



GOVERNMENT OF TAMIL NADU

**HIGHWAYS AND MINOR PORTS
DEPARTMENT**

DEMAND NO. 21

PERFORMANCE BUDGET

2012-2013

2013

PERFORMANCE OF HIGHWAYS AND MINOR PORTS DEPARTMENT DURING 2012-2013

I.HIGHWAYS DEPARTMENT

1 Introduction

Road infrastructure plays a vital role in the economic development of a state. Good quality roads are essential for achieving economic growth in urban and rural areas. Improvement of road infrastructure ensures safe travel and efficient transport of merchandise.

To achieve a balanced socio-economic development, infrastructure facilities such as broader roads, ring roads, bridges, Railway Over Bridges and Junction improvements works are taken up by this department all over the state.

1.1 Road Length

The Highways Department maintains 62017 km length of government roads. 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

Classification of Road	Length (Km)
NH	1500
NHAI	3474
Total National Highways (NH)	4974
State Highways (SH)	10764
Major District Roads (MDR)	11247
Other District Roads (ODR)	35032
Total	62017

TABLE 2
TYPES OF BRIDGES AND THEIR NUMBERS

Types of Bridges	Nos.
Major Bridges	1357
Minor Bridges	7936
Culverts	108915
Railway Over Bridges at Railway level crossing (ROB)	211
Railway Under Bridges at Railway level crossing (RUB)	59
Total	1,18,478

TABLE 3
SURFACE WISE LENGTH

(length in
Kms)

S. No.	Category of Road	Cement Concrete (C.C)	Black Topped (B.T)	Metalled	Total
1	National Highways	2	4972	-	4974
2	State Highways	13	10751	-	10764
3	Major District Roads	10	11237	-	11247
4	Other District Roads	16	35016	-	35032
Total		41	61976	-	62017

TABLE 4
LANEWISE DETAILS OF ROADS

(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	34	1414	39	1500
	b) National Highway Authority of India	-	-	1371	2103	3474
	Sub-Total	13	34	2785	2142	4974
	Percentage of lanewise width of roads		1%	56%	43%	
2	State Highways	32	289	9354	1089	10764
	Percentage of lanewise width of roads		3%	87%	10%	
3	Major District roads	1698	6263	3128	158	11247
	Percentage of lanewise width of roads	15%	56%	28%	1%	
4	Other District roads	31285	2837	862	48	35032
	Percentage of lanewise width of roads	89%	8%	3%		
	Total	33028	9423	16129	3437	62017
	Percentage of lane width to the total length of roads	53%	15%	26%	6%	

2 Plan Schemes

2.1 Financial Performance For 2012-2013

The financial performance under the plan schemes for the year 2012-2013 and Budget Estimate for the year 2013-2014 are given in **Table 5**.

TABLE 5
FINANCIAL PERFORMANCE

(Rupees in Lakhs)

S. No.	Name of Scheme	2012-2013		2013-2014 Budget Estimate
		Budget Estimate	Expenditure	
Construction and Maintenance				
State Highways				
1	Bridges (Part II Scheme)	200.08	325.59	100.08
2	Roads (Part II Scheme)	3380.08	0.00	5070.07
3	16 major works	220.44	219.84	200.91
4	Bridges- 17 minor works	50.00	33.00	43.00
Sub-Total		3850.60	578.43	5414.06
Major District Roads				
5	Major District Roads (Part II Scheme)	0.08	0.00	0.08
6	16 Major works	220.44	220.00	200.53
7	17 minor works	60.00	57.00	50.00
Sub-Total		280.52	277.00	250.61
Other District Roads				
8	Other District Roads (Part II Scheme)	0.17	0.00	0.17
9	16 major works	221.10	220.00	200.00
10	17 minor works	100.00	96.00	50.00
Sub-Total		321.27	316.00	250.17

S. No.	Name of Scheme	2012-2013		2013-2014 Budget Estimate
		Budget Estimate	Expenditure	
	Rehabilitation of Distressed Bridges			
11	Rehabilitation of Distressed Bridges (Part II Scheme)	96.77	158.00	0.06
12	16 major works	100.00	100.00	200.07
	Sub-Total	196.77	258.00	200.13
13	construction of bridges in Unbridged crossings (Part II Scheme)	0.02	0.00	0.02
14	Other Roads (Part II Scheme)	1199.72	1200.01	249.18
	Comprehensive Road Infrastructure Development Programme			
15	CRIDP – SH	79685.00	79685.00	85047.05
16	CRIDP - MDR	59375.00	59375.00	63785.29
17	CRIDP - ODR	19940.00	19940.00	22877.66
18	CRIDP - SCP	31500.00	31500.00	31500.00
	Sub- total	190500.00	190500.00	203210.00
19	Plastic and Litter Free Highways	26.25	26.25	26.25
20	Improvement to Chennai Radial Roads	0.02	0.00	0.02
	Acquisition of lands for bypasses			
21	(i) works	0.02	0.00	0.02

S. No.	Name of Scheme	2012-2013		2013-2014 Budget Estimate
		Budget Estimate	Expenditure	
22	(ii) lands	0.07	358.06	1452.87
	Acquisition of land Sub- total	0.09	358.06	6452.89
23	Improvement of roads in Kancheepuram City under Textile Centre Infrastructure Development Scheme	0.01	0.00	0.00
24	Improvement of vital roads in industrial areas through Tamil Nadu Road Infrastructure Development Corporation	6000.02	3000.00	6242.61
25	Chennai - Outer Ring Road (Phase-I&II)	24000.00	11311.91	15000.00
26	Construction of Buildings	964.05	815.00	2103.52
27	Improvement to accident prone spots	0.01	0.00	0.01
28	Improvement of roads with loan assistance from HUDCO/ TUFIDCO	0.01	0.00	0.00
29	Upgradation of IT highway in Chennai	0.02	23617.98	0.02
30	Improvements of roads in Coastal Districts	0.01	0.00	0.01
31	Improvements of roads in Industrial Areas	0.02	0.00	0.02

S. No.	Name of Scheme	2012-2013		2013-2014 Budget Estimate
		Budget Estimate	Expenditure	
32	City Traffic Improvement works	0.01	0.00	0.01
33	Construction of bridges in PU areas	0.01	0.00	0.01
34	High density Corridor	0.01	0.00	0.01
35	Improvements to Junctions in Rajiv Gandhi Salai	5000.01	45.27	0.02
36	Special repairs to State Highways affected by flood and cyclone	0.01	0.00	0.01
37	Formation of Roads in Tribal areas	0.01	0.00	0.01
38	Schemes implemented under State Infrastructure and Amenities fund-Controlled by CE(H) C&M		50.00	696.00
39	Contribution of State Government to Port Connectivity project-Chennai Ennore Port Road Company Ltd.,		1016.00	0.01
	Plan – Total (Construction and Maintenance)	232339.46	233369.91	240095.60
40	Tsunami – Centrally assisted	8000.00	2979.75	3193.56
	Total for Construction and Maintenance	240339.46	236349.66	243289.16

S. No.	Name of Scheme	2012-2013		2013-2014 Budget Estimate
		Budget Estimate	Expenditure	
NABARD and Rural Roads				
41	Improvements to Major District Roads/ Other District Roads under NABARD loan assistance	829.75	2283.90	19160.01
42	Construction / Reconstruction of Bridges in Government roads with loan assistance from NABARD	927.37	319.35	371.34
43	Construction of bridges in Government and rural roads	18592.54	13718.11	23300.00
44	Improvements to Rural Roads with NABARD loan assistance	349.61	80.84	0.02
45	Improvements to Bus Route with NABARD loan assistance	17.88	95.71	0.02
46	Improvements to Rural roads with loan assistance from NABARD under Special Component Plan	0.02	--	0.02
47	Construction of bridges under Tsunami Emergency Assistance Project with loan assistance from ADB	0.02	---	0.02

