



**GOVERNMENT OF TAMIL NADU
HIGHWAYS AND MINOR PORTS DEPARTMENT**

DEMAND NO. 21

PERFORMANCE BUDGET

2019-2020

PERFORMANCE OF HIGHWAYS AND MINOR PORTS DEPARTMENT DURING 2019-2020

I. HIGHWAYS DEPARTMENT

1. INTRODUCTION

Roads are the dominant mode of transportation and carry most of the freight and passenger traffic. Due to the economic and industrial development, there is increase in vehicle population. Hence, it is necessary to increase the capacity of the roads. Further, to provide seamless flow of traffic construction of high level bridges, Road Over Bridge / Road Under Bridge, grade-separators and formation of bypasses are essential one. The above works are carried out by Highways Department under various plan schemes such as Comprehensive Road Infrastructure Development Programme, Chennai Metropolitan Development Plan, Revamped Central Road Fund, NABARD Loan Assistance, Railway Works Programme and other externally aided special projects.

Further, maintenance of existing road network help in attaining optimum service from the roads and deterioration of the road surface is slowed down by preventive maintenance. These works are carried out under non-plan schemes.

The detailed physical and financial performance of the Highways Department during 2019 - 20 is given below:

1.1 ASSETS MAINTAINED BY HIGHWAYS DEPARTMENT

There are 66,039 km of roads under the Highways Department. The classification of roads and their lengths and the type of existing bridges and their numbers are tabulated in Table 1 and Table 2 respectively. The surface-wise details and lane-wise details of the roads are tabulated in Table 3 and Table 4 respectively.

TABLE 1: CLASSIFICATION OF ROADS

length in km

Classification of Road		Length
National Highways (NH)	Maintained by State NH wing	1900
	Maintained by NHAI	4734
	NH Total	6634
State Highways (SH)		11169
Major District Roads (MDR)		11612
Other District Roads (ODR)		36624
Total length of roads other than NH		59405
Overall Total		66039

TABLE 2: TYPES OF BRIDGES AND THEIR NUMBERS

Types of Bridges	Nos.
Major Bridges and Minor Bridges*	8973
Culverts	122583
Road Over Bridges at Railway level crossing(ROB)	133
Road Under Bridges at Railway level crossing (RUB)	57
Pedestrian Sub Way	14
Total	131760

* includes bridges with Linear Waterway 6m-60 m and more than 60m

TABLE 3: SURFACE-WISE LENGTH

length in km

S. No.	Category of Road	Cement Concrete (C.C)	Black Topped (B.T)	Metaled	Total
1	National Highways	2	6632	-	6634
2	State Highways	23	11146	-	11169
3	Major District Roads	32	11580	-	11612
4	Other District Roads	108	36516	-	36624
Total		165	65874	-	66039

TABLE 4: LANE-WISE DETAILS OF ROADS

length in km

S. No.	Classification of Road	Single lane	Inter mediate lane	Double lane	Multi lane	Total
1	National Highways					
	a)State NH wing	-	-	1608	292	1900
	b) National Highways Authority of India	-	-	1906	2828	4734
	Sub-Total	-	-	3514	3120	6634
	Percentage of lane-wise width of roads	-	-	53%	47%	
2	State Highways	38	215	8570	2346	11169
	Percentage of lane-wise width of roads	0%	2%	77%	21%	
3	Major District Roads	321	7186	3869	236	11612
	Percentage of lane-wise width of roads	3%	62%	33%	2%	
4	Other District Roads	30490	4960	1103	71	36624
	Percentage of lane-wise width of roads	83%	14%	3%	0%	
	Total	30849	12361	17056	5773	66039
	Percentage of lane width to the total length of roads	46%	19%	26%	9%	

1.2 PERFORMANCE UNDER PLAN SCHEMES**1.2.1 FINANCIAL PERFORMANCE**

The financial performance under the plan schemes for the year 2019-20 and Budget Estimate for the year 2020-21 are given in **Table 5**.

TABLE 5: FINANCIAL PERFORMANCE

Rs.in lakh

S. No.	Name of Scheme	Budget Estimate	Expenditure (Upto Feb 2020)	Budget Estimate 2020-21
		2019-20		
Construction and Maintenance				
State Highways				
1	Bridges (Original works)	1188.93	1188.93	0.01
2	Roads (Land Acquisition)	0.02	235.16	0.01
3	16 major works	0.00	0.00	100.00
	Sub-Total	1188.95	1424.09	100.02
Major District Roads				
4	Major District Roads (Original works)	0.01	0.00	0.00
5	16 major works	0.00	0.00	100.00
	Sub-Total	0.01	0.00	100.00
Other District Roads				
6	Other District Roads	0.02	0.00	0.00
7	16 major works	0.00	0.00	100.00
	Sub-Total	0.02	0.00	100.00
Rehabilitation of Distressed Bridges				
8	Rehabilitation of Distressed Bridges	0.00	0.00	120.19
9	16 major works	0.00	0.00	100.00
	Sub-Total	0.00	0.00	220.19

S. No.	Name of Scheme	Budget Estimate	Expenditure (Upto Feb 2020)	Budget Estimate 2020-21
		2019-20		
Comprehensive Road Infrastructure Development Programme				
10	CRIDP – SH	132218.00	96033.75	119736.19
11	CRIDP – MDR	70742.30	64941.70	84791.97
12	CRIDP – ODR	141304.70	115388.25	165094.84
13	CRIDP – ODR (SCP)	20000.00	15985.54	21742.00
	Sub-Total	364265.00	292349.24	391365.00
14	CRIDP – IRQP	40000.00	34596.93	64574.00
15	CRIDP – PBMC	52778.00	44631.75	94061.00
16	Improvement to Chennai Radial Roads	0.01	0.00	0.01
17	Acquisition of lands for bypasses-JK			
	(i) Works	0.00	0.00	0.00
	(ii) Lands	13268.64	85.48	12500.05
	Sub-Total	13268.64	85.48	12500.05
18	Acquisition of lands for bypasses - KC			
	(i) Works	6829.01	2088.13	6524.59
	(ii) Lands	34926.92	115.04	15142.00
	Sub-Total	41755.93	2203.17	21666.59
19	Improvement of vital roads in industrial areas			
	(i) Works	10161.03	8612.72	6742.40

S. No.	Name of Scheme	Budget Estimate	Expenditure (Upto Feb 2020)	Budget Estimate 2020-21
		2019-20		
	(ii) Lands	3529.00	0.00	3200.01
	Sub-Total	13690.03	8612.72	9942.41
20	Widening of Madurai ring road to four lane	1859.71	1857.69	7.29
21	Project for Construction of Chennai Peripheral Ring Road (CPRR) with JICA Assistance (Section I)	0.00	0.00	50000.00
22	Acquisition of Lands for formation of CPRR with AIIB Assistance (Section II, III and V)	66000.00	14.41	50000.00
23	Chennai Outer Ring Road (Phase-I)	12968.12	16820.54	20430.99
24	Chennai Outer Ring Road (Phase-II)			
	(i) Works	23670.00	23757.62	27449.00
	(ii) Lands	2500.00	0.00	5262.00
	Sub-Total	26170.00	23757.62	32711.00
25	Construction of Buildings	590.08	30.04	0.15
26	Upgradation of IT highway in Chennai	0.01	0.00	0.00
27	Schemes implemented under State Infrastructure and Amenities fund -Controlled by Chief Engineer(Construction and Maintenance) Highways	6278.80	2446.66	0.09

S. No.	Name of Scheme	Budget Estimate	Expenditure (Upto Feb 2020)	Budget Estimate 2020-21
		2019-20		
28	Special Project for attending Road Safety	10000.00	5910.53	10000.00
29	Northern Port Access Road			
	(i) Works	25.00	25.00	0.01
	(ii) Lands	20000.00	0.00	20000.00
	Sub-Total	20025.00	25.00	20000.01
30	Bye-pass to KelambakkamThiruporur in Rajiv Gandhi Salai with JICA assistance - TNIPP Phase 2	10370.00	6800.00	2500.00
31	Construction of CE Quarters	0.01	0.00	0.00
32	City Traffic Improvement works	4817.82	493.35	4885.82
33	High Density Corridor	1892.62	310.84	853.22
34	Construction of flyover at Salem junction-Yercaud Road	2235.78	7248.61	2535.00
35	Widening from Intermediate Lane to Four Lane and Strengthening of Pudevoyal-Pulicat Road with JICA Assistance-TNIPP II	2578.74	0.00	3127.03
36	Widening and Improving the road to Industries-KH	0.00	0.00	162.18
37	Permanent Flood Restoration works	0.00	0.00	5492.94

S. No.	Name of Scheme	Budget Estimate	Expenditure (Upto Feb 2020)	Budget Estimate 2020-21
		2019-20		
38	Asian Development Bank assistance Chennai – Kanyakumari Industrial Corridor project			
	(i) Works	30000.00	1384.00	50000.00
	(ii) Lands	50000.00	0.00	50000.00
	Sub-Total	80000.00	1384.00	100000.00
	Total	772733.28	451002.67	897334.99
39	Tsunami – Centrally assisted	0.01	0.00	0.00
	Total	772733.29	451002.67	897334.99
Highways Research Station				
40	Operation and Maintenance of Road Measurement and data acquisition system in respect of ODR and NH roads	6.10	0.00	0.00
41	Tamil Nadu Innovation Initiatives Fund (TANII) for 2016-17 JG	12.00	12.00	0.01
42	Tamil Nadu Innovation Initiatives Fund (TANII) for 2017-18 JI and JK	83.00	5.38	0.02
43	Operation and Maintenance of Advanced Data Collection Equipments JM	19.81	3.70	15.68
	Total	120.91	21.08	15.71

NABARD and Rural Roads Wing				
44	Improvements to District and Other District Roads with Loan Assistance from NABARD	0.12	-	-
45	Bridges on Government roads	0.01	-	-
46	Construction of bridges in Government and Rural roads	29960.01	20925.07	32301.15
47	Rural Roads Scheme	0.02	-	383.91
48	Bus Route Scheme	0.02	-	-
49	Special Component Plan Scheme	0.02	-	-
50	ADB assisted Projects (TEAP)	0.01	-	1.57
51	By-pass Road works (LA)	1132.00	12.74	10549.57
52	Upgradation of Panchayat Union Roads / Panchayat Roads (Infrastructure Fund)	105000.00	78235.00	105000.00
53	Upgradation of Panchayat Union Roads / Panchayat Roads (NABARD loan assistance Fund)	0.01	-	-
54	Construction/Reconstruction of Bridges under State Fund(KJ Head)	-	-	677.20
	Total	136092.22	99172.81	148913.40

