



GOVERNMENT OF TAMIL NADU

**HIGHWAYS AND MINOR PORTS
DEPARTMENT**

DEMAND NO. 21

**PERFORMANCE BUDGET
2010-2011**

2011

PERFORMANCE OF HIGHWAYS AND MINOR PORTS DEPARTMENT DURING 2010-11

I HIGHWAYS DEPARTMENT

1 Roads and Bridges

Road infrastructure plays vital role in overall economic development of the State. Highways department takes up improvement and maintenance of 61,674 km length of Government roads, construction of bridges and formation of bypasses / ring roads to ensure effective and safe transport of passengers and goods traffic.

1.1 ROAD LENGTH

The details of various Government roads in TamilNadu as on 31.03.2011 is as below:

Sl. No.	Classification	Length	Authority
1	National Highways (NH)	1601km	National Highways wing
		3260 km	National Highways Authority of India
	Sub total	4861 km	
2	State Highways (SH)	10561Km	All wings of Highways Department
3	Major District Roads (MDR)	11315 Km	
4	Other District Roads (ODR)	34937 Km	
	Sub total	56813 Km	
	Over all Total	61674 Km	

**LANEWISE DETAILS OF GOVERNMENT ROADS
AS ON 31.03.2011 IN TAMILNADU ARE GIVEN BELOW:**

(length in Km)

S. No.	Category of road	Single lane	Inter mediate lane	Double lane	Multi lane	Total
1	National Highways					
	a)National Highways wing	13	62	1485	41	1601
	b) National Highway Authority of India	-	-	1157	2103	3260
	Sub-Total	13	62	2642	2144	4861
	Percentage of lanewise width of roads		1%	54%	44%	
2	State Highways	32	963	8709	857	10561
	Percentage of lanewise width of roads		9%	82%	8%	
3	Major District roads	3702	4687	2819	107	11315
	Percentage of lanewise width of roads	33%	41%	25%	1%	
4	Other District roads	32059	2070	777	31	34937
	Percentage of lanewise width of roads	92%	6%	2%		
	Total	35806	7782	14947	3139	61674
	Percentage of lane width to the total length of roads	58%	13%	24%	5%	

1.2 SURFACE WISE LENGTH

(length in Kms)

S. No.	Category of Road	Cement Concrete (C.C)	Black Top (B.T)	Metalled (*)	Unmetalled	Total
1	National Highways	2	4859	-	-	4861
2	State Highways	13	10548	-	-	10561
3	Major District Roads	10	11305	-	-	11315
4	Other District Roads	16	34917	4	-	34937
	Total	41	61629	4		61674

* The 2.5 Km length of road in Kancheepuram District lies in Forest area and 1.6 Km in Virudhunagar District lies in bridge approach portion.

1.3 FINANCIAL PERFORMANCE

The financial and physical targets and achievements under plan schemes for the year 2010-11 and targets for 2011-12 are given below:

(Rupees in Lakhs)

S. No.	Name of Scheme	2010-11		2011-12
		Budget Estimate	Expenditure	Budget Estimate
	Chief Engineer (National Highways)			
1	Revamped Central Road Fund Scheme	10000.00	24520.90	12830.04
2	Inter State Connectivity Scheme	1617.19	910.82	1000.02
3	Economic Importance Scheme	1088.00	925.14	3179.62
4	Bharat Nirman Scheme(Tender excess and Maintenance to be borne by State Government)	133.88	147.67	239.20
5	Western Ghats Development Programme (Road Sector)	100.00	81.74	100.04
6	State Plan – Miscellenous Original Works	0.02	117.00	4.45
7	Token Provision for Miscellenous Heads included in the demand of Highways Department	0.12	-	0.12
	Total for Chief Engineer, National Highways	12939.21	26703.27	17353.85
	Chief Engineer (Construction and Maintenance Wing)			
	State Highways			
8	Bridges (Part II Scheme)	334.87	304.16	489.14
9	Roads (Part II Scheme)	126.71	150.96	0.08
10	16 major works	221.65	217.81	220.66
11	Bridges- 17 minor works	22.60	22.16	25.00
	Sub-Total	705.83	695.09	734.88
	Major District Roads			
12	Major District Roads (Part II Scheme)	0.01	0.00	0.08
13	16 Major works	213.29	210.20	220.43
14	17 minor works	87.76	85.69	60.51
	Sub-Total	301.06	295.89	281.02

S. No.	Name of Scheme	2010-11		2011-12 Budget Estimate
		Budget Estimate	Expenditure	
	Other District Roads			
15	Other District Roads (Part II Scheme)	180.26	590.07	0.17
16	16 major works	212.19	211.41	220.53
17	17 minor works	95.69	92.94	100.58
	Sub-Total	488.14	894.42	321.28
	Rehabilitation of Distressed Bridges			
18	Rehabilitation of Distressed Bridges (Part II Scheme)	754.33	679.30	121.30
19	16 major works	140.00	138.46	70.65
	Sub-Total	894.33	817.76	191.95
20	construction of bridges in Unbridged crossings (Part II Scheme)	0.12	0.00	0.02
21	Other Roads (Part II Scheme)	0.17	197.80	0.10
	Comprehensive Road Infrastructure Development Programme			
22	CRIDP- SH	48567.00	48567.87	50000.00
23	CRIDP- MDR	40245.01	40234.29	43009.00
24	CRIDP- ODR	29649.01	29656.22	21000.00
25	CRIDP- SCP	13385.00	13385.00	31000.00
	Sub- total	131846.02	131843.38	145009.00
26	Plastic and Litter Free Highways	25.00	25.00	26.25
27	Improvement to Chennai Radial Roads	0.01	355.36	0.01
28	Acquisition of lands for bypasses			
	(i) works	500.00	1893.75	0.02
	(ii) lands	1289.26		0.07
	Acquisition of land Sub-total	1789.26	1893.75	0.09
29	Improvement of roads in Kancheepuram City under Textile Centre Infrastructure Development Scheme	0.01	0.00	0.01
30	Improvement of vital roads in industrial areas through Tamil Nadu Road Infrastructure Development Corporation	16500.00	9857.40	4000.02

S. No.	Name of Scheme	2010-11		2011-12 Budget Estimate
		Budget Estimate	Expenditure	
31	Chennai – Outer Ring Road	10000.00	7000.00	10000.00
32	Construction of Buildings-CE (General)	348.01	260.92	62.05
33	Miscellaneous Original works	0.01	0.00	0.00
34	Improvement of roads with loan assistance from MRL	0.01	0.00	0.00
35	Improvement to accident prone spots	0.01	0.00	0.01
36	Improvement of roads with loan assistance from HUDCO/TUFIDCO	0.01	573.65	0.01
37	Upgradation of IT highway in Chennai	0.03	645.17	1300.01
38	Special Bridges Scheme	0.03	0.00	0.00
39	Improvements of roads in Coastal Districts	0.01	0.00	0.01
40	Improvements of roads in Industrial Areas	0.02	0.00	0.02
41	Tools and Plant	0.01	0.00	0.00
42	City Traffic Improvement works - CE (C & M)	0.01	0.00	0.01
43	Expenditure met from floatation of TIDCO bonds for ODR works	0.01	0.00	0.00
44	Construction of bridges in PU areas	0.01	0.00	0.01
45	High density Corridor	0.01	0.00	0.01
46	World Classical Tamil Conference	4000.00	3405.67	0.00
47	Improvements to Junctions in Rajiv Gandhi Salai	5000.01	0.00	5000.01
48	Formation of Roads in Tribal areas	0.05	0.00	0.05
	Plan – Total (Construction and Maintenance Wing)	171898.15	158761.26	167928.54
49	Tsunami – Centrally assisted	1651.00	1651.00	3035.00
	Total for Chief Engineer (H) Construction and Maintenance Wing	173549.15	160412.26	170963.54
	Chief Engineer (H) (Metro Wing)			
50	Chennai Metropolitan Development Plan	4850.48	11059.00	5000.00
	Total for Chief Engineer (H) (Metro Wing)	4850.48	11059.00	5000.00

