

Chapter – 2

Particulars of Organisation, Functions and Duties

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SUB-CLAUSE (i) OF SECTION 4(1)(b) OF THE RTI ACT, 2005

Particulars of Organisation, Functions and Duties

Good physical connectivity in both urban and rural areas boosts economic growth. The Highways and Minor Ports Department of the Government of Tamil Nadu has been given the mandate of creating, augmenting and maintaining the Road and Port infrastructure of the State.

Better connectivity, broader roads, Ring roads, bridges, ROBs / RUBs and development of minor ports are all aimed at achieving balanced socio-economic development of the State.

2.1 Objective

The objectives of the department are to maintain and improve the roads under the control of the Government, and to provide all weather road connectivity to rural habitations.

2.2 History of the Department:

Government of Tamil Nadu has the unique distinction of creating a separate Highways Department as early as in 1946 exclusively to attend to roads and bridges in the State. It was a part of Public Works Department earlier but is now a separate and distinct department. A new post of Secretary to Government, Highways Department came into being in 1996.

2.3 Vision of the Department

The vision of the Highways Department is to increase the **capacity, connectivity, efficiency and safety** of the Highways System so as to enable balanced socio-economic development of all sections of the people and all regions of the state.

2.4 ROAD NETWORK UNDER THE MAINTENANCE OF THIS DEPARTMENT

62,017 km of roads are being maintained by Central and State Highways Department. Categories of roads and their length as on 01.04.2012 is as follows:-

Category of road	Length (km)
National Highways (NH)	4,974
State Highways (SH)	10,764
Major District Roads (MDR)	11,247
Other District Roads (ODR)	35,032
Total	62,017

In addition to this, roads are also maintained by local bodies and other departments.

Types of Bridges and their numbers (as on 01.04.2012)

Types of Bridges	Nos.
Major Bridges	1357
Minor Bridges	7936
Culverts	108915
Road Over Bridges at Railway level crossing (ROB)	197
Road Under Bridges at Railway level crossing (RUB)	59
Total	1,18,464

NATIONAL HIGHWAYS

The National Highways are roads connecting different State capitals, Major Ports, large industrial areas and tourist centers. These roads have heavy traffic intensity.

The total length of National Highways in Tamil Nadu is 4974 km of which 1500 km are maintained by National Highways wing of the State Government and 3474 km are maintained by the National Highways Authority of India (NHAI).

STATE HIGHWAYS

The State Highways provide connectivity to District head quarters with National Highways and neighbouring states. These stretches have heavy traffic intensity next only to National Highways. The total length of State Highways in Tamil Nadu is 10764 km.

MAJOR DISTRICT ROADS

The Major District Roads connect towns and municipal areas with District head quarters. These roads link to production and marketing centers and these centers in turn are connected with the National Highways and State Highways. In Tamil Nadu, the length of Major District Roads is 11,247 km.

OTHER DISTRICT ROADS

The Other District Roads connect villages and marketing centres with Taluk headquarters and other important roads nearby. These roads are important as they provide mobility for transport of agricultural produce from villages to nearby marketing centers. These roads are the backbone of the rural economy. The Other District Roads are maintained as Single Lane or Intermediate Lane based on the traffic intensity of the roads.