Projects Wing				
55	Construction of over and under bridges in lieu of existing level crossings JJ	27903.95	5047.94	36083.73
56	Construction of ROB in Chennai Metro Area for Traffic Management JD	20.06	149.59	155.16
57	Construction / Reconstruction of bridges JE	3831.97	2267.39	8618.32
58	Construction/ Reconstruction of bridges and improvement of roads with loan assistance from NABARD JQ	0.05	0.00	0.52
59	Provision for road works under TNUDP JN	2000.02	6.54	2672.55
60	Construction of Road Over Bridge/Road Under Bridge in lieu of level crossings JT	31956.87	10432.70	36600.30
61	Construction of over and under bridges in lieu of existing level crossings JG	12800.81	2281.48	15683.72
62	Construction of Bridges with loan assistance from HUDCO (Land acquisition payment) - JB	0.01	0.00	0.01
63	Comprehensive Road Infrastructure Development Programme (CRIDP) - Formation of Bypasses - JO	3586.17	0.00	1650.02
64	Construction of Elevated corridors - JJ	-	-	20000.00
	Total	82099.91	20185.64	121464.33

Metro Wing				
65	Chennai Metropolitan Development Plan – Traffic and Transport Improvement in Chennai City-JH	3664.27	1678.46	1361.95
66	Construction of Bridges and Roads under Chennai City Traffic Decongestion Projects (CCTDP) - Lands	0.00	0.00	48.00
67	Traffic and Transport Improvement in Chennai City-JW	27726.22	8864.54	41247.33
68	Works executed by Chief Engineer (Metro), Highways from State Infrastructure and Amenities Fund	26031.41	2008.90	23089.67
	Total	57421.90	12551.90	65746.95
National Highways				
69	Revamped Central Road Fund – SA	80000.00	104610.69	92829.21
70	Bharat Nirman Scheme (Maintenance borne by State Government)-JS	503.36	268.71	210.00
	Total	80503.36	104879.40	93039.21
Tamil Nadu Road Sector Project				
71	TNRSP	45973.64	30781.54	61406.22
	Total	45973.64	30781.54	61406.22

Director General (Highways)				
72	Operation and Maintenance of Advanced Data Collection Equipment (ADCEs) in respect of SH/MDR/NHAI roads	0.02	0.00	0.00
Total		0.02	0.00	0.00
Overall Total		1174945.25	718595.04	1387920.81

1.2.2 PHYSICAL PERFORMANCE

The physical achievements under the plan schemes for the year 2019-20 and targets for the year 2020-21 are given in **Table 6**.

TABLE 6: PHYSICAL PERFORMANCE

Bridges/Culverts in nos., length in km

S. No.	Name of Scheme	Achievements (2019-20)		Targets (2020-21)	
		Bridges/Culverts/Structures	Roads length	Bridges/Culverts/Structures	Roads length
Construction and Maintenance					
1	Comprehensive Road Infrastructure Development Programme				
	State Highways	28/236	453	25/502	506
	Major District Roads	20/297	598	25/300	873
	Other District Roads	86/649	1835	35/420	1669
	Other District Roads Special Component Plan (CRIDP)	0/12	311	6/20	416
	Sub-Total	134/1194	3197	91/1242	3464

	IRQP	-	1602	-	3095
	Roads/ Bridges	134/1194	4799	91/1242	6559
	Buildings	-	-	10	-
	Tsunami – Rehabilitation Scheme (Centrally assisted)	-	-	1	-
NABARD and Rural Roads Wing					
2	Construction of bridges in Government and Rural roads	90	-	70	-
3	Rural Roads Scheme	-	-	1	-
4	ADB assisted Projects (TEAP)	-	-	-	-
5	By-pass Road works (LA)	-	-	-	-
6	Upgradation of Panchayat Union Roads / Panchayat Roads (Infrastructure Fund)	-	1455.00	-	2084.21
	Total	90	1455.00	71	2084.21
Projects Wing					
7	Road over/ under bridges in lieu of existing Level Crossings –JJ	2	0	11	0
8	Construction of Over Bridges/ Under Bridges in lieu of level crossings –JT	2	0	5	0

9	Construction / Reconstruction of bridges JE	0	0	2	0
10	Construction of over and under bridges in lieu of existing level crossings - JG	0	0	2	0
11	Comprehensive Road Infrastructure Development Programme (CRIDP)				
(11i)	State Highways (JI - CRIDP)	0	0	1	0
(11ii)	Other District Roads (JU - CRIDP)	1	0	7	0
	Total	5	0	28	0
12	Chennai Metropolitan Development Plan				
	a) ROB/RUBs	0	0	1	0
	b) Grade Separators	0	0	6	0
	c) River Bridges	0	0	1	0
	d) FOB/Skywalk	0	0	1	0
	e) Roads / Bridges	0	0	1	2.63
	Total	0	0	10	2.63
	National Highways				
13	Revamped Central Road Fund Scheme	1	823.86	14	466.78
14	Inter State Connectivity scheme	-	12.60	-	28.60
	Total	1	836.46	14	495.38

1.3 PERFORMANCE UNDER NON-PLAN SCHEMES

An allocation of Rs.1035.76 Crore was made for maintenance of roads and bridges and renewal of 1082 km length of roads has been completed at an expenditure of Rs.376.24Crore.

1.3.1 FINANCIAL PERFORMANCE

The financial performance indicating the details of expenditure incurred during 2019-20 under various heads of Non Plan and allocation for 2020-21 is given in **Table 7**.

TABLE 7: NON PLAN-FINANCIAL ALLOCATION AND EXPENDITURE

Rs.in lakh

S. No.	Name of Scheme	Budget Estimate	Expenditure upto Feb 2020	Budget Estimate 2020-21
		2019-20		
1	National Highways Urban	250.94	161.54	268.51
2	Maintenance of Certain important Roads in the City of Chennai	2321.70	1615.47	2800.00
3	State Highways	19367.50	8838.25	14633.82
4	Major District Roads	17594.67	10334.33	11949.08
5	Other District Roads	61905.84	16354.82	42655.25
6	Sugarcane Roads	2034.77	300.99	2238.25
7	Improvements to Nilgiris Ghat Roads	100.78	18.71	160.00
	Total	103576.20	37624.11	74704.91

1.3.2 PHYSICAL PERFORMANCE

The length of roads renewed under Non plan maintenance during 2019-20 and the target for 2020-21 is given in **Table-8**.

TABLE 8: PHYSICAL PERFORMANCE OF NON PLAN SCHEMES

Length in km

S. No.	Name of wing	Achievement 2019-20 upto Feb 2020	Target 2020-21
1.	Construction and Maintenance	1082	2500

2. PERFORMANCE UNDER MAJOR SCHEMES AND DETAILS OF KEY PROJECTS

An amount of Rs.11749.45 Crore was provided in the Budget Estimate for Highways Department for the year 2019-2020, and the expenditure incurred under Plan Schemes is Rs.7185.95 Crore.

2.1 STATE FUNDED SCHEMES

2.1.1 COMPREHENSIVE ROAD INFRASTRUCTURE DEVELOPMENT PROGRAMME (CRIDP)

Developing road infrastructure in a holistic manner is the objective of this scheme. Works like road widening, strengthening, improving the riding condition of roads, forming of bypasses, culverts, road safety works etc are taken up under this scheme to augment capacity of roads to meet the growing traffic demands. Geometric improvements, improving accident-prone spots, center median are also taken up to enhance road safety aspects.

During 2019-20, road works to a length of 3196km and 134Bridges / Culverts / 1328Protective works have been completed incurring an expenditure of Rs.2923.44Crore upto the month of February 2020. Under IRQP component, an expenditure of Rs.345.97 Crore was incurred and a length of 1602 km has been completed.

2.1.1.1 CRIDP – STATE HIGHWAYS

In 2019-20, spill-over works at a cost of Rs.685.80 Crore were taken-up comprising widening/ improvements to 488.63 km length of roads and construction of 253 bridges/ culverts/ protective works.

Further, New works of widening and improvements to 469.13 km length of roads, construction of 11 bridges/ culverts and 506 protective works were sanctioned at a cost of Rs.1056.49 Crore and are under progress.

During 2019-20, widening/ improvements in 452 km length of roads and 264 bridges/ culverts/ protective works have been completed at an expenditure of Rs.960.34Crore upto February.

The second level Gandhipuram flyover at a cost of Rs.75 Crore has been completed and opened to traffic on 29.01.2020.

2.1.1.1.1 Construction of High Level River Bridge across River Thamirabarani at Tirunelveli

In 2017-18, Government have accorded Administrative Sanction for Rs.16.50 Crore for the work of construction of a High Level Bridge across River Thamirabarani Parallel to old Bridge Near Tirunelveli Junction at Km 150/2 of Madurai-Kanniyakumari Road and the work is in progress.

2.1.1.2 CRIDP –MAJOR DISTRICT ROADS

In the year 2019-20, spill-over works of widening and improvements to 665.06 km length of roads and construction of 153 bridges/ culverts/ protective works were taken-up at a cost of Rs.471.50Crore.

In addition, 2019-20, widening and improvements to 805.14 km length of roads, construction of 1 bridge, 8 culverts and 450 protective works were sanctioned at a cost of Rs.867.56Crore and are in progress.

Widening/ improvements in 598 km length of roads and 317 bridges/ culverts/ protective works have been completed at an expenditure of Rs.649.42 Crore upto the month of February in the year 2019-20.

2.1.1.2.1 Construction of High Level River Bridge across Surplus Canal of Wellington Reservoir in Cuddalore District

In 2017-18, Government have accorded Administrative Sanction for Rs.11.85 Crores for work of Construction of High Level Bridge across surplus canal of Wellington reservoir at km 3/8 of Thittakudi – Sirupakkam road in Cuddalore District and the work is in progress.

