is

planned to include in the Loan assistance being sought from the AIIB for section II & III.

Land acquisition in Section V is in progress. The funding agency for the implementation of Section V is being identified.

OVERALL EXPENDITURE FOR THE YEAR 2021-22 AND BUDGET ALLOTMENT FOR THE YEAR 2022-23

Overall expenditure of Rs. 1597.81 Crore has been incurred during 2021-22.

Budget allotment of Rs. 2498.50 Crore has been provided for the year 2022-23.

16. HIGHWAYS RESEARCH STATION

In 1948 Highways Research Station was founded as Soils Laboratory for the development of Tamil Nadu Highways Department. In 1957, it was re-established as Highways Research Station.

Among the oldest research institution of its kind, Highways Research Station is a pioneer Research Institute. Built over about 40,000 sqft area in Guindy, the institution has well equipped laboratories and a library.

Within its Campus, it hosts fully equipped Training centre, for offering training courses to officers of Tamil Nadu Highways Department.

Highways Research Station is headed by the Director and functioning with 2 Joint Directors, 1 Superintending Engineer, 6 Deputy Directors and 17 Divisional Engineers.

The primary objectives of the Highways Research Station are as follows,

- Researches on innovative construction materials and technologies.

- Testing on materials used for road and bridge works.
- Offering technical solutions for field issues.
- Ensuring quality of works in several stages.
- Capacity building of the Highways staff through training.
- Offering suggestion to Execution wings in Road safety measures for ensuring safe and seamless traffic.
- Offers technical guidance for geometric and junction improvements.

To enhance the functional efficiency of HRS and enable to take flexible decision, Governing committee headed by the Minister has been constituted by the Government. The functions of the committee are as follows:

- Approving research project proposals and providing guidance for application of modern techniques in the research and developmental activities.

- Approving proposals and granting permissions for field trials of the outcome of the research project in the road network
- Approving proposals for outsourcing of selected work elements of HRS and training centre.
- Approving the rate of remuneration for the trainers of the various training programs conducted by the training centres and provisions of incentive to the staff of the HRS and the training centre for excellence in performance.
- For deputing the HRS engineers for attending the seminars/ Conference related to Highways in India or Other country without any limitation.

16.1 RESEARCH WORKS

The research schemes under Tamil Nadu Innovation Initiatives Fund (TANII) are as follows,

- Accident study for Vulnerable Road Users

- Study on performance of bituminous pavement laid over stabilized subbase
- Study on improving the CBR value of subgrade soil by adding quarry dust
- Bridge Instrumentation for Structural Health Monitoring System in Highways Department.
- Study on the Technology of Long lasting pavement including construction of circular test for Model Study
- Study on effect of Nano Clay in Bituminous Mixes
- Study on the performance of Jute fibre reinforced cold Bituminous mixes
- To Study the effectiveness of Curing Compounds on concrete Pavement

16.2 LABORATORIES

Highways Research Station has 4 Laboratories at Chennai viz., Bitumen, Soil, Concrete and Traffic.

For testing of road and bridge construction materials, laboratories are functioning at regional level at Villupuram, Trichy, Thanjavur, Madurai, Tirunelveli, Salem, Tirupur and Coimbatore.

It has been announced that HRS will be upgraded to International Standard. To procure the latest equipment to carryout the research work, action has been taken at a cost of Rs.3.95 crore through Chennai Kanyakumari Industrial Corridor Project.

16.3 QUALITY CONTROL

For ensuring safe and speedy travel, quality control plays a vital role. For better quality control 9 quality control divisions are functioning with laboratory facilities to ensure the quality of work as per the codal provisions. The quality of works carried out by the different execution wings of the Department are being monitored by Quality Control Divisions.

16.4 TRAINING CENTRE

An exclusive Training Centre is functioning with modern facilities and a hostel.

Training programmes are being conducted to the departmental engineers and other staffs to enhance their knowledge and improve their performance.

16.4.1 TRAINING

- In order to reduce the number of accidents in Tamil Nadu, as per the direction of the Hon'ble Chief Minister of Tamil Nadu to create 'Accident free Tamil Nadu', a special continuous training programme on 'Road Safety Engineering' benefitting all the Engineers of the Department has been launched on 15.12.2021. The first phase is planned for 400 Engineers.
- Training is organized on the core subjects like Design, Construction, Quality Control and Maintenance of Highways and Bridges.
- Training is offered to other Departmental Staff in various subjects.