S. No.	Name of Scheme	2012-2013		2013-2014 Budget Estimate
		Budget Estimate	Expenditure	
48	Bypass works (L.A.)	10000.00	5269.01	3379.33
	Plan – Total Nabard and Rural Roads	30717.19	21766.92	46210.76
49	Tsunami Rehabilitation Programme	2774.00	1502.25	541.44
	Total NABARD for and Rural Roads	33491.19	23269.17	46752.20
	Projects			
50	Construction of over and under bridges in lieu of existing level crossings JJ	2326.13	2729.92	16535.86
51	Construction of ROB in Chennai Metro Area for Traffic Management JD	10875.31	5186.73	8767.18
52	Construction / Reconstruction of bridges and Improvement of Road with loan assistance from HUDCO Ltd., JE	379.86	714.34	0.33
53	Construction/ Reconstruction of bridges and improvement of roads with loan assistance from NABARD JQ	1711.01	1122.20	191.11
54	Provision for road works under TNUDP JN	0.01	1589.04	0.02

S. No.	Name of Scheme	2012-2013		2013-2014 Budget Estimate
		Budget Estimate	Expenditure	
55	Construction of Road Over Bridge/Road Under Bridge in lieu of level crossings JT	51316.00	26546.18	51173.96
56	Madurai Radial Roads JU	0.01	0.00	0.01
57	CRIDP - Madurai Radial Roads Phase - II	0.01	0.00	0.01
58	Rural Roads - Marketing centre	0.01	0.00	0.01
59	Roads in cyclone affected areas	0.06	0.00	0.06
60	Construction of Interchange at the junction of Pondy-Krishnagiri road under IS&EI	0.01	0.00	0.01
61	City Traffic Improvement works - CE (Projects)	0.01	0.00	0.01
	Total for Projects	66608.43	37888.41	76668.57
Metro				
62	Chennai Metropolitan Development Plan	12681.00	3028.03	25000.00
	Total for Metro	12681.00	3028.03	25000.00
National Highways				
63	Revamped Central Road Fund Scheme	13733.55	12000.00	16300.00
64	Inter State Connectivity Scheme	1000.20	-	1000.00

S. No.	Name of Scheme	2012-2013		2013-2014 Budget Estimate
		Budget Estimate	Expenditure	
65	Economic Importance Scheme	1000.01	238.50	1000.01
66	Bharat Nirman Scheme(Tender excess and Maintenance to be borne by State Government)	284.79	248.69	248.69
67	Western Ghats Development Programme (Road Sector)	100.02	-	100.04
68	State Plan - Miscellenous Original Works	0.05	335.84	0.02
	Total for National Highways	16118.62	12823.03	18648.76
Tamil Nadu Road Sector Project				
69	Establishment charges for Revenue staff for PMG and special staff for Environment Project Management	61.40	27.54	91.72
70	Establishment charges for PMG	511.20	387.91	481.27
71	TNRSP	6757.90	11161.58	2261.08
	Total for TNRSP	7330.50	11577.03	2834.07
Quality Assurance & Research				
72	Institute of Highways Research and Management	0.01	0.00	0.01

S. No.	Name of Scheme	2012-2013		2013-2014 Budget Estimate
		Budget Estimate	Expenditure	
73	Equipment for lab	68.00	52.59	0.01
74	Operation and Maintenance measurement and data acquisition system in respect of ODR and SH			5.40
	Total for Quality Assurance & Research	68.01	52.59	5.42
	Plan – Total (All wings)	365863.21	320505.92	409463.18
	Tsunami Rehabilitation Scheme – Total (All wings)	10774.00	4482.00	3735.00

2.2 Physical Performance

The physical targets and achievements under the plan schemes for the year 2012-2013 and targets for the year 2013-2014 are given in **Table 6**.

TABLE 6
PHYSICAL PERFORMANCE

S. No.	Name of Scheme	Achievements 2012-2013		Targets 2013-2014	
		Bridges/ Culverts/ Structures in Nos.	Roads length in km.	Bridges/ Culverts/ Structures in Nos.	Roads length in km.
(1)	(2)	(3)	(4)	(5)	(6)
Construction and Maintenance					
1	Part II Scheme				
	Buildings	35		33	
	Bridges	6		1	
2	Comprehensive Road Infrastructure Development Programme				
	State Highways	57	1236	60	1350
	Major District Roads	55	1582	60	1700
	Other District Roads	68	642	70	750
	Other District Roads Special Component Plan (CRIDP)	49	1166	55	1150
	CRIDP total	229	4626	245	4950
	Plan Total				
	Roads/ Bridges	235	4626	246	4950
	Buildings	35		33	

S. No.	Name of Scheme	Achievements 2012-2013		Targets 2013-2014	
		Bridges/ Culverts/ Structures in Nos.	Roads length in km.	Bridges/ Culverts/ Structures in Nos.	Roads length in km.
(1)	(2)	(3)	(4)	(5)	(6)
3	Tsunami Rehabilitation Programme (Centrally Assisted)	1		14	
	Total for Construction and Maintenance				
	Roads/ Bridges	236	4626	260	4950
	Buildings	35		33	
NABARD and Rural Road					
4	Improvements to Major District Roads/ Other District Roads under NABARD loan assistance	---	49.00	---	433.72
5	Construction / Reconstruction of Bridges in Government roads with loan assistance from NABARD	5	---	---	---
6	Construction of bridges in Government and rural roads	64	---	79	---
7	Improvements to Rural Roads with NABARD loan assistance	1	---	---	---
	TOTAL	70	49.00	79	433.72

S. No.	Name of Scheme	Achievements 2012-2013		Targets 2013-2014	
		Bridges/ Culverts/ Structures in Nos.	Roads length in km.	Bridges/ Culverts/ Structures in Nos.	Roads length in km.
(1)	(2)	(3)	(4)	(5)	(6)
8	Tsunami Rehabilitation Programme	---	---	2	6.00
9	Railway Works Programme			3	
	Total for NABARD and Rural Roads	70	49.00	84	439.72
Projects					
10	Road over/ under bridges in lieu of existing Level Crossings JJ		-	1	-
11	Construction of Over Bridges/ Under Bridges in lieu of level crossings JT	14	-	22	-
12	Construction of River bridges JE HUDCO	2	-	1	-
13	Construction of bridges in Cauvery delta districts and Improvement of Sugarcane roads with NABARD loan assistance JQ	1	-	3	-
14	Construction of Road over Bridges in Chennai Metro Area for Traffic Management JD	-	-	1	-
	Total for Projects	17	-	28	-

S. No.	Name of Scheme	Achievements 2012-2013		Targets 2013-2014	
		Bridges/ Culverts/ Structures in Nos.	Roads length in km.	Bridges/ Culverts/ Structures in Nos.	Roads length in km.
(1)	(2)	(3)	(4)	(5)	(6)
Metro					
15	Chennai Metropolitan Development Plan				
	1) ROB/RUB			2	
	2) Grade Separator			2	
	3) River Bridge	1		2	
	4) Roads / Bridges				1
	Total for Metro	1		6	1
National Highways					
16	Revamped Central Road Fund Scheme	1	119.00	-	300.00
17	Inter State Connectivity Scheme				15.00
18	Economic Importance Scheme				40.00
	Total for National Highways	1	119.00		355.00
Tamil Nadu Road Sector Project (TNRSP)					
19	Tamil Nadu Road Sector Project				
	Upgradation				1.00
	Bridges/Minor Bridges	1			
	Total for TNRSP	1			1.00

S. No.	Name of Scheme	Achievements 2012-2013		Targets 2013-2014	
		Bridges/ Culverts/ Structures in Nos.	Roads length in km.	Bridges/ Culverts/ Structures in Nos.	Roads length in km.
(1)	(2)	(3)	(4)	(5)	(6)
	Plan				
	Roads/ Bridges/ Culverts	325	4794	362	5741
	Buildings	35		33	
	Plan Total	360	4794	395	5741
	Tsunami	1		16	6

3 Non-Plan Schemes

Maintenance of roads and bridges are carried out as per IRC norms under Non-Plan scheme. Special repairs and Periodical renewal are also undertaken under this scheme.