2.1.1.3 CRIDP –OTHER DISTRICT ROADS

Spill-over works for the year 2019-20 at a cost of Rs.1621.44Crore comprising of widening and improvements to 1904.603km length of roads and construction of 355 bridges/ culverts/ protective works were taken-up.

In addition, during 2019-20 works of widening and improvements to 1599.22km length of roads, construction of 35 bridges/ culverts and 746 protective works have been sanctioned at a cost of Rs.1310.23 Crore are in progress.

Widening and improvements in 1835 km length of roads and 735 bridges/ culverts/ protective works have been completed in the financial year 2019-20 upto February at an expenditure of Rs.1153.88 Crore.

The following High Level Bridges (HLBs) were Sanctioned under CRIDP – ODR and the works are in progress.

1. Construction of High Level Bridge across Noyyal River near Chikkana College, Tiruppur for Rs.3.85 Crore.
2. Construction of High level bridge across the river Virusuliat km 2/8 of Kannankudi – Kookudi road at Sivagangai for Rs.9.00 Crore.
3. Construction of High level bridge across the river Cheyyar at Km 0/8 of Thandarai – Eraiyur road at Thiruvannamalai District for Rs.17.04 Crore.
4. Construction of High Level Bridge across the river Sankaraparani at Km 1/8 of Rettanai – Marur road in Villupuram District for Rs.8.61 Crore.
5. Construction of High Level Bridge across the river Thondiyar at Km 5/4 of AlagramamThenputhur road branching at Km 21/0 of Vellimedupettai - Mailam Road in Villupuram District for Rs.8.65 Crore.
6. Construction of High Level Bridge across the river Gedilam at Km 5/0 of Arungkurukkai Road branching at Km 59/10 of Cuddalore - Chittoor road in Villupuram District for Rs.10.05 Crore.
7. Construction of High Level Bridge across the river Vaigai connecting Paravai in SHU-100 and Thuvariman in Madurai- Melakkal road in Madurai District for Rs.16.13 Crore.

2.1.1.4 CRIDP - OTHER DISTRICT ROADS – SPECIAL COMPONENT PLAN

Widening / improvements to 343.875km length of roads and construction of 13 bridges / culverts as spill over works were taken-up in the year 2019-20 at a cost of Rs.195.03 Crore.

In addition during 2019-20 works of widening and improvements to 383.08km length of roads, construction of 17 protective works were

sanctioned in 2019-20 at a cost of Rs.247.41 Crore and are being implemented.

Road works to a length of 311 km and 12 protective works have been completed during 2019-20 at an expenditure of Rs.159.86 Crore upto February.

2.1.1.5 CRIDP - Improvements to RIDING QUALITY PROGRAM (IRQP)

This component under CRIDP Scheme was introduced in the year 2018-2019 to cover more length of roads.

Spill-over works of Improvement of Riding Quality in 1122 km length of roads were taken-up in the year 2019-20 at a cost of Rs.262.21 Crore.

New works under IRQP for 3597.20 km length of roads were sanctioned at a cost of Rs.1039.78 Crore during 2019-20 and works are in progress.

Road works to a length of 1602 km were completed during 2019-20 upto the month of February at an expenditure of Rs.345.97 Crore.

2.1.2 PERFORMANCE BASED MAINTENANCE CONTRACT (PBMC)

Performance Based Maintenance Contract is an innovative approach of road maintenance followed in various countries. This is a cost effective and time saving initiative to keep the roads in optimal riding condition throughout the year.

Under this Scheme all State Highways and Major District Roads of a Division are taken up for a 5-year contract period. The components of PBMC scheme are Initial Rectification, Periodical Renewal, Minor Improvements, Ordinary Maintenance and Emergency works.

The Performance Based Maintenance Contract has been introduced in Pollachi Division in February 2014 in 377.38 km length of roads and completed in February 2019. PBMC was sanctioned for 1372 km of SHs and 1196 km of MDRs in total in Krishnagiri, Ramanathapuram during 2015, Tiruvallur during 2016 and in Virudhunagar during 2017 PBMC at a cost of Rs.2152.65 Crore. Maintenance works in these divisions are in progress now.

In 2019-20, Performance Based Maintenance Contract has been approved for Palani, Sivagangai Divisions at a cost of Rs.1403.26 Crore for

1065.85 km length of roads. Initial rectification works are in progress in Palani and tender is under process in Sivagangai. Also, PBMC in Thanjavur has been sanctioned during 2019-20 at a cost of Rs.1947.23 Crore for 833.658 km length of roads.

Budget allocation for the year 2020-21- Rs.940.61 Crore.

2.1.3 WORKS IN THE EXTENDED GREATER CHENNAI CORPORATION AREA

In order to enhance the road infrastructure facilities within the Extended Chennai Corporation area, Government have sanctioned various works as tabulated below:

TABLE 9: WORKS IN EXTENDED GCC AREA

Rs.in Crore

Detail	No. of works	Amount
Phase – I	14	250
Phase – II	22	150
Total	36	400

All these works have been completed.

During 2019-20, Government have sanctioned 11 works at a cost of Rs.106.51 Crore. These works are in initial stage of implementation.

2.1.4 FORMATION OF ROAD GRIDS ALONG CHENNAI OUTER RING ROAD

For the effective dispersal of traffic emanating from the Chennai Outer Ring Road (CORR), the preparation of Detailed Project report for the Development of Road Grids was taken up at a cost of Rs.5.22Crore.

The DPR work has been completed for 14 Grids covering 25 roads. The widening of 4Lane/ 2Lane/ single lane roads are proposed for widening to 6Lane/ 4Lane/ 2Lane +Paved Shoulder configuration. Land acquisition /Works will be considered in a phased manner.

2.1.5 TAMIL NADU INVESTMENT PROMOTION PROGRAM- PHASE II (TNIPP-II)

Mahindra Industrial Park Chennai (MIPCL), is located at Pudukkottai of Gummidipoondi taluk and Eliambedu of Ponneri taluk of Tiruvallur district. Four laning of the existing road was sanctioned to facilitate faster cargo container traffic. Widening of the Pudukkottai – Pulicat Road from km 2/0 - 6/2 to four lane was sanctioned under TNIPP. Work will be taken up after completion of Land Acquisition.

2.1.6 ROAD SAFETY WORKS

The Department has taken up various improvements to reduce the accidents involving the other stake holders department in a holistic manner. The loss due to road accidents is enormous. The department takes various steps in coordination of all stake holders to minimize the loss. The preventive measures taken includes installation of cautionary sign boards at critical locations, speed control measures, crash barriers, road furniture etc.

The Road Safety Audit has been conducted and completed in all the State Highways and Major District Roads of Highways Department as per the guidance of the Supreme Court Committee on Road Safety.

After analyzing all the roads, the suggestions on the identified locations were given by the Road Safety Audit Team. As per the suggestions given by the Road Safety Audit team the improvements of the identified locations are being taken up under various schemes like Road Safety, Comprehensive Road Infrastructure Development Program etc.

Under Road Safety Fund a sum of Rs.600 Crore has been sanctioned for Road safety works since 2014-15. In the CRIDP scheme also, road safety works were taken up from 2014-15 onwards. Thus, road safety works to a tune of Rs.2087.16Crore were taken-up under road safety funds and CRIDP so far.

During 2019-20, Government have sanctioned 1261 no of works at a cost of Rs.319 Crore in CRIDP and 664 no of works in Road Safety for the year 2018-19. These works are in progress.

During 2019-2020, 453 no of road safety works have been completed at an expenditure of Rs.59.11 Crore was made upto February 2020 under this scheme.

2.1.7 STATE INFRASTRUCTURE AND AMENITIES DEVELOPMENT FUND

Government have sanctioned 15 works at a cost of Rs.84.18 Crore in Krishnagiri, Madurai, Perambalur, Sivagangai and Theni districts under State Infrastructure and Amenities Development fund and the work in Perambalur district has been completed. The balance works are in progress.

2.1.8 DETAILS OF DPR WORKS

2.1.8.1 GRADE SEPARATORS

During 2019-20, an amount of Rs.100.63Lakhs was sanctioned for preparation of Detailed Project Report for construction of 5 Grade separators in Madurai, Theni, Tirupur and Krishnagiri districts. The investigation works are in progress. Further an amount of Rs.6.81 Lakh has been sanctioned for preparing Detailed Feasibility Report for the work of construction of Elevated Corridor in Erode district.

2.1.8.2 IMPROVEMENTS OF WORKS IN CORPORATION LIMITS

For the preparation of Detailed Project Report for enhancing and improve the infrastructure facilities in city road network lying within the Corporation limits, Government have sanctioned Rs.252.73 lakh in Madurai, Dindigul, Thanjavur, Thoothukudi, and Trichy. The preparation of DPR work is in progress.

2.1.9 PERMANENT FLOOD RESTORATION WORKS

During 2018-19, Government have sanctioned Rs.514.05 Crore for construction of culverts, minor bridges, major bridges, box culvert, retaining wall, drain and equipping with pumps, excavators, to enhance handling of flood restoration works.

Further Government have also sanctioned an amount of Rs.2.16 Crore for preparation of DPR for 21 bridges. All works are in progress. Out of which, Government have sanctioned Rs.76.28 Crore for Construction of 8 no of bridges in Thanjavur district. Balance DPR works are in progress.

During 2019-20, Government have sanctioned an amount of Rs.112.07Crore for 200 Nos of Flood Restoration works such as Paver blocks, Drains, Protective walls and Culverts etc in Udagai, Pollachi and Coimbatore divisions. All works are in progress.

2.1.10 MAINTENANCE WORKS

Phenomenal increase in the vehicular traffic causes speedy deterioration of the riding surface. Timely intervention such as patch works, maintenance of berms, clearing the water ways, drains, jungle clearance will increase the design life of the roads and reduction in the life cycle cost of the roads.

Renewal for 1082 km length of roads have been completed at an expenditure of Rs.376.24 Crore during the year 2019-20 upto February.

2.1.11 TSUNAMI REHABILITATION PROGRAMME

During 2019-20, 3 spill-over bridge works were taken-up and out of these, Coastal Regulation Zone (CRZ) clearance has been obtained for one work in Tiruvallur district near Pasiyavaram Birds Sanctuary from Ministry of Environment and Forest. Work has to be commenced.