TRAINING CONDUCTED DURING 2021-22

During the Year 2021-22, 11 training programmes for 433 Engineers and 58 Staff of the Department were conducted inclusive of 3 online programmes.

16.4.2 COMPREHENSIVE TRAINING PROGRAMME

Based on the study on Training need assessment, it is planned to implement a Comprehensive Training Program (CTP) covering all the staff members under five categories of services over a five year plan period as per the training calendar. Guidelines have also been formulated for successful implementation of Comprehensive Training Program (CTP).

A separate G.O. has been issued on 18.3.2022 for conducting Comprehensive Training Programme (CTP). As per the CTP 27 modules of training programmes have been identified. It is planned to conduct 66 training courses covering 2640 trainees every year. The implementation will start from 2022-23.

16.5 ROAD SAFETY WING

Road safety wing is formulated and functioning with the aim of offering suggestions on Road safety aspect to Construction & Maintenance wing and National Highways wing.

16.5.1 SCOPE AND OBJECTIVE OF THE ROAD SAFETY WING

- To analyze the road traffic accident data from iRAD and other collateral sources.
- To coordinate with various stake holder departments and NGOs on issues of Road Safety.
- To offer suggestion in the junction improvement proposals and other road safety works as per standards.
- To carryout field/observational visits and suggesting suitable remedies including monitoring the post improvement.

16.5.2 FUNCTIONS OF ROAD SAFETY WING

- Road Safety Wing has inspected and necessary suggestions have been issued

in preparing drawing and estimates during the year 2021 -22 for 401 Works taken up under CRIDP for an amount of Rs.200.00 Crores and 99 Road Safety Works to an amount of Rs.100.00 Crores under Road Safety fund.

16.6 COORDINATION WITH NATIONAL INSTITUTIONS

- Highways Research Station is a Member of Accreditation of New Materials & Techniques committee and Human Resource Development
- Every year, at the Annual sessions conducted by the Indian Road Congress, the technical presentations are made by the Engineers of the Highways Research Station.

16.7 REVENUE

During the financial year 2021-22, all laboratories of Highways Research Station have conducted 22,226 tests and earned a revenue of Rs. 18.39 Crores.



Hon'ble Minister for Public Works, Highways and Minor Ports Department inspected the road work of "Thiruvarur – Kudavasal – Kumbakonam Road" in Thiruvarur district



Hon'ble Minister for Public Works, Highways and Minor Ports Department inaugurated the "Road Safety Engineering" Special Training Programme and presented the certificates to Trainees

17. PLANNING, DESIGNS AND INVESTIGATION

The Design and drawing of Bridge works for the Highways Department are carried out in the four Design division offices with one Joint Chief Engineer under the control of Chief Engineer and functioning in Chennai.

17.1 ACTIVITIES OF THE WING

- Preparation of Structural Designs, Drawings and Quantity Estimates for River Bridges, Road Over Bridges, Road Under Bridges, Grade Separators and other Highway Structures.
- Proof Checking and according approval for Detailed Project reports prepared by the Consultants engaged by various wings of the Department.
- Revision of Structural components of the Bridges, if warranted in accordance with Subsoil conditions and Site constraints during execution.

- Scrutinizing and giving Recommendations to facilitate the issue of Permit for Non-standard heavy Motor vehicles to ply on Roads / Bridges.
- Scrutinizing and according approval for the Structural Design of Bridges that are being constructed by Other Departments.

17.2 PROGRESS OF WORK DURING THE YEAR 2021-22

The design of 90 bridge work have been completed in the year 2021-22 and 44 works are in progress.

18. TAMIL NADU ROAD DEVELOPMENT COMPANY LTD

TamilNadu Road Development Company (TNRDC) is a Joint Venture of 50:50 shareholding of Tamil Nadu Industrial Development Corporation Limited(TIDCO) and TIDEL.

M/s. Information Technology Expressway Ltd. (ITEL) is a TNRDC's subsidiary company.

18.1 FUNCTIONS AND PROJECTS

This company is engaged in activities such as Concessionaire, Project Management Associate & Toll Management Services.

ITEL is maintaining Rajiv Gandhi Salai as Toll Road.

TNRDC is managing the stretch of East Coast Road (ECR) from Akkarai to Puducherry as Toll road.

This company is also managing the following projects.

18.1.1 Chennai Outer Ring Road

The Green field project road work from Vandalur in NH 32 to Tiruvottiyur–Ponneri-Pancheti Road in Minjur for a length of 60.15 km has been designed and completed in two phases.

