



TRANSPORT DEPARTMENT

**POLICY NOTE
2017-2018**

DEMAND NO. 48

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GOVERNMENT OF TAMIL NADU
2017

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TRANSPORT DEPARTMENT
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I. Introduction

The Public Bus Transportation System in Tamil Nadu continues with excellent progress and is improving on the services it provides. The growing population and developing economy requires sustained growth in the public transport system, especially bus transport. The State Transport Undertakings in Tamil Nadu are well equipped to take full advantage of this growth. Public bus transport must ensure safety and security of operations as well as basic comfort of its passengers. This will ensure that passengers reduce dependence on their own vehicles and return to use public transport. Public transportation will need to be more attractive to passengers in order for this to happen.

The quality of life in our urban and rural areas is directly related to the quality of the local public transport especially bus transport. There is a clear need to the public for efficient, high quality, reasonable pricing, safe and secure local bus transport. The transport system touches every aspect of a common man's life. Efforts are being made to make public transport popular and efficient, so that more people use public transport thereby reducing traffic congestion and air pollution.

II. Organisation setup of Transport Department:

Under the administrative control of Additional Chief Secretary to Government, this department is functioning with 1 Joint Secretary, 1 Deputy Secretary, 4 Under Secretaries, 59 Administrative Staff along with 3 Officers and 8 staff in the Chairman's Office. The Additional Chief Secretary to Government, Transport

Department is the Ex-Officio Chairman of all State Transport Corporations and the Chairman-cum-Managing Director of Tamil Nadu Transport Development Finance Corporation Limited. The following organizations are functioning under the administrative control of the Transport Department:

- (i) Eight State Transport Corporations.
- (ii) Tamil Nadu Transport Development Finance Corporation Limited (TDFC)
- (iii) Institute of Road Transport (IRT)
- (iv) Pallavan Transport Consultancy Services Limited (PTCS)
- (v) Motor Vehicle Maintenance Department (MVMD)

The eight State Transport Corporations providing inter-state and intra-state transport services in the State are as below:

- (i) Metropolitan Transport Corporation (Chennai) Limited, Chennai.

- (ii) State Express Transport Corporation Tamil Nadu Limited, Chennai.
- (iii) Tamil Nadu State Transport Corporation (Villupuram) Limited, Villupuram.
- (iv) Tamil Nadu State Transport Corporation (Salem) Limited, Salem.
- (v) Tamil Nadu State Transport Corporation (Coimbatore) Limited, Coimbatore.
- (vi) Tamil Nadu State Transport Corporation (Kumbakonam) Limited, Kumbakonam.
- (vii) Tamil Nadu State Transport Corporation (Madurai) Limited, Madurai.
- (viii) Tamil Nadu State Transport Corporation (Tirunelveli) Limited, Tirunelveli.

CHAPTER-1

State Transport Corporations at a glance

The State Transport Corporations of Tamil Nadu have a fleet strength of 22,533 buses including 1,757 spare buses as on 31.03.2017.

The number of scheduled services as on 31.03.2017 is 20,776. The operational area of the State Transport Corporations extends to the neighbouring States of Karnataka, Andhra Pradesh, Kerala and the Union Territory of Puduchery. All State Transport Corporations operate an average of 92.55 lakh kilometres per day. The total staff strength including reserve is 1,43,195 as on 31.03.2017.

The Government have taken various measures to improve the performance of the State Transport Corporations. As such, the performance indicators have shown positive trend. Fuel efficiency of 5.25 KMPL in

March 2011 has been increased to 5.33 KMPL during March 2017. Kilometre run per condemned tyre 1.65 lakhs KM in March 2011 has increased to 2.08 lakhs KM in March 2017.

1.1. Units of State Transport Corporations:

The State Transport Corporations have the following Units:

Depots (Rural & Urban)	Engine Reconditioning Units and Workshops	Bus Body Building Units	Tyre Re- treading plants	Fitness Certificate Units
321	21	23	18	49

1.2 Bus fare:

The bus fare was revised previously with effect from 18.11.2011 in Tamil Nadu. Neighbouring States Andhra Pradesh and Kerala, have revised the bus fare 3 times and Karnataka has revised the bus fare 4 times after 2011. Though they have revised the bus fare frequently, this Government have not revised the bus fare for the past five years.

A comparative statement of existing fares with other States is given in the tables below:-

Bus Fare in 2011

(In Paise per Km)

State	Fare Effective from	Mofussil (Ordinary)	Express / Semi Deluxe	Super Deluxe	Ultra Deluxe	Air-conditioned
Tamil-Nadu	18.11.2011	42	56	60	70	90
Andhra-Pradesh	16.07.2011	50	62	82	82	140
Kerala	08.03.2010	55	57	65	90	90
Karnataka	26.06.2011	46.44	68.71	83	105.16	137.72

Bus Fare in 2017

(In Paise per Km)

State	Fare Effective from	Mofussil (Ordinary)	Express / Semi Deluxe	Super Deluxe	Ultra Deluxe	Air-conditioned	Volvo
Tamil-Nadu	18.11.2011	42	56	60	70	90	110
Andhra-Pradesh	24.10.2015	62	87	116	116	171	265
Kerala	20.05.2014	64	68	77	110	110	130
Karnataka	10.01.2015	59	90	112	131	177	190

[See Appendix – 1]

1.3 Bus services operated by the State Transport Corporations:

The various bus services operated by the State Transport Corporations to the travelling public as on 31.03.2017 are as follows:

Chennai Metro – City services	3,688
Town Services (in Districts)	6,916
Mofussil services	8,561
Ghat services	528
<u>Express services</u>	
Inside State	648
Outside State	435
Total Services	20,776
Spare Buses for total services	1,757
Total Fleet Strength	22,533

[See Appendix – 2]

1.4 Performance Indicators:

Efforts are taken to optimize the revenue and reduce the cost by route rationalization.

Accordingly, the scheduled services and operated kilometers have been regularized and the variable cost towards the diesel and tyre has been reduced to an extent.

The Physical Performance Indicators from 2011-2012 to 2016-2017 are as follows:

Item	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
Fleet Strength	21,207	22,053	22,501	22,474	23,078	22,533
Scheduled Services	19,507	20,500	20,684	20,684	20,839	20,776
Total Kilometres operated per day (in lakhs Kms)	88.44	89.78	91.20	90.21	94.02	92.55
Breakdown/ 10,000 Km	0.01	0.01	0.01	0.004	0.004	0.004
Accidents/ 1,00,000 Km	0.22	0.20	0.20	0.18	0.18	0.16
Fatal accidents	1237	1233	1187	1165	1258	1209
No. of persons dead in accidents	1397	1382	1318	1331	1460	1373
Fuel Performance (KMPL) Average	5.25	5.27	5.26	5.30	5.29	5.33
Km run per condemned tyre (in lakh kms)	1.65	1.80	1.82	1.92	2.01	2.08
Men per bus	6.40	6.31	6.43	6.48	6.52	6.51

[See Appendix - 3]

1.5 Operational cost:

The increasing establishment cost and diesel price has led to increase in the operational cost of the State Transport Corporations every year. The percentage of cost components during the year 2016-2017 are as follows:-

Sl. No.	Components	Percentage
1	Salary	51.4%
2	Diesel	28.7%
3	Repair and Maintenance	3.3%
4	Depreciation	2.2%
5	MACT Award, Toll Fee and others	6.1%
6	Interest	6.6%
7	Taxes	1.7%
	Total	100%

1.6 Revenue of State Transport Corporations:

Due to frequent diesel price hike, by the Central Government, increase in the cost of spare parts, Wage agreement, hike in D.A. to the employees etc., the State Transport Corporations have been incurring additional expenditures every year. The details of Bus collection and other revenues such as advertisements, sale of drinking water, courier, hire charges and from commercial complexes for the past five years are as follows:-

(Rupees in Crore) / per day

Year	Bus collection per day	Other Revenue	Total income
2012-13	19.87	3.01	22.88
2013-14	20.12	4.59	24.71
2014-15	20.50	4.41	24.91
2015-16	20.76	2.77	23.53
2016-17 (Pre Audit)	20.74	4.63	25.37

[See Appendix – 4]

1.7 Financial Assistance by the Government:

For the past six years (2011-2017), the Government have sanctioned a sum of Rs.7912.71 Crore towards Share Capital Assistance, Loans, Ways & Means Advances, Grant and reimbursement of Student Concession Subsidy as tabulated below:

Share Capital Assistance:

(Rs. in Crore)

Year	New Bus	ETM machine	Reduce outstanding liability in the Books, as working capital/Improve Liquidity & gap Capital Expenditure	Total
2011-12	155.26	7.03	-	162.29
2012-13	150.00	24.63	-	174.63
2013-14	-	-	350.00	350.00
2014-15	125.00	-	228.00	353.00
2015-16	-	-	150.00	150.00
2016-17	150.00	-	-	150.00
Total	580.26	31.66	728.00	1339.92

Loans and Ways & Means Advances:

(Rs. in Crore)

Year	New Bus	Bus Body Renovation	Motor Accident Claim Original Petition	Diesel	Wage Settlement and Bonus & DA arrear	Retired staff settlement	Total
2011-12	137.50	24.395	25.00	81.03	178.14	-	446.065
2012-13	-	-	13.91	-	-	-	13.910
2013-14	-	24.395	-	-	-	-	24.395
2014-15	81.61	-	39.73	-	-	-	121.340
2015-16	125.00	-	-	-	360.00	116.00	601.000
2016-17	57.34	-	-	-	198.45	-	255.790
Total	401.45	48.790	78.64	81.03	736.59	116.00	1462.500

Grant:

(Rs. in Crore)

Year	Motor Accident Claim Original Petition	Diesel	CM award to accident free drivers	Total
2011-12	20.00	-	2.78	22.78
2012-13	20.00	200.00	2.78	222.78
2013-14	20.00	500.00	1.60	521.60
2014-15	20.00	600.00	2.78	622.78
2015-16	30.00	256.72	2.78	289.50
2016-17	30.00	617.17	5.88	653.05
Total	140.00	2173.89	18.60	2332.49

Reimbursement of Student Concession Subsidy:

The Government have also sanctioned Rs.2777.80 Crore towards students concessional subsidy during the years 2011-2012 to 2016-2017 to all State Transport Corporations. (except State Express Transport Corporation Tamil Nadu Limited).