2.1.12 UPGRADATION OF PANCHAYAT UNION ROADS / PANCHAYAT ROADS

Under this scheme, spillover work of 552 roads to a length of 1635 km & new works of 713 roads to a length of 1904.21 km at a total cost of Rs.2276.11 crore have been taken up for execution. During this Financial year 2019-20 upto February, 494 Roads to a length of 1455 km have been completed with an expenditure of Rs.782.35 crore.

2.1.13 RIVER BRIDGE WORKS

2.1.13.1 Completed River Bridge works

1. Reconstruction of High Level Bridge across the river Thenpennai at km 2/6 of VCC road to Pathakotta road in Krishnagiri District for Rs.2.85 Crore.

2.1.13.2 Works in Progress

1. Construction of High Level Bridge across the River Coleroon at Kallanai connecting Thiruvanaikoil Road and Grant Anaicut Road in Thanjavur District for Rs.61.02 Crore.
2. Construction of High Level Bridge across the river Pambar with approaches near Chithirambur in Pudukottai district Rs.18.82 Crore.

2.1.14 ELEVATED CORRIDORS/ FLYOVERS

Two Elevated Corridors and One Flyover has been sanctioned for DPR preparation at a total cost of Rs.6.37 crore.

1. Construction of Elevated Highway along Avinashi road in Coimbatore City from Uppilpalayam to Chinniampalayam - Kalapatti Airport
2. Construction of Elevated Bridge for a length of 5.40 Km from Kalinkarayan Illam to Thindal medu (Km.2/0-7/4 of Erode-Perundurai-Kangeyam road).
3. Construction of Flyover from km 0/0 to 6/2 of Tiruppur – Perumanallur – Kunnathur – Perundurai road (SH-196) (Pushpa Theatre to Pandian Nagar)

2.1.15 DETAILED PROJECT REPORT PREPARATION IN THE YEAR 2019-20

During 2019-20, Government have accorded sanction for Rs.5.48 Crore for the preparation of Detailed Project Report for the construction of 42 works under Projects wing. The DPR preparation works are in process.

2.1.16 LA WORK SANCTIONED IN THE YEAR 2019-20

During 2019-20, Government have accorded sanction for Rs.94.71 Crore for carrying out Land Acquisition for 2 works under Projects wing in 2 districts. For these works Land Acquisition process is under progress.

2.1.17 ERODE OUTER RING ROAD

The Government have sanctioned Erode Outer Ring Road from Kokkarayanpettai to Thindal, Erode for a total length 14.80 Km, involving Phase I, II & III. The Project involves construction of a high level bridge across Cauvery River under Phase I (Km 0/0 to 2/2) and 5.4 Km under Phase II (Km 2/2 to 7/6), both of which were completed and opened for traffic. Administrative Sanction was accorded for Rs.69.30 Crores for Phase III (Km 7/6-14/8) with a ROB (Km 11/2 – 11/6) and work is in progress.

2.1.18 CHENNAI METROPOLITAN DEVELOPMENT PLAN (CMDP)

The Chennai Metropolitan Development Plan (CMDP) is being implemented since 2003-04 through the State Budgetary resource, executing major projects identified under CTTS, on priority basis.

During 2019–20, an amount of Rs.125.52 Crore has been spent for these works under CMDP Plan. Further an expenditure of Rs.20.82 Crore has been incurred for ROB/RUBs under Project wing's head.

During 2019-20, Seven Grade-Separators, Eight ROB/RUBs, Three River Bridges, Four Road Works and One Skywalk were taken up as spill-over works. In addition, One Grade Separator, three road works and a River Bridge were also taken up as new works.

2.1.18.1 GRADE SEPARATORS

During 2019-20, Seven Grade separators costing Rs.593.65 Crore were taken up as Spill over works. Out of this, 6 works are under construction. Land acquisition is in progress for one work. The details are given below:

2.1.18.1.1 Works in progress

1. Grade Separator at Pallavaram for Rs.82.66 Crore.
2. Grade Separator at Velachery Vijayanagaram junction for Rs.108.00 Crore.
3. Grade Separator at KaliyammanKoil road junction CMBT, Koyambedu for Rs.93.50 Crore.
4. Grade Separator at Medavakkam for Rs.146.41 Crore.
5. Grade Separator at Kilkattalai for Rs.64.00 Crore.
6. Grade Separator at Kolathur Rettai Eri (RHS) for Rs.41.08 Crore.

2.1.18.1.2 Land Acquisition in progress

7. Grade Separator at Thiruvanmiyur Junction for Rs.58.00 Crore.

Further, Out of 15 Grade Separators, 12 Grade Separators and the Grade Separator at Madhya Kailash are proposed to be taken up in Chennai City Traffic Decongestion Project (CCTDP) with external funding assistance from New Development Bank (NDB) and are in DPR Stage. The remaining three works are as follows:

- Administrative Sanction has been accorded for Rs.219.92 Crore and estimate is under preparation for the work of Grade Separator at Thiruvanmiyur junction.
- A comprehensive study to decongest the traffic in Poonamalle High Road from Anna Arch junction to Koyambedu junction is in progress,

as recommended by the Steering Committee for the work of Grade Separator at Nelson Manickam Road (Section -IV)

For the work of Grade Separator at Pulla Avenue, DPR is completed and LA Impact Assessment is in progress.

2.1.18.2 RIVER BRIDGES

During 2019-20, three river bridges at a cost of Rs.102.04 Crore were taken up as spillover works of which one work is under construction, Land Acquisition is in progress for two works. The stages are listed below;

2.1.18.2.1 Work in progress

1. High level bridge across Buckingham Canal at Km 0/6 of Thiruvottriyur –Ponneri –Panchetty Road at a cost of Rs.58.64 Crore.

2.1.18.2.2 Land Acquisition in progress

2. High level bridge across Coovam River at Nolambur road (LA only) for Rs.36.00 Crore.
3. Land acquisition for High level bridge across Coovam River at km 14/4 of M.P.A road at Paruthipattu (LA only) for Rs.7.40 Crore.

Further, the work of High Level Bridge across Coovam river at Padikuppam is now proposed to be taken up under CCTDP with external funding assistance from NDB and is in DPR stage.

2.1.18.3 FORMATION OF NEW LINK / WIDENING OF ROAD WORKS

To reduce the travel time, trip length and additional user costs formation of new link is inevitable and to increase the road way capacity widening of roads is necessary.

During 2019-20, Formation of One road work and LA for three road works were taken up as spill-over costing Rs.1094.39 Crore and are in progress. The details are given below;

2.1.18.3.1 Work in Progress

1. Formation of Tambaram Eastern bypass Km 5/450 – 8/080 for Rs.36.69 Crore.

2.1.18.3.2 Land Acquisition in progress

2. Formation of Tambaram Eastern Bypass road at km 0/0-8/4(LA only) for Rs.75.50 Crore.
3. Forming Six lane of ECR from Km 11/8-23/2 from Thiruvanmiyur to Akkarai (LA only) for Rs.778.00 Crore.
4. Forming link road and construction of bridge across Buckingham canal connecting Rajiv Gandhi and ECR at Neelankarai for Rs.204.20 Crore.

2.1.18.4 PEDESTRIAN INFRASTRUCTURE FACILITIES

Pedestrians are the most vulnerable users at road intersections. Pedestrian crossing improvements provide various levels of protection for pedestrians.

2 spillover pedestrian subway works at the following locations had been taken up.

- Construction of Pedestrian Subway in Anna salai near Chinnamalai A.G Church
- Construction of Pedestrian Subway in GST Road at Guindy near the Junction of MKN Road

During field study of the above works, it was assessed that due to the existing underground utilities, Pedestrian Subway is not feasible. Hence, alternate proposal have been studied and it is proposed to provide Foot Over Bridge at both the locations. The work at MKN road junction is being taken up by Construction and Maintenance wing.

Further, the work of Construction of Foot Over Bridge at Km 9/300 in Inner Ring road near Kendriya Vidhyalaya School is now proposed to be taken up under CCTDP with external funding assistance from NDB and is in DPR stage.

2.1.18.5 SKYWALK

Skywalk is an elevated walkway built over a road, linking two or more locations. It serves as a pertinent solution for safe & secured pedestrian crossing.

To connect the Railway station and bus terminals in Tambaram, construction of FOB and Skywalk with escalator at Km 25/6 of GST Road,

Tambaram was taken up as a spillover work and is in progress for Rs.19.75 Crore.

Further, the work of Providing Skywalk, Escalator and other accessories connecting East Tambaram to West Tambaram is in DPR stage and is now proposed to be taken up under CCTDP with external funding assistance from NDB.

2.1.18.6 WORKS ADMINISTRATIVELY SANCTIONED DURING 2019-20

The following 14 works have been administratively sanctioned in 2019-20 and are in various stages as below:

2.1.18.6.1 Land Acquisition in Progress

1. Formation of New Link Road connecting Greenways Road (DGS Dhinakaran Salai) with Durgabhai Deshmukh road through TamilNadu Music College for Rs.22.84 Crore

2.1.18.6.2 Estimate Stage

2. High Level Bridge across Coovum river connecting Km 14/4 of Mount –Poonamallee - Avadi road and Paruthipattu- Thiruverkadu Municipal Road for Rs.16.784 Crore.
3. Grade Separator at the intersection of Lattice Bridge Road and East Coast Road at Thiruvanmiyur junction for Rs.219.92 Crore.
4. Widening the East Coast Road (ECR) to Six lane from Km 14/550 – 15/700 at Palavakkam Village for Rs.15.85 Crore.
5. Formation of Tambaram Eastern Bypass road branching from Km 3/900 – 5/450 for Rs.52.61 Crore.