During 2012-2013, renewal of 5354 km road works completed. This is inclusive of roads renewed under funds allotted in Thirteenth Finance Commission Grant.

3.1 Financial Performance

The financial performance indicating the details of expenditure incurred during 2012-2013 under various heads of Non Plan and the allocation for 2013-2014 is given in Table 7.

TABLE 7
NON PLAN-FINANCIAL ALLOCATION AND EXPENDITURE

(Rs.in lakhs)

S. No.	Name of Scheme	2012-2013		2013-2014
		Budget Estimate	Expenditure	Budget Estimate
1	National Highways Urban	212.71	212.71	223.35
2	Certain important Roads in the city of Chennai taken from Corporation of Chennai	1914.41	1914.41	2010.13
3	State Highways	13543.35	13732.14	14315.25
4	Major District Roads	12005.19	12213.81	12710.41
5	Other District Roads	43330.43	43986.97	45824.99
6	Sugarcane Roads	1677.81	1677.81	1761.7

S. No.	Name of Scheme	2012-2013		2013-2014 Budget Estimate
		Budget Estimate	Expenditure	
7	Improvements to Nilgiris Ghat Roads	111.45	111.45	94.51
8	13th Finance Commission grant for Highways Department for maintenance of Rural Roads	30164.87	30164.87	31867.00
9	Maintenance of Panchayat and Panchayat Union Roads through Director, Rural Road Development	15135.12	15135.12	15933.00
	Total	118095.34	119149.29	124740.34

3.2 Physical Performance

The length of roads renewed under Non plan maintenance during 2012-2013 and the target for 2013-2014 is given in Table 8.

TABLE 8
NON PLAN -PHYSICAL PERFORMANCE

(Length in Km)

Sl. No	Name of wing	Achievement 2012-2013	Target 2013-2014
1.	Construction and Maintenance	4510	4500
2.	NABARD and Rural Roads	844	900
	Total	5354	5400

4 Schemes being implemented

During the year 2012-2013, an amount of Rs.3658.63 Crore was provided in the Budget Estimate for Highways Department and the expenditure incurred under Plan Schemes is Rs.3205.06 Crore.

4.1 Comprehensive Road Infrastructure Development Programme (CRIDP)

Under this programme, development of road infrastructure like widening and strengthening of roads, Improvements to existing riding surface, formation of bypasses, construction of bridges and culverts, protective works like retaining walls, drains and centre median are being taken up in a comprehensive manner.

4.1.1 State Highways

During 2012-2013, spillover works of widening and improvements in 731 km roads and 70 bridges and culverts have been taken up at a cost of Rs. 754 Crore.

New works for widening and improvements to 1305 km roads, 27 bridges and culverts, 24 protective works at a cost of Rs.903.80 Crore have been sanctioned. This includes widening of 248 km roads of IL to DL at a cost of Rs.149.45 Crore

During 2012-2013, widening and improvements of 1236 km roads and 57 bridges and culverts have been completed at an expenditure of Rs.796.85 Crore.

4.1.2 Major District Roads

During 2012-2013, Spillover works of widening and improvements to 944 km and construction of 33 bridges and culverts have been taken up at a cost of Rs.382 Crore.

New works for widening and improvements to 1588 km roads, 22 bridges and culverts, 15 protective works at a cost of Rs.818.72 Crore have been sanctioned. This include widening of 895 km roads of SL to IL at a cost of Rs. 456.43 Crore.

During 2012-2013, widening and improvements in 1582 km roads and 55 bridges and culverts have been completed at an expenditure of Rs.593.75 Crore.

4.1.3 Other District Roads

During 2012-2013, Spill over works of widening and improvements to 321 km roads and construction of 52 bridges and culverts were taken up at a cost of Rs.46 Crore.

New works for widening and improvements to 763 km roads, 36 bridges and culverts, 22 protective works at a cost of Rs.224.02 Crore have been sanctioned.

During 2012-2013, widening and improvements in 642 km roads and 68 bridges and culverts have been completed at an expenditure of Rs.199.40 Crore.

4.1.4 Improvement of Other District Roads Under Special Component Plan (SCP)

During 2012-2013, Spillover works of widening and improvements to 646 km roads and construction of 53 bridges and culverts were taken up at a cost of Rs.112 Crore.

New works for widening and improvements to 1286 km roads, 29 bridges and culverts, 13 protective works at a cost of Rs.315.95 Crore have been sanctioned.

During 2012-2013, widening and improvements in 1166 km roads and 49 bridges and culverts have been completed at an expenditure of Rs.315 Crore.

4.2 Part II Scheme

State Government allocate a sum of Rs.10 Crore every year to this department for construction of bridges, buildings, travellers' bungalows depending on need and necessity, purchase of equipments for office and laboratory, undertaking research studies and purchase of software etc.

During 2012-2013, spill over works to a value of Rs.15.36 Crore were taken up for construction. This includes 8 bridges and 33 buildings.

Further, new works of 3 circle office buildings, 3 division office buildings, 16 subdivisions, 4 section offices and 7 Traveller's bungalows have been sanctioned at a cost of Rs.8.46 crore.

During 2012-2013, 6 bridges and 35 buildings at an expenditure of Rs.12.99 Crore have been completed.

4.3 Bypasses for Major Towns

Bypasses are undertaken to reduce traffic congestion inside towns and to divert the through traffic away from towns to reach destinations in time.

Under Construction and Maintenance wing, out of 26 bypasses taken up, 8 works have been completed at Cheyyar, Hosur (Phase I), Ilayankudi, Ettukudi, Thuraiyur, Vandavasi, Perambalur (Phase I), Dharapuram (Phase II). 6 bypasses are in progress. Apart from this, Land Acquisition for forming of bypasses at 8 locations are also in progress. For balance 4 bypasses preparation of Detailed Project Report is in progress.

Under Nabard and Rural Roads wing, land acquisition and preparation of Detailed Project Report for forming bypasses at 11 locations is in progress.

Under Projects Wing, construction of Outer Ring Road to Erode Town is in progress.

Under NHDP, out of 99 bypasses taken up by NHAI, 65 bypasses have been completed and 34 works are in progress.

4.4 Performance Based Maintenance Contract

In accordance with the announcement made in the Budget of 2011-2012, Government have sanctioned the Performance Based Maintenance Contract of 191.50 km of State Highways at a cost of Rs.121.62 Crore and 185.98 km of Major District Roads in Pollachi division at a cost of Rs.112.31 Crore. The total cost of the project is Rs.233.93 Crore. The Terms of Reference (TOR) for the entrustment of work are being finalized and works will be implemented by the construction and maintenance wing.

