

2.18. Roads and Bridges

2.18.1. Availability of adequate and quality infrastructure is a prerequisite for rapid development of a State. Tamil Nadu is served by an extensive road net work. This provides links between urban centers, agricultural centers and habitations in rural areas. Tamil Nadu has a road length of 61420 Km. in various categories i.e National Highways, State Highways, Major District Roads, Other District Roads and Sugarcane Roads under the control of Highways Department.

2.18.2. The growth of the national economy has created new demands for transport infrastructure in general and roads in particular. The phenomenal growth in the vehicle population has created capacity constraints and pavement deterioration. To overcome this, the Government has stepped up investments in road and bridge construction. With the objectives, a comprehensive road development strategy has been formulated to improve the road network in the State. A comprehensive traffic and transportation management plan is being formulated for Chennai Metropolitan Area. The Government is continuously pursuing and taking initiatives to mobilize resources through external agencies like World Bank and internal financial institutions like NABARD, HUDCO, TUFIDCO and through infrastructure bonds to fund the road project.

2.18.3. Road Development is considered an integral part of the total transport system of the country with emphasis on strengthening three functional groups, the Primary System (National Highways and Express ways), Secondary System (State Highways and Major District Roads) and Rural Roads.

2.18.4. The statistics relating to various Government roads in Tamil Nadu are set out in the tables below.

Table: 2.7 Road Length

Classification	Road Length	Authority
National Highways (NH)	4254	Under the control of National Highways Wing
State Highways (SH)	9459	Under the control of Highways Wing (GL)
Major District Roads (MDR)	9451	Under the control of Highways Wing (GL)
Other District Roads (ODR)	36510	Under the control of Highways Wing (GL)
Sugarcane Roads	1746	Under the control of Highways (Project 1) Wing
Total	61420	

Table : 2.8 Lane Wise Length

Category of Road	Single lane	Intermediate lane	Double lane	Multi lane	Total
National Highways	24	--	3909	321	4254
State Highways	2623	1721	4779	336	9459
Major District Roads	5877	1541	1831	202	9451
Other District Roads	34974	993	515	28	36510
Sugarcane Roads	1711	3	32	--	1746
Total	45209	4258	11066	887	61420
%age of lane width to the total length of roads	73.61 %	6.93 %	18.02 %	1.44 %	

2.18.5. Some of the important schemes / programmes proposed to be implemented in 2007-08 are indicated below:

State Funded Schemes

Comprehensive Road Infrastructure Development Programme (CRIDP)

State Highways (SH)

2.18.6. Under CRIDP, 1420.258 Km. length of State Highways roads and one bridge works were taken up. During 2005-06, a length of 455.53 km. of State Highways were improved and one bridge work was completed at a total cost of Rs.23828 lakh. The balance works would be executed and completed in the current year 2006-07. Further, during the year 2006-07, 1078.547 Km. of road works and 23 bridges on State Highways has been sanctioned at a cost of Rs. 283.80 crore.

2.18.7. A sum of Rs.40000.00 lakh is provided in the Annual Plan 2007-08.

Major District Roads & Other District Roads

2.18.8. In Major District Roads under CRIDP, 1675.99 Km. length of MDR were taken up, of which 520.82 Km. of roads were improved at a cost of Rs.22277 lakh. The balance works would be executed and completed in the current year 2006-07.

2.18.9. In Other District Roads under CRIDP, 3596.62 Km. length of ODR and 86 bridges / culverts were taken up, of which, 2260.05 Km. of roads were improved and 30 bridges / culverts have been completed at a cost of Rs.26881 lakh. The balance works would be executed and completed in the current year 2006-07.

2.18.10. A sum of Rs. 54900.00 lakh is provided for Major District Roads and Other District Roads in the Annual Plan 2007-08.

Special Component Plan (Other District Roads)

2.18.11. During this year, 997.907 Km. length of Other District Roads costing Rs.125.98 crore have been sanctioned under CRIDP- Special Component Plan vide G.O.Ms.No.245, Highways (HN1) Department dated 20.11.06. A sum of Rs.7557.75 lakh is provided in the Annual Plan 2007-08.

Chennai Metropolitan Development Programme

2.18.12. In view of the necessity to improve the traffic and transportation facilities in the Chennai Metropolitan Development Area, a comprehensive traffic and transportation management plan has been formulated for Chennai Metropolitan Area. The Spill-over works of 508.24 Km. length of road works and 76 structures costing Rs.367 crore are in progress.

