

General Manager's ANNUAL REPORT

2010—2011

SOUTHERN RAILWAY

Headquarters Office,
General Branch,
Chennai-600 003.

JUNE 2012

Jyaishta 1934

The Secretary (Stat.),
Railway Board,
New Delhi.

I forward herewith my report on the working of the Southern Railway System for the year ended
31st March 2011.

A. K. MITAL
General Manager

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GLOSSARY OF TERMS

Readers may find the following definitions of various terms helpful in reading the Annual Report :—

CAPITAL-AT-CHARGE

Includes capital outlay on worked lines.

ROUTE KILOMETRES

Distance of each gauge owned by a railway including its worked lines treated as single line open for passenger and goods traffic. Kilometrage of double, treble, quadrupli tracks, crossings at stations and sidings as also the track from the centre of terminal stations to the end of main line buffer stop are to be excluded.

GROSS EARNINGS

True earnings in an accounting period irrespective of whether amounts have been realised or net.

WORKING EXPENSES

True expenses in an accounting period irrespective of whether amounts have been disbursed or not. They comprise of Ordinary Working Expenses, Appropriation to Depreciation Reserve Fund and Pension Fund.

NET EARNINGS

Gross earnings minus working expenses.

OPERATING RATIO

The relation of working expenses to gross earnings expressed as a percentage .

PASSENGER KILOMETRES

The transportation of one passenger one kilometre.

TONNES ORIGINATING

Include tonnage of Railway stores and materials carried in material ballast train on open lines for Railway constructions, project authorities, stock owned or hired by them for Independent Railway Project work.

FRIEGHT TONNE KILOMETRES

The transportation of one tonne of freight one kilometre.

TRAIN KILOMETRES

The transportation of one train one kilometre.

NUMBER OF STAFF

Number of employees on roll on the last day of the year excluding casual labour.

NUMBER OF STATIONS

Exclude block huts, branch booking offices, out-agencies and halts.

SOUTHERN RAILWAY
HIGHLIGHTS OF OPERATIONS

Particulars	Units	2010-11	2009-10
Financial Position —			
Capital-at-Charge	Rs. in Crores	6807.94	5656.53
Capital Fund	Rs. in Crores	3438.76	3211.13
Gross Earnings	Rs. in Crores	4790.27	4456.90
Working expenses (excluding suspense)	Rs. in Crores	4820.47	4797.27
Net Earnings	Rs. in Crores	-1670.60	-1689.53
Operating Ratio	Percentage	135.55	137.47
Percentage of Net Earnings to Capital-at-charge and investment from Capital Fund.	Percentage	-16.30	-19.05
Passenger Statistics —			
No. of Passengers Originating	In Millions	734	690
No. of Passengers Carried	In Millions	788	738
Passenger Kilometres	In Millions	74664	70216
Earnings from Passenger Carried	Rs. In Crore	2317.69	2154.61
Average Earning per Passenger Kilometre	In Paise	31.04	30.69
Average length of Passenger journey	Kilometre	94.70	95.15
Freight Statistics —			
Freight Tonnes Originating	In Millions	35.11	35.73
Freight Tonnes Carried	In Millions	61.90	69.68
Freight Tonne Kilometres	Kilometre	15748	16644
Earnings from Goods Carried	Rs. in Crore	1869.51	1818.03
Average Earning per Freight Tonne Kilometre	Paise	118.72	109.23
Average Lead of Tonne of Goods (Revenue)	Kilometre	377	362
Train Statistics —			
Train Kilometres incl. Departmental Kilometres (in thousands)	Kilometre	67351	64900
Gross Earnings per Train Kilometre	Rs.	711.24	686.73
Working Expenses per Train Kilometre	Rs.	715.72	739.18
Net Earnings per Train Kilometre.. .. .	Rs.	24.80	-26.03
Staff —			
No. of Staff as on 31st March	Number	95741	99329
Cost of Staff	Rs. In Crores	5643.78	5283.43*
Station and Route Kilometrage —			
No. of Stations as on 31st March	Number	567	566
Route Kilometres as on 31st March	Kilometre	5102.12	5098.07

* Revised

GENERAL REVIEW

General Economic Condition of the Zone

The Jurisdiction of Southern Railway extends over the States of Tamil Nadu, Kerala, and Southern parts of Andhra Pradesh. The General economic condition of these States except Andhra Pradesh and Pondicherry in respect of Agriculture, Irrigation, Power, Industries, etc., are appended below :—

Tamil Nadu Industrial Development Corporation Limited

Sl. No.	Industrial Projects	Nos.	Enclosures
1.	No. of Projects completed and Commissioned during 2010-2011.	1	List enclosed as Annexure
2.	No. of Projects under implementation	34	List enclosed as Annexure
3.	Details of State Owned managed industries.	NIL	....

I. Projects completed during 2010-2011

1. Ascendas IT Park (Chennai) Limited, Chennai.

II. Projects under implementation

1. Shipyard-cum-Minor Port Complex in Kattupalli, Thiruvallur Dist.
2. TICEL Bio Park-II, Chennai
3. TICEL Bio Park Limited-Biotechnology Core Instrumentation Facility (BTCIF), Chennai.
4. TIDEL Park, Coimbatore Ltd., Coimbatore Dist.
5. Perambalur SEZ
6. Rakindo Kovai Township Private Ltd.-IT & ITES SEZ
7. Virudhunagar SEZ
8. Aerospace Park, Sriperambudur
9. Chennai Sport City on IT Corridor, Chengalpattu Taluk
10. Tamilnadu Trade Promotion Organization-Expansion in Chennai.
11. Corridor Development Plan for Chennai-Manali-Ennore region
12. Agri Export Zone (AEZ) for Cashew in Cuddalore Dist.
13. Bio I. T. Park, Chennai
14. Agri Export Zone (AEZ) for Flowers in Nilgris Dist.
15. Integrated Cold Chain Facility, Thiruvallur Dist.
16. Integrated Grape Processing Unit, Dindigul Dist.
17. Cold Storage for Eggs at Namakkal
18. Ennore SEZ in Thiruvallur District
19. Nanguneri SEZ in Tirunelveli District
20. Krishnagiri SEZ
21. SEZ for Food Processing Sector in Thoothukudi Dist.
22. Free Trade Warehousing Zone in Thiruvallur Dist.
23. Jayamkondam Lignite Power Project (JLPP) in Ariyalur Dist.
24. IT Corridor Project
25. Financial City & Media Entertainment Park, Chennai
26. Expansion of Chennai Trade Centre
27. LNG Import Terminal Project (near Ennore Port) in Kattupalli, Thiruvallur Dist.
28. Medical Village Project, Thiruvallur Dist.
29. ETA Township, Sriperumbadur.
30. TRIL Infopark Limited.
31. Natural Gas Transmission Pipeline Project.
32. Integrated Food Irradiation Facility & Services in Chennai
33. Integrated Textile Park in Coimbatore Dist.
34. Development of Marina in Tamilnadu Coast.

ANNEXURE

(E) Motor Vehicles

I	No. of Routes operated during the year 2010-2011 and 2009-2010	2009-2010	2010-2011
		19307*	19761*
1 (i)	(i) No. of vehicles owned total route km. No. of vehicles on road per day (buses, Lorries and other vehicles)	Total route km. No. of vehicles on road per day details not available.	
II (ii)	Total No. of passengers carried (In lakhs), average distance a passenger was carried in kms.)	Data not available	

* with spare bus

VEHICULAR POSITION IN TAMIL NADU AS ON 01-4-2011

TRANSPORT		NON-TRANSPORT	
Stage Carriages		Motor Cycle	5997158
Public (Stu.)	19761	Scooter	1420599
Private	7929	Mopeds	3789581
Total	27690	TWO WHEELERS	11207338
Mini bus	3989	Motor Car	1187109
		Jeep	43383
Contract Carriages		Tricycle Auto	4331
Autorickshaw	202133	Tractor	176556
Ordinary Taxi	4257	Three Wheeler	61081
Motor Cab (SP)	82677	Four Wheeler	16930
Motor Cab (AIP)	11204	Road Roller	1981
Maxi Cab (SP)	50630	Others	33469
Maxi Cab (AIP)	3609		
Omni Bus (SP)	515		
Omni Bus (AIP)	171		
Total	355196	Total Non Transport	12732178
Private Service Vehicles	11070		
School Bus	16491		
Ambulance	6041		
Fire Fighter	1582		
Total	35184		
Goods Carriages			
Lorries	209739	Transport	928539
National Permit Lorries	59428		
Tractor & Trailer	72666	Non-Transport	12732178
Light Commercial Vehicles	160002		
Articulated Vehicles	4645	State Total	13660717
Total	506480		
Transport Total	928539		

VEHICULAR POSITION IN CHENNAI CITY AS ON 01-4-2011

TRANSPORT		NON-TRANSPORT	
Stage Carriages		Motor Cycle	1563894
Public (Stu.)	5598	Scooter	401678
Private	8	Mopeds	615962
Total	5606	TWO WHEELERS	2581534
Mini bus		Motor Car	567568
	0	Jeep	9986
Contract Carriages		Tricycle Auto	2795
Autorickshaw	63640	Tractor	4353
Ordinary Taxi	1248	Three Wheeler	8192
Motor Cab (SP)	19559	Four Wheeler	2587
Motor Cab (AIP)	7275	Road Roller	204
Maxi Cab (SP)	11870	Others	8497
Maxi Cab (AIP)	2223		
Omni Bus (SP)	152		
Omni Bus (AIP)	71		
Total	106038		

TRANSPORT		NON-TRANSPORT	
Private Service Vehicles	2906	Total Non-Transport 3185716	
School Bus	2217		
Ambulance	1440		
Fire Fighter	109		
Total	6672		
Goods Carriages			
Lorries	33171	Transport	188849
National Permit Lorries	6613		
Tractor & Trailer	1548	Non-Transport	3185716
Light Commercial Vehicles	27272		
Articulated Vehicles	1929	State Total	3374565
Total	70533		
Transport Total	188849		

Performance Indicators (MTC)

Sl. No.	Item	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011
1.	Total Fleet	2803	3084	3260	3280	3421
2.	Average age of bus	7.83	4.77	3.59	2.23	2.72
3.	New buses put on	379	1139	732	774	326
4.	Schd. Services	2600	2775	3000	3057	3140
5.	Effective kms. (In lakhs)	2061.38	2401.9	3033.60	3329.29	3471.52
6.	Km./Bus/Day	271	280	298	308	316
7.	F. U. % (Incl. HNR)	76.4	81.63	88.11	92.11	88.09
8.	Km. Efficiency %	83.52	88.54	99.04	101.08	98.75
9.	% of Occupancy	85.88	81.17	75.27	80.22	87.20
10.	B. D./10,000 kms.	0.7	0.33	0.03	0.00	0.00
11.	ACCT/10,000 kms.	1.49	1.73	1.46	1.27	1.05
12.	Tyre life in km. (in lakhs)	1.6	1.69	1.66	1.73	1.62
13.	Passengers/Day (in lakhs)	38.18	40.84	47.76	52.05	55.19
14.	Men/Bus	6.25	6.83	6.93	7.01	6.88
15.	Absenteeism %	8.325	8.23	7.14	7.29	7.40
16.	KMPL	3.83	3.94	4.24	4.46	4.39

The Mining Sector—A Profile

The State of Tamil Nadu is the Southern province of the Indian Peninsula. The rich and varied mineral resources of the State have contributed handsomely towards the development and industrialisation of the State. It is one of the leading States in the reserves of the following minerals : Lignite, Garnet, Magnesite, Quartz, Feldspar, Clay, Limestone, Bauxite, Graphite and granite.

Under the dynamic leadership of the Hon'ble Chief Minister of Tamil Nadu, the mining policies and practices in Tamil Nadu are industry-friendly and pro-active. The potential reserves of the various minerals, offer good business opportunities for investors.

Geomorphologically, the State can be divided into three distinct zones—the North Western and Western regions covered by hilly terrains, the Eastern zone covered by coastal plains and in between these two zones middle level plain area spreading in North-south direction.

Geologically, the hilly terrains and the middle level plain contain crystalline hard rocks such as charnockites, granite gneiss, khondalites, leptynites, metamorphic gneisses with detached occurrences of crystalline Limestone, Iron Ore, Quartzite-feldspathic veins and basic intrusives such as dolerites and anorthosites. Coastal zones contain sedimentary Limestones, Clay, Laterites, Heavy Mineral Sands and Silica Sands. The hill ranges are sporadically capped with laterites and bauxites of residual nature.

Gypsum and phosphatic nodules occur as sedimentary veins in rocks of the cretaceous age. Gypsum of secondary replacement occurs in some of the areas adjoining the foot hills of the Western Ghats. Lignite occurs as sedimentary beds of tertiary age. The Black Granite and other hard rocks are amenable for high polish. These granites occur in most of the districts except the coastal area.

Potential for Gold deposits in Maharajakadai region of Dharmapuri district as the southern extension of Kolar Gold Fields and in the Gudalur-Devala region in the Nilgris District exists.

Area Under Principal Crops (in lakhs)

Sl. No.	Crops	2010-11 Achievement with reference to IV Advance Estimate	2009-10
1.	Paddy	19.948	18.455
2.	Cholam	2.860	2.385
3.	Cumbu	0.755	0.544
4.	Maize	2.811	2.442
5.	Ragi	1.045	0.823
6.	Pulses	7.274	5.358
7.	Sugarcane	3.362	2.933
8.	Cotton	1.219	1.041
9.	Groundnut	4.386	4.130
10.	Sunflower	0.096	0.143
11.	Castor	0.125	0.049
12.	Soyabeans	..	0.035
13.	Gingelly	0.750	0.627

Principal Crops (in lakhs)

Sl.	Crops	2010-11 IV Advance Estimate	2009-10
1.	Paddy (in terms of rice)	61.394	56.652
2.	Cholam	2.619	2.220
3.	Cumbu	1.114	0.827
4.	Ragi	2.467	1.609
5.	Maize	12.135	11.381
6.	Pulses	2.960	2.044
7.	Sugarcane	342.92	297.582
8.	Groundnut	10.734	8.957
9.	Soyabeans 170 Kg. lint each)	2.723	2.254
10.	Sunflower	0.143	0.190
11.	Caster	0.039	0.015
12.	Gingelly	0.401	2.902

ABSTRACT (Major Mineral)

Quantity of Mineral Permitted and Royalty realised during the year 2010-11

Sl. No.	Mineral	Quantity permitted in Tonnes	Royalty Realised in Rs.
1	Limestone	20820173	..
2	Magnesite	174710	..
3	Dunite	35735	..
4	Silica Sand	50665	..
5	Limeshell	280	..

Sl. No.	Mineral	Quantity permitted in Tones	Royalty Realised in Rs.
6	Fire Clay	260116	..
7	Ball Clay	16540	..
8	Vermiculite	1908	..
9	Gypsum	9921	..
10	Marl	692752	..
11	Graphite	50769	..
12	Garnet (Beach Sand)	2100600	..
13	Bauxite	47347	..
14	Soapstone	4250	..
15	Crude Oil	230177	..
16	Lignite	22829553	..
17	Quartz	53729	..
18	Feldspar	52840	..
19	Quartzite	300	..
Total		47432365	..

Sl. No.	Mineral	Quantity permitted in Tones	Royalty Realised in Rs.
1	Natural Gas	1102433021	..
Total		1102433021	..

ABSTRACT (Minor Mineral) Quantity of Mineral Permitted and Seigniorage Fee realised for the year 2010-11

Sl. No.	Minerals	Quantity permitted (in Cu. Mts./ Lorry loads)	Seigniorage Fee Realised (in Rs.)
1.	Black Granite	60042	..
2.	Colour Granite	174150	..
3.	Rough Stone	14413763	..
4.	Quartzite	2383	..
5.	Gravel/Earth/Clay/ Red soil/Savudu	14688154	..
6.	Pebbles	10362	..
7.	Kankar	22022	..
8.	Waste Granite	0	..
9.	Limeshell	36	..
Total		29370912	..

Name of Minerals Found in the State and the Place of Occurrence

1. Minor Minerals

Sl. No.	Name of the Minor Minerals	Place of Occurrence
1.	Granite Building Stone	Thiruvananthapuram, Kollam Pathanamthitta, Kottayam, Idukki, Ernakulam, Thrissur, Palakkad, Kozhikode, Malappuram, Wayanad, Kannur, Kasargod.
2.	Granite Dimension Stone	Thiruvananthapuram, Palakkad
3.	Laterite	Thiruvananthapuram, Kollam Pathanamthitta, Alapuzha, Ernakulam, Thrissur, Kozhikode, Malappuram, Kannur, Kasargod.
4.	Lime Shell/Sea Shell	Alapuzha, Ernakulam, Kozhikode Malappuram.

Sl. No.	Name of the Minor Minerals	Place of Occurrence
5.	Brick Clay	Thiruvananthapuram, Kollam Pathanamthitta, Alapuzha, Ernakulam, Thrissur, Kozhikode, Palakkad, Malappuram, Wayanad, Kannur.
6.	Ordinary Sand	Thiruvananthapuram, Kollam Pathanamthitta, Alapuzha, Kottayam, Idukki, Ernakulam, Palakkad, Kozhikode, Wayanad, Kannur, Kasaragod, Thrissur.
7.	River Sand	Entire state except Alapuzha District.

2. Major Minerals

Sl. No.	Name of the Major Minerals	Place of Occurrence
1.	China Clay	Thiruvananthapuram, Kollam, Kannur, Kasaragod.
2.	Ilmenite	Kollam
3.	Rutile	Kollam
4.	Zircon	Kollam
5.	Sillimanite	Kollam
6.	Silica Sand	Alapuzha
7.	Lime Shell	Alapuzha, Kottayam
8.	Lime Stone	Palakkad
9.	Bauxite/Laterite	Thiruvananthapuram, Kannur, Kasaragod, Kollam.
10.	Quartz	Wayanad
11.	Graphite	Thiruvananthapuram, Kottayam

Kerala State (Annexure)**B. (i) Project completed and commissioned during 2010-11**

Sl. No.	Name of the Project	Capacity in MW	Expected date of commissioning
1.	Periyar Vagai 1 Small HEP	2X2 MW	Unit-I commissioned on 2-11-2010. (2MW) Unit-II commissioned on 25-01-2010. (2MW).
2.	Bhavani Kattalai Barrage-2 (Hydro).	2X15 MW	Unit-I commissioned on 28-7-2011. (2MW) Unit-II commissioned on 29-9-2011. (2MW).

B. (ii) Under Construction and anticipated production Projects in the 11th Five Year Plan (2007-12) & 12th Five Year Plan (2012-2017)

Sl. No.	Name of the Scheme	Anticipated Production (MW)	Actual Production 30-9-2011	Commissioning Year/Date
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State Projects

1.	North Chennai Thermal Power Station (2 X 600 MW).	1200	..	Unit-I-Feb. 2012 Unit-2-Jan. 2012
2.	Mettur Chennai Thermal Power Station (1 X 600 MW).	600	..	March 2012

Sl. No.	Name of the Scheme	Anticipated Production (MW)	Actual Production 30-9-2011	Commissioning Year/Date
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Joint Venture Projects

1.	TNEB-NTPC at Vallur (3 X 500 MW)	1500 share (69.4%) 1041 MW	..	Dec. 11 (Unit 1) March 12 (Unit-2) Oct. 12 (Unit 3)
2.	TNEB-NLC at Tuticorin (2 X 500 MW)	1000 share 387 MW (38.7%)	..	Feb. 2013 (Unit-1) Jan. 2013 (Unit 2)
3.	TNEB-BHEL at Udangudi (2 X 800 MW)	1600	..	Oct. 2016 (Unit-1) March 2017 (Unit-2)

Area and production of crops during 2009-10 & 2010-11

Name of Crop	2009-10		2010-11 (Provisional)	
	Area (Ha)	Production (Tones)	Area (Ha)	Production (Tones)
Paddy	234013	897509	213185	721487
Rice	234013	598337	213185	537745
Pulses	4449	3390	N. A.	N. A.
Ground nut	1340	992	N. A.	N. A.
Oil Seeds				
Seasauam	608	206	N. A.	N. A.
Oil Seeds				

Million Nuts

Coconut	778618	5667	N. A.	N. A.
Green Chillies	1501	1302	N. A.	N. A.
Sugar Cane	2972	284970	N. A.	N. A.
Tobacco	29	34	N. A.	N. A.
Cotton	1018	225	N. A.	N. A.
Jowar	2547	1305	N. A.	N. A.
Ragi	293	236	N. A.	N. A.

Production of Coconut is in Millions nuts.

List of projects completed/commissioned under the preview of KSIDC during 2010-11

Sl. No.	Name of project	Location District	Cost Rs. Lakhs	Investment of KSIDC (Rs. Lakhs)		Empty (Nos.)	Source (Kerala/ Outside State/ NRI/Foreign)
				Share	Loan		
1.	Ananthapuri Hospitals Ltd.	Trivandrum	9485.00	415.00	1000.00	850	NRK (Gulf)
2.	Cochin International Airport Ltd. (Exp.)	Ernakulam	6400.00	..	200.00	30	NRK (Gulf)
3.	Customerline (P) Ltd., (Rev.)	Ernakulam	30.00	..	30.00	0	Kerala
4.	Devaragam Resorts Pvt. Ltd.	Trissur	1025.00	..	620.00	63	Kerala
5.	Kala Kodumudi (ERS)	Trivandrum	51.00	..	31.00	0	Kerala
6.	Krishna Gardens Regency Pvt. Ltd. (Exp.)	Palakkad	225.00	..	150.00	28	Kerala
7.	Samuel & Joseph Hotels (P) Ltd.	Trissur	532.00	..	250.00	50	Kerala
3.	Symphony TV	Trivandrum	100.00	25.00	..	50	Kerala
Total (8 Project)			17848.00	440.00	2281.00	1046	

LIST OF PROJECTS UNDER IMPLEMENTATION

Sl. No.	Name of project	Location (District)	Appr. Cost (Rs. Lakhs)	Investment of KSIDC		Empty (Nos.)	Source (Kerala/ Outside State/ NRI/Foreign)	Turn Over (Rs. Lakhs)
				Share	Loan			
1.	Abad Hotels (P) Ltd.	Ernakulam	390.00	..	234	200	Kerala	1694.81
2.	Aveda Resorts and Spa Pvt. Ltd.	Kottayam	1920	..	1150	93	OS (Maharashtra)	1059.18
3.	Carbomix Polymers (India) Pvt. Ltd.	Ernakulam	522.00	..	250.00	60	Kerala	405.00
4.	Cochin Hall Mark Co. Pvt. Ltd.	Thrissur	167.00	..	100.00	8	Kerala	586.56
5.	Cochin Waste to Energy Pvt. Ltd.	Ernakulam	1500.00	..	587.00	62	Kerala	604.73
6.	Eurotech Maritime Academy Pvt. Ltd. (Expn.)	Ernakulam	1710.00	..	925.00	23	Kerala	660.00
7.	Excel Glasses Ltd. (Rev.)	Alappuzha	2825.00	..	725.00	1000	OS (Maha)	8739.00
8.	Foodco Delicacies India (P) Ltd.	Alappuzha	800.00	..	400.00	225	Kerala	2304.67
9.	Geo Aquatic (P) Ltd.	Alappuzha	1000.00	..	600.00	240	Kerala	2172.60
10.	Hebron Aqua & Food (India) Private Ltd.	Ernakulam	480.00	..	240.00	20	Kerala	493.00
11.	Hoteltek Traders (P) Ltd.	Trivandrum	270.00	..	130.00	17	Kerala	402.36
12.	Kalki Communications Tech. (P) Ltd. (Expn.)	Ernakulam	250.00	..	150.00	40	Kerala	2830.00
13.	Kapico Kerala Resorts Pvt. Ltd.	Alappuzha	28665.00	..	2000.00	350	Forgn. (Singa)	10366.00
14.	Kerala Matwallah Pvt. Ltd.	Alappuzha	354.00	..	212.00	6	Kerala	1724.63
15.	Kerala Enviro Infrastructures (P) Ltd.	Ernakulam	780.00	100.00	371.00	29	Kerala	856.45
16.	KGA Estate Management Pvt. Ltd.	Ernakulam	16800.00	..	1500.00	175	NRK (Gulf)	6878.19
17.	KSIE (Expn.) Freight station	Ernakulam	3180.00	..	1680.00	246	Kerala	1234.80
18.	KSTC : Hi-Tech Weaving Mill	Kannur	2151.00	..	667.00	160	Kerala	4163.25
19.	KSTC : Hi-Tech Spinning and Weaving Mill.	Alappuzha	3739.00	..	1200.00	263	Kerala	3781.56
20.	KSTC : Ring Spinning Mill	Kasaragod	1766.00	..	537.00	183	Kerala	1917.36
21.	Kumarakam Accqa Serene Pvt. Ltd.	Kottayam	1100.00	..	550.00	100	Kerala	613.00
22.	Malabar Ispat Pvt. Ltd.	Kasaragod	1882.00	..	941.00	120	Kerala	12576.00
23.	Parissons Agrotech Pvt. Ltd.	Ernakulam	3000.00	..	1500.00	135	Kerala	22141.94
24.	Propyl Packs (P) Ltd.	Thrissur	1800.00	..	1080.00	50	Kerala	4806.00
25.	Reva Proteins Ltd.	Ernakulam	3000.00	..	2000.00	95	Forgn (Japan)	2983.00
26.	Sea Lagoon Hotels (P) Ltd.	Ernakulam	1700.00	..	850.00	52	Kerala	1250.04
27.	SIDCO : Tool room and Training Centre	Kozhikode	1290.62	..	400.00	68	Kerala	..
28.	Silver Castle Holidays & Resorts India (P) Ltd.	Wayanad	1455.00	..	850.00	127	Kerala	952.22
29.	Steel & Industrial Forgings	Thrissur	1172.00	..	586.00	60	Kerala	1014.75
30.	Sunpower Cement Company Pvt. Ltd.	Palakkad	1550.00	..	774.00	45	Kerala	1860.00
31.	Tierra Food India Pvt. Ltd.	Ernakulam	1140.00	..	660.00	52	Kerala	2160.00
32.	TMV Natural Oil & Extracts Pvt. Ltd.	Ernakulam	325.00	..	195.00	20	Kerala	1006.25
33.	Traco Cable Company Limited	Ernakulam	1030.00	..	400.00	120	Kerala	2886.30
34.	Travel Scapes Hotels Pvt. Ltd.	Trivandrum	1342.00	..	800.00	55	Kerala	619.78
35.	ULCCS IT Infrastructure (P) Ltd.	Kozhikkode	21000.00	924.00	2000.00	4015	Kerala	3831.97
36.	YTS Developers and Properties (P) Ltd.	Trivandrum	1100	..	650.00	20	Kerala	228.78
Total			112855.62	1024.00	27894.00	8534		111804.18

List of New Proposals : Mega Projects of KSIDC

Sl. No.	Name of project	Location (District)	Expected investment (Rs. Crores)
1.	LNG Terminal of Petronet LNG Ltd.	Ernakulam	4,000
2.	Expansion project of Kayankulam Thermal Power Station of NTPC.	Alappuzha	8,000
3.	The Kochi-Mangalore Gas Pipe Line Project of GAIL.	Kerala	3,000
4.	City Gas Distribution project	Ernakulam	2,000
5.	Electronic Hardware Park	Ernakulam	2,000

Sl. No.	Name project	Location (District)	Expected investment (Rs. Crores)
6.	Thermal Power Project (Gas/Coal)	Kasaragod	4,800
7.	Titanium Complex	Kollam	2,000
8.	Life Sciences Park	Trivandrum	750
9.	Light Engineering Park	Palakkad	50
10.	Coconut Industrial Park	Kozhikode	100
11.	Educational Complex at IGC	Malappuram	250
12.	High Speed Rail Corridor	Kerala	77,000

(i) The details of completed and commissioned power projects during 2010-11 is given below :

Hydel Schemes :

(a) Kuttiadi Additional Extension Scheme (100 MW-223 MU) KSEB's Project, Kozhikode district.

(b) Iruttukkanam (3 MW-11 MU) Independent Power Project, Idukki district.

(c) Poozhithode SHEP (4.8 MW-10.97 MU) KSEB's project, Kozhikode district.

Co-generation Scheme :

(a) Philips Carbon Black Limited (10 MW) Independent Power Project, Ernakulam District.

ii & iii The details of power projects under costmers and other

Sl. No.	Name of the scheme	Capacity
ONGOING PROJECT		
1.	Ranni perinad SHEP	4 MW/16.73 MU
2.	Peruthenaruvu SHEP	6 MW/25.77 MU
3.	Pallivasal Extension Scheme	60 MW/164.87 MU
4.	Thottiyar	40 MW/99 MU
5.	Sengulam Augmentation Scheme	85 MU
6.	Peechi	1.25 MW/3.28 MU
7.	Kakkayam SHEP	3 MW/10.39 MU
8.	Chimmony	2.5 MW/6.50 MU
9.	Chathankottunada II	6 MW/14.76 MU
10.	Vilangad	7.5 MW/22.63 MU
11.	Barapole	15 MW/36 MU
12.	Poringalkuthu Stage I SHEP	24 MW/45.02 MU
Total		169.25 MW/529.95 MU

TENDERED PROJECTS

1.	Vellathooval SHEP	3.6 MW/12.17 MU
2.	Anakkayam	7.5 MW/22.83 MU
3.	Athirapally	163/386 MU
4.	Adyanpara	3.5 MW/9.01 MU
		177.60 MW/430.01 MU

PROJECTS TO BE TENDERED IN THE YEAR 2011-12

1.	Mankulam	40 MW/82 MU
2.	Olikkal	4.5 MW/10.18 MU
3.	Chembukadavu Stage III	6 MW/14.92 MU
4.	Peruvannamoozhy	6 MW/5.15 MU
5.	Upper Kallar	2 MW/5.15 MU
6.	Poovaramthodu	2.7 MW/5.88 MU
Total		61.2 MW/142.83 MU

2. Railway Kilometrage

The open line Kilometrage as on 31st March 2011 :—

Gauge	Route Kilometrage			Track
	Single line	Double/ Treble/ Quadruple lines	Total	Kilometrage including sidings kilometrage
1. Southern Railway :				
Broad Gauge	2,712.62	1,491.24	4,203.86	7,385.86
Metre Gauge	898.26	0.00	898.26	964.64
Narrow Gauge	0.00	0.00	0.00	0.00
Total	3,610.88	1,491.24	5,102.12	8,350.50

3. General Review of working for the year 2009-2010 and 2010-2011 are as follows :—

	2009-10	2010-11
Gross Earnings (in crores of Rupees).	4,456.90	4,790.27
Working Expenses (excl. Suspense) (in crores of Rupees).	4,797.27	4,820.47
Number of passengers carried.. (in millions).	739.24	787.91
Tones originating (Revenue) .. (in millions)	35.73	35.11
Tones Carried system (in millions).. (Revenue)	69.68	61.90
Freight tonne kms. (System) .. (Revenue) (in millions).	16,644.00	15,748
Goods Train kms. (in millions)..	11.97	11.53
Train Engine kms. (Goods and prop.) (in millions).	22.83	22.67

4. PLANNING

1.0 EFFICIENCY & PLANNING CELL

1.1 WORK STUDIES/CRASH STUDIES

Conducting Work Studies and Crash Studies and follow up for implementing them is one of the main functions of Planning Branch. These studies are undertaken to improve the efficiency and to achieve economy in different fields of Railways working. Crash Studies are carried out in specific activity centres like stations, sheds, etc., with a view to identify surplus staff and make recommendations for reduction in staff strength.

1.2 During the year, 51 Work Studies were completed. These reports identified 1498 (Group'C' 701 & Group 'D' 797) posts as surplus with a projected savings of Rs. 40.31 Crores per annum (approx.).

1.3 During the year, 1282 posts (comprising both Group'C' and Group'D') were surrendered/redeployed against the target of 1200 posts fixed by Railway Board. The annual financial savings on account of the above surrender/redeployment has resulted in a savings of Rs.34.55 Crores per annum (approx.).

1.4 The surplus posts identified and surrendered as a result of the Work Studies were credited to the Bank of Surplus posts.

2.0 SOUTHERN RAILWAY MONTHLY GAZETTE

Efficiency Cell publishes Southern Railway's Monthly Gazette. Results of selections held, retirement of staff, changes in the employees' name, missing of Pass, PTO and Cash Value books are received from all Divisions/Units, compiled and published in the Gazette every month.

3.0 "CORPORATE PLAN-2010-11" & "SALIENT FEATURES-2010" PUBLICATIONS

Publication titled "Corporate Plan - 2010-11" and a Publication titled "Salient Features 2010" were brought out by this Branch. Divisional workload and operating-cum-efficiency indices, data collection for the award of Pandit Govind Ballabh Pant Shield for the Best Zonal Railway and the assessment for the award of Inter-Divisional and Departmental shields during Railway Week Celebration at Zonal level were also dealt by Planning Branch.

5. STATISTICAL ORGANISATION

Statistical Organisation is under the administrative control of FA & CAO/Traffic, who is assisted by Dy. CAO/Traffic and an Assistant Statistical Officer.

This Organisation is collecting, compiling and furnishing accurate and up-to-date data on various facets of Railways. It is supplied to all levels of management for taking decisions on day-to-day basis, and also for planning strategies to improve efficiency and eliminate wasteful expenditure. The aim is "Efficiency with Economy".

Advance Gross Earnings and Traffic handled are reported for every 10-day period. Various efficiency results like NTKM per Engine Hour, Percentage of Train Engine Hours to Total Engine Hours, Engine kilometers per Engine day in use etc. are reported every month.

Around 45 Annual Statistical Statements covering Financial, Operating, Commercial, and Personnel statistics are prepared and sent to Railway Board to meet requirements at various levels. They also form part of the Budgetary Documents.

A handy booklet - Pocket book of financial results and important Statistical Highlights - exhibiting data for five years at a stretch on important statistical parameters of Southern Railway, with graphical representation, is published to help the administration to review, and in decision-making. It helps in manpower planning, asset utilization and to devise marketing strategies for better performance.

At present the following details are posted in the statistical branch web page :

1. Periodicals Statements like 10 day period earnings, Express letter and 12 Commodity Statement.
2. Operating Statistics like Monthly Evaluation Report, Performances of Passenger and Goods Trains, Punctuality Statistics.
3. Pocket Book of Financial Results and important Statistical Results (yearly).

GMR-2

Traffic costing cell

Traffic Costing Cell of this Railway continued to do

- a) Cost Analysis of Coaching Services.
- b) Cost Analysis of Freight Services.
- c) Study on the Economics of EMU Services.
- d) Analysis of Incremental Cost for Goods services and
- e) Analysis of the Shunting Engine Hourly Costs.

The reports have been reverse sent to Railway Board for further action and to enable preparation of end result booklets, containing the unit costs of Coaching and Goods services.

A part from preparation of Annual costing reports, Traffic Costing Cell undertook special cost studies. they were :

- 1) Cost study on DEMU services.
- 2) A Cost and Profitability study of Deepawali specials 2010.
- 3) A cost study on proposed additional train between ONR and UAM in Nilagiri Mountain Railway.
- 4) A cost study on Goods traffic between TTP and KKDI.
- 5) A cost study on operation of diesel locos in electrified routes of SR.

Data Processing Centre —

Southern Railway Headquarters IT centre is located in the Moore Market Complex, VIIIth floor. The main activities of this Office include processing of the following applications at HQ level, divisional level and other areas of Southern Railway :—

1. Financial Management System
 - a. FMIS b. AFRES
2. General and workshop Pay roll System
 - a. PRIME b. WGR
3. Freight Accounting System
4. Passenger Accounting System
5. Material Management System
 - a. MMIS b. MMGT
6. Operating Statistics System

1. a) FMIS-Financial Management Information System

This is **COBOL** based software application used for consolidation of Account current processing at Head Quarters level and generation of revenue and capital schedules. Parallel processing and testing is being done for migration to ORACLE.

b) AFRES—Advanced Finance and Railway Earnings & Expenditure System.

This is an **ORACLE** based integrated system, provides total solution for automation of Accounts Dept. of Railways. The System covers.

- ❖ **Internal Check**—Establishment Bills and Expenditure bills registration, audit and payment.
- ❖ Linked with **PRIME** for employee payments.—
- ❖ **Suspense**—Establishment and Expenditure suspense monitoring and generation of suspense registers.
- ❖ **Books**—Cheques generation, Cheques & Bank Scroll reconciliation, remittance into bank reconciliation, book closure (Cash book I & Cash book II and account current), generation of revenue and capital schedules.
- ❖ **PF, PENSION, New Pension Scheme**—
 - ✦ **PF**—Maintains employee PF account Accounting debits & Credit, interest calculation, settlement, reconciliation.
 - ✦ **NPS**—Maintains employee Pension Fund Account— debits & credits and Government contribution, reconciliation, statutory reports and data transfer to NSDL.
 - ✦ **PENSION**—Preparation of Pension Payment Orders, Settlement of retirement benefiers, Reconciliation, etc.
- ❖ **Traffic Accounts**—Station Master's Balance Sheet for Goods, Coaching and Misc. receipts.
- ❖ **Cash**—Revenue Earnings from Stations.
- ❖ **Pay**—Paymaster Generation of all bills and payments made to staff, Suppliers and Contractors.