In Phase-I from Vandalur to Nemilicherry in NH 716 for a length of 29.65 km has been completed at a cost of Rs.1081.40 Crore under DBFOT concept.

The Phase-II is from Nemilicherry in NH716 to Tiruvottiyur–Ponneri-Pancheti Road in Minjur for a length of 30.50 km has been completed at a cost of Rs.1075.00 Crore also under DBFOT concept.

User Fee Collection is commenced from 19.01.2022 onwards.

18.1.2 Construction Of 'U' Shaped Flyovers At Indira Nagar Junction and Tidel Park Junction In Rajiv Gandhi Salai

The major traffic management work involving the construction work of 'U' Shaped Flyovers at Indira Nagar Junction and TIDEL Park Junction, a Foot Over Bridge across Tiruvanmiyur branch road leading to ECR from Rajiv Gandhi Salai and a

Minor Bridge across Buckingham Canal are taken up at an estimated cost of Rs.108.13 Crore, and the works are in progress.

18.1.3 Chennai Peripheral Ring Road Section-I

This section from Ennore Port to Thatchur (21.7 Km) is being developed as a Green Field Project by TNRDC with JICA funds. Also, a spur link to Outer Ring Road (3.68 Km) is included.

The construction of project road is in progress.

18.1.4 Bypass to Kelambakkam and Thiruporur

These two bypasses are being developed by TNRDC in Old Mahabalipuram Road. Thiruporur Bypass (7.450 Km) and Kelambakkam Bypass (4.675 Km) works are in progress.

18.2 OVERALL EXPENDITURE FOR THE YEAR 2021-22 AND BUDGET ALLOTMENT FOR THE YEAR 2022-23

Overall expenditure of Rs. 499.23 Crore has been incurred during 2021-22.

Budget allotment of Rs. 417.97 Crore has been provided for the year 2022-23.

19. TAMIL NADU ROAD INFRASTRUCTURE DEVELOPMENT CORPORATION

TNRIDC is a non-profitable organization solely owned by the Government. TNRIDC is implementing state Government projects and Externally Aided Projects.

19.1 PROJECTS IMPLEMENTED BY TNRIDC

19.1.1 Oragadam Industrial Corridor Project

The roads namely Vandalur to Wallajabad Road Km 30/4 – 63/8 and Singaperumalkoil to Sriperumpudur Road 0/6 – 24/6 are taken up for widening to six lane in 5 phases. The work in phase 1 to 4 has been completed, whereas Phase 5 of the project work is in progress.

The work of “Construction of Grade separator at km 37/6 - 38/4 of Vandalur - Wallajabad road instead of Padappai Bye pass” at a cost of Rs.26.65 Crore, commenced on 15.12.2021 and the work is in progress.

19.1.2 CHENNAI PERIPHERAL RING ROAD

TNRIDC is the Project Implementation Unit for Section 2, 3, 4 & 5 of Chennai Peripheral Ring Road Project.

- Section 2: Thatchur on NH16 to starting point of Thiruvallur Bye Pass for a length of 26.10 Km.
- Section 3: Starting of Thiruvallur Bye Pass to Sriperumbudur on NH 48 for a length of 30.10 km.
- Section 4: Sriperumbudur on NH48 to Singaperumalkoil on NH 32 for a length of 23.80 Km has already been widened to six lane with service roads. Since CPRR is proposed as Access Controlled road it is proposed to provide vehicular underpasses at major junctions and also strengthen the existing road.
- Section 5 : Singaperumalkoil on NH 32 to Mahabalipuram for a length of 27.47 Km.

19.1.3 Construction of ROB in lieu of existing LC No.47

The work of "Construction of ROB in lieu of existing LC No.47 in between Guduvanchery and Singaperumalkoil Railway Stations" at a cost of Rs.90.75 Crore commenced on 15.12.2021 and work is in progress.

19.2 OVERALL EXPENDITURE FOR THE YEAR 2021-22 AND BUDGET ALLOTMENT FOR THE YEAR 2022-23

Overall expenditure of Rs. 37.81 Crore has been incurred during 2021-22.

Budget allotment of Rs. 43.14 Crore has been provided for the year 2022-23.