S. No.	Name of Scheme	2010-11		2011-12 Budget Estimate
		Budget Estimate	Expenditure	
	Chief Engineer (H) (NABARD and Rural Roads Wing)			
51	Improvement to rural roads with NABARD assistance	1605.01	1230.74	81.42
52	Construction of Bridges in Government Roads with loan assistance from NABARD	7500.00	5535.29	18000.00
53	Construction of Bridges in Government and rural roads	2720.91	2643.47	1631.59
54	Improvement of District and other District Rural Roads with NABARD assistance	8901.01	8134.70	8359.73
55	Improvement to bus route with NABARD assistance	505.01	426.56	0.02
56	Improvement to Rural Roads with loan assistance from NABARD under Special Component Plan	57.01	6.62	0.02
57	Comprehensive Road Infrastructure Development Programme- Rural Panchayat union roads	0.01	0.00	-
58	NABARD assisted Panchayat and Panchayat Union Roads	0.01	0.00	-
59	Construction of bridges under Tsunami Emergency Assistance Project with loan assistance from ADB	0.01	76.75	0.02
60	Byepass works	-	-	1306.69
	Plan – Total (Nabard and Rural Roads Wing)	21288.98	18054.13	29379.49
61	Tsunami – Centrally assisted			4400.00
	Total for Chief Engineer (H), NABARD and Rural Roads Wing	21288.98	18054.13	33779.49
	Chief Engineer (Projects Wing)			
62	Construction of over and under bridges in lieu of existing level crossings	4998.53	1649.59	1591.34
63	Construction of ROB in Chennai Metro Area for Traffic Management	5000.00	7166.91	13351.29

S. No.	Name of Scheme	2010-11		2011-12 Budget Estimate
		Budget Estimate	Expenditure	
64	Construction of bridges	950.54	1098.90	501.63
65	Construction/ Reconstruction of bridges and improvement of roads with loan assistance from NABARD	6014.04	6530.09	5176.87
66	Provision for road works under TNUDP	1885.34	2118.59	411.84
67	Construction of Road Over Bridge/Road Under Bridge in lieu of level crossings	60000.00	26200.78	71300.00
68	Madurai Radial Roads	0.03	97.57	0.01
69	CRIDP - Madurai Radial Roads Phase - II	0.01	10.00	0.12
70	Rural Roads - Marketing centre	0.01	8.99	0.22
71	Roads in cyclone affected areas	0.01	0.41	0.13
72	Construction of Interchange at the junction of Pondy-Krishnagiri road under IS&EI	0.01	0.01	0.01
73	City Traffic Improvement works - CE (Projects)	0.07	0.00	0.07
74	Road works under World Bank Project I	0.05	0.00	0.00
75	Integrated city development project	0.03	0.00	0.00
76	Road works under World Bank Project II	0.01	0.00	0.00
77	Bus route improvements in Chennai Metro Area	0.00	0.00	0.00
78	Missing links in Chennai Metro Area	0.00	0.00	0.00
	Total for Chief Engineer (H) Projects Wing	78848.68	44881.83	92333.53
	Project Director, Tamil Nadu Road Sector Project			
79	Establishment charges for Revenue staff for PMG and special staff for Environment Project Management	150.15	71.80	31.51
80	Establishment charges for PMG	636.66	504.90	701.60
81	TNRSP	40029.03	15962.91	27503.00
	Total for Project Director, TNRSP	40815.84	16539.61	28236.11

S. No.	Name of Scheme	2010-11		2011-12 Budget Estimate
		Budget Estimate	Expenditure	
	Director, Highways Research Station			
82	Institute of Highways Research and Management	0.01	0.00	0.01
83	Equipment for lab	330.63	192.23	52.01
	Total for Director, Highways Research Station	330.64	192.23	52.02
	Plan - Total	330971.99	276191.33	340283.53
	Tsunami Rehabilitation Scheme - Total	1651.00	1651.00	7435.00
	Grand Total	332622.99	277842.33	347718.53

1.4 PHYSICAL PERFORMANCE:

S. No.	Name of Scheme	Achievements 2010-2011		Targets 2011-2012	
		Bridges/ Culverts/ Structures in Nos.	Roads length in km.	Bridges/ Culverts/ Structures in Nos.	Roads length in km.
	Chief Engineer (National Highways)				
1	Revamped Central Road Fund Scheme	7	511.96	9	369.15
2	Inter State Connectivity Scheme	1	7.00	-	27.60
3	Economic Importance Scheme	-	16.00	-	30.40
4	Western Ghats Development Programme (Road Sector)	2	2.10	2	0
	Total	10	537.06	11	427.15
	Chief Engineer (Construction and Maintenance Wing)				
5	Part II Scheme	4		9	

S. No.	Name of Scheme	Achievements 2010-2011		Targets 2011-2012	
		Bridges/ Culverts/ Structures in Nos.	Roads length in km.	Bridges/ Culverts/ Structures in Nos.	Roads length in km.
6	Comprehensive Road Infrastructure Development Programme				
	State Highways	157	1098.00	150	1200.00
	Major District Roads	93	1005.00	125	1100.00
	Other District Roads	119	1578.00	100	1400.00
	Other District Roads Special Component Plan (CRIDP)	33	736.00	50	800.00
	World Tamil Conference – Infrastructure Development		86.00	-	-
	Plan Total	406	4503.00	434	4500.00
7	Tsunami Rehabilitation Programme (Centrally Assisted) - Construction and Maintenance wing	5		5	
	Total	411	4503.00	439	4500.00
	Chief Engineer (Metro Wing)				
8	Chennai Metropolitan Development Plan				
	1) ROB/RUB				
	2) Grade Separator				
	3) River Bridge			1	
	4) Roads / Bridges	34	106.30		4.30
9	Tamil Nadu Urban Development III	48	--	28	15.00
	Total	82	106.30	29	19.30
	NABARD AND RURAL ROAD WING				
10	Improvements to Major District Roads/ Other District Roads under NABARD loan assistance	-	244	-	268
11	Bridges on Government roads	14	-	10	0
12	Construction of bridges in Government and rural roads	12	-	99	0