General and Workshop Payroll Systems

1. **PRIME**—Payroll and Related Independent Modules—

This Oracle based software application is in use for:

- ❖ Employee Information System.
- ❖ Generation of Payroll for administrative, workshop and running staff.
- ❖ Incentive payments for workshop employees.
- ❖ Generation of supplementary and arrears bills.
 - ✦ MACP
 - ✦ PLB, DA arrears payments.
 - ✦ Other arrears bills viz., NDA, OT, etc.
- ❖ IT—projection statement, Form 16, etc.
- ❖ Welfare activities like Loans & Advances disbursement and recovery of principal and interest.
- ❖ Settlement payments—Leave encashment, GIS payment, etc.
- ❖ Linked with AFRES for employee payments.

WGR Workshop General Register & Labour Summary—

The Labour summary module has been successfully migrated to **ORACLE**.

1. **Freight Accounting System**—

This ORACLE based software application is in use for:

- ❖ Processing of MG and BG coaching censuses in ORACLE for S. Rly. and SWR.
- ❖ Processing of MG and BG Wagon censuses in ORACLE for S. Rly. and SWR.
- ❖ RMC data capturing and processing done in ORACLE.
- ❖ Data capturing from FOIS terminal available at Traffic Accounts and necessary modification are carried out and used for ORACLE processing.
- ❖ Generation of other applied reports like Analysis, originating Statistics, Commodity Statistics etc. are carried out.
- ❖ CONCOR inputs are also processed and tonnage and Revenue included in necessary Reports.
- ❖ Generation of 7A Reports and files are processed in **ORACLE** and forwarded to Railway Board through Statistical Branch.
- ❖ Files to Rites for centralized Apportionment System generated in **ORACLE** and forwarded to RITES through Traffic Accounts.

4. **Passenger Accounting System**—

This **COBOL** based application software used for processing the following, for both SR & SWR:—

- ❖ Passenger Classification data capturing and internal check.
- ❖ Generation of validity listings and MIS reports for Traffic Accounts.
- ❖ Ticket Indent work order generation.
- ❖ Normal and emergency indents.
- ❖ Validation of PRS & UTS data received from PRS (CCM).
- ❖ Summary file generation and data transfer to RITES for apportionment.
- ❖ Efforts are on for migrating this application to **ORACLE** based system.

5. **MMIS & MMGT**—Material Management System

This is **COBAL** based system processed in IT center for Stock Register Generation and various MIS reports for Stores department.

Efforts are on for conversion this portion of material management system also to Oracle platform.

6. **OSS Operating Statistics System**

This is Oracle based software application which caters for automation of Engine Mileage Statistics for generation various MIS reports for Statistical Department.

Other Activities

- ❖ Support for other divisions and workshop for.
 - ✦ Processing of Payroll
 - ✦ Maintenance of Software and database
- ❖ Maintenance of **ROLIN** Internet network used for **ORACLE** based applications.
 - ✦ Facility Management contract is awarded to external agency for maintenance.
- ❖ Technical Clearance for any proposal for computerization and software and hardware procurement, licensing, etc.
- ❖ Plan Head 17 (Computerization) maintenance for Southern Railway.
- ❖ Computer learning Centre—
In house training for staff from other departments in various software products.

6. Public Grievances Cell

All Public Grievances are investigated in detail by the Public Grievances Cell both at the Headquarters and the Divisions and suitable corrective/preventive action is taken. Where the staff are found at fault, disciplinary action is taken against them to prevent recurrence. Training programmes are arranged and also counselling sessions held in order to create awareness amongst them for better service orientation. In all cases, replies are sent to the complainants explaining the position in detail.

2. All measures are taken to create a feeling in the minds of the 'Travelling Public' that their interest, welfare and safety are taken care of by the Railways.

3. Details about the number of complaints received and dealt with in respect of major categories during 2010-11 as compared to those received during 2009-10 are given below:—

Sl. No.	Classification	Number of complaints						
		2009-10			2010-11			
		Opening Balance	Received	Disposed	Balance	Received	Disposed	Closing Balance
1.	Behaviour of staff	2	92	92	0	152	148	4
2.	Lack of Amenities/unsatisfactory maintenance of amenities at stations/trains.	2	306	289	17	277	290	4
3.	Late running of trains	0	88	88	0	119	118	1
4.	Coaching—Reservations and other than reservations.	3	396	396	0	419	416	3
5.	Catering arrangements	0	95	95	0	65	64	1
6.	Miscellaneous/suggestions.	7	435	434	1	415	414	2

4. Number of complaints received, disposed of and pending during 2010-11 as compared to the previous year is as follows:—

Year	Opening Balance	Receipt	Total	Disposed	Pending
2009-2010	14	1439	1453	1435	18
2010-2011	18	1447	1465	1450	15

5. During 2010-2011, a total number of 1447 complaints other than suggestions were registered as compared to 1439 complaints in 2009-2010.

6. **Incivility.**—Complaints regarding incivility/behaviour of staff are investigated thoroughly and in proved cases, deterrent action is taken against the staff at fault.

7. Public Relations and Publicity (April 2010 – March 2011)

Public Relations Department of Southern Railway, which serves as a link between the organisation and the public, plays a key role in projecting the corporate image of Southern Railway.

Keeping the public abreast of the developments on the Railways through the print and electronic media is the primary responsibility of the Public Relations Wing. Organised Publicity Campaigns and media related activities are fundamental to the growth of a corporate organisation. The Public Relations Department was engaged in various activities such as media coverage, publicity campaigns and participation in exhibitions besides maintaining a record of media feed back.

PRESS COVERAGE :

Dissemination of information to the travelling public is the primary responsibility of the department. Press releases, that are both informative – dealing with train operations and development-oriented – highlighting the achievements and innovations in the various facts of railway activities, are the basic inputs that keep the public

abreast of day-to-day railway working. During the period, 1024 press releases that were operational and informative in nature/concentrating on developmental activities and achievements of the Railway were issued.

Press Conferences/Press meets were arranged on various occasions focussing on the activities of the Railway. Rejoinders were issued, wherever necessary, to counter wrong and distorted reports appearing in certain sections of the press. Complaints and grievances appearing in the columns of the press were taken up for immediate action.

TELEVISION/ALL INDIA RADIO COVERAGE

Wide coverage was given for all Railway events by the AIR, Doordarshan and Satellite television channels. Important press releases were flashed on the Radio and TV networks for the benefit of the public. Informative programmes, inclusive of interviews by senior Railway Officials, were broadcast/telecast on the AIR and TV for the benefit of the public. A wide range of topics including Railway operations and social awareness themes with regard to passenger security were given adequate publicity.

CAMPAIGN ADVERTISING

Healthy publicity through appropriate media channels is necessary to promote the corporate image of the establishment. A total of 22 display advertisements were released in the national and regional newspapers and magazines. Besides focussing on developmental activities on Railways, the advertisements also served to educate the travelling public on safety issues such as level crossing at unmanned gates and carrying of inflammable articles in trains, etc.,. Advertisements notifying introduction of new trains, cancellation/changes in existing operations were also published in leading dailies.

PUBLICITY LITERATURE

No publicity campaign is complete without publicity literature. Wide-ranging publicity campaigns on various social awareness issues were organised through the print and electronic media.

Multi-coloured brochures, folders and posters were published in English, Tamil, Malayalam and Hindi to mark specific occasions, especially inauguration of new projects/ train services etc.

Leaflets were printed and issued to publicise the New Year greetings and messages of MR, CRB and GM in English and regional languages.

EXHIBITIONS

Railway pavilions at the various tourist/trade fairs across the country have been attracting vast crowds every year. As part of the PR exercise, Southern Railway participated in the following exhibitions during the year :—

1. All India Tourist and Trade Fair at Chennai (December 2010 to March 2011)
2. All India Industrial, Agricultural, Educational and Cultural Exhibition at Trichur from April 2010 to May 2011.
3. Chamber of Commerce Trade Fair at Madurai (Dec.2010-Jan.2011)

Besides, the Railway also participated in a number of regional exhibitions conducted by educational institutions and social organisations.

Details of important events from 1.4.2010 to 31.3.2011

Date	Events
13.04.2010	Inauguration of Philatelic Exhibition on Wheels and Releasing of special cover on the occasion of 55 th Railway Week Celebrations by Shri Deepak Krishan, General Manager
25.04.2010	Inspection of Madurai Railway Junction, Opening of an annexe building for Booking Counters at Madurai and Inspection of Pamban rail bridge by Shri S.S.Khurana, Chairman, Railway Board.
01.05.2010	Restoration of Nilgiri Mountain Railway services in the Coonoor – Mettupalayam section by Shri Deepak Krishan, General Manager.
10.05.2010	Dedication of the newly-converted broad gauge section between Villupuram – Mayiladuthurai by Shri E. Ahamed, Hon'ble Union Minister of State for Railways, Shri G.K. Vasan, Hon'ble Union Minister of Shipping, Shri S.S. Palanimanickam, Hon'ble Union Minister of State for Finance.
12.05.2010	Laying foundation stone for a Pilgrim Complex at Chengannur Railway station by Shri E. Ahamed, Hon'ble Union Minister of State for Railways.
12.05.2010	Inauguration of the newly-converted broad gauge section between Kollam and Punalur and flagging off of train services by Shri E. Ahamed, Hon'ble Union Minister of State for Railways.
24.06.2010	Inauguration of newly-built Booking cum Reservation Office Complex at Kozhikkode Railway Station by Shri E. Ahamed, Hon'ble Union Minister of State for Railways.
25.06.2010	Laying of foundation stone for development works at Kannur Railway Station and increase in frequency of Kannur – Yesvantpur- Kannur expresses from tri-weekly to daily by Shri E. Ahamed, Hon'ble Union Minister of State for Railways
30.06.2010	Release of new Time Table by Shri Deepak Krishan, General Manager.
31.07.2010	Inauguration of new Model station building at Ambur Railway Station by Shri E. Ahamed, Hon'ble Union Minister of State for Railways.
14.08.2010	Flagging off of the inaugural special service of the extended Mumbai CST – Karwar tri-weekly superfast express to Mangalore Junction at the Mangalore Junction Railway Station by Shri K.H. Muniyappa, Hon'ble Union Minister of State for Railways.
15.08.2010	Flagging off of Heritage Run hauled by the oldest running steam locomotive in the world – "Express Loco – EIR 21" by Shri Deepak Krishan, General Manager.
27.09.2010	Flagging off of the inaugural special of Tiruchchirappalli – Mangalore Central Weekly Superfast Express at Tiruchchirappalli Junction by Shri E. Ahamed, Hon'ble Union Minister of State for Railways.
27.11.2010	Flagging off of the inaugural special of Ernakulam – Pune bi-weekly Superfast Express at Ernakulam Junction by Shri E. Ahamed, Hon'ble Union Minister of State for Railways and Prof. K.V.Thomas, Hon'ble Union Minister of State for Agriculture.
12.12.2010	Laying foundation stone for the new Halt station at Nedumbassery by Shri E. Ahamed, Hon'ble Union Minister of State for Railways and Prof. K.V.Thomas, Hon'ble Union Minister of State for Agriculture.

Date	Events
13.12.2010	Felicitation of the medal winners and participants of Commonwealth Games 2010, New Delhi and Asian Games, 2010, Guangzhou, China, by Shri Deepak Krishan, General Manager.
19.12.2010	Increase in frequency of the Nagercoil – Mangalore Ernad Express from tri-weekly to daily. Flagging off of service by Shri E. Ahamed, Hon'ble Union Minister of State for Railways.
04.01.2011 - 06.01.2011	Inter –Railway Cultural Competition.
10 & 11.01.2011	Sanskriti Yatra – a cultural journey towards heritage and culture.
12.01.2011	Laying foundation stone for development works at Nilambur Road Railway Station by Shri E. Ahamed, Hon'ble Union Minister of State for Railways.
12.01.2011	Laying foundation stone for development works at Angadipuram Railway Station by Shri E. Ahamed, Hon'ble Union Minister of State for Railways.
13.01.2011	Inauguration of Integrated Unreserved Ticketing System and Laying of foundation stone for foot-overbridge at Vallikunnu Railway Station by Shri E. Ahamed, Hon'ble Union Minister of State for Railways.
14.01.2011	Flagging off of the inaugural special of Ernakulam – Lokmanya Tilak bi-weekly Duronto Express by Shri E. Ahamed, Hon'ble Union Minister of State for Railways.
20.01.2011	Flagging off of the inaugural special of Kozhikkode – Thiruvananthapuram Jan Shatabdi Express via Kottayam by Shri E. Ahamed, Hon'ble Union Minister of State for Railways.
25.01.2011	Flagging off of Coimbatore – Tirupati tri-weekly Express by Shri Pongalur N. Palanisamy, Hon'ble Minister for Rural Industries and Animal Husbandry, Govt. of Tamilnadu.
25.01.2011	Flagging off of Coimbatore – Erode MEMU service by Smt. P. Geetha Jeevan, Hon'ble Minister for Social Welfare, Govt. of Tamilnadu
25.01.2011	Dedication of Tiruchendur – Tirunelveli passenger service to the nation.
25.01.2011	Flagging off of the inaugural special of Chennai Central – Coimbatore Duronto Express by Shri Dayanidhi Maran, Hon'ble Union Minister of State for Textiles.

8. Railway Users' Committee

Various consultative Committee Bodies viz. Zonal Railway Users' Consultative Committee, Divisional Railway Users' Consultative Committees, Suburban Railway Users' Consultative Committee and Station Consultative Committees provide opportunities for Rail Users to interact with the administration. The issues addressed are broadly related to introduction of new trains, new stoppages revision of timings, revision of passenger amenities construction of new lines, gauge conversion works etc.

The Committees have representatives from Parliament, State Legislatures, State Governments, Chamber of Commerce and Trade Associations, Agricultural Interests, Public Sector Undertakings, Passenger Associations, besides nominations under Special Interests.

During the year 2010-11 two meetings of ZRUCC/were held. Two meetings each of DRUCC Palakkad, Thiruvananthapuram, Tiruchchirappalli and Madurai were held. Three Meetings of Chennai and four meetings of Salem were conducted.

During the year 2010-11 two meetings of ZRUCC/were held. Two meetings each of DRUCC Palakkad, Thiruvananthapuram, Tiruchchirappalli and Madurai were held. Three Meetings of Chennai and four meetings of Salem were conducted.

9. Vigilance Organisation

The Vigilance Department has been focusing on Preventive and Educative Vigilance apart from complaint investigation. Many Seminars and Workshops were conducted to educate the employees about the things which they are supposed to do and not supposed to do. This way, the knowledge of the employees regarding the latest rules in force is updated and they are trained to be effective in discharge of their duties. Preventive checks are conducted to ensure no irregularity is left undetected. Effective steps are taken to speed up the DAR process so that justice is not only done but also seem to be done in a transparent and unbiased manner. Special emphasis is given for Presidential & PMO references, CA-iii references, CVC's referred complaints and complaints appearing in the media. Source information on alleged irregularities are collected from various sources and Checks are carried out on serious cases of irregularities. A close liaison is maintained with CVC & CBI. Preventive checks are conducted regularly on officials of doubtful integrity and those who are on "Agreed" and "Secret" lists. Regular and surprise inspections are conducted at sensitive work units which are susceptible to corruption.

2. Handling of complaints:

Detailed investigations are undertaken in all cases of genuine complaints. During the year 2009 - 2010, 174 complaints were taken up for investigation.

The total No. of complaints investigated during the year and the results thereof are given below:

	2010 – 2011		
	Gazetted	Non-gazetted	Total
No. of complaints investigated	39	135	174
No. of major penalty proceedings initiated therefrom.	17	19	36
No. of minor penalty proceedings initiated therefrom	13	55	68

3. Preventive Checks :

Sensitive areas are identified on the basis of Perception Index, which is a computerized method of finding areas susceptible to corruption, Division-wise and area wise, which had increased the efficiency of the Preventive Checks. Special efforts are taken in case of Mass Contact Area, like PRS, Booking Office and Trains, which has a bearing on

the image of the Railways as a whole. Special Checks are organized during important festival seasons and holidays in PRS and in Trains to detect irregularities so that genuine passenger is not put to unnecessary hardship. Re-weighment is done regularly to detect leakage of revenue due to over-loading, which is having a safety angle too. Special efforts are taken to nab touts and unauthorized travel agents from garnering accommodation meant for genuine passengers and to prevent black-marketing on Train tickets.

During the year 2010-2011, 2817 preventive checks were conducted by the Vigilance Organization. Department-wise breakup of checks done is furnished below:-

	No. of checks
Accounts	5
Civil Engineering	98
Electrical Engineering	23
Mechanical Engineering	44
Medical	22
Personnel	63
Security	40
Signal & Telecommunication.. ..	29
Stores	54
Commercial/Operating	2436
Others	3
Total	2817

A total of 33 "Departmental Test Checks" were conducted over stations, trains, circulating areas of major stations etc. during the year 2010 - 2011 to curb down the malpractices.

4. Punitive Action taken during the year 2010 - 2011

The Inquiry Organization functioning under SDGM & CVO has completed 68 departmental inquiries during the year 2010 - 2011 and Inquiry Reports were sent to the concerned disciplinary authorities for necessary DAR action.

Penalty	Gazetted	Non-gazetted	Total
MAJOR	5	94	99
MINOR	55	677	732

5. Earnings accrued to the Railway through vigilance checks during the year 2010 - 2011 was ₹ 1,24,86,163/-.

The break-up of the earnings through vigilance check is as follows :-

Sl. No.	Details of earnings	Amount (₹)
1.	Earnings from without ticket passengers	18,52,537
2.	Earnings from transferred tickets ..	19,63,921
3.	Earnings from un-booked luggage/parcels	8,352
4.	Earnings from undercharges realized ..	63,98,698
5.	Earnings from higher travel	35,437
6.	Demurrage wharfage charges realized ..	1,82,400
7.	Earnings from excess/shortfall in Govt. cash.	7,435
8.	Other traffic recoveries	2,90,075
9.	Leave Account / Establishment matter ..	6,73,402
10.	Technical recoveries	3,42,222
11.	Amount realized as fine by Court of Law	7,31,684
	Total	1,24,86,163

6. System Improvements suggested by Vigilance:

1. To prevent leakage of revenue, System Improvement has been suggested in manning the Retiring Rooms and A/C dormitories. A revised proforma has been suggested for the Register and also modifications in the manner of booking and vacation of Retiring Rooms to ensure checks & balances.

2. To prevent manipulation of UTS tickets, System Improvement has been suggested to issue necessary instructions to Booking Supervisors to ensure safe-custody of key to the printer, to keep a vigil on frequent NIs of High-value tickets and mismatched tickets. TIAs and AAs have been advised to check the NI tickets and detect frauds. Ticket Checking staff have been advised to check the unreserved UTS tickets for any mismatch and in case of any mismatch, the ticket should be collected from the passengers by issuing a free EFT and bring the matter to the knowledge of the Sr.DCM of the division without fail.

3. During a preventive check, it was unearthed that a large quantity of medicines were siphoned off from RH/PER on fake OP chits. Many a times the OP chits were produced by relatives / friends of the patients and got the medicines prescribed based on the OP chits. It was found that many of the OP chits were fake. To streamline the issue of medicines and to avoid siphoning of medicines using fake OP chits, the following system improvement was suggested :-

- (i) All eligible employees and their wards should be provided with individual OP book in hard bound ;
- (ii) No OP chits should be generated without production of this OP book and medical card;
- (i) All medical card should have PF no. of the employee;
- (ii) All medical card should be renewed as soon as there is change in family composition, a quick renewal should be put in place;
- (iii) Attempt may be made for providing Bio-metric system to identify the patients.

4. System improvements are suggested in connection with in-motion weigh bridge for ensuring the optimum utilization of the weigh bridge and the AMC rates needs a revision as including the cost of weigh rails to be made on need basis.

5. In order to plug leakage of revenue on refund of e-tickets after charting, System Improvement has been suggested to make Exceptional Data Report into a Book form with 3 foils each and to be filled up by the TTE manning the last-leg. One foil is to be sent to CCO and one copy to be handed over to the destination to feed EDR. Thus, delay in verification of refund claims on e-ticket will be totally eliminated and fraudulent claims can be identified and IRCTC advised to take necessary action against the claimants, apart from forfeiting their Security Deposit.

6. In the recent vigilance checks, it is revealed that the field officials have gone to the extent of recording the ground level certificate after entering measurements of ballast stock in the MB (below recorded measurements in the MB), which would mean that ground level certificate is given after supply, collection and measurement of ballast, which is irregular. The depot / cess shall be inspected after necessary

leveling & if the ground is found level & suitable for ballast collection, a certificate to that effect to be submitted to higher officer, before the collection of ballast. Notwithstanding the vigilance proceedings & DAR actions, it is desired that extant guidelines and the recent RB letter No.2000/CE II/MB/2 dated 25.05.07 need to be reiterated among field officials.

7. A system improvement was suggested for conducting periodical inspections for quality of medicines stocked and selling of unapproved items in Medical Stores at station premises by Medical and Commercial departments of Southern Railway. A medical store in one of the Railway stations was imposed a fine of Rs.5,000/- for selling substandard and unapproved item.

8. To prevent manipulation of numbering of the Reservation application forms and to check inside booking in the PRS counters, a System Improvement was suggested to write the last three digits of the CPT in the forms, which will leave no room for manipulation.

9. During a preventive check conducted on **PEST CONTROL** contract in one of the depots the following system improvements were suggested :-

(i) The rack should be kept locked after the disinfection operation is completed for a time recommended by the pest control contractor according to the chemical used. The key of the lock should be under the custody of supervisor nominated to oversee the pest control contract.

(ii) A separate file is to be maintained to deal with the passenger complaint on the aspect of the pest menace in the coaches.

10. During a preventive check conducted on **YARD CLEANING** contract in one of the depots and the following system improvement were suggested :-

The daily work sheet should contain the following items, which are the part of the schedule of work—

- i. De weeding in and around the prescribed area.
- ii. Collection and disposal of garbage.
- iii. Sweeping and scrapping of aprons in the maintenance area and office building.
- iv. Removal of slush, blockage and scrapping in the pit line.

11. During the check conducted in the RRB examination center it was found that The number of absentees was more than 82%. In this connection , it is suggested to devise a suitable system to certify the free pass issued for SC/ST candidates at the examination center for their return journey, failure of which should render the pass invalid . This will avoid misuse of free pass.

12. During a preventive check at the RRB office it was noticed that the postal orders sent to the postmaster on the same date are sent with covering letters bearing the same numbers for different amounts hence the following system improvement was suggested. While remitting the postal orders to the postmaster on the same date the covering letters are to be sent with a unique number to avoid confusion during back reference, if any.

13. To ensure proper checking of Identity Card for e-ticket holders by the TTEs, System Improvement has been suggested to instruct the TTEs to write the type of Identity Card and the number of the card in the Working chart, which will also prevent fraudulent claim for refund on e-tickets.

14. Preventive checks conducted in Onboard House Keeping Service contracts revealed that there was no system to monitor the usage of chemicals and attendance of contract staff upto the destination of train. Hence, it was suggested that separate register may be maintained both at the train originating and destination stations in order to record the men and material utilized in each trip with the signature of contract staff and Railway supervisory official before the departure and after the arrival of the train.

7. Vigilance Awareness Programmes :

1. On 28-4-2010, as a part of increasing the vigilance awareness amongst supervisors, a seminar was conducted on the topic of handling works contract and preparation of NS indents at Sr.DEE/RS/TBM. Apart from the supervisors, drawing office staff, clerks dealing with tenders at Sr.DEE/RS/TBM and the open line supervisors of Electrical General service department also participated in the seminar.

2. On 6-5-2010, as a part of increasing the vigilance awareness amongst supervisors, a seminar was conducted on the topic of handling works contract and preparation of NS indents at Sr.DEE/RS/AJJ. Apart from the supervisors, drawing office staff, clerks dealing with tenders at Sr.DEE/RS/AJJ and the open line supervisors of Electrical General service department also participated in the seminar.

3. A workshop was conducted on 14.07.2010 on the subject 'DAR' for the section officers of the Accounts Department dealing with DAR cases. The workshop was attended by a total number of 32 section officers of HQrs., CN, RE & MTP, Accounts Branch and was found to be beneficial to them.

4. Guest lectures on vigilance awareness were given on 30.7.10 & 20.08.10 by CVI/Engg. at S.Rly. Civil Engineering Training Centre, Tambaram, Chennai, for refresher courses for JE/SE/P.Way & works.

5. On 14.10.10, with a motive to guide the promoted ADENs /AXENs a vigilance workshop was also conducted in the Headquarters and GM inaugurated and addressed the officers. Lectures and case studies covering the areas / subjects like Personnel, Finance DAR, Enquiry, Stores, execution and billing were presented to instill confidence in the minds of officer for a commitment and re-dedication to the Rules / procedures.

6. On 22.10.10, Supervisors / JEs of P.way / Works / IOW have been addressed by Vigilance branch during their Refresher courses at SRCETC on the subject Dealing of contracts & avoiding arbitrations – Vigilance Views'.

7. Vigilance Awareness Week was observed in Southern Railway from 25th October to 1st November 2010.

Shri N. Vittal, former Central Vigilance Commissioner was the Chief Guest in the Seminar conducted on 25.10.2010 by the Vigilance department.

A special vigilance bulletin was released on this occasion, which contained useful guidelines for officers and staff.

In the Evening session, a lecture on '**Vigilance Awareness**' was given by Shri G.V. Reddy, Executive Director (Vigilance) Electrical, Railway Board. Shri Mangat Rai, AGM along with SAG & JAG officers from Division, Headquarters and vigilance officers attended the seminar. Further Seminars, Essay competitions, workshops, debates, etc. were also organized at all Divisions of Southern Railway, Zonal Training School, Central Training Institutes on topics related to Vigilance / Corruption.

8. In a seminar on topic related to vigilance & corruption, organized on 29.10.10 at Madurai Division, Shri C. Selvam, Dy.CVO/Engg./MAS addressed and explained how corruption not only affects the culprits but also his subordinates, his superiors and his relatives.

In a seminar conducted at Palghat Division, Shri K.V. Sunderasan, Sr.Vigilance Officer/Mechl./MAS spoke on the occasion. In his power point presentation, the Sr.VO explained how to generate awareness against corruption & gave wide spread awareness to public against corruption.

In Salem Division, an exclusive seminar for the supervisors and staff of Stores, Electrical & Engineering departments was organized. Shri Arindam Lai, Dy.CVO/Stores/MAS and Shri K.V. Sunderasan, Sr.VO/M/MAS with the team of vigilance inspectors gave a power point programme on Vigilance Awareness. Shri M. Velayudhan, Sr.VO/G/MAS also addressed the gathering.

At CWM/CW/PER, Smt. Bhuvaneshwari.K., Dy.CVO/Accts./MAS and Smt. Manisha Chatterjee, Dy.CVO/T/MAS attended as special invitees and addressed the gathering.

At COS/PER, the function was addressed by Shri Arindam Lai, Dy.CVO/S/MAS on vigilance guidelines.

Askit on Vigilance Awareness titled "**Breaking Point**" was staged at Palghat & Erode by the staff of Headquarters. Wide press coverage was also arranged for all these functions.

9. Refresher & Initial course on Vigilance Awareness for JEs / SEs of P.Way & works was conducted on 11.11.2010 at SRCETC/Tambaram.

10. On 17.12.10 "**Refresher course(Works)**" & "**Promotional course JE to SE (P.Way)**" on vigilance awareness was conducted on 17.12.2010 at SRCETC / Tambaram.

11. A workshop on "**Tenders & Contracts Management**" for Group 'B' officers up to Sr.Scale of Electrical, S&T, Mechanical & Accounts department who are dealing with tenders and contracts was conducted on 14.12.2010. GM/ Southern Railway inaugurated the workshop.

12. On 03.01.2011 a workshop was conducted at Tambaram on the topic '**Quality control and safety at worksite**'. The contractors and Railway Supervisors under the control of Dy.CE/CN/TBM participated in the programme.

13. On 11.01.2011, as a part of increasing the vigilance awareness amongst supervisors, a seminar was conducted on the topic of handling works contract and preparation of NS indents at TPJ division.

14. A Seminar for Front-line staff of Commercial Department was conducted on 20.01.2011 at S.Rly. Headquarters on the topic "**Vigilance Awareness**" comprising of Commercial Clerks, ECRCs and TTEs.

15. A programme on vigilance awareness was conducted on 04.02.2011 for JEs/SEs at TBM.

16. On 24.02.2011, a programme for mechanical supervisors of SR and SWR on the subject "**Vigilance awareness on works' contract**" was conducted by Dy.CVO/E/SR. About 30 staff took part.

17. Refresher course on Vigilance Awareness for JEs / Works and Apprentice PWIs / Draughtsman was conducted on 11.03.2011 at SRCETC / Tambaram.

18. On 30.03.2011, Dy.CVO/E conducted a training programme at TBM on '**General Conditions of Contract and Vigilance Awareness**' for SEs in which about 30 staff took part.

19. A lecture on "**Mudras for Health**" by Dr. John P.Nayagam, MBBS, MD, Ph.D. was organized at Chennai on 31st March 2011, which was attended by Addl. General Manager, PHODs and Vigilance Officers.

8. Vigilance Publications during 2010 – 11

A Special Vigilance Bulletin was published during vigilance awareness week incorporating important Railway Board's letters, case studies viz. irregularities in claim, irregularities in contracts and irregularities in accountal & delivery of scrap etc.

In addition, a vigilance bimonthly e-bulletin "**Chethna Chingari**" was also launched on railnet, which contains a wealth of information in disciplinary matters.

9 General Manager's Annual Inspection

General Manager Annual Inspection along with Principal Heads of Department during year April 2010 to March 2011.

Sl. No.	Dated	Division	Station from-to	Distance in Kms.	Gauge
1	5-1-2011	PGT	SRR-NIL	65.8	BG
2	8-2-2012	SA	DG-KKR	73.97	BG
3	18-2-2012	TPJ	TJ-NCR	84.57	BG
4	25-2-2011	MAS	MYP-TBM	127.30	BG
5	11-3-2011	MDU	TEN-VPT	113.38	BG
6	23-3-2011	TVC	KTYM-QLN	95.76	BG

The above details are furnished in connection with GM's Annual report for the year 2010-11.



II. PROGRESS OF HINDI

1. Organisation

A Separate Hindi Organisation is functioning under the direction of Mukhya Rajbhasha Adhikari. He is assisted by Dy. General Manager (Rajbhasha), Rajbhasha Adhikari, and other staff of Hindi Organisation spread over different units.

2. Training in Hindi

In order to implement official language policy of union of India, Southern Railway has been giving special attention in the training area. Since major part served by this Railway falls under Tamil Nadu, which is situated in 'C' region, time-bound training of all the employees is a challenging task. In order to speed up the training all the training programmes such as intensive course, regular classes, correspondence, Private study courses and part time classes are fully utilised in order to get more and more staff trained. Wide publicity of all the incentive schemes and awards for passing Hindi exams have also been given, so that more and more staff take advantage of all the training facilities.

Training programme has been made more attractive through multimedia kits. To speed up the training programme fast track module has been developed to impart training to the open line staff. During the year 2010-11 a total of 1,037 employees have been trained in Hindi under various training programmes.

3. Conversational Training

To give training to frontline staff who come in contact with the public, conversational training is being imparted. During the year 2010-11, 234 employees have been trained in Hindi Conversation Course.

4. Hindi Type Writing and Hindi Stenography

Hindi Typing and Hindi Stenography training is imparted through Hindi Teaching Scheme, Ministry of Home Affairs. Staff are given training in Hindi Computer Keyboard also. 3,650 employees have been trained till now in Hindi Keyboard and they are typing out small templates in Hindi. In Southern Railway 2,329 dictations were given in Hindi also by the Officers during the year under review.

Hindi Workshop.—During the year 2010-11, 25 Hindi Workshops were conducted all over S.Rly and 7 officers and 743 Employees were trained in the workshop.

5. Computerisation in Hindi

There are 2,762 Computers in Southern Railway and all of them have bilingual facility. Southern Railway website www.southernrailway.org & www.srailway.com have been made bilingual and important templates and annual programme have been uploaded on this site. Information regarding passenger amenities is also available in two languages i.e., English and Hindi. Besides, a separate page for HINDI is opened in the Internet. Learn a word a day, competition results and other activities of Hindi are uploaded in the internet from time-to-time

6. Section 3 (3) of OL Act.

Documents coming under section 3(3) of the OL Act 1963 are to be issued in bilingual form. Southern Railway has achieved 99.66% (31-03-11) compliance during the year under review. All reports submitted to various Parliamentary Committees visiting this Railway have been prepared in Hindi-English bilingual form. All invitations for various functions have been printed in Hindi & English.

7. Implementation

OFFICIAL LANGUAGE IMPLEMENTATION COMMITTEE (OLIC)

To review the progress of Hindi at different levels 88 OLIC's are functioning in this Railway. Quarterly Meetings of these committees are conducted regularly.

8. Shield

Rajbhasha shield is awarded to the best performing division and workshop with regard to implementing various aspects of Official Language. A part from this Inter-branch Rolling Shield is being awarded to the Branch of HQRS who is doing maximum usage of Hindi in their work every year. During the year under review, I, II & III Prize of the Inter - branch Rolling Shield was bagged by Security Department, Operating and Stores Department respectively.

9. Use of Hindi in Public Address Systems

A Computerised digital announcement system has been installed at important stations & trilingual announcements are made in this stations.

10. Inspections made by Officers

Officers are requested during the ZOLJC/OLIC meetings to inspect implementation of Hindi also during their routine inspections. Check list of items pertaining to OL Inspections has been provided to all the officers. During the year under review, in 2,593 inspections OL aspect has also been done.

11. Preparation of Charts/Drawings in Hindi

Headings and sub-headings of Drawings of Engineering, Mechanical, Signal & Electrical branches of HQRS & Divisions are being prepared in Hindi also either manually or through computers on AUTO-CAD.

12. Original Work in HindiNoting in Hindi

Employees have used Hindi in their routine notings every quarter

Entries in Registers/Diaries

Entries in Hindi are made in registers as far as possible

13. Use of Railnet

Reports such as Quarterly Progress Report and Half -yearly Progress Report are being sent to Railway Board through Railnet.

14. Usage of Templates

Routine types of letters have been translated into Hindi and loaded in the computer of concerned branches in bilingual form with a view to increase the usage of Hindi in correspondence.

15. Hindi Magazine

House Magazines in Hindi are published by all the Divisions and Headquarters Office.

16. Hindi Library

To increase the Hindi knowledge of officers and employees, 64 Hindi Libraries are functioning in this Railway. A total number of 106 Hindi books were purchased during the year under review for Headquarters.



III. FINANCIAL RESULTS

Financial Results of Working

Financial Results of working for the year 2010-2011 compared with 2009-10 :—

(Rupees in lakhs)			
Particulars	Actuals 2009-10	Actuals 2010-2011	
1. (a) Capital-at charge	5,65,653	6,80,379	
(b) Investment from Capital Fund	3,21,113	3,43,876	
2. (a) Gross Traffic Earnings ..	4,45,690	4,79,027	
(b) Suspense	(-)887	483	
(c) Gross Traffic Receipts ..	4,44,803	4,79,510	
3. (a) Ordinary Working Expenses..	4,79,727	4,82,047	
(b) Suspense	1,281	(-)2,524	
(c) Ordinary Working Expenses..	4,81,008	4,79,523	
(incl. susp.)			
4. Appropriation to D. R. F. ..	17,675	45,000	
5. Appropriation to Pension Fund ..	1,15,270	1,22,262	
6. Payment to worked lines ..	—	—	
7. Total working Expenses ..	6,13,953	6,46,785	
8. Net Traffic Receipts ..	(-)1,69,150	(-)1,67,275	
9. Net Miscellaneous Receipts ..	(-)42	(-)160	
10. Net Revenue	(-)1,69,192	(-)1,67,435	

(Rupees in lakhs)			
Particulars	Actuals 2009-2010	Actuals 2010-2011	
11. Payment to General Revenues— Subsidy from General Revenue towards Divident Relief and other concessions.	29,948	24,439	
12. Surplus/Shortfall ..	(-)1,99,140	(-)1,91,874	
13. Operating Ratio ..	137.47	135.55	
14. Percentage of Net Revenue to Capital-at-charge and Investment from Capital Fund.	(-) 19.08	(-) 16.35	

2. Traffic receipts

The details of Revenue Receipts for 2009-10 and 2010-11 :—

(Figures in lakhs of ₹)				
Heads of Traffic	2009-10	2010-11	Variation	
Passenger ..	2,15,461	2,31,769	16,308	
Other Coaching ..	22,354	25,771	3,417	
Goods	1,88,677	1,95,291	6,614	
Sundries	19,198	26,197	6,999	
Suspense	(-) 887	483	1,370	
Gross Earnings ..	4,44,803	4,79,511	34,708	

3. Coaching Earnings

(a) Passenger Earning under important Heads During 2010-2011 compared with 2009-2010 on Central Railway Pattern.