Under Tamil Nadu Road Sector Project II (TNRSP), as per the agreed action plan to World Bank by Government of TamilNadu on 5.12.2012, the TNRSP Phase I upgraded roads will be brought under the PBMC components of TNRSP II. Procurement of the consultant for project preparation is under progress.

4.5 Tsunami Rehabilitation Scheme

Under Construction and Maintenance wing, during 2012-2013, spillover works of 15 bridges at a spill value of Rs.103 Crore have been taken up for implementation. One bridge work has been completed and an expenditure of Rs.29.80 Crore has been incurred under this scheme.

Under NABARD and Rural Roads wing, during 2012-2013, Improvements to 6.00 km length of roads and 2 bridges have been taken up for implementation for Rs.28.64 Crore. An expenditure of Rs.15.02 Crore has been incurred. All works will be completed during 2013-2014.

4.6 NABARD assisted Schemes

4.6.1 Improvements to Major District Roads/Other District Roads

Under this scheme, improvements to roads and construction of bridges in MDR/ODR are taken up with financial assistance from NABARD. Spill over works of 49 km length of roads and 130 new works of 433.72 km length of road sanctioned during 2012-2013, totally 482.72 km length of road at a cost of Rs 224.92 Crore were taken up for execution. Of which 49.00 km length of roads have been completed incurring an expenditure of Rs.22.84 Crore during 2012-2013. During 2013-2014, 433.72 km length of roads will be completed.

4.6.2 Construction of Bridges in Government Roads

During the 2012-2013, spill over works of construction / reconstruction of 7 bridges in State Highways, MDR and ODR were taken up at a cost of Rs.10.25 Crore. During 2012-2013, 5 bridges have been completed incurring an expenditure of Rs. 3.19 Crore and the remaining 2 bridges will be completed during 2013-2014.

4.6.3 Construction Of River Bridges In Government and Panchayat Union Roads

During the year 2012-2013, spill over works of construction / reconstruction of 129 bridges in SH, MDR,

ODR and Panchayat and Panchayat Union Roads were taken up at a cost of Rs.283.52 Crore and 121 Bridges at a cost of Rs 235.00 Crore has been newly sanctioned . Totally 250 Bridges at a cost of Rs.518.52 Crore were taken up for execution. Out of the total 250 bridges, 64 bridges have been completed at an expenditure of Rs.137.18 Crore.

4.6.4 Rural Roads Scheme

Under this scheme, Bituminous road connectivity is provided for villages with a population between 500-1000 including Bridges. During 2012-2013, spill over works of construction of 2 bridges were taken up at a cost of Rs.3.27 Crore. One bridge has been completed.

An expenditure of Rs 0.81 Crore has been incurred under this scheme. Balance one bridge work is in progress and will be completed during 2013-2014.

4.6.5 Bus Route Improvement Scheme

Under this scheme, Bus Plying roads in the Panchayats and Panchayat Unions have been taken up for improvements. During 2012-2013, spill over work of one bridge was taken up at a cost of Rs.172 Lakhs and completed at an expenditure of Rs. 96 lakhs.

4.7 Construction Of Bridges With NABARD and HUDCO Assistance

4.7.1 NABARD Scheme

In order to provide necessary road access in rural areas, bridge works with NABARD assistance are being carried out. Under this scheme, spill over works of four river bridges were taken up, to a value of Rs.96.93 Crore in 2012-2013.

In 2012-2013, one work has been completed at a cost of Rs. 3.08 Crore. A sum of Rs.11.22 crore has been spent for this scheme in 2012-2013.

Three bridge works are in progress and will be completed during 2013-2014.

4.7.2 HUDCO Scheme

In 2012-2013, spillover works of three river bridges were taken up at a cost of Rs.11.04 Crore. Of which, two works have been completed at a cost of Rs.6.74 Crore in the year 2012-2013 and a sum of Rs.7.14 crore has been spent for this scheme in 2012-2013.

Balance one work will be completed at a cost of Rs.4.30 Crore in the year 2013-2014.

4.8 Road Works Under TNUDP

The work of Forming the Southern Sector of the Inner Ring Road was completed already and an amount of Rs. 15.89 crore was spent towards additional compensation for Land Acquisition during 2012-2013.

4.9 Railway Over Bridges (ROB) / Railway Under Bridges (RUB) in Lieu Of Level Crossings

Railway Works Programme:

Under the Railway Works Programme, 130 spillover works were taken up in 2012-2013 by all the wings. Of which, 89 works were taken up by the Projects wing at a cost of Rs.2329.13 Crore.

In 2012-2013, 14 works have been completed at a cost of Rs.263.48 Crore and 29 works are in progress for

a value of Rs.753.56 Crore. The remaining works are in various stages of pre-construction.

Under NABARD and Rural Roads wing, 20 ROBs and 5 RUBs have been taken up at a cost of Rs.468.75 crore. Out of the above, 6 ROBs/RUBs at a cost of Rs.138.01 crore are in progress. The tendering process for 3 ROBs/RUBs at a cost of Rs.88.89 crore has been completed and the works are to be commenced soon. Tenders will be called soon for the remaining 16 ROBs/RUBs.

Under Construction and Maintenance wing, One ROB at Athipattu is in progress at a cost of Rs.16.40 crore.

Under Metro wing, 9 ROBs/RUBs have been taken up at a cost of Rs.289.72 crore. Out of which, Thiruvotriyur RUB and Pattaravakkam ROB are in progress. Remaining 7 ROBs/RUBs are in various stages.

In the year 2012-2013, Government have accorded Administrative Sanction for Rs.100.90 Crore to carry out preliminary works such as Land Acquisition, Shifting of Service Utilities and Investigation for 12 ROBs/RUBs which are in progress.

On completion of land acquisition, Administrative Sanction will be accorded in 2013-2014 for carrying out main bridge works.

A sum of Rs.303.11 crore has been spent for this scheme in 2012-2013.

4.10 Comprehensive Road Infrastructure Development Programme

4.10.1 Erode Outer Ring Road

With a view to minimise the heavy traffic congestion in Erode Town and to have a free flow of traffic, Government have accorded sanction for Rs. 22.00 Crore towards land acquisition for the formation of a ring road from Kokkarayanpettai to Thindal to a length of 14.80 km. Land Acquisition has been completed in the stretch from Km 0/0 to 7/6 and is in progress in the remaining stretch from Km 7/6 to 14/8.

In Phase I, the work of formation of the outer ring road from km 0/0 to 2/2 including construction of a high level bridge across Cauvery River to a value of Rs.14.00 Crore has been taken up as spillover work in 2012-2013 and is in progress.

In phase II, the stretch from km 2/2 to 7/6 to a value of Rs.12.00 Crore has been taken up as spillover work in 2012-2013 and is in progress.

After completion of Land Acquisition in the stretch Km 7/6 -14/8, work will be taken up during 2013-2014.

4.10.2 Erode Government Hospital Junction Improvement

The work on improvements to the junction of the Erode -Perundurai - Kangeyam road near the Government Hospital including Land Acquisition to a value of Rs.11.00 Crore has been taken up as a spillover work in 2012-2013 and the land acquisition is in progress. The improvement to junction will be taken up in 2013-2014.

4.11 Sugarcane Road Development Scheme

The cess fund collected from sugar mills is utilised for the formation of roads from sugar cane growing areas to sugar mills. Under this scheme, during 2012-2013 two spillover road works for a length of 2.83 Km to a value of Rs.0.88 Crore were taken up and completed.