Also, two DPR projects and seven DFR projects have been sanctioned for an amount of Rs.222.87 lakhs and are in progress. The details of the projects are as follows:

- Preparation of DPR for the work of (i) Construction of Grade Separator at the junction of Ambattur Estate bus depot and (ii)Construction of Foot Over Bridge in Thirumangalam - Mugappair road near DAV School and Velammal School.
- Preparation of DFR for (i) forming bund road along Adyar River from T.V.Ka. Bridge to Maraimalai Adigalar Bridge, (ii) decongesting traffic

from Halda Junction to Light House via Sardar Patel Road, Adyar, Greenways Road and Santhome High Road, (iii) From Vadapalani Junction to Porur junction, (iv) from Chinnamalai to Velachery Bypass junction,(v)near Ambattur telephone exchange (vi) at Basin Bridge Junction in Wall Tax road (vii) at Vyasarpadi junction near Ambedkar Law College.

A sum of Rs.125.52 Crore (up to February) has been spent, under this scheme during 2019-20.

2.1.19 CHENNAI CITY TRAFFIC DECONGESTION PROJECT (CCTDP)

In order to relieve the traffic congestion at various junctions in Chennai Metropolitan Area (CMA),18 projects viz 13 Grade Separators at the junctions of Madipakkam, Kattupakkam, Akkarai, Ambattur, Avadi, Madhavaram, Ramapuram, Kundrathur, Kaiveli, Selaiyur, Korattur, Vadapalani PT RajanSalai Junction and Madhyakailash, , 1- High Level Bridge at Padikuppam, 1- FOB at Kendriya Vidyalaya at Km 9/300 in IRR &1- Skywalk at Tambaram, a Widening of ROB at Korattur and Construction of ROB at Ambattur are proposed to be taken up under Chennai City Traffic Decongestion Project (CCTDP) through external funding assistance from New Development Bank(NDB).

Initially, sanction for an amount of Rs.1121.57 Crore has been accorded for Land Acquisition. Further, these CCTDP works will be taken up in three tranches, one by one depending upon the quantum of Land acquisition and availability of work front. All the 18 projects are in DPR stage.

2.1.20 BYPASSES

Bypasses help in diversion of through traffic and decongest the heavily populated cities and towns. Bypasses help in efficient transportation and reduce vehicle operating cost. Preparation of Detailed Project Report and land acquisition works are taken in the first phase.

For formation of Bypass road to Tharamangalam town in Salem district Rs.20.00 Crore has been administratively sanctioned under CRIDP scheme and the work has been completed in all aspects, opened for traffic on 21.07.2019.

Formation of bypasses at Tiruttani, Erode Outer Ring Road (Phase III), and Kallimandhayam in Dindigul District are in progress. Formation of bypasses at Manachanallur will commence soon.

Land acquisition for the formation of 40 Bypasses in major towns are in progress. Further 23 nos. of bypasses are in DPR stage.

In National Highways under Annual Plan, Land Acquisition for forming bypass to 4 towns are in progress and preparation of Detailed Project Report 5 towns are in progress.

2.1.21 RESEARCH WORKS UNDER TANII SCHEME

Highways Research Station has taken-up the following research schemes, under Tamil Nadu Innovation Initiatives funds for the financial year of 2015 - 16, sanctioned during 2016-17 for Rs.283.70 lakhs.

- Accident study for vulnerable road users.
- Study on performance of Bituminous pavement laid over stabilized sub-base

The research scheme on “Accident study for vulnerable road users” has been completed. The study on performance of Bituminous pavement laid over stabilized sub-base is under field observation for the period of 3 years i.e. 2017-2020 and an expenditure of Rs.271.71 lakhs has been incurred so far.

During the financial year of 2017 - 18, the following three research schemes were sanctioned under TANII funds.

TABLE 10: DETAILS OF FUND SANCTIONED

Rs.in lakh

S. No.	Name of scheme	Funds sanctioned				Remarks
		2017-18	2018-19	2019-20	Total	
1.	Study on improving the sub-grade soil by adding quarry dust.	5.00	0.00	0.00	5.00	Work completed

2.	Study on the technology of long lasting pavement including Construction of Circular Test for Model Study.	195.00	2.00	3.00	200.00	Work in progress
3.	Bridge instrumentation for Structural Health Monitoring System.	55.00	5.00	5.00	65.00	Work in progress
Total		255.00	7.00	8.00	270.00	

In the above works an expenditure of Rs.190.61 lakhs has been made so far.

For the financial year of 2018 – 19, following research scheme were sanctioned under TANII funds.

TABLE 11: DETAILS OF FUND SANCTIONED

Rs.in lakh

S. No.	Name of scheme	Funds sanctioned	Remarks
		2018-19	
1.	Study on effect of Nano Clay in Bituminous Mixes	4.00	Lab study completed. Report under preparation.

For the financial year of 2019 – 20, two research schemes were approved under TANII funds as follows:

- Study on the performance of jute fiber reinforced cold bituminous mixes.
- To study the effectiveness of curing compounds on concrete pavement.

2.1.22 DESIGN WORKS COMPLETED

2.1.22.1 WORKS COMPLETED DURING THIS FINANCIAL YEAR (UPTO FEBRUARY 2020)

- Preparation of design, drawings and estimate for 38 River bridges, 4 ROBs, one RUB and one LUS have been completed.

- Revision of design and drawings of 10 River bridges, 6 ROBs, one RUB, 3 Grade separators, one Flyover and one Two-tier Flyover have been completed.
- Proof checking of Design and Drawings prepared by consultants for 5 works has been carried out.

Totally 71 works have been completed by this wing during April 2019 to February 2020.

2.1.22.2 PROGRAMME OF WORK AS ON DATE

As on date 52 works are in hand at various stages. In addition, the bridge works to be sanctioned during this financial year are also to be taken up for designing.

2.2 GOVERNMENT OF INDIA (GOI) FUNDED SCHEMES

2.2.1 NATIONAL HIGHWAYS WORKS

6634 Km length of National Highways are within the State's boundary. Of this, 1900 km length of roads are improved / maintained by National Highways wing of the State utilizing the Government of India funds. Remaining 4734 km length of roads are being maintained by National Highway Authority of India (NHAI).

2.2.1.1 NATIONAL HIGHWAYS - ANNUAL PLAN

During 2019-20, 52 works of 283.86 km length, at a cost of Rs.1533.29 Crore, have been taken-up as spill-over works. In 2019-20, Ministry of Road Transport and Highways has sanctioned 5 no. of works for 26.71 km length and 7 bridge works at a cost of Rs.167.10 Cr and the works are in tender stage.

In 2019-20, 96.95 km length have been completed at a cost of Rs.460.35 crore upto February 2020.

2.2.1.2 Periodical Renewal (PR) / Improvement of Riding Quality programme (IRQP)

Under PR/IRQP in 2019-20, 8 road works of 53.952 km length were sanctioned at a cost of Rs.48.77 Cr and are in progress. Further, additional 5 road works to a length of 44.66 km amounting to Rs.44.50 Cr have been sanctioned by the Ministry.

In 2019-20, Rs.9.91 Cr expenditure has been incurred upto February 2020 under this scheme.

2.2.1.3 Schemes sponsored by Government of India

2.2.1.3.1 Revamped Central Road Fund Scheme

During 2019-20, 147 road works of 1290.64 km length and 15 bridge works, at a total cost of Rs.2517.08 crore were taken-up as spill over under this scheme. Of this, 101 works for a length of 823.86 km and 1 bridge work have been completed at an expenditure of Rs.1046.11 crore and the balance works are in progress.

A budget provision of Rs.928.29 Crore has been made for the financial year 2020-21 by the State Government under this scheme.

2.2.1.3.2 Inter State Connectivity Scheme

During the year 2019-20, 1 spill-over road work to a length of 41.20 km was taken-up at a value of Rs.72.91 crore as spill over and is in progress.

In 2019-20, the proposal for 4 road works to a length of 29.25 km amounting to Rs.96.76 Cr have been sent and is under consideration of GoI for sanction of funds

2.2.1.3.3 Pradhan Mantri Gram Sadak Yojana (PMGSY)

PMGSY has also been launched by the GoI for providing connectivity to unconnected rural habitations as part of poverty alleviation and also for upgradation of roads. NH wing takes up upgradation of "Other District Roads" through PMGSY funds.

The GoI provides funds for upgrading "Other District Roads" under this scheme. The improvement works were completed and the roads are now under maintenance.

A budget provision of Rs.2.10 Crore has been made for the financial year 2020-21 by the State Government under this scheme.

2.2.1.4 OTHER SCHEMES

2.2.1.4.1 Sethu Bharatam - Construction of ROB / RUBs in lieu of Existing Level Crossings on NHs

Sethu Bharatam Scheme has been launched by MoRT&H, to replace LCs with ROB/RUBs.

Under this scheme, Ministry of Road Transport and Highways has engaged consultant for the preparation of Detailed Project Report for the construction of 6 ROB / RUB in lieu of existing level crossings on National Highways and are nearing completion. After completion of DPR, the work will be taken up in future Annual Plan schemes.

TABLE 12: LIST OF ROB/RUBs PROPOSED UNDER SETU BHARATAMSCHEME

S.No.	NH No.	Location
1	49 Ext	km 22/2 (Near Checkkanurani)
2	49 Ext	km 72/6-7 (Near Theni)
3	49 Ext	km 93/4 (Near Bodi)
4	208	km 99/4 (Near TenkasiElanchi)
5	234	103/4 (Polur – Mathimangalam)
6	234	km 81/6 of (Kannamangalam –Kaniyambadi)

2.2.1.4.2 Bus Ports

With a view to improve the facilities for the passengers of public transport and augment with modern technological facilities, bus ports have been envisaged as a sub-component of National Corridors Efficiency Program Component of Bharatmala Pariyojana. The bus ports have been proposed at Salem and Madurai.

Of this, the MoRT&H have accorded in-principle approval for construction of bus port at Salem. The field data collection viz., topographical survey soil investigation, bus count and passenger related survey has been done by National Highways and Infrastructure Development Corporation (NHIDCL), New Delhi by engaging consultant M/s DIMTS (Delhi Integrated Multimodal transit system Ltd.,) and draft DPR prepared. The additional requirements in

bus port has been informed to NHIDCL for inclusion in DPR. On finalisation, the Salem bus port work will be implemented.

The proposal for Busport at Madurai has been sent to NHIDCL for preparation of DPR.