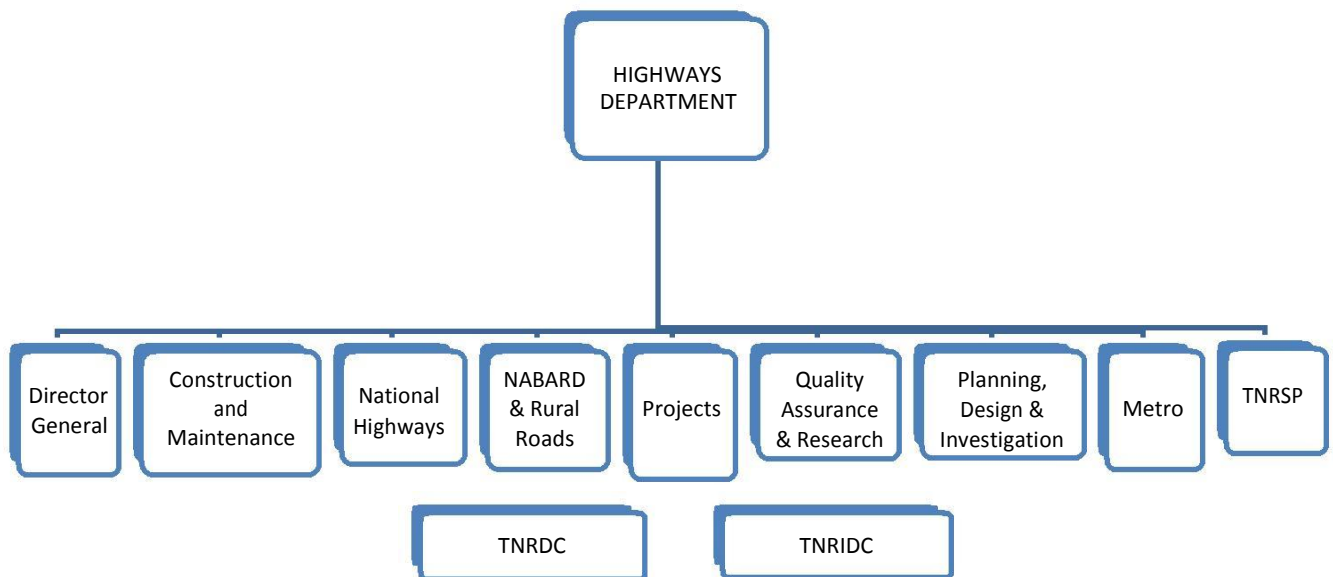
Apart from this the Other District Roads connecting the sugarcane production centers with Sugar mills and in turn with nearby marketing centers

are being improved and maintained under the category of ODR - Sugarcane roads. There are 35,032 km Other District Roads including Sugarcane roads.

LANE WISE DETAILS OF ROAD NETWORK

Sl. No.	Category of Road	Single lane	Intermediate lane	Double Lane	Multi lane	Total
1	National Highways (NH)					
	a)National Highways wing	13	54	1394	39	1500
	b)National Highways Authority of India	-	-	1371	2103	3474
	Sub Total	13	54	2765	2142	4974
2	State Highways (SH)	32	693	9028	1011	10764
3	Major District Roads (MDR)	2791	5289	3033	134	11247
4	Other District Roads (ODR)	31732	2429	823	48	35032
	Total	34568	8465	15649	3335	62017

2.5 Institutional setup



Highways Department functions under the overall coordination of the Director General. There are 6 wings to execute the projects, a wing for Investigation and Design and one wing for monitoring the quality of various projects executed throughout the state by the department. The various wings are:

1. Construction & Maintenance wing – State fund works
2. National Highways wing - Central fund works
3. NABARD & Rural Roads wing – NABARD loan assistance works
4. Projects wing - Railways Works Programme (fund sharing)
5. Metro wing - Chennai Metro Development Programme works
6. Tamil Nadu Road Sector Project – World Bank loan assistance works
7. Planning, Design & Investigation – Investigation and Design of Bridges
8. Quality Assurance and Research – Quality Monitoring System

In addition, two companies are executing Special Projects.

1. Tamil Nadu Road Development Company
2. Tamil Nadu Road Infrastructure Development Corporation.

The functions of all the wings are detailed as follows:

1. OFFICE OF THE DIRECTOR GENERAL

The post of Director General has been created for smooth and efficient functioning of the department and to coordinate the work of all the eight wings. The Director General is also the head of all the Technical Committees.

FUNCTIONS OF THE DIRECTOR GENERAL:

- Overall Planning and Budgeting of Highways Department
- Establishment and Personnel Administration matters in Highways Department
- Monitoring Quality of works executed by the Highways Department
- Coordination of Road Accident Data Management System (RADMS)
- Monitoring the Road Management System
- Any other work entrusted by the Government

2. CONSTRUCTION & MAINTENANCE WING

- Maintenance of State Highways, Major District Roads, Other District Roads and bridges.
- Execution of Part – II scheme works.
- Restoration of roads and bridges affected by natural calamities like monsoons, floods and Tsunami.
- Execution of road and bridge works under Comprehensive Road Infrastructure Development Programme.
- Formation of bypasses.
- Implementation of road infrastructure schemes under Public Private Partnership.
- Maintenance of ODR - Sugarcane Roads.
- Construction of ROBs / RUBs.
- Works are carried out by 8 Circles and 38 Divisions.