An expenditure of Rs. 0.55 Crore was incurred under this scheme in the year 2012-2013.

4.12 Chennai Metropolitan Development Plan (CMDP)

Chennai being a Metropolitan City is growing fast in all sectors. In order to meet the demand for good 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 categories of works such as widening of roads, resurfacing, improvements to Pedestrian Foot path, Grade Separators, River Bridges, ROB's etc.,

Out of total 473 Km, so far 472 km road widening have been completed. During 2012-2013, one bridge work have been completed and the balance one Km will be completed during 2013-2014.

Further a Grade Separator in Periyar EVR Salai at the junction of Nelson Manickam road and Anna Nagar III Avenue junction have been approved by the Government at a cost of Rs.117 Crore and is in progress.

During 2012-2013, administrative sanction has been accorded for 2 road works at a cost of Rs.45 Crore, 8 bridge works at a cost of Rs.30 Crore, 4 Grade separators at a cost of Rs.271.68 Crore and one sky walk at a cost of Rs.20 Crore and 5 pedestrian subways at a

cost of Rs.19 Crore. These works will be taken up for execution during 2013-2014.

Till 2012 - 13, about Rs.632 Crore have been spent for these works.

Some of the Major works under implementation are detailed below.

4.12.1 Grade Separators

1. At the intersection of Mount Poonamallee road with Kodambakkam - Sriperumpudur road at Porur at a cost of Rs.34.72 Crore is temporarily stopped due to shifting of water mains. Tenders for shifting of water mains is called for. After completion of shifting of water mains, bridge works will be started.
2. At the intersection of Madhavaram High road with G.N.T Road at Moolakkadai, at a cost of Rs.49.55 Crore is in progress.
3. At the intersection of Anna Nagar IIInd Avenue and Mogappair road with Inner Ring road at Tirumangalam at a 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.69.43 Crore, is being 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. On the Highways part, Land Acquisition and approach work will be executed.
5. At the intersection of Nelson Manickam road and Anna Nagar 3rd Avenue road in Periyar EVR Salai in Chennai at a cost of Rs.117 Crore is in progress.

4.12.2 River Bridges

Government have sanctioned Rs.68.70 Crore for 2 river bridges in Chennai Metropolitan Area. The details are:

- Construction of Bridge across Coovam river at the road connecting GWT road at km11/2 and Mogappair near Nerkundram at a cost of Rs.16.04 Crore is in progress.
- High Level Bridge at Ennore Creek on the road connecting Ennore with North Chennai Thermal Power Station in Thiruvallur District at a revised cost of Rs.52.66 Crore is in progress.

4.13 Tamil Nadu Urban Development Project – III

This scheme is being implemented since 2005 with the World Bank loan assistance. Under the traffic component, Highways Department is implementing, 5 Road projects of 36 km length at a cost of Rs.145 Crore in and around Chennai Metropolitan areas. 3 works have been completed and the balance 2 works will be completed during the year 2013-2014.

4.13.1 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 Crore.

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

7. Velachery bypass, near Metro water filling station.

Among these, first 5 foot over bridges are under progress.

4.14 Oragadam Industrial Park Infrastructure Development Scheme

Considering the speedy development of Industries in and around Sriperumpudur in Kancheepuram District, it was decided in the year 2005-06 to improve the road infrastructure facilities in Oragadam Industrial Park at an estimated cost of Rs.300 Crore, and the scheme is under implementation with the revised estimated cost of Rs.462 Crore.

The following works were taken up for implementation in the first phase:

- a.** Singaperumalkoil - Sriperumpudur road (SH-57) (24.60 Km) – Widening the road from single lane to four lane.
- b.** Vandalur – Wallajabad road (SH-48) (33.40 Km) – Widening the road from two lane to four lane.
- c.** Construction of a Grade Separator at Oragadam junction on the Vandalur-Wallajabad road.

These four laning road works were taken up in four packages as indicated:

- i. From Singaperumalkoil to Oragadam - 12.60 km
- ii. From Oragadam to Sriperumpudur (including formation of bypass to Ponthur village for a length of 2.39 Km) - 12.00 km

iii. From Vandalur to Oragadam	- 16.60 km
iv. From Oragadam to Wallajabad	- 16.80 km
Total	- 58.00 km

The road works in the first phase have been completed for a length of 42 Km out of 58 Km. Out of 166 cross drainage works, 122 works have been completed.

The work of construction of a Grade Separator at Oragadam junction at a cost of Rs.21.00 Crore was commenced during April 2010 and has so far executed for a value of Rs.17 Crore and the remaining work is in progress. The total expenditure incurred for the Oragadam Industrial Corridor Project till date is Rs.330 Crore which includes the expenditure of Rs.134 Crore for Land acquisition.

The Land acquisition process is expected to be completed in April 2013 and all the works in the first phase are likely to be completed by 30.06.2013.

The Government have entrusted the work of "Widening the stretch from 12/6 to 24/6 in Singaperumalkoil - Sriperumpudur road from 4 lane to 6 lane" (to a length of 12Km) at an estimated cost of Rs.86.65 Crore to TNRIDC vide G.O.Ms.No.40, Highways & Minor Ports (HS1) Department, dated 01.03.2011 under Phase-II for which tenders were invited in January 2013, and the same is under evaluation. This work is expected to commence in the first quarter of 2013-2014.

4.15 IT Expressway Corridor (IT Expressway)

The IT Corridor phase I was developed as a six lane road to international standards from Madhya Kailash to Siruseri for a length of 20.10 km. The link Road connecting Sholinganallur and East Coast Road for a

length of 2.15 km was widened to four lane. This road is being maintained as a Toll road by IT Expressway Ltd., the Special Purpose Vehicle (SPV) of Tamil Nadu Road Development Company Ltd.

4.16 Chennai Outer Ring Road

In view of the vehicular congestion in the major roads in Chennai City, Orders have been issued for implementing Chennai Outer Ring Road project Phase-I, as a six lane road for a length of 29.65 Km from Vandalur in NH-45 to Nemilichery in NH-205 via Nazarathpet in NH-4 at a cost of Rs.1,081.40 Crore and Phase-II for a length of 30.50 Km at an approximate cost of Rs.1075.00 Crore from Nemilichery in NH-205 to Minjur in Thiruvotriyur Ponneri Pancheti Road (TPP Road) via Padiyanallur in NH-5.

The project has been taken up under Public Private Partnership on Design, Build, Finance, Operate and Transfer (DBFOT) Annuity basis with the concession period of 20 years. Tamil Nadu Road Development Company Limited has been appointed as "Managing Associate" for this project.

At present 83% of the works for phase-I is completed and all the works are programmed to be completed by 31.12.2013.

Evaluations of bids have been completed and proposals are in the process of being placed before the Government for approval.

4.17 Formation Of Road Grids

Work on the Chennai Outer Ring Road (CORR) Project Phase I from Vandalur to Nemilichery is in progress under an Annuity Contract System. It is proposed to form road grids in the Chennai Outer Ring

Road to facilitate development of the region adjoining the road portion.

Since, this is a major orbital corridor for the Chennai Metro region, the traffic emanating on this corridor will have to be provided with a dispersal system. It is necessary to link the orbital corridor with the radial corridors and thus a grid system of road with radial and orbital linkages is essential.

18 numbers of macro grid linkages with the Chennai Outer Ring Road have been identified and Government have sanctioned Rs.5.22 Crore for the preparation of Detailed Project Report.