Particulars	Traffic Earnings		Difference		Percentage of Variation		
	2009-2010		2010-2011				
	Number of pass. Earnings (in thousands)	(in lakhs)	Number of pass. Earnings (in thousands)	(in lakhs)	Number of pass. Earnings (in thousands)	(in lakhs)	Number of pass. Earnings (in thousands)
A. Non-Suburban							
Air-conditioned First Class	220	1,454	260	1,660	40	206	18.18
Air-conditioned 2-Tier	2,672	9,441	3,029	9,669	357	228	13.36
Air-conditioned 3-Tier	7,419	18,392	8,332	19,942	913	1,550	12.31
A. C. Chair Car ..	1,865	4,103	2,131	4,600	266	497	14.26
First Class—							
(a) Mail/Express ..	310	1,312	342	1,421	32	109	10.32
(b) Ordinary ..	724	195	860	244	136	49	18.78
Total ..	1,034	1,507	1,202	1,665	168	158	—
Second Class Sleeper—							
(a) Mail/Express ..	45,435	41,434	50,066	46,718	4,631	5,284	10.19
(b) Ordinary ..	457	275	450	272	(-) 7	(-) 3	(-) 1.53
Second Class Ordinary—							
(a) Mail/Express ..	1,00,427	58,767	1,02,412	57,670	1,985	(-) 1,097	1.98
(b) Ordinary ..	2,20,765	68,498	2,64,142	74,544	43,377	6,046	19.65
Total Non-Suburban ..	3,80,294	2,03,871	4,32,024	2,16,740	51,730	12,869	13.60
B. Suburban							
First Class (Ordinary)	44	20	53	23	9	3	20.45
First Class (Season)	7,277	548	8,039	618	762	70	10.47
Second Class (Ordinary)	1,46,573	7,008	1,38,864	10,468	(-) 7,709	3,460	(-) 5.26
Second Class (Season)	2,04,148	4,014	2,09,422	3,920	5,274	(-) 94	2.58
Total Suburban	3,58,042	11,590	3,56,378	15,029	(-) 1,664	3,439	(-) 0.46
Grand Total	7,38,336	2,15,461	7,88,402	2,31,769	50,066	16,308	6.78

(b) Goods earnings under important heads during 2010-2011 compared with 2009-2010 on Central Railway pattern—

	Tonnes carried-on System		Earnings	
Sl. No.	Particulars	(in millions)	(₹ in lakhs)	
	2009-2010	2010-2011	2009-2010	2010-2011
A. Revenue Earnings Traffic:--				
1. Products of Agriculture	8.838	8.549	31,399	32,733
2. Animals & Products of Animals.	0.000	0.000	0	0
3. Products of Mines ..	33.946	27.477	76,968	71,176
4. Mineral Oil ..	4.701	3.812	15,578	14,300
5. Products of Forests ..	0.121	0.174	289	438
6. Manufactures ..	11.810	12.430	36,161	42,987
7. Miscellaneous ..	7.946	9.455	16,928	25,319
8. Total Revenue traffic..	67.362	61.897	1,77,323	1,86,953

B. Non-Revenue Traffic

9. Railway Coal:—					
(a) For Home Line	0.000	0.000	0.00	0.00	
(b) For Other Govt. Rlys.etc.	0.000	0.000	0.00	0.00	
(c) Diesel oil booked by Companies for Rlys.	0.000	0.000	0.00	0.00	
10. General Stores and Materials for Rlys.---					
(a) For Home Line	0.444	0.394	0.00	0.00	
(b) For other Govt Rlys., etc.	0.000	0.000	0.00	0.00	
11. Total Non-Revenue	0.444	0.394	0.00	0.00	
12. Grand Total Revenue and Non-Revenue	67.806	62.291	1,77,323	1,86,953	

(c) Other Coaching Earnings under important heads during 2010-2011 compared with 2009-2010 on Central Railway Pattern :—

Particulars	(Figures in lakhs)		
	2009-2010	2010-2011	Variation
1. Special Trains and reserved carriages(Public)	594	501	(-) 93
2. Special Trains and reserved carriages(Military)	730	1,372	642
3. Luggage collected at stations	491	557	66
4. Luggage collected by special ticket checking staff.	380	362	(-) 18
5. Public Parcels	11,718	13,407	1,689
6. Transport of Mail	1,913	2,071	158
7. Service Parcels	0.00	0	0.00
8. Miscellaneous	6,589	7,510	921
Total	22,415	25,780	3,365
Less Refunds	61	9	(-) 52
Net Other Coaching Earnings	22,354	25,771	3,417
Total Coaching Earnings	2,37,815	2,57,540	19,725

4. Ordinary Working Expenses**Appropriation Accounts for 2010-2011—Statement showing percentage of Working Expenses to Earnings for the year 2010-2011 :—**

Name of the Railway	Percentage of Working Expenses to Earnings
Southern Railway	135.55

1. The Operating ratio for 2010-2011 is 135.55% is 1.92 points more than the Operating ratio of 2009-2010. (137.47%).

(a) The Gross Earnings for 2010-11 is ₹ 4,790.27 crores as against ₹ 4,456.90 crores for 2009-2010 with an increase of ₹ 333.37crores (7.48%).

(b) The Ordinary Working Expenses for 2010-2011 in respect of Grant No. 3 to 13 are more by ₹ 23.20 crores (0.48%).

(c) Appropriation to DRF has increased by ₹ 273.25 crores (154.60%) and Appropriation to Pension Fund has increased by ₹ 69.92 crores (6.07%) during 2010-2011.

(d) The Total Working Expenses for 2010-2011 including Appropriation to DRF and Pension Fund is ₹ 6,493.09 crores (excluding suspense) as against ₹ 6,126.72 crores for 2009-2010 with an increase of ₹ 366.37 crores (5.98%).

II Earnings.—Analysis of variation over actuals of 2010-2011.

(a) **Passengers :—**The increase under Passenger Earnings is ₹ 163.08 crores which works out to 7.56% over the previous year. The break-up for the increase is as follows :—

(Figures in crores of ₹)		
Increase in fares	..	24.89
Increase in traffic	..	138.19
Total	..	163.08

(b) **Other Coaching.**—The increase under Passenger Earnings is ₹ 34.17crores which amounts to 15.28% over the previous year. The details for the increase is as follows :—

(Figures in crores of Rs.)		
(i) Increase in Parcels	..	16.94
(ii) Increase in Luggage	..	4.18
(iii) Increase Under Military	..	5.74
(iv) Increase in Postal Bills	..	1.62
(v) Increase in Others	..	5.69
Total	..	34.17

(c) **Goods Traffic :—**The increase of ₹ 66.14 crores over the last year amounts to (-) 3.51%. This is mainly due to :—

(Figures in crores of ₹)		
(i) Increase in Rates	..	115.09
(ii) Decrease in Traffic	..	(-) 63.65
(iii) Increase in Miscellaneous Earnings	..	14.70
Total	..	66.14

(d) **Sundries :—**The increase of ₹ 69.98 crores over the previous year amounts to 36.45%. This can be mainly attributed to:—

(Figures in crores of ₹)		
(i) Increase under Demands Recoverable	..	22.27
(ii) Increase in Catering Earnings	..	0.73
(iii) Increase in Others	..	47.17
(iv) Decrease in Rent	..	(-) 0.19
Total	..	69.98

III. Working Expenses.—Analysis of variation over 2009-2010.

Increase under Ordinary working Expenses covered by Grants 3 to 12 on Gross basis (Voted) excluding suspense amounts to ₹ 3,763.80 lakhs, which amounts to 0.77% more than that of the previous year. The reasons for the variations are dealt by PU wise :—

(Figures in thousands of ₹)		
(1) Salaries and Wages (PU-01)—		
Due to payment of 60% arrears and in 2009-2010.		(-) 41,07,050
(2) Dearness Allowance (PU -02)—		
Due to payment of arrears and hike w.e.f. January & July 2010.		23,70,879

(3) <i>Productivity Linked Bonus (PU -03) —</i>	
Payments of arrears in 2009-10	(-) 12,300
(4) <i>House Rent Allowance (PU -04) —</i>	
Due to implementation of MACP orders	79,512
(5) <i>Transport Allowance (PU -07) —</i>	
Due to implementation of MACP orders	1,47,508
(6) <i>Wages of Casual Labour (PU -09) —</i>	
Trivial.	(-) 29
(7) <i>Kilometre Allowance (PU -10)</i>	
Minor variation	2,051
(8) <i>Over time Allowance (PU -11)</i>	
Revision of OTA rates and subsequent payment of arrears.	2,73,440
(9) <i>Night Duty Allowance (PU -12) —</i>	
Due to enhancement in rates and payment of arrears.	48,908
(10) <i>Other Allowance (PU -13) —</i>	
Minor variation	(-) 4,675
(11) <i>Fees and Honoraria (PU -14) —</i>	
Payment of more honorarium for conduit of examination.	3,966
(12) <i>Transfer Allowance (PU -15) —</i>	
Revision of the rates on the higher side on account of VI PC.	9,843
(13) <i>Travelling Allowance (PU -16) —</i>	
Due to austerity measures	(-) 18,493
(14) <i>Leave encashment during service (PU20) —</i>	
Due to less applications for the payment	(-) 34,737
(15) <i>Children Education Allowance (PU-25)</i>	
Due to increase in number of applicants	91,750
(16) <i>Contingencies (PU-18 to 24)</i>	
Due to austerity measures	(-) 8,169
(17) <i>Drawal from Stores (PU-27)</i>	
Less due to decrease in activities	(-) 53,716
More drawals on track renewals	15,709
More drawals on maintenance of locos, carriage, wagons and T & P equipments.	1,20,964
More drawals of stores for Station operations	1,513
More drawal due to fuel consumption	4,44,266
More drawals of stores for staff quarters,	1,875
Total	5,30,611

(18) <i>Cost of materials - Direct Purchase (PU-28)</i>	
Less due to decrease in activities	(-) 24,369
More purchase of material for Traffic operations in locos and trains & fuelling points and stations.	39,166
More purchase towards medicines	1,10,153
More purchase of material towards wagon and plant and equipment maintenance.	19,335
Total	1,44,285
(19) <i>Fuel for other than traction (PU-31)</i>	
More consumption of fuel for generators in Rajdhani Exp. for AC and vehicle.	11,957
(20) <i>Contractual Payments (PU-32)</i>	
More contractual payment for maintenance of locos, carriage, wagons and T & P equipment.	48,456
More consumption of Electrical Energy traction purpose.	1,10,997
Other Minor activity	2,314
More contractual obligation for Permanent Way activity and general superintendence.	1,18,607
More consumption of Electrical Energy for other than traction purpose.	80,926
More contractual obligation for maintenance of Railway quarters.	31,828
More contractual under station cleaning and supply of bed rolls.	64,103
Less due to decrease in activities	(-) 2,918
Total	4,54,313
(21) <i>Transfer of Debits/ Credits from other Units (PU-33)</i>	
More debit under permanent Way & general superintendence.	38,034
More POH debits for wagons	93,443
Less EE Charges for Train lighting	(-) 45,749
Less inward debits towards POH of locos	(-) 17,553
More Debits under IRFC lease charges & IRCA	2,47,163
More credits realised towards track machines maintenance.	(-) 23,605
More EE charges for Rly. Qrs.	10,563
Less inward debits towards fuel for traction	(-) 28,854
Due to more debits towards RPSF	38,712
Minor factor	0
Total	3,12,154
(22) <i>Adjustment of 'Wages' on POH (PU-34)</i>	
Decrease in activities in repairs of locomotives- DSL & Electrical.	(-) 53,693
Decrease in activities in repairs of Carriage & Wagons.	(-) 1,73,109
Decrease in activities in repairs to Plant & equipment.	(-) 13,244
Minor factor	(-) 169
Total	2,40,215

(23) Adjustment of 'Materials' on POH (PU-35)

Increase in activities in repairs of locomotives DSL & Electrical. 2,681

Increase in activities in repairs of Carriage & Wagons. (-) 2,06,983

Decrease in activities in repairs to Plant & equipments (-) 6,786

Minor factor (-) 114

Total (-) 2,11,202

(24) Excise Duty (PU-36)

More payments for more consumption of HSD oil. 1,67,154

Minor factor 50

Total 1,67,204

(25) Customs Duty (PU-37)

No incidence of expenditure (-) 1,243

(26) Sales Tax (PU-38)

More payments for more consumption of HSD oil. 2,11,743

Minor factor (-) 690

Total 2,11,053

(27) Air Travel-Domestic (PU-39)

More incidence of expenditure 1,096

(28) Air Travel-Foreign (PU-40)

Nil 0

(29) VAT (PU-41)

More tax paid in lieu of Sales tax 6,296

(30) Cost of Computers -Hardware/System (PU-50)

Due to more procurement of PC by departments 2,892

(31) Computer Consumables (PU-51)

Variation trivial 334

(32) Other Miscellaneous (PU-99)

Less due to non-conduct of examination by RRC (-) 11,119

More due to Permanent Way charges 10,296

Less amount received towards damages to Wagons from Port Trust. 11,450

Less rental charges to P & T 58,009

Lesser payment made to DSL locomotive operations and EMU. (-) 2,588

More maintenance charges of stations 7,788

including sanitation and train operations.

More due to reimbursement of Medical expenditure 38,355

More payment towards cost of order 30,102

police and freight charges.

Minor factor 2,148

Total 1,44,441

Percentage of working expenses to earnings for the year 2010-11

Summary

Sl. No. (Figures in thousands of ₹)

1. More to working expenses (Demand 3 to 12) 3,76,380

2. More under DRF 27,32,507

3. More under Pension Fund 6,99,212

4. Less under charged (3 to 12) (-) 2,457

5. More credits Realised (3 to 12) (-) 1,98,056

6. More under PF, Pension & Other Retirement. 56,120

Total 36,63,706

IV. Appropriation accounts 2010-2011-Percentage of Working expenses to earnings—

(In lakhs of ₹)

	Budget Estimate 2010-11	Revised Estimate 2010-11	Actuals 2010-11	Actuals 2009-10	Actuals 2008-09
1. (a) Capital-at-charge	6,62,048	6,90,984	6,80,379	5,65,653	4,64,765
2. Investment from Capital Fund	3,56,414	3,56,647	3,43,676	3,21,113	3,14,540
3. Earnings—					
(a) Passenger	2,56,290	2,38,600	2,31,769	2,15,461	2,07,349
(b) Other Coaching	28,715	26,000	25,771	22,354	20,839
(c) Goods	2,23,718	1,98,000	1,95,291	1,88,677	1,89,569
(d) Sundries	21,466	21,985	26,196	19,198	14,648
(e) Total Gross Earnings	5,30,189	4,84,585	4,79,027	4,45,690	4,32,405
(f) Traffic Suspense and demands recoverable.	400	400	483	(-) 887	(-) 968
(g) Gross traffic receipts	5,30,589	4,84,985	4,79,510	4,44,803	4,31,437
4. Working Expenses—					
(a) Ordinary working Expenses	4,87,381	4,75,907	4,82,047	4,79,727	4,06,126
(b) Appropriation to DRF	61,951	46,500	45,000	17,675	56,782
(c) Appropriation to Pension Fund.	1,12,062	1,12,062	1,22,262	1,15,270	82,195
(d) Suspense	(-) 1,828	(-) 2,032	(-) 2,524	1,281	(-) 292
(e) Total working Expenses.	6,59,566	6,32,437	6,46,785	6,13,953	5,44,811
5. Net Traffic Receipts 3(g)-4(e)(-)	1,28,977	1,47,452	1,67,275	1,69,150	1,13,374
6. (a) Miscellaneous Receipts	152	187	215	197	113
(b) Miscellaneous Payments	436	576	375	239	346
(c) Net Miscellaneous Receipt.	(-) 284	(-) 389	(-) 160	(-) 42	(-) 233
7. Net Revenue 5+6 (c)	(-) 1,29,261	(-) 1,47,841	(-) 1,67,435	1,69,192	1,13,607
8. (a) Payment to General Revenue	43,098	32,433	32,132	35,786	31,155
9. Subsidy from G. R. towards dividend relief & other concessions.	9,708	7,853	7,693	5,838	3,332
10. Surplus (+)/Deficit(-)	(-) 1,62,651	(-) 1,72,421	(-) 1,91,874	1,99,140	(-) 1,41,430
11. Percentage of working expenses to Gross Earnings	124.75	130.93	135.55	137.47	126.06

(ii) Details of Working Expenses.—Abstract wise/Demand wise
(In thousands of ₹)

De-mand No.	Abstract	Particulars	2009-2010	2010-2011
(3)	A	General Superintendence and Services	40,07,730	37,79,175
(4)	B	Repairs and Maintenance of Permanent Way and Works.	49,27,344	48,76,226
(5)	C	Repairs and Maintenance of Motive Power	24,72,085	23,15,384
(6)	D	Repairs and Maintenance of Carriage and Wagon.	69,04,402	64,93,580
(7)	E	Repairs and Maintenance of Plant and Equipment.	28,18,337	28,50,698
(8)	F	Operating Expenses—Rolling Stock & Equipment.	41,24,478	40,61,380
(9)	G	Operating Expenses—Traffic..	83,86,785	82,85,869
(10)	H	Operating Expenses—Fuel	93,53,211	1,02,54,533
(11)	J	Staff Welfare and Amenities ..	27,44,272	29,91,425
(12)	K	Miscellaneous working expenses	20,02,261	20,08,504
(13)	L	Net Provident Fund, Pension and other Retirement Benefits.	2,31,764	2,87,884
		Total	44,79,72,669	4,82,04,657

Suspense—

(12) N. Demands Payable (DR.) (-) 2,62,888 (-) 3,83,820

(12) N. Miscellaneous Advances Revenue (-) 3,90,976 (-) 1,31,431

(iii) The particulars of additional investment on the Line Capacity Works and Traffic Facility Works during the year 2010-2011 as compared to the previous year 2009-2010 are furnished below:—

A statement showing plan-head wise expenditure break-up for the above is also enclosed.

(Net figures in thousands of ₹)

	2009-2010	2010-2011
(1) Capital	80,67,350	79,07,702
(2) D. R. F.	(-) 2,56,632	(-) 6,47,785
(3) D. F.	2,05,248	1,54,804
(4) Capital Fund	37,822	0
(5) O. L. W. R.	2,707	(-) 203
Total	80,56,495	74,14,518

Plan headwise expenditure breakup

(Net figures in thousand of ₹)

2009-2010	Capital	DRF	DF	Cap. Fund	OLWR	RSF	SRSF	Total
Gauge Conversion	48,91,786	(-)1,91,551	0	0	0	0	0	47,00,235
Doubling ..	30,42,024	(-) 53,095	0	0	0	0	0	29,88,929
Tfc. Facilities ..	1,33,540	(-)11,986	2,05,248	37,822	2,707	0	0	3,67,331
Total ..	80,67,350	(-)2,56,632	2,05,248	37,822	2,707	0	0	80,56,495

2009-2010	Capital	DRF	DF	Cap. Fund	OLWR	RSF	SRSF	Total
Gauge Conversion	57,52,531	(-)7,24,398	0	0	0	0	0	50,28,133
Doubling ..	21,31,144	86,777	0	0	0	0	0	22,17,921
Tfc. Facilities ..	24,027	(-)10,164	1,54,804	0	(-) 203	0	0	1,68,464
Total ..	79,07,702	(-)6,47,785	1,54,804	0	(-) 203	0	0	74,14,518

5. Capital

Statement showing the Capital-at-charge at the end of 31st March 2011 compared with 31st March 2010 is furnished below. The capital-at-charge of this Railway stood at ₹. 6,80,794 lakhs at the end of 31st March, 2011 as against ₹. 5,65,653 lakhs at the end of 31st March 2010 :—

6. Assets and Liabilities —

(a) Profit and Loss Account for the year 2010-2011 compared with 2009-2010—

(Figures in thousands of ₹)

Particulars	2009-2010	2010-2011	Particulars	2009-2010	2010-2011
I. To Working Expenses—			(i) By Earnings —		
A-3 General Superintendence & services..	40,07,730	37,79,175	Gross Traffic Receipts		
B-4 Repairs and Maintenance of Permanent Way and Works.	49,27,344	48,76,226	Passenger Earnings.. .. .	2,15,46,117	2,31,76,861
C-5 Repairs and Maintenance of Motive Power	24,72,085	23,15,384	Other Coaching Earnings	22,35,360	25,77,111
D-6 Repairs and Maintenance of Carriage and Wagons.	69,04,402	64,93,580	Goods Earnings	1,88,67,723	1,95,29,100
E-7 Repairs and Maintenance of Plant and equipment.	28,18,337	28,50,698	Others	19,19,767	26,19,652
F-8 Operating Expenses—Rolling Stock and equipment.	41,24,478	40,61,380	Suspense	88,627	(-) 59,562
G-9 Operating Expenses—Traffic ..	83,86,785	82,85,869			
H.10 Operating Expenses—Fuel.. ..	93,53,211	1,02,54,533	(ii) Miscellaneous receipts including receipts from Surcharge on Passenger Tickets.	20,879	24,438
J.11. Staff Welfare and Amenities.. ..	27,44,272	29,91,425			
K.12 Miscellaneous Working Expenses ..	20,02,261	20,08,504	(iii) Subsidy from General Revenues towards Dividend.	5,83,833	7,69,276
N.12.Suspense	1,28,088	(-) 2,52,389			
L.13. Provident Fund, Pension and other Retirement Benefits.	2,31,764	2,87,884	(iv) Gross Loss.. .. .	1,65,77,686	1,65,50,466
Appropriation to D. R. F.	17,67,493	45,00,000			
Appropriation to Pension Fund	1,15,26,999	1,22,26,211			
II. Payment to Worked Lines.					
III. Miscellaneous Expenditure—					
Survey	6,415	5,670			
Open line works (Revenue)	17,500	31,833			
Audit	1,37,191	1,26,284			
Government Inspection	0	0			
Cost of Railway Board	2,30,365	2,76,015			
Railway Recruitment Board	53,272	69,060			
Miscellaneous charges	0	0			
Total	6,18,39,992	6,51,87,342			
To Gross Loss	1,65,77,686	1,65,50,466			
Payment to Dividend to General Revenue	35,78,618	32,13,189	Total	6,18,39,992	6,51,87,342
Grand Total	2,01,56,304	1,97,63,655	Net & Loss	2,01,56,304	1,97,63,655

(b) Statement of Assets and Liabilities as on 31st March 2011, 2010 & 2009 in the form of Block Account—

				(Figures in lakhs of ₹)			
Liabilities	As on 31st March			Assets As on 31st March	2009	2010	2011
	2009	2010	2011				
I. (a) Investment Financed from—							
(i) Loan Capital Advance by General Exchequer.	4,64,765	5,65,653	6,80,794	1. Cash in Hand ..	7,312	9,253	9,924
(ii) Depreciation Reserve Fund	2,79,593	3,20,254	3,54,285	2. Block Account (Contra item 1)	12,99,350	14,87,120	16,84,630
(iii) Development Fund	1,13,444	1,31,646	1,44,355	3. Funds with Central Government (Contra item 2 & 3)	(-) 4,91,745	(-) 6,37,155	(-) 6,95,323
(iv) Capital Fund	3,14,540	3,33,818	3,56,581	4. Miscellaneous Advance—Sundry Debtors (to be recovered or adjusted).	19,423	23,060	23,611
(v) Open Line Works Revenue	8,763	8,932	9,219	5. Traffic Earnings (yet to be realised at the end of the year).	2,199	2,964	2,788
(vi) Railway Safety Fund	25,909	34,481	47,060	6. Items awaited adjustment with Civil Department, State Government, etc.	262	254	252
(vii) Special Railway Safety Fund	92,328	92,328	92,328				
(b) Machinery and Equipment free of cost.	8	8	8				
	12,99,350	14,87,120	16,84,630				
2. Railway Reserve Fund—							
(i) Depreciation Reserve Fund	1,69,700	1,57,130	1,82,272				
(ii) Railway Revenue Reserve Fund	0	0	0				
(iii) Development Fund	(-)1,16,974	(-)1,36,226	(-)1,50,094				
(iv) Capital Fund	(-)3,01,835	(-)3,21,113	(-)3,43,876				
(v) Pension Fund	(-)3,01,364	(-)3,85,500	(-)4,45,225				
(vi) Railway Safety Fund	(-) 25,315	(-)33,887	(-)46,569				
(vii) Special Railway Safety Fund	(-) 43,732	(-)43,732	(-)43,752				
	(-)6,19,520	(-)7,63,328	(-)8,47,224				
3. Bank Account (Sundry Creditors)—							
(i) Provident Fund and other funds	64,361	78,433	87,579				
(ii) Miscellaneous Deposits	63,414	47,740	64,322				
	1,27,775	(-)1,26,173	(-)1,51,901				
4. Demands Payable (i. e.) liabilities remaining undischarged at the end.	14,718	17,347	21,185				
5. Net Liabilities arising out of inter-departmental transactions.	14,478	18,184	15,390				
Total ..	8,36,801	8,85,496	10,25,882	Total ..	8,36,801	8,85,496	10,25,882

7. Statement of Capital assets at the end of March 2010 and March 2011 is given below—

(Figures in thousands of ₹)		
	Capital at charge as on 31st March 2010	Capital at charge as on 31st March 2011
11. New Line Construction ..	1,04,47,682	1,29,03,290
12. Purchase of New line ..	1,31,779	1,31,779
13. Restoration of dismantled line	(-) 89	(-) 89
14. Gauge conversion ..	1,91,64,410	2,49,38,305
15. Doubling ..	1,22,97,857	1,44,31,881
16. Traffic facilities & Yard remodelling	14,20,069	14,44,103
17. Computerisation ..	6,455	6,510
20. Rolling Stock ..	88,30,362	98,69,600
21. Road Over Bridge ..	10,973	10,973
31. Track Renewals ..	(-) 1,749	(-) 1,749
32. Bridge Works ..	8,812	8,812
33. Signalling & Tele-com. Works	1,20,377	1,21,189
34. Taking over line wire from P. & T.	(-) 2,316	(-) 2,316
35. Electrification Project ..	15,96,144	15,96,144
36. Other Electrical Works ..	1,84,655	1,93,495
41. Machinery and Plant ..	1,94,064	2,45,031
42. Workshop including production units	15,35,889	16,99,203
51. Staff Quarters..	5,42,401	5,59,580
52. Amenity for Staff ..	64,890	64,830
53. (i) Passenger Amenities	5,042	5,042
(ii) Other Railway users' Amenities.	(-) 100	(-) 100
62. Investment in Government/Commercial undertaking - Public services.		
64. Other specified works ..	81,286	83,890
71. Suspense ..	8,80,490	7,51,693
Deduct Receipt on Capital Account	9,54,062	9,81,677
Total Capital at charge	5,65,65,321	6,80,79,419

8. The Position of the funds maintained by the Southern Railway for 2010-2011 is indicated below—

(Figures in thousands of ₹)				
Nature of Fund Accounts	Opening balance as on 1st April 2010	Appropriation during the year 2010-2011 Including Interest and transfers without financial adjustment		Balance as on 31st March 2011
		Actual Expenditure	Withdrawal from the fund	
1. Depreciation Reserve Fund.	1,57,13,014	53,28,809	28,14,607	1,82,27,216
2. Pension Fund	(-) 3,85,50,005	1,01,52,390	1,61,24,923	(-) 4,45,22,537

9. The sources of funds from which expenditure on works met during the year 2009-2010 and 2010-2011.

(Figures are Net and in thousands of Rupees)		
	2009-2010	2010-2011
1. Capital (including Transfers without Financial Adjustment)	1,00,88,851	1,15,14,098
2. Depreciation Reserve Fund ..	40,93,587	28,14,608
3. Development Fund * ..	19,25,249	13,86,804
4. Railway Safety Fund ..	8,57,177	12,68,263
5. Special Railway Safety Fund ..	0	0
6. Open Line Works—Revenue ..	17,500	31,833
7. Capital Fund ..	19,27,722	22,76,300
Total	1,89,10,086	1,92,91,905
* Inclusive of Expenditure towards—		
	2009-2010	2010-2011
(i) Safety Works D.F. IV ..	2,22,353	1,45,006
(ii) Passenger Amenities Works ..	8,07,332	6,19,019

10. Statement showing the expenditure—Plan head-wise for the year 2010–2011

(Figures in thousands of ₹)

Sl. No.	Plan Head	Capital		DRF		D F		Capital Fund		R.S.F.		S.R.S.F.		OLWR		Total	
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1.	New Lines (Construction)	Gross 21,29,587	3,26,020	-	-	-	-	-	-	-	-	-	-	-	-	21,29,587	3,26,020
(11)		Credit 3,153	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,831
		Net 21,26,434	3,26,020	-	-	-	-	-	-	-	-	-	-	-	-	-	21,25,756 3,26,020
2.	Purchase New Lines	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(12)		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.	Gauge Conversion	Gross 57,62,674	11,222	1,08,254	-	-	-	-	-	-	-	-	-	-	-	58,70,928	11,222
(14)		Credit 21,364	-	8,32,652	-	-	-	-	-	-	-	-	-	-	-	8,54,016	-
		Net 57,41,310	11,222	(-),724,398	-	-	-	-	-	-	-	-	-	-	-	50,16,912	11,222
4.	Doubling	Gross 20,60,369	73,655	2,59,591	-	-	-	-	-	-	-	-	-	-	-	23,19,950	73,655
(15)		Credit 2,881	-	1,72,814	-	-	-	-	-	-	-	-	-	-	-	1,75,695	-
		Net 20,57,488	73,655	86,777	-	-	-	-	-	-	-	-	-	-	-	21,44,265	73,655
5.	Traffic Facilities	Gross 24,034	-	2,803	-	1,55,598	-	-	-	-	-	-	-	(-),204	-	1,82,231	-
(16)		Credit 7	-	12,967	-	793	-	-	-	-	-	-	-	-	-	13,767	-
		Net 24,027	-	(-),10,164	-	1,54,805	-	-	-	-	-	-	-	(-),204	-	1,68,464	-
6.	Computerisation	Gross 55	-	5,429	-	57,008	-	-	-	-	-	-	-	11,922	-	74,414	-
(17)		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net 55	-	5,429	-	57,008	-	-	-	-	-	-	-	3,122	-	74,414	-
7.	Railway Research Works	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(18)		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.	Rolling Stock	Gross 10,18,473	-	13,20,947	-	24,027	-	-	-	-	-	-	-	-	-	23,63,447	-
(21)		Credit	-	2,10,976	-	-	-	-	-	-	-	-	-	-	-	2,10,976	-
		Net 10,18,473	-	11,09,971	-	24,027	-	-	-	-	-	-	-	-	-	21,52,471	-
(i)	Locomotives	Gross 11,964	-	3,31,151	-	-	-	-	-	-	-	-	-	-	-	3,43,115	-
		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net 11,964	-	3,31,151	-	-	-	-	-	-	-	-	-	-	-	3,43,115	-
(ii)	Loco Spares	Gross 79,042	-	2,72,866	-	-	-	-	-	-	-	-	-	-	-	3,51,908	-
		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net 79,042	-	2,72,866	-	-	-	-	-	-	-	-	-	-	-	3,51,908	-
(iii)	Carriages	Gross 10,53,637	-	2,93,373	-	23,903	-	-	-	-	-	-	-	-	-	13,70,913	-
		Credit	-	67,431	-	-	-	-	-	-	-	-	-	-	-	67,431	-
		Net 10,53,637	-	2,25,942	-	23,903	-	-	-	-	-	-	-	-	-	13,03,482	-
(iv)	Wagons	Gross (-),14,47,90	-	4,23,557	-	124	-	-	-	-	-	-	-	-	-	2,78,891	-
		Credit	-	1,43,545	-	-	-	-	-	-	-	-	-	-	-	1,43,545	-
		Net (-),14,47,90	-	2,80,012	-	124	-	-	-	-	-	-	-	-	-	1,35,346	-
(v)	Rail-cum-road service.	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(vi)	Others	Gross 1,747	-	-	-	-	-	-	-	-	-	-	-	-	-	1,747	-
		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net 1,747	-	-	-	-	-	-	-	-	-	-	-	-	-	1,747	-
(vii)	Track Machine	Gross 16,873	-	-	-	-	-	-	-	-	-	-	-	-	-	16,873	-
		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net 16,873	-	-	-	-	-	-	-	-	-	-	-	-	-	16,873	-
9.	LA-LC TO IRFC, ETC.	Gross	-	-	-	-	22,76,300	-	-	-	-	-	-	-	-	22,76,300	-
(22)		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
			-	-	-	-	22,76,300	-	-	-	-	-	-	-	-	22,76,300	-
10.	RD-SFT-UN-MAN	Gross	-	-	-	-	-	-	2,96,508	-	-	-	-	-	-	2,96,508	-
(29)		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	2,96,508	-	-	-	-	-	-	2,96,508	-
11.	RD-SFT-OB/UB	Gross	-	-	-	-	-	-	9,72,167	73	-	-	-	-	-	9,72,167	73
(30)		Credit	-	-	-	-	-	-	485	-	-	-	-	-	-	485	-
		Net	-	-	-	-	-	-	9,71,682	73	-	-	-	-	-	9,71,682	73

Statement showing the expenditure—Plan head-wise for the year 2010-2011—(Concl'd.) (Figures in thousands of ₹)

Sl. No.	Plan Head	Capital		DRF		D F		Capital Fund		R.S.F.		S.R.S.F.		OLWR		Total	
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
12.	Track Renewals (31)	Gross	-	22,70,449	7,597	-	-	-	-	-	-	-	-	-	-	22,70,449	7,597
		Credit	-	9,48,954	-	-	-	-	-	-	-	-	-	-	-	9,48,954	-
		Net	-	13,21,495	7,597	-	-	-	-	-	-	-	-	-	-	13,21,495	7,597
13.	Bridge Works (32)	Gross	-	1,89,272	-	(-) 13,738	-	-	-	-	-	-	-	-	-	1,75,534	-
		Credit	-	311	-	-	-	-	-	-	-	-	-	-	-	311	-
		Net	-	1,88,961	-	(-) 13,738	-	-	-	-	-	-	-	-	-	1,75,223	-
14.	Signalling and Telecommunication (33)	Gross	812	1,79,613	487	1,94,139	-	-	-	-	-	-	-	-	-	3,74,564	487
		Credit	-	12,048	-	8,602	-	-	-	-	-	-	-	-	-	20,650	-
		Net	812	1,67,565	487	1,85,537	-	-	-	-	-	-	-	-	-	3,53,914	487
15.	Taking of lines from P. & T. (34)	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16.	Electrification Project. (35)	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17.	Other Electrical Works. (36)	Gross	8,840	78,685	-	14,287	-	-	-	-	-	-	1,589	-	-	1,03,401	-
		Credit	-	-	-	-	-	-	-	-	-	-	1,589	-	-	1,03,401	-
		Net	8,840	78,685	-	14,287	-	-	-	-	-	-	-	-	-	-	-
18.	Machinery & Plant (41)	Gross	50,967	2,89,985	-	7,286	-	-	-	-	-	-	13,991	-	-	3,62,229	-
		Credit	-	-	-	-	-	-	-	-	-	-	13,991	-	-	3,62,229	-
		Net	50,967	2,89,985	-	7,286	-	-	-	-	-	-	-	-	-	-	-
19.	Workshops (42)	Gross	1,62,850	465	19,785	-	1,30,002	-	-	-	-	-	-	1,425	-	3,14,062	465
		Credit	211	-	1,228	-	1,313	-	-	-	-	-	-	-	-	2,752	-
		Net	1,62,639	465	18,557	-	1,28,689	-	-	-	-	-	-	1,425	-	3,11,310	465
20.	Staff Quarters (51)	Gross	17,179	1,37,128	424	-	-	-	-	-	-	-	-	-	-	1,54,307	424
		Credit	-	409	-	-	-	-	-	-	-	-	-	-	-	409	-
		Net	17,179	1,36,719	424	-	-	-	-	-	-	-	-	-	-	1,53,898	424
21.	Amenities for Staff (52)	Gross	(-) 60	52,466	-	1,49,203	427	-	-	-	-	-	-	319	-	2,01,928	427
		Credit	-	204	-	-	-	-	-	-	-	-	-	319	-	214	-
		Net	(-) 60	52,262	-	1,49,193	427	-	-	-	-	-	-	-	-	2,01,714	427
22.	(i) Passenger Amenities. (53)	Gross	-	76,425	-	5,42,594	-	-	-	-	-	-	-	-	-	6,19,019	-
		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net	-	76,425	-	5,42,594	-	-	-	-	-	-	-	-	-	6,19,019	-
23.	(ii) Other Railway Users Amenities (53)	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.	Investment in Govt. commercial under taking public under takings. (62)	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25.	Other specified Works. (64)	Gross	2,604	8,508	-	1,36,757	-	-	-	-	-	-	-	2,791	-	1,50,660	-
		Credit	-	-	-	68	-	-	-	-	-	-	-	2,791	-	68	-
		Net	2,604	8,508	-	1,36,689	-	-	-	-	-	-	-	-	-	1,50,592	-
26.	Stores Suspense	Gross	91,81,655	-	-	-	-	-	-	-	-	-	-	-	-	91,81,655	-
		Credit	93,08,894	-	-	-	-	-	-	-	-	-	-	-	-	93,08,894	-
		Net	(-) 1,27,239	-	-	-	-	-	-	-	-	-	-	-	-	(-) 1,27,239	-
27.	Manufacture Suspense	Gross	73,94,640	-	-	-	-	-	-	-	-	-	-	-	-	73,94,640	-
		Credit	74,00,512	-	-	-	-	-	-	-	-	-	-	-	-	74,00,512	-
		Net	-5,872	-	-	-	-	-	-	-	-	-	-	-	-	(-) 5,872	-
28.	Miscellaneous Advance	Gross	1,048	-	-	-	-	-	-	-	-	-	-	-	-	1,048	-
		Credit	(-) 3,266	-	-	-	-	-	-	-	-	-	-	-	-	3,266	-
		Net	4,314	-	-	-	-	-	-	-	-	-	-	-	-	(-) 4,314	-
29.	Grand Total	Gross	2,78,15,727	4,11,362	49,99,340	8,508	13,97,163	427	22,76,300	12,68,675	73	-	-	31,833	-	3,77,89,038	4,20,370
		Credit	1,67,33,756	-	21,93,241	-	10,786	-	-	485	-	-	-	-	-	1,89,38,268	-
		Net	1,10,81,971	4,11,362	28,06,099	8,508	13,86,377	427	22,76,300	12,68,190	73	-	-	31,833	-	1,88,50,770	4,20,370

Statement showing the break-up of expenditure under the plan head "Rolling Stock" for the year 2010-2011.