1.8 High Speed Diesel (HSD) Subsidy:

The High Speed Diesel (HSD) oil price increased by Rs.6.07 per litre from 14.09.2012. State Transport Corporations had incurred additional cost due to the High Speed Diesel price increase. State Transport Corporations could not manage this additional cost, as they continued to collect bus fare which was fixed on November 2011. The Government have provided subsidy of Rs.200 Crore for the year 2012-2013, Rs.500 Crore for the year 2013-2014, Rs.600 Crore for the year

2014-2015, Rs.256.72 Crore for the year 2015-2016 and 617.17 Crore for the year 2016-2017, in order to offset the price increase in HSD.

Similarly, the Government have allotted Rs.800 Crore towards HSD subsidy on account of price increase for the year 2017-2018.

CHAPTER-2

Road Safety Measures

2.1 Measures to reduce the Road Accidents:

Due to rapid urbanization, the usage of vehicles has increased in Tamil Nadu. As such, the State Transport Corporations have taken the following effective steps to minimize road accidents.

- (i) Use of cell phones and consumption of alcohol during driving is prohibited.
- (ii) Periodical Police check-up and surprise breath analysing tests by the squads of Transport Department are being conducted to detect cases of drunken driving, if any.
- (iii) In order to take proper rest, crew rest rooms have been upgraded with modern facilities.

- (iv) With the help of Highways and Police Departments, action has been taken to prevent accidents by improving roads, signage and traffic movements in accident prone areas.
- (v) The **Chief Minister's** Awards are given to drivers to encourage accident free driving. The Government have sanctioned Rs.18.60 Crore for this award during 2011-2017 as indicated below :

Year	Amount (Rs. in Crore)
2011-2012	2.78
2012-2013	2.78
2013-2014	1.60
2014-2015	2.78
2015-2016	2.78
2016-2017	5.88
Total	18.60

- (vi) The State Transport Corporations are uniformly adopting a tough stand to dismiss the erring drivers causing continuous fatal accidents.

- (vii) Yoga and meditation training camps are being organised to reduce the stress level among drivers.

The details of fatal accidents for the past 5 years are as follows:

Year	No. of Bus services	No. of Fatal accidents	Total No. of Fatalities
2012-13	20,500	1233	1382
2013-14	20,684	1187	1318
2014-15	20,684	1165	1331
2015-16	20,839	1258	1460
2016-17	20,776	1209	1373

2.2 Accident Claim Settlement Fund:

A separate Corpus Fund has been created during the year 2010 for the speedy and out of court settlement with an intention to give compensation to the injured and legal heirs of

the deceased who are affected in accidents involving State Transport Corporation buses.

Accordingly, for the years 2010-2011, 2011-2012, 2012-2013, 2013-2014 and 2014-2015 respectively a corpus fund of Rs.40 Crore was established with a yearly contribution of Rs.20 Crore by the State Government and the balance Rs.20 Crore proportionately by all State Transport Corporations. From the year 2015-2016, the corpus fund was increased from Rs.40 crore to Rs.60 crore with a yearly contribution of Rs.30 crore by the Government and the balance of Rs.30 crore by all State Transport Corporations. The above Fund is administered by Tamil Nadu Transport Development Finance Corporation Limited, Chennai.

2.3 Lok-Adalat:

The State Transport Corporations are continuing to settle the claims of accident compensation cases from the Corpus Fund through Lok-Adalat. The settlement made by the State Transport Corporations for the past 6 years are given below:-

Year	No. of cases	Amount paid through Lok-Adalat (Rs. in lakhs)
2011-2012	884	997.21
2012-2013	1867	3466.29
2013-2014	1160	569.22
2014-2015	897	1028.14
2015-2016	479	1222.62
2016-2017	404	1241.25
Total	5691	8524.73

CHAPTER-3

Measures initiated for improving Public Services

3.1 Operation of buses:

The total number of scheduled bus services in State Transport Corporations has been increased from 19,110 to 20,776 for the past six years.

3.2 Introduction of new routes:

For the benefit of the travelling public, this Government has introduced 1525 new routes across the State in the past 5 years.

3.3 Introduction of new buses:

The Government have ordered for the procurement of 9153 new regular buses for replacement of very old buses for all State Transport Undertakings. Besides, 208 Hill area buses and 300 Small buses for Metropolitan

Transport Corporation (Chennai) Ltd., Chennai, have also been ordered by the Government during the period 2011-2017. The details are as follows:

Year	No. of buses	Hill area buses	Small Buses
2011-12	3000	-	-
2012-13	2953	-	100
2013-14	-	208	-
2014-15	1200	-	100
2015-16	-	-	-
2016-17	2000	-	100
Total	9153	208	300

3.4 New depots:

In order to increase the number of bus depots according to fleet strength, 74 new depots have been announced for construction. Out of 74 new depots, 40 depots have already been opened, 8 are nearing

completion and in respect of others, action is being expedited. As on 31.03.2017, total number of bus depots are 321.

3.5 Introduction of 200 Small buses in Chennai:

To connect un-served areas with main roads, 200 Small buses in 87 routes with 10 Small spare buses have been introduced and are being operated by Metropolitan Transport Corporation (Chennai) Limited in and around Chennai Metropolitan area. These Small buses have been welcomed positively by the public.

3.6 Ladies Special Buses:

During the peak hours, 255 Ladies Special Buses in 96 routes in Chennai are operated by the Metropolitan Transport Corporation Limited for the benefit of women and children.

3.7 Buses for Differently-abled:

For the convenience of Differently-abled persons 10 Differently-abled friendly buses have been introduced by this Government and are now being operated for the first time by the Metropolitan Transport Corporation (Chennai) Limited.

3.8 Small bus services in Hilly areas:

In order to cater to the needs of public living in un-served hill areas to travel to nearest Towns and Cities, children to travel to school, labourers to their work locations situated in nearest towns and patients to Hospital, Government have ordered for the procurement of 208 Small Buses at a cost of Rs.35 Crore, 66 buses have since begun operation. Under Hill Area Development Fund, Rs.10 Crore have been sanctioned to introduce 66 small buses in Ooty.

3.9 Buses with pantry facility:

Two buses with pantry facility are being operated by the State Express Transport Corporation Limited between Chennai and Trichy via Srirangam.

3.10 Festival Special buses:

Elaborate arrangements are being made to provide adequate bus facilities at normal fares during Deepavali and Pongal seasons to enable the people to go to their native place to celebrate festivals and return back to their place of work all over the State.

All State Transport Corporations have earned considerable revenue during the festival seasons. The details of special services operated

and revenue earned for the past five years are as follows:-

Year	Festival	No. of Special services operated	Total Revenue earned (Rs. in Crore)
2012-2013	Deepavali	7958	87.37
	Pongal	7135	89.70
2013-2014	Deepavali	10484	86.93
	Pongal	9546	93.41
2014-2015	Deepavali	10499	83.96
	Pongal	8548	81.86
2015-2016	Deepavali	15540	83.92
	Pongal	7160	90.51
2016-2017	Deepavali	15033	85.75
	Pongal	13337	95.05

3.11 Voluntary Blood Donation Scheme:

The voluntary blood donor's list is being maintained by Metropolitan Transport Corporation (Chennai) Limited Chennai. So far, 16,888 employees of State Transport Corporations have registered their names under the Voluntary Blood Donation Scheme.

CHAPTER-4

Fare concessions

4.1 The categories of persons availing Travel Concessions are as follows:

- Present / Ex-Members of Parliament / Legislative Assembly and Ex-Members of Legislative Council.
- Accredited Press reporters / Media persons.
- Freedom Fighters drawing Central / State Pension and Widows and Legal-heirs of Freedom Fighters drawing Central Pension/ State Pension / Aged Tamil Scholars / Participants in Language stirs and their Legal-heirs.
- Cancer Patients and Differently-abled persons. (Deaf and dumb, blind, mentally retarded and epileptic patients).

- Drama Artists.
- H.I.V. / AIDS patients.
- Senior Citizen Bus Travel Pass (in all Metropolitan Transport Corporation Buses except Air-conditioned buses from 21.02.2016).

4.2 Special Concession to Students:

To encourage school going children, the Government has granted the following free travel concession in all State Transport Corporation buses (except State Express Transport Corporation Tamil Nadu Limited).

- (i) All Schools including Private Schools recognised by the Government. (1st Standard – 12th Standard)
- (ii) National Child Labour Project.
- (iii) Government Polytechnics.
- (iv) Government Industrial Training Institutes.
- (v) Government Arts and Science Colleges.

The above concession were extended to the following Educational Institutions from 2013-2014 onwards. This concession amount is reimbursed to the State Transport Undertakings by the Government.

- (i) Community Colleges.
- (ii) Government aided Private ITIs.
- (iii) Music Colleges.
- (iv) Chennai Corporation ITIs.

4.3 50% Travel Concession:

- (i) Private Colleges.
 - (ii) Private Polytechnics.
 - (iii) Private Engineering Colleges.
- } Recognised
by
Government.
- (iv) Students with attendant attending Engineering counselling at Anna University, Chennai.
 - (v) Students from Srilankan Refugees Camp studying in recognised Polytechnic Institutions.

4.4 Exchange of Tokens:

For the benefits of College Students travelling to Library and back to their residence, 60 exchange tokens are being issued by Metropolitan Transport Corporation Buses.

4.5 Students Concession Subsidy to State Transport Corporations:

The Government have sanctioned Student Concession Subsidy towards the reimbursement of loss due to issue of Travel Concession passes to students studying in Schools / Colleges / Polytechnics / ITI etc., as below:

Sl. No.	Year	Amount (Rs. in Crore)
1	2011-2012	438.97
2	2012-2013	452.52
3	2013-2014	452.96
4	2014-2015	448.00
5	2015-2016	480.00
6	2016-2017	505.35
	Total	2777.80

In the current financial year 2017-2018, a sum of Rs.540.9905 Crore has been provided towards the reimbursement of Student Concession Subsidy. This concession amount is reimbursed to the State Transport Undertakings by the Government.