S. No.	Name of Scheme	Achievements 2010-2011		Targets 2011-2012	
		Bridges/ Culverts/ Structures in Nos.	Roads length in km.	Bridges/ Culverts/ Structures in Nos.	Roads length in km.
13	Rural Roads Scheme	1	-	5	0
14	Bus Route Scheme	-	-	1	0
15	Special Component Plan Scheme	-	-	-	0
16	ADB assisted Projects (TEAP)	1	-	-	0
	Plan Total	28	244	115	268
17	Tsunami Rehabilitation Programme	-	-	2	6.20
	Total	28	244	117	274.20
	Chief Engineer (Projects)				
18	Road over/ under bridges in lieu of existing Level Crossings	2	-	3	-
19	Construction of Over Bridges/ Under Bridges in lieu of level crossings	8	-	24	-
20	Construction of bridges	2	-	2	-
21	Construction of bridges in Cauvery delta districts and Improvement of Sugarcane roads with NABARD loan assistance	1	-	6	-
22	Tamil Nadu Urban Development Project	-	5.00	-	-
23	CMDP Grade Separator	-	-	2	-
	Total	13	5.00	37	0
	Chief Engineer(TNRSP)				
24	Tamil Nadu Road Sector Project				
	Upgradation		15.37		5.26
	Maintenance component	-	37.95	-	41.85
	Bridges/Minor Bridges	35	-	14	-
	Sub Total	35	53.33	14	47.12
	Total	579	5448.69	633	5267.77

2 NON-PLAN SCHEMES

Renewal and maintenance of roads and bridges are carried out as per IRC norms under Non-Plan scheme. Relaying of surface and maintenance of bridges are also undertaken in this scheme.

During 2010-11, renewal of 4766 Km length of roads has been done. The details of expenditure made during 2010-11 under various heads of Non Plan and the allocation made for 2011-12 are given below.

2.1 FINANCIAL ALLOCATION AND EXPENDITURE

(Rs. in lakhs)

S. No.	Name of Scheme	2010-2011		2011-2012
		Budget Estimate	Expenditure	Budget Estimate
1	National Highways Urban	192.94	195.00	202.58
2	Certain important Roads in the city of Chennai taken from Corporation of Chennai	1736.43	1736.00	1823.25
3	State Highways	12090.13	12684.00	12892.91
4	Major District Roads	10716.17	11231.00	11450.23
5	Other District Roads	39065.43	38525.00	41218.21
6	Sugarcane Roads	1521.82	1504.00	1597.91
7	Improvements to Nilgirs Ghat Roads	0.02	473.00	86.40
8	13th Finance Commission grant for maintenance of Rural Roads -CE(C & M)	0.01	0.00	28500.00
9	Maintenance of Panchayat and Panchayat Union Roads through Director, Rural Road Development	0.02	0.00	14300.00
	Total	65322.97	66348.00	112071.49

2.2 PHYSICAL PERFORMANCE

(Length in Km.)

SL. No	Name of wing	Achievement 2010-11	Target 2011-12
1.	Construction and Maintenance	4766.00	5000.00
	Total	4766.00	5000.00

3 PLAN SCHEMES

During the year 2010-2011, an amount of Rs. 3309.71 crore was provided in the Budget Estimate for all the wings of Highways Department and the expenditure incurred under Plan Schemes is Rs.2761.91 crore.

3.1 Part II Scheme

The State Government allocates a sum of Rs.10.00 crore every year to this department for construction of bridges, buildings, travellers bungalows, purchase of office equipments, laboratory equipments and purchase of software etc.

During 2010-11, last year spill over works of 13nos of bridges at a cost of Rs. 31.27crore and new works construction of 9 office buildings at a cost of Rs. 3.48 crore were taken up for execution.

Of which 4 bridge works have been completed at an expenditure of Rs. 22.73 crore out of spill over works.

3.2 Comprehensive Road Infrastructure Development Programme (CRIDP)

Under this programme, development of infrastructures like widening and improvement of roads, construction of bridges / culverts, formation of bypasses are being taken up in

comprehensive manner. A yearly outlay of an average of Rs. 1000 crore is allotted for this scheme.

3.2.1 State Highways

During 2010-11, the spill over work of 369km. length of road and 97nos of bridges at a cost of Rs. 160.00crore and newly sanctioned works of 1399 km roads and 154 Nos. of bridges / culverts at a cost of Rs. 803.06 crore were taken up for execution.

During 2010-11, an expenditure of Rs.485.67 crore has been incurred for 1098 km road works and 157 bridges / culverts has been completed out of the newly sanctioned works and spill over works.

3.2.2 Major District Roads

During 2010-11, the spill over work of 322km. length of roads and 57nos of bridges at a cost of Rs. 108.53crore and newly sanctioned works of 1305 km roads and 79 nos of bridges / culverts at a cost of Rs. 457.12 crore were taken up for execution.

During 2010-11, 1005 km road works and 93 bridges / culverts has been completed out of the newly sanctioned works and spill over works at an expenditure of Rs. 402.34 crore.

3.2.3 Other District Roads

During 2010-11, the spill over work of 378 km roads and 92nos of bridges at a cost of Rs. 102.93 crore and newly sanctioned works of 1899 km roads and 73 nos of bridges culverts at a cost of Rs. 285.93 crore were taken up for execution.

During 2010-11, 1578 km road works and 119 bridges / culverts has been completed out of the newly sanctioned works and spill over works at an expenditure of Rs.296.56 crore.

3.2.4 Improvement to Road connectivity to Adi Dravida habitations

Under Comprehensive Road Infrastructure Development Programme, ODR-SCP, Government is implementing the scheme of improving Other District Roads connecting Scheduled Caste habitations.

During 2010-11, the spill over work of 166 km roads and 27 Nos. of bridges at a cost of Rs. 37.77 crore and newly sanctioned works of 1028 Km roads and 28 Nos. of bridges / culverts at a cost of Rs. 178.88 crore were taken up for execution.

During 2010-11, 736 km road works and 33 bridges / culverts has been completed out of the newly sanctioned works and spill over works at an expenditure of Rs.133.85 crore.

4 Bypasses to Major Towns

Formation of bypasses is very essential to relieve traffic congestion in important towns and to reduce the traveling time of through traffic. Formation of bypasses / ring road is the top priority of the Government. Formation of bypasses is executed in two phases (viz) in first phase, land acquisition and in second phase, formation of road works.

Altogether 64 bypasses for different towns to reduce traffic congestion were taken up. During 2010-11, 12 no. of bypasses for different towns have been completed. The bypasses under various stages of implementation are detailed below.

Works in progress	: 15
LA in progress	: 3
LA proposal under consideration	: 1
Feasibility / DPR in progress	: 25

a) Work in Progress:

S.No	Towns	Length	Total Cost (LA + Road Cost)
1	Ettukudi	1.55	1.55
2	Thuraiyur	3.6	9.45
3	Ilayankudi	2.4	3.5
4	Vandawasi	2.2	3.5
5	Thiruthuraipoondi	2.46	7.71
6	Pattukottai (phase I)	7.4	12.78
7	Perambalur(phase I)	9.06	16.86
8	Dharapuram(phase I)	4.8	12.63
9	Rasipuram (phase I)	13.68	22.18
10	Erode Outer Ring Road	14.62	48.35
11	Kancheepuram	8.42	37.05
12	Puducherry	1.9	13.29
13	Ramanathapuram	10.4	35.29
14	Nagapattinam	9	19.49
15	Kumbakonam	4.1	24.56
	Total	95.59	268.19

b) Land acquisition in progress:

S.No	Bypass	Cost
1	Thanjavur phase II	14.41
2	Tiruvarur	10.10
3	Myladuthurai	2.07
	Total	26.58

c) LA proposal under consideration

Proposal for taking up land acquisition for Coimbatore Western Bypass for an amount of Rs.131.55 crore is under consideration of the Government.

d) Detailed Project Report is under preparation for the following bypasses

S.No	Towns
1	Thirunelveli outer ring road
2	Sivagangai
3	Manachanallur
4	Mannargudi
5	Vellore Phase I
6	Thiruthani
7	Thiruvallur
8	Ambasamudram
9	Tenkasi
10	Sankarankoil
11	Mudukulathur
12	Bhavani
13	Namakkal
14	Thiruchengode
15	Cuddalore
16	Tiruvannamalai
17	Arcot
18	Thirupathur
19	Chokkampatti
20	Sethur
21	Rajapalayam & Srivilliputhur
22	Madurai
23	Usilampatti
24	Andipatti
25	Bodi

5 Tsunami Rehabilitation Scheme

5.1 Tsunami Rehabilitation Programme

Under this scheme, improvement of roads and construction of bridges in coastal areas to act as escape route in case of any emergency are being taken up. Only spill over works which had already been sanctioned are in progress.