2.2.1.4.3 Works Entrusted by NHAI

The work for widening between Irumbuliyur to Vandalur (2.30km) to eight-lane standards, at a cost of Rs.20.77 Crore are approved by NHAI which is nearing completion and widening from Vandalur to Guduvancherry (5.3 km) at a cost of Rs.44.48 Crore is in progress.

2.3 NABARD LOAN ASSISTANCE SCHEME

2.3.1 CONSTRUCTION OF BRIDGES IN GOVERNMENT AND PANCHAYAT UNION ROADS

Under this scheme spillover works of 217 bridges at a cost of Rs.582.18 Crore have been taken up and no new works were sanctioned during 2019-20. In the Financial year 2019-20, upto February 90 Bridges were completed with an expenditure of Rs.209.25 Crore.

2.3.2 RURAL ROADS SCHEME

Under this scheme, spill over work of construction of Anakaputhur-Tharapakkam bridge at a cost of Rs.7.94 Crore in Panchayat Union Roads has been taken up for execution. For this work, out of 11 decks, 9 decks were already completed and for the balance work, Indian Air Force land is involved for which the enter upon permission has been obtained. Now the balance work is in progress.

2.4 RAILWAY WORKS PROGRAMME(RWP)

2.4.1 CONSTRUCTION OF ROAD OVER / UNDER BRIDGES AT RAILWAY LEVEL CROSSINGS UNDER RAILWAY WORKS PROGRAMME

In order to reduce the vulnerability of accidents, to eliminate detention time and to avoid traffic congestion at the Level Crossings, the Road Over Bridges/ Road Under Bridges are being constructed at level crossings where Train Vehicle Unit exceeds 1 Lakh on 50:50 cost sharing basis.

Under Railway Works Programme, totally 97 works were sanctioned at a total cost of Rs.1747.31 crore. In which 47 works were sanctioned for execution and remaining 50 works were sanctioned for preparation of Detailed Project Report (DPR)/ Preliminary works such as Land Acquisition, Shifting of utilities and Preparation of DPR.

In the 47 works sanctioned for execution, 4 ROBs have been completed at a cost of Rs.209.94 crore, 28 works are in progress for a value of Rs.872.59 crore and remaining 15 works are in various pre-construction stages such as tender stage, Estimate stage, Design stage, etc., for Rs.375.84 crore.

Out of the 50 Works sanctioned for preparation of Detailed Project Report (DPR)/ Preliminary works, 22 ROB / RUBs are sanctioned for preliminary works at a cost of Rs.280.38 crore and for 28 ROB / RUBs, DPR works are in progress at a cost of Rs.8.56 crore.

2.4.2 CONSTRUCTION OF ROAD OVER BRIDGES / ROAD UNDER BRIDGES

13 Railway Over Bridges, 1 Railway Under Bridge and 1 Limited Use subway at a cost of Rs.263.35 Crore in lieu of the existing Level Crossings have been taken up for execution under the Railway Works Programme. Of these, during this Financial year, 3 ROBs (i.e.) one at LC 309 – **Dindigul Yard**, one at LC 403 – **Virudhunagar** and one at LC 371 – **Thiruparangundram** were completed with an expenditure of Rs.46.56 Crore.

2.4.3 ROB/ RUBS WITHIN CMA :-

During 2019-20, eight ROB/RUB at a cost of Rs.382.35 Crore have been taken up as spill-over works. Out of this, 2 works are in progress and remaining works are in various pre-construction stages. The details are given below:

2.4.3.1 Work in progress

1. LUS in lieu LC No.4 near Korattur at a cost of Rs.21.96 Crore.
2. ROB in LC No.32 near Perungulathur Railway station at a cost of Rs.206.08 Crore

2.4.3.2 Works in Tender Stage

3. LUS in lieu of LC No.27 near Chrompet Railway station at Radha Nagar at a cost of Rs.28.99 Crore.

2.4.3.3 Works in LA & DPR Stage

4. ROB in lieu LC No.14 near Veppampattu at a cost of Rs.29.50 Crore (LA)
5. RUB in LC No.4 near Thiruvotriyur-Ennore Railway stations at a cost of Rs.28.00 Crore (LA & DPR)
6. RUB in LC No.6 near Thiruvotriyur- Wimco Nagar Railway stations at a cost of Rs.25.50 Crore (DPR)
7. ROB in lieu LC No.16 in near Nandhiyambakkam Minjur Railway Station at a cost of Rs.28.32 Crore (LA)
8. RUB in lieu of LC No.22 near Tirusulam Railway station at a cost of Rs.14 Crore (DPR)

Further, the work of Construction of ROB at Km 75/6 of Chennai – Thiruttani- Renigunta Road is now proposed to be taken up under CCTDP with external funding assistance from NDB and is in DPR stage.

2.4.4 WIDENING OF ROB WITHIN CMA

As the width of the existing ROB in the following locations is in-sufficient for the present day traffic requirements, widening is proposed.

- Widening the existing ROB at Km 20/8 of Mount - Poonamallee - Avadi road at a cost of Rs.11.03 Crore has been sanctioned and is under consideration in Railways for inclusion in Railway Works Programme on cost sharing basis.

Widening the existing ROB at km 12/2-13/2 of Inner Ring Road (Dual Five lane) in DPR stage is included in CCTDP with external funding assistance from NDB.

2.5 EXTERNALLY AIDED PROJECTS

2.5.1 TAMIL NADU ROAD SECTOR PROJECT (TNRSP)

The Government have formed Tamil Nadu Road Sector Project –II, for upgrading high traffic road corridors in the State. The Loan and Project Agreement for 300 Million USD were executed with the World Bank. The

project covers road upgradation, maintenance, Institutional Capacity Enhancement and Road Safety (ICE &RS) measures.

2.5.1.1 Upgradation and maintenance through (EPC) contracts

Under Engineering Procurement & Construction Contract (EPC), contracts for construction of 427.657 Km length of roads to two lane with paved shoulders in 10 packages have been signed for an amount of Rs.1704.91 crore.

Out of 10 packages, 9 packages have been completed and it is under maintenance period. For EPC 04 package tender for balance work has been invited.

2.5.1.2 Output and Performance based road Contracts (OPRC)

Maintenance of 581.493 Km of Core Road Network (CRN) upgraded under TNRSP-I viz Arcot- Tiruvarur&Nagapattinam – Thoothukudi stretches for a period of five years have been taken up at a cost of Rs.220.08 crore. Fourth year maintenance works have been completed at a cost of Rs.187.979 Crore and fifth year maintenance is in progress.

2.5.1.3 Upgradation and maintenance through Public Private Partnership (PPP)

Widening of roads in Core Road Network to four lane standards are taken-up under PPP modified annuity mode. For a length of 30.600 km, for **PPP01 (SH 15)** Project, retender NOC from World Bank is awaited.

PPP02 (SH 37) project for a length of 70.200 km is under progress. And for **PPP03 (SH 39)** project, for a length of 45.640 Km tender evaluation is in progress.

2.5.1.4 Consultancy Services Funded by the World Bank

Three consultancy services have been engaged to supervise EPC 01 to EPC 10 contract packages and one Monitoring Consultant has been engaged to monitor the OPRC 01 & OPRC 02 Contracts. Two implementation LA Consultant for Land Acquisition and also Monitoring Consultant for LA R&R Rehabilitation and Resettlement have been engaged for EPC and PPP package works. An amount of Rs.132.71 crore has been provided for procurement of consultancy / advisory services, third party audit consultancy, Front End Fee and Project Contingencies. Out of three PPP works, an Independent Engineer

has been appointed to supervise the PPP 02 (SH 37) works. Procurement of two Independent Engineers for the other two PPP works is under process.

2.5.1.5 Funded by TNIDB

Preparation of Detailed Project Reports for a length of 3319 Km for an amount of Rs.132.76 Cr has been sanctioned under TNIDB fund. In the first phase, 1181.635 Km length of roads have been taken up.

2.5.1.6 Funded by the World Bank

109 km of State Highways and Major District Roads has been selected for execution under Additional Financing by World Bank.

2.5.1.7 Land acquisition (LA) and Rehabilitation and Resettlement (R&R)

A Resettlement Policy Frame work (RPF) has been prepared for the project in line with the new Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement RFCTLARR ACT, 2013 and the World Bank Operational guidelines and the same has been approved by the Government. This is being implemented and so far expenditure of Rs.337.162 Crore has been incurred towards LA and R&R.

2.5.1.8 Institutional Capacity Enhancement

To enhance the capacity of Highways Department in delivering the quality road network, following initiatives have been taken up under TNRSP-II.

1. Consultant has been appointed to prepare amendment to Tamil Nadu Highways Act,2001 and draft amendment to Highway Act and Rules are in advanced stage.
2. Consultant has been appointed to update the Highways manuals and to suggest improvements in day to day processes of the department. Consultant has submitted draft updated manuals which are being reviewed.
3. Consultant has been appointed to assess the training need of the department. The consultant has completed the Training Need Assessment Survey and submitted the Training Plan, Training Calendar, Training manual and Standard Operating Procedure for the

new Training Center. List of 21 officers identified and ToT training implemented.

4. Consultant has completed the study of Hardware Assessment and enhancement of e-pathai and submitted reports.
5. Hardware procurement for 4 circles of C&M wing and Chief Engineer's office & Director General's office has been taken up and completed through ELCOT.
6. Design wing has been equipped with new computer systems.
7. Specialized training at various institution has been imparted to Engineers of various wings.

2.5.1.9 Road Safety

To enhance the safety of Road User with integrated cooperation of all stakeholders, the following works are taken up under this Project and being implemented through the ICERS cell.

1. Road Safety Management Consultant has been appointed to support Road Safety Management Cell in implementing various road safety activities and demonstration corridor projects.
2. Road Safety Audit has been taken up and completed for about 1487km in Kancheepuram and Tiruvannamalai District. International Road Assessment Programme (iRAP) survey for 528 km completed and 95.60 km demo corridor project selected in Kancheepuram and Tiruvannamalai District.
3. Demo corridor field investigation and survey works are in progress for preparation of detailed design for implementation, Monitoring & Evaluation.
4. Procurement and installation of Automatic Speed Enforcement System in East Coast Road has been taken up and procurement in second call is at advanced stage.
5. Procurement of Trauma Care Centre at Kancheepuram Head Quarters hospital has been taken up and procurement is at completion stage.
6. Creating road safety awareness among school children in Kancheepuram District has been taken up and the consultant has commenced the services and in progress.
7. Training of Healthcare, First responder training has been completed benefiting 3457 persons.
8. Senior officers of various stakeholders departments attended the Road Safety Workshop at Australia organized by M/s VicRoads.