4.6 e-ticketing:

To encourage travelling public in State Transport Corporation buses, online e-ticket for long distance routes was introduced with effect from 03.10.2011. Booking through e-ticketing, on an average increased to 50.70% during 2016-2017.

4.7 Travel as you please tickets:

Travel as you please tickets are being issued to encourage the passengers who are travelling in Government Town Buses in Chennai, Madurai, Coimbatore, Salem, Trichy, Tirunelveli, Vellore, Tiruppur, Erode and

Thoothukudi Municipal Corporation areas at the following rates subject to certain conditions:

- (i) One day ticket : Rs.50/-
- (ii) Weekly ticket : Rs.300/-
- (iii) Monthly ticket : Rs.1,000/-

4.8 One Third Concession Bus Pass:

For the benefit of regular travellers, 1/3rd concession bus pass scheme was implemented in City / Town buses and it has been extended to mofussil buses from the year 2013-2014 and this scheme is largely welcomed by the regular travelling public.

4.9 Group Ticket Concession:

10% discount is given for reservation of tickets for 10 or more persons as a group in the State Express Transport Corporation Tamil Nadu Limited. So far, 17,064 such reservations have been done. 2,19,275 commuters have benefited

and Rs.65.23 lakhs concession was availed by the commuters as on 31.03.2017.

4.10 Online Electronic Ticketing Machine:

The Global Positioning System based online electronic ticketing machine is very useful to passengers and also to Conductors for issuing tickets and accounting. It improves operational efficiency of the State Transport Corporations and also for the proper accountability. Under this scheme, 17,451 Electronic Ticketing Machines (ETM) have been introduced in all State Transport Undertakings with financial assistance of Rs.31.66 Crore sanctioned by the Government.

CHAPTER-5

Revenue Enhancing Measures

5.1 Disposal of Condemned Buses (e-Auctioning):

M/s. Metal Scrap Trade Corporation Limited (MSTC), a Government of India Undertaking has been selected as the Service Provider to dispose condemned buses by e-Auctioning. This helps to obtain the best price for condemned buses and other scrap. Accordingly, 4432 buses have been condemned in the past six years (2011-2017) and Rs.68.20 Crore have been earned by the State Transport Corporations.

5.2 Revenue through Advertisement:

The State Transport Corporations have earned a sum of Rs.75.96 Crore for the past five years through advertisements by keeping boards in the buses, at drivers partition, rear side panel, passenger view glass and so on.

5.3 Motels:

During the journey, Hygienic food and snacks are being supplied at reasonable price through tie-up with 28 Motels with infrastructure facilities such as additional bus parking, safe drinking water, modernized kitchen, dining hall and toilet facilities on the routes of long distance buses. For the past 5 years, a sum of Rs.19.54 Crore has been earned through such arrangements by all the State Transport Corporations.

5.4 Parcel and Courier services:

The State Transport Corporations have earned a sum of Rs.245.94 lakhs for the past 5 years through Parcel and Courier Service.

CHAPTER-6

Employees Beneficial Measures

In all State Transport Undertakings have a total strength of 1,43,195 staff as on 31.03.2017. 596 employees are managerial staff, 58,220 drivers, 59,196 conductors, 19,692 Technical staff and 5,491 comes under administrative and other staff. Several beneficiary measures are taken for the welfare of the employees as detailed below :-

6.1 Filling up of vacancies:

Vacancies have been filled by State Transport Undertakings, as detailed below:

Year	Reserve Driver	Reserve Conductor	Technical	Compassionate ground appointment	Total Recruitment
2011-16	15,483	15,157	4,781	1,203	36,624
2016-17	101	43	-	467	611

6.2 Regularisation of service of State Transport Corporation Employees:

The State Transport Corporations have regularised daily paid employees in the category of driver, conductor and technical staff during the past five years, as detailed below:

Driver	Conductor	Technical	Total
16277	17041	4948	38266

6.3 Wage Settlement:

12th Wage Settlement agreement was arrived in April 2015 with effect from 01.09.2013 and the benefits are extended to the eligible employees of the State Transport Corporations. The 13th Wage settlement talks are under progress.

6.4 Master Health Check-up:

Master Health Check-up Scheme began in 2012-2013 for the welfare of drivers of State

Transport Corporations, who are aged above 45 years. Subsequently, this scheme was extended in the year 2013-2014 to all employees of State Transport Corporations. 54,848 employees have undergone Master Health Check-Up under this scheme.

6.5 C.T. Scan Machine:

13,754 employees of all State Transport Undertakings have been benefited by the C.T Scan Machine installed in the Perundurai Medical College Hospital.

6.6 Monetary benefits to the retired employees:

From 2011, a sum of Rs.824.30 Crore has been paid towards settlement of terminal benefits such as gratuity and surrender leave and a sum of Rs.711.67 Crore has been paid towards Provident Fund of the retired employees

of the State Transport Corporations. The details are as follows:-

(Rs. in crore)

Year	Gratuity		Surrender Leave Salary (Rs)	Total (Rs)	Provident Fund	
	No. of Employees	Amount (Rs)			No. of employees	Amount (Rs)
2011-12	1609	42.60	9.61	52.21	1995	148.27
2012-13	2292	82.10	17.17	99.27	3229	61.90
2013-14	5652	194.35	14.51	208.86	4065	97.91
2014-15	1664	68.76	2.16	70.92	4490	129.59
2015-16	3108	137.00	11.31	148.31	4240	135.82
2016-17	2491	182.90	61.83	244.73	3810	138.18
Total	16,816	707.71	116.59	824.30	21,829	711.67

6.7 Welfare Schemes:

The State Transport Corporations extend certain welfare measures for the benefit of workers and their families:-

1. Service Weightage / Review benefits.
2. Leave benefits.
3. Steering Allowance.
4. Educational Assistance.

5. Subsidised canteen facilities.
6. Free uniform and Washing allowances.
7. Marriage Loan.
8. Reimbursement of legal fees.
9. Funeral expenses.
10. Free Travel passes to the children for attending Colleges/Schools.
11. Family Benefit Fund.
12. Voluntary Retirement Scheme.
13. Holiday Home facility at Kodaikanal, Courtallam and Kanniyakumari.
14. New Health Insurance Scheme (as applicable to Tamil Nadu Government Employees).
15. Festival Advance of Rs.5,000/-.
16. Pension Scheme has been continuously implemented and the total strength of pensioners as on 31.03.2017 is 65,855.

17. Infrastructure facilities of Crew rest rooms have been upgraded at a cost of Rs.4.34 crore for the past 6 years (upto 31.03.2017).
18. Infrastructure facilities such as cement concrete platforms and improvement of maintenance shed in depots of all the State Transport Undertakings have been created at a cost of Rs.25.55 crore in the last 6 years.

CHAPTER-7

Skill development for drivers

7.1 To reduce Accidents:

All main civil works are completed except electrical works, flooring, colour washing, laying of tiles in toilet and pavement for running yard in the setting up of an International Standard Driving Research and Training Institute at the cost of Rs.15 Crore at Institute of Road Transport, Gummidipoondi campus for imparting training to drivers in international standards.

7.2 Refresher training to drivers:

Regular refresher training courses with access to yoga and meditation camps are conducted to drivers for reducing their stress level for accident free driving and for their good health.

7.3 Simulator Training:

Technical Simulators are being used to give training to the drivers in Chennai, Trichy, Pollachi and Madurai.

CHAPTER-8

State Transport Corporations

8.1 Metropolitan Transport Corporation (Chennai) Limited, Chennai:

The Metropolitan Transport Corporation (Chennai) Ltd., Chennai is functioning under the control of the Managing Director. The head office is located at Pallavan Salai, Chennai. Metropolitan Transport Corporation (Chennai) Ltd., Chennai is the largest transport service provider in Chennai city and operates city services in the Chennai Metropolitan area and in the adjoining areas in Kanchipuram and Thiruvallur Districts.

- The Metropolitan Transport Corporation (Chennai) Ltd., Chennai is functioning with 33 depots with a fleet strength of 3961. It operates 3688 scheduled services in 833 routes everyday. The total staff

strength is 24336. The various types of services operated are Ordinary, Express, Deluxe, Vestibule, and Volvo Air-Conditioned buses. This corporation has two body building units in Chrompet.

- In order to increase the number of bus depots based on the fleet strength, new depots were announced to be opened at Padiyanallur, Velachery, Kannagi Nagar, Mahakavi Bharathi Nagar, Besant Nagar, Thiruverkadu, Adambakkam, Chrompet-2, Perambur, Kundrathur, Perumbakkam, Thaiyur, Thamaraiyakkam and Gummudipoondi. The following depots have since been inaugurated. Adambakkam, Besant Nagar, Chrompet-2, Mahakavi Bharathi Nagar, Kundrathur, Padiyanallur, Semmenchery and Kannagi Nagar.

- The construction work is under progress in respect of two depots viz, Perambur II and Perumbakkam. Land alienation work is under progress for Thamaraipakkam, Gummudipoondi, Velachery and Thaiyur for construction of depots.
- The Fitness Certificate Unit for buses - Additional Unit at Tondiarpet-I and Ayanavaram is now fully functional.
- During the period from 16.05.2011 to 31.03.2017 680 new buses, 210 small buses and 370 new routes were inaugurated.
- Small Buses were introduced in Chennai City in un-served areas to link with the nearest transit hub.
- For up-gradation of 4 training centres Rs.2.75 Crore has been sanctioned under

skill development scheme for road transport sector from Ministry of Road Transport and Highway, New Delhi through Association of State Road Transport Undertakings (ASRTU).

Facilities extended to the passengers:

- 66 Night services are being operated every day.
- To provide comfortable travel for women and children 250 special buses in 73 routes are operated in Chennai City every day.
- Separate Rooms for Lactating Mothers have been set up at 27 Bus terminals of Metropolitan Transport Corporation (Chennai) Ltd., Chennai and they are under use.