3. NABARD & RURAL ROADS WING

- Execution of bridges and roads with loan assistance from NABARD.
- Construction of Road Over Bridges / Road under Bridges under Railway Works Programme.
- Works are carried out by 4 Circles and 14 Divisions.

4. PROJECTS WING

- Road Over and Under Bridges at Railway level crossings under Railway Works Programme.
- Major Bridge works with State funds and NABARD assistance.

- Formation of Ring Roads and Radial Roads.
- Formation of Sugarcane Roads with Sugar Cess fund.
- Works are carried out by 4 Circles and 12 Divisions.

5. METRO WING

- Execution of Chennai Metropolitan Development Plan (CMDP) works.
- Road works, major bridge works and bridge works in road junctions under TNUDP – III.
- Construction of ROBs / RUBs in Metro areas.
- Works are carried out by 1 Circle and 4 Divisions.

6. NATIONAL HIGHWAYS WING

- National Highways Development comprises plan works and maintenance of roads and bridges on National Highways with the funds of the Government of India.
- Revamped Central Road Fund scheme works.
- Inter State Connectivity Scheme works.
- Economic Importance scheme works.
- Western Ghats Development Programme works
- Hill Area Development Programme works
- Works are carried out by 4 Circles and 8 Divisions.

7. TAMIL NADU ROAD SECTOR PROJECT WING

- Road upgradation works with the World Bank assistance.
- Enhanced road maintenance works.
- Undertaking studies for projects to be implemented through Public Private Partnership.
- Strengthening the organisational set-up of Highways Department.
- Establishment of Project & Financial Management system (P&FMS).
- Collection of data pertaining to network of roads in the State utilising Geographical Information System (GIS).

8. QUALITY ASSURANCE AND RESEARCH WING

- Research activities relating to roads and bridges.
- 3 tier quality assurance for all works implemented by this department.
- Road safety and traffic improvement works.
- A quality assurance and research works along with testing are being carried out by 4 Deputy Chief Engineers and 8 Divisional Engineers (Quality Control).

9. PLANNING, DESIGN AND INVESTIGATION WING

- Carrying out investigation for new road and bridge works.
- Preparation of structural designs, drawings and estimates for bridge works costing Rs.2 Crore and above.
- This wing comprises 1 Joint Chief Engineer, 4 Divisional Engineers and 8 Investigation Divisions.

10. TAMIL NADU ROAD DEVELOPMENT COMPANY (TNRDC)

- Implementing major PPP projects
- Management of Chennai Outer Ring Road works.
- Undertaking Rajiv Gandhi IT Expressway works and maintaining as toll road
- Improving and maintaining the East Coast Road (Chennai to Puduchery) as toll road

11. TAMIL NADU ROAD INFRASTRUCTURE DEVELOPMENT CORPORATION

- To formulate, undertake, implement, upgrade and maintain the road infrastructure in the State of Tamil Nadu under any Plan, Programme, and Scheme of the State upon direction by the Government.

2.6 Major activities of the Department

The works under various categories like widening, strengthening, formation of bypasses, construction of bridges etc., are selected for implementation considering the above parameters. The selection of works under each category is detailed below:

- **Widening of roads**
- **Strengthening of roads**
- **Formation of bypasses/ ring roads/ new links**
- **Construction / Reconstruction of bridges and culverts**
- **Construction of Road Over Bridges / Under Bridges at the intersection of railway level crossings**
- **Urban Area Infrastructure Development Projects**
- **Development Projects in Chennai Metro Area**
- **Industrial / Port Connectivity Projects**
- **Special Projects with external funding**
- **Road Safety Works**

2.7 Works taken up by the Department (as on 01.04.2012)

a) ROAD WIDENING

In view of the rising vehicular traffic, widening of the roads becomes essential. Widening of roads is taken up based on traffic intensity and capacity of the road.

In the year 2012-13, Widening of 1354 km roads at a cost of Rs.944 Crore is in progress.

b) STRENGTHENING AND IMPROVEMENTS

The road stretches serving industrial areas are prone to heavy traffic and strengthening of the road pavement is necessary. In order to assess the extent of damage suffered by the pavement, BBD (Benkelman Beam Deflection) test is conducted. Using the traffic and deflection parameters, the total thickness of new layers required is determined and the strengthening of the pavement is carried out accordingly.