4.18 Chennai Peripheral Ring Road

In Chennai City, formation of the Chennai Peripheral Ring Road for a distance of 162 Km, connecting Mamallapuram to Ennore port (via) Thiruporur, Singaperumalkoil, Sriperumbudur, Thiruvallur, Thamaraiykkam, Periapalayam, Pudukkottai and Kattupalli has been proposed. Government have sanctioned Rs.10.00 Crore for the preparation of a Detailed Project Report. Tenders for the preparation of the Detailed Project Report (DPR) have been received on 11.03.2013 and are under scrutiny.

5 National Highways - Schemes

Tamil Nadu has 4974 Km length of National Highways. Out of this, 1500 Km length of roads are improved and maintained by National Highways wing of this Department making use of the funds provided by Government of India. The balance 3474 Km length of roads are being maintained by National Highway Authority of India (NHAI).

5.1 Plan Works

During the year 2012-2013, works amounting to the tune of Rs. 348.83 crore works were taken up as spill over. This comprises of 29 road improvement works to a total length of 346.12 Km, seven bridge works and 10 Feasibility/Land acquisition works for bypasses/bridges. In addition to this, the Ministry of Road Transport and Highways, Government of India has sanctioned 18 Nos. of road works to a length of 86.45 Km and one bridge work to the tune of Rs. 104.30 crore under Annual Plan 2012-2013.

During 2012-2013, 16 road works and 2 bridge works were completed which includes 16.40 Km of widening to four lane, 121.04 km length of roads under improvement to riding quality, 104.88 km length of strengthening two lane stretches, 7.80 Km length of paved shoulders, 1 minor bridge and 14 culverts.

An expenditure of Rs.213.06 crore was incurred during 2012-2013.

5.2 Maintenance Works

Under Special Repairs/Periodical Renewal (SR/PR) 7 road works to a length of 73.15 Km at a cost of Rs.30.34 crore were taken up as spill over during 2012-2013. Further the Ministry of Road Transport and Highways, Government of India has sanctioned 9 road works to a length of 61.40 km at a cost of Rs. 31.77 crore during the financial year 2012-2013.

Out of this, 10 road works for a length of 94.35 km were completed with an expenditure of Rs. 46.06 crore during 2012-2013.

Further an amount of Rs.26.09 crore was spent towards Ordinary repairs and Flood damage works.

5.3 Revamped Central Road Fund Scheme

During the year 2012-2013, works at a cost of Rs.86.89 Crore comprising 126.73 Km length of 11 road works and 2 bridge works were taken up as spillover works. In addition to this, the Ministry of Road Transport and Highways, Government of India has sanctioned 19 road works to a length of 208.77 Km amounting to Rs. 166.22 crore as new works. Out of this, 118.83 km length of 11 road works and one bridge work were completed at a cost of Rs. 120 crore during 2012-2013.

5.4 Hill Area Development Programme

Under this scheme, 5 road works to a length of 7.20 Km and 5 CD works amounting to Rs.2.70 crore were taken up as spill over. In addition, the Government has sanctioned 4 road works to a length of 4.00 Km and 3 road protective works amounting to Rs.2.26 crore during 2012-2013.

Out of this, 5 road works to a length of 7.20 Km and 5 CD works have been completed at a cost of Rs. 2.55 crore during 2012-2013.

5.5 Bharat Nirman Programme – Phase III

During 2012-2013 Ministry of Rural Development, GOI has accorded clearance for the proposals under Bharat Nirman Phase III, costing Rs. 278.94 crore for upgradation of 332 Road works to a length of 1064.55 Km in 25 Districts. Accordingly the Government have issued orders vide G.O (D). No. 116, Rural Development & Panchayat Raj (CGS2) Department dated 19.03.13 for its implementation. These works will be completed during 2013-2014.

6 Tamil Nadu Road Sector Project

Tamil Nadu Road Sector Project with the financial assistance from the World Bank is constructing roads conforming to international standards. The project commenced with World Bank assistance at the estimated cost of Rs. 2160 Crore. The current revised estimate of the project is Rs. 2442 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.

6.1 Upgradation of Roads

Under this component, some of the stretches in National Highways and selected stretches of State Highways and Major District Roads along the Arcot – Tiruvarur - Nagapattinam – Tuticorin corridor in 4 packages, Ramanathapuram bypass (10.40 Km) and Kumbakonam bypass (4.10 Km) to a total length of 724 Kms were taken up for upgradation in 6 packages at a cost of Rs.1339.15 Crore. It includes 13 bypasses, 11 ROB's in these bypasses, 15 Major river bridges, 67 Minor river bridges and 1600 culverts. Out of this stretch, 723 km of road works, 11 bypasses, 9 ROB's in these bypasses, 15 Major river bridges, 64 Minor river bridges and 1600 culverts were completed. The balance 3 minor bridge works and its approaches in Kumbakonam bypass will be completed during June 2013. 2 ROB's at Ramanathapuram bypass and Kumbakonam bypasses were executed by Railways as deposit work and completed.

The reconstruction of Tsunami affected bridge between Keezhamanakudi and Melamanakudi villages at a contract price of Rs.21.30 Crore has been completed and inaugurated by Hon'ble Chief Minister on 30.1.2013.

6.2 Road Maintenance Works

Enhanced road maintenance works to the length of 1,033 Km in State Highways and Major District Roads (MDR) were taken up for execution in four phases at a cost of Rs. 430 Crore and completed.

7 e-pathai: (electronic Project, Administration, Traffic, Highway Assets and Information Management System)

The Hon'ble Chief Minister had launched the **e-pathai** (Electronic- Project, Administration, Traffic, Highway Assets and Information Management System) software with Geographical Information System (GIS), Project, Human resources & Finance Management System (P&FMS) and Road Management System (RMS) on 19.06.2012. The IT Cell is monitoring the above software systems under the e-pathai, developed for the effective functioning of the Department.

The Government is giving more importance to upgrade roads and maintain in advanced scientific manner. To comply this two Advance Data Collection Equipment have been procured at a cost of Rs. 3 Crore.

Prioritization of the roads to be improved and its estimation is based on the condition data collected by the equipment. The equipment is able to collect nearly 20000 Km road data in a year and helps to improve the road scientifically and expeditiously.

8 Design Works

In 2012-2013, Preparation and Proof Checking of design and drawings for 8 Railway Over Bridges, one Railway Under Bridges, 15 River Bridges, one Grade

Separator, 7 Foot Over Bridges and 11 design modifications totaling 43 Bridge works have been completed by the Design Divisions.

In 2013-2014, it is proposed to prepare designs and drawings for 38 Railway Over Bridges, 6 Railway Under Bridges, 14 River Bridges, 5 Grade Separators, 4 Flyovers and 3 design modifications. Apart from these 70 works, the detailed project reports to be prepared by the consultants will also be taken up for proof checking.

9 Research Works

Quality Assurance and Research wing of this department takes up continued Research in all aspects of Highway Engineering with a view of optimal utilization of scarce resources, alternate materials/technologies for achieving the best quality road net work. Hence this year also Research on the effect of use of admixtures as Retarder in concrete mix and its effect on Compressive strength of concrete , Transition from Marshall Mix design to super pave design for the design of Bituminous mixes, performance of flexible pavement under various parameters causing distress have been carried out. Journey characteristic of traffic stream like Journey time and speed studies on selected stretches on urban, semi urban and Rural Roads within the state have also been carried out as a research study this year.