- 2,05,80,317 senior citizen passengers above 60 years have benefited from free bus pass. 47939 senior citizen passengers are travelling on a daily basis.

8.2 State Express Transport Corporation Tamil Nadu Limited, Chennai:

The Corporation is headed by a Managing Director. It has its headquarters in Pallavan Salai, Chennai and operates Inter-city and Inter-state services. The areas of operations have been extended to Kerala, Karnataka, Andhra Pradesh and Puduchery.

- There are 22 depots and a total fleet strength of 1,185 buses. It operates 1,083 scheduled services including 652 services in Tamil Nadu and 431 inter-state services to Andhra Pradesh, Karnataka, Kerala and Puducherry. The total staff strength is 6,449. The various types of services

operated are Deluxe, Classic and Air-Conditioned Buses.

- New depots at Dindigul, Karaikudi, Tirunelveli-2 and Hosur are now fully functional.
- In the past five years, 471 new buses and 56 new routes have been inaugurated.
- 2,522 employees have registered their names to donate blood under the "Voluntary Blood Donation Scheme".
- The Corporation won award for highest performance in vehicle productivity for the year 2012-2013 from Association of State Road Transport Undertakings (ASRTU).
- The Corporation won two Winner Award for having achieved the Highest Performance in Vehicle Productivity and Maximum Improvement in Vehicle

Productivity in Mofussil Services Category from Association of State Road Transport Undertakings (ASRTU) for the year 2013-2014.

- The Corporation won Two Winner Award for having achieved the Highest Performance in Vehicle Productivity and highest KMPL from Association of State Road Transport Undertakings (ASRTU) for the year 2014-2015.
- The Corporation won award for highest performance in vehicle productivity for the year 2015-2016 from Association of State Road Transport Undertakings (ASRTU).
- Trichy bus stand has been identified for developing commercial complex under PPP Mode.
- Bus Body Building Units are functioning in Trichy and Nagercoil.

- AMMA packaged drinking water scheme was inaugurated on 15.09.2013. Hygienic good quality drinking water is provided to the common public and bus passengers at an affordable price of Rs.10/- per bottle. The AMMA packaged drinking water is being sold all over the State.

IT enabled and other facilities for the benefit of the passengers:

- E-Ticketing was introduced similar to the system in Railways and Airways in TNSTC / SETC Buses through Internet and Mobile phones for the convenience of passengers from 03.10.2011.
- Provision of Online Ticket Reservation System (OTRS) in 123 centres with 127 counters in Tamil Nadu and the neighbouring states of Andhra Pradesh, Kerala, Karnataka and Puduchery Union Territory.

- The State Express Transport Corporation Tamil Nadu Ltd., has introduced Online GPRS based Electronic Ticketing Machine (ETM) GPS compatible in three depots.
- SETC Limited has introduced CLASSIC vehicles with pantry and Toilet facilities from 20.06.2013 in the route between Chennai and Srirangam for the benefit of aged persons, Ladies and Diabetic patients.
- Separate Rooms for Lactating Mothers have been set up at 2 Bus terminals of SETC at Thanjavur and Coimbatore and they are under use.

8.3 Tamil Nadu State Transport Corporation (Villupuram) Limited, Villupuram:

The Corporation is headed by the Managing Director with headquarters at Villupuram. The Regional Offices of this Corporation are

functioning at Villupuram, Cuddalore, Tiruvannamalai, Vellore, Kanchipuram and Thiruvallur for monitoring the operation of services. The Corporation operates City, Mofussil and Ghat services.

- The Tamil Nadu State Transport Corporation, Villupuram has 61 depots with the fleet strength of 3680. It operates 3385 scheduled services with a total staff strength of 25106. The Corporation operates Ordinary, Express, Semi Low Floor, Vestibule, Super-Deluxe and Volvo Air-Conditioned buses on various routes.
- In the past five years, 1358 new buses and 259 new routes have been inaugurated.
- The Corporation has been awarded 1st place for the year 2014-2015 and 2015-2016 for highest performance in

Vehicle Productivity for Mofussil Services and 2nd place for the year 2015-2016 for Highest Improvement in KMPL from Association of State Road Transport Undertakings.

- Body Building Units of this Corporation are functioning at Panruti, Vellore and Kanchipuram.

Special facilities provided for the benefit of the passengers:

- Special type of Super Deluxe seat assembly has been provided for 1 to 1, 1 to 3, 1 to 5 and 1 to 6 speed up services in the operational area for the convenience of, end to end travelling passengers.
- Express Services with good seating comfort for passengers in town sectors are being operated.

- Special buses are operated from Chennai-Tiruvannamalai during full-moon day (பவர்த்தி) and Chennai-Melmalayanur during the new-moon day (அமாவாசை) with reservation facilities from Chennai.

8.4 Tamil Nadu State Transport Corporation (Salem) Limited, Salem:

The Corporation is headed by the Managing Director. It has its headquarters at Salem. This Corporation is functioning with two Regional Offices at Salem and Dharmapuri operating Town, Mofussil and Ghat services. Types of services operated are Ordinary, Express and Ultra Deluxe services.

- Tamil Nadu State Transport Corporation, Salem has 32 depots with the fleet strength of 2,219 buses and it operates 2,061 scheduled services. The total staff strength is 13,516.

- This Corporation has provided new services / new routes to the Tribal areas in Kalvarayan hills with 3 buses.
- This Corporation has provided new services / new routes to 34 villages in 2016-17, by extending the routes with the existing services and thereby 10,761 passengers have benefitted.
- In the past five years, 788 new buses and 152 new services in 88 new routes have been inaugurated
- Training Centres are to be setup in Namakkal and Krishnagiri Districts and Training centre at Salem, Dharmapuri Districts are to be augmented from the funds allotted by Ministry of Road Transport and Highways (MoRTH) to this Corporation.

- Refresher courses and Yoga training have been given to 5,283 employees in 2016-2017.
- This Corporation had earned additional revenue of Rs.9.34 Lakhs in 2016-2017, through engaging of Parcel services in the buses.
- This Corporation had earned additional revenue of Rs.42.85 Lakhs in 2016-2017, by stopping the buses at the en-route Motels.
- This Corporation had earned additional revenue of Rs.136.20 Lakhs in 2016-2017, through advertisement boards in our buses.
- In 2016-2017, the General travelling passengers are availing $1/3^{\text{rd}}$ fare concession travel in our buses to the extent of 22,651 passengers in Mofussil

buses and 50,990 passengers in Town buses.

- In 2016-2017, this Corporation had sold “**Amma Drinking Water**” to the travelling public for Rs.44.36 Lakhs.
- This Corporation had won the Association of State Road Transport Undertakings (ASRTU) Awards in March 2017 for the best achievements in the following performances for the year 2015-2016.
 - (i) Winner Award for Highest Tyre performance in Mofussil Services.
 - (ii) Winner Award for Minimum operational cost in Mofussil Services.
 - (iii) Winner Award for Highest performance in vehicle productivity in Mofussil Services.

- (iv) Runner-up award for Maximum improvement in vehicle productivity in Mofussil Services.
- Bus Body Building Units of this Corporation are functioning at Namakkal and Dharmapuri with a capacity of 15 and 10 buses per month respectively.

Additional facilities provided during special/festival days for the benefit of passengers:

This Corporation is providing sufficient special bus transport facilities for the benefit of the travelling passengers to the following tourist places as well as pilgrim spots:-

- During weekends as well as special event days, special bus facilities have been provided to the tourist places viz. Yercaud hills, Kollihills, Hogenakkal water falls and Mettur Dam.

- During festival seasons, special bus facilities have been provided to the pilgrim places viz. Malai Madheswara Temple, Lord Easwaran Temples at Tharamangalam, Tiruchengode, Belur and Aragalur, Lord Murugan Temples at Kalipatty, Kabilar Malai and Lord Anjaneyar Temple at Namakkal.

8.5 Tamil Nadu State Transport Corporation (Coimbatore) Limited, Coimbatore :

The Corporation is headed by the Managing Director with headquarters at Coimbatore and regional offices of this Corporation functioning at Coimbatore, Erode, Tiruppur and Ooty for monitoring operations. The Corporation operates various types of services viz., Town, Mofussil and Ghat Services.

- The Tamil Nadu State Transport Corporation, Coimbatore has 44 depots with a fleet strength of 3,228 and operates

2,911 scheduled services. The total staff strength is 18,948. The Corporation operates Ordinary and Express Bus services.

- New depots have been inaugurated at Annur, Kodumudi and Ondipudur.
- This Corporation has a bus body building units at Pollachi, Dharapuram, Udumalpet and Pallipalayam.
- An additional bus body building unit at Pollachi is now operational.
- Bus stands at Valparai, Maruthamalai, Ooty and Gudalur have been constructed.
- In the past five years, 904 new buses, 62 Ghat service buses and 206 new routes have been inaugurated.

- 2,653 employees have registered their names to donate blood under the “Voluntary Blood Donation Scheme”.

Other facilities provided for the benefit of the passengers:

- Buses are operated to pilgrim and tourist centres such as Bannari, Karamadai, Poondi, Palani, Valparai, Mettupalayam, Coonoor and Ooty.
- Separate rooms for lactating mothers have been set up at 4 Bus terminals of Tamil Nadu State Transport Corporation Limited, Coimbatore.

8.6 Tamil Nadu State Transport Corporation (Kumbakonam) Limited, Kumbakonam:

The Corporation is headed by the Managing Director with headquarter’s at Kumbakonam. The regional offices of this Corporation are functioning at Kumbakonam, Trichy, Karaikudi,

Pudukottai, Nagapattinam and Karur for monitoring the operation of services. The Corporation operates Town and Mofussil services.

- The Tamil Nadu State Transport Corporation, Kumbakonam has 60 depots with the fleet strength of 3832 and operating 3831 scheduled services in 3667 routes. The total staff strength is 23,527. The corporation operates Ordinary, Express and Vestibule buses.
- The construction work of new depots is under progress at Thirumayam, Edamalaipattipudur and Manachanallur. Lands were alienated at Viralimalai, Palayam, Keeranur.
- Land has been identified and permission has been obtained for construction of

additional depot at Karur and new depot at Sayalkudi.