During 2010-11, improvements to 2 km roads and 20 bridges have been taken up for implementation for Rs. 131.65 crore. Of which 5 bridges have been completed at an expenditure of Rs.16.51 crore by Construction and Maintenance wing.

During 2010 -11, Improvements to 6 km roads and 3 bridges have been taken up for implementation for Rs. 44.22 crore by NABARD and Rural Roads wing.

5.2 Tsunami Emergency assistance project with Asian Development Bank assistance (TEAP)

During 2010-11 under Tsunami Emergency Assistance Project, construction of 1 bridge in Tsunami affected Districts of Cuddalore district was taken up at a cost of Rs.0.79 crore and the work has been completed during 2010-11 incurring an expenditure of Rs 0.77 crore.

6 NABARD assisted schemes

6.1 Improvements to major district roads/other district roads under NABARD loan assistance (project 29, 51, 85 and 125)

Under this scheme, improvements to roads and construction of bridges in Major District Roads / Other District Roads are taken up with loan assistance from NABARD. During 2010-11, last year spill over works of 226 km length of road at a cost of Rs 60.98 crore

and new works of 286 km length of roads at a cost of Rs 119.86 crore were taken up for execution.

Of which 244km length of roads are completed during the year 2010-11 incurring expenditure of Rs 81.35 crore.

6.2 Construction of Bridges In Government Roads (Project 91)

During the 2010-11 year, spill over works of construction / reconstruction of 27 bridges in State Highways, Major District Roads and Other District Roads were taken up at a cost of Rs.52.32 crore.

Of which, 14 bridges have been completed incurring an expenditure of Rs. 26.44 crore during 2010-11.

6.3 Construction of Bridges in Government and Rural Roads (Project 121& 122)

During the year 2010-11, last year spill over works of construction / reconstruction of 25 bridges in State Highways, Major District Roads , Other District Roads and Panchayat and panchayat union roads were taken up at a cost of Rs.78.61 crore and new project of 121 bridges at a cost of Rs 250 crore were taken up for execution. Of which 12 bridge works have been completed at an expenditure of Rs.55.35 crore during 2010-11.

6.4 Rural Roads Scheme (Project 103 & 110)

Under this scheme, BT road connectivity is provided for villages with a population between 500-1000. During 2010-11, spill over works of construction of 6 bridges were taken up at a cost of Rs.17.60 crore.

Of which 1 bridge work has been completed during 2010-11 incurring an expenditure of Rs 12.31 crore.

6.5 Improved connectivity to adi dravidar habitations under the scheduled caste sub plan (Project-103 and 110).

Under this scheme, BT road connectivity is provided to villages where Adi-Draavidar population is more than 40% of the total population. During 2010-11, spill over works to a tune of Rs 0.01crore were taken up and an expenditure of Rs. 0.06 crore incurred during the year 2010-11 with that the scheme was completed.

6.6 Bus Route Improvements Scheme (Project 110)

Under this scheme, Bus Plying Panchayat and Panchayat Union Roads have been taken up for improvements. During 2010-11, spill over work of construction of 1 bridge was taken up at a cost of Rs.5.62 crore.

An expenditure of Rs 4.26 crore has been incurred during 2010-11.

7 Construction of bridges in Cauvery delta area with NABARD and HUDCO loan assistance

7.1 NABARD scheme

Under this scheme, Government sanctioned construction of 59 River bridges and improvements to 417 km length of sugarcane roads at a cost of Rs. 204.73 crore in Cauvery Delta Districts. Of these, 48 river bridges and 412 km length of road works have been completed.

The balance 4 bridge works of RIDF VIII will be completed at a cost of Rs. 8.04 crore.

4 Major bridge works taken up under RIDF XIV are in progress and 2 works will be completed at a cost of Rs. 140.50 crore.

A sum of Rs. 65.30 crore has been spent for this scheme in 2010-11.

7.2 HUDCO Scheme

Sanction was accorded for construction of 61 bridges at a cost of Rs. 60 crore with HUDCO financial assistance. This scheme was being implemented with HUDCO funds till 2004 - 05 and thereafter works are being carried out from State Government funds.

Of these, 55 bridges have been completed at the cost of Rs. 48.91 crore and 4 bridge works at the cost of Rs. 13.20 crore are in progress and 2 works will be completed in the financial year 2011-12.

8 Railway Over Bridges (ROB) / Railway Under Bridges (RUB)

Construction of Road Over / Road Under Bridges in lieu of existing level crossings on Government roads are undertaken on priority basis when Train Vehicle Units (TVU) exceed One Lakh per day. The State Government and Ministry of Railways share the cost equally for construction of Road Over / Under Bridges including approach and service roads.

Under Railway Works Programme, 113 ROB / RUB works have been taken up at a cost of Rs. 2251.43 crore and out of these 40 works have been completed at a cost of Rs. 563.38 crore and 45 works are in progress at a cost of Rs. 1051.56 crore.

A sum of Rs. 303.88 crore has been spent for this scheme in 2010-11.

9 Tiruppur Infrastructure Development Scheme (CRIDP)

In order to reduce the traffic congestion caused by ever increasing vehicular traffic in Tiruppur town, the Government

sanctioned Rs. 70 crore for Tiruppur ring road, radial roads connecting the town and bridge works. This includes road improvement works for a length of 99 km, 2 Railway Over Bridges and 9 River Bridges.

Of these, all Road works were completed in full.

Out of 9 bridge works, 8 works were completed and the remaining work of Construction of Bridge across Noyyal River near Chikkana College(ODR) located at Anaipalayam costing Rs. 3.85 crore will be completed during this financial year.

Out of the 2 road over bridges at railway level crossings, 1 Road Over Bridge at Coolipalayam has been taken up under Railway Works Programme 2007-08 and is in progress which will be completed during this year.

The Road Over Bridge near Chikkanna college for Rs. 19.79 crore will be taken up for execution after clearing of court case.

10 Erode Outer Ring Road

In order to mitigate the traffic congestion and thereby to ease and have trouble free traffic in Erode Town, the Government has accorded sanction for Rs. 22.00 crore as first phase towards land acquisition for formation of road from Kokkarayanpettai to Thindal to a length of 14.20 km and Rs. 35.00 Lakhs for the preparation of detailed project report through consultants.