2.18.13. A sum of Rs.30000.00 lakh is provided in the Annual Plan 2007-08.

Centrally Shared Schemes

Revamped Central Road Fund Scheme (CRF)

2.18.14. Out of the amount accrued through levy of cess on the sale of Petrol and High Speed Diesel in the State; the Government of India allocates funds every year for implementation of road works under Central Road Fund. Under this Scheme during the year 2004-05 an amount of Rs.140.62 Crore had been sanctioned for 107 works, which includes 100 Road works and 7 Bridge works Out of this, so far 96 works have been completed and the balance 10 works are in progress. Further 19 works costing RS.36.36 crore. The anticipated expenditure for these works and balance works under Revamped CRF is Rs.32.55 crore. Further for the year 2006 – 07 Government of India has approved 35 road works and 3 Bridge works at a total cost of Rs. 60.90crore and these works will be takenup during 2007 – 08.

2.18.15. A sum of Rs.7500 lakh is provided in the Annual Plan 2007-08.

Pradhan Mantri Gram Sadak Yojana (PMGSY)

2.18.16. The Government have issued orders that Phase IV works of PMGSY programme in all districts (Except Nilgiris district) will be completed by the Highways Department. The Tamil Nadu Road Infrastructure Development Corporation is the nodal agency for this purpose.

2.18.17. Under Phase V of the PMGSY scheme, proposal for a length of 849.13 Km. to the tune of Rs.17432 lakh has been sent and it has been approved by NRRDA and works have been transferred to Rural Development Department.

Bharat Nirman

2.18.18. Under Bharat Nirman Scheme, 4703.01 Km. length of roads have been proposed to be improved at a total cost of Rs.53702 lakh and the approval of Government of India is awaited.

Western Ghat Development Programme

2.18.19. In 2006-07 sanction has been accorded for Rs.102.80 lakh for all the Western Ghats Districts. The works are in initial stages of implementation.

2.18.20. A sum of Rs.22.45 lakh is provided in the Annual Plan 2007-08.

National Highways Development Project (NHDP)

2.18.21. The National Highways Authority of India (NHAI) has proposed to upgrade the National Highways to four - lane / six – lane under the Golden Quadrilateral, North – South Corridor Scheme, Port Connectivity, Other Projects and NHDP Phase III programme as detailed below:

Golden Quadrilateral Programme

2.18.22. Under Golden Quadrilateral Programme ,a total length of 341 Km. in NH 4, 5, 46 and 7,has been taken up for upgradation to four lane at a cost of Rs 1159.67 crore, of which, 285 Km. length of road works have been completed ,the balance works in 56 Km. in NH 4 Kancheepuram-Poonamalle stretch are in progress.

North-South Corridor Programme

2.18.23. Under this Programme widening of NH 7 and NH 47(Salem-Cochin section)to four lane for a length of 756.20 Km. have been taken up at a cost of Rs 3654.74 Crore.In this 34.40 Km. length of road works have been completed and works are in progress in 640 Km. Preliminary works are being taken up.

Port Connectivity Scheme (NH 7A)

2.18.24. Under this scheme, a length of 47 Km. in NH 7A (Palayamkottai – Thoothukudi road) has been taken up for four laning at a cost of Rs 137.79 Crore and is expected to be completed in March 2007.

2.18.25. In NH 45 four laning of roads for 93 Kms length between Tambaram and Tindivanam was completed during 2004-05.Four laning of the stretch between Tindivanam and Trichy has been commenced at an estimated cost of Rs 1260 crore and in progress. Further in NH 45 B, Trichy-Madurai section four laning for a length of 124.70 Km. has been

taken up at a cost of Rs 419.96 Crore and is in progress. Under NHDP Phase III four laning of 1459 Km. Length of National Highways is proposed to be taken up by the National Highways Authority of India under the system of Build Operate and Transfer and works are in initial stages of implementation. Chennai Bypass Phase I from Tambaram to Maduravoyal for 19 Km. was constructed in 2002 with two lane carriageway. Now the project for widening to four lane including service roads and formation of bypasses from Maduravoyal (NH4) to Puzhal (NH5) for 13 Km. under Phase II has been taken up by National Highways Authority of India at a total cost of Rs 480 crore.

2.18.26. To ease the traffic congestion in the important junctions National Highways Authority of India has taken up construction of Grade Separators and Road Over Bridges at Kathipara, Koyambedu, Padi and AirPort including four laning of 4Km length between Koyambedu and Maduravoyal with service roads at a total cost of Rs 196 crore.