21. Rolling Stock—

(Figures in thousands of ₹)

Sl. No.	Plan Head																
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
(i) Locomotives	B.O.Gr. & Net.	51,152	-	5,17,113	-	-	-	-	-	-	-	-	-	-	-	5,68,265	-
	O.B.O.Gross	-39,188	-	-1,85,962	-	-	-	-	-	-	-	-	-	-	-	-2,25,150	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-39,188	-	-1,85,962	-	-	-	-	-	-	-	-	-	-	-	-2,25,150	-
(ii) Loco spares	B.O.Gr. & Net.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	O.B.O.Gross	79,042	-	2,72,866	-	-	-	-	-	-	-	-	-	-	-	3,51,908	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	79,042	-	2,72,866	-	-	-	-	-	-	-	-	-	-	-	3,51,908	-
(iii) Carriages	B.O.Gr. & Net.	11,08,487	-	2,81,552	-	23,903	-	-	-	-	-	-	-	-	-	14,13,942	-
	O.B.O.Gross	(-54,850)	-	11,821	-	-	-	-	-	-	-	-	-	-	-	-43,029	-
	Credit	-	-	67,431	-	-	-	-	-	-	-	-	-	-	-	67,431	-
	Net	(-54,850)	-	(-55,610)	-	-	-	-	-	-	-	-	-	-	-	-1,10,460	-
(iv) Wagons	B.O. Gr. & Net.	(-406)	-	3,93,067	-	-	-	-	-	-	-	-	-	-	-	3,92,661	-
	O.B.O.Gross	(-1,44,384)	-	30,490	-	124	-	-	-	-	-	-	-	-	-	-1,13,770	-
	Credit	-	-	1,43,545	-	-	-	-	-	-	-	-	-	-	-	1,43,545	-
	Net	(-1,44,384)	-	(-1,13,055)	-	124	-	-	-	-	-	-	-	-	-	-2,57,315	-
(v) Rail-cum-Road Service.	B.O.Gr. & Net.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	O.B.O.Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(vi) Others	B.O.Gr. & Net.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	O. B. O.Gross	1,747	-	-	-	-	-	-	-	-	-	-	-	-	-	1,747	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	1,747	-	-	-	-	-	-	-	-	-	-	-	-	-	1,747	-
(vii) Track Machine	B.O.Gr. & Net.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	O. B. O. Gross	16,873	-	-	-	-	-	-	-	-	-	-	-	-	-	16,873	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	16,873	-	-	-	-	-	-	-	-	-	-	-	-	-	16,873	-
Total	B.O.Gr. & Net.	11,59,233	-	11,91,732	-	23,903	-	-	-	-	-	-	-	-	-	23,74,868	-
	O.B.O.Gross	(-1,40,760)	-	1,29,215	-	124	-	-	-	-	-	-	-	-	-	-11,421	-
	Credit	-	-	2,10,976	-	-	-	-	-	-	-	-	-	-	-	2,10,976	-
	Net	(-1,40,760)	-	(-81,761)	-	124	-	-	-	-	-	-	-	-	-	-2,22,397	-
Rolling Stock Grand Total	Gross	10,18,473	-	13,20,947	-	24,027	-	-	-	-	-	-	-	-	-	23,63,447	-
	Credit	-	-	2,10,976	-	-	-	-	-	-	-	-	-	-	-	2,10,976	-
	Net	10,18,473	-	11,09,971	-	24,027	-	-	-	-	-	-	-	-	-	21,52,471	-

Statement showing the break-up of Expenditure under the Plan Head "Machinery and Plant" for the year 2010-2011.

(Figures in thousands of ₹.)

Sl. No.	Plan Head	Capital		DRF		DF		Capital Fund		R.S.F.		S.R.S.F.		OLWR		Total	
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
MACHINERY AND PLANT																	
(i) Mechanical	Gross	30,618	-	2,18,124	-	13	-	-	-	-	-	-	-	12,285	-	2,61,040	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	30,618	-	2,18,124	-	13	-	-	-	-	-	-	-	12,285	-	2,61,040	-
(ii) Electrical	Gross	14,568	-	39,958	-	542	-	-	-	-	-	-	-	1,489	-	56,557	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	14,568	-	39,958	-	542	-	-	-	-	-	-	-	1,489	-	56,557	-
(iii) Civil Engineering	Gross	1,756	-	9,862	-	-	-	-	-	-	-	-	-	-	-	11,618	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	1,756	-	9,862	-	-	-	-	-	-	-	-	-	-	-	11,618	-
(iv) General Stores	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Statement showing the break-up of Expenditure under the Plan Head "Machinery and Plant" for the year 2009-2010—(Concl'd.)

Sl. No.	Plan Head	Capital		DRF		DF		Capital Fund		R.S.F.		S.R.S.F.		OLWR		Total	
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
(v) Accounts	Gross Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(vi) Signal and Tele-communication	Gross Credit	994	-	5,238	-	738	-	-	-	-	-	-	-	217	-	7,187	-
	Net	994	-	5,238	-	738	-	-	-	-	-	-	-	217	-	7,187	-
(vii) Medical	Gross Credit	-	-	11,639	-	5,993	-	-	-	-	-	-	-	-	-	17,632	-
	Net	-	-	11,639	-	5,993	-	-	-	-	-	-	-	-	-	17,632	-
(viii) Security	Gross Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ix) Operating	Gross Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(x) General	Gross Credit	3,031	-	5,164	-	-	-	-	-	-	-	-	-	-	-	8,195	-
	Net	3,031	-	5,164	-	-	-	-	-	-	-	-	-	-	-	8,195	-
Total Machinery and Plant	Gross Credit	50,967	-	2,89,985	-	7,286	-	-	-	-	-	-	-	13,991	-	3,62,229	-
	Net	50,967	-	2,89,985	-	7,286	-	-	-	-	-	-	-	13,991	-	3,62,229	-

11. Correction of Expenditure of Performance

Grant No. 5—Abstract 'C'—Repairs and Maintenance of Motive Power

Grant No. 6—Abstract 'D'—Repairs and Maintenance of Carriages and Wagons

Sl. No.	Particulars	2008-09	2009-10	2010-11	Sl. No.	Particulars	2008-09	2009-10	2010-11
1.	Expenditure actually booked ..	83,853.45	99,738.42	95,856.71	II. Diesel—				
2.	Total extraneous factors contributing to increase in expenses such as payment of Productivity Linked Bonus, increase in Cost of Materials, Dearness Allowance, Interim Relief, Net effect of increment, etc.	24,499.99	11,947.28	6,275.76	(i)	Expenditure on Locomotives Workshop Repairs.	5,139.85	3,330.41	3,958.50
3.	Locomotives :				(ii)	Proportionate amount of extraneous factors.	1,501.74	398.94	259.16
I. Steam—					(iii)	Debits raised by CLW/CRJ, DLW, etc.	..	..	..
(i)	Expenditure on Locomotives Workshop Repairs.	61.79	175.40	140.42	(iv)	Comparable expenditure item (i) Minus item (ii) Minus (iii).	3,638.11	2,931.47	3,278.71
(ii)	Proportionate amount of extraneous factors.	18.05	21.01	9.19	(v)	Index of comparable expenditure (Per cent).	100.00	80.58	90.12
(iii)	Debits raised by South Central Railway for Work done.	..	..	..	(vi)	(a) Performance measured in terms of standard 1st Class or units repaired—			
(iv)	Comparable expenditure (Item (i) minus item (ii) minus (iii)).	43.74	154.39	131.23	Broad Gauge	54.00	41.00	56.00	
(v)	Index of Comparable expenditure (per cent).	100.00	353.00	300.04	Metre Gauge	20.00	1.00	2.00	
(vi)	(a) Performance measured in terms of standard 1st Class or units repaired—				Narrow Gauge .. ..	..	..	..
Broad Gauge ..		..	..	..	(b) Performance measured per million equated engine kilometres—				
Metre Gauge ..		2.00	0.00	0.00	Broad Gauge	0.45	0.32	0.41	
Narrow Gauge ..		..	..	..	Metre Gauge	6.75	0.67	1.61	
(b) Performance measured per million equated engine kilometres—					Narrow Gauge .. ..	..	..	..
Broad Gauge ..		..	..	..	III. Electrical—				
Metre Gauge ..		60.61	0.00	0.00	(i)	Expenditure on Locomotives workshop Repairs.	7,894.89	7,338.52	6,914.51
Narrow Gauge ..		..	..	..	(ii)	Proportionate amount of extraneous factors.	2,306.70	879.05	452.69
					(iii)	Debits raised by South Central Railway for work done.	..	..	..
					(iv)	Comparable expenditure item (i) Minus item (ii) Minus (iii).	5,588.19	6,459.47	6,461.82

Sl. No.	Particulars	2008-09	2009-10	2010-11
(v)	Index of comparable expenditure (Per cent).	100.00	115.59	115.63
(vi)(a)	Performance measured in terms of standard 1st Class or units repaired—			
	Broad Gauge ..	281.24	298.22	320.04
	Metre Gauge ..	..	..	..
	Narrow Gauge ..	..	..	..
(b)	Performance measured per million equated engine kilometres—			
	Broad Gauge ..	1.88	1.77	1.80
	Metre Gauge ..	..	..	..
	Narrow Gauge ..	..	..	..
(c)	Performance measured per million Gross tonne kilometres—			
	Broad Gauge ..	0.006	0.006	0.007
	Metre Gauge ..	#DIV/0!	#DIV/0!	..
	Narrow Gauge ..	..	..	..
IV. Carriages—				
(i)	Expenditure on Carriage Workshop Repairs.	20,521.04	25,029.86	23,253.05
(ii)	Proportionate amount of extraneous factors.	5,995.76	2,998.23	1,522.38
(iii)	Comparable expenditure (Item (i) minus Item (ii)).	14,525.28	22,031.63	21,730.67
(iv)	Index of Comparable expenditure (Per cent)	100.00	151.68	149.61
(v) (a)	Performance measured in terms of number repaired.			
	(1) Passenger Carriages (in terms of four-wheelers)			
	Broad Gauge	3,954.00	4,134.00	3,934.00
	Metre Gauge	164.00	74.00	48.00
	Narrow Gauge	..	..	..
	(2) Other Coaching Vehicles			
	Broad Gauge	171.00	185.00	212.00
	Metre Gauge	0.00	0.00	4.00
	Narrow Gauge	..	..	..
	(3) Performance of passenger carriage measured per million passenger train kilometres—			
	Broad Gauge	102.57	100.63	89.89
	Metre Gauge	125.48	116.90	93.39
	Narrow Gauge	..	..	..
	(4) Performance of other coaching vehicles measured per million vehicle kilometres—			
	Broad Gauge	1.45	1.46	1.50
	Metre Gauge	#DIV/0!	#DIV/0!	#DIV/0!
	Narrow Gauge	..	..	..
(iv)	Weighted index of performance weightage given for the different gauges on the basis of cost of repairs per unit in the base year, equal weightage being given for fusion of passenger carriage and other coaching vehicle (percentage).	100.00	100.10	98.91
V. Wagons—				
(i)	Expenditure on Wagon work - shop Repairs.	4,006.99	6,992.71	7,209.72
(ii)	Proportionate amount of extraneous factors.	1,170.75	837.63	472.02
(iii)	Debits raised by other Railways for POH of S. Rly. Wagons.	..	..	6,230.00

Sl. No.	Particulars	2008-09	2009-10	2010-11
(iv)	Comparable expenditure (Item (i) Minus item (ii) Minus (iii)).	2,836.24	6,155.08	507.70
(v)	Index of comparable expenditure (Per cent).	100.00	217.02	17.90
(vi) (a)	Performance measured in terms of number repaired			
	Broad Gauge	174.00	347.00	180.00
	Metre Gauge	0.00	0.00	0.00
	Narrow Gauge	..	..	..
(b)	Performance measured per million wagon Kms. (in terms of four wheelers)—			
	Broad Gauge ..	0.30	0.64	0.33**
	Metre Gauge ..	#DIV/0!	#DIV/0!	#DIV/0!
	Narrow Gauge ..	..	..	..
(c)	Performance measured per million net tonne kilometres—			
	Broad Gauge ..	0.011	0.021	0.011
	Metre Gauge ..	0.000	0.000	#DIV/0!
(vi)	Weighted index of performance (weightage given on the basis of unit cost of repairs for the different gauge) (Per cent).	100.00	191.20	102.39
(vii)	Expenditure on other than loco carriage and wagon workshop repairs as booked.	46,228.89	56,871.52	54,380.51
(viii)	Proportionate amount of element of extraneous factors.	13,506.99	6,812.42	3,560.30
(ix)	Comparable expenditure (Item VII—Item VIII)	32,721.90	50,059.10	50,820.21
(x)	Index of comparable expenditure (Per cent).	100.00	152.98	155.31
(xi)	Gross tonne kilometres (All traction goods and proportionate of mixed plus passenger EMU and Rail Cars) (in millions).	83,616	82,526	85,930
(xii)	Index of Performance	100.00	98.70	102.77

Grant No. 8—Operating Expenses.—Rolling Stock and Equipment—

(Figures in lakhs of ₹)

Particulars	Actuals 2008-09	Actuals 2009-2010	Actuals 2010-2011
1. Gross expenditure under Grant No. 8.	35,349.95	42,583.84	41,719.49
2. Extraneous items to be excluded.—			
(a) Expenditure on Electrical services.	6,645.80	7,550.76	8,015.17
(b) Effect of Additional D. A. & I. R.	0.00	- 464.15	-2,126.34
(c) Effect of PLB	0.00	84.96	- 141.40
(d) Increase in Cost of Stores	0.00	- 119.65	601.48
Total Item II ..	6,645.80	6,882.00	9,398.63
3. Comparable expenditure (Item 1 minus Item II).	28,704.15	35,701.84	32,320.86
4. Index of comparable -expenditure (Per cent)	100.00	124.38	112.60
5. Performance measured in terms of Train kilometres.	63,510.00	64,900.00	67,351.00
6. Index of performance (per cent)	100.00	102.19	106.05

Grant No. 9—Operating Expenses—Traffic—

(Figures in lakhs of ₹)

Particulars	Actuals 2008-09	Actuals 2009-2010	Actuals 2010-2011
1. Gross expenditure under Grant No. 9.	65,819.13	83,906.19	82,930.41
2. Extraneous items to be excluded.—			
(a) Effect of Additional D.A. & I.R.	0.00	-1,033.21	5,320.71
(b) Effect of PLB	0.00	-471.55	568.03
(c) Effect of IRCA & IRFC transaction			
I. R. C. A.	0.00	380.91	-4,085.06
I. R. F. C.	0.00	5,133.00	8,163.00
Total Item II	0.00	4,009.14	17,000.74
3. Comparable expenditure (Item I, minus Item II)	65,819.13	79,897.04	65,929.67
4. Index of comparable expenditure (Per cent).	100.00	121.39	100.17
5. Performance measured in terms of Train kilometres	63,510.00	64,900.00	67,351.00
6. Index of performance (Per cent).	100.00	102.19	106.05

Grant No. 10—Operating Expenses—Fuel

(Figures in lakhs of ₹)

Particulars	2008-09	2009-10	2010-11
I. Gross expenditure under Grant No. 10—Operating Expenses—Fuel.	93,888.49	93,828.23	1,02,932.91
II. Extraneous factors contributing to increase/decrease in Gross expenditure —			
(1) Increase in rates of D. A. and I. R.	..	-7.05	-35.67
(2) Annual scale increase, Operating of posts and	..	97.10	23.27
(3) Increase in other allowances restructuring of cadre.	..	21.25	786.52

(Figures in lakhs of ₹)

Particulars	2008-09	2009-2010	2010-2011
(4) Variation of sea-rail freight due to change in freight structures including reduction in subsidy.	..	..	..
(5) More/Less adjustment of storages.	..	..	..
(6) Increase/Decrease due to change in average rate of freight.	..	79.24	44.93
(7) Increase in prime cost of Coal.	..	-44.47	62.39
(8) Increase in prime cost of Diesel.	..	-213.74	2,313.81
(9) Increase in average cess and sales tax on coal (due to revision of cess rate).	..	-4.07	24.25
(10) Increase in average cess and Sales tax on H. S. D. oil (due to change of supply point).	..	255.74	3,287.83
(11) Revision of Electricity charges including penal levy.	..	-1,221.11	-589.45
(12) Throw forward debits of K. P. Dock.	..	..	..
(13) Increase in average issue rate of H. S. D. oil.	..	..	..
(14) Reduction in average rate due to change in pattern.	..	..	..
(15) Arrears payment freight charges on Bengal Rail Borne coal.	..	..	..
Total II.	..	-1,037.11	5,989.23
III. Comparable Expenditure (Item I—Item II).	93,888.49	94,865.34	96,943.68
IV. Index of Comparable expenditure.	100.00	101.04	103.25
V. Performance measured in terms of Gross Tonne Kilometer of all tractions (in Millions).	83,616	82,526	85,930
VI. Index of Performance	100.00	98.70	102.77



IV. NEW CONSTRUCTION AND ENGINEERING WORKS

New Lines Opened

Sl. No.	Name of Work	Cost ₹ in lakhs	Remarks
a) New lines opened during the year 2010-2011			
1.	MAS, SA, PGT, TVC, TPJ, MDU	..	Nil
2.	CN/MS	..	Nil
3.	MTP-MRTS Phase II	..	Nil

2. New Lines Under Construction

Sl. No.	Division	Name of Works	Cost ₹ in lakhs	% of over all progress as on 2010-11	Remarks
1	MAS	Nil			
2	SA	Nil			
3	PGT	Nil			
4	TVC	Nil			
5	TPJ	Nil			
6	MDU	Nil			
7	MTP	Nil			
8	CN/MS				
1		Trivandrum - Gingee - Tiruvannamalai (70 km) -New line.	227.40	6%	Detailed estimate sanctioned by Railway Board for Rs.227.40 crores vide letter No.2008/W1 NL/SR/TT dated 21.7.2008. Details of land acquisition submitted to the Tamilnadu State Government. After getting adequate land, mega tenders will be called. In the meantime, agency fixed for construction of 6 major bridges and works are progressing.
2		Trivandrum - Nagari (179.20 km) - New lines.	582.83	5%	Detailed estimate sanctioned by Railway Board for Rs.582.83 crores for the entire project vide Railway Board vide letter No.2007/W1/ NL/SR/TN dated 4.7.2008. Contracts for earth work, bridge works awarded. Earthwork for a quantity of 1,20,000 cum. Completed and balance are in progress. Works awarded for 13 major bridges and all are progressing. 17 minor bridges completed and others are in progress. For remaining section calling mega tenders will be planned after land acquisition.
3		Attippattu - Puttur (88.3 kms)	527.00	0%	New work included in Pink Book in the year 2008-09 at a cost of Rs.446.87 crores. Final location survey work completed. Land requirements furnished to Andhra Pradesh and Tamilnadu State Governments. Regarding the issue of entrusting the physical execution of the project to RVNL. Railway Board have now advised that this project should stay with Southern Railway. Accordingly, the detailed estimate for Rs.527.37 crores has been prepared and sent to Railway Board on 25.02.2011.
		Erode - Palani (91.05 kms)	589.37	0%	New work included in Pink Book in the year 2008-09 at a cost of Rs.288.87 crores.

Sl. No.	Division	Name of Works	Cost ₹ in lakhs	% of over all progress as on 2010-11	Remarks
New Lines Under Construction—Contd.					
5.		Chennai - Cuddalore (Via) Mahabalipuram (179.28 kms).	800.00	4%	<p>Detailed estimate for Rs.603 crores has been prepared and submitted to Railway Board on 13.08.2010.</p> <p>Physical execution will be taken up after acquisition of adequate land and after getting sanction of the detailed estimate. In the mean time Railway Board vide their letter No.2007/W1/NL/SR/EP dt. 08.12.2010 observed that this new line project is not considered necessary from operational point of view and a number of similar projects are not making much progress for want of funds.</p> <p>Based on the above letter, State Government of Tamilnadu has been requested to convey their consent to provide land free of cost and also to share 50% of the balance cost of the project vide this office letter No.W.193/XXII/27/CN dt. 23.12.2010. In reply to this, the State Government of Tamilnadu has expressed inability in providing land free of cost and also in sharing 50% of the balance cost of the project. This has been conveyed to Railway Board and Board's decision is awaited.</p> <p>New work included in Pink Book in the year 2008-09 at a cost of Rs.523.52 crores.</p> <p>As the alignment is to take off from Perungudi, there will be limitation in running freight trains in the new line. Hence, it is proposed to give a new link from Chengalpattu to Mahabalipuram connecting the Chennai Beach - Villupuram section at Chengalpattu and the proposed new BG line from Chennai (Perungudi) to Cuddalore at Mahabalipuram. The work is in progress for striking out the alignment. 190 kms. of alignment has been struck.</p>
6.		Tirunnavaya-Guruvayur- New line (35 Kms).	137.71	0%	<p>After objection from locals and High Court, the alignment of Tirunnavaya to Guruvayur (35 kms) was approved by the Kerala State Government only in April 2009, after a delay of 14 years.</p> <p>For the first 8 kms alignment finalised and land requirement furnished to the Kerala Government. Part estimate for Guruvayur to Kunnankulam has been sent to Finance for vetting.</p> <p>For the remaining 27 kms. Final location survey is held up due to public protest Kerala Government informed for assistance to sort out local protest but in vain.</p> <p>Meeting proposed on 15.11.2011 to sort out alignment issues was postponed. Rs.10 crore is to be deposited for land acquisition for which funds are awaited.</p> <p>After sanction of estimate and after handing over of the land, tenders can be invited for execution of works, after which it would take 3 years to complete the project. Agency for Guruvayur yard and works is under progress. Agency is to be fixed for OHE works.</p>

Sl. No.	Name of Work	Cost ₹ in lakhs	% of over all progress as on 2010-11	Remarks
New Lines Under Construction—Contd..				
7.	Karur-Salem New Line (85 kms)	712.00	85%	<p>Estimate for Rs.229.88 crores sanctioned by Board. However, anticipated cost is Rs.712.00 crores. Revised estimate will be submitted shortly.</p> <p>All pending court cases regarding land acquisition were disposed and Railways have taken physical possession of required land. Extra compensation court cases - out of 1300 cases, 240 cases finalised. Balance are pending in various courts. Some more land acquisition is to be done for the purpose of shifting of electric transmission cable and for ROB/RUBs. Contracts for all works finalised and works are progressing over entire length.</p> <p>(i) Work completed in Salem-Namakkal section and engine rolled from 28/3/2011 to 31/3/2011.</p> <p>(ii) TRR with 10 Rail panel will be done before May 2011.</p> <p>(iii) All other residual works/finishing works will be completed by June 2011 and offered for CRS's inspection during June 2011.</p>
8.	Angamali - Sabarimala New Line (116 Kms)	550.00	3%	<p>1) Railway Board's procedural approval was obtained. Forest department is not allowing Railways to pass through Tiger Reserve Forest. So Board has decided to terminate the new line at Azhutha vide Board's letter No.W.93/W1/Survey/SR II dated 7.1.2004. Final location survey was completed upto Azhutha. Working plan and section approved. Railway Board has sanctioned the part detailed estimate for Rs.517.70 crores (for major heads) vide Board letter No.93/W1/Survey/SR/11 dated 7.5.2006.</p> <p>2) Only 7.83 Hectares of land out of the total requirement of 517 hectares have been handed over by the State Government of Kerala.</p> <p>3) Railways have already deposited an amount of Rs.49.60 crores with the State Government of Kerala as against the tentative cost of land acquisition of Rs.400 crores. The estimate provision is only Rs.45.00 crores.</p> <p>4) After getting adequate land from the State Government, further tender will be called.</p> <p>5) At present, works at a cost of Rs.5.00 crores for Earthwork and Minor bridges for a short stretch of about 5 Km from Angamali, are in progress and will be completed 31.12.10. Work has been awarded for one Major bridge on 26.5.2010. Work has been started.</p> <p>6) The State Government has also been requested as to whether the alignment is to be taken upto Azhutha or terminated at Erumeli itself, as there is opposition from forest department. Detailed meeting took place with the Hon'ble CM for Kerala on 12.5.2010.</p>

Sl. No.	Division	Name of Works	Cost ₹ in lakhs	% of over all progress as on 2010-11	Remarks
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New Lines Under Construction—Concd.

7) In the meantime, environment Ministry of Central Government also stepped in and taking a stand against the execution of the project. In this connection, Railways and Kerala State Government will jointly file the reply to the High Court shortly.

8) Detailed estimate for Rs.1214 cr. has been prepared and sent to Railway Board and during September 2010. Further progress in land acquisition will be made only after sanction of detailed estimate.

9) A meeting of the concerned peoples' representative was convened by Hon'ble Chief Minister of Kerala on 27.11.2010 to sort out the alignment issues but postponed.

10) Consequent to the advocate notice given in persuasion of the implementation of the judgement in WP 735/2008, Railway Board's concurrence has been asked for going ahead with further works.

11) In a meeting convened by MOSR on 7.12.2010 at Railway Board, it was decided to go ahead with all works since a part estimate is already sanctioned. Accordingly, taking over of land has started.

12) Taking over of land is proposed to be started from Azhutha end also to speed up the process.

13) State Government has been advised to bear 50% cost of the project in view of huge throw forward of on going sanctioned projects as per Railway Board's letter No.93/W1/Survey/SR/II dt.13.12.2010.

14) Presently, taking over of land has slowed down due to lack of funds.

New Lines sanctioned works during 2010-11

1.	MAS	Nil
2.	SA	Nil
3.	PGT	Nil
4.	TVC	Nil
5.	TPJ	Nil
6.	MDU	Nil
7.	MTP	Nil
8.	CNMS	Nil

Sl. No.	Name of Work	Cost ₹ in lakhs	Remarks
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3. Surveys**(a) Surveys sanctioned during the year 2010-11**

1.	Preliminary Engineering-cum-Traffic Survey for a new BG line between Chengannur and Trivandrum via Adoor, Kottarak, kara.	9.00	Sanctioned vide Railway Board's Demands for Grants-Railways - 2010-11 under Item No.33.
2.	Preliminary Engineering-cum-Traffic survey for a new BG line between Sriperumbudur - Oragadam.	14.10	Sanctioned vide Railway Board's letter No.2010/W1 NL/SR/SO dt.13.07.2010.

Sl. No.	Name of Work	Cost ₹ in lakhs	Remarks
Surveys—Concl'd.			
3.	Preliminary Engineering-cum-traffic survey for a new BG line between Chengalpattu and Mahablipuram (MTP).	13.50	Sanctioned vide Railway Board's letter No.2009/W1/Genl./Surveys/9-10 dt.24.6.2010.
4.	Updating for a new BG line between Port Blair and Diglipur.	35.85	Sanctioned vide Railway Board's letter No.2009/W1/Genl./Surveys/9-10 dt.24.6.2010.
b) SURVEY IN PROGRESS DURING THE YEAR 2010-11.			
1	Preliminary Engineering-cum-traffic Survey for a new BG line between Chengannur and Trivandrum via Adoor, Kottarakkara.	9.00	The Preliminary Engineering-cum Traffic Survey has been conducted and survey report was submitted to Railway Board on 11.6.1997. Length: 100.78 km (CNGR-TVC), Cost Rs.264.62 crore, ROR: (+) 4.39%. Railway Board has shelved the project vide Board's letter no.95/W1/NL/S/6 dated 10.12.1997. Again the PET survey ordered for 30 km at an estimated cost of Rs.9.00 lakhs. However, the approximate distance between Chengannur and Trivandrum via Adoor & Kottarakkara will be around 120 km. due to development of towns/villages, and anticipated survey cost will be around Rs.36,00,000/-, advised to Railway Board vide letter no.W.337/1/93/CN dated 17.3.2010 to sanction for revised kilometre and cost. Sanction yet to be received from Railway Board. Reminded on 20.1.2011.
2.	Preliminary Engineering-cum-traffic Survey for a new BG line between Sriperumbudur - Oragadam.	14.10	Sriperumbudur - Oragadam is only 11.50 km. Railway Board ordered for 47 kms. There is no connectivity on either side. Survey estimate sent for Accounts vetting. FA & CAO returned and advised to get approval from Railway Board for 55.15 kms i.e. from Avadi-Guduvancheri via Sriperumbudur and Oragadam. Railway Board issued order vide letter No.2010/W1/NL/SR/SO dated 13.7.2010 to proposed suitable nearest linkage with the existing rail network for this new line. LOA issued. Contractor commenced the work. Sriperumbudur to Irungatukkottai new alignment proposed to check the feasibility.
3.	Preliminary Engineering-cum-traffic Survey for a new BG line between Chengalpattu and Mahabalipuram (MTP).	13.50	Work in progress along with final location survey for a new BG line between Chennai and Cuddalore via Mahabalipuram.
4.	Updating for a new BG line between Port Blair and Diglipur.	35.85	Railway Board has sanctioned vide letter No.2009/W1/Genl./Surveys/09-10 dt. 24.06.2010. Survey estimate sanctioned. Updating survey is in progress.

b) SURVEY COMPLETED DURING THE YEAR 2010-11.

Sl. No.	Name of Works	Kms.	Cost ₹ in lakhs	Remarks
1.	Preliminary Engineering-cum-Traffic Survey for Gauge Conversion of existing MG line between Tambaram and Chengalpattu.	29.545	18772.432 ROR:(+) 3.38%	Project sanctioned in 2011-12 Budget.
2.	Preliminary Engineering-cum-Traffic Survey for Salem-Omalur-Mettur Dam (Doubling).	43.43	Rs.21433. 180ROR:(+) 18.906%	Project sanctioned in 2011-12 Budget.
3.	Preliminary Engineering-cum-Traffic Survey for construction of 3rd line between Renigunta-Arakkonam.	79.35	41800.834 ROR:(+) 4.461%	Report submitted to Railway Board on 31.5.2010. Railway Board asked for clarification. Reply submitted on 1.9.2010. Railway Board's has shelved the project vide letter No.2010/W1/DL/SR/AR dt. 11.1.2011.

Sl. No.	Name of Works	Kms.	Cost ₹ in lakhs	Remarks
b) SURVEY COMPLETED DURING THE YEAR 2010-11— (Concl'd.)				
1.	Preliminary Engineering-cum-Traffic Survey for Gauge Conversion of existing MG line between Tambaram and Chengalpattu.	29.545	18772.432 ROR:(+) 3.38%	Project sanctioned in 2011-12 Budget.
2.	Preliminary Engineering-cum-Traffic Survey for Salem-Omalur-Mettur Dam (Doubling).	43.43	21433.180 ROR:(+) 18.906%	Project sanctioned in 2011-12 Budget.
3.	Preliminary Engineering-cum-Traffic Survey for construction of 3rd line between Renigunta-Arakkonam.	79.35	41800.834 ROR:(+) 4.461%	Report submitted to Board on 4.8.2010. Railway Board on 31-05-2010. Railway Board asked for clarification. Reply submitted on 1-9-2010. Railway Board's has shelved the project vide letter No. 2010/W1/DL/SR/AR dt. 11-01-2011.
4.	Updating of Reconnaissance Engineering-cum Traffic Survey for Doubling of Thanjavur-Ponmalai (GOC) section with a bye pass line before GOC to connect the chord line.	47.71	19010.27 ROR:(+) 9.189%	Report submitted to Board on 4.8.2010. Railway Board's decision in this connection is awaited.
5.	Preliminary Engineering cum Traffic Survey for a new BG line (3rd & 4th) between Attippattu and Gummidiipundi.	25.37	30512.66 ROR:(+) 0.565%	Report submitted to Board on 29.10.2010. Railway Board asked for clarification. Reply sent to Railway Board on 2.2.2011. Decision is awaited for Railway Board.
6.	Updating for a new BG line between Rameswaram and Dhanishkoti.	17	5380.39 ROR:(-) 13.761%	Survey report sent to Railway Board on 9.12.10. Railway Board asked for clarification vide letter No.2010/W1/NL/SR/RD dated 11.1.2011. Reply sent to Railway Board on 20.1.2011. Railway Board decision is awaited.
7.	Updating for a new BG line between Jolarpettai and Hosu (via) Krishnagiri).	101	68792.07 ROR:(-) 2.522%	Survey report sent to Railway Board on 31.1.2011. Railway Board asked for clarification and replied on 31.3.2011. Decision is awaited.

4. Lines Closed During the year 2010-2011

Sl. No.	Division	Station & Name of Work	Cost in Lakhs
1	MAS	Nil	
2	SA	Nil	
3	PGT	Nil	
4	TVC	Nil	
5	TPJ	Nil	
6	MDU	Nil	
7	CN/MS	1. Sengottai - Punalur GC 2. Madurai - Bodinayakkannur - GC	*102900 18272
8	MTP	Nil	

* Cost of Quilon -Tirunelveli -Tiruchendur & Tenkasi -Virudunagar GC Projects.

5. Progress of Major Project Works

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
1.0 New Lines							
1.	Tindivanam - Gingee - Tiruvannamalai (70 km) - New line	22740	Supp. D.No. 2006-07	In Progress	2040	6%	Detailed estimate sanctioned by Railway Board for Rs. 227.40 crores vide letter No. 2008/W1/NL/SR/TT dated 21/7/2008. Details of land acquisition submitted to the Tamilnadu state Government. After getting adequate land, mega tenders will be called. In the meantime, agency fixed for construction of 6 major bridges and works are progressing.
2.	Tindivanam - Nagari (179.20 km) - New line	58283	Supp.D.No. 2006-07	In Progress	7001	5%	Detailed estimate sanctioned by Railway Board for Rs.582.83 crores for the entire project vide Railway Board vide letter No. 2007/W1/NL/SR/TN dated 4/7/2008. Contracts for earth work, bridge works awarded. Earthwork for a quantity of 1,20,000 cum. completed and balance are in progress. Works awarded for 13 major bridges and all are progressing. 17 minor bridges completed and others are in progress. For remaining section calling mega tenders will be planned after land acquisition.
3.	Attippattu - Püttur (88.3 kms)	52700	2008-09	In Progress	211	0%	Final Location Survey work completed. Land requirements furnished to Andhra Pradesh and Tamilnadu State Governments. Regarding the issue of entrusting the physical execution of the project to RVNL, Railway Board have now advised that this project should stay with Southern Railway. Accordingly, the detailed estimate for Rs 527.37 Crs has been prepared and sent to Railway Board on 25/2/2011.
4.	Erode - Palani (91.05 kms)	58937	2008-09	In Progress	113	0%	Detailed estimate for Rs.603 crores has been prepared and submitted to Railway Board on 13/08/2010. Physical execution will be taken up after acquisition of adequate land and after getting sanction of the detailed estimate. In the mean time Railway Board vide their letter No.2007/W1/NL/SR/EP dt.8/12/2010 observed that this new line project is not considered necessary from operational point of view and a number of similar projects are not making much progress for want

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
New Lines—Contd.							
5.	Chennai - Cuddalore (via Mahabalipuram (179.28 kms).	80000	2008-09	In Progress	90	4.00%	<p>of funds. Accordingly, it was advised to State Government to provide land free of cost and share 50% of balance cost of the project.</p> <p>Based on the above letter, State Government of Tamilnadu has been requested to convey their consent to provide land free of cost and also to share 50% of the balance cost of the project vide this office letter No.W.193/XXII/27/CN dt.23/12/2010. In reply to this, the State Government of Tamilnadu has expressed inability in providing land free of cost and also in sharing 50% of the balance cost of the project. This has been conveyed to Railway Board and Board's decision is awaited.</p> <p>As the alignment is to take off from Perungudi, there will be limitation in running freight trains in the new line. Hence, it is proposed to give a new link from Chengalpattu to Mahabalipuram connecting the Chennai Beach - Villupuram section at Chengalpattu and the proposed new BG line from Chennai (Perungudi) to Cuddalore at Mahabalipuram and Chengalpattu to Mahabalipuram. The work is in progress for striking out the alignment. 190 kms of alignment has been struck.</p>
6.	Tirunnavaya - Guruvayur New Line (35 kms)	13771	1995 - 96	In Progress	1130	0%	<p>After objection from locals and High court, the alignment of Tirunnavaya to Guruvayur(35 kms) was approved by the Kerala State Government only in April '09, after a delay of 14 years.</p> <p>For the first 8 Kms, alignment finalised and land requirement furnished to the Kerala Government. Part estimate for Guruvayur to Kunnankulam has been sent to Finance for vetting.</p> <p>For the remaining 27 Kms, Final location survey is held up due to public protest. Kerala Government informed for assistance to sort out local protest but in vain. Meeting proposed on 15/11/2011 to sort out alignment issues was postponed. Rs.10 cr. is to be deposited for land acquisition for which funds are awaited.</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
New Lines—Contd.							
7	Karur - Salem New Line (85 kms.).	71200	1996 - 97	In Progress	52206	85%	<p>After sanction of estimate and after handing over of the land, tenders can be invited for execution of works, after which it would take 3 years to complete the project. Agency fixed for Guruvayur yard and works are in progress. Agency is to be fixed for S & T and OHE works.</p> <p>Estimate for Rs.229.88 crores sanctioned by Board. However, anticipated cost is Rs.712.00 Crs. Revised estimate will be submitted shortly.</p> <p>All pending court cases regarding land acquisition were disposed & Rlys. have taken physical possession of required land. Extra compensation court cases - out of 1300 cases, 240 cases finalised. Balance are pending in various courts. Some more land acquisition is to be done for the purpose of shifting of electric transmission cable and for ROB/RUBs.</p> <p>Contracts for all works finalised and works are progressing over entire length.</p> <p>(i) Work completed and engine rolled from 28/3/2011 to 31/0/2011. (ii) TRR with 10 Rail panel will be done before May 2011. (iii) All other residual works/finishing works will be completed by June 2011 and offered for CRS's inspection during June 2011.</p>
8	Angamali-Sabarimala New Line (116 Kms.).	55000	1997 - 98	In Progress	6813	3%	<p>1) Railway Board's procedural approval was obtained. Forest department is not allowing Railways to pass through Tiger Reserve Forest. So Board has decided to terminate the new line at Azhutha vide Board's letter No.W.93/W1/Survey/SR II dated 7/1/2004. Final location survey was completed upto Azhutha. Working plan and section approved. Railway Board has sanctioned the part detailed estimate for Rs.517.70 crores (for major heads) vide Board letter No.93/W1/Survey/SR/11 dated 17/05/2006.</p> <p>2) Only 7.83 Hectares of land out of the total requirement of 517 Hectares have been handed over by the State Government of Kerala.</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
New Lines—Contd.							
8	Angamali-Sabarimala New Line (116 Kms.).	55000	1997 - 98	In progress	6813	3%	<p>3) Railways have already deposited an amount of Rs. 49.60 crores with the State Government of Kerala, as against the tentative cost of land acquisition of Rs.400 crores. The estimate provision is only Rs.45.00 crores.</p> <p>4) After getting adequate land from the State Government, further tenders will be called.</p> <p>5) At present, works at a cost of Rs.5.00 crores for Earthwork and Minor bridges for a short stretch of about 5 Km from Angamali, are in progress and will be completed 31/12/10. Work has been awarded for one Major bridge on 26/5/2010. Work has been started.</p> <p>6) The State Government has also been requested as to whether the alignment is to be taken up to Azutha or terminated at Erumeli itself, as there is opposition from forest department. Detailed meeting took place with the Hon'ble CM for Kerala on 12/5/2010.</p> <p>7) In the mean time, environment Ministry of Central Government also stepped in and taking a stand against the execution of the project. In this connection, Railways and Kerala State Government will jointly file the reply to the Hight Court shortly.</p> <p>8) Detailed estimate for Rs.1214 cr. has been prepared and sent to Railway Board and during September 2010. Further progress in land acquisition will be made only after sanction of detailed estimate.</p> <p>9) A meeting of the concerned peoples' representative was convened by Hon'ble Chief Minister of Kerala on 27/11/2010 to sort out the alignment issues but postponed.</p> <p>10) Consequent to the advocate notice given in persuasion of the implementation of the judgement in WP-735/2008, Railway Board's concurrence has been asked for going ahead with further works.</p> <p>11) In a meeting convened by MOSR on 07/12/2010 at Railway Board, it was decided to go ahead with all works since a part estimate is already sanctioned. Accordingly, taking over of land has started.</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
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New Lines—Contd.