20. TAMIL NADU MARITIME BOARD

Tamil Nadu Maritime Board was established under the Tamil Nadu Maritime Board Act 1995 (Act 4 of 1996) on 18.03.1997 for the purpose of Administration, Management and Control of Minor Ports in the State of Tamil Nadu. The main objectives and functions of TNMB are detailed below:-

1. To increase the share of Tamil Nadu State in the Export and Import Sector.
2. To decongest the major ports in the State of Tamil Nadu.
3. To cater to the needs of the increasing traffic of Southern States by providing efficient facilities and services.
4. To create sufficient infrastructure facilities.
5. To provide port facilities to promote export oriented industries and port based industries.

6. To promote port based Thermal Power plants by providing exclusive port facilities.
7. To facilitate optimum utilization of port infrastructure developed in the State.

20.1 COASTLINE AND PORTS

Tamil Nadu State has the second longest coastline of 1076 Kms in India. The coastline consists of Three Major Ports namely

1. Chennai Port
2. Kamarajar Port (Ennore)
3. V.O.Chidambaranar Port (Thoothukudi)

20.2 MINOR PORTS IN TAMIL NADU

The following are the declared / Notified Minor ports in Tamil Nadu:-

Government Ports	Captive ports
1) Cuddalore	1) Kattupalli
2) Nagapattinam	2) Ennore Minor port
3) Pamban	3) Panaiyur
4) Rameswaram	4) Thiruchopuram

5) Kanyakumari	5) Silambimangalam
6) Colachel	6) Parangipettai
	7) PY-03 Oil Field
	8) Thirukkadaiyur
	9) Thirukkuvalai
	10) Udangudi
	11) Koodankulam

The Major Ports are controlled by Government of India and the Minor Ports are under the control of Government of Tamil Nadu.

20.3 MINOR PORTS DEVELOPMENT POLICY

Minor Ports along the Coast of Tamil Nadu are developed as per the Minor Ports Development Policy of Government of Tamil Nadu.

The Policy encourages Private Participation, Flexible Approach, Institutional Co-ordination and Backup. Tamil Nadu Maritime Board is a statutory body and is functioning with enough freedom and operational flexibility for rapid development of the Minor Ports in the State but with commercial prudence and responsibility.

20.4 ACTIVITIES OF OPERATIONAL MINOR PORTS

20.4.1 Government Ports

Cuddalore Port: An open sea anchorage port and is developed with the own funds of Tamil Nadu Maritime Board and with the Financial Assistance of Government of India (Sagarmala Scheme), into a deep water port for small / medium size ships directly.

Nagapattinam Port: An open sea anchorage port handling import of Edible Oil through barges.

Pamban Port: Pilotage services are provided in the Pamban channel, which provides East-West sea-borne connectivity for smaller vessels / crafts. An Environmental & Technical Feasibility study has been conducted for increasing the depth of existing Pamban channel.

Rameswaram Port: A short trip passenger ferry is operated near Agnitheertham area.

Kanyakumari Port: A Passenger ferry port providing ferry services to Vivekananda Rock Memorial and Ayyan Thiruvalluvar Statue,

operated by Poompuhar Shipping Corporation Limited.

20.4.2 Captive Ports / Terminals:

Kattupalli Port: Ship building, Ship repairs and Modular Fabrication works are carried out by Larsen & Toubro Limited. Export / Import of cargoes are handled by Marine Infrastructure Developer Private Limited.

Ennore Minor Port: Imports Liquid Ammonia through Multiple Buoy Mooring system.

Chemplast Marine Terminal within Cuddalore Port limit: An Island Jetty facility used to Import Vinyl Chloride Monomer.

Thirukkadaiyur Port: Imports Naphtha through Single Point Mooring for 330 MW Power Plant, as required by Tamil Nadu Generation and Distribution Corporation Limited (TANGEDCO).

Koodankulam Port: Import of Machinery/ Over Dimensional Cargo are handled through Roll on – Roll off Jetty for Kudankulam Nuclear Power Project Units 3, 4, 5 & 6.

The other declared Minor ports are under various stages of obtaining statutory clearances and under development, etc.,

20.5 COMMODITIES HANDLED IN MINOR PORTS

S. No	Port	Export	Import
1.	Cuddalore	-	Vinyl Chloride Monomer
2.	Nagapattinam	-	Edible Oil
3.	Kattupalli Port	Containers, General Cargo & Machineries	Containers & General cargo
4.	Ennore Minor Port	-	Liquid Ammonia
5.	Thirukkadaiyur	-	Natural Gas

20.6 INITIATIVES OF THE BOARD IN DEVELOPMENT OF PORTS

20.6.1 Development of Cuddalore port

Cuddalore Port is an intermediate anchorage port. The Port is developed as Deep water, Direct Berthing, All weather port to handle small & medium size vessels, coastal vessels etc., with the own funds of Tamil Nadu Maritime Board and also with the financial assistance from Ministry of

Ports, Shipping & Waterways, New Delhi under Sagarmala Scheme.