Bank Assisted Scheme

HUDCO / NABARD assisted schemes

2.18.27. The following schemes are proposed to be taken up in 2007-08 with assistance from HUDCO / NABARD :

- ? Construction / Reconstruction of Bridges with HUDCO Assistance
- ? Improvements to District and Other Roads Schemes with Loan Assistance from NABARD
- ? Improvements to Bus Routes with Loan Assistance from NABARD
- ? Improvement of Bus Plying Panchayat and Panchayat Union Road with Loan Assistance from NABARD
- ? Bridges in Delta Districts with Loan Assistance from NABARD
- ? Sugarcane Roads with Loan Assistance from NABARD

World Bank Assisted Schemes:

Tamil Nadu Urban Development Project – III (TNUDP III)

2.18.28. Under TNUDP III with World Bank assistance, 20 road works for a length of 148.87 Km. at a cost of Rs.33000 lakh have been taken up. For the above works, Detailed Project Reports are under preparation.

Tamil Nadu Road Sector Project

2.18.29. Tamil Nadu Road Sector Project is under implementation with world Bank assistance. Out of the total project cost of Ts.216000 lakh, the World Bank has provided loan assistance to the tune of Rs.167000 lakh. The project has 3 major components namely 1) Upgradation of 742 Km. of roads and construction of 14 bypasses 2) Enhanced periodical maintenance of 2000 Km. of roads and road safety works and 3) Institutional strengthening.

World Bank Aided Tsunami Relief Works

2.18.30. The Government has sanctioned Rs.5675 lakh to take up 21.75 Km. length of road works and 15 bridge works for restoration of Tsunami affected road and bridges with expenditure from out of World Bank Assisted TNRSP Fund. Out of the above works World Bank has cleared only one bridge work connecting Keela Manakudi and Mela Manakudi villages at a cost of Rs 900 Lakh for the balance works Asian Development Banks Assistance has been sought for.

Asian Development Bank Assisted Scheme

2.18.31. Under this scheme, 5 major bridge works have been taken up at a cost of Rs.4270 lakh in the Tsunami affected districts Tiruvallur, Cuddalore and Nagapattinam with the assistance of Asian Development Bank. Preparation of Detailed Project Report has been entrusted to private consultants and the works are in progress.

Road Over / Under Bridges :

Railway Works Programme

2.18.32. The Government have recommended 48 works for inclusion in the Railway Work Programme. In subsequent years, it is estimated that another 50 works will be recommended for inclusion in Future Railway works Programme within the eleventh five year Plan.

Tamil Nadu Urban Development Programme – II

2.18.33. Nine ROBs / RUBs and three Pedestrian Subways have been taken up with World Bank assistance. Apart from this, the works of Construction of 6 Grade Separators, 1 ROB and 4 River bridges have been sanctioned at a cost of Rs.219000 lakh under CMDP. Preparation of Detailed Project Reports, for all these works is in progress.

Public Private Participation (PPP) Projects.

IT Expressway

2.18.34. The Widening and improvement of road from Madhya Kailash in Adayar to Siruseri in Old Mahabalaipuram road for a length of including 2 Km. East Costal Road link road 20 Km. has been entrusted to the IT Express way Limited (ITEL) which is 100% subsidiary of TNRDC under public-private participation. The above road is designed with world class standards with 6 lane, 2 Non-Motorised lane and 2 service lane. The Express Highways will provide better connectivity to all IT companies situated along this road and will also promote growth in industrial sector especially IT industry and generate substantial employment opportunities. The above works are in progress. The Government is actively considering the proposal to extend this road upto Mahabalipuram in view of the interest shown by number of IT companies to start new ventures in this area.

Ennore Manali Road Improvement Project (EMRIP)

2.18.35. The Chennai – Ennore Port Connectivity Project is taken up by National Highways Authority of India on a commercial format and a separate special purpose vehicle company named Chennai – Ennor Port Road Company Limited has been formed.

2.18.36. The EMRIP Project consist of four components viz. 1) Sea protection works on Ennore Expressway, 2) Widening of Ennore Express way to 4 lane along with service Roads on both sides for 6.8 Km. 3) Improvement and Widening of TPP road and 4) Strengthening of IRR and MORR road. The above works are in progress.

2.18.37. The agreed outlay for the Annual Plan 2007-08 is Rs.2622.12 crore. Of this, the outlays earmarked for Scheduled Caste Sub Plan and Tribal Sub Plan are Rs.524.42 crore and Rs.36.71 crore respectively.