9. Training of Doctors (160 persons) & Nurses (320 persons) in Advance Trauma Life Support being conducted.
10. Procurement of enforcement related vehicle & equipment to Police Department has been initiated.
11. Consultancy services for Data analytics of 108 Ambulance for dynamic allocation to improve emergency care is being procured.
12. Procurement for Trauma Care centre at Tiruvannamalai Medical College Hospital has been taken up and procurement process initiated.

2.5.2 CHENNAI KANYAKUMARI INDUSTRIAL CORRIDOR PROJECT (CKICP)

The Government has established Chennai Kanyakumari Industrial Corridor Project to implement the Industrial Connectivity Project in the influence zone of Chennai Kanyakumari Industrial Corridor, conceptualized under the East Coast Economic Corridor. Development of Roads, Long Term Maintenance, Road Safety measures are envisaged in this project.

2.5.2.1 Upgradation and maintenance through (EPC) contracts

Under Engineering Procurement Construction Contract (EPC) 655 Km of 15 corridors (State Highways) are to be widened to two lane/ four lane carriageway with paved shoulders. The Project roads are to be taken up in a phased manner considering the availability of required work front. The preliminary activities such as land acquisition works, processing of various clearances from Environmental Department, Forest Department, PWD, obtaining estimates for Utility Shifting are in progress. It is planned to complete the land acquisition and proceed for procurement of works in this Financial Year.

2.5.2.2 Land acquisition (LA) and Resettlement and Rehabilitation (R&R)

A Resettlement Plan (RP) are being prepared for the project in line with the Right to Fair Compensation and Transparency in Land Acquisition, Rehabilitation and Resettlement (RFCTLARR) ACT 2013 and the Asian Development Bank's Social Safeguards Policy.

2.5.3 CHENNAI PERIPHERAL RING ROAD

Chennai Peripheral Ring Road (CPRR), one of the key projects envisaged in Vision 2023 is conceptualized linking the principal radial arterials, viz., NH-

5, NH-205, NH-4, NH-45. The key objective of CPRR is to provide efficient commercial transportation and Port connectivity and enhance operational efficiency.

2.5.3.1 SECTION-I (Ennore Port - Thatchur)

Chennai Peripheral Ring Road alignments starts at Ennore Port and ends at Poonjeri Junction near Mamallapuram having a length of 133.38 km which is split into 5 Sections. The Section-I connects NH-5 at Thatchur, with Ennore Port including one spur link road to Chennai Outer Ring Road at Minjur, for a total length of 24.85 km, which will be executed by Tamil Nadu Road Development Company.

As a preliminary step towards the project preparation, the Government have sanctioned Rs.951 Crore for Land Acquisition. The Land Acquisition works are in progress for 15 villages in Tiruvallur District. The project is funded by the Japan International Cooperation Agency (JICA). The procurement of Construction Supervision Consultants has been completed and the work is expected to commence by 2020 and completed by 2023.

2.5.3.2 Sections II, III and V (Thatchur - Poonjeri)

The Sections II, III and V of Chennai Peripheral Ring Road starts at NH-5 at Thatchur and ends at Poonjeri Junction near Mamallapuram for a length of 84.271 km. The Government has issued G.O. for land acquisition of 558.53 hectares at a cost of Rs.2,603.32 Crore which is executed by Tamil Nadu Road Infrastructure Development Corporation. For the execution of Section 2 and 3 the AIIB (Asian Infrastructure Investment Bank) and OFID (OPEC Fund for International Development) has been approached and the Department of Economic Affairs, New Delhi has approved the proposal. The Loan Agreement is likely to be signed for an amount of 478.07 Million USD (Rs.3346.49 Crore). The Construction work is scheduled to begin in 2020-21.

2.6 TAMIL NADU ROAD DEVELOPMENT COMPANY

2.6.1 CHENNAI OUTER RING ROAD

Phase-I starts from NH 32 at Vandalur to Nemilicherry at NH716 for a length of 29.65 km has been completed at a cost of Rs.1081.40 Crore under DBFOT except few project facilities such as minor junctions, Truck lay byes etc., and put to public use.

Phase-II starts from Nemilicherry at NH716 to Minjur at TPP road for a length of 30.20 km out of 30.50 km total length has also been completed under the DBFOT model at a cost of Rs.1075.00 Crore. Works are pending in 0.30 km length due to the Land litigation. The construction work will be completed soon.

This road is already declared as a Toll road and the user fee collection will be started from the ensuing financial year.

2.6.2 EAST COAST ROAD

The East Coast Road starts from Akkarai near Chennai to Koonimedu near Puducherry is improved to cater the traffic requirements. Akkarai to Mamallapuram is widened to divided 4 lane and the geometric improvements, curve strengthening has been completed in the stretch from Mamallapuram to Koonimedu near Puducherry which resulted in reduction in accidents.

2.6.3 CONSTRUCTION OF A FOUR LANE HIGH LEVEL BRIDGE AT ILAYANARKUPPAM IN ECR

The construction of a four lane high level bridge at km 69/300 in lieu of sunken bridge across the back water in ECR road at Ilayanarkuppam, announced during 2017-18, is taken-up at a cost of Rs.23.78 Crore is nearing completion.

2.6.4 WIDENING AND IMPROVING NORTH CHENNAI THERMAL POWER STATION ROAD AND KAMARAJAR PORT ROAD

TNRDC has taken-up the widening of the existing 2 lane road to 4 lane of North Chennai Thermal Power Station Road and the road leading to Kamarajar Port Main Gate for a total length of 7.2 Km as a deposit work to Kamarajar Port. The concrete pavement work is being implemented at a cost of Rs.195 Crore.

The work of four laning 2.38 Km of road to Kamarajar Port Road is under progress.

Contract procurement for the North Chennai Thermal Power Station Road is in progress and the construction on this stretch will be commenced soon.

2.6.5 IMPROVING THE CONNECTING ROAD FROM NH4 TO SOJITZ MOTHERSON INDUSTRIAL PARK AT SINGADIVAKKAM IN KANCHEEPURAM DISTRICT

The road leading to SojitzMotherson Industrial Park at Singadivakkam, Kancheepuram District has been taken up for widening to four lane configuration under Tamil Nadu Investment Promotion Programme (TNIPP) at a cost of Rs.24 Crore. This concrete pavement work is in progress.

2.6.6 RAJIV GANDHI SALAI (IT CORRIDOR)

2.6.6.1 Phase I

The Old Mahabalipuram Road from Chennai Madhya Kailash to Siruseri for 20.10 km, IT Expressway, Phase-I including the 2.15 km link to ECR, is under operation and maintenance as a Toll road.

2.6.6.2 Phase II

IT Expressway (Rajiv Gandhi Salai) Phase – II extension from Siruseri to Mamallapuram for a length of 25 km with six lane road including two bypasses at Kelambakkam and Tiruporur have been planned.

A sum of Rs.465.13 Crore for acquisition of required land to an extent of 88.62 ha. for 60m Right of way in 13 villages is sanctioned for implementing the 6 lane proposals. Presently, acquisition has been completed in nine villages and the land acquisition is in progress in the remaining villages.

The DPR for a length of 25 Km from Siruseri to Mamallapuram including two bypasses were prepared and the estimated cost is Rs.573.99 Crore. For the first stage, Administrative Sanction had been accorded for Rs.243.70 Crore for forming two bypasses at Kelambakkam (4.675 km) &Tiruporur (7.45 km) alone in the above total 25 km stretch, under TNIPP-II and is under progress.

2.6.7 MULTI LEVEL CAR PARKING (MLCP) AT SIRUSERI

The MultiLevel Car Parking (MLCP) at Siruseri under PPP mode, with nine floors for Bus and car parking and a commercial complex is planned under DBFOT at a cost of Rs.200 Crore. DFR has been prepared.

Since the alignment proposals of CMRL phase-II falls within the MLCP portion, the DFR is now being modified to incorporate the above changes.

2.6.8 ELEVATED ROAD

DPR for the Elevated Corridor from Taramani to Siruseri under Phase-I and from Siruseri to Mamallapuram under Phase-II, for a total length of 45 km has been completed. The DPR is now being revised to incorporate the proposed CMRL along this corridor.

2.6.9 DEVELOPMENT OF INTEGRATED TRAFFIC INFRASTRUCTURE AT TIDEL PARK JUNCTION

Government accorded sanction for Rs.108.13 Crore to ease traffic congestion at TIDEL Park Junction. A comprehensive proposal consists with the following components will be implemented (i) Construction of 'U' shaped Grade separators in OMR, one at the Indira Nagar Road Junction and another at TIDEL park Tiruvanmiyur (ECR) road Junction; (ii) Foot over Bridge at ECR Road Junction and (iii) Widening of Buckingham Canal Bridge at ECR road and OMR Junction.

The construction will be commenced during this year and completed in 24 months time.

2.7 TAMIL NADU ROAD INFRASTRUCTURE DEVELOPMENT CORPORATION

2.7.1 ORAGADAM INDUSTRIAL CORRIDOR PROJECT

It was proposed to upgrade the road infrastructure facilities in Oragadam Industrial Park, Kancheepuram District and accordingly the Oragadam Industrial corridor project was sanctioned in a phased manner.

2.7.1.1 PHASE-I

The work of Widening and Improvements to Singaperumalkoil – Sriperumbudur road for 24 km part of SH-57 and Vandalur – Wallajabad road for 33.40 km part of SH-48, were taken up at a cost of Rs.300 Crore during 2005-06 for a total length of 57.40 km including one Grade Separator at the Junction of the above two roads. This scheme is under implementation at a Revised Administrative Sanctioned amount of Rs.612.82 Crore and 98% of work have been completed except Sriperumbudur stretch pending due to Land Acquisition.

Total expenditure incurred in Phase-I is Rs.562.13 Crore which includes an expenditure of Rs.255.10Crore for Land acquisition.