12) Taking over of land is proposed to be started from Azhutha end also to speed up the process.

13) State Government has been advised to bear 50% cost of the project in view of huge throw forward of ongoing sanctioned projects as per Railway Board's letter No.93/W1/Survey/SR/II dt.13/12/2010.

14) Presently, taking over of land has slowed down due to lack of funds.

2.0 Gauge Conversion

1. Villupuram - Katpadi - Gauge Conversion (161 Kms)	51316	2000 - 01	Mar-11	53583	98%	Detailed estimate has been sanctioned vide Board's letter No. 2002/W1/GC/S/2 dated 21.6.04 for Rs.231.72 Crores. An estimate amounting to Rs.3.97 crores for Electrification of Katpadi - Vellore Contonement section (10kms) is sanctioned by Railway Board as material modification to the work of GC of Tirupathi - Pakkala - Katpadi section vide letter No.92/W-2/GC/SC/20Vol - II dated 19/01/2006. Work completed between Katpadi & Vellore (11 kms) section with electrification and opened for passenger traffic on 10/11/2008 and handed over to Open line on 5/3/2009. Works completed in Vellore - Tiruvannamalai - Villupuram (150 kms) section and CRS has given authorisation vide letter dt. 15/3/2011 for Passenger Traffic with speed of 50 km/hr.
2. Manamadurai - Virudhunagar - Gauge Conversion (66.55 Kms.).	21418	2006-07	In Progress	13899	30%	Estimate sanctioned for Rs.138.03 crores vide Railway Board No.2000/W-1/GC/S/1 dated 31/12/2007. Two mega contracts including Civil, S&T and Electrical items awarded and work in progress.
3. Dindigul - Pollachi - Palaghat & Pollachi - Coimbatore - Gauge Conversion (224.88 Kms.).	90000	2006-07	In Progress	35930	45%	Part detailed estimate for the section between Podanur and Coimbatore sanctioned by Railway Board for ₹ 28.72 crores vide Railway Board letter No. 97/W1/LCT/S/3 dated 17/10/2007. Detailed estimate for the remaining portion for ₹ 529.03 crores also sanctioned vide Railway Board letter No. 97/W1/LCT/S/3/1 dated 26/2/2008. Revised estimate will be prepared and submitted to Board in due course.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
2.0 Gauge Conversion—Contd.							
							<p>Podanur - Coimbatore (6 kms) project completed, CRS inspected and section commissioned on 23/3/2010 and handed over to open line on 22/6/2010 for maintenance.</p> <p>The MG train service from Pollachi to Palghat has been suspended from 15/12/2008 and Dindigul - Pollachi - Podanur has also been suspended from 26/5/09. Target for Pollachi - Palghat section (58kms) is fixed as 30/6/2011, target for Dindigul-Palani section is fixed as 28/2/2011.</p> <p>Contracts for almost all the works are in progress. In the last year 2009-10, as against initial outlay of ₹ 31 crores for this project, finally ₹ 155.00 crores was spent. The obviously resulted in showing down of the project during 2009-10, due to non availability of funds at intermediate stages. In this year also, the final outlay was ₹ 65.00 crores and revised outlay is ₹ 120.00 crores. Even this revised outlay will not be adequate to progress with the work to suit the targets.</p>
4.	Mayiladuturai -Thiruvavarur- Karaikkudi and Tiruturaipundi - Agastiyampalli including restoration of Nidamangalam - Mannargudi line & Mannargudi - Pattukkottai.	90,000	2007-08	In Progress	14,538	34%	<p>Part detailed estimate for Mayiladuthurai-Thiruvavarur (38 KM) was sanctioned by Railway Board on 8/5/2008 for ₹ 136.77 crores. Another part detailed estimate for Thiruvavarur - Tiruturaipundi - Karaikkudi and Tiruturaipundi - Agastiyampalli for ₹ 574.38 crores sent to Rly. Board vide this office letter No.W.193/XII/24/CN dt.24/9/2008 for sanction. Railway Board have advised this Railway to review the estimate critically vide letter No.92/W-I/GC/SR/MKA dt.16/11/2009. Moreover Railway Board have included the restoration of Nidamangalam - Mannargudi line (13.25 Kms) at a cost of Rs.78.44 crores as material modification in 2010-11 Pink Book vide Item No.12.</p> <p>Accordingly the estimate for Thiruvavarur-Tiruturaipundi-Karaikkudi and Tiruturaipundi-Agastiyampalli has been revised and the cost has been pruned down to Rs.506.72 crores and sent to Railway Board on 31/5/2010, along with the detailed estimate for Nidamangalam-Mannargudi line</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
2.0 Gauge Conversion—Contd.							
							<p>at a cost of Rs.62.17 crores. Out of this, part estimate for Nidamangalam - Mannargudi restoration line for Rs 62.17 Crs has been sanctioned. Moreover, construction of Mannargudi - Pattukkottai new line (41 kms) has been approved as material modification to the above project. Mayiladuturai - Thiruvavur section closed on 8/6/2009. Mega tenders for earthwork, bridges, station building and platform work in the section have been finalised, contracts awarded and works are in progress.</p> <p>For Nidamangalam-Mannargudi section, contracts for earthwork, bridges and ballast finalised and work in progress. For other works like station buildings, LCs, track, S&T and electrical, contracts will be finalised in due course. In 2009-10, initial outlay for this project was ₹ 15 Cr. and final expenditure ₹ 36.40 Cr. which resulted in slowing down of works due to non-availability of funds at inter-mediate stages. This resulted in more works to be taken up in 2010-11.</p> <p>Recently, one more new line from Mannargudi to Pattukkottai (41 Kms.) has been approved as Material modification vide Railway Board's letter No.2006/W-1/GC/SR/MKA/PM dated 10/9/2010 at a cost of ₹ 215.59 Cr. FLS and detailed estimate to be done. In 2009-10, initial outlay for this project was ₹ 15 Cr. and final expenditure ₹ 36.40 Cr. which resulted in slowing down of works due to non-availability of funds at inter-mediate stages. This resulted in more works to be taken up in 2010-11.</p>
5.	Madurai - Bodinayakanur (90.41 kms.).	18,272	2008-09	In Progress	45	0%	<p>Detailed estimate for ₹182.72 crores submitted to Railway Board vide this office letter No.W.193/XXII/25/CN dated 25/7/2008. In the latest reference, Board has advised for deletion for provision of Land acquisition and process for long lead items of major bridges etc., and reply sent to Board on 9/2/2009. Railway Board have sanctioned part estimate for ₹ 15.00 crores to preliminary expenses and major bridges vide Railway Board letter No.2005/W1/NL/SR/1 dated 24/2/2009. One Tender for a major bridge No.154 (9x21.2m PSC</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
6.	Tiruchchirappalli - Thanjavur - Nagore - Karaikal (157Kms) with extension Nagappattinam-Velankanni-Tiruthuraipundi via Tirukkuvalai(43 Kms.)	54,896	1995-96	In Progress	45,446	91%	<p>box) has been awarded and work is commenced. One Tender for major bridge No.126 and 135 is under finalisation and another tender for major bridge No.43 & 54 has been called for.</p> <p>(1) Estimate sanctioned: Tiruchchirappalli - Thanjavur - Nagore section - ₹ 109.05 crores on 22/11/1995. Part estimate for Nidamangalam - Mannargudi restoration line for Rs 62.17 Crs. on 3/9/2010.</p> <p>(2) Material Modifications: i) Nagore - Karaikkal (11 kms) - ₹ 33.78 crores on 20/11/2002. ii) Nagappattinam - Vailankanni New Line (10 kms) - ₹ 23.69 crores on 30/5/2002. iii) Nagappattinam - Tiruturaiipundi (via Thirukkuvalai New Line (43 kms.) - ₹ 126.14 cores on 22/7/2008. iv) Additional facilities at Nagore and Nagappattinam - ₹ 4.17 crores on 18/9/2000.</p> <p>(3) Revised estimate sanctioned for ₹ 535.13 crores vide letter No.92/W1/GC/S/25 dL18/6/2010.</p> <p>Sections Opened: i) Tiruchchirappalli - Thanjavur new parallel BG (50 kms.) on 1/1/1998. ii) Thanjavur - Tiruvarur (55kms) on 12/1/2007. iii) Tiruvarur - Nagore (30.37 Kms) on 27/2/2009. iv) Nagore - Karaikkal Port - Freight traffic commissioned on 27/1/2010. v) Nagappattinam - Velankanni (10.3 kms.) - Works completed and the section commissioned for passenger traffic on 20/12/2010.</p> <p>Progress of Works: i) Nagore - Karaikkal: Work completed and engine rolled on 28/3/2011. ii) Nagappattinam - Tiruturaiipundi (via Thirukkuvalai: Proposal for Land acquisition has been submitted to State Government. Tenders will be called after Land is made available. In the meantime, contract for major bridge across Adappar River for a value of ₹ 8.00 cr. has been awarded where there is no land requirement and work just commenced. Contract for bridges at a value of ₹ 34.34 cr. has also been awarded and work commenced.</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
7.	Quilon - Tirunelveli - Tiruchendur & Tenkasi - Virudhunagar - Gauge Conversion (357 Kms.).	1,02,900	1997 - 98	In Progress	65,318	75%	<p><i>Note.</i>—Due to scarcity of sand and water stagnation in earth quarries, work got delayed. Now the track linking is nearing completion. Engine will be taken in the last week of March - 2011.</p> <p>Status of the estimate : Part estimate for Gauge Conversion of Virudhunagar - Tenkasi, Tenkasi-Tirunelveli-Tiruchendur sections was sanctioned by Railway Board for ₹ 327.61 crores on 20/2/2001. Part estimate for Quilon - Punalur section was sanctioned by Board for ₹ 103.24 crores on 22/7/2005. Estimate for Sengottai - Punalur section for ₹ 357.70 crores was sanctioned by Board vide letter No.97/W-1/ GL/S/5 dated 24/11/08.</p> <p>Sections Opened:</p> <ol style="list-style-type: none"> 1) Gauge Converted section between Virudhunagar and Rajapalayam (52 kms.) was opened for passenger traffic on 1/6/2003. 2) Gauge Converted section between Rajapalayam and Tenkasi (69 Kms.) was opened for passenger traffic on 20/9/2004. 3) The section between Tenkasi and Sengottai (8 Kms) opened for passenger traffic on 7/2/2008. 4) The section between Tirunelveli and Tiruchendur (61.21 kms) was opened for passenger traffic on 27/9/2008. 5) The section between Quilon and Punalur (45 Kms.) opened for passenger traffic on 12/5/2010. <p>Sections in progress.</p> <ol style="list-style-type: none"> 1) Tirunelveli - Tenkasi section - Works completed and engine rolled on 31/3/2011. 2) Sengottai - Punalur section - MG traffic has been closed on 20/9/2010 and various works are in progress.
8.	Madurai - Rameswaram - Gauge Conversion (161 kms.)	33,327	1997 - 98	Aug-07	36,264	99%	<p>Status of the estimate: Part detailed estimate for Madurai - Mandapam section was sanctioned by Railway Board for ₹ 173.68 crores on 7/2/2001.</p> <p>Part detailed estimate for GC work between Mandapam and Rameswaram was sanctioned</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							<p>by Railway Board for ₹ 73.29 crores on 17/3/2006.</p> <p>The section between Madurai - Manamadurai was opened for passenger traffic on 30/4/2005</p> <p>The section between Manamadurai and Rameswaram (114 kms.) opened for passenger traffic on 12/8/2007.</p> <p>Residual works are nearing completion.</p>
9.	Thanjavur - Villupuram Gauge Conversion (192 Kms) (RVNL Project).	57,232	1998 - 99	May-10	12,328	100%	<p>Status of the estimate: Part detailed estimate for Thanjavur - Kumbakonam section was sanctioned by Railway Board for ₹ 73.05 Crores on 11/3/2003.</p> <p>Part detailed estimate for Kumbakonam - Villupuram section was sanctioned by RVNL for ₹ 283.83 crores on 22/11/2004. As per Railway Board's letter No. 2004 / W - 1 / RVNL / 22 dated 8/11/2004 Gauge Conversion from Kumbakonam to Mayiladuthurai Jn. is assigned to S. Railway Construction for execution.</p> <p>Thanjavur - Kumbakonam Section (39 kms.) was opened for passenger traffic on 2/5/2004.</p> <p>GC work between Kumbakonam & Mayiladuthurai (31 kms.) has been inaugurated and opened for passenger services on 17/6/2006 and handed over to Division on 27/2/2008.</p> <p>Gauge conversion of Villupuram - Mayiladuthurai (122 kms.) section executed by RVNL. All works completed and section opened for passenger traffic on 23/4/2010. Section dedicated to nation on 10/5/2010 by Shri G.K.Vasan, Hon'ble Union Minister in the presence of other distinguished guests.</p>
10.	Cuddalore - Salem - Gauge Conversion (191 kms) (RVNL Project).	55,664	1999 - 2000	In Progress	25,244	93%	<p>Status of the estimate: Part detailed estimate for Cuddalore - Vriddhachalam section was sanctioned by Railway Board for ₹ 74.01 crores on 30/10/2001.</p> <p>Part detailed estimate for Vriddhachalam-Salem section was sanctioned by Railway Board for ₹ 187.09 crores on 6/1/2004.</p> <p>Vriddhachalam - Vadalur (27 kms.) was opened for traffic on 6/1/2003</p> <p>Vadalur - Cuddalore Port Junction (30 Kms.) was opened for Passenger traffic on 29/12/2003.</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
							<p>The section between Salem and Attur has been executed by RVNL.</p> <p>The full length of project between CUPJ and SA has been brought under the category of "RVNL Project". As authorised by RVNL, works have been taken up by S. Railway between VRI-Attur (83.02 kms.).</p> <p>Vriddhachalam - Salem section (134 kms.) is opened for passenger traffic on 18/11/2007.</p> <p>Material modification estimate for providing new BG line between Chinnasalem and Kallakurichi was sanctioned by Railway Board for ₹ 37.13 crores on 19/1/2006. The State Government has agreed to share 50% of cost vide letter (MS) No. 51 dated 21/02/2007.</p> <p>After representations from public & Hon'ble MP, feasible alignment has been fixed. The requisition for land acquisition has been given to State Government. Tenders will be called for physical execution of works, after getting the land.</p>
11.	Tiruchchirappalli - Manamadurai - Gauge Conversion (150 Kms.)	41,549	2000 - 01	Mar-10	39,141	100%	<p>Status of the estimate: Detailed estimate sanctioned for ₹ 187.91 crores. by Railway Board on 22/5/2002. Material modification estimate for Transshipment and coach maintenance facilities at Tiruvarur, Villupuram, Mayiladuturai and Golden Rock at a cost of ₹ 14.41 crores was sanctioned by Board vide letter No. 2002/W1/GC/SR/1 dated 22/12/2005.</p> <p>The section between Tiruchchirappalli and Pudukottai (53 kms.) was opened for passenger traffic on 5/1/2007 and the section between Pudukottai and Karaikkudi also completed and opened for passenger traffic on 19/5/2007. KKDI - MNM section was inaugurated on 2/7/2008 for passenger traffic and handed over to Open line on 19/3/2010. Residual works completed.</p>
12	Chennai Beach - Tambaram - Chengalpattu Suburban Gauge Conversion (60 kms.) (Under MTP Plan Head)	52,000	1998 - 99	In Progress	43,679	86.55%	<p>This Gauge Conversion work is executed on cost sharing basis and 50% of the cost is shared by Government of Tamil Nadu. This project is executed in stages as below. MG main line between</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
							<p>Chennai Egmore and Tambaram is converted and commissioned for BG passenger traffic on 3-3-2001. Two MG lines from Chennai Beach to Chennai Egmore have been converted into Broad Gauge and opened for passenger traffic in February'2003. The gauge Conversion of B line between Tambaram-Chengalpattu (30 Kms.) has been completed and opened for traffic in Nov. 03. Gauge Conversion works between Chennai Egmore and Tambaram have been completed and opened for traffic on 1/11/2004.</p> <p>1. Provision of 14 ROB/RUBs in lieu of existing level crossings is also part of the project so as to eliminate all the level crossings in the Chennai Beach - Tambaram section. The progress of individual ROB/RUB is as follows:—</p> <p>i) Harrington RUB - completed and commissioned.</p> <p>ii) Rangarajapuram ROB - work is in progress.</p> <p>iii) Rangarajapuram RUB - Contract awarded works are in progress.</p> <p>iv) Jones Road RUB - Work completed and commissioned on 11/12/2009.</p> <p>v) Maduvangarai ROB - Work completed and commissioned.</p> <p>vi) Jain College RUB - Work completed and commissioned on 6/1/2010.</p> <p>vii) Trisulam ROB - Railway portion GAD approved. Tender to be called. Approach GAD under revision.</p> <p>viii) Pallavaram ROB (Goods shed Road) - Railways: Substructure work completed. Superstructure work in progress. Approaches work nearing completion.</p> <p>ix) Pallavaram RUB - Work completed and commissioned.</p> <p>x) Dharga Road RUB - Railway works completed and commissioned on 25/2/2011.</p> <p>xi) Vaishnava College ROB - Work completed and commissioned. on 29/10/2010.</p> <p>xii) Radha Nagar RUB - Works are in progress.</p> <p>xiii) Tambaram Sanatorium ROB -Work completed and commissioned.</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
							<p>xiv) Tambaram - Velachery Road ROB - Railway portion completed and approach on Mudichur side commissioned. Approach work on Velachery side is in progress.</p> <p>2. Cost of the Gauge Conversion is about ₹ 370 crores and cost of the 14 ROB/RUBs is about ₹ 150 crores, totalling ₹ 520 crores.</p> <p>3 (a) The BG link between Chennai Egmore and Chennai Central at a cost of ₹ 90.44 crores (approx.) has been sanctioned as Material modification to the suburban Gauge Conversion project. Final location survey for fixing the alignment has been completed and approval of various yard plans and clearance of Government of Tamil Nadu have been sought to commence the work.</p> <p>(b) CSO/MAS has sought guidance of Board(Adviser/ Safety) on certain operational issues due to infringing gradient, vide letter No.T.143/MAS/MS/ Elevated Line dated 16/7/2004. Board were appraised vide CAO/ CN/MS letter No.W/337/1/122/CN/ Vol.III dated 21/2/2005. Reply from Railway Board in this connection is still awaited.</p> <p>(c) GM/MAS vide his DO letter No.GM/2005/RB dated 28/4/2005 addressed to CRB, has recommended for dropping of this work of BG link between Chennai Central and Chennai Egmore.</p> <p>(d) Railway Board vide their letter No.99/Proj/MAS/2/3 dated 30/8/ 2005 have asked to get the technical feasibility of connection studied through RITES. A consultancy contract has been awarded to RITES for the same vide Railway letter No. W.193/XXII/17/CN dt 23/12/05.</p> <p>(e) Draft report submitted by RITES has been circulated to operating, S & T, Mech & Safety departments of SR for their remarks.</p> <p>(f) RITES has been advised to interact with State Govt agencies like PWD, CMDA & Corporation of Chennai regarding proposed alignment and layout of MAS - MS BG link.</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Concl'd.							
3.0 Doubling							
1.	Mulanturutti - Kuruppantara Doubling (24 kms.)	18,577	Supp. Demands for grants 2005-06	In Progress	4,806	5%	<p>(g) The State Govt. advised that this project is not feasible in view of the Metro Rail Project crossing through Poonamalli High Road.</p> <p>h) RITES submitted their final report. However State Govt. have not cleared the proposal and in lieu of this, the proposal is dropped and Railway Board was advised vide this office letter No. W. 193 / XXII / 17 / CN dated 10/5/2007.</p> <p>Detailed estimate amounting to ₹ 86.46 crores sanctioned by GM vide No.W.193/1/CN/TVC/MNTT-KRPP dated 31/1/2007. Conceptual plans for all the yards approved by CTPM.</p> <p>Requisition for land acquisition for 12 Ha. has been given.</p> <p>Mega tender including Electrical, S&T and other work invited but no response. Work has been awarded for the construction of major bridge No.402 on 6/2/09 and for major bridges Nos.360 & 367 and minor bridges Nos.368 and 388 on 23/3/2009. Br. No.388 - Substructure & superstructure completed. Br. No. 360 & 367 and minor bridges Nos. 368 and 388 on 23/3/2009 Br. No. 388 substructure and substructure completed Br. No. 360 - Substructure completed & superstructure - 1/2 span completed. Br.No.392 - Substructure completed. Superstructure work is in progress. 7/18 piles completed in Br. No.435. All piles and pile load test completed in Br. No.367. In Br. No.368, all piles completed and pile load test 3/3 pile cap completed. In Br. No.402, 69/72 piles 4/8 pile cap completed. Tender has been opened for reach works in Mulanturutti - Piravam Road section and the same has been finalised.</p> <p>General Manager, Southern Railway held a meeting with Chief Minister of Kerala on 10/9/2009, 30/3/2010 and 12/5/2010 to seek assistance from the State Government in executing the Railway Project in Kerala. Situation is expected to improve. Land in Mulanturutti - Piravam Road block is under handing over by the State Government.</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
2.	Chengannur - Chingavanam Doubling (26.5 kms)	22,295	2006-07	In Progress	3,744	5%	<p>Detailed estimate amounting to ₹ 132.25 crores has been sanctioned by GM/MAS.</p> <p>Requisition for land acquisition for 18.88 Ha. has been given & 1.97 Ha. of land has been handed over so far.</p> <p>Tenders for Br. Nos. 148 & 151 were awarded on 19/2/09 and for Br. Nos. 150 & 153 on 28/4/09. For Br. No.150 Sub-structure completed. Superstructure is in progress. For Br. No.153, substructure completed. Superstructure is in progress. Work has been awarded for Bridge Nos 160 & 161 on 30/11/2009. 24/24 piles, pile load test completed for Br. No.151. For Br. No.174, 182 & 197 tenders discharged and retender called. For Br. No.148, 23/48 piles completed. Work has been awarded for Br. Nos.160, 161, 213, 217 & 240.</p> <p>General Manager, Southern Railway held a meeting with Chief Minister of Kerala on 10/9/2009, 30/3/2010 and 12/5/2010 to seek assistance from the State Government in executing the Railway Project in Kerala. Situation is expected to improve. Handing over of land has started in Chengannur - Tiruvalla section.</p>
3.	Kankanadi - Panambur section Patch Doubling (19 kms).	14,920	Supp. Demands for grants 2006-07	In Progress	264	0%	<p>Detailed estimate sanctioned at the cost of ₹ 149.20 crores.</p> <p>Heavy yard work, 700m. tunneling works, 25m. deep cutting for long stretch are involved. Requirement of land for 8.5 km. has been furnished and remaining portion will be furnished to the State Government (Karnataka) shortly. Contracts for certain works, where land is not a problem, have already been fixed at a cost of ₹ 27 cr.</p>
4.	Chengalpattu - Villupuram (103 km) - Doubling	49,821	Supp. Demands for grants 2006-07	In Progress	33,523	10%	<p>Detailed estimate for ₹ 369.41 crores sanctioned by Railway Board vide letter No.2000/W-1/GC/SR/CGL-VM dated 8/4/2008.</p> <p>Operating Branch has requested to do crossing station work at Vikkravandi and Maduranthakam urgently as part of the doubling work and complete the work as</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
							early as possible. The doubling work in Mundiampakkam has been completed, commissioned and handed over to Open Line. The track linking work in three reaches between Chengalpattu & Villupuram has been awarded and works are in progress. Mundiampakkam Yard and Goods shed in Chengalpattu - Villupuram doubling section commissioned and handed over to Open line. Construction of major bridges, minor bridges, Platform, Platform shelter, LCs etc., are in progress. The work of fusion welding awarded. Linking of track in Reaches I, II & III awarded and works are progressing. About 26 hectares of land to be acquired by Tamilnadu state Government and handed over to Railways. Besides, difficulties in getting earth quarry permits affect earth work.
5	Kuruppanthara - Chingavanam (26.54 Kms).	34,515	2007-08	In Progress	505	0%	Final Location Survey completed and detailed estimate prepared and is under Finance vetting. 30 hectares of land will have to be acquired by State Government for which requisition has already been given.
6	Ambalappuzha - Haripad(18.13 Kms)	12,525	2007-08	In Progress	1,078	0%	Estimate for ₹ .107.89 cr. has been sent to Railway Board on 27/1/2011. Agency fixed for final location survey and the same is in progress. Requisition for land acquisition for 16 Hec. has been given. Target can be fixed only after land acquisition is completed. Tenders opened for major bridges. Handing over of land is in progress.
7	Villupuram- Dindigul (with Electrification. 273 Kms).	1,28,000	2008-09	In Progress	84	0%	FLS completed and detailed estimate prepared at a cost of about ₹ 1258.60 cr. and sent to RVNL for further processing and execution of the projects. 151 Hec. of land to be acquired and handed over by Tamilnadu State Government.
8	Tiruvallur-Arakkonam 4th line (26.83 Kms).	7,892	2008-09	In Progress	0	0%	No final location survey is required. Additional land for about 35 hectares will be required. Land requirement has been furnished to the State Government. This work is allotted to RVNL vide Railway Board's letter No.2007/WP/SR/08-09/01 dated 15/7/2008.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
9	Calicut - Mangalore Doubling (221 kms.).	57,937	1995 - 96	In Progress	58,987	97%	Out of 220.54 kms. 218.30 kms. commissioned. Regrading of Cannanore - Valappattinam CRS sanction received and section commissioned on 24/12/2009. For Nethravathi - Kankannadi Doubling work: Estimate sanctioned. Launching of girders for major bridge across Netravati River (23x 21.4m. PSC girder + 4x45.72m Steel girder & 1x27.4m Steel girder) has been completed. The new double line (excluding the bridges) has been completed, cleared by CRS and commissioned on 7/2/2011. The existing line has now been taken up for regrading which will be completed by 31/5/2011. NI working for both the yards (Nethravathi and Mangalore) are planned in May 2011 after which the doubling will be fully commissioned by June 2011.
10	Irugur - Coimbatore Doubling (17.70 kms.).	9,800	1996 - 97	Mar-11	9,104	100%	Detailed estimate sanctioned by Railway Board for ₹ 38.66 crores. The up line between Coimbatore and Coimbatore North (2.7 kms) has been completed and opened for traffic. (14/2/004) . In the remaining stretch also, all the works completed including final NI working in station yard. CRS has conducted statutory inspection of Irugur - Coimbatore section (18 Kms.) on 5/6/2010 and issued authorisation for opening of the project for public carriage. NI working at Pilamedu, Irugur yard has been completed and the section commissioned on 20/8/2010. Section is taken over by Open line on 1/3/2011.
11	Attippattu - Korukkupet Third line (18 Kms.) (RVNL Funded Project, being executed by S.RLY).	14,000	1999 - 2000	In Progress	12,947	81%	Status of the estimate: The detailed estimate for Attippattu - Korukkupet 3rd line was sanctioned by Railway Board for ₹ 70.56 crores on 17/10/2002. For Korukkupet - Ennore (12 kms.) the line is opened to traffic on 9/3/09 and handed over the open line on 9/9/2009. For Ennore to Attippattu (6 kms.) Earth work and bridges completed. Track work is in progress. S&T and OHE works executed along with engineering works.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
12.	Ernakulam - Mulanturutti Doubling (17.37 kms.)	11,083	2001 - 02	Mar-10	9,809	99%	<p>Status of the estimate: Estimate sanctioned for ₹ 41.82 crores by Board on 7/6/2002. Material Modification for Electrification of second line between Ernakulam and Mulanturutti subsection was sanctioned by Railway Board at a cost of ₹ 4.18 crores on 6/10/2005 and the work will be done by RE/Construction.</p> <p>Part work of doubling between C & D cabins at ERS already completed and commissioned on 12/6/2006, IPN line commissioned on 1/5/2007. Works between ERN & C cabin at ERS are in progress.</p> <p>The doubling project between Ernakulam - Mulanturuti has been completed, CRS cleared, NI working at all three stations completed and section has been doubled and commissioned on 26/3/2010.</p>
13.	Pattabiram - Tiruvallur - 4th line (15.06 kms.) and Tiruvallur - Arakkonam 3rd line (26.83 Kms.) (RVNL Project)	7,194	2002 - 03	In Progress	3,764	98%	<p>The quadrupling work of Pattabiram-Tiruvallur section (16kms.) have been completed and opened on 18/9/2004.</p> <p>Works in Tiruvallur - Arakkonam section executed by RVNL. Work completed and Freight traffic has been commenced. CRS inspected the section on 7/3/2010. Authorisation letter received and third line commissioned for passenger traffic on 10/3/2010.</p> <p>Arakkonam Yard: Master plan has recently been finalised taking in to account the Tiruvallore - Arakkonam 3rd and 4th line, Arakkonam - Chengalpattu detour line and also a traffic facility work involving straightening of platform lines. Stage works have also been finalised jointly by all concerned. Agencies have been fixed for carrying out these yard works.</p>
14	Chennai Beach - Korukkupet III line (4.1 kms.)	8,570	2003 - 04	In Progress	32	0%	<p>This work was originally allotted to RVNL for execution. Railway Board vide their letter No. 2005/W1/RVNL/13 dated 7/4/2006 have advised Southern Railway to take up the execution. Action has been taken accordingly. Original detailed estimate at a cost of ₹ 85.70 crores has been sent to Board on 3/8/2007 for sanction. Modified detailed estimate for an amount of ₹ 53.60 crores sent to Railway</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
							<p>Board vide this office letter No. W. 193 / 111 / 20 / CN dated 31/12/2008. Board's queries on estimate have been replied on 25/5/2009 and Board's sanction for the detailed estimate is awaited.</p> <p>Large extent of land has to be acquired from Chennai Port Trust for laying third and fourth line between Chennai Beach and Korukkupet (4 kms.). This is under process by Open line. Railway Board has approved the proposal of land exchange between Chennai Port Trust and Southern Railway vide letter No. 2007 / W-1 / DL / SR / CA / 1 dt. 22/4/2009. After detailed estimate is sanctioned by Board, then new building for Printing Press will be built and existing building will be dismantled and land will be handed over to the port. After this, the port land will be taken over and then only third line project can be commenced. Tenders will be called after sanction of detailed estimate by Railway Board and after getting the land as mentioned.</p>
15	Mavelikara - Kayankulam (7.89 kms)	7,087	2003 - 04	Mar-11	5,913	100%	<p>Status of the estimate: Estimate is sanctioned by GM/MAS for ₹ 26.81 crores on 26/7/2005. All works completed. CRS inspected the section on 26/3/2010. Doubling commissioned on 12/3/2011.</p>
16	Cheppard - Kayankulam (7.76 kms).	6,874	2003 - 04	In Progress	3,659	100%	<p>Estimate has been sanctioned by GM/MAS for ₹ 26.24 crores on 26/7/2005. All the works completed except meagre quantity of ballast collection. The new double line between Cheppard & Kayankulam has been machine packed and engine was run on 22/3/2011. S&T works at Cheppard yard are to be completed before taking up NI work at Cheppard. CRS's inspection is programmed in June 2011.</p>
17	Mavelikara - Chengannur - Patch Doubling (12.3 kms).	10,235	2003 - 04	In Progress	6,380	80%	<p>Estimate for ₹ 48.34 crores has been sanctioned by Board on 7/12/2006. Works are nearing completion. NI works for Chengannur postponed to June 2011. CRS's inspection will be organised before 31/8/2011.</p>

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2011 (₹ in Lakhs)	Physical Progress (%)	Remarks
18	Cheppard - Haripad - Patch Doubling (5.28 kms.)	4,002	2003 - 04	In Progress	2,349	95%	(i) The new double line between Cheppard & Haripad has been machine packed and engine was run on 23/3/2011. S&T works at Haripad yard are in progress. (ii) NI works for Cheppard & Haripad are proposed in June 2011 and CRS's inspection planned before 30/6/2011.
19	Chennai Beach - Attippattu 4th Line (22.1 Kms.)	10,242	2003-04	In Progress	32	0%	This work was originally allotted to RVNL for execution. Railway Board vide their letter No. 2005/W1/RVNL/13 dated 7/4/2006 have advised Southern Railway to take up the execution. Action has been taken accordingly. Original detailed estimate for ₹ 102.42 crores sent to Board vide letter No.W.193/III/19/CN dated 16/10/2007 for sanction. Meanwhile, GM has instructed to delete the works which were not planned originally in the final location survey report in order to reduce the cost and to process for GM's sanction. Accordingly, the detailed estimate has been revised to ₹ 96.14 cr. and GM/MAS has accorded sanction (since the value is less than ₹ 100 cr.) on 23/2/2011). Letter of Acceptance for superstructure of Br. No.44 issued and for other works, tenders are being invited.
20	Madurai - Dindigul (62.205 kms.)	22,872	2003 - 04	Feb-10	21,284	100%	Board have sanctioned the detailed estimate at a cost of ₹ 128.56 crores vide Railway Board letter No.2003/W1/SR/GC/Madurai-Dindigul dated 28/08/2006. The section between Dindigul and Kodaikkanal Road (22 kms.) completed and opened for traffic on 30/9/08. Section handed over to Open Line on 14/9/2009. The section between Kodaikkanal Road and Madurai (40.05 kms.) completed and commissioned on 29/7/2009. Section handed over to Open Line on 12/2/2010.
21	Ernakulam - Kumbalam Patch doubling (7.71 kms.)	7,132	2010-11	In-Progress	7	0%	Estimate is under sanction. Land requirements will be furnished to the State Government by 31/5/2011. Tenders are being called for major bridges.

6. Remodelling and construction of yard**(A) Works Completed**

Sl. No.	Division	Station	Name of work	Estimate cost ₹ in lakhs
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(i) Works costing more than ₹ 5 lakhs each—

1. MAS		Nil		
2. Salem		Nil		
3. Palghat		Nil		
4. Tirvandrum		Nil		
5. Tiruchchirappalli		Nil		
6. Madurai		Tiruhelveli Yard		179.00
7. CN/MS		1. Villupuram yard, work completed.		2,583.00
		2. GC between Kollam-Punalur		10,800.00
		3. MYP yard work completed		1,403.00
8. MTP		Nil		..