- During the year 2016-2017 the Corporation has introduced 76 new buses as replacement to old buses.
- GPS Compatible GPRS based Electronic Ticketing Machines is being implemented in all bus services from all depots of this Corporation.
- This Corporation has a Body building Unit at Poraiyar, Karur (Manmangalam), Karaikudi and Pudukottai with Re-conditioning Unit and Re-conditioning Tyre plant at Kumbakonam, Trichy, Devakottai and Pudukottai.
- The Association of State Road Transport Undertakings (ASRTU) has presented a Winner-up award to this Corporation for Highest KMPL in fuel efficiency and Runner

up award for Highest Performance in Vehicle Productivity for Mofussil Services for the year 2015-2016.

- New Training Centres are to be setup in Nagapattinam, Thiruvarur, Karur, Ariyalur, Perambalur and Ramnathapuram under the scheme of skill development and the existing training facilities at Kumbakonam, Trichy, Karaikudi and Pudukottai are to be augmented from the funds allotted by Ministry of Road Transport and Highways (MoRTH) to this Corporation.
- Training is imparted in the training centre of this Corporation to unemployed youth from Skill Development Corporation through Institute of Road Transport and also to Heavy Commercial Vehicle drivers of this Corporation.

Special facilities for pilgrims / tourists:

- This Corporation is operating buses to important pilgrim and tourist centres such as Nagore, Vellankanni, Thirunallar, Swamimalai, Thanjavur, Srirangam and Rameswaram.

8.7 Tamil Nadu State Transport Corporation (Madurai) Limited, Madurai:

The Corporation is headed by the Managing Director with headquarters at Madurai and the Regional Offices of this Corporation are functioning at Madurai, Dindigul and Virudhunagar for monitoring the operation of services viz., Town, Mofussil and Ghat Services.

- The total number of depots is 39, the fleet strength of the Corporation is 2593 and it operates 2298 scheduled services. The total staff strength is 15089. The various

types of services operated are Ordinary and Express buses.

- This Corporation has a body building unit at Madurai, Batlagundu and Virudhunagar.
- For the past six years, the **925** new buses and **91** new routes have been inaugurated.

Additional facilities for the benefit of the passengers:

- This Corporation provides monthly season tickets both in City and Mofussil services and one day ticket in city buses under " As you like Travel scheme ".
- This Corporation also operates 45 night city services.
- During festivals, the Corporation operates Special services to (i) Veerapandi

- (ii) Irukkankudi (iii) Velankanni and
(iv) Palani.

8.8 Tamil Nadu State Transport Corporation (Tirunelveli) Limited Tirunelveli:

The Corporation is headed by a Managing Director. It has its headquarters in Tirunelveli. Regional Offices of this Corporation are functioning at Tirunelveli, Nagercoil and Thoothukudi for monitoring the operation of services and the Corporation also operates Town and Mofussil Services.

- There are 30 depots. The fleet strength of the Corporation is 1,897 and it operates 1,801 scheduled services. The total staff strength is 12,478. The various types of services are operated by this Corporation viz., Ordinary, Express, Super Deluxe and Ultra Deluxe buses. This corporation has

body building units at Tirunelveli and Nagercoil.

- A new depot at Cheranmadevi was inaugurated and one depot at Sathankulam was inaugurated. In Alankulam, action is being taken for identification of land for a depot.
- The new building for corporate office at Tirunelveli at a cost of Rs.1.00 Crore was inaugurated.
- 585 new buses and 66 new routes have been inaugurated during the period from 16.05.2011 to 31.03.2017.
- Master Health check up was done to the employees of this Corporation and 4712 employees have benefited.
- 5976 persons have donated blood in blood donation camps.

Extended facilities for the benefit of the passengers:

- This Corporation is operating buses to important pilgrim and tourist centres such as Tiruchendur, Sankarankoil, Srivilliputhur, Uvari, Kanniyakumari and Courtallam.
- Amma drinking Water scheme, sales booths were opened in 22 bus stands at Tirunelveli, Thoothukudi and Kanniyakumari districts through which the public have benefited.
- A separate room for Lactating Mothers have been set up at Kanyakumari bus stand of TNSTC, Tirunelveli, which is being utilised.
- Two night services in Tirunelveli city and one night service in Nagercoil Town are being operated daily.

CHAPTER-9

Tamil Nadu Transport Development Finance Corporation Limited, Chennai.

The Tamil Nadu Transport Development Finance Corporation (TDFC) Ltd., was started on 25.03.1975 with the objective of mopping up funds from the general public for the Capital and Working Capital requirement of the STUs by way of mobilising deposits without depending upon the budgetary support from the Government. Tamil Nadu Transport Development Finance Corporation Ltd., has been registered as a Non-banking Finance Company with the Reserve Bank of India.

9.1 Deposits:

Tamil Nadu Transport Development Finance Corporation Ltd., as a Government owned Non-Banking Financial Company (NBFC) enjoys the public confidence and trust as one of

their investment avenues. The total deposit amount is Rs.3219.05 crores as on 31.03.2017.

9.2 Interest rates on deposits:

The interests offered on deposits are revised based on market conditions as well as depending upon demand and repayment position of the STUs.

Tamil Nadu Transport Development Finance Corporation Ltd., has increased the interest rates on par with the rates of other Government financial institutions and latest revision has been given effect from 16.12.2016. The present rate of interest on deposits is as follows.

Period	Interest rate on deposits (Interest compounded monthly) From 16.12.2016	
	Public	Senior citizen
12 months	7.75%	8.00%
24 months	8.00%	8.25%
36 to 60 months	8.50%	9.00%

9.3 Loans:

During the year 2016-2017, financial assistance has been extended to the STUs as indicated below:-

(Rs. in Crores)

Sl. No.	Loan	Amount
1.	Hire Purchase Loan	46.86
2.	Short term loan for Half yearly Motor Vehicle Tax payment	86.17
3.	Term Loan for Working capital	682.41
	Total	815.44

TDFC Ltd., has helped the State Transport Undertakings through Short Term loans so as to avail the benefit of 4% rebate by making the half yearly Motor Vehicle Tax payment, which has enabled the State Transport Undertakings to reduce their expenditure.

TDFC Ltd., has extended financial assistance to the State Transport Undertakings as detailed below:-

(Rs. in Crores)

Year	Financial Assistance
2011-2012	719.06
2012-2013	1306.23
2013-2014	1652.48
2014-2015	2151.24
2015-2016	2776.33
2016-2017	3578.35
2017-2018	4255.20

This includes the financial assistance towards the procurement of 47766 new buses since its inception from 1975.

9.4 Plans for 2017-2018

TDFC Ltd., has revised the lending rates in respect of fresh loans to all STUs with effect from 01.04.2017 to match the average lending rate with deposit rate as follows:-

Loan	Interest Rate
HP Loan	10.00%
Term Loan	10.50%
ST Loan (Salary)	10.75%

CHAPTER-10

Pallavan Transport Consultancy Services Limited, Chennai

Pallavan Transport Consultancy Services Ltd., (PTCS) was established in April 1984 as a wholly owned company of Government of Tamil Nadu with an Authorized Share Capital of Rs.50 lakh and with a paid up Share Capital of Rs.10 lakhs. Its core objective is to provide consultancy services in the area of Road Transport.

PTCS offers consultancy assignments in the domain area of Transport Systems and this organization has experienced personnel in the respective fields. Besides, experts from various specializations are also drawn externally and engaged depending upon the requirement and need for assignment.

10.1 Financial Performance:

The Financial results of the company for the past five years are given below.

(Rupees in lakhs)

Details	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
Total income	146.74	157.77	57.17	53.68	65.73	67.30
Total Expenditure	143.77	154.40	99.11	81.83	79.36	82.22
Profit/Loss	2.97	3.37	- 41.94	- 28.16	- 13.63	- 14.92

10.2 Future Prospects:

PTCS has submitted proposals to take up the project of online monitoring of the activities of Government Museum, Chennai, Intelligent Transportation System for MTC under Tamil Nadu Investment Promotional Programme (TNIPP) – Phase II. Online Bus Pass system in STUs through Tamil Nadu e-Governance Agency (TN ega), Co-ordination for Smart City Projects and e-Auction for disposal of old Government vehicles of Motor Vehicle Maintenance Department. Proposals were also submitted for

digitization of old records in Automobile Association of Southern India [AASI].

10.3 System, Traffic and Transportation Wing:

Pallavan Transport Consultancy Services Limited (PTCS) is currently associated with external consultant in the preparation of Detailed Project Report [DPR] for Chennai – Bus Rapid Transit Systems [BRTS], implementation of online Electronic Ticketing Machines and related infrastructure in State Transport Undertakings and Smart Travel Card Project.

Pallavan Transport Consultancy Services Limited has also involved in various consultancy projects like post implementation and it continuously monitors the functioning of Online Ticket Reservation System for State Express Transport Corporation / Tamil Nadu State Transport Corporations, operating Help Desk at Chennai Mofussil Bus Terminus, Koyambedu. It has also developed website for Tamil Nadu Motor

Vehicles Maintenance Department and a new websites for State Transport Undertakings is under construction. PTCS is also involved in selecting e-Auction service provider for disposal of old buses, tyres, batteries and scraps in State Transport Undertakings.

10.4 Future Plans:

Pallavan Transport Consultancy Services Limited has submitted proposals to take up the project of e-Auction for disposal of old Government vehicles of Motor Vehicle Maintenance Department, Vehicle Tracking System with CCTV in MTC Buses and Quick Response [QR Code] system for monitoring the arrival / departure of SETC Buses. Proposals were also submitted for digitization of old records for District Collectorates and Government Departments and Annual Maintenance of Computers in Saraswathi Mahal Library, Thanjavur, Tamil Virtual Academy, Chennai and Tamil Nadu Archives and Historical Research Department.

CHAPTER-11

Institute of Road Transport, Chennai

The Institute of Road Transport (IRT) was started as a society registered under the Societies Registration Act, 1860 in the year 1976 with the main objective of applied research on issues pertaining to traffic, transportation, road safety and bus system management, perform quality monitoring by conducting tests on random samples of spare parts procured by the State Transport Undertakings (STUs) in Tamil Nadu, and imparting refresher training to the employees of STUs and general public.