In order to handle Cargo for Industries located in Central and Western Districts of Tamil Nadu, the Government issued In-Principle Orders on 24.02.2022 for selection and engagement of competent Port Operator for Marketing, Operation and Maintenance of the developed Cuddalore Port.

Draft Bid Documents & Concession Agreement shall be approved by the Tamil Nadu Infrastructure Development Board (TNIDB) and the Port Operator shall be selected through Competitive Bidding Process.

20.6.2 Kanyakumari Port:

M/s. Poompuhar Shipping Corporation Limited is operating ferry service between Shore and Vivekananda Rock Memorial / Ayyan Thiruvalluvar Statue. Tamil Nadu Maritime Board is supervising the ferry service.

(i) Extension of Jetty at Vivekananda Rock Memorial at Kanyakumari:

Extension of Jetty at Vivekananda Rock Memorial is taken up at a cost of Rs.20 Crore under Sagarmala Programme with 50% financial assistance from Government of India to attract more tourists / passengers.

(ii) Pedestrian Marine Bridge connecting Vivekananda Rock Memorial and Ayyan Thiruvalluvar Statue Rock:

Construction of Pedestrian Marine Bridge connecting Vivekananda Rock Memorial and Ayyan Thiruvalluvar Statue under Sagarmala Programme with 50% financial assistance from Government of India is being taken up at a Project Cost of Rs.37 Crore.

20.6.3 Udangudi Port:

This port was declared in the year 2010 for establishing an open sea jetty (length – 8 km) to receive coal for their 1320 MW Udangudi Super Critical Thermal Power Project. Tamil Nadu Generation and Distribution Corporation (TANGEDCO) has commenced construction works

in June - 2018 and expected completion of port infrastructures (trestle jetty) by March 2023.

20.7 TAMIL NADU MARITIME ACADEMY

The Tamil Nadu Maritime Academy functioning at Thoothukudi is under the control of Tamil Nadu Maritime Board. The Academy is conducting pre-sea General Purpose rating residential course for 6 months duration with 40 trainees per batch and 1480 students have been trained so far. The 37th batch of GP rating course has commenced from January 2022.

The Academy also provides training to candidates on the following STCW-2010 courses.

- I. Personal Survival Techniques
- II. Elementary First Aid
- III. Personal Safety and Social Responsibility
- IV. Oil and Chemical Tanker Cargo Operations
- V. Fire Prevention and Fire Fighting
- VI. Security Training for Seafarers

The above courses are approved by Directorate General of Shipping, Government of India and on completion of the above courses, the candidates get employment in Indian and Foreign flag vessels.

20.8 CARGO HANDLED AND REVENUE OF THE BOARD FOR 2021-2022

14,75,141 MT of cargo and 4,33,138 (TEU – Twenty Equivalent Unit) of containers have been handled through the Minor Ports and Tamil Nadu Maritime Board earned a Gross Revenue of Rs. 50 Crore in FY 2021-2022.

21. POOMPUHAR SHIPPING CORPORATION LIMITED

The Government of Tamil Nadu formed a Shipping company on 11.04.1974 under the Companies Act, 1956 in the name of Poompuhar Shipping Corporation Limited (PSC) with the main objective of transporting the domestic coal, required for the Tamil Nadu Generation and Distribution Corporation Ltd., (TANGEDCO) for the generation of electricity.

21.1 CORE ACTIVITIES

The core activities of the corporation are the transportation of thermal coal along the East Coast of India and ferrying passengers from the shore of Kanniyakumari to Vivekananda Rock Memorial and Ayyan Thiruvalluvar Statue.

21.2 COAL MOVEMENT FOR NTECL

Presently the Corporation is transporting the entire domestic coal from the load ports of Paradip and Dhamra to Kamarajar Port, Ennore for NTPC Tamil Nadu Energy Company Ltd., (NTECL), a joint venture of the TANGEDCO and NTPC., for its 3 thermal power stations at Vallur,

North Chennai as per the Memorandum of Understanding.