(ii) Works costing less than ₹ 5 lakhs each—

1. MAS		Nil		..
2. Salem		Nil		..
3. Palghat		Nil		..
4. Tirvandrum		Nil		..
5. Tiruchchirappalli		Nil		..
6. Madurai		Nil		..
7. CN/MS		Nil		..
8. MTP		Nil		..

(B) Works in progress**(i) Works costing more than ₹ 5 lakhs each—**

1. MAS		Nil		..
2. Salem		Nil		..
3. Palghat		Nil		..
4. Tirvandrum		1. Provision of three line crossing station between Valliyur-Aralvaymoli (North Panankudi).		702.94
		2. Nagercoil Jn.—One single face platform, one stabling line and simultaneous despatch & reception facilities from Trivandrum side.		1,016.84
		3. Kanniyakumari—Proposed additional platform and extension of platform.		398.68
5. Tiruchchirappalli		1. TPJ—Remodelling and additional facilities at Good Shed Yard.		1,266.00
6. Madurai		1. MDU yard		378.00
		2. DG yard		540.00
7. CN/MS		1. GC between Punalur and Edamon.		39.75
		2. MDU yard remodelling		600.00
		3. SA yard		1,200.00
		4. MLMR, MMK, VVN, PEL, MYL, TZD yards & PQM works is in progress.		1,900.00
		5. Thanjavur Jn.—Conversion of road 1 & 2		1,086.35
8. MTP		Nil		..

Sl. No.	Division	Station	Name of work	Estimate cost ₹ in lakhs
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ii) Works costing less than ₹ 5 lakhs each—

1. Chennai		..	Nil	..
2. Salem		..	Nil	..
3. Palghat		..	Nil	..
4. Trivandrum		..	Nil	..
5. Tiruchchirappalli		..	Nil	..
6. Madurai		..	Nil	..
7. CN/MS		..	Nil	..
8. MTP		..	Nil	..

7. Line Capacity Work

Sl. No.	Division	Station	Name of work	Estimate cost ₹ in Lakhs
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I. Provision of New loops**(A) Works completed****(i) Works costing more than ₹ 5 lakhs**

1. MAS		..	Nil	..
2. SA		..	Nil	..
3. PGT		..	Nil	..
4. TVC		..	Nil	..
5. TPJ		..	Nil	..
6. MDU		..	Nil	..
7. CN/MS		..	Nil	..
8. MTP		..	Nil	..

(ii) Works costing less than ₹ 5 lakhs

1. MAS		..	Nil	..
2. SA		..	Nil	..
3. PGT		..	Nil	..
4. TVC		..	Nil	..
5. TPJ		..	Nil	..
6. MDU		..	Nil	..
7. CN/MS		..	Nil	..
8. MTP		..	Nil	..

(B) Works in progress**(i) Works costing more than Rs. 5 lakhs**

1. MAS		..	Nil	..
2. SA		..	Nil	..
3. PGT		..	Nil	..
4. TVC		..	Nil	592.00
5. TPJ		..	TVNL, PRKL and PVN additional loops.	
6. MDU		..	Nil	..
7. CN/MS		..	All yards in DG-POY GC project.	3200.00
		..	All yards in MNM-VPT GC project.	850.00
8. MTP		..	Nil	..

(ii) Works costing less than Rs. 5 lakhs

1. MAS		..	Nil	..
2. SA		..	Nil	..
3. PGT		..	Nil	..
4. TVC		..	Nil	..
5. TPJ		..	Nil	..
6. MDU		..	Nil	..
7. CN/MS		..	Nil	..
8. MTP		..	Nil	..

Sl. No.	Division	Station	Name of work	Estimate cost ₹ in lakhs
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II. Extension of Loops**(A) Works completed****(i) Works costing more than ₹ 5 lakhs**

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

(ii) Works costing less than ₹ 5 lakhs

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

(B). Works in Progress**(i) Works costing more than ₹ 5 lakhs**

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

(ii) Works costing less than ₹ 5 lakhs

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

III. Provision of Crossing Station**(A) Works Completed****(i) Works costing more than ₹ 5 lakhs**

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	ALK three crossing station	454.00
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

(ii) Works costing less than ₹ 5 lakhs

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

Sl. No.	Division	Station	Name of work	Estimate cost ₹ in lakhs
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(B) Works in Progress**(i) Works costing more than ₹ 5 lakhs**

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

(ii) Works costing less than Rs. 5 lakhs

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

IV. Conversion of 'D' station in to crossing station**(A) Works Completed****(i) Works costing more than ₹ 5 lakhs**

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

(ii) Works costing less than ₹ 5 lakhs

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

(B) Works in progress**(i) Works costing more than ₹ 5 lakhs**

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

Sl. No.	Division	Station	Name of work	Estimate cost ₹ in lakhs
(ii) Works costing less than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..
V. Additional Traffic Facilities				
(A) Works Completed				
(i) Works costing more than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	Tirupur - Conversion of road 4 as common loop.	98.07
3.	PGT	..	Nil	..
4.	TVC	..	KLMR - Full rack unloading facility.	283.18
			AFK - Augmentation / releasing capacity to full rake.	410.46
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..
(ii) Works costing less than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..
(B) Works in progress				
(i) Works costing more than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	1)MCRD - Augmentation of Good Shed capacity to full rake.	49.40
			2)Mayanur - Increasing the CSL of Roads (1 & 2) 715 m.	92.00
			3) Salem Market: Augmentation of freight Terminals.	127.35
			4) Cauvery increasing the CSL of road to standard length.	99.95
			5)PLI & HLT - Provision of sand hump.	24.48
3.	PGT	..	Nil	..
4.	TVC	..	NCJ - One single phase PF, one stabling line and simultaneous despatch and reception facilities.	1016.84
			CAPE - Additional PF and extension of PF.	398.68
			Provision of three line crossing station between Valljyur - Aralvaymoli (North Panankudi)	702.94
5.	TPJ	..	TPJ - Development of Terminal facilities.	245.98
			TPJ - Remodelling & Additional facilities at goods yard.	1266.00
6.	MDU	..	Provision of sanded dead end at TON, NRK, TPY & MYN station.	198.80
7.	CN/MS	..	a) KOKG Goods terminal facilities.	650.00
			b) Kuchaveli proposed second coaching terminal facilities.	
8.	MTP	..	Nil	..

GMR-5A

Sl. No.	Division	Station	Name of work	Estimate cost ₹ in lakhs
(ii) Works costing less than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..
VI. Provision of Goods shed, Pit line, etc.,				
(A) Works Completed				
(i) Works costing more than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Thanjavur Jn. Provision of new goods-shed road with separate entry and exit facilities.	30.00
6.	MDU	..	Nil	..
7.	CN/MS	..	Pit line 4 at MDU Jn.	570.00
8.	MTP	..	Nil	..
(i) Works costing less than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..
(B) Works in Progress				
(i) Works costing more than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	CKI - Goods shed improvement and paving of unloading area.	29.65
			OLR - Goods shed improvement and paving of unloading area.	29.65
5.	TPJ	..	Ponmalai yard (GOC) double, entry facility in road 7 and GOC diesel shed.	29.00
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..
i) Works costing less than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CN/MS	..	Nil	..
8.	MTP	..	Nil	..

8. Doubling of Line

Sl. No.	Section & Length	Physical progress	Date of which the section offered		Remarks
			Goods Traffic	Passenger Traffic	
(a) New doubling sanction during the year 2010-2011 (MAS, SA, PGT, TVC, TPJ, MDU & MTP Nil)					
CN/MS 1	Ernakulam - Kumbalam Patch doubling (7.71 kms.).	0%	..	..	New work included in the Budget 2010-11. Estiamte is under sanction. Land requirements will be furnished to the State Government by 31/5/11. Tenders are being called for major bridges.
b) Doubling in progress (MAS, SA, PGT, TVC, TPJ, MDU & MTP Nil)					
CN/MS 1	Mulamturutti-Kuruppantara doubling (24 kms.).	5%	..	..	Detailed estimate amounting to ₹ 86.46 crores sanctioned by GM vide No.W.193/1/CN/TVC/MNTT-KRPP dated 31/1/2007. Conceptual plans for all the yards approved by CTPM.Requisition for land acquisition for 12 Ha. has been given.Mega tender including Electrical, S&T and other work invited but no response. Work has been awarded for the construction of major bridge Nos. 402 on 6/2/2009 and for major bridges Nos. 360 & 367 and minor bridges nos. 368 and 388 on 23/3/2009. Bridge No.388-Substruture & superstructure completed. Br. No.360 - Substructure completed and superstructure - one out of two span completed. Br.No.392 -Substructure completed, superstructure work is in progress. 7out of 18 piles completed in Br. No.435. All piles and pile load test completed in Br.No:367. In Br.No.368, all piles and pile cap completed and pple load test also performed. In Br. No.402, 69/72 piles 4/8 pile cap completed. Tender has been opened for reach works in Mulanturutti - Piravam Road section and the same has been filanised. General Manger, Southern Railway held a meeting with Chief Minister of Kerala on 10/9/2009, 30/3/2010 and 12/5/2010 to seek assistance from the State Government in executing the Railway Project in Kerala. Situation is expected to improve. Land in Mulanturutti - Piravam Road block is under handing over by the State Government.
2	Chengannur - Chingavanam	5%	..	..	Detailed estimate amount to ₹ 132.2 crores has been sanctioned by GM MAS. Requisit for land acquisition for 18.8 Ha. has been given & 1.97 Ha. of lanc has been handed over so far.

Sl. No.	Section & Length	Physical progress	Date of which section offered		Remarks
			Goods Traffic	Passenger Traffic	
3	Kankanadi - Panambur section patch doubling (19 kms.).	0%	..	..	<p>Tenders for Br.Nos. 148 & 151 were awarded on 19/2/09 and for Br. Nos. 150 & 153 on 28/4/09. For Br. No.150 Sub-structure completed. Superstructure is in progress. For Br. No.153, sub-structure completed. Superstructure is in progress. Work has been awarded for Bridge Nos. 160 & 161 on 30/11/2009. Piles, pile load test completed for Br. No: 151. For Br.No.174, 182 & 197 tenders discharged and retender called. For Br.No.148, 23out of 48 piles completed. Work has been awarded for Br.Nos. 160, 161, 213, 217 & 240.</p> <p>General Manager, Southern Railway held a meeting with Chief Minister of Kerala on 10/9/2009, 30/3/2010 and 12/5/2010 to seek assistance from the State Government in executing the Railway Project in Kerala. Situation is expected to improve. Handing over of land has started in Chengannur - Tiruvalla section.</p> <p>Detailed estimate sanctioned at the cost of ₹ 149.20 crores. Heavy yard work, 700 m. tunneling works, 25 m. deep cutting for long stretch are involved. Requirement of land for 8.5 has been furnished and remaining portion will be furnished to the State Government (Karnataka) shortly. Contracts for certain works, where land is not a problem, have already been fixed at a cost of ₹ 27 crores.</p>
4	Chengalpattu - Villupuram (103 kms.) - Doubling.	10%	..	..	<p>Detailed estimate for ₹ 369.41 crores sanctioned by Railway Board vide letter No.2000/W-1/GC/SR/CGL-VM dated 8/4/2008.</p> <p>Operating Branch has requested to do crossing station work at Vikkravandi and Maduranthakam urgently as part of the doubling work and complete the work as early as possible. The doubling work in Mundiampakkam has been completed, commissioned and handed over to open line. The track linking work in three reaches between Chengalpattu & Villupuram has been awarded and works are in progress. Mundiampakkam yard and Goods shed in Chengalpattu - Villupuram doubling section commissioned and handed over to open line.</p> <p>Construction of major bridges, minor bridges, platform shelter, LCs etc. are in progress. The work of fusion welding awarded. Linking of track in Reaches, I, II & III awarded and works are progressing. About 26 hectares</p>

Sl. No.	Section & Length	Physical progress	Date of which section offered		Remarks
			Goods Traffic	Passenger Traffic	
					of land to be acquired by Tamilnadu State Government and handed over to Railways. Besides, difficulties in getting earth quarry permits affect earth work.
5	Kuruppanthara - Chingavanam (26.54 kms.).	0%	..	..	Final location survey completed and detailed estimate prepared and is under Finance vetting. 30 hectares of land will have to be acquired by State Government for which requisition has already been given.
6	Ambalappuzha - Haripad (18.13 kms.).	0%	..	..	New work included in the budget 2007-08, Estimate for ₹ 107.89 cr has been sent to Railway Board on 27/1/2011. Agency fixed for final location survey and the same is in progress. Requisition for land acquisition for 16 Hec. has been given. Target can be fixed only after land acquisition is completed. Tenders opened for major bridges. Handing over of land is in progress.
7	Villupuram - Dindigul (with Electrification - 273 kms.).	0%	..	..	New work included in the Budget 2008-09. FLS completed and detailed estimate prepared at a cost of about ₹ 1,258.60 cr and sent to RVNL for further processing and execution of the projects. 151 Hec. Of land to be acquired and handed over by Tamilnadu State Government.
8	Tiruvallur - Arakkonam 4th line (26.83 kms.).	0%	..	..	New work included in the Budget 2008-09. No final location survey is required. Additional land for about 35 hectares will be required. Land requirement has been furnished to the State Government. This work is allotted to RVNL vide Railway Board's letter No. 2007/WP/SR/08-09/01 dated 15/7/2008.
9	Calicut - Mangalore - Doubling (221 kms.).	97%	..	..	Out of 220.54 kms. 218.30 kms. commissioned. Regrading of Cannanore - Valappattinam CRS sanction received and section commissioned on 24/12/2009. For Nethravathi - Kankannadi Doubling work: Estiamte sanctioned. Launching of girders for major bridge across Netravati River (23x21.4m. PSC girder + 4 x 45.72 m. Steel girder & 1 x 27.4 m Steel girder) has been completed. The new double line (excluding the bridges) has been completed, cleared by CRS and commissioned on 7/2/2011. The existing line has now been taken up for regrading which will be completed by 31/5/2011. NI working for both the yards (Nethravathi and Mangalore) are planned in May 2011 after which the doubling will be fully commissioned by June 2011.

Sl. No.	Section & Length	Physical progress	Date of which section offered		Remarks
			Goods Traffic	Passenger Traffic	
10	Attipattu - Korukkupet third line (18 Kms) (RVNL funded project, being executed by S.Rly.).	81%	..	..	<p>Status of the estimate. The detailed estimate for Attipattu-Korukkupet 3rd line was sanctioned by Railway Board for ₹ 70.56 crores on 17/10/2002.</p> <p>For Korukkupet - Ennore (12 Kms.) the line is opened to traffic on 9/3/09 and handed over to open line on 9/9/2009.</p> <p>For Ennore to Attipattu (6 Kms.) earth work and bridges completed. Track work is in progress. S&T and OHE works executed along with engineering works.</p>
11	Chennai Beach - Korukkupet third line (4.1 kms.).	0%	..	..	<p>This work was originally allotted to RVNL for execution. Railway Board vide their letter No.2005/W1/RVNL/13 dated 7/4/06 have advised Southern Railway to take up the execution. Action has been taken accordingly. Original detailed estimate at a cost of ₹ 85.70 crores has been sent to Board on 3/8/07 for sanction. Modified detailed estimate for an amount of ₹ 53.60 crores sent to Railway Board vide this office letter No.W.193/111/20/CN dated 31.12.08. Board's queries on estimate have been replied on 25/5/09 and Board's sanction for the detailed estimate is awaited.</p>
12	Cheppad - Kayankulam (7.76 kms.)	100%	..	..	<p>Estimate has been sanctioned by GM/MAS for ₹ 26.24 crores on 26/7/2005.</p> <p>All the works completed except meagre quantity of ballast collection. The new double line between Cheppad & Kayankulam has been machine packed and engine was run on 22/3/11. S & T works at Cheppad yard are to be completed before taking up NI work at Cheppad.</p> <p>CRS's inspection is programmed in June 2011.</p>
13	Mavelikara - Chengannur - Patch Doubling (12.3 kms.).	80%	..	..	<p>Estimate for ₹ 48.34 crores has been sanctioned by Board on 7/12/06. Works are nearing completion. NI works for Chengannur postponed to June 2011. CRS's inspection will be organised before 31/8/11.</p>
14	Cheppad - Haripad - Patch Doubling (5.28 kms.).	95%	..	..	<p>(i) The new double line between Cheppad & Haripad has been machine packed and engine was run on 23/3/11. S&T works at Haripad yard are in progress.</p> <p>(ii) NI works for Cheppad & Haripad are proposed in June 2011 and CRS's inspection planned before 30/6/11.</p>

Sl. No.	Section & Length	Physical progress	Date of which section offered		Remarks
			Goods Traffic	Passenger Traffic	
15	Chennai Beach - Attippattu 4th line (22.1 kms.)	0%	..	..	<p>This work was originally allotted to RVNL for execution. Railway Board vide their letter No.2005/W1/RVNL/13 dated 07/4/06 have advised Southern Railway to take up the execution. Action has been taken accordingly. Original detailed estimate for ₹ 102.42 crores sent to Board vide letter No.W.193/III/19/CN dated 16/10/07 for sanction. Meanwhile, GM has instructed to delete the works which were not planned originally in the final location survey reports in order to reduce the cost and to process for GM's sanction. Accordingly, the detailed estimate has been revised to ₹ 96.14 cr. and GM/MAS has accorded sanction (since the value is less than ₹ 100 cr.) on 23/2/11.</p> <p>Letter of Acceptance for superstructure of Br.No.44 issued and for other works, tenders are being invited.</p>

c) Doubling completed
(MAS, SA, PGT, TVC, TPJ, MDU & MTP Nil)

CN/MS 1	Irugur - Coimbatore Doubling (17.37 kms.).	100%	20/8/10	20/8/10	<p>Detailed estimate sanctioned by Railway Board for ₹ 38.66 crores. The up line between Coimbatore and Coimbatore North (2.7 kms.) has been completed and opened for traffic. (14/2/2004). In the remaining stretch also, all the works completed including final NI working in station yard. CRS has conducted statutory inspection of Irugur - Coimbatore section (18 kms.) on 05/6/10 and issued authorisation for opening of the project for public carriage. NI working at Pilamedu, Irugur yard has been completed and the section commissioned on 20/8/10. Section is taken over by Open line on 01/3/2011.</p>
2	Ernakulam - Mulanturutti - Doubling (17.37 kms.).	99%	26/03/10	26/03/10	<p>Status of the estimate. Estimate sanctioned for ₹ 41.82 crores by Board on 07/6/2002. Material modification for Electrification of second line between Ernakulam and Mulanturutti subsection was sanctioned by Railway Board at a cost of ₹ 4.18 crores on 06/10/05 and the work will be done by RE/Construction.</p> <p>Part work of doubling between C & D cabins at ERS already completed and commissioned on 12/6/06, IPN line commissioned on 1/5/07. Works between ERN & C cabin at ERS are in progress.</p> <p>The doubling project between Ernakulam - Mulanturutti has been completed, CRS cleared, NI working at all three stations completed and section has been doubled and commissioned on 26/3/10.</p>

Sl. No.	Section & Length	Physical progress	Date of which section offered		Remarks
			Goods Traffic	Passenger Traffic	
3	Pattabiram - Tiruvallur - 4th line (15.06 kms.) and Tiruvallur - Arakkonam 3rd line (26.83 kms.) (RVNL Project).	98%	..	..	<p>The quadrupling work of Pattabiram - Tiruvallur section (16kms.) have been completed and opened on 18/9/2004.</p> <p>Works in Tiruvallur - Arakkonam section executed by RVNL. Work completed and Freight traffic has been commenced. CRS inspected the section on 7/3/10. Authorisation letter received and third line commissioned for passenger traffic on 10/3/2010.</p> <p>Arakkonam Yard: Master plan has recently been finalised taking into account the Tiruvallore - Arakkonam 3rd and 4th line, Arakkonam - Chengalpattu detour line and also a traffic facility work involving straightening of platform lines. Stage works have also been finalised jointly by all concerned. Agencies have been fixed for carrying out these yard works.</p>
4	Mavelikara - Kayankulam (7.89 kms.)	100%	12/3/11	12/3/11	<p>Status of the estimate: Estimate is sanctioned by GM/MAS for ₹ 26.81 crores on 26/7/05.</p> <p>All works completed. CRS inspected the section on 26/3/10. Doubling commissioned on 12/3/11.</p>
5	Madurai - Dindigul (62.05 kms.)	100%	DG-KQN:30/9/2008 KQN-MDU:29/7/2009		<p>Board have sanctioned the detailed estimate at a cost of ₹ 128.56 crores vide Railway Board letter No.2003/W1/SR/GC/Madurai - Dindigul dated 28/8/2006.</p> <p>The section between Dindigul and Kodaikkanal Road (22 kms.) completed and opened for traffic on 30/9/08. section handed over to Open Line on 14/9/09.</p> <p>The section between Kodaikkanal Road and Madurai (40.05 kms) completed and commissioned on 29/7/09. Section handed over to Open Line on 12/2/10.</p>

9. Siding

Estimate cost (₹ in Lakhs)

Sl. No.	Station	Name of Work	Estimated cost in lakhs	Position as on 31/3/2010
I. Private Sidings—Works completed				
(i) Works Costing more than ₹ 5 lakhs				
1.	MAS	.. Nil		
2.	SA	.. Nil		
3.	PGT	.. Nil		
4.	TVC	.. Nil		
5.	TPJ	.. Nil		
6.	MDU	.. Nil		
7.	CN/MS	.. Nil		
8.	MTP	.. Nil		
(ii) Works costing less than ₹ 5 lakhs				
1.	MAS	.. Nil		
2.	SA	.. Nil		
3.	PGT	.. Nil		
4.	TVC	.. Nil		
5.	TPJ	.. Nil		
6.	MDU	.. Nil		
7.	CN/MS	.. Nil		
8.	MTP	.. Nil		
(ii) Works in progress				
(i) Works Costing more than ₹ 5 lakhs				
1.	MAS	.. Nil		
2.	SA	.. Nil		
3.	PGT	.. Nil		
4.	TVC	.. Nil		
5.	TPJ	.. Nil		
6.	MDU	.. TNHP Marshalling yard. Proposed extension of Railway track at coal stock yard from the existing road Nos. 5 towards the east side to accommodate full rake length.	155.00	
7.	CN/MS	.. Nil		
8.	MTP	.. Nil		
(ii) Works Costing less than ₹ 5 lakhs				
1.	MAS	.. Nil		
2.	SA	.. Nil		
3.	PGT	.. Nil		
4.	TVC	.. Nil		
5.	TPJ	.. Nil		
6.	MDU	.. Nil		
7.	CN/MS	.. Nil		
8.	MTP	.. Nil		

Estimate cost (₹ in Lakhs)

[illegible]

9. Siding

Estimate cost (₹ in Lakhs)

Sl. No.	Station	Name of Work	Estimated cost in lakhs	Position as on 31/3/2010
(ii) Works Costing less than ₹ 5 lakhs				
1.	MAS	.. Nil		
2.	SA	.. Nil		
3.	PGT	.. Nil		
4.	TVC	.. Nil		
5.	TPJ	.. Nil		
6.	MDU	.. Nil		
7.	CN/MS	.. Nil		
8.	MTP	.. Nil		
C) Works under development				
(A) Works completed				
(i) Works costing more than ₹ 5 lakhs				
1.	MAS	.. Nil		
2.	SA	.. Nil		
3.	PGT	.. Nil		
4.	TVC	.. Nil		
5.	TPJ	.. Nil		
6.	MDU	.. Nil		
7.	CN/MS	.. Nil		
8.	MTP	.. Nil		
(ii) Works costing less than ₹ 5 lakhs				
1.	MAS	.. Nil		
2.	SA	.. Nil		
3.	PGT	.. Nil		
4.	TVC	.. Nil		
5.	TPJ	.. Nil		
6.	MDU	.. Nil		
7.	CN/MS	.. Nil		
8.	MTP	.. Nil		
(ii) Works in progress				
(i) Works costing more than ₹ 5 lakhs				
1.	MAS	.. Nil		
2.	SA	.. Nil		
3.	PGT	.. Nil		
4.	TVC	.. Nil		
5.	TPJ	.. Nil		
6.	MDU	.. Nil		
7.	CN/MS	.. Nil		
8.	MTP	.. Nil		
(ii) Works Costing less than ₹ 5 lakhs				
1.	MAS	.. Nil		
2.	SA	.. Nil		
3.	PGT	.. Nil		
4.	TVC	.. Nil		
5.	TPJ	.. Nil		
6.	MDU	.. Nil		
7.	CN/MS	.. Nil		
8.	MTP	.. Nil		

Estimate cost (₹ in Lakhs)

9. Siding

Sl. No.	Station	Name of Work	Estimated cost in lakhs	Position as on 31/3/2010
(D) Railway Siding				
(I) Works Completed.				
(i) Works costing more than Rs. 5 lakhs.				
1.	MAS	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	Nil		
5.	TPJ	Nil		
6.	MDJ	Nil		
7.	CN/MS.	Nil		
8.	MTP	Nil		
(ii) Works costing less than Rs. 5 lakhs.				
1.	MAS	Nil		
2.	SA	Morappur-FCI siding	2.00	
3.	PGT	Nil		
4.	TVC	Nil		
5.	TPJ	Nil		
6.	MDJ	Nil		
7.	CN/MS.	Nil		
8.	MTP	Nil		
Works in Progress.				
(i) Works costing more than Rs. 5 lakhs.				
1.	MAS	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	Nil		
5.	TPJ	Nil		
6.	MDJ	Nil		
7.	CN/MS.	Nil		
8.	MTP	Nil		
(ii) Works costing less than Rs. 5 lakhs.				
1.	MAS	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	Nil		
5.	TPJ	Nil		
6.	MDJ	Nil		
7.	CN/MS.	Nil		
8.	MTP	Nil		

10. Strengthening of Track

ABSTRACT

Sl. No.	Division	Works Completed				Works in Progress			
		less than ₹ 5 lakhs		more than ₹ 5 lakhs		less than ₹ 5 lakhs		more than ₹ 5 lakhs	
		No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).
	All Divisions	1	0.96	36	493.92	..	..	36	1789.26

Sl. No.	Division	Works Completed				Works in Progress			
		less than ₹ 5 lakhs		more than ₹ 5 lakhs		less than ₹ 5 lakhs		more than ₹ 5 lakhs	
		No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).
1	MAS	1	0.96	11	8.46	Nil	Nil	10	44.30
2	SA	Nil	Nil	2	80.00	Nil	Nil	3	202.42
3	PGT	Nil	Nil	9	389.00	Nil	Nil	16	1,218.00
4	TVC	Nil	Nil	Nil	Nil	Nil	Nil	1	188.24
5	TPJ	Nil	Nil	Nil	16.46	Nil	Nil	6	136.30
6	MDU	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
7	CN/MS	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
8	MIP	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total		1	0.96	36	493.92	Nil	Nil	36	1,789.26

11. Fencing

Sl. No.	Division/Station	Name of work	Cost of ₹ (in Thousands)
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(A) Works Completed :-

(i) Works Costing more than ₹ 5 lakhs :-

1.	MAS	Nil	
2.	SA	Construction of boundary wall at MAP, TPT & BQI.	53.86
3.	PGT	Nil	
4.	TVC	Nil	
5.	TPJ	Nil	
6.	MDU	RMM/SE/W/KKDJ-RMM construction of boundary wall to prevent encroachment and tress pass to Railway	36.55
7.	CN/MS	Nil	
8.	MIP	Nil	

(ii) Works Costing less than ₹ 5 lakhs :-

1.	MAS	Nil	
2.	SA	Erode - Fencing around Type II 48 units - barbed wire fencing.	0.80
3.	PGT	Nil	
4.	TVC	ERN - Compound wall. ERG - Boundary wall.	4.88 10.08
5.	TPJ	Nil	
6.	MDU	Nil	
7.	CN/MS	Nil	
8.	MIP	Nil	

Sl. No.	Division/Station	Name of work	Cost of ₹ (in lakhs)
(A) Works in Progress :-			
(i) Works Costing more than ₹ 5 lakhs :-			
1. MAS		Proposed construction of boundary wall (Hallow block) in PER area to avoid encroachments.	84.55
2. SA		(i) SE/P.Way/E/PTJ section - Proposed rail fencing along side the road parallel to track at vulnerable location in between CBF-MTP to a length of 5000 m.	28.74
		(ii) Proposed rail fencing along side the road parallel to track between TUP-VNJ for a length of 5000 m.	28.74
		(iii) SE/P.Way/PTJ section - Proposed rail fencing along side the road parallel to track at vulnerable location in between VNJ-SNO to a length of 4700m.	27.07
		(iv) SE/P.Way/E/PTJ section - Proposed rail fencing along side the road parallel to track at vulnerable location in between SNO-PTJ to a length of 2000m.	11.53
		(v) SE/P.Way/CBF section - Proposed rail fencing along side the road parallel to track at vulnerable location in between CBF-MTP to a length of 3370 m.	19.48
		(vi) SE/P.Way/CBF/CTR section - Proposed rail fencing along side the road parallel to track at vulnerable location in between IGU-CBE to a length of 3430 m.	19.89
		(vii) SE/P.Way/ONR section - Proposed rail fencing along side the road parallel to track at vulnerable location in between MTP-UAM to a length of 1975 m.	13.42
		(viii) SA Dn - Proposed safety barricades to prevent plying of road vehicle close to track.	25.00
		(ix) KRR - Sub division - Repairs to existing steel fencing in way side station.	40.83
3. PGT		Nil	
4. TVC		Nil	
5. TPJ		Nil	
6. MDJ		TEN-TCN Section - Construction of fencing in way side station in TEN-TCN section.	15.00
		RMM station - RMM compound wall to sick line and pit line area along with Railway boundary phase-I	41.83
7. CN/MS		Nil	
8. MIP		Nil	
(ii) Works Costing less than ₹ 5 lakhs :-			
1. MAS		Nil	
2. SA		Nil	
3. PGT		Nil	
4. TVC		NCJ-Provision of mail fencing for a length of 450 m.	4.63
5. TPJ		Nil	
6. MDJ		Nil	
7. CN/MS		Nil	
8. MIP		Nil	

12. Running Shed Facilities

Sl.No.	Division	Station/ Section	Name of work	Cost of ₹ (in lakhs)
(A) Works Completed :-				
(i) Works Costing more than ₹ 5 lakhs :-				
1. MAS	..	Nil.		
2. SA		1. Erode-Improvements to running room.		8.70
		2. OML - Improvements to running room.		8.50
3. PGT	-			
4. TVC	-			
5. TPJ	-			
6. MDJ	-			
7. CN/MS		1. Sick line shed at KCVL (TVC)		230.00
		2. Inspection/Stabling facilities for MEMU's PGT.		608.00
8. MIP	-			
(A) Works Completed :-				
(i) Works Costing less than ₹ 5 lakhs :-				
1. MAS	..	Nil		
2. SA	..	Nil		
3. PGT	..	Nil		
4. TVC	..	Nil		
5. TPJ	..	Nil		
6. MDJ	..	Nil		
7. CN/MS	..	Nil		
8. MIP	..	Nil		

Sl.No.	Division	Station/ Section	Name of work	Cost of ₹ (in lakhs)
(B) Works in Progress :-				
(i) Works Costing more than ₹ 5 lakhs :-				
1.	MAS	Nil		
2.	SA	Salem - Improvements to running room.		9.00
3.	PGT	Nil		
4.	TVC	Nagercoil - Construction of new running room		30.00
5.	TPJ	Villupuram - Combined running room (id:1860/08-09), CE/OL		158.00
6.	MDU	1. Rameswaram - Construction of Ticket Examiners Rest Room with 12 beds in cubical portion, study room, kitchen etc.		80.48
		2. Rameswaram - Construction of Running Room to accommodate 15 beds		9.98
		3. Tirunelveli Jn. - Extension of RR to accommodate 15 beds & 5 beds for Lady Loco Pilots Phase I.		29.71
		4. Nilavittan Station - New Running Room to accommodate 20 beds.		30.00
		5. Tuticorin - New Running Room to accommodate 15 beds.		28.00
7.	CN/MS	1. ACK Coaching terminal in progress (TBM)		1,705.00
		2. Memu shed at QLN.		1,056.00
8.	MTP			

(B) Works in Progress**(i) Works Costing less than ₹ 5 lakhs**

1.	MAS	Nil
2.	SA	Nil
3.	PGT	Nil
4.	TVC	Nil
5.	TPJ	Nil
6.	MDU	Nil
7.	CN/MS	Nil
8.	MTP	Nil

13. Improvements to office stores and workshops

Sl. No.	Division	Station & Name of work	Estimate Cost ₹ (in lakhs)
(A) Works Completed :-			
(i) Works Costing more than ₹ 5 lakhs :-			
1.	MAS	Nil	
2.	SA	i. PTJ - S&T workshop - Installation of Reverse osmosis plant	8.00
		ii. DLS/ED - Proposal for repairs to the flooring on road nos.3,4,5 & 6.	9.00
		iii. PTJ - Improvements to rewiring section inside S&T workshop phase II	29.50
		iv. PTJ Workshop - Improvements to rewiring section inside S&T /TC /PTJ area (Phase I)	29.50
		v. S&T/W/PTJ surroundings by land scaping, improving the waste land inside the workshop by providing roads and garden (id.2128/07-08) CE/OL.	29.00
3.	PGT	Stores Depot - Repairs to shed No.1 in old creosoting plant and creating accommodation for the depot.	19.00
		Reconstruction of office of the SE/PWE/PGT.	16.00
		Divisional office - Proposed improvements to seating arrangements to MES section in Personnel Branch.	15.00
4.	TVC	Nil	
5.	TPJ	Nil	
6.	MDU	Nil	35.38
7.	CN/MS	Dy.CE's/GC/II/O/TPJ office building.	50.00
8.	MTP		

14. Flood Investigation and related subjects 2010-11**A. A Review of Vulnerable Bridges and Reaches:**

a. A special organisation was setup on this Railway in the year 1957 for carrying out review and rehabilitation of vulnerable bridges and reaches as well as for gauging of selected rivers and streams at various locations as per the directives of the Research Design and Standards Organisation/Lucknow for evolving suitable formula to compute flood discharge in various zones.

The Divisions have been carrying out regular critical review of vulnerable bridges and reaches every year and updating the lists of such bridges and reaches.

b. After detailed review by the Divisions, during the year 2010-2011, a total of 244 Nos. have been classified as vulnerable and problematic from consideration of waterway and floods. During the year 2010-2011, Flood Organisation has investigated a total Number of 127 Nos. bridges and reaches including Rebuilding, Breaches, GAD clearance, other reference received from the State Authorities and NOC on flood point of view and respective recommendations were communicated to the Divisions.

B. River Gauging and Survey Works :

During the monsoon of 2010-2011, 5 bridge sites were gauged in the Southern Railway as per the direction of RDSO/LKO. Hydro meteorological data were collected from the 5 bridge sites and were submitted to RDSO/LKO for further analysis.

C. State Committee of Engineers :

Southern Railway is a member in the Co-ordination committee for the safety of the Railway Bridges, track, etc., otherwise known as State Committee of Engineers' of Tamilnadu, Kerala, Pondicherry, Andhra Pradesh and Karnataka.

During the year 2010-11 the above meeting was held for Andhara Pradesh on 7/5/10, Tamilnadu on 7/7/10 and Pondicherry 3/9/10.

D. Draft manual of instruction for the Railway affecting tanks :

The Draft Manual of Instructions for Railway Affecting works prepared in 1964 by the Research Design and Standards Organisation as per the recommendation of Khosla Committee was discussed in the Committee of Engineers in various States. Based on the comments of the State Committee the uniform manual applicable for all the States was prepared by the Research Design and Standards organisation and forwarded to the Railway Board for final approval and to initiate the legislation as recommended by Khosla Committee so that the provision in the Manual could be binding on all the concerned Departments of Central and State Governments.

The Railway Board reconsidered over the matter and in view of the topographical variation and other various local factors has directed the Zonal Railways to discuss the updated Draft Manual in the respective State Committee of Engineer's Meeting and make necessary additions and alterations as mutually agreed upon and approve the same for adopting in the concerned States.

In this connection, the Draft Manual pertaining to Tamilnadu, Andhrapradesh, Karnataka, Union Territory of Pondicherry and Kerala have been approved by the concerned State Governments and Government Orders issued in this respect. Printed manuals pertaining to Andhra Pradesh, Karnataka and Union Territory of Pondicherry have been circulated among concerned officials. The manual pertaining to Kerala and Tamilnadu is under Printing.

Sl. No.	Division	Station & Name of work	Estimate Cost ₹ (in lakhs)
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Works Completed

(ii) Works costing less than ₹ 5 lakhs each.