The Institute conducts skill up-gradation training programme for the officers and employees of Transport Corporations both in IRT and at STUs by preparing an Annual Calendar. The Institute has so far conducted 1,820

such training programmes in which 38,877 employees have benefited upto 2016-2017.

The Institute has a **Material Testing Laboratory**, which can conduct tests for 66 automobile components. The Laboratory has so far tested 5,875 samples.

The Institute of Road Transport is the central purchase organisation. In order to decide on the price and terms and conditions of supply towards the procurement of major items such as Chassis, Tyres, Fully Built Buses, Bus Body Construction, Printing and Supply of Tickets, Re-treading Materials, Mini Buses and Lubricants for all STUs, the Government have designated the IRT as the Nodal Agency.

The research wing of IRT has published as many as 526 Research Reports and 30 Consultancy Reports. The research wing has also published Accident Investigation Manual,

which serves as a Guide to STUs while investigating the accidents in which STU vehicles are involved. The Institute has published a Technical Manual for the benefit of STUs.

In the year 1984, Institute of Road and Transport Technology was started at Chithode in Erode District with a special emphasis on Automobile Research under the aegis of IRT for imparting Under Graduate Engineering Degree Courses to the children of employees of STUs. The total annual intake of students for Under Graduate and Post Graduate Degree Courses is 528 Students. So far 8,524 B.E. Graduates, 170 M.E. (Structural), 18 M.E., (Thermal), 18 ME (CSE) and 913 M.C.A., Post Graduates have completed these courses from this Engineering College. This Engineering College is rated as one of the finest Engineering Colleges in the State.

IRT-Perundurai Medical College with Hospital facilities was started in the year 1986 at Perundurai for the benefit of the children of the employees of STUs with an annual intake of 60 students for MBBS Course. This Medical College has produced 1,484 Doctors since inception.

The IRT – School of Nursing was started for imparting Diploma in Nursing Course in the academic year 2008-2009 at IRT – Perundurai Medical College premises with an annual intake of 20 Students.

The Institute of Road Transport also started three Polytechnic Colleges at Chromepet (Chennai), Bargur and Tirunelveli in the year 1992-1993. At present, Diploma in Engineering Courses are offered in three branches with a total annual intake of 700 Students. As many as 8,892 students have completed Diploma in Engineering Course in these three Polytechnic institutions upto 2016.

The total number of seats available and the split up of the seats filled are as detailed below:-

S. No.	Description	Total No. of Seats	No. of Seats filled under	
			Govt. Quota	Management Quota
1.	Perundurai Medical College MBBS Course	60	39 (65%)	21 (35%)
2.	IRT-School of Nursing - Diploma in Nursing	20	-	20
3.	Engineering College			
a)	Bachelor Degree Courses	420	273(65%)	147 (35%)
b)	Master Degree – M.E. (Structural)	24	17(72%)	7 (28%)
c)	Master Degree – M.E. (CSE)	24	17(72%)	7(28%)
d)	Master of Computer Applications	60	30 (50%)	30 (50%)
4.	Polytechnic Colleges – Diploma in Engineering	700	350 (50%)	350 (50%)

CHAPTER-12

RESEARCH STUDY OF IRT

A Research study about demand patterns and route utilisation of MTC buses is being undertaken in co-ordination with IIT(M). The second meeting about the study with officials of IRT, MTC (Chennai) Ltd, IIT(M) faculties and Research scholars was conducted at MTC (Chennai) Ltd. The study is under progress.

12.1 MATERIAL TESTING AND QUALITY MONITORING:

The Material Testing Laboratory has facilities to test 54 different automobile components as per Association of State Road Transport Undertakings (ASRTU) and BIS Specifications. The Laboratory has tested 5,845 samples upto 2015-2016. 54 automobile sample components were received from the STUs out of which 30 samples were tested and reports were sent to the STUs during the year 2016-2017

as per Association of State Road Transport Undertakings (ASRTU) specifications.

12.2 EXAMINATION FOR SUPERVISORY AND NON-SUPERVISORY STAFF:

The Executive and Non-Executive Departmental Examination which is mandatory for career advancement for Supervisory / Non-Supervisory staff of STUs was conducted during May for the year 2015-2016. The number of employees appeared and passed is given below:-

Sl. No	Description	Number of Candidates		Percentage
		Appeared	Passed	
1.	Executive Examination	294	261	88.77%
2.	Non-Executive Examination	230	218	94.78%
	Total	524	479	91.41%

CHAPTER-13

**TRAINING PROGRAMMES FOR
SUPERVISORY STAFF AND
EXECUTIVES IN IRT**

The training wing organizes various training programmes at the **Institute of Road Transport** and in-house programmes at the headquarters / regions of State Transport Undertakings (STUs). The Institute of Road Transport prepares an Annual Calendar of training programme at the beginning of every financial year and the programmes are held accordingly. The details of programmes

conducted and the number of participants attended are as follows:

Sl. No	Description	Number of Programmes Conducted			Number of Participants Benefited		
		Upto 2015 - 2016	During 2016 - 2017	Total	Upto 2015 - 2016	During 2016- 2017	Total
1.	In-house training at STUs	412	0	412	12,498	0	12,498
2.	Training programme at IRT-Taramani	883	40	923	15,836	749	16,585
3.	Meet, Workshop & other programmes	481	4	485	9,634	158	9,792
Total		1,776	44	1,820	37,968	907	38,875

As on date, 40 employees are working in IRT, Taramani, Chennai including 9 Officers and staff on deputation basis from STUs.

13.1 HEAVY VEHICLE DRIVER TRAINING CENTRE AT GUMMIDIPOONDI:

The Institute is imparting 12 weeks Heavy Vehicles Driver Training (HVDT) Course in a systematic manner on scientific lines for those with good eyesight and without any physical disability and with the required qualifications.

The Driver Training Wing, Gummidipoondi has capacity to impart HVDT Course to 600 drivers per annum in four batches at the rate of 150 candidates per batch.

The HVDT Course Trainees are undergoing Practical Training in buses, Theory Classes in the Class room and Vehicle Mechanism classes in the Workshop / Laboratory every day during their training period of 12 weeks. The trainees are evaluated at the end of the training course in **theory subjects** such as Driving Theory, Vehicle Mechanism, Traffic Education, Conductor Education, Public Relations and **practical test for driving**. After passing these tests, the candidates are directed to appear for Motor Vehicle Inspector Test at Motor Vehicle Inspector Office at Redhills for obtaining Heavy Vehicle Driving Licence. Finally, the Proficiency Test Certificates are awarded to those

candidates who successfully complete all the tests.

In addition to the 12 weeks HVDT Course, the Institute is also imparting Refresher and Orientation Training Courses for the drivers who are in service in Tamil Nadu State Transport Corporations, Government, Public and Private Sector Organisations for durations of 1 month, 15 days, 5 days, 3 days, 2 days, and 1 day in defensive driving techniques for drivers involved in accidents. Special training is given to the drivers carrying dangerous / hazardous goods, on rules of road regulations, fuel conservation, heavy vehicle driving licence renewal course and safety clinic programmes for accident prone drivers in order to reduce the accident rates and to improve road safety.

At present, the Heavy Vehicle Driver Training (HVDT) Course is being conducted at IRT, Driver Training Wing-Gummidipoondi, IRT Driver

Training Centre-Trichy and 15 other places namely SETC-Trichy, TNSTC Ltd.,-Madurai, Nagercoil, Dindigul, Tirunelveli, Virudhu Nagar, Salem, Dharmapuri, Erode, Pollachi, Villupuram, Vellore, Kumbakonam, Karaikudi and Pudukottai in association with the respective Transport Corporations.

The details of driving training / refresher training given to the Heavy Vehicle Drivers are given below:-

Sl. No.	Description	Number of Candidates Trained		
		Upto 2015-16	During 2016-17	Total
HVDT Course				
1	Gummidipoondi	21,452	433	21,885
2	Trichy	2,167	72	2,239
3	Other TNSTC HVDT Centres	31,924	1,071	32,995
TOTAL		55,543	1,576	57,119
Refresher Training Programmes				
4	Gummidipoondi Centre	54,355	2,994	57,349

13.2 LIGHT MOTOR VEHICLE (LMV) DRIVER TRAINING SCHOOLS

Three Driver Training Schools were started during the year 1997-1998 one at Chennai, another at Tiruchirappalli and Erode for imparting Light Motor Vehicle (LMV) Training. The details of number of candidates trained in Light Motor Vehicle (LMV) Driving are given below:-

Sl. No.	Description	Number of Candidates Trained		
		Upto 2015-16	During 2016-17	Total
A) Four Weeks Training Course:				
1.	Taramani, Chennai	1,515	102	1,617
2.	Trichy	740	11	751
3.	Erode	-	53	53
TOTAL		2,255	166	2,421
B) Six Weeks Training Course:				
1.	Taramani, Chennai	277	122	399
2.	Trichy Centre	-	134	134
3.	Erode	-	123	123
TOTAL		277	379	656
GRAND TOTAL		2,532	545	3077

The institute is conducting **one day training courses** to the transport vehicle drivers before renewal of their licence as per the orders of the Government in G.O.(Ms.) No. 697 Home (Transport-5) Department dated 05.08.2010. The details of number of candidates trained are given below:-

Sl. No.	Description	Number of Candidates Trained		
		Upto 2015-16	During 2016-17	Total
1.	Taramani, Chennai	5843	282	6125
2.	Gummidipoondi	3201	54	3255
3.	Trichy	23796	117	23913
TOTAL		32840	453	33293

As many as 2,429 persons have utilized the driving range at Taramani for improving their driving skills.

As on date, 23 employees are working in Driver Training Wing, Gummidipoondi including 11 employees on deputation from STUs. Further, 2 employees are working on "loan basis" from TNSTC (Kumbakonam) Ltd, Trichy Region at IRT – Trichy Centre.