In the formation of Erode Outer Ring Road construction of high level bridge in between Kokkarayanpettai – Lakkapuram across Cauvery River and forming approach road from Kokkarayanpettai to

Karur road km 0/0 - 2/2 has been technically sanctioned for Rs. 12.11 crore and the work is in progress (CRIDP 2009 - 2010).

The work of formation of outer ring road to Erode town from 2/2 to 7/450 (CRIDP 2010 - 2011) has been awarded. The work will be taken up after completion of Land Acquisition.

11 Erode Government Hospital Junction Improvement under CRIDP 2010-2011

Administrative Sanction has been accorded for the work of improvements to junction at km. 1/8 of Erode – Perundurai – Kankeyam near Government Hospital including Land Acquisition for Rs. 11.00 crore and the work will be taken up after completion of LA.

12 Sugarcane Road Development Scheme

The cess fund collected from sugar mills is utilised for formation of roads from sugar cane growing areas to sugar mills. The Government have accorded administrative sanction for 51 road works of 89.70 km length at a cost of Rs. 21.78 crore. Out of 51 works, 28 works have been completed, 12 works are in progress and will be completed during this financial year.

An expenditure of Rs. 11.59 crore has been incurred during 2010-11.

13 Inner Ring Road in Chennai City (Southern Sector)

To ease the traffic congestion in Southern Part of Chennai City, Government Sanctioned formation of 'Southern Sector of Inner Ring Road starting from km 14/1 of NH45 to join at km 13/4 of Old Mamallapuram road' for a length of 9.40 km. Now all the works have been completed and opened for traffic

An expenditure of Rs. 21.19 crore has been incurred during 2010-2011.

14 Flyover at Tirunelveli

The Government have sanctioned construction of a fly over along Tirunelveli bypass near Chellapandian statue for an amount of Rs. 16.40 crore.

An expenditure of Rs.16.25 crore has been incurred and work completed.

15 Chennai Metropolitan Development Plan (CMDP)

Chennai being a Metropolitan City is growing fast in all sectors. In order to meet the demand for infrastructure, especially traffic improvements, Government have formed a Chennai Metropolitan Area Development Plan during the year 2003 - 2004. Since then, about 239 works costing Rs. 975.51 crore have been taken up, which consists of various broad categories such as widening of roads, resurfacing, improvements to Pedestrian Foot path, Centre Median, Grade Separators, River Bridges, ROB's etc.,

Till 2010 - 11, about Rs. 569.00 crore have been spent for these works. During the year 2010 - 11, Rs. 110.58 crore have been incurred and out of total 473 km, so far 468.70 km road widening have been completed and the balance 4.3 km will be completed during this financial year.

Some of the Major works under implementation are detailed below.

15.1 Grade Separators

1. At the intersection of Mount Poonamallee road with Kodambakkam Sriperumpudur road at Porur at a revised cost of Rs. 34.72 crore is in progress.
2. At the intersection of Madhavaram High road with G.N.T Road at Moolakkadai, at a revised cost of Rs. 49.55 crore is in progress.
3. At the intersection of Anna Nagar IInd Avenue and Mogappair road with Inner Ring road at Tirumangalam at a revised cost of Rs. 60.23 crore is in progress.
4. At the intersection of N.S.K Salai (Arcot Road) with Inner Ring road at Vadapalani in Chennai at a cost of Rs. 30 crore, is decided to be executed by the Chennai Metro Rail limited in an integrated manner since the metro rail alignment and the Grade Separators are one and the same. Metro Rail work is in progress. At present Land Acquisition work is in progress.
5. At the intersection of Nelson Manickam road and Anna Nagar 3rd Avenue road with EVR Salai at Arumbakkam in Chennai at a cost of Rs. 117 crore is in progress. Land Acquisition for this work is in progress.

15.2 River Bridges

Government have sanctioned Rs.88.68 crore for 4 river bridges in Chennai Metropolitan Area. The details are:

1. Adjacent to the existing bridge at Aminjikai in Chennai at a cost of Rs. 6.90 crore is in progress.
2. At the road connecting GWT at 11/2 and Mogappair with Nerkundram across Coovum river at a cost of Rs. 16.04 crore is in progress.
3. Additional 3 lane High Level Bridge across Adyar river adjacent to the existing Thiru.vi.ka Bridge in Chennai at a cost of Rs.13.08 crore is in progress.

4. Highlevel Bridge at Ennore Creek in Ennore connecting Ennore Expressway with North Chennai Thermal Power station at a cost of Rs. 52.66 crore is in progress.

15.3 WORKS IN THE STAGE OF PREPARATION OF DETAILED PROJECT REPORT.

22 projects in Chennai Metropolitan Area have been identified for the preparation of DPR on priority basis.

Preparation of DPRs for the following 4 Grade Separator works is in progress.

1. At the intersection of Velachery bypass, Taramani link road and Velachery - Tambaram road at Velachery Vijayanagaram.
2. At the intersection of Kundrathur road and Sandhai road with G.S.T road at Pallavaram
3. At the intersection of Perambur Red Hills road with Inner Ring Road at Kolathur Irattai Eri Junction.
4. Elevated bridge in EVR salai connecting all road junctions between Raja Muthaiah Salai Junction to Pulla Avenue.

On finalization of DPR, these works will be taken up for implementation.

16 Tamil Nadu Urban Development – III

This scheme is being implemented since 2005 with the World Bank loan assistance. This project consists of Urban Water Supply, Sewerage works and traffic components. Under the traffic component, Highways Department is implementing, 5 Road projects of 36 km length at a cost of Rs.145.00 crore in and around Chennai Metropolitan areas.

16.1 Foot Over Bridges

Government have accorded sanction for the construction of Foot Over Bridge at the following seven locations at a total cost of Rs. 28.00 crore for which DPR is under preparation.

1. GST road, near Chromepet G.H
2. GST Road, near MEPZ, Tambaram
3. Inner Ring Road, near SBOA School road Junction, Tirumangalam
4. EVR Salai near MOP Vaishnava College.
5. Velachery by pass, near Metro water filling station.
6. Taramani link road, near TCS.
7. Taramani link road, near Perungudi Junction.

17 Road Infrastructure Development in Oragadam Industrial Park Area

Considering speedy development of industries in and around Sriperumpudur in Kancheepuram District, improvements to the road infrastructure facilities in Oragadam Industrial Park has been taken up by Tamil Nadu Road Infrastructure Development Corporation at an estimate cost of Rs.300 crore and the scheme is under implementation.

The road work has been completed for 36.00 Km. Out of 166 cross drainage works, 116 completed. Construction of Grade Separator at Oragadam junction, at an estimated cost of Rs.23.00 crore commenced in April 2010. The total expenditure incurred for this Oragam Industrial Corridor Project is Rs.280 crore which includes the expenditure of Rs.124 crore for Land acquisition.

18 Rajiv Gandhi Salai (IT Expressway) (Extension) – Phase II

In second phase, Government proposed to construct six lane road for a distance of 25 km from Siruseri to Mamallapuram connecting East Coast Road, under viable financial format under Public Private Partnership basis. The rough cost estimate for the project is Rs.550 crore. Government have sanctioned Rs.70 crore for land acquisition and land acquisition works are in progress.