1	MAS	Nil
2	SA	Nil
3	PGT	Nil
4	TVC	Nil
5	TPJ	Nil
6	MDU	Nil
7	CN/MS	Nil
8	MTP	Nil

(A) Works in Progress :-

(i) Works Costing more than ₹ 5 lakhs :—

1	MAS	Nil	
2	SA	i. DLS/ED - Improvements to natural lighting and asbestos cement. ii. DLS/ED - Construction of covered shed for BOSCH tank. iii. Erode Jn - Re-construction of old, tin sheet roofed, inadequate TL/AC maintenance depot. iv. Mettupalayam - Basic infrastructural facilities for NMR coach & Loco maintenance (id.1000/09-10) CE/OL. v. ED/Diesel shed - Replacing existing roofing AC sheets in Diesel. vi. S&T workshops/PTJ. Provision of galvalume sheets in place of asbestos sheet roof of various shops at S&T workshops/PTJ.	17.64 18.00 29.70 156.00 50.00 50.00
3	PGT	1. TIR - Proposed construction of SE/PW/TIR office. 2. PGT - Conversion of TRD office into DFM office.	22.35 15.00
4	TVC	Quilon - Construction of AEN office.	35.38
5	TPJ	1. Provision of a new DEMU sick line at BG coaching complex. 2. VRI - Construction of TXR office of size 16.5x6.5m in between PF No.1 & 2.	30.00 13.00
6	MDU	Nil	
7	CN/MS	1. BBQ - Removal of deficiency of coach maintaining infrastructure. 2. PER Loco works modernisation of workshop. 3. PER - Modernisation of Elec. Workshop on Techno economic basis. 4. PER - CWS - extension of paint shop from line 1 to 9 eastern side. 5. RPM - Expansion of AC loco shed from holding capacity of 50-100 locos. 6. Erode - AC locoshed 120-175 locos.	699.00 3370.73 498.42 1605.09 1573.29 1274.00
8	MTP	Nil	

(A) Works in Progress :-

(i) Works Costing less than ₹ 5 lakhs :—

1.	MAS	Nil
2.	SA	Nil
3.	PGT	Nil
4.	TVC	Nil
5.	TPJ	Nil
6.	MDU	Nil
7.	CN/MS	Nil
8.	MTP	Nil

E. Breaches and washawaysDetails of breaches and washaways occurred during the year 2010-11 as follows:-

Section	Date	Month	Year	Location	Remarks
<u>CHENNAI DIVISION</u>					
MAS-AJJ	7	11	2010	Br.172 @ 57/2-4	Approaches Sunk
<u>PALAKKAD DIVISION</u>					
MAQ-PNMB	26	6	2010	9/200-300	25m. track covered with 2 ft. height of earth and boulder.
MAQ-PNMB	26	6	2010	9/300-400	30m. stone retaining wall and pitching fallen inside the cutting.
MAQ-PNMB	26	6	2010	9/400-500	20m. stone retaining wall and pitching fallen inside the cutting.
MAQ-PNMB	29	6	2010	9/200-500	Earth and boulder slips and retaining wall fallen.
MAQ-PNMB	15	7	2010	9/300-400	At km. 9/300-400, landslip occurred and boulders were infringing the track due to collapse of 3m. high, 1m. wide retaining wall for a length of 10m. Side drain was filled with debris.
MAQ-PNMB	15	7	2010	9/300-400	Water overflowed the track above rail level, as the side drain is not fully cleared due to heavy downpour.
<u>TIRUVANANTHAPURAM DIVISION</u>					
ERSKTYM-KYJ-QLN	24	9	2010	18/500-600	Land Slips.
TVC-NCJ	16	11	2010	254/800-900	Minor Earth Slips
TVC-NCJ	8	12	2010	254/500-600	Earth fallen 25m. x3 m. x 1.5m.
TVC-NCJ	8	12	2010	260/700-800	Earth fallen 30 cu.m. (RR masonry Retaining Wall).
TVC-NCJ	8	12	2010	268/500-600	Earth fallen 25 cu.m. RCC Retaining wall of 10m. x 2.5m. x 0.25m. sheared and collapsed
TVC-NCJ	8	12	2010	256/800-900	Minor Slips
TVC-NCJ	8	12	2010	257/400-600	Minor Slips
TVC-NCJ	8	12	2010	241/900	Minor Slips
TVC-NCJ	8	12	2010	237/021	Soil Erosion
TVC-NCJ	9	12	2010	262/300-400	Earth slips About 150 m. length ; Approximately 6000 cu.m. of earth due to heavy rain. (238mm.(8/12/10) & 183mm. (9/12/10)
NCJ-CAPE	8	12	2010	5/450-550	Entire Ballast below Sleeper washed out.Water level 2' above Rail level
NCJ-CAPE	8	12	2010	5/560-600	Ballast washed out 0'-6" below Sleeper
NCJ-CAPE	8	12	2010	5/625-650	Scattered.washed out of ballast for a length of 25m.
NCJ-TEN	8	12	2010	311/600-700	Ballast washed out approximately 20m. length
<u>SALEM DIVISION</u>					
MTP-UAM	2	10	2010	12/8-9	Boulder fall
MTP-UAM	11	10	2010	21/7-9	Earth And Boulder Fall.
MTP-UAM	11	11	2010	27/7-9	Land Slips.
MTP-UAM	23	11	2010	10/3-4	Earth And Boulder Fall.
MTP-UAM	23	11	2010	13/8-9	Earth And Boulder Fall.
VRI-SA	26	11	2010	74/5-75/7	Failure of slope of embankment including subsidence of cess at the edges in 20 locations as maximum of 18m. length and 2m. in depth.
MTP-UAM	24	2	2011	12/8-9	Boulder fall
MTP-UAM	25	2	2011	9/3-4	Earth And Boulder Fall.

Section	Date	Month	Year	Location	Remarks
<u>TIRUCHCHIRAPPALLI DIVISION</u>					
VM-TPJ (Main)	27	11	2010	240/300-700	Water level of Vellar River at Cess level due to surplus from Veeranam Tank and Bhuvanagiri Dam.
CUPJ-VRI	26	11	2010	3/7-9	Water flowed at 60mm. below Rail level.
CUPJ-VRI	27	11	2010	CUPJ	Cuddalore Railway Quarters flooded. Cuddalore recorded 320mm. rainfall.
CUPJ-VRI	27	11	2010	8/2-3	Water flowed over the track and Ballast washed away for a total length of 17m. in 3 locations.
<u>MADURAI DIVISION</u>					
TSI-QLN	24	6	2010	705/3-4	Boulder Fallen.
TSI-QLN	27	9	2010	715/2-3	Earth slip
TPJ-MDU	23	11	2010	459/500-600	Sinkage of formation up to 2m. length, 5 sleeper hanging. Ballast eroded.

F. List of bridges / reaches investigated category wise (2010-11)

SL.No.	Division	Section	Br.No	Exg.Span	Km	Description
1.	TPJ	TTP-KKDI	427	1x0.91m SD	112/7-8	Breaches
2.	TPJ	TTP-KKDI	99/600 -100/900		99/600 -100/900	Breaches
3.	MAS	MAS-GDR	230	2x0.91m SD	110/18-20	Rebuilding
4.			Ambaturai cutting			Land slip
5.		VM-TPJ (chord)	129			
6.	SA	SA-VRI	215	2 x 3.67m PSC	162/000-200	PCE Inspection Notes
7.	TVC	ERS-KTYM-KYJ			18/500-600	
8.	MDU	MEJ-TN	TN yard			Flooding
9.	MDU	MEJ-TN	T-33	1x0.61m. SD	653/300-400	Rebuilding
10.	MAS	MAS-GDR	120 DN	1 x 0.91m. SD	46/36-38	Rebuilding
11.	MAS	MAS-GDR	152 DN	2x0.46m. A	73/4-6	Rebuilding
12.	MAS	MAS-GDR	153 DN	2x0.46m. A	73/8-10	Rebuilding
13.	MAS	MAS-GDR	154 DN	2x0.46m. A	73/22-24	Rebuilding
14.	MAS	MAS-GDR	155 DN	2x0.46m. A	73/28-30	Rebuilding
15.	MAS	MAS-AJJ	49 UP & DN	1x0.46m. RC	11/20-22	Rebuilding
16.	MAS	MAS-AJJ	50 UP & DN	1x0.51m. A	11/24-26	Rebuilding
17.	MAS	MAS-AJJ	51 UP & DN	1x0.51m. RP	11/31-33	Rebuilding
18.	MAS	MAS-AJJ	52 UP & DN	1x0.53m. RP	12/10-12	Rebuilding
19.	MAS	MAS-AJJ	53 UP & DN	1x0.91m. A	12/19-21	Rebuilding
20.	MAS	MAS-AJJ	56 UP & DN	1x0.46m. A	13/11-13	Rebuilding
21.	MAS	MAS-AJJ	82 UP & DN	1x0.91m. RCB	26/21-23	Rebuilding
22.	MAS	MAS-AJJ	86 UP & DN	1x1.0m. RP	27/19-21	Rebuilding
23.	MAS	MAS-AJJ	91 UP & DN	1x1.00m. RP	28/12-14	Rebuilding
24.	MAS	MAS-AJJ	94 UP & DN	1x0.91m. RCB	28/30-32	Rebuilding
25.	MAS	MAS-AJJ	100 UP & DN	1x1.00m. RP	31/6-8	Rebuilding
26.	MAS	MAS-AJJ	102 UP & DN	1x0.61m. RS	32/11-13	Rebuilding
27.	MAS	AJJ-JTJ	449 UP & DN	1x0.61m. SD	151/9-11	Rebuilding
28.	MAS	AJJ-JTJ	477 UP	1x0.91m. SD	157/17-19	Rebuilding
29.	MAS	AJJ-JTJ	478	1x0.61m. SD	157/17-19	Rebuilding
30.	MAS	AJJ-JTJ	481 UP	1x0.91m. SD	158/9-11	Rebuilding
31.	MAS	AJJ-JTJ	483 UP	1x0.91m. SD	158/17-19	Rebuilding
32.	MAS	AJJ-JTJ	501	1x0.91m. SD	165/9-12	Rebuilding
33.	MAS	AJJ-JTJ	485 UP	1X0.91m. SD	159/1-3	Rebuilding
34.	MAS	AJJ-JTJ	508 UP	2X0.91m. SD	168/7-9	Rebuilding
35.	MAS	AJJ-JTJ	510 UP	1X0.91m. A	169/3-5	Rebuilding
36.	MAS	AJJ-JTJ	538 UP	1x0.91m. SD	184/19-21	Rebuilding
37.	MAS	AJJ-JTJ	539 UP	1x0.91m. SD	184/29-185/1	Rebuilding
38.	MAS	AJJ-JTJ	542 UP	1x0.91m. SD	186/1-3	Rebuilding
39.	MAS	AJJ-JTJ	543 UP	1x0.91m. SD	186/27-187/1	Rebuilding
40.	MAS	AJJ-JTJ	561 DN	1x0.91m. SD	194/16-18	Rebuilding
41.	MAS	AJJ-JTJ	563 DN	1x0.91m. SD	195/4-6	Rebuilding
43.	SA	SA-MTDM	8	2 X 1.22m. SD	5/1-2	Rebuilding

SL.No.	Division	Section	Br.No	Exg.Span	Km	Description
44.	SA	SA-MTDM	9	1 X 0.91m. SD	5/9-10	Rebuilding
45.	SA	SA-MTDM	13	1 X 0.91m. SD	7/2-3	Rebuilding
46.	SA	SA-MTDM	16	1 X 0.91m. SD	8/2-3	Rebuilding
47.	SA	SA-MTDM	19	1 X 0.91m. SD	8/7-8	Rebuilding
48.	SA	SA-MTDM	21	1 X 1.22m. SD	10/8-9	Rebuilding
49.	SA	SA-MTDM	28	1 X 1.22m. SD	17/11-12	Rebuilding
50.	SA	SA-MTDM	29	1 X 1.22m. SD	17/19-18/1	Rebuilding
51.	SA	SA-MTDM	30	1 X 1.22m. SD	18/13-14	Rebuilding
52.	SA	SA-MTDM	31	2 X 0.91m. SD	19/2-3	Rebuilding
53.	SA	SA-MTDM	33	1 X 1.22m. SD	20/5-6	Rebuilding
54.	SA	SA-MTDM	37	1 X 0.91m. SD	22/14-15	Rebuilding
55.	SA	SA-MTDM	40	1 X 0.91m. SD	24/14-15	Rebuilding
56.	SA	SA-MTDM	41	1 X 1.22m. SD	24/22-25/1	Rebuilding
57.	SA	SA-MTDM	42	1 X 1.22m. SD	27/3-4	Rebuilding
58.	SA	SA-MTDM	44	1 X 0.91m. SD	40/451	Rebuilding
59.	SA	JTJ-ED	85 UP & DN	1 X 9.14m. A	258/24-26	Rebuilding
60.	SA	JTJ-ED	100	2 X 0.61m. SD	264/6-8	Rebuilding
61.	SA	JTJ-ED	120	1 X 1.83 m. A	275/3-5	Rebuilding
62.	SA	JTJ-ED	158 UP	1 X 0.61m. SD	291/19-21	Rebuilding
63.	SA	JTJ-ED	160 UP	3 X 0.76m. SD	292/5-7	Rebuilding
64.	SA	JTJ-ED	163 UP	1 X 2.74m. A	293/15-17	Rebuilding
65.	SA	JTJ-ED	164 UP	1 X 4.57 m. A	293/17-19	Rebuilding
66.	SA	JTJ-ED	167	1 X 0.61m. SD	294/11-13	Rebuilding
67.	SA	JTJ-ED	171 UP	2 X 0.76m. SD	296/9-11	Rebuilding
68.	SA	JTJ-ED	174 UP	2 X 0.76m. SD	298/5-7	Rebuilding
69.	SA	ED-TP	132	1 X 0.91m. RP	76/383	Rebuilding
70.	SA	ED-TP	133	1 X 0.91m. RP	76/600	Rebuilding
71.	SA	ED-TP	85	1 X 0.61m. A	103/100-200	Rebuilding
72.	SA	ED-TP	88	1 X 0.61m. A	102/600-700	Rebuilding
73.	SA	ED-TP	91	1 X 0.61m. A	102/200-300	Rebuilding
74.	SA	ED-TP	209	2 X 1.22m. SD	41/900-42/000	Rebuilding
75.	SA	ED-TP	274	1 X 0.61m. SD	30/000-100	Rebuilding
76.	SA	ED-TP	281	1 X 0.46m. SD	29/100-200	Rebuilding
77.	SA	ED-TP	301	1 X 0.91m. SD	27/100-200	Rebuilding
78.	TPJ	TP-TPJ	8	1 X 3.05 m. A	38/800-900	Rebuilding

Clearence of GADs of Major Bridges on Flood Point of View

Sl. No.	Division	Section	Br.No.	reference from	Sl. No.	Division	Section	Br.No.	reference from
79.	TVC	ERS-KYJ	402	CN	95.	TPJ	VM-TPJ	274	RVNL
80.	TVC	ERS-KYJ	148	CN	96.	TPJ	VM-TPJ	276	RVNL
81.	MDU	MDU-BDNK	154	CN	97.	TPJ	VM-TPJ	280	RVNL
82.	MDU	MDU-BDNK	126	CN	98.	TPJ	VM-TPJ	108	RVNL
83.	MDU	MDU-BDNK	135	CN	99.	TPJ	VM-TPJ	120	RVNL
84.	MDU	MDU-BDNK	165	CN	100.	TPJ	VM-TPJ	165	RVNL
85.	MDU	MDU-BDNK	43	CN	101.	TPJ	VM-TPJ	188	RVNL
86.	MDU	MDU-BDNK	54	CN	102.	TPJ	VM-TPJ	194	RVNL
87.	MAS	CGL-VM	222	CN	103.	TPJ	VM-TPJ	197	RVNL
88.	MAS	CGL-VM	227	CN	104.	TPJ	VM-TPJ	213	RVNL
89.	MAS	TMV-Nagari	85	CN (for parallel B.G bridge)	105.	TPJ	VM-TPJ	219	RVNL
90.	PGT	SRR-MAQ	925	CN	106.	TPJ	VM-TPJ	220	RVNL
91.	TPJ	VM-TPJ	260	RVNL	107.	TPJ	VM-TPJ	252	RVNL
92.	TPJ	VM-TPJ	247	RVNL	108.	TPJ	VM-TPJ	294	RVNL
93.	TPJ	VM-TPJ	261	RVNL	109.	TPJ	VM-TPJ	288	RVNL
94.	TPJ	VM-TPJ	272	RVNL	110.	TPJ	VM-TPJ	393	RVNL
					111.	TPJ	VM-TPJ	318	RVNL
					112.	TPJ	VM-TPJ	375	RVNL
					113.	TPJ	VM-TPJ	383	RVNL
					114.	TPJ	VM-TPJ	33	RVNL
					115.	TPJ	VM-TPJ	34	RVNL

Sl. No.	Division	Section	Br.No.	reference from
116.	TPJ	VM-TPJ	47	RVNL
117.	TPJ	VM-TPJ	121	RVNL
118.	TPJ	VM-TPJ	128	RVNL
119.	TPJ	VM-TPJ	374	RVNL
120.	TPJ	VM-TPJ	78	RVNL
121.	TPJ	VM-TPJ	35	RVNL
122.	TPJ	VM-TPJ	129	RVNL
123.	TPJ	VM-TPJ	137	RVNL
124.	TPJ	VM-TPJ	181	RVNL
125.	TPJ	VM-TPJ	379	RVNL
126.	TPJ	VM-TPJ	397	RVNL
127.	MDJ	TPJ-DG	1236	RVNL

14B-Rehabilitation of Bridges : 2010-11

Sl. No.	Name of Work	No. of Bridges where work has been completed.	No. of Bridges where work in progress.
14.B	(a) Regirdering: (i) Replacement of weak/corroded girders with new girders. (ii) Strengthening of weak/ corroded girders (b) Replacement of existing girders/ timber top with RCC slab. (c) Strengthening of sub-structure only (d) Repl of exg weak/corroded girders with new girders including strengthening of sub-structure. (e) Rebuilding of existing weak bridges (f) Miscellaneous bridge works including provision of centralised bearing, renewal of bed-blocks, etc. Total of items (a) to (f)	7 0 12 9 0 47 3 78	0 0 0 0 20 0 20
14.C	Extension of existing bridges	0	0
14.D	Construction of new bridges	0	0

Para-14E(1)-(A) WORKS COMPLETED - ROB/RUB TAMILNADU - COST SHARING

S.No	Description of work
1.	Perundurai (LC 126)
2.	Pattabiram (LC 10)
3.	Thiruninravur (LC 12)
4.	Sellur (bet. Kudal nagar & Madurai - LC:363)
5.	Melpakkam (LC:32A & 685B)

TAMILNADU - GAUGE CONVERSION

1. Tambaram Sanitorium (LC 29) ROB
2. Vaisnavva College (LC26 Radial Road) ROB
3. Pallavaram-Darga Road (LC No:25) RUB
4. Tambaram (LC-30) ROB

KERALA - COST SHARING

1. ROB at Pullepady (LC 73)
2. ROB at Manampuzha (LC 159) LAW
3. ROB at Athani (LC 13)
4. ROB at Bakel (LC 276)

(b) Works In Progress-Road Over Bridges and Road Under Bridges Tamilnadu - Cost Sharing

S.No	Description of work
1.	ROB in lieu of LC.No.1(A) @ km. VK./6- VK.7 bet Vyasarpadi Jeeva - Korukkupet.
2.	ROB in lieu of LC:1 at km 1/700 - 800 bet Chengelpet - Palayaseevaram.
3.	RUB in lieu of LC.No.2 @ km 9/24 - 26 bet Villivakkam - Ambattur.
4.	ROB in lieu of LC.No.5 @ km 13 /4-6 bet Korattur - Pattaravakkam stations.
5.	ROB in lieu of LC: 5 @ km 3/1-2 bet Dindigul - Akkaraipatti
6.	RUB in lieu of LC.No.5 @ km BB.2/7 -9 bet Royapuram - Washermanpet.
7.	ROB in lieu of LC: 9 @km. 10/19-21 bet Pelamedu & Coimbatore North.
8.	ROB between Vyasarpadi and Korrukkupet (NE-21 / 11R)
9.	ROB in lieu of LC No.14 at km. 32/10 - 12 in bet Thiruninravur - Tiruvallur.
10.	ROB in lieu of LC No 21 @ km.21/43 - 45 in bet Coimbatore and Podanur.
11.	ROB in lieu of L.C.No.32B at km.287/600-700 bet Eraniel - Nagercoil.
12.	LC.No.33 @ km. 44/28 - 30 between Kavarapettai - Gummudipundi stations.
13.	ROB in lieu of LC No.36 at Km. 35/30-32 Vandalur - Guduvanchery (Revised).
14.	ROB in lieu of LC No.37 (Urapakkam) @ km 37/2A - 4 I
15.	ROB in lieu of LC no.37 at km 49/4-6 bet Gummidipoondi - Elavur.
16.	ROB in lieu of LC No.40 @ km.40/ 2 - 4 bet Urapakkam and Guduvancheri.
17.	ROB in lieu of LC No.45A & 45B @ km.101/18 - 21 bet Marudhalam and Walaja Road.
18.	ROB in lieu of L.C.No.50 @ km 120/14-16 bet Tiruvalam and Sevrur.
19.	ROB in lieu of L.C.No.54 @ km 61/3 - 4 bet Chengalpattu and Thirumani.
20.	ROB in lieu of LC: 63 @ km. 150/22 - 24 bet Kavanur - Gudiyatham.
21.	ROB in lieu of LC:69 (Valathur Yard) at km. 163/15-17
22.	ROB in lieu of LC No.69 at Km. 84/21 & 85/1-Maduranthakam
23.	ROB in lieu of L.C. No 88 @ km. 217/8 -10 bet Jolarpettai - Tirupattur.
24.	ROB in lieu of L.C. No 89 @ km. 218/32-219/2 bet Jolarpettai - Tirupattur.
25.	ROB in lieu of exg. LC No.95 at km. 92/16-17 bet. Udumalapettai - Gomangalam.
26.	ROB in lieu of LC No.105 at Km. 288/8 - 10 bet Buddireddipati- Bommidi.
27.	ROB in lieu of L.C. No118 @ km 120/7 - 8 bet Gomangalam and Pollachi.
28.	ROB in lieu of LC.No. 130 @ km. 435/12-14 bet Uthukuli - Thirupur.
29.	RUB in lieu of LC:133 at km. 441/10-12 bet Uthukuli & Thiruppur

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30. ROB in lieu of LC:134 (Vanchipalayam Yard) at km. 450/13-15
31. ROB in lieu of LC No. 139 @ km. 459/30-32 in Somanur yard
32. ROB in lieu of LC No.143 @ km. 468/18 - 20 in Sular Road yard.
33. ROB in lieu of LC No.144 (Irugur yard) @ km. 475/22 - 24
34. ROB in lieu of LC:150 @ km. 488/30-489/2 bet Podanur - Madukkarai.
35. ROB in lieu of LC:151 at km. 490/10-12 bet Pothanur & Madukkarai.
36. ROB in lieu of LC:156 at km. 198/8-9 bet Ulundurpet & Puvanur
37. ROB in lieu of LC No.166 @ Km. 211/300 - 400 bet Cuddalore port and Capper Quarry.
38. ROB in lieu of L.C.170 at Km.218/700-800 bet Virudhachalam-Talanallur.
39. ROB in lieu of LC No.181 @ Km. 236/1-2 in between Pennadam - Mathur.
40. ROB in lieu of L.C. No. 216 (Sirkazhi) @ km. 262/600 in between Kollidam and Sirkazhi.
41. ROB in lieu of LC No.228 at Km. 313/3-4
42. ROB in lieu of LC:248 at km. 341/3-4 bet Srirangam & Tiruchchirappalli Town.
43. ROB in lieu of L.C.No 279 at km. 375/800-900 bet Samudram - Manapparai.
44. ROB in lieu of LC:281 at km. 377/100 - 200 bet Manapparai - Chettipatti.
45. ROB in lieu of L. C. No. 303 (Titte) @ km. 353/1-2 in between Titte and Thanjavur stations.
46. ROB in lieu of L.C. No.309 @ km. 372/7-8 in between Budalur and Solamgampatti stations.
47. ROB in lieu of LC:325 at Km.406/13-14 bet Tiruchchirappalli-Kumaramangalam.
48. ROB in lieu of L.C. No 366 @ km. 496/16 - 497/1 bet Tiruparankundram and Madurai stations.
49. ROB in lieu of L.C.no.370 at km. 500/6-7 bet Madurai & Tiruparankundram.
50. ROB in lieu of LC No 502 @ km. 660/ 8 - 9 bet Tenkasi and Sengottai.

TAMILNADU - GAUGE CONVERSION

1. MAS division - Proposed RUB in lieu of LC No.7 (Rangarajapuram) in Chennai Beach - Tambaram section at Km.10/7-8 IN Rangarajapuram main Road (Chennai Corporation).
2. MAS Division - Proposed 1 x 20 & 1 x 45 m. PSC Box girder & Bow string girder ROB in lieu of LC No.24. (Pallavaram) @ Km. 22/15-16 in Chennai Beach - Tambaram section in Goods Shed Road.
3. MAS Division - Proposed 1 x 4 m. RCC Box Subway in lieu of LC No.27 (Radha Nager) @ Km 25/3-4 in between Pallavaram - Chrompet in Chennai Beach - Tambaram section.
4. MAS Division - Proposed ROB in lieu of LC No.30 (Tambaram) @ Km. 29/9-10 in Chennai - Beach Tambaram section between TBM & Perungalathur stations in Velachery Road.

KERALA - COST SHARING

1. ROB in lieu of LC No. 14 (Mulankunnath Kavay yard) @ km. 23/100 - 200 bet Punkunam - Mulangunathukavu.
2. ROB in lieu of LC No 49 (Sultanpet) @ Km. 53/10-11 bet Pudunaganagaram and Palghat Town.
3. RUB in lieu of LC No.50 (Karukutty) @ km. 64/200 - 300 bet Chalakkudy - Karukutty.

4. ROB in lieu of L.C.No.54 (Korattiangadi) @ Km. 67/13-14 bet Divine Nagar - Korattiangadi.
5. ROB in lieu of LC No 201 (West hill) @ km. 688/100 - 200 bet Elathur and Quilandi.
6. ROB in lieu of LC No. 216 (Kinnatty) @ km.714/900-715/0 betw Badagara - Mukali.
7. ROB in lieu of LC No.217 (Kunjipally) @ Km. 721/400 - 500 bet Mahe - Badagara.
8. ROB in lieu of LC No.261 (Payyanur) @ km.787/15 bet Payyanur and Thrikkarippoor.
9. ROB in lieu of L.C. No.272 (Padanakad) @ km.810/1-2 on NH.17. bet Kanhangad and Nileshwar.
10. ROB in lieu of LC No.541 (Mayyanad - SP.Gate) @ km. 156/ 8-9 bet Quilon and Mayyanad.

ANDHRA PRADESH - COST SHARING

1. MAS Division - Proposed ROB in lieu of LC.No. 58 @ km. 111/ 10-12 between Puttur - Taduku stations in AJJ - RU section.

Para-14e(ii)-(b).works In Progress - ROB/RUB Tamilnadu - Deposit-NHAI

S.No Description of work

1. Proposed construction of four laning of ROB @ km 7/500 between Karur - Vellalai stations in KRR-DG section.
2. Pro. Four / six laning of Salem Ulundurpet Section on NH 68. Pro. ROB at Valappady Bypass @ km.161/672.
3. Pro.ROB between Ponmalai and Srirangam (ROB) 397A in NH-67 @ km. 135/100.
4. Pro.ROB @ Tiruverumbur ROB (No.1108) @ km. 8/780 in NH - 67.
5. Proposed construction of four laning of ROB @ km 346/0 between Tiruchchirappalli-Poongudi stations.

Para-14-e(ii)-(a).works Completed - ROB/RUB Tamilnadu - Deposit-NHAI

S.No Description of work

1. Bet. Narikudi - Aruppukottai
2. Kanniyakumari
3. Pro. Four / six laning of Salem Ulundurpet Section on NH 68.Pro.ROB at Thalavasi. @ km.129/946
4. Aralvaimozhi & Valliyur (Kavalkinaru)

Para: 14 E) (iii) Other Bridge works done on Deposit terms.

a) Works completed:

- i) No. of bridges: 2

b) Details : MDU Divisions

(1) Construction of new Water way Bridge No. 78A (IX 3.2m. RCB) at Km. 38/100-200 under deposit terms for EE/PWD/WR on MDU-BDNK section.

(2) Construction of new Bridge No. 174 A (2 X 6.1 m. RCC slab) in Km. 41/100-200 under deposit terms for PWD/in MDU-MNM section.

b) Works in Progress:

- i) No. of bridges : Nil

15. Bridge Workshops (2010-11)

Sl. No.	Description of Item	T&P/GOC in tonnes	EWS/AJJ in tonnes	RCC Depot/ GOC in Nos.
1.	Fabrication of Bridge Girders	0	872.987	0
2.	Fabrication of Steel works - otherthan Girders like Foot Over Bridges, Platform Shelters, Flood Light Towers, Tanks & Steel Cribs, etc.,	225	3,495.76	0
3.	Fabrication of other Steel Items like Single Cranks, Boiler Tube Gates, Platform Push- Trolleys, Cash Chests, Lamps of Sorts, Combination Fish Plates and Track Bars, etc.,	0	0	0
4.	Fabrication of Permanent Way Items like Points & Crossings, Points & Crossing Sleepers, CST9 Sleepers, Reconditioning of Bearing Plates & Fish Plates, Hook/ Anchor Bolts, Jimcrow, Lifting Barriers, Winches, Push Trolleys, Dip Lorries and Motor Trolleys, etc.,	0	0	0
5.	Other items like Reconditioning of Sleepers, manufacture of Skids, Beaters and other Miscellaneous items, etc.,	0	0	0
6.	(1) Manufacture of RCC Bridge Slabs - MG	0	0	0
	(i) Manufacture of RCC Bridge Slabs - MG	0	0	0
	(ii) Manufacture of RCC Bridge Slabs - BG	0	0	0
	(iii) Manufacture of PSC- MG Sleepers (Post Tensioned)	0	0	0
	(iv) Manufacture of PSC- MG Mono Block Sleepers (Pre Tensioned)	0	0	0
	(v) Manufacture of MG - RCC Twin Block Sleepers	0	0	0
	(vi) Manufacture of RCC pipes of various diameters and Length.	0	0	72
	(vii) Manufacture of RCC - Pre-cast Boxes - MG	0	0	0
	(viii) Manufacture of RCC - Pre-cast Boxes - BG	0	0	0
	(ix) CC platform shelter 2'x2'x3"	0	0	3,877
	(x) RCC slab 1'-6" x 1'-6" x 0-4"	0	0	17,458
	(xi) CC paver block for LC's	0	0	5961
	(xii) CC KM Post	0	0	2,340
Total		225	4,368.76	2,9708

16. Permanent Way Renewals and welding of Rail Joints, Arrears of track renewals and speed restrictions.

1. Permanent Way Renewals.—The physical progress of Permanent Way Renewals during 2010–2011.

(a) Through Renewals :

(Fig. in Track Kilometres)

Gauge				Primary		Secondary	
				Through Rail Renewal	Through Sleeper Renewal	Through Rail Renewal	Through Sleeper Renewal
Broad	..	..	..	165.16	32.39	39.42	48.17
Metre	..	..	..	0.00	0.00	12.82	12.82
Total	..	..	..	165.16	32.39	52.24	60.99

(b) Casual Renewals :

Gauge		Class	Rails	Sleepers (Numbers)			
		III	(in Tonnes)	Wood	Metal	Concrete	Total
Broad	..	I	2913.68	0	0	19475	19475
		II	355.31	10	55	577	642
Metre	..	I	0.00	0	0	0	0
		II	39.81	632	714	0	1346
Total	..	I	2913.68	0	0	19475	19475
		II	395.12	642	769	577	1988

(c) Points and Crossings Renewals :

							(in Nos.)
Gauge				1 in 16	1 in 12	1 in 8-1/2	Total
Broad	..	..	..	0	53	133	279
Metre	..	..	..	0	0	0	0
Total	..	..	..	0	53	133	279

(d) Renewal of wooden Specials on with Channel/Composite sleepers on Bridges :

Gauge				No. of Sleepers
Broad + Metre..	..	..	..	2349

(e) Renewals with SPSC layouts under points and crossings :

				(in sets)
Steel layouts Under points and Crossings				
Broad Gauge		Metre Gauge		Total
209.25		0		209.25

(f) Ballast put into the track during 2010-11 (in Thousands of cu.mts.)

Total Ballast collection during the year : 650.78 Total Ballast inserted during the year : 624.24

16.2—Track Materials used during the year 2010-11. The permanent way materials used during the year 2010-11 at the time of track renewals (excluding casual renewals).**(a) Rails** (in track kilometres)

Gauge				60 kgs.	52 kgs.	90 lbs.	75 lbs.	60 lbs.	50 lbs.	Total
Broad	..	..	..	81.76	122.82	0.00	0.00	0.00	0.00	204.58
Metre	..	..	..	0.00	0.00	6.24	0.00	6.58	0.00	12.82
Total	..	..	..	81.76	122.82	6.24	0.00	6.58	0.00	217.40

(b) Sleepers

									(in track kilometres)
Gauge				Concrete	Steel	CST-9	Wooden	others	Total
Broad	..	..	..	80.56	0.00	0.00	0.00	0.00	80.56
Metre	..	..	..	6.24	6.58	0.00	0.00	0.00	12.82
Total	..	..	..	86.80	6.58	0.00	0.00	0.00	93.38

(c) Composite wooden blocks and converted sleepers 2010-11 :

							(in Nos.)
Gauge				Composite Nos.	Wooden Blocks In Nos.	Converted steel through Sleepers Nos.	Total
Broad	..	..	..	0	195	250	445
Metre	..	..	..	0	0	0	0
Total	..	..	..	0	195	250	445

16.3—Materials in the track 2010-11—(Running Track) :**(a) Rails**

									(in Track Kilometres)
Gauge	60 Kg.	52 kg.	90 lbs.	75 lbs	60 lbs.	50 lbs.	others	Total	
BG	991	4851	47	0	0	0	0	5889	
MG	0	23	257	280	309	10	21	900	
Total	991	4874	304	280	309	10	21	6789	

(b) Sleepers

									(in Track Kilometres)
Gauge	Concrete	Steel	CST-9	Wooden	Others	Total			
Broad	5842	18	28	1	0	5889			
Metre	29	66	711	72	22	900			
Total	5871	84	739	73	22	6789			

(in Nos.)

(c) Turnouts		1 : 16		1 : 12		1 : 8.5		Total	
		BG	MG	BG	MG	BG	MG	BG	MG
Wooden	..	2	0	0	31	2	41	4	72
Steel	..	0	0	0	14	2	4	2	18
Concrete	..	59	0	2408	0	925	0	3392	0
Total	..	61	0	2408	45	929	45	3398	90

16. 4.–Welding of Rail Joints :

(a) **New Track Welded** : Total length of track on which rail joints was done during the year 2010-11.

(Figures in Nos.)

Gauge	Total No. of Joints welded
Broad + Metre	22,372

(b) Total Welded Track :

Total length of welded track as on 31st March 2011

(Figures in Track Kms.)

Gauge	Short Welded Panels	Long Welded Rails/Continuous Welded Rails	Total
Broad ..	830	5003	5833
Metre ..	529	66	595
Total ..	1359	5069	6428

(c) Flash Butt Welding Plant :

The work done at the Flash Butt Welding Plant in the Railway 2010-11.

Plant at	Number of joints Welded				Total No. of joints welded	Track, Kms.	Average cost per joints ₹
	60 Kgs.	52 Kgs.	90 lbs	7 lbs			
Arakkonam	1,0249	9,910	0	0	20,159	228.27	3,619

16.5-Speed Restriction :

(a) Speed Restrictions in force on 31st March 2011 due to poor condition of track :-

(in Kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2011	0.00	0.00	0.00

(b) Speed Restriction in force as on 31st March 2011 due to reasons other than the above :-

(i) For trains with 100 km..ph. speed

(in kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2011	353.33	0.00	353.33

(ii) For trains with higher speed at 110/120 km.ph.