In the year 2012-13, Strengthening and improvement works of 1628 km roads at a cost of Rs.2305 Crore are in progress.

c) PERIODICAL RENEWAL AND SPECIAL REPAIRS

The roads in which wearing surface has deteriorated warrant periodical renewal. Periodical renewal of pavement is done in a cyclic manner as per IRC norms. Special Repairs are undertaken to rectify the damaged pavement. These works are being carried out using Non - Plan maintenance grant.

d) MAINTENANCE WORKS

The road surface develops patches and potholes due to continuous flow of traffic. Rectifying the damaged road surface to maintain smooth flow of traffic is essential. The repair is taken up immediately. Packing of BT edges, patch repairs, painting of kilometer, hectameter stones, clearing of bushes, sectioning of berms are undertaken. Renewal and maintenance of roads & bridges are being carried out as per IRC norms.

e) BYPASSES

Bypasses form part of the transport system that helps in diversion of traffic from entering into congested cities and towns. Bypasses reduce the travelling time of through-traffic. Construction of bypasses assumes top priority in managing the traffic growth in cities.

The Department takes up formation of bypasses in two phases (viz) land acquisition in the first phase and formation of road works in the second phase.

f) ROAD OVER BRIDGES (ROB) / ROAD UNDER BRIDGES (RUB)

Construction of ROB / RUBs is undertaken to replace the level crossings under Railway Works Programme on cost sharing mode on priority basis.

184 ROBs / RUBs have been taken up at a cost of Rs.4108.73 Crore. Out of these, 48 works have been completed and 45 works are in progress.

g) GRADE SEPARATORS

Grade Separators are constructed at the junction of major intersections to ease the traffic at grade level. 10 grade separators at a cost of Rs.410 Crore are in progress.

h) RIVER BRIDGES

River bridges are constructed to connect the habitations which are separated by rivers or canals. Out of 455 river bridges taken up at a cost of Rs.946.08 Crore, 191 bridges have been completed.

i) LAND ACQUISITION

Land required for infrastructure projects of Highways Department are acquired under Tamil Nadu Highways Act, 2001. There are 243 road infrastructure projects comprising 78 Road works, 29 River Bridges, 112 Road Over Bridges/ Road Under Bridges, 6 Grade Separators and 18 Bypasses involving land acquisition. For these works an extent of 725 Hectares of private land and 458 Hectares of Government land are required to be acquired or alienated from 514 villages.

Out of 725 Hectares of private land, 103 Hectares have been taken possession of and acquisition of the balance lands is at various stages.

2.8 Schemes being implemented (as on 01.04.2012)

i. Comprehensive Road Infrastructure Development Programme (CRIDP)

The Comprehensive Road Infrastructure Development Programme (CRIDP) is being implemented as a part of Comprehensive Road Improvement Policy from the year 2005 - 06. Under this programme, infrastructure development like widening and improvement of roads, construction of bridges, culverts, protective works like center medians, drains, formation of bypasses in a comprehensive manner are undertaken.

Under this scheme, 971 road works and 238 bridge/ culvert works at a cost of Rs.1054 Crore were taken up as spill over works during 2011-12.

During 2011-12, new works of 2434 road works and 245 bridge/ culvert works at a cost of Rs.1916 Crore have been sanctioned. This includes widening of 383 km IL to DL in SH at cost of Rs.154.92 Crore and widening of 938 km SL to IL & 24 km SL to DL in MDR at cost of Rs.390.77 Crore. These works are in progress.

ii. Improvement to Other District Roads Connecting Adi Dravidar Habitations - Special Component Plan

Under this scheme, improvement of Other District Roads connecting villages with more than 40% of Adi Dravidar population is taken up.

During 2011-12, under this scheme 139 roads and 22 bridges /culverts at a cost of Rs.138.09 Crore are taken up as spill over works. New works of 666 road works and 54 bridges/ culverts have been sanctioned at cost of Rs.275.09 Crore. These works are in progress.

iii. Non - Plan Works

Proper maintenance of road infrastructure is essential for easy movement of traffic. Timely and proper maintenance of roads reduces construction cost. Proper maintenance of bridges constructed at huge cost enhances the life span of these structures.