II. MINOR PORTS WING

A. TAMIL NADU MARITIME BOARD

Along the 1076 km coastline of Tamil Nadu, there are 3 major ports viz., Ennore, Chennai and Thoothukudi notified under the Major Port Trust 1963 and 23 minor ports notified under the Indian Port Act 1908. The major ports come under the control of Government of India and the minor ports come under the control of the State Government.

1 Commodities Handled in Minor Ports

TABLE 9
GOVERNMENT PORTS

Sl. No	Port	Shipped	Landed
1.	Cuddalore	----	Vinyl Chloride Monomer
2.	Nagapattinam	Diesel and Naphtha	Edible Oil and General cargo

TABLE 10
CAPTIVE PORTS

Sl. No	Port	Shipped	Landed
1.	Kattupalli Port	Containers	-----
2.	Ennore Minor Port	----	Liquid Ammonia
3.	Thirukkadaiyur	----	Naphtha and Natural Gas.

2 PORT DEVELOPMENT

2.1 GOVERNMENT PORTS

2.1.1 CUDDALORE PORT

M/s. Chemplast Sanmar Limited, has 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 has proposed to set up a jetty at an approximate cost of Rs.325 Crore. The port limits of Cuddalore Port has been extended. Land acquisition from private / public is under progress.

The cargo handled at this port during the year 2012-2013 is detailed below:-

TABLE 11

LANDED

Sl. No.	Commodity	No.of Ships	Quantity (in M.T)
1	Vinyl Chloride Monomer	33	2,23,087
2	Machineries		7,779
3	Electrical Goods		2
4	Timber Logs		5,832
	Total		2,36,700

TABLE 12**SHIPPED**

Sl. No.	Commodity	No.of Ships	Quantity (in M.T)
1	Petroleum Product		679
2	Machineries		7,815
3	Miscellaneous		1,418
	Total		9, 912

Grand Total**2,46,612****TABLE 13****SHIPPED**

Sl. No.	SHIPPED	Quantity (units)
1	Two Wheeler	1 No
2	Empty Barrels	140 Nos

2.1.2 A Greenfield Port at Nagapattinam

The existing Nagapattinam Minor Port, located at the mouth of the Kaduvaiyaru river, is a lighterage port handling General cargo. Historically this port was serving the Passenger traffic between Nagapattinam and Singapore/Malaysia. The port was also used for import of wheat and fertilizers. Consequent to the passenger ship meeting with the fire accident and reduction of import of wheat and fertilizers due to the change in Import Policy, the activities at the port came to a standstill. With the Nagapattinam town situated around the Nagapattinam Minor Port, expansion of the existing port became difficult.

As such, it was proposed to prepare a Techno Economic Feasibility Report by engaging I.I.T., Madras to develop an All Weather, Deep Water, Direct Berthing,

Greenfield Port, adjacent to the existing Nagapattinam Minor Port. The I.I.T., Madras, in their report, has recommended developing this port as an All Weather, Deep Water, Direct Berthing Port at an estimate of Rs.380 Crore.

The primary and secondary hinterland of the proposed port at Nagapattinam comprises the districts of Nagapattinam, Perambalur, Villupuram, Salem, Namakkal, Karur, Thanjavur, Thiruvarur and Erode. Accordingly, the Government of Tamil Nadu, vide G.O.Ms.No.7, Highways and Minor Ports (HF 2) Department, dated 20.01.2012, have approved development of an All Weather, Deep Water, Direct Berthing, Green field Port at Nagapattinam on Public Private Participation (PPP) mode through a competitive bid process.

In order to assist this Board with the above bidding process, M/s i-maritime Consultancy Private Limited., Mumbai, have been engaged through a bidding process. After a site visit and initial discussions with this Board, M/s i-maritime Consultancy Limited., have submitted documents such as notice inviting bids, bid documents containing qualification and financial criteria of the bidders and the selection procedure to be adopted in selecting the successful bidder along with a draft concession agreement for further process. Since the analysis of the content of these documents require deeper study, the Board has formed a Technical Sub Committee headed by the Joint Secretary, Finance Department, to analyse the documents and make its recommendations to the Board. Accordingly, the Committee met on 22.01.2013 and have submitted its recommendations to the Board. Based on the recommendations of the Board, further process would be initiated on the bidding.

The cargo handled at this port during the year 2012-2013 is detailed below:-

TABLE 14

LANDED

Sl. No.	Commodity	No. of Ships	Quantity (in M.T)
1	Crude Oil	1	14,952
2	Edible Oil	5	15,061
	Total		30,013

TABLE 15

SHIPPED

Sl. No.	Commodity	No. of Ships	Quantity (in M.T)
1	Naphtha	27	2,70,917
2	Diesel	2	35,466
3	Superior Kerosene Oil	6	34,505
4	Petroleum Product		2
5	Miscellaneous		899
	Total		3,41,789

Grand Total 3,71,802

2.1.3 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. 206 vessels were piloted at this port during the year 2012-2013.

2.1.4 Rameswaram Port

This port is situated in Rameswaram Island of Ramanathapuram district. A short distance passenger

ferry service near Agnitheertham in Rameswaram is available.

1,58,055 passengers were ferried during the year 2012-2013.

2.1.5 Valinokkam Port

This port is situated in Ramanathapuram district. Presently, there is no activity at this port.

2.1.6 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. Poompohar Shipping Corporation Limited is operating this ferry service. Tamil Nadu Maritime Board is supervising the ferry service and derive establishment charges from the Corporation. More than 20 lakh passengers were ferried during the year 2012-2013.

2.1.7 Colachel Port

A Techno Economic Feasibility Report has been prepared for the development of this port as per which establishing a Liquefied Natural Gas (LNG) Terminal here is under consideration.

2.2 Captive Ports

2.2.1 Kattupalli Port

The Government of Tamil Nadu had permitted M/s Tamil Nadu Industrial Development Corpn.Ltd., to form a joint venture with M/s L&T , Mumbai, to implement a Ship yard-cum-Minor Port complex at Kattupalli with certain conditions. One amongst the various conditions is that the joint venture company is

permitted to operate the minor port on captive basis and with a request to Tamil Nadu Maritime Board to consider permitting the joint venture company to handle other commercial cargoes to facilitate optimum usage of the port facilities in accordance with the Minor Port Development Policy of Government of Tamil Nadu.

Based on the above, the joint venture company, namely, M/s L&T Shipbuilding Limited was permitted to construct the Shipyard-cum-Minor Port complex at Kattupalli. The company, upon completion of construction of the Shipyard-cum-Minor Port complex, had approached this Board to commence the captive and commercial operations of the port. This was approved by the Board and this port was inaugurated by the Hon'ble Chief Minister on 30.01.2013.

As part of the port operations, the company has proposed to handle Containers, General and Project Cargo and Automobiles in addition to the captive activities at the Shipyard-cum-Minor Port complex.

The cargo handled at this port during the year 2012-2013 is detailed below :-

TABLE 16

LANDED

Sl. No.	Commodity	No.of Ships	Quantity (in M.T)
1	RMQ Cranes	1	4,908

TABLE 17**SHIPPED**

Sl. No.	Commodity	No.of Ships	Quantity (in M.T)
1	Jacket Platform		3,313
2	Petroleum Products		968
3	Miscellaneous		1
4	Machineries		2,714
	Total		6,996

Grand Total 11,904

TABLE 18

Sl. No.	Containers	Units
1	20 Ft Empty	352
2	40 Ft Empty	288
	Total	640

2.2.2 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 Ltd., Chennai.