(in kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2011	13.89	0.00	13.89

17. Block Renewals

Renewals of the following track kilometres were carried during 2010-11:-

(i) Through rail renewals (Primary & Secondary):

Division	Broad Gauge	Metre Gauge
Chennai	70.88	0.00
Salem	33.15	12.82
Palghat	14.31	0.00
Trivandrum	53.99	0.00
Tiruchchirappalli	8.29	0.00
Madurai	23.96	0.00
Total	204.58	12.82

(ii) Through sleeper renewals (Primary & Secondary)

Division			Broad Gauge	Metre Gauge
Chennai	..	..	37.09	0.00
Salem	..	..	13.17	12.82
Palghat	..	..	2.57	0.00
Trivandrum	..	..	25.79	0.00
Tiruchchirappalli	..	..	1.56	0.00
Madurai	..	..	0.38	0.90
Total	..	..	80.56	12.82

18. Damages, Caused by Natural Causes, Floods, Cyclones, Fire & Civil Disturbance.

<i>Sl. No.</i>	<i>Division</i>	<i>Station-Section particulars</i>	<i>Approximate cost of damages (₹ in Lakhs)</i>
1.	MAS ADEN/ SPB MJR	The KVP platform 1,2, 3 due to heavy wind nearly 50m. length platform shelter AC sheet roofing SPE damaged. The MJR station damaged by college students due to run over of 4 students.	4.00 0.50
2.	SA	Nil	
3.	PGT	SE/PW/MAQ section - Major earth slip at km.9/200-400 at tunnel approach between Padil- TOK stations.	200.00
4.	TVC	Nil	
5.	TPJ	Nil	
6.	MDU	Due to heavy rain fall @ ABI, deep cutting occurred at 19.00 hrs. on 30/4/10. The catchments drain on top of the cutting was repaired through zonal contract from km.447/600 449/100 at the cost of ₹ 1,21,587/- in SE/P.Way/BG section. All precautions were taken to prevent further deteriorations duly imposing speed restrictions of 20 kmph. Fall of huge boulders on the track at km.448/000-100 in ABI cutting occurred on 8/12/10 in between ABI-KQN at 6.20 hrs. Track restored on same date at 20.00 hrs. Track certified fit at about 20.00 hrs. Then on the following days the fallen boulders were blasted using mild detonators and trucked out of the cutting using JCBs and tractors and side drains were also widened, cleared of debris, for the free flow of drain water. The work has been done through Zonal contract in SE/P.Way/BG section.	1.22 1.00
7.	CNMS	Nil	
8.	MTP	Nil	

19. Staff Amenities

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
(A) Works Completed :—				
<i>(i) Works costing more than ₹ 5 lakhs each.—</i>				
1.	MAS	PER P.T. Colony.	Repairs to leaky roof and watering arrangements to Staff Quarters Phase V & VI	55.21
2.	SA	i. Podanur.	Construction of OHT 90,000 litres capacity and replacement of pipeline grid at 20 block area (i.d.1360/08-09) CE/OL.	49.50
		ii. Tiruppur	Construction of OHT 45,000 litres capacity including pipeline arrangements from well to good shed area (i.d.1849/08-09) CE/OL.	45.00
		iii. Coimbatore Jn.	Provision of reverse osmosis plant for providing drinking water to passengers.	29.00
3.	PGT	i. CAN & CLT.	Improvements to water supply arrangements. Provision of water disinfections paint.	8.30
		ii. CS	Improvements to water supply.	19.18
4.	TVC		Nil	
5.	MDU		Nil	
6.	TPJ		Ponmalai - Replacement of pipelines in colony to ensure uniform distribution of water supply (C-Type 1300 & F-Type -500) id:491/05 of CE/OL).	61.00
7.	CN/MS		MDU Jn.	205.00
8.	MTP			
<i>(ii) Works Costing less than ₹ 5 lakhs.</i>				
1.	MAS		Nil	
2.	SA		Nil	
3.	PGT	CLT	Repairs to pipeline.	1.75
		CAN	Repairs to pipeline.	1.64
		CLT	Repair to pipeline near Quarters No.42 to 47 & 49.	1.73
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU	MPA	Construction of collection well.	4.68
7.	CN/MS		Nil	
8.	MTP		Nil	
(B) Works in Progress				
<i>(1) Works costing more than ₹ 5 lakhs.</i>				
1.	MAS	PER P.T. Colony.	Repairs to water supply arrangements	36.92
		AJJ Rly Qrs.	Repairs and water supply arrangements.	35.00
2.	SA	SA Dn.	I. Provision of drinking water facility at goods shed at SA, SAMT, ED, IGU, PLMD & CBF.	50.00
		ii. Podanur	Provision of individual storage water tank at Staff Quarters (400 Nos) and augmentation of water supply by drilling three more borewells and pipeline arrangements id 1359/08-09 CE/OL.	49.00
		iii. SA Divn.	Provision of purified drinking water to stations through water treatment systems @ CBE (id.1506/09-10) CE/OL.	20.00
3.	PGT		Nil	
4.	TVC	NCJ Sub Divn.	Provision of borewell 5 Nos. deepening of existingwells at CAPE, NCJ, PASA. Ernakulam Coaching Complex - watering arrangements by laying 50 mm. dia. pipe from Muvatupuzha river near Piravam road station CGV, ETM, TRVL - Improvements to water supply arrangements.	29.00 806.00 24.00
		ALLP	Repairs to water hydrants.	9.33
			Drainage arrangements at Poojappura, Thamparoor, Pettah Colony.	179.39

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
5.	MDU	Dindigul Jn.	Construction of RCC tank 1 lakh litres capacity including renewal of existing corroded pipe lines at Hanumantha Nagar colony.	99.00
		Manaparai & Pudukottai Stations.	Construction of RCC tank of 90,000 litres capacity in lieu of C1 corroded tank.	
		Tirunelveli Jn.	Reconstruction of RCC over head tank of 90,000 litres capacity in Jawahar colony in lieu of corroded steel tank	11.21
		Tuticorin Station.	Renewal of heavily corroded pipe line in colony healthy unit area.	30.00
6.	TPJ		NGT-NCR Augumentation of water supply.	15.00
7.	CN/MS		Nil	
8.	MTP		Nil	

Works in Progress

(ii) Works costing Less than ₹ 5 lakhs.

1.	MAS		Nil	
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Renewal of corroded pipe line in railway hospital and telephone exchange area.	4.90
7.	CN/MS		Nil	
8.	MTP		Nil	

(II) Improvements to sanitation.

(A) Works Completed.

(i) Works costing more than ₹ 5 lakhs.

1.	MAS		Nil	
2.	SA		Nil	
3.	PGT	MAQ	Improvements to sewage pipe line at South & North colony.	12.07
		MAQ	Renewal of underground sewage pipes and construction of additional manholes in MAQ Colony.	33.92
		MAQ	Proposed improvements to health unit.	4.90
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	

(ii) Works Costing less than ₹ 5 lakhs.

1.	MAS		Nil	
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU	MPA strn.	Reconstruction of damaged septic tank and pump house.	4.89
7.	CN/MS		Nil	
8.	MTP		Nil	

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
Work in Progress				
<i>(ii) Works costing more than ₹ 5 lakhs.</i>				
1.	MAS	PER	Cleaning and maintenance of existing sewer lines at PER P.T. & PWQ for the period of two years (2010-2012).	31.56
		SPE	Improvements to drainage arrangements PON, GPD & MJR.	86.54
		AJJ	Railway Quarters - Repair including the replacement of sewage water pipe line	20.00
2.	SA	KRR	KRR - station Improvements of drainage arrangements to south and north railway colony.	5.00
			ADEN/KRR - Sub division - Proposed septic tank with drainage arrangements to KLT & KMD.	5.00
		KRR	Provision of drainage arrangements	10.00
		Erode	Cleaning and maintenance of existing sewer line in SEW/ED section for a period of 2 years.	21.00
3.	PGT		Nil	
4.	TVC		Improvements to drainage arrangements at Poojappura, Thamparoor, Pettah Colony.	179.39
5.	TPJ	TPJ Jn.	Improvements to yard drainage with collection well and pumping arrangements at MDU end. Renewal of carriage side filling hydrants for road no.1, 3, 4 and provision of dedicated water main for station as per works manual.	49.00
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	
<i>(ii) Works costing less than ₹ 5 lakhs</i>				
1.	MAS		Nil	
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	
(III) Other Staff Amenity Works				
(A) Works Completed.				
<i>(i) Works costing more than ₹ 5 lakhs</i>				
1.	MAS	AVD	Improvements to arrest the leakage of roof at Staff Quarters.	30.67
2.	SA	ED	Construction of additional 2 suits in first floor of ORH.	9.90
3.	PGT	MAQ	Construction of Type IV quarters for ADME.	19.91
		MAQ	Brighthening of staff quarters office building etc.	13.83
		MAQ	Improvements to Staff Quarters by fixing grills, replacement of perished doors etc.	7.78
		MAJN	Combined Crew Booking center.	25.31
		FK-PAZ	Toilets in gate lodges.	15.12
		SRR	Provision of barracks to RPF (2) Sub ordinate dormitory with 8 beds at different location and construction of one supervisor's rest house with 2 rooms.	80.68
		PGT	Reroofing with RCC slab and repairs to doors and window of type III quarters 20 units.	33.00
		PGT	Brighthening up of service building and staff welfare building & DRM office.	26.00
		PGT	Improvement to Railway Sports ground.	4.49
		PGT	Leak roofing of flat roof to staff quarters Type I & II PGT Railway colony.	21.00
		Between PTJ & FK stations.	Proposed toilets at gate lodges of level crossings.	18.00
		PGT	Proposed improvement to seating arrangements to MES section of Personnel Branch	15.00

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
4.	TVC		Repairs to approach road, colony road.	64.13
			Rest room for track machine staff.	12.49
5.	TPJ		Nil	
6.	MDU	MDU Colony	Corporate Welfare Plan - Reconstruction of Railway Institute building and auditorium for staff welfare.	11.30
7.	CN/MS		Nil	
8.	MTP		Nil	
(ii) Works costing Less than ₹ 5 lakhs.				
1.	MAS		Nil	
2.	SA		Nil	
3.	PGT	MAQ	Replacement of perished/dilapidated wooden/Gl. backyard doors.	1.94
		MAQ	Toilets at Gate lodges in MAQ section	
		CAN	Brightening up of Staff Quarters	7.84
		CAN	Repairs to bath & toilet of Type II Qrs.	1.57
		CAN	Repairs to Qrs.No.12	1.90
		CAN	Repairs to shelf of Type II qrs.	0.42
		CAN	Repairs to toilet of Qrs.	0.85
		CLT	Repairs to Gang rest room.	1.97
		QLD	Repairs to toilet and flooring of Qrs. No.2	0.85
4.	TVC		Nil	
5.	MDU		Nil	
6.	TPJ		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	
(ii) Works in Progress.				
(A) Works costing more than ₹ 5 lakhs.				
1.	MAS	AVD	Construction of RPF room and crew booking room.	15.47
		SPE	MAS, GDR repairs and maintenance of station building, service building and staff quarters in SPE sub Divn.	28.75
		PER	GSD/PER repairs to flooring and various wards of GSD/PER.	40.46
		PER	Improvements of Staff quarters, in PWQ area and leaking roof in PER.	101.86
		PER	Improvements of staff quarters in PER area.	144.24
		PER	PER & PT colony repairs to the existing front and back doors at staff quarters in 1 to XII Streets.	104.99
		AJJ	Imp. to Railway Quarters and repair to door and windows Phase - 2.	25.00
2.	SA	Coonoor	Re-roofing of Type I Quarters - 30 units (id.1543 LAW 07-08) CE/OL.	30.00
			Udagamandalam Re-roofing of Type I Qrs. 30 units (id.1568/LAW 07-08) CE/OL.	28.00
			SA - Construction of Railway Institute (id.1268/09-01) CE/OL.	9.90
			SA - Construction of Officers Club (id.1269/09-10) CE/OL.	9.90
			Improvements to the colony area at Erode.	5.00

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
3.	PGT	MAQ	Rest room for TTEs with 20 beds.	57.95
		MAQ	Construction of officers rest house.	14.98
		CAN	Improvements to colony road	21.38
4.	TVC		Repairs to staff quarters at Thampanoor & Poojappura.	55.48
			Repairs to staff quarters at Poojappura.	76.61
			TVC Coaching depot - Building for staff canteen	12.70
			TVC Repairs to toilet of Divisional Office.	44.93
5.	TPJ	GOC	Improvements to Staff quarters in diesel shed - 76 units under Corporate Welfare plan (id.1582-07-08) CE/OL.	24.00
		TPJ	Re-roofing and roof treatment of Staff Quarters (Type I & II) at UMG, VLU, NVL & KJPd (id.1587/07-08) CE/OL.	29.00
		TPJ	Crawford colony: Improvements to Quarters Type II - 24 units viz. flooring, roads, doors and windows (id.1589/07-08) CE/OL.	30.00
		TPJ	Kallukuzhi colony - Proposed sloped RCC roof in lieu of the existing damaged and perished mangalore tiled roof (id.1591/07-08) CE/OL.	29.00
		TPJ-KG	Retiling of mangalore tiled roof and renewal of damaged rafters, doors under Corporate Welfare plan. (id.592/07-08).	29.00
		TPJ	Improvements to toilet, bathroom flooring doors and windows, court yard for Type II - 42 units in Kallukozhi (id.1593/07-08).	30.00
		VM	Improvement to staff quarters replacing damaged back doors, provision of new drainage outlets, (id.1597/07-08) CE/OL.	30.00
		TPJ	Improvements to road surface and berm of colony approach roads in Kallukuzhi colony. Crawford colony. (id.1284/09-10) CE/OL.	70.00
		VM (North & South)	Improvement to Quarters, colony roads, watering and drainage arrangements.	425.00
		TPJ	Improvements to office accommodation in Accounts Branch in Divl. Office Complex.	30.00
		TPJ	Construction of type design buildings for RPF staff Train escorts (id.1861/08-09) CE/OL.	14.00
6.	MDU	MMM	Corporate Welfare Plan - Reconstruction of new community hall at Mandapam.	60.60
		Tuticorin Station.	Renewal of perished wooden doors/windows in Type I Staff Quarters	30.00
		MDU Jn.	Improvements to kitchen, toilet and bathroom of Type I Quarters in 'C' area.	50.00
7.	CN/MS		Construction of Rest House at Poes Garden as green building.	137.01
8.	MTP		Nil	

(ii) Works costing less than Rs.5 lakhs.

1.	MAS	Nil
2.	SA	Nil
3.	PGT	Nil
4.	TVC	Nil
5.	TPJ	Nil
6.	MDU	Nil
7.	CN/MS	Nil
8.	MTP	Nil

(IV) Hospital and Health units**(A) Works completed****(i) Works costing more than ₹ 5 lakhs**

1.	MAS	Nil
2.	SA	Nil
3.	PGT	CAN
4.	TVC	Remodelling Health units.
5.	TPJ	Nil
		10.54

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
6.	MDU	MDU Jn.	Construction of separate accommodation for special clinic, etc. in Railway hospital	9.43
	MDU Jn.		Proposed extension of OP block and construction of separate accommodation for special clinic in Railway Hospital.	15.62
7.	CN/MS		Nil	
8.	MTP		Nil	
<i>(ii) Works costing less than ₹ 5 lakhs</i>				
1.	MAS		Nil	
2.	SA		Nil	
3.	PGT	CAN	Repairs to leaky roof of health unit	0.04
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	
(b) Works in progress				
<i>(i) Works costing more than ₹ 5 lakhs</i>				
1.	MAS		Nil	
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC		TVC - Pettah - Provision of ICU in space near theatre (four bed)	9.90
			Repairs to Railway Hospital building and premises.	77.98
5.	TPJ	GOC	Construction of Male, Female Medical Ward & Children Ward.	309.00
6.	MDU		Nil	
7.	CN/MS	PER	New Railway hospital Phase I	731.23
		PER	New hospital.Phase II	9,524.34
8.	MTP		Nil	
(b) Works in progress				
<i>(i) Works costing less than ₹ 5 lakhs</i>				
1.	MAS		Nil	
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	
V) School and Hostels				
(A) Works completed				
<i>(i) Works costing more than ₹ 5 lakhs</i>				
1.	MAS		Nil	
2.	SA	ED	Construction of P.Way training school for Class IV staff including hostel.	49.50
3.	PGT		Nil	
4.	TVC		Nil	
5.	TPJ	VM	New building for divisional Permanent Way school.	75.00
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
<i>(I) Works costing less than ₹ 5 lakhs</i>				
1.	MAS		Nil	
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	
(A) Works in Progress				
<i>(I) Works costing more than ₹ 5 lakhs</i>				
1.	MAS	PER	Zone C2 maintenance of all buildings & roads in PER colony RMHSS school. Rly. Stadium GSD & Qrs.	45.80
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC	NCJ	Nagercoil - Sub-ordinates rest room in first floor of station building.	9.90
5.	TPJ	TPJ-KG	RPF training center - TPJ - Construction of compound wall with barbed wire fencing around 74.42 acres at 5BN/RPSF/TPJ	28.00
6.	MDU		Nil	
7.	CN/MS		Construction of accommodation for relative of in door patients.	246.78
8.	MTP		Nil	
<i>(I) Works costing less than ₹ 5 lakhs</i>				
1.	MAS		Nil	
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	
(VI) Running Room				
A. Works Completed.				
<i>i. Works costing more than ₹ 5 lakhs.</i>				
1.	MAS		Nil	
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	
<i>ii. Works costing less than ₹ 5 lakh.</i>				
1.	MAS		Nil	
2.	SA	OML	Improvements to running room at OML	5.00
		ED	Improvements to running room at ED.	8.00
3.	PGT	NIL	Conversion of staff Quarters No.15 into running room.	1.73
		CAN	Brightening and painting doors and windows.	1.55
4.	TVC		Nil	

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
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5.	TPJ		Nil	
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	

Works in Progress

i. Works costing more than ₹ 5 lakhs.

1.	MAS		Nil	
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC	NCJ	Construction of new running room.	57.00
		TVC Dn.	Improvements to hot water arrangements in the running rooms by providing solar water heaters.	10.00
			Improvements to ventilation & lighting arrangements in the running Bungalows & rest houses.	9.90
5.	TPJ	VM	Combined running room (id.1860/08-09) CE/OL	158.00
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	

ii. Works costing less than ₹ 5 lakh.

1.	MAS		Nil	
2.	SA	SA	Improvements to running room at Salem	5.00
3.	PGT		Nil	
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	

VII) Miscellaneous Works

(A) Works Completed

i. Works costing more than ₹ 5 lakhs.

1.	MAS		Nil	
2.	SA	PTJ	Barracks for RBF	75.00
		KETTI	Construction of buildings for accommodating scouts persons.	48.00
		PTJ	Improvements to office & store of SSE/P.Way/E/PTJ.	4.10
			Re-roofing of leaky roof of staff quarters with MS channel & Box section in colony	6.35
		PTJ, MTP, CBE & SUU.	Replacement of back yard doors of staff quarters	5.20
3.	PGT	AAM section.	AAM, VNB, NIL, Replacement of multi aspect upper quadrant by multi aspect colour light signalling.	55.43
4.	TVC		Nil	
5.	TPJ	Ponmalai	Construction of ladies rest room in production, diesel and C&W wings of central workshop (id.1030/06-07). CE/OL.	15.00
6.	MDU		Improvements to Divisional office canteen	5.00
7.	CN/MS		Nil	
8.	MTP		Nil	

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
<i>ii. Works costing less than ₹ 5 lakh.</i>				
1.	MAS	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	Nil		
5.	TPJ	Nil		
6.	MDU	Nil		
7.	CN/MS	Nil		
8.	MTP	Nil		

B. Works in Progress*i. Works costing more than ₹ 5 lakhs.*

1.	MAS	SPE	MAS-GDR extension of PF AIPP AIP MJR, NPKM & provision of borewell.	349.00
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	ERS	Construction of Railway institute.	9.90
		ERS	Improvements to Thampanoor Railway institute.	9.90
		ERS	Ernakulam - Construction of railway Institute-cum-Women Welfare Organisation with creche facilities, children park, playground.	9.90
		TVC Dn.	TVC Dn - replacement of age old ceiling fans/provision of additional fans in quarters.	27.00
		TVC	Improvements to control office.	17.74
5.	TPJ		Vridhachalam Jn. Proposed renovation of toilets and both rooms by providing tiles re-roofing etc. under Corporate Welfare Plans (id/1369/08-09).	47.00
6.	MDU	Nil		
7.	CN/MS	Nil		
8.	MTP	Nil		

Works in Progress*ii. Works costing less than ₹ 5 lakh.*

1	MAS	Nil
2	SA	Nil
3	PGT	Nil
4	TVC	Nil
5	TPJ	Nil
6	MDU	Nil
7	CN/MS	Nil
8	MTP	Nil

20. Level Crossing

1. No. of level crossing category-wise (As on 31-3-2011)		3. No. of level crossings where additional men were provided without upgrading during 2010-11.	Nil
Special Class	444		
'A' Class	179	4. No. of level crossings upgraded during 2010-11	66
'B' Class	72		
'C' Class	1087	5. No. of level crossings provided with Lifting Barriers during 2010-11.	4
'C' Class unmanned	1122	a) Inter-locked level crossings.	3
Canal Crossing	9	b) Non-interlocked level crossings.	1
Total	2913	Total	4
2. No. of level crossings manned during 2010-11			
a) Accident prone from ACSPP(b)/DF4/Safety Fund	15	6. No. of level crossings where traffic census was taken in 2010-11 and action taken in such cases.	Nil
b) From Railway Safety Works (20% segment)	Nil		
c) At State Government's Cost (Reimbursable From 80% Segment of RSWF)	Nil	7. No. of level crossings downgraded during 2010-11	Nil
d) Others (MPLADS)	Nil	8. No. of level crossings De-manned/Closed during 2010-11.	17
Total	15		

21. Statistics of Rail Usage

(a) Rail renewal carried over on various sections during the year 2010-2011

Name of the Section	UP/DN/ SL	Year of sanction	Sanctioned Length	Exg. Rail Section	Rail Renewal done with	Length Renewed during the year	Remarks
BROADGAUGE							
ROUTE-'A'							
Chennai Central-Gudur	..	Yard	2007-08	1.20	90R	52 kg II	1.00
Chennai Central-Gudur	..	UP	2009-10	27.03	52 kg	60 kg	3.60
ROUTE-'B'							
Chennai Central-Arakkonam	Up	2004-05	2.00	52 kg	60 kg	1.00	..
Chennai Central-Arakkonam	UP/DN	2004-05	8.00	52 kg	52 kg	0.77	
Chennai Central-Arakkonam	Yard	2004-05	2.50	90R/90BH	52 kg II	2.08	
Chennai Central-Arakkonam	Yard	2005-06	6.36	90R/90BH	52 kg II	0.40	
Chennai Central-Arakkonam	Yard	2007-08	10.59	90R II	52 kg II	1.30	
Chennai Central-Arakkonam	Yard	2004-05	1.00	52 kg/90R	52 kg II	0.80	
Chennai Central-Arakkonam	UP/DN	2008-09	15.14	52 kg	60 kg	1.54	
Chennai Central-Arakkonam	Yard	2009-10	1.08	52 kg II	52 kg	0.82	
Chennai Central-Arakkonam	Yard	2010-11	3.00	52 kg	52 kg II	3.00	
Arakkonam - Jolarpettai	Yard	2007-08	0.25	90R	52 kg II	0.25	
Arakkonam - Jolarpettai	UP	2009-10	7.94	60 kg	60 kg	2.94	
Arakkonam - Jolarpettai	UP	2009-10	1.00	60 kg	60 kg	1.00	
Arakkonam - Jolarpettai	UP	2009-10	1.17	60 kg	60 kg	0.84	
Arakkonam - Jolarpettai	UP/DN	2008-09	13.74	52 kg	60 kg	2.42	
Arakkonam - Jolarpettai	DN	2008-09	2.25	60 kg	60 kg	0.27	
Arakkonam - Jolarpettai	Yard	2008-09	3.00	90R	52 kg II	0.50	
Arakkonam - Jolarpettai	Yard	2008-09	8.00	90R	52 kg II	0.75	
Arakkonam - Jolarpettai	UP	2009-10	6.80	60 kg	60 kg	6.80	
Arakkonam - Jolarpettai	UP	2009-10	3.10	52 kg	52 kg	3.10	
Arakkonam - Jolarpettai	Yard	2010-11	5.90	90R	52 kg II	0.65	
Arakkonam - Jolarpettai	DN	2010-11	1.08	60 kg	60 kg	1.08	
Arakkonam - Jolarpettai	DN	2010-11	0.50	52 kg	52 kg	0.50	
Arakkonam - Jolarpettai	UP/DN	2010-11	4.26	52 kg	60 kg	0.50	
Arakkonam - Jolarpettai	UP/DN	2010-11	20.26	60 kg	60 kg	18.67	
Arakkonam - Renigunta	UP	2004-05	3.87	52 kg	60 kg	0.87	
Arakkonam - Renigunta	UP	2008-09	8.00	52 kg	60 kg	1.46	
Arakkonam - Renigunta	UP/DN	2009-10	12.59	52 kg	60 kg	3.03	
Chennai Egmore - Villupuram	SL	2009-10	0.50	52 kg	52 kg	0.50	
Chennai Egmore - Villupuram	SL	2010-11	4.50	52 kg	52 kg	3.50	
Chennai Egmore - Villupuram	SL	2010-11	1.20	52 kg	52 kg	0.40	
Chennai Egmore - Villupuram	SL	2010-11	1.20	52 kg	52 kg	0.80	
Chennai Egmore - Villupuram	SL	2010-11	0.65	52 kg	52 kg	0.65	
Jolarpettai - Erode	Yard	2008-09	3.00	90 R	52 kg II	2.06	
Jolarpettai - Erode	UP	2010-11	7.22	52 kg	60 kg	7.22	
Jolarpettai - Erode	UP	2010-11	6.75	60 kg	60 kg	6.75	
Jolarpettai - Erode	UP	2010-11	6.35	52 kg	52 kg	5.75	
Jolarpettai - Erode	UP	2010-11	0.35	60 kg	60 kg	0.35	
Irugur - Coimbatore - Podanur	UP	2010-11	1.37	52 kg	52 kg	1.37	
Irugur - Coimbatore - Podanur	Yard	2010-11	2.83	90R	52 kg II	0.86	
Erode - Irugur	Yard	2008-09	4.00	90R	52 kg II	3.76	
Irugur - Coimbatore	Yard	2002-03	1.83	90R	52 kg II	0.39	
Erode - Podanur	Yard	2008-09	0.50	90R	52 kg	0.04	

Name of the Section	UP/DN/ SL	Year of sanction	Sanctioned Length	Exg. Rail Section	Rail Renewal done with	Length Renewed during the year	Remarks
Podanur - Shoranur	UP	2009-10	1.30	52 kg	52 kg	1.15	
Podanur - Shoranur	Yard	2010-11	2.45	80 BH	52 kg II	0.28	
Podanur - Shoranur	Yard	2010-11	5.44	90R	52 kg II	0.24	
Podanur - Shoranur	Yard	2007-08	0.47	90R	52 kg II	0.29	
Podanur - Shoranur	DN	2010-11	1.10	52 kg	52 kg	1.10	
Podanur - Shoranur	DN	2010-11	1.10	52 kg	52 kg	1.10	
Shoranur - Ernakulam	UP	2005-06	0.80	52 kg	52 kg	0.58	
Shoranur - Ernakulam	DN	2007-08	1.30	52 kg	52 kg	1.00	
Shoranur - Ernakulam	Yard	2005-06	5.72	90R/ 90BH	52 kg II/ 90R II	0.30	
Shoranur - Ernakulam	Yard	2007-08	6.32	90R	52 kg II	1.35	
Shoranur - Ernakulam	DN	2005-06	28.98	52 kg	52 kg	7.18	
Shoranur - Ernakulam	UP/DN	2007-08	12.80	52 kg	52 kg	3.57	
Shoranur - Ernakulam	UP	2007-08	0.37	52 kg	52 kg	0.31	
Shoranur - Ernakulam	UP	2008-09	4.86	52 kg	52 kg	4.86	
Shoranur - Ernakulam	UP	2008-09	0.37	52 kg	52 kg	0.37	
Shoranur - Ernakulam	UP	2008-09	0.40	52 kg	52 kg	0.40	
Shoranur - Ernakulam	DN	2009-10	1.31	52 kg	52 kg	1.31	
Shoranur - Ernakulam	UP/DN	2010-11	3.23	52 kg	52 kg	2.03	
ROUTE-'D' Special							
—Nil—							
ROUTE-'D'							
Erode - Tiruchchirappalli	Yard	2010-11	5.40	90R	52 kg II	2.80	
Erode - Tiruchchirappalli	Yard	2010-11	1.00	52 kg	52 kg	1.00	
Erode - Tiruchchirappalli	Yard	2010-11	1.00	52 kg	52 kg	0.30	
Shoranur - Mangalore	Yard	2008-09	5.03	90R	52 kg II	2.34	
Shoranur - Mangalore	Yard	2008-09	0.50	90R	52 kg	0.50	
Shoranur - Mangalore	DN	2009-10	1.30	52 kg	52 kg	0.66	
Shoranur - Mangalore	UP/DN	2009-10	1.05	52 kg	52 kg	1.05	
Shoranur - Mangalore	Yard	2010-11	11.13	90R	52 kg II	0.36	
Mangalore - Panambur	SL	2009-10	3.67	90R II	60 kg	2.50	
Ernakulam - Thiruvananthapuram Central	Yard	2007-08	2.05	90R	52 kg II	1.55	
Ernakulam - Thiruvananthapuram Central	Yard	2003-04	18.44	90R	52 kg II	1.40	
Ernakulam - Thiruvananthapuram Central	SL	2007-08	14.86	52 kg	52 kg	6.40	
Ernakulam - Thiruvananthapuram Central	UP/DN	2005-06	0.40	52 kg	52 kg	0.40	
Ernakulam - Thiruvananthapuram Central	SL	2006-07	0.48	52 kg	52 kg	0.50	
Ernakulam - Thiruvananthapuram Central	SL	2007-08	0.38	52 kg	52 kg	0.38	
Ernakulam - Thiruvananthapuram Central	Yard	2008-09	0.40	90R	52 kg	0.40	
Ernakulam - Thiruvananthapuram Central	SL	2009-10	0.54	52 kg	52 kg	0.54	
Ernakulam - Thiruvananthapuram Central	SL	2010-11	5.88	52 kg	52 kg	5.12	
Ernakulam - Thiruvananthapuram Central	UP/DN	2010-11	0.74	52 kg	52 kg	0.74	
Ernakulam - Alappuzha	SL	2007-08	1.50	52 kg	52 kg	1.50	
Ernakulam - Alappuzha	SL	2006-07	0.52	52 kg	52 kg	0.27	
Ernakulam - Alappuzha	SL	2009-10	1.30	52 kg	52 kg	1.30	
Dindigul - Madurai	SL	2009-10	30.00	52 kg	52 kg	0.35	
Dindigul - Madurai	SL	2009-10	12.10	52 kg	52 kg	3.01	
Madurai - Virudunagar	SL	2009-10	1.10	52 kg	52 kg	0.45	
Madurai - Virudunagar	SL	2009-10	1.15	52 kg	52 kg	1.15	
Madurai - Virudunagar	SL	2010-11	1.00	52 kg	52 kg	1.00	
Madurai - Vanchi Maniyachchi	SL	2010-11	3.90	52 kg	52 kg	3.90	
Virudunagar - Vanchi Maniyachchi	SL	2010-11	3.00	52 kg	52 kg	3.00	
Virudunagar - Vanchi Maniyachchi	SL	2010-11	1.20	52 kg	52 kg	1.20	
Virudunagar - Vanchi Maniyachchi	SL	2010-11	1.10	52 kg	52 kg	1.10	
Virudunagar - Vanchi Maniyachchi	SL	2010-11	1.00	52 kg	52 kg	1.00	

Name of the Section	UP/DN/ SL	Year of sanction	Sanctioned Length	Exg. Rail Section	Rail Renewal done with	Length Renewed during the year	Remarks
ROUTE - E Special							
—Nil—							
ROUTE - E							
Chennai Beach - Veysarpadi Jeeva	Yard	200-01	3.14	90 BH	52 kg II	0.34	
Veysarpadi Jeeva - Korukkupettai	UP/DN	2007-08	3.80	52 kg	52 kg	3.80	
Salem - Vriddhachalam	Yard	2010-11	3.49	90 R II	52 kg II	0.50	
Shoranur - Nilambur Road	SL	2009-10	1.16	52 kg	52 kg	1.16	
Thrisur - Guruvayur	SL	2008-09	9.00	90 R	60 kg	7.90	
Thrisur - Guruvayur	SL	2010-11	9.32	90 R II	60 kg	1.67	
Thiruvananthapuram Central - Nagercoil	SL	2005-06	6.10	90 R	52 kg	0.78	
Thiruvananthapuram Central - Nagercoil	SL	2004-05	0.65	90 R	52 kg	0.65	
Thiruvananthapuram Central - Nagercoil	SL	2010-11	1.20	52 kg	52 kg	0.20	
Nagercoil - Tirunelveli	SL	2007-08	8.30	90 R	52 kg	0.15	
Tiruchchirappalli Fort - Tiruchchirappalli	SL	2008-09	0.55	90 R	52 kg	0.13	
Tiruchchirappalli Fort - Tiruchchirappalli	Yard	2010-11	1.56	90 R II	52 kg II	1.56	
Villupuram - Pondicherry	SL	2009-10	15.37	52 kg II	60 kg	6.60	
Milavittan - Tuticorin Harbour Port	Yard	2008-09	7.80	90 R	52 kg II	7.80	

METER GAUGE**ROUTE - Q**

- Nil -

ROUTE - R1

- Nil -

ROUTE - R2

- Nil -

ROUTE - R3

- Nil -

ROUTE - S1

- Nil -

ROUTE - S2

- Nil -

ROUTE - S3

Mettupalaiyam - Udagamandalam	SL	2004-05	18.27	50 R II/50 O	60 R II/52 kg II	6.58	
Mettupalaiyam - Udagamandalam	SL	2010-11	6.24	60 R	90 R II	6.24	

21. (b) Average traffic in Gross Tonnes per running track kilometrage carried over on various sections during the year 2010-2011

(in millions)			
Section	Rail section	On section with ruling gradient upto 1 in 150	On section with ruling gradient steeper than 1 in 150
(1)	(2)	(3)	(4)
Broad Gauge			
Group-A			
Chennai Central - Gummidipundi (UP)	60 kg	26.82	-
Gummidipundi - Sullurupeta (UP)	60 kg	22.63	-
Sullurupeta - Gudur (UP)	60 kg	21.04	-
Chennai Central - Gummidipundi (DN)	52/60 kg	19.70	-
Gummidipundi - Sullurupeta (DN)	52/60 kg	15.51	-
Sullurupeta - Gudur (DN)	52/60 kg	13.92	-

(in millions)			
Section	Rail section	On section with ruling gradient upto 1 in 150	On section with ruling gradient steeper than 1 in 150
(1)	(2)	(3)	(4)
Chennai Central - Tiruvallur (UP) FAST	60 kg	25.64	-
Chennai Central - Tiruvallur (DN) FAST	60 kg	38.05	-
Chennai Central - Tiruvallur (UP) SLOW	52/60 kg	14.47	-
Chennai Central - Tiruvallur (DN) SLOW	52/60 kg	14.47	-
Tiruvallur - Arakkonam (UP)	60 kg	30.60	-
Tiruvallur - Arakkonam (DN)	60 kg	43.02	-
Arakkonam - Katpadi (UP)	52/60 kg	25.85	-
Arakkonam - Katpadi (DN)	52/60 kg	41.70	-
Katpadi - Jolarpettai (UP)	52/60 kg	25.72	-

Section	Rail section	(in millions)	
		On section with ruling gradient upto 1 in 150	On section with ruling gradient steeper than 1 in 150
(1)	(2)	(3)	(4)

GROUP-B—(Concd.)

Katpadi - Jolarpettai (DN)	52/60 kg	41.56	-
Arakkonam - Tiruttani (UP)	60 kg	29.95	-
Arakkonam - Tiruttani (DN)	52/60 kg	22.22	-
Tiruttani - Renigunta (UP)	60 kg	28.12	-
Tiruttani - Renigunta (DN)	52/60 kg	20.39	-
Jolarpettai - Salem (UP)	52/60 kg	-	21.32
Jolarpettai - Salem (DN)	52/60 kg	-	32.38
Salem - Erode (UP)	52/60 kg	-	23.41
Salem - Erode (DN)	52/60 kg	-	28.01
Erode - Irugur (UP)	52/60 kg	-	20.27
Erode - Irugur (DN)	52/60 kg	-	24.35
Irugur - Coimbatore - Podanur (SL)	52 kg	-	24.35
Irugur - Podanur (SL)	52 kg	-	20.27
Podanur - Palakkad (UP)	52 kg	-	17.20
Podanur - Palakkad (DN)	52 kg	-	19.94
Palakkad - Shoranur (UP)	52 kg	-	16.43
Palakkad - Shoranur (DN)	52 kg	-	20.29
Shoranur - Ernakulam (UP)	52 kg	-	17.40
Shoranur - Ernakulam (DN)	52 kg	-	19.23
Chennai Beach - Suburban Tambaram (UP)	60 kg	22.01	-
Chennai Beach - Suburban Tambaram (DN)	60 kg	22.01	-
Tambaram - Chengalpattu (UP) Suburban	60 kg	7.42	-
Tambaram - Chengalpattu (DN) Suburban	52 kg	7.42	-
Chennai Beach - Chengalpattu	52 kg	21.05	-
Chengalpattu - Melmaruvathur	52 kg	21.31	-
Melmaruvathur - Villupuram	52 kg	21.31	-
Villupuram - Tiruchchirappalli (Chord)	52 kg	18.53	-
Tiruchchirappalli - Dindigul	52 kg	12.37	-

Group -C

Chennai Beach - Velachery (UP)	60 kg.	..	7.28
Chennai Beach - Velachery (Dn.)	60 kg.	..	7.28

Group-D Special

-Nil-

Group -D

Erode - Tiruchchirappalli Fort	52 kg	-	14.26
Ernakulam - Kottayam - Kayankulam	52 kg	-	18.95
Kayankulam - Kollam (UP)	52 kg	-	11.40

Section	Rail section	(in millions)	
		On section with ruling gradient upto 1 in 150	On section with ruling gradient steeper than 1 in 150
(1)	(2)	(3)	(4)

Kayankulam - Kollam (DN)	52 kg	-	7.55
Kollam - Thiruvananthapuram Central (UP)	52 kg	-	11.44
Kollam - Thiruvananthapuram Central (DN)	52 kg	-	11.54
Ernakulam - Alappuzha	52 kg	14.01	-
Alappuzha - Kayankulam	52 kg	11.67	-
Shoranur - Kozhikode (DN)	52 kg	12.58	-
Shoranur - Kozhikode (UP)	52 kg	12.58	-
Kozhikode - Kannur (DN)	52 kg	11.46	-
Kozhikode - Kannur (UP)	52 kg	11.46	-
Kannur - Mangalore (DN)	52 kg	-	9.87
Kannur - Mangalore (UP)	52 kg	-	9.87
Mangalore - Thokkur	52 kg	-	5.98
Karur - Dindigul	52 kg	7.75	-
Dindigul - Madurai (UP)	52 kg	9.77	-
Dindigul - Madurai (DN