21.3 PERFORMANCE OF COAL TRANSPORT

The Quantity of Coal moved to the NTPC Tamil Nadu Energy Company Limited (NTECL) depends on the allocation of coal for the generation of Electricity. Based on the need and necessity, the Poompuhar Shipping Corporation Limited chartered 3 vessels for the year 2021-22 for transportation of coal for NTECL.

Physical performance (in lakh MT)

Year	Quantity of coal received at load ports	Quantity transported
2019-2020	165.00	138.97
2020-2021	164.00	92.90
2021-2022	62.86	58.73

21.4 SERVICE CHARGE

The transportation of coal for NTECL is undertaken with service charges of 5% on charter hire charges of the vessels chartered for their operations.

21.5 KANNIYAKUMARI FERRY SERVICE

The Corporation ferries tourists from the shore to Vivekananda Rock Memorial and the Ayyan Thiruvalluvar statue. Presently, three ferries namely M.L.Guhan, M.L.Pothigai and M.L.Vivekananda with a seating capacity of 150 each are being operated since 11.08.1984.

Physical and Financial Performance of Kanniyakumari ferry service

Year	No. of tourists (in Lakh)	(Rs. in Lakh)	
		Gross earnings	Profit
2019-2020	19.74	1234.03	193.41
2020-2021	3.01	158.01	-276.70
2021-2022	5.47	313.47	-179.63

21.6 FINANCIAL PERFORMANCE OF THE CORPORATION

Poompuhar Shipping Corporation coal transporting business has suffered due to Covid - 19 lockdown periods. Kanniyakumari Ferry Service revenue was also affected since service

was stopped during Covid -19 lockdown period as per Government order.

During 2021-22, the total turnover is Rs. 299.10 crore.

21.7 PLAN FOR 2022-23

The corporation proposes to transport 59.00 Lakh Metric Tonne of coal through chartered vessels for NTECL.

Presently Poompuhar Shipping Corporation is incurring loss. Necessary steps are being explored to uplift the organization.

E.V.Velu

**Minister for Public Works,
Highways and Minor Ports
Department**

ANNEXURE

DETAILS OF BYPASSES

Pre – Construction Stage

- Mangainallur
- Sannanallur
- Coonoor
- Thiruthuraipoondi Phase I
- Parthibanur
- Bhavani
- Kamuthi
- Sivagangai
- Aruppukottai Western Bypass
- Ambasamudram

Land Acquisition stage

- Periyapalayam
- Vellore Ring Road (Phase-1)
- Kumbakonam (Phase-3)
- Thirukattupalli
- Valangaiman
- Mannarkudi Ring Road
- Tiruvarur
- Karur Ring Road
- Dindigul
- Attur (Phase-1)
- Papparapatti
- Hosur Outer Ring Road
- Coimbatore Western Ring Road
- Mettupalayam Bypass

- Sivakasi Outer Ring Road
- Mayiladuthurai
- Arcot
- Thirupathur
- Thiruvannamalai
- Namakkal
- Tiruchengode
- Tenkasi
- Sankarankoil
- Mudhukulathur
- Palladam
- Thiruvallur
- Rasipuram (Phase-2)
- Shoolagiri
- Bodinayakanur (Phase-1)
- Tirunelveli Western Bypass
- Alternate Route to Pollachi via Chettipalayam
- Jalakandapuram
- Uthiramerur
- Thuraiyur (Phase-2)

Detailed Project Report stage

- Aranthangi
- Trichy (Half ring road)
- Alangudi
- Myladudurai
- Musuri
- Vellakovil
- Tiruppur
- Kankeyam
- Pennadam
- Sendurai
- Chengam

- Melkatchirapattu-Keelkachirapattu
- Pudukkottai
- Gudalur
- R. K. Pettai
- Pallikonda
- Manachanallur phase II
- Manaparai
- Thiruthuraiipoondi phase II
- Nannilam
- Ariyalur Phase- II
- Udhagai
- Sholingur
- Koothanallur
- Thittagudi
- Virudhachalam Phase-II
- Kallakuruchi
- Avalurpet
- Thuraiyur Phase III
- Northern bypass to Avinashi
- Eastern bypass to Karamadai
- Western bypass to Karamadai
- Dharmapuri
- Gangavalli
- Bodinayakanur Phase-2
- Sathankulam
- Elaiyirampannai
- Gobichettipalayam
- Batlagundu
- Pattukkottai (Phase-3)
- Perambalur (Phase-3)