CHAPTER-14

EDUCATIONAL INSTITUTIONS OF IRT

14.1 INSTITUTE OF ROAD AND TRANSPORT TECHNOLOGY, ERODE:

The Institute of Road and Transport Technology, Erode was started in the year 1984 under the aegis of the Institute of Road Transport, and it is functioning for the past 33 years. The courses presently offered and student strength is given below:-

Course	Year of Commence-ment	Sanctioned Strength Per annum	Present first year Strength	Total Strength from First year to Final year
(A) B.E./B.Tech. Programmes:				
Automobile Engineering	1984	60	50	257
Mechanical Engineering	1984	60	59	270
Civil Engineering	1984	60	52	255
Computer Science & Informatics	1984	60	55	243
Electronics & Communication Engineering.	1992	60	53	253
Electrical & Electronics Engineering.	1992	60	49	249
Information Technology	2002	60	53	223

Course	Year of Commencement	Sanctioned Strength Per annum	Present first year Strength	Total Strength from First year to Final year
(B) P.G. Programmes				
Master of Computer Applications	1996-97	60	0	39
M.E. (Structural)	2003-04	24	20	44
M.E.(CSE)	2014-15	24	5	11
TOTAL		528	396	1844

The present staff strength is 170 out of which 85 are teaching and 85 are non-teaching staff. Among the teaching staff, 37 staff members are with Ph.D. degrees.

At present, 8 hostel blocks are available in which 1,156 students are being accommodated. The total number of books available in the library is 44,277 and 3,355 books are available in the book bank. The total number of journals subscribed is 510 out of which 74 are National Journals.

This Engineering College has so far produced 8,524 BE Graduates, 913 MCA holders,

170 ME (Structural), 18 M.E. (Thermal) and 18 ME (CSE) Post Graduates.

14.2 IRT-PERUNDURAI MEDICAL COLLEGE AND HOSPITAL, PERUNDURAI:

The IRT-Perundurai Medical College was set up as per the scheme formulated in 1986, and started functioning at its own premises at Perundurai, Erode District, from the academic year 1992-1993. The annual intake of students for MBBS Course is 60. At present, totally 302 students are undergoing the MBBS Course and 58 students are undergoing Compulsory Rotatory Residential Internship (C.R.R.I.) i.e., House Surgeon Training in this College.

Separate hostel facilities are available to accommodate Men and Women students. At present 318 students are accommodated in these hostels. In the library, there are 9767 books and the total number of journals subscribed is 101.

On an average 674 Outpatients are treated every day at Perundurai Medical College and Hospital (PMCH) and 41 Outpatients are treated every day at Ramalingam Tuberculosis Sanatorium (RTS). There are 300 beds in Perundurai Medical College and Hospital (PMCH) and 120 beds in Ramalingam Tuberculosis Sanatorium (RTS). The average bed occupancy ratio during the year is 96.88% in PMCH and 45.2% in Ramalingam Tuberculosis Sanatorium.

359 staff are working in Perundurai Medical College and Hospital (PMCH), which comprises of 129 Doctors, 119 Para Medical and 111 Non Medical and Ministerial staff. This Medical College has so far produced 1,484 Doctors.

14.3 IRT-SCHOOL OF NURSING, PERUNDURAI:

Further IRT – School of Nursing was started for imparting Diploma in Nursing Course in the

academic year 2008-2009 at IRT – Perundurai Medical College premises with an annual intake of 20 Students. 20 of the seats till now have been filled among the wards of employees of STUs. Totally 46 students are undergoing diploma in nursing and 13 students are undergoing training.

14.4 I.R.T. POLYTECHNIC COLLEGES:

The Institute of Road Transport is running three Polytechnic Institutions at Chrompet (Chennai) Bargur, (Krishnagiri) and Tirunelveli from the academic year 1992-1993 and a new Diploma in Mechanical Engineering Course has been introduced in three IRT Polytechnic Colleges with intake of 60 seats for each Polytechnic College in the academic year 2013-2014. The courses presently offered and the number of students admitted

every year and the total student strength are given hereunder:

Course	Year of Commencement	Sanctioned Strength Per annum	Present first year Strength	Total Strength from First year to Final year
(1). IRT POLYTECHNIC COLLEGE, CHROME PET				
Electrical and Electronics Engineering (EEE)	1992	60	58	193
Electronics and Communication Engineering (ECE)	1992	60	46	158
Computer Technology (CT)	1992	60	35	109
Mechanical Engineering	2013	60	51	192
Total (A)		240	190	652
(2). IRT POLYTECHNIC COLLEGE, BARGUR				
Electrical and Electronics Engineering (EEE)	1992	60	47	178
Electronics and Communication Engineering (ECE)	1992	60	36	125
Computer Technology (CT)	1992	60	34	121
Mechanical Engineering	2013	60	58	197
Total (B)		240	175	621
(3). IRT POLYTECHNIC COLLEGE, TIRUNELVELI				
Electrical and Electronics Engineering (EEE)	1992	60	57	191
Electronics and Communication Engineering (ECE)	1992	60	46	148
Computer Technology (CT)	1992	40	23	87
Mechanical Engineering	2013	60	54	197
Total (C)		220	180	623
GRAND TOTAL (A)+(B)+(C)		700	545	1896

8,892 students have completed Diploma Courses in all the three Polytechnic Institutions up to 2017 (Chrompet-3,128, Bargur-2,953, and Tirunelveli-2,811).

The total staff and students strength of IRT and its units as on date are detailed below:-

S. No.	Description	Staff Strength	Student Strength
1.	IRT, Taramani	40	-
2.	Driver Training Wing, Gummidipoondi	23	-
3.	Driver Training Wing, Trichy	2	-
4.	Institute of Road & Transport Technology, Erode	170	1835
5.	IRT - Perundurai Medical College, Perundurai	353	360
6.	IRT - School of Nursing, Perundurai	06	59
7.	IRT Polytechnic College, Chromepet	31	652
8.	IRT Polytechnic College, Bargur	28	621
9.	IRT Polytechnic College, Tirunelveli	37	623
Total		690	4,150

CHAPTER-15

MOTOR VEHICLES MAINTENANCE DEPARTMENT, CHENNAI

The Motor Vehicles Maintenance Department, comprising of 20 Government Automobile Workshops situated in various District Head Quarters all over the State including three Regional Deputy Directorates, which is meant for the maintenance of Government Department Vehicles, under the control of the Director, as the Head of Department.

In this Department, the Government Central Automobile Workshop at Chennai is under the control of General Manager. Three Workshops at Trichy, Madurai and Salem are functioning under the control of Regional Deputy Directors and other unit Offices at Coimbatore, Vellore, Dharmapuri, Nagercoil, Tuticorin,

Villupuram, Cuddalore, Erode, Thanjavur, Ooty, Ramanathapuram, Kanchipuram, Thirunelveli, Virudhunagar, Sivagangai, and Dindigul are functioning for the maintenance of Government Department Vehicles, under the control of respective Automobile Engineers.

This Department is looking after the repairs and maintenance needs of nearly 20,361 Government Departmental vehicles, plying throughout the state. A Secretariat Service Station is functioning near Secretariat, Chennai-9 to carry out minor and petty repairs to VIP vehicles and for the vehicles of Secretaries to Government. There are 10 Fuel disbursing bunks functioning under the control of this Department.

Efforts are on to start new **"AMMA" Driver Training Centre** in Government Automobile Workshops at Salem, Trichy and Madurai to

impart refresher training to the drivers working in various Government Departments and also for newly recruited drivers.

High-tech vehicles repair training have been given to 14 technical workers during the year 2016-2017. Total number of vehicles for which repairs carried out by this Department during the year 2016-2017 is 26,913.

Number of vehicles condemned in different categories during the year 2016-2017 are as follows:

Year	H.M.V.	Car	Jeep	Van	Motor Cycle	Total
2016-17	119	138	453	68	704	1482

CHAPTER-16

CHENNAI UNIFIED METROPOLITAN TRANSPORT AUTHORITY (CUMTA)

Chennai Unified Metropolitan Transport Authority (CUMTA) has been established for monitoring the various aspects of integrated Metropolitan Transport for Chennai City. The main aim of CUMTA is to provide better co-ordination among the various mass transport agencies in Chennai, such as Mass Rapid Transit System, proposed Monorail Project, Chennai Metro Rail, Metropolitan Transport Corporation and the city agencies such as Corporation of Chennai, Chennai Traffic Police and Chennai Metropolitan Development Authority.

16.1 Mono Rail Project

The share of public transport in the urban transport system of Chennai is currently 27% which is eventually proposed to be increased to

46% by 2026. The Government of Tamil Nadu have decided to implement the Monorail Project in Chennai to integrate with the existing and upcoming transport systems. The Monorail Project in Chennai is initially planned for a length of approximately 43.48 Kms in two Projects.

Project – 1. Poonamallee to Kathipara with a link from Porur to Vadapalani (20.68 kms.)

- This project is to be implemented under Public Private Partnership on Design, Build, Finance, Operate and Transfer (DBFOT) basis with an estimated cost of Rs.3,267 Crore.
- The fresh tender process is to be initiated.

Project–2. Vandalur to Velachery (22.80 Kms.)

This project is to be taken up under multilateral funding with an estimated cost of Rs.3,135.63 Crore.

CHAPTER-17

Inter-departmental Co-ordination

The Transport Department co-ordinates with various Central Government agencies namely, Southern Railway, Civil Aviation department, Postal and Telecommunication departments to implement their projects relating to transportation sector within the State of Tamil Nadu.

- Proposals given by these departments for land acquisition are taken up with the District Collectors / Commissioner of Land Administration and other related agencies.
- Lands are acquired and handed over to them for implementation of their projects.

17.1 Modernisation and Expansion of Airports:

The Airports Authority of India has undertaken the expansion and modernisation of

Chennai Airport including other non-metro Airports viz., Madurai, Trichy, Coimbatore, Thoothukudi and Salem. The Government is taking necessary action to provide the required lands for the above projects on the request of Airports Authority of India on free of cost and free from all encumbrance.