19 National Highways

19.1 National Highways Plan works

During 2010-11, 305.17 km length of 46 road works and 6 bridge works costing Rs.266.93 crore have been taken up as spill over works. Further, 226.98 km length of 6 road works and 1 bridge work costing Rs.168.64 crore have been sanctioned as new works by the Ministry.

Out of this, 216.75 Km length of 28 road works and 3 bridge works have been completed at a cost of Rs.178.25 crore during 2010-11. This includes widening to four lane of 14.45 km road, widening to two lane of 5.2 km road, 125 km roads under improvement to riding quality, 49.20 km length of strengthening two lane stretches, 22.70km length of paved shoulders on both sides, 7 minor bridges and 13 culverts.

19.2 Maintenance works in National Highways

During 2010-11, under Special Repairs / Periodical Renewal, 22 km length of 2 road works costing Rs.7.15 crore have been taken up as spill over works. Further, 183.822 km length of 7 road

works costing Rs.56.50 crore have been sanctioned as new works by the Ministry.

Out of this, 100.60 km length of 4 road works have been renewed at a cost of Rs.28.52 crore during 2010-11. Moreover, Rs.25.05 crore have been incurred towards Flood damage works and Ordinary repairs.

20. Revamped Central Road Fund Scheme

During 2010-11, 673.96 Km length of 50 road works and 16 bridge works costing Rs.368.43 crore have been taken up as spill over works. Further, 210.42 km length of 16 road works and 1 bridge work costing Rs.130.63 crore have been sanctioned as new works by the Ministry.

Out of this, 511.96 km length of 44 road works and 7 bridge works have been completed at a cost of Rs.245.21 crore during 2010-11.

21 Tamil Nadu Road Sector Project (TNRSP)

Tamil Nadu Road Sector Project with the loan assistance from the World Bank is constructing roads conforming to international standards. The estimated project cost is Rs. 2442 crore, with additional finance to the extent of US\$ 50.70 Million (Rs.236 crore) of which the World Bank loan component is Rs. 1906 crore and the remaining Rs. 536 crore is funded by Government of Tamil Nadu.

21.1 Upgradation of Roads

Upgradation of roads from Arcot to Tiruvarur and Nagapattinam to Tuticorin were taken up in four packages, Ramanathapuram bypass (10.4 km) and Kumbakonam bypass (4.1km) for a length of 724km in six packages at a contract price of

Rs. 1161.52 crore. Out of this stretch, 719 km of road works were completed and the balance road works will be completed during this financial year.

The reconstruction of Tsunami affected bridge between Keezhamanakudi and Melamanakudi village at a contract price of Rs.21.29 crore has been taken up and will be completed in this financial year.

21.2 Road maintenance works

Under First Year Enhanced Periodical Maintenance works (2004-05) and Second Year Enhanced Periodical Maintenance, a length of 849 km road works at a cost of Rs. 312.83 crore have been completed already.

Under Third and Fourth Year Maintenance, 183.89 km of roads at a cost of Rs. 115.43 crore have been taken up, out of which 142 km have been completed. During 2010-11an expenditure of Rs. 23.36 crore has been incurred and the balance works will be completed during this financial year.

21.3 Road Safety Assessment

The Indian Institute of Technology (IIT) M, Chennai is reviewing the safety status in the upgraded roads under contract of TNRSP Packages 02, 03 & 04 for about 335 km, to identify safety related problems, deficiencies and shortcomings and suggesting remedial measures and this consultancy services is completed. Further, the road safety audit is being conducted in the upgraded roads under the contract of TNRSP 01 for a length of 374 km. On receipt of the report, the road safety measures suggested in the report will be taken up for execution after obtaining approval from the World Bank.

21.4 Road Safety Awareness

Consultancy services for road safety awareness programme have been upgraded by the Director, Institute of Road Transport, Chennai which includes five items of works viz., formulation of detailed action plan, creating awareness among the drivers of 3/4 wheeler, school students and general public about the road safety measures, and finding out the ways and means to avert dashing against stranded vehicles in the roads from the rear.

21.5 Road Accident Data Management System (RADMS)

The Accident details are collected at the site of accident and registered in the website (www.tnradms.org) by Police, Highways and Transport departments. The data collected is analysed and preventive measures are being taken up by the concerned department.

21.6 Road Management System (RMS)

To scientifically prioritise the roads to be improved from the core network of the roads in Tamil Nadu, a computerized road management system is developed. Road condition data and inventory details of Roads and bridges have been completed for 20,000km and uploaded in the system . Condition data for 8,500km length of roads have been updated by conducting fresh survey. Apart from the above field data are being collected for about 3,600km length of roads. Further collections of data for the remaining reaches are in progress. The data collected is analysed with HDM4 software and the economic feasibility is obtained for prioritization.

21.7 Geographical Information System (GIS)

To enhance decision making in prioritizing road works for maintaining and executing them, the Road Information System (RIS) and Bridge Information System (BIS) are being created in

GIS platform and customization of software to the department by the consultant is in progress.

21.8 Performance Based Maintenance contract (PBMC)

It has been proposed to substitute the existing procedure of maintaining the roads and implement a new concept of long term maintenance contract for maintenance of the particular packages of road for a term of 5 years continuously under a single contract with World Bank assistance. This maintenance work for 296 km roads has been entrusted at the contract value of Rs.48.03 crore. Supervising Consultant has been engaged with a contract value of Rs.5.29 crore and the works are in progress.

Sl. No.	District	Name of road	Total length in Km
1.	Salem	Omalur - Mecheri Road (MDR)	14.60
2.	Salem & Namakkal	Omalur – Sankagiri – Tiruchengode - Paramathy Road (SH.86)	81.00
3.	Salem & Erode	Thoppur – Mettur – Bhavani – Erode Road (up to Bhavani) – (SH.20)	94.00
4.	Salem, Dharmapuri, Krishnagiri & Vellore	Salem – Harur-Tirupathur – Vaniyambadi Road – (SH.18)	106.40
		Total	296.00

21.9 Project and Financial Management System (P&FMS)

The main objective is to create Project Management, Financial Management and Employee Service Record in such a way to automate the existing manual procedures through computerisation throughout the State and thereby improve the quality of service of the Department. For this, a consultant has been engaged and the work is in progress.

II MINOR PORTS WING

TAMIL NADU MARITIME BOARD

Within the 1076 Kms coastline of Tamil Nadu, there are 3 major ports at Chennai, Ennore and Tuticorin and 22 minor ports. The major ports developed under the Major Port Trust Act of 1963, are functioning under the control of Government of India and the minor ports developed based on Indian Ports Act of 1908 are functioning under the control of State Government.

1. COMMODITIES HANDLED IN MINOR PORTS

Government Ports

Sl. No.	Port	Loaded	Unloaded
1.	Cuddalore	--	Vinyl Chloride Monomer
2.	Nagapattinam	Diesel and Naphtha	Edible Oil, Crude oil and General cargo

Captive Ports

Sl. No.	Port	Loaded	Unloaded
1.	Ennore Minor Port	-	Liquid Ammonia
2	PY 03 Oil field	Crude oil	-
3	Thirukkadaiyur	-	Naphtha

2. GOVERNMENT PORTS

(i) Cuddalore Port

M/s. Chemplast Sanmar Limited, have developed Marine Terminal Facility (MTF), within Cuddalore port limits, and handling Vinyl Chloride Monomer (VCM) required for the Poly Vinyl Chloride (PVC) factory, established at SIPCOT Complex.