In addition, maintenance of cross drainage works will facilitate easy draining of flood water during monsoon period and reduces the damage to the riding surface.

Renewal and maintenance of roads and bridges are carried out as per IRC norms under non-plan maintenance fund.

Under this scheme, during 2011-12, maintenance in 6035 km roads have been completed at an expenditure of Rs.985.87 Crore which includes Thirteenth Finance Commission grant also.

iv. Maintenance Works Under 13th Finance Commission Grant-In-Aid

For the current year, Rs.285 Crore have been allotted for maintenance of roads based on the 13th Finance Commission's recommendations. A total length of 2735 km has been taken up for maintenance and completed.

v. Railway Works Programme

Works under Railway Works Programme are selected by Railways with concurrence of State Government, the projects are taken up for implementation on cost sharing basis. The Highways portion of works are executed by Highways.

Out of 184 works sanctioned under this scheme costing Rs.4108.73 Crore, 48 works have been completed at a cost of Rs.744.49 Crore and 45 works are in progress at a cost of Rs.1050.63 Crore.

vi. NABARD Loan Assistance Scheme

Through NABARD loan assistance, Government is implementing various schemes to improve, strengthen and widen the Other District Roads, Major District Roads and to construct bridges.

During 2011 - 12, spillover works of 153 bridges with a cost of Rs 302.39 Crore and newly sanctioned works of 65 Bridges at a cost of Rs.151

Crore with a total number of 218 Bridges at a cost of Rs.453.39 Crore have been taken up for execution. Out of which 73 bridges were completed incurring an expenditure of Rs.165 Crore.

Further, spillover works of 56 Roads at a cost of Rs.96.86 Crore have been taken up and out of this 45 works were completed with an expenditure of Rs 75 Crore.

vii. Part II Scheme

The State Government allocates a sum of Rs.10 Crore every year to this department for construction of bridges, buildings, traveller's bungalows, purchase of office equipment, laboratory equipment and software, conducting research etc., Infrastructure facilities are improved by utilizing this fund.

Under this scheme, 18 works (9 bridges and 9 buildings) at a cost of Rs.16.90 Crore as spill over works and 31 buildings at a cost of Rs.8.63 Crore as new work are taken up. Out of this one Bridge work and 7 buildings have been completed. Balance works are in progress.

viii. Tsunami Rehabilitation Programme

The main aim of this programme is to rehabilitate the roads and structures in Tsunami affected areas. Under this scheme, improvement of roads and construction of bridges in coastal areas serving as escape route during any emergency are being taken up.

Under this scheme 18 bridges at a cost of Rs.160.56 Crore are in progress

ix. Centrally Sponsored Schemes

Government of India has formed the Central Road Fund with the accruals from cess levied on the consumption of High Speed Diesel (50%) and Petrol (100%) and allocates fund for the development of State roads under Revamped Central Road Fund Scheme / Economic Importance Scheme / Inter State Connectivity Scheme.

During 2011-12, 264.08 km length of 20 road works and 5 bridge works were completed incurring an expenditure of Rs.164.36 Crore under the above schemes

x. Road Safety Works

In order to prevent accidents, improvement to accident prone areas or black spots has been taken up. Road safety works like widening of narrow culverts, improvement to accident prone areas such as widening / reconstruction of narrow bridges, Junction improvements and construction of centre median are being taken up using the funds provided by the Home Department.

During 2011-12, 36 spill over works at cost of Rs.19.37 Crore have been taken up and all these works have been completed.

Further during 2011-12, 53 new works for Rs.25 Crore have been sanctioned. Out of which 4 works costing Rs.2.25 Crore have been completed. Balance works are in progress.

xi. Rajiv Gandhi Salai (IT Expressway)

Under Phase-I, Rajiv Gandhi Salai (IT Corridor) was developed as a six lane road of International standards from Madhya Kailash to Siruseri for a length of 20.10 km.