The Government have signed Memorandum of Understanding on 08.06.2017 for implementation of Regional Air Connectivity Scheme (RCS)- "UDAN" with the Ministry of Civil Aviation for providing connectivity to un-served and under-served Airports of the State through revival of existing Air-strips and Airports under National Civil Aviation Policy, 2016.

13 Airports have been identified in Tamil Nadu for implementation of Regional Air Connectivity Scheme - (UDAN) in the State.

Out of 13 Airports, the following Airports have already found promoters in the first Phase.

(1) Neyveli (2) Salem (3) Hosur

Efforts are on to encourage promoters to invest in the other ten airports. Each of the airport will be provided conditional subsidy to ensure that atleast 50% of seat are sold at Rs.2,500/- and thus help promote the airport in the initial years.

17.2 Greenfield Airport:

The Government have announced formation of Greenfield Airport near Chennai under Vision 2023. This will be done either as in a Public Private Partnership or as in a fully funded manner.

17.3 Railway Project:

Railway services in Tamil Nadu is maintained by the Southern Railway.

The Divisions of Chennai, Trichy, Madurai and Salem and some part of the Palghat division covers the State. The State has 3,450 kms of Broad Gauge.

Transport Department helps Southern Railways for Land Acquisition work to implement Doubling, Electrification and laying of new tracks for freight and high speed rail link. At present, new lines and various doubling projects are undertaken.

17.4 New Lines:

New lines have been introduced from Milavittan to Melmarudur which is a part of Madurai–Tuticorin via Aruppukkottai. This new line will provide vital connectivity to ports and upcoming power plants in the region.

17.5 Doubling:

Villupuram to Dindigul doubling with Electrification work is being done at present.

This is a prestigious project connecting North and South of Tamil Nadu. This project is of high strategic importance as it will cater the high demand of passenger traffic. Other project for doubling is being done in Omalur to Mettur Dam.

17.6 Broad Gauge:

Broad Gauge Railway project is undertaken in Chinnasalem to Kallakurichi to an extent of 48.01 hectare covering 11 villages in and around Villupuram District.

III. Conclusion:

The Vision for Tamil Nadu for 2023 is to become India's most prosperous and progressive State, free from poverty and where its people enjoy all the basic services of a modern society and live in harmonious engagement with the environment.

Transport Department is determined to provide smooth and efficient transport to all sections of society. It also ensures affordable bus services to all people. Students, Differently-abled Persons and senior citizens are thus being provided welfare programs and subsidies.

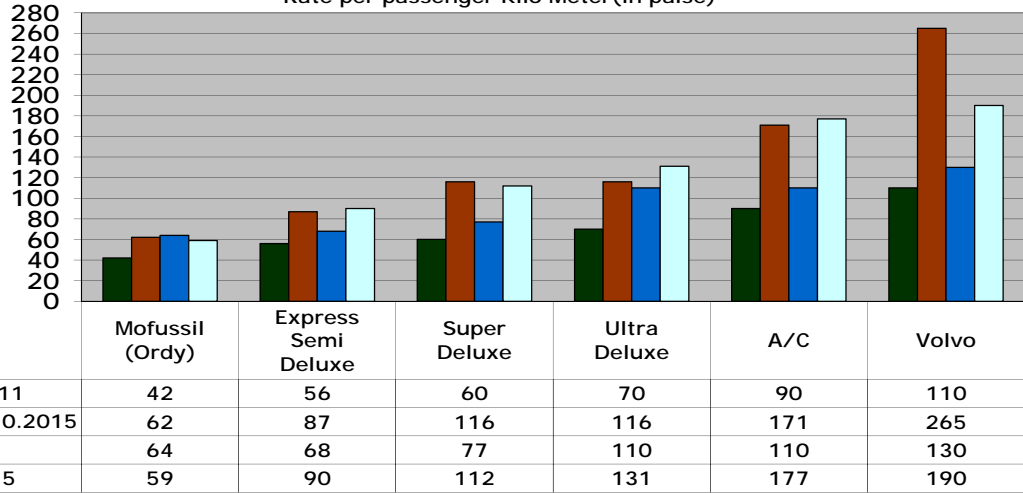
All efforts are being made continually to improve the quality of transportation to the people. The Government is committed to the mobility of the public in the most efficient possible manner.

M.R. VIJAYABHASKAR
Minister for Transport

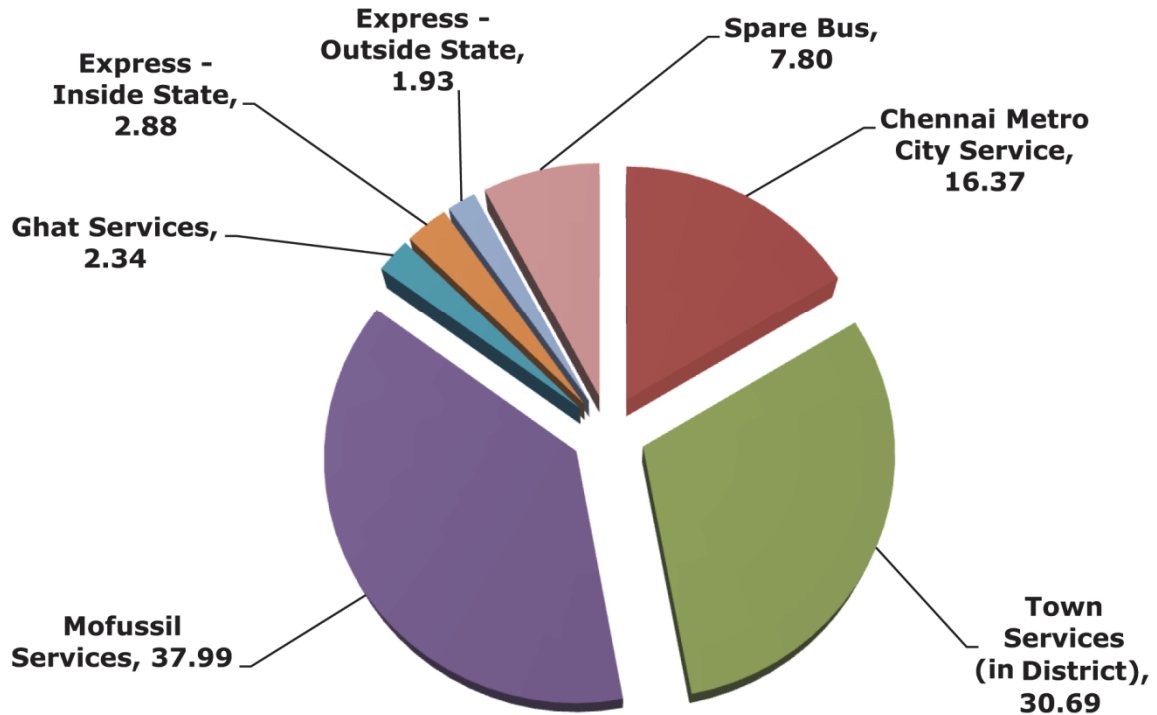
ANNEXURE**DEMAND No. 48****TRANSPORT DEPARTMENT****BUDGET ESTIMATE 2017-2018****(Rupees in thousands)**

Sl No.	Head of Department	Revenue	Capital	Loan	Total
1	Secretariat	1,404,09,07	350,00,04	375,00,09	2,129,09,20
2	Motor Vehicles Maintenance Department	62,46,83	1	-	62,46,84
Total		1,466,55,90	350,00,05	375,00,09	2,191,56,04

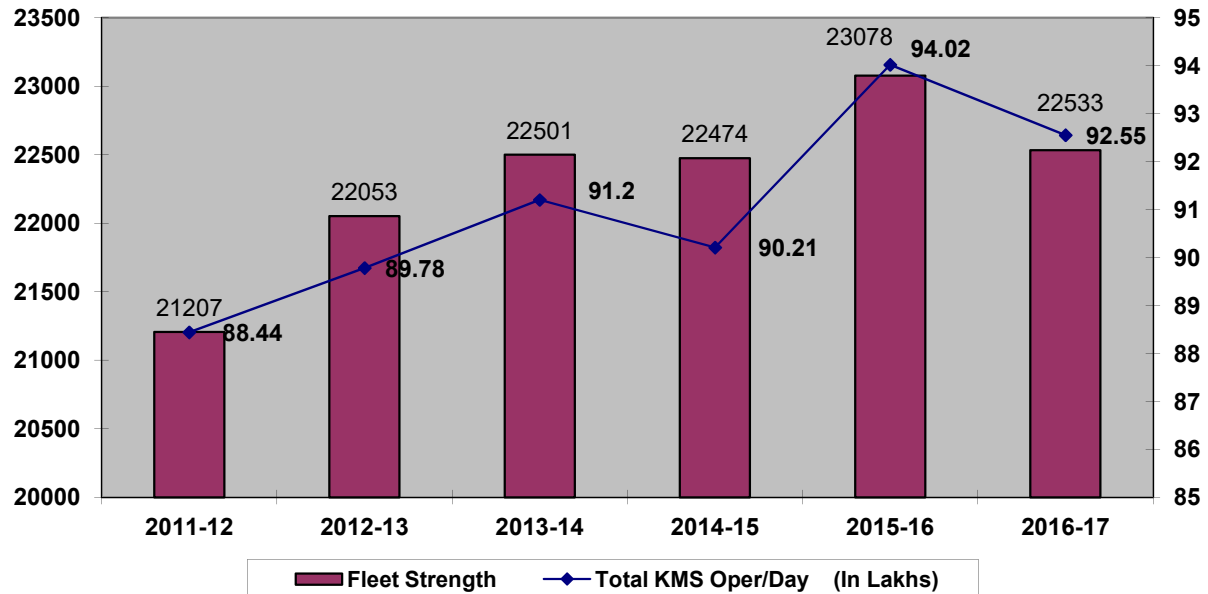
Appendix - 1
(1.2) Fare Comparison of STUs (Southern States)
Rate per passenger Kilo Meter (in paise)



Appendix - 2
(1.3) STU's - Type of Services as on 31.03.2017



Appendix - 3
(1.4) Performance Indicators from 2011-12 to 2016-17



Appendix - 4
(1.6) Revenue /Per day (Rs. in Crore)