M/s. Cuddalore Powergen Corporation Limited have proposed to set up a jetty at an approximate cost of Rs.325 crore for which the port limits of Cuddalore Port has been extended. The coastal land measuring 12.66 acres has been allotted on lease basis to the Company. Land acquisition from private/public is under progress by the company.

It was decided by this Board, to offer the existing Cuddalore Minor Port on the basis of Develop, Operate, Maintain, Share and Transfer (DOMST) through Public Private Participation mode. The proposed investment is about 150 crore over a five year period with the revenue to the Board based on the Minimum Guaranteed Annual Throughput. Accordingly, the bids received are under consideration of the Government.

During the year 2010-11 , the following cargo have been handled at this port.

Cargo	No. of Ships	Quantity (Metric Tonnes)
Vinyl Chloride Monomer	33	2,09,968
Petroleum Products and Miscellaneous cargo		1,460
Total	33	2,11,428

(ii) Nagapattinam Port:

M/s. Chennai Petroleum Corporation Limited has established a jetty to handle the products of their refinery and are handling cargo through the jetty.

It was decided by this Board, to develop Nagapattinam minor port as an All weather, Deep water, Direct Berthing, Greenfield port on PPP mode at an approximate cost of Rs.400 crore.

Expression of interest for development is proposed to be released soon.

During the year 2010-11 , the following cargo have been handled at this port.

Cargo	No. of Ships	Quantity (Metric Tonnes)
Edible Oil	9	36117
Crude Oil	31	472671
Naphtha	21	200436
Diesel	14	118041
Petroleum Products		26670
Cement	4	6870
Total	79	860805

(iii) Pamban Port

This port is situated in Rameswaram Island of Ramanathapuram district. The only function at this port is to pilot small drafted vessels passing through Pamban Channel in the Gulf of Mannar. 280 vessels were piloted at this port during the year 2010-11.

(iv) Rameswaram Port

Approval has been granted to commence a short distance passenger ferry service near Agnitheertham in Rameswaram. The infrastructural facilities have been created and the ferry service is now in operation.

(v) Valinokkam Port

This port is situated in Ramanathapuram district. The Environment and Forests Department is not permitting any maritime

activities in this location due to possible adverse effect to marine life. Hence, there is no activity at present.

(vi) Kanyakumari Port

This port, situated in Kanyakumari district, is solely meant for facilitating ferry service between shore and Vivekananda Rock Memorial / Ayyan Thiruvalluvar Statue. M/s. Poompuhar Shipping Corporation Limited is operating this ferry service. 19,25,030 passengers were ferried during the year 2010-11.

(vii) Colachel Port

A Techno Economic Feasibility Report has been prepared for the development of this port which is under consideration of the Government.

3. CAPTIVE PORTS

(i) Kattupalli Port

M/s. L & T Shipbuilding Limited have been granted an in-principle approval for setting up a shipyard cum minor port complex at Kattupalli, in Thiruvallur district, for which, the Government have extended the port limits of Kattupalli port. Coastal land within these port limits, has been allotted to the Company on lease basis. Environmental clearance for this project has been issued by Ministry of Environment and Forests. A proposal requesting to declare Kattupalli as Sea Customs port has been sent to Government of India. North and South Breakwater construction, Ship lift and dredging works are in progress.

(ii) Ennore Minor Port

This port is also situated in Thiruvallur district. The port, consisting the marine structures of Multiple Buoy Mooring System

with submarine pipelines for receiving Liquid Ammonia, had been developed by M/s. Coromandel International Ltd., Chennai. During the year 2010-11, 7 vessels called at this port and 58427 Tons of Liquid Ammonia has been handled .

(iii) Mugaiyur Port

Based on the request of M/s. Marg Swarnabhoomi Port Private Limited to develop a captive Ship repair facility at an approximate cost of Rs.500 crore, this port was declared as a minor port. The company has been allotted coastal land within the port limits of this port on lease basis.

(iv) Thiruchopuram Port

This port was declared for the captive use of M/s. Nagarjuna Oil Corporation Ltd., for receiving 6.5 million tonnes per annum of crude oil and for shipping 2.8 Million tonnes per annum of refined petroleum products for their proposed oil refinery at Thiruchopuram. The Company has achieved financial closure for this project and commenced receiving of Plant and machinery cargo for this refinery.

The request of the Company to assign the development of their captive port to handle other commercial cargo in favour of one of their equity partners, viz., Cuddalore Port Company Private Limited is under consideration of Government.

(v) Silambimangalam Shipyard Port

The port limits of Silambimangalam Shipyard port has been notified by the Government for M/s. Goodearth Shipbuilding Private Limited for establishing a captive shipbuilding yard in Cuddalore district for building of ships. The Government of India has also notified this port under Sea Customs Act.

(vi) Parangipettai Port

Based on the request of M/s. IL&FS Limited to develop a captive port for handling coal required for their proposed 4000 MW Power Plant in Cuddalore district, this port has been notified. Coastal land within the port limits of this port has been allotted to the company on lease basis. Consent to establish the port and power plant from Tamil Nadu Pollution Control Board has been received and field works have started.

(vii) PY-03 Oil Field:

This port, situated 50 Kms South East off Cuddalore, has been exclusively declared for loading Crude oil being extracted from the oil wells situated at PY-3 Oil Field on to ships. The infrastructures have been created at a cost of Rs.33.62 crore. 11 vessels called at this port and 151493 M.T. of Crude Oil has been handled during the year 2010-11.

(viii) Kaveri Port

M/s. PEL Power Limited have proposed to develop a jetty for handling coal required for their 1320 MW Power Plant for which this port has been notified. Proposal to declare this port under Sea Customs Act is under consideration of Government of India.

(ix) Vanagiri Port

M/s. NSL Power Limited have proposed to develop a jetty for handling coal required for their 1500 MW Power Plant for which this port has been notified. Proposal for Customs Notification of this port is under consideration of the Government of India.

(x) Thirukkadaiyur:

This port situated in Nagapattinam district was declared for the captive use of M/s. PPN Power Generating Company so as to handle Naphtha and Natural gas required for their 330 MW gas combined Cycle Power Project at Pillaiperumalnallur.

During the year 2010-11, the following cargo have been handled at this port.

Naphtha	:	9 ships	:	91,053 M.T.
Gas	:		:	2,26,409 M.T.
Crude Oil	:		:	9,739 M.T.
Total:		9 ships	:	3,27,201 M.T.

(xi) Thirukkuvalai Port

The limits of Thirukkuvalai port in Nagapattinam district has been declared for M/s. Tridem Port and Power Company Private Limited, to establish a port to handle coal required for their proposed 2000 MW Merchant Power Plant. The company is in the process of obtaining clearance from Ministry of Environment and Forests, New Delhi for the port project.

(xii) Udangudi Port

This port has been notified as a minor port for M/s. Udangudi Power Corporation Limited, Chennai for establishing an open sea jetty to receive coal for their 1600 MW Udangudi Super Critical Thermal Power Project. The company is in the process of obtaining environmental clearance from Ministry of Environment and Forests, New Delhi.

(xiii) Manappad Port

The Government have declared Manappad in Thoothukudi district as a Minor Port for the captive use of M/s.