2.7.1.2 PHASE-II

The work of Improvements from four laning to six laning of Singaperumalkoil – Sriperumbudur road from Km 12/6 to 24/6 was taken up at a cost of Rs.86.65 Crore During 2011-12. This scheme is under implementation at a revised cost of Rs.108.66 Crore. Out of 12 Km, 11.20 km has been completed.The balance 0.80 Km, is pending due to Land Acquisition and the same will be taken-up on acquiring land.

An expenditure of Rs.96.77 Crore had been incurred so far.

2.7.1.3 PHASE-III

The work of Improvements from four laning to six laning of Singaperumalkoil – Sriperumbudur road km 0/6 – 12/6 was taken up for implementation at a cost of Rs.115.00 Crore during 2015-16.

The Work has been completed. An expenditure of Rs.109.69 Crore had been incurred.

2.7.1.4 PHASE-IV

The work of Improvements from four laning to six laning of Vandalur to Wallajabad road km 30/4 – 47/0 including Land Acquisition for formation of Padappai Bypass Road uptoOragadam was taken up for implementation at a cost of Rs.189.81 Croreduring 2016-17 and 95% of workhave been completed. In Padappai Village, work is in progress.

An expenditure of Rs.144.45 Crore has been incurred so far.

2.7.1.5 PHASE-V

The work of Improvements from Four laning to Six laning ofVandalur – Wallajabad Road km 47/0 – 63/8 for a total length of 16.80 km has been taken-up for implementation at a cost of Rs.180.09 Crore during 2017-18 and 70% of work have been completed. The balance work is in progress.

An expenditure of Rs.102.26 Crore has been incurred so far.

2.7.2 FOUR LANING OF MADURAI RING ROAD

The work of Widening the Madurai Ring Road from double lane to fourlane from Km 0/0 – 27/2 has been taken up for implementation under BOT Toll basis at a cost of Rs.213.69 Crore with the Viable GAP Funding (VGF) from the State at Rs.80 Crore. Concession Agreement for this work has been entered for a Concession period of 20 years including the Construction Period of 2 Years. 99% of work has been completed except ROB at Kappalur for which safety clearance from Railway has just received and the entire work will be completed by June 2020.

Out of VGF of Rs.80.00 Crore, Rs.78.21 Crore have been released.

2.7.3 PERMANENT FLOOD RESTORATION UNDER CRIDP 2018 –19.

The work of Construction of Minor Bridge at km 33/6 of Vandalur – Wallajabad road (SH-48) has been taken up for implementation at a cost of Rs.4.80 Crore. 75% of work has been completed and balance work is in progress.

An expenditure of Rs.2.46 Crore has been incurred so far.

2.7.4 DEPOSIT WORK

The work of Forming Northern Access Road to Daimler India Commercial Vehicle Plant at Oragadam (Branching at km 46/342 of Vandalur – Wallajabad Road – SH-48) has been taken up for implementation at a cost of Rs.7.50 Crore as deposit work from SIPCOT. 50% of work has been completed and the balance work is in progress.

An expenditure of Rs.2.18 Crore has been incurred so far.

2.7.5 PERFORMANCE

Works had been executed during 2019–20 for Rs.104.70Crore. Balance works are in progress.

II. MINOR PORTS WING

3. TAMIL NADU MARITIME BOARD

Tamil Nadu has a coast line of about 1076 Kms. Along this coastline, there are three Major Ports namely, Ennore, Chennai and Tuticorin notified under the Major Port Trust Act, 1963 and 17 Non-Major (Minor) Ports notified under the Indian Ports Act 1908.

Cargo transport is carried-out at Cuddalore, Nagapattinam Ports. Small ships are piloted through Pamban Channel. Kanyakumari and Rameswaram ports are used for short trip passenger ferry service.

3.1 COMMODITIES HANDLED IN MINOR PORTS

Table 13:COMMODITIES HANDLED IN MINOR PORTS

In Metric Tonnes

S.No.	Name of the Port	Shipped / Landed	No. of Ship	Commodity	Quantity of cargo	Total
1.	Ennore Minor Port	Landed	10	Liquid Ammonia	44,358	44,358
2.	Kattupalli Port	Landed	14	Steel / Iron	1,06,218	5,72,040
			4	Machineries	2,177	
			7	Diesel	84,095	
			3	Minerals	1,94,690	
			2	Sand	94,726	
			1	Petroleum Product	38,890	
			1	Miscellaneous	12,494	
			1	Salt	38,750	
		Shipped	7	Machineries	3,652	96,801
			15	Granite	78,852	
			4	Steel / Iron	7,298	
			1	Minerals	6,999	
3.	Cuddalore Port	Landed	33	Vinyl Chloride Monomer	2,57,736	2,57,743
			-	Miscellaneous	7	
		Shipped	-	Petroleum Products	121	1,888
			-	Miscellaneous	1,763	
			-	Machineries	4	

4.	Nagapattinam Port	Landed	-	Miscellaneous	1	32,476
			7	Edible Oil	32,475	
		Shipped	1	Naphtha	17,582	43,761
			4	Diesel	26,040	
			-	Miscellaneous	139	
5.	Thirukkadaiyur Port	Landed	-	Natural Gas	30,181	30,526
			-	Crude Oil	345	
6.	Kudankulam	Landed	8	Machineries	4,927	4,927
Total		Landed	91		9,42,070	10,84,520
		Shipped	32		1,42,450	
Grand Total			123		10,84,520	10,84,520

Table 14: COMMODITIES HANDLED IN MINOR PORTS

In Units

S.No.	Name of the Port	Shipped / Landed	No.of Ship	Commodity (Container)	Quantity of cargo	Total
1.	KattupalliPort	Landed	342	20 Ft Loaded	78,170	1,57,284
				40 Ft Loaded	67,374	
				20 Ft Empty Container	5,934	
				40 Ft Empty Container	5,806	
		Shipped		20 Ft Loaded	86,849	2,78,844
				40 Ft Loaded	91,866	
				20 Ft Empty Container	66,763	
				40 Ft Empty Container	33,366	
Total		Landed	342		1,57,284	4,36,128
		Shipped			2,78,844	
Grand Total					4,36,128	4,36,128

3.2 PAMBAN PORT

The activity at this port is to pilot small drafted vessels passing through Pamban Channel in the Gulf of Mannar. 248 vessels were piloted at this port during the year 2019-2020 (upto February 2020).

3.3 RAMESWARAM PORT

A passenger ferry service near Agnitheertham in Rameswaram is operated and 1,36,163 passengers were ferried during the year 2019-2020 (upto February 2020).

3.4 KANYAKUMARI PORT

Ferry service is operated by Poompuhar Shipping Corporation Limited from sea-shore to Vivekananda Rock Memorial and AyyanThiruvalluvar Statue. Tamil Nadu Maritime Board is supervising the ferry service and collects establishment charges from the Corporation and 19,24,859 passengers were ferried during the year 2019-2020 (upto February 2020).

3.5 CARGO TRAFFIC

In the year 2019-2020 (upto February 2020), about 10,84,520 MT of cargo and 635384 (TEU) of containers have been handled through 465 vessels in the Minor Ports.

4. POOMPUHAR SHIPPING CORPORATION LIMITED

The Poompuhar Shipping Corporation Limited (PSC) was created on 11.04.1974 under the companies Act, 1956 to transport the coal required for the Tamil Nadu Generation and Distribution Corporation Ltd., (TANGEDCO) for the generation of electricity. The coal required by TANGEDCO is transported from the load ports at Haldia, Paradip, Dhamra and Vishakapattinam to discharge ports at Ennore, Karaikal and Tuticorin.

The corporation is also transporting coal through chartered vessels for NTPC Tamil Nadu Energy Company Ltd., (NTECL), a joint venture Company of TANGEDCO and NTPC, from the load ports of Paradip and Dhamra to Ennore for their three Units of 500 MW thermal power stations at Vallur, North Chennai, as per the Memorandum of Understanding.

The corporation Ferries tourists from the shore to Vivekananda Rock Memorial and the AyyanThiruvalluvar 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.

The performance of the corporation depends on the number of vessels chartered, International chartering rate and the quantity of coal moved. The performance of the corporation in various fold are given below:

4.1 COAL MOVEMENT FOR LAST THREE YEARS

Table 15: COAL MOVEMENT

Year	(In lakh Metric Tonnes)				Achievements
	Coal arrived at load ports	Coal moved by chartered vessels	Coal moved by own vessels	Total coal moved	
(1)	(2)	(3)	(4)	(5)	(6)
2017-18	190.00	167.62	21.23	188.85	99.3%
2018-19	210.06	197.84	7.18	205.02	97.6%
2019-20*	165.00	160.00	-	160.00	96.97%

*provisional

4.2 PHYSICAL PERFORMANCE

Physical performance for chartered vessels for the period 2018-19 and 2019-2020 are as follows:

Table 16: PHYSICAL PERFORMANCE

	2018-2019	2019-2020**
Chartered Vessels		
No. of Vessels	15	12
No. of voyages	310	254
Quantity of coal moved (in lakh MT)	197.84	160.00
Average quantity of coal moved per voyage (in MT)	63818	63765
Total quantity moved (in lakh MT)	205.02*	160.00

* including 7.18 lakh M.T moved by own vessel

** estimated

4.3 FINANCIAL PERFORMANCE

The overall financial performances of the corporation during the last three financial years are as follows:

TABLE 17: FINANCIAL PERFORMANCE

(Rs.in lakhs)

Year	Turn Over	Profit	Dividend
2017-2018	52476.78	111.78	33.54
2018-2019	87829.61	898.63	269.59
2019-2020*	65691.15	400.00	-

*provisional

4.4 KANNIYAKUMARI FERRY SERVICE

The physical and financial performances of the ferry service for the last three years are given below:

Table 18: PHYSICAL & FINANCIAL PERFORMANCE OF FERRY SERVICE

	2017-18	2018-19	2019-20*
No. of Ferry in service	3	3	3
No. of Passengers ferried (In lakh)	21.67	19.93	20.37
Fare collection (Rs.in lakh)	979.11	952.60	1263.00
Operational Profit (Rs.in lakh)	268.90	196.85	-

*provisional

Edappadi K. Palaniswami
Chief Minister