During the year 2012-2013, 4 vessels called at this port and 28,786 M.T of Liquid Ammonia has been handled.

2.2.3 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. The company is in the process of obtaining MOEF clearance. This project has been reviewed in the 72nd and 73rd Board meetings and the Board has decided that if this company did not achieve the financial closure before 31.12.2012, the approvals so far granted will be reviewed / revoked.

2.2.4 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 company is in the process of obtaining MOEF clearance.

The company has been informed that the Board has decided not to assign the Thiruchopuram port in favour of M/s. Cuddalore Port Company Pvt Ltd and therefore the port should be developed by Nagarjuna Oil Corporation Limited in their own name and by themselves.

2.2.5 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.

M/s. Goodearth Shipbuilding Private Limited vide their letter dated 12.07.2012 have informed that they have changed their registered office / shareholding pattern, etc., Since M/s. Goodearth Shipbuilding Private Limited has changed their registered office / shareholding pattern, etc., without the prior approval of the Board, the Board has resolved to cancel / withdraw all the approvals / permissions so far granted and the relevant agreements entered into with the company to develop a captive Shipyard within Silambimangalam Shipyard port limits in Cuddalore district as notified vide G.O.Ms.No.183, Highways Department, dated 23.07.2007 and to inform the same to all the concerned authorities of the Centre and State Governments. As such, it has been communicated to the company and to all departments concerned.

2.2.6 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. Consent to establish the port and power plant has been granted by Tamil Nadu Pollution Control Board.

2.2.7 PY-03 Oil Field Port In Cuddalore District

This port, situated 50 Km South East off Cuddalore, has been exclusively declared for loading Crude oil being extracted from the oil wells situated at PY-03 Oil Field on to ships. This Port is in operation since 1997. Due to Cyclone Thane, the FSO Endeavour was brought to Cuddalore port on 01.01.2012. The promoters of PY-03 Oil field have informed that the contract for the vessel

FSO Endeavour and FPU Tahara has been expired and requested permission to sail out the vessel FSO Endeavour out of Cuddalore port. As such, the operation in this port has been temporarily suspended.

2.2.8 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.

This project has been reviewed in the 72nd and 73rd Board meetings and the Board has decided that if this company did not achieve the financial closure before 31.12.2012, the approvals so far granted will be reviewed / revoked.

2.2.9 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.

This project has been reviewed in the 72nd and 73rd Board meetings and the Board has decided that if this company did not achieve the financial closure before 31.12.2012, the approvals so far granted will be reviewed / revoked.

2.2.10 Thirukkadaiyur Port

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. This Port is in operation since 2001.

The cargo handled at this port during the year 2012-2013 is detailed below:

TABLE 19

LANDED

Sl. No.	Commodity	No.of Ships	Quantity (in M.T)
1	Naphtha	18	1,95,678
2	Gas		73,428
3	CrudeOil		4,829
		Total	2,73,935

2.2.11 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.

This project has been reviewed in the 72nd and 73rd Board meetings and the Board has decided that if this company did not achieve the financial closure before 31.12.2012, the approvals so far granted will be reviewed / revoked.

2.2.12 Punnakkayal Port

This port situated in Thoothukudi district was declared as a captive port for the use of M/s. DCW Limited for handling Vinyl Chloride Monomer, Low Sulphur Heavy Stock, Liquified Petroleum Gas etc., The Company has not undertaken any developmental work

for more than 10 years and have recently stated that they have decided not to develop the captive port facilities.

2.2.13 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.

2.2.14 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 Million 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. This project has been reviewed in the 72nd and 73rd Board meetings and the Board has decided that if this company did not achieve the financial closure before 31.12.2012, the approvals so far granted will be reviewed / revoked.

2.2.15 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. All the project cargo for the

Nuclear Power Plant has been received. There is no activity in this Port now.

2.2.16 Chettinad Tharangambadi Port

M/s. Chettinad Power Corporation Limited have proposed to set up a 1200 MW Thermal Power Project at Tharangambadi Taluk in Nagapattinam district. An in-principle approval has been granted this company for setting up of a captive port for handling coal required for this Power Project. This port was declared as a minor port vide G.O.Ms.No.1, Highways and Minor Ports Department, dated 03.01.2012. Action is being taken to allot port land to this company.

3 Tamil Nadu Maritime Academy

The Tamil Nadu Maritime Academy at Thoothukudi is functioning under Tamil Nadu Maritime Board. The Academy has been achieving 100% pass in the last 11 batches. The Academy has so far conducted 19 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'. The 20th batch of GP rating course has commenced from January 2013.

4 Cargo Traffic

During the year 2012 -2013, Minor Ports in Tamil Nadu handled total cargo of 9,33,039 Metric Tons through 98 vessels.

B. 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). 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.

TABLE 20

Name of the own vessels	Month and Year	Total carrying capacity(MT)
M.V Tamil Kamaraj	November 2004	45,000
M.V Tamil Periyar	May 2005	45,000
M.V Tamil Anna	November 2005	45,000

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

Coal Movement for TANGEDCO

The coal required by TANGEDCO is transported from the load Ports at Haldia, Paradip and Vizag and discharged at Ennore and V.O. C Port, Tuticorin.

Coal Movement for NTECL

The corporation has entered into a Memorandum of Understanding on 12.03.2012 with M/s.NTPC Tamil Nadu

Energy Company Ltd., (NTECL), a joint venture company of TANGEDCO and NTPC, for transportation of entire domestic coal from the load ports of Paradip and Gangavaram to Ennore for their upcoming 3 x 500 MW thermal power stations at North Chennai. The corporation has already started its operation by engaging one chartered vessel for NTECL.

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.

TABLE 21

In Lakh 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 in %
(1)	(2)	(3)	(4)	(5)	(6)	(7)
2011-2012	135.50	126.02	93.49	33.11	126.60	100.46%
2012-2013	141.90	131.53	94.94	35.31	130.25	99.03%

Note: 2012-2013 figures are estimated

2. PHYSICAL AND FINANCIAL PERFORMANCE

Physical Performance

Physical performance of Own and Chartered Vessels for the period 2011-2012 and 2012-2013 are as follows:

TABLE 22

	2011-2012	2012-2013
Own Vessels		
No. of vessels	3	3
No. of voyages	74	80
Quantity of coal moved (in lakh MT)	33.11	35.31
Average quantity of coal moved per voyage in MT	44744	44138
Chartered Vessels		
No. of Vessels	8	8
No. of voyages	183	180
Quantity of coal moved (in lakh MT)	93.49	94.94
Average quantity of coal moved per voyage in MT	51089	52744
Total quantity moved (in lakh MT)	126.60	130.25

Note: 2012-2013 figures are estimated

Financial Performance

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

TABLE 23

(Rs. in Crore)

Year	Turn Over	Profit
2010-2011	517.02	2.04
2011-2012	492.63	1.51
2012-2013	650.00	3.00

Note: 2012-2013 figures are estimated

3 Kanyakumari Ferry Service

Besides transporting of coal to TANGEDCO'S Thermal Power Stations and M/s NTECL, 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:

TABLE 24

	2011-2012	2012-2013
No. of Ferry in service	3	3
No. of Passengers ferried (in lakhs)	20.26	20.47
Fare collection (Rs.in lakhs)	394.89	681.59
Operation Profit/Loss (Rs.in lakhs)	(-)46.65	100.00

Note: 2012-2013 figures are estimated

Edappadi K. Palaniswami
Minister for Highways and Minor Ports