Indian Gas Limited, for handling 2.5 Lakh Metric tonnes of LNG per annum required for the proposed 2000 MW Gas Turbine Power Project to be set up by M/s. Indian Power projects Limited. Coastal land within the port limits of this port has been allotted on lease basis for construction of marine facilities.

(xiv) Koodankulam Port

Koodankulam port in Thirunelveli district was declared for the captive use of M/s Nuclear Power Corporation of India Ltd., for their proposed Nuclear Power project at Koodankulam consisting of 2 units of 1000 MW each. A RCC Jetty with necessary breakwater protection has been constructed for receiving over- dimensional and heavy lift Machineries. . During the year 2010-11, no machineries were handled a this port.

4. Ports under process to be declared:

1. Port at Panaiyur, Kanchipuram District

M/s. Coastal Tamil Nadu Power Limited have been granted an in-principle approval for developing a captive port at Panaiyur in Kancheepuram district for handling coal required for their proposed 4000 MW Ultra Mega Power Project. The company has applied for the clearance from the Ministry of Environment and Forests, New Delhi.

2. Marakkanam Port, Villupuram District

An in-principle approval has been granted to M/s. NTPC Limited for setting up a captive port for handling coal required for their 4000 MW Super Thermal Power Project at Marakkanam in Villupuram district. The company is in the process of preparing a Technical Feasibility Report.

3. Chettinad Tharangambadi Port, Nagapattinam District

M/s. Chettinad Power Corporation Limited have proposed to set up a 1200 MW Thermal Power Project at Tharangambadi Taluk in Nagapattinam district. To handle coal required for this power plant, an in-principle approval has been granted to set up a captive port and proposals for declaration of port limits is under consideration of the Government.

4. Port at Sirkazhi Taluk in Nagapattinam District

M/s. Empee Power and Infrastructure Private Limited and M/s. Sindya Power Generating Company Private Limited have proposed to develop a combined port facility in Sirkazhi Taluk to handle coal required for their power plants through an SPV company namely M/s. Sirkazhi Port Private Limited, for which, an in-principle approval has been granted. The company is in the process of obtaining clearance from Ministry of Environment and Forests., New Delhi.

5. TAMIL NADU MARITIME ACADEMY

The Tamil Nadu Maritime Academy at Thoothukudi is functioning under Tamil Nadu Maritime Board. The Academy has so far conducted 16 batches of pre-sea (GP) rating courses. It is conducting General Purpose Crew training Course of 6 months duration with 40 trainees per batch. The Academy is also conducting five STCW-95 courses namely, 'Personal Survival Techniques', 'Elementary First Aid', 'Personal Safety and Social Responsibility', 'Oil Tanker Familiarization' and 'Fire Prevention and Fire Fighting'.

6. TRAFFIC

During the year 2010-11, minor ports in Tamil Nadu handled total cargo of 16,10,588 Metric Tons through 140 vessels.

POOMPUHAR SHIPPING CORPORATION LTD.

Poompuhar Shipping Corporation Limited (PSC) was formed on 11.04.1974 under the Companies Act, 1956 with the objective of transporting the coal required for the Thermal Power Stations of Tamil Nadu Generation and Distribution Corporation (TANGEDCO). The coal required by TANGEDCO is transported from the load Ports at Haldia, Paradip and Vizag and discharged at Ennore and V.O. Chidambaranar, Tuticorin Ports. PSC has acquired three specially designed shallow draft geared bulk carriers of 40000 DWT between August 1985 and January 1987 which are exclusively utilized for this purpose.

The Dead Weight Tonnage (DWT) of the vessels were increased to 45000 M.T during dry docking of the vessels as follows.

<u>Name of the own vessels</u>	<u>Month and Year</u>	<u>Total carrying capacity(M,T)</u>
M.V Tamil Kamaraj	November 2004	45000
M.V Tamil Periyar	May 2005	45000
M.V Tamil Anna	November 2005	45000

In addition to its own three ships, PSC also charters ships from Private Shipping Companies to transport the coal required by TANGEDCO for the various Thermal Power Stations in Tamil Nadu.

1.MOVEMENT OF COAL

The details of linkage of coal, arrival of coal at load ports and coal moved by own and chartered vessels for the last two years are as follows:

(in lakhs Metric Tonnes)

Year	Target for coal movement	Coal arrived at load ports	Coal Moved by Chartered vessels	Coal moved by Own vessels	Total coal moved	Achievements
2009-10	135.68	128.34	94.02	33.86	127.88	99.64%
2010-11	135.00	125.74	97.38	27.11	124.49	99.00%

Physical performance of Own and Chartered Vessels for the period 2009-2010 and 2010-2011 are as follows:

	2009-10	2010-11
Own Vessels		
No. of vessels	3	3
No. of voyages	78	61
Quantity of coal moved (in lakhs MT)	33.86	27.11
Average quantity of coal moved per voyage in MT	43410	44443
Chartered Vessels		
No. of Vessels	7	8
No. of voyages	202	202
Quantity of coal moved (in lakhs MT)	94.02	97.38
Average quantity of coal moved per voyage in MT	45671	48208
Total quantity moved (in lakhs MT)	127.88	124.49

2. PERFORMANCE OF OWN VESSELS

Cargo carried by own vessels per voyage for 2010-11 was 44443 M.T as against 43410 M.T. of cargo carried during 2009-10. Though Own Vessels have crossed over 25 years of

operation they are performing satisfactorily. During the year 2010-11, in spite of two own vessels viz. M.V. Tamil Periyar and M.V Tamil Anna had gone for dry docking survey repairs, own vessels voyage performance was satisfactory .

3. FINANCIAL PERFORMANCE FOR 2009-10 and 2010-11

The estimated profit of PSC for the year 2010-11 is Rs. 296.00 lakhs as against the profit of Rs. 300.00 lakhs earned during the previous year 2009 -10.

4. PANAMAX SELF UNLOADER VESSEL (CHSU)

For the Paradip-Ennore sector One Panamax CHSU vessel (mv.Gem of Ennore DWT 75066 built in 2000) owned by M/s.West Asia Maritime Limited, Chennai, was inducted into PSC service on 19.02.2002 for a TEN YEARS TIME CHARTER. This is a very sophisticated and specially built modern vessel. The vessel has its own discharging gear consisting of cranes and grab and also has conveyor system with a discharge boom. The coal from the vessel is directly discharged to the shore based hopper. This vessel is achieving a discharge rate of 2600 MT per hour, thereby giving fast delivery of cargo to TANGEDCO.

5. HANDYMAX GEARED VESSEL

For Haldia - Paradip- V.O.Chidambaranar Port, Tuticorin Sector and Visakhapatnam – V.O.Chidambaranar Port, Tuticorin Sector, the operation of Handymax Geared vessels will continue to be operated by PSC.

6. KANYAKUMARI FERRY SERVICE

Besides transporting of coal to TANGEDCO'S Thermal Power Stations, PSC is also operating a ferry service from main land of

Kanyakumari to the Vivekananda Rock Memorial and the Ayyan Thiruvalluvar Statue. The physical and financial performances of the ferry service for the last two years are given below:

	2009-2010	2010-2011
No. of Ferry in service	3	3
No. of Passengers ferried (In lakhs)	19.23	19.15
Fare collection (Rs.in lakhs)	377.83	373.35
Operation Profit (Rs.in lakhs)	35.75	10.00 (estimated)

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