In the second phase, the Government have proposed to construct a six lane road for a length of 25 km from Siruseri to East Coast Road near Mamallapuram, under a viable financial arrangement through Public Private Partnership. The rough cost estimate for the project is Rs.550 Crore.

xii. Chennai Outer Ring Road

In order to reduce the vehicular congestion in Chennai City and to facilitate free flow of traffic around Chennai, Government have decided to construct an Outer Ring Road of six lane width for a length of 60.15 km from Vandalur on NH-45 to Minjur on Thiruvotriyur - Ponneri - Pancheti (TPP) Road. The project is being implemented in two phases.

xiii. East Coast Road Improvement

Taking into account the traffic and environmental feasibility widening and improvements to 765 km of East Coast Road from Chennai to Kanyakumari is being implemented by various wings of the department to ensure quick and comfortable journey.

Widening to two lane and improvement of 113 km road from Thoothukudi to Anjugramam on NH-7 in Kanyakumari District via, Tiruchendur and Koodankulam sanctioned during 2011-12 at a cost of Rs.257 Crore and is in progress.

xiv. Oragadam Industrial Corridor Project

Oragadam Industrial Corridor Project Phase - I has been taken up to encourage development of industries and to attract further industrial growth, Government initiated action to develop the road infrastructure facilities during the year 2005-06 at an estimated cost of Rs.300 Crore, and the scheme is under implementation with the revised estimated cost of Rs.462.42 Crore

Phase-I involve four laning of Singaperumalkoil - Sriperumpudur road (SH-57) (24.00 km) and Vandalur - Walajabad road (SH-48) (33.4 km) and construction of Grade Separator at Oragadam junction.

Under phase-II, Six laning of the stretch from Oragadam to Sriperumbudur of SH-57 has been taken up at an estimated cost of Rs.86.65 Crore.

2.9 Quality Monitoring System

In order to ensure quality of the works executed by the Department, a 3 tier quality control system is in vogue under Quality Assurance wing.

The 3 tier quality control system consists of

- Tier-1 – Assistant Engineer, Assistant Divisional Engineer and Divisional Engineer incharge of execution
- Tier-2 - Assistant Engineer and Assistant Divisional Engineer incharge of quality control
- Tier-3 - Divisional Engineer (Quality Control) and Divisional Engineer from other Wing (excepting the execution wing)

Overall Quality Monitoring will be done by the Chief Engineer, Quality Assurance and Research wing, Joint Chief Engineer, Quality Assurance and Research wing and Superintending Engineers of Other wings (excepting the execution wing)

2.10 Office Hours

Monday to Friday - 10.00 AM to 5.45 PM

2.11 Addresses of the Main Offices

DESIGNATION	OFFICE	FAX NO	ADDRESS
Director General, Highways	044-28558999	044-28529798	O/o the Director General, Highways, PWD Campus, Chepauk, Chennai – 5.
Chief Engineer, Construction and Maintenance	044-28529798	044-28525342	O/o the Chief Engineer, Construction and Maintenance, Highways, PWD Campus, Chepauk, Chennai – 5.
Chief Engineer, National Highways	044-28525701	044-28547979	O/o the Chief Engineer, National Highways, PWD Campus, Chepauk, Chennai – 5.
Chief Engineer, Projects	044 -24320657	044 -24320657	O/o the Chief Engineer, Projects, Highways, Panagal Building, Saidapet, Chennai – 15.
Chief Engineer, NABARD & RR	044-22500158	044-22500158	O/o the Chief Engineer, NABARD & RR, Highways, ELCOT Building, Guindy Thiru. Vi. Ka Industrial Estate, Guindy Chennai – 32.
Chief Engineer, Planning, Designs and Investigation	044-22501541	044-22501104	O/o the Chief Engineer, Planning, Designs and Investigation, Highways, ELCOT Building, Guindy Thiru. Vi. Ka Industrial Estate, Guindy Chennai – 32.
Chief Engineer, Quality Assurance and Research	044-22254642	044-22314852	O/o the Chief Engineer, Quality Assurance and Research, Highways, Highways Research Station, Sardar Patel Road, Guindy Chennai – 25.
Chief Engineer, Metro	044-22314754	044-22314754	O/o the Chief Engineer, Metro, Highways, Alandur Municipal Building, Alandur, Chennai – 16.
Project Director, TNRSP	044-24464414 044-24465360	044-24464414	O/o the Project Director, TNRSP, Highways, TNHB Complex, Dr. Muthulakshmi Salai, Adayar, Chennai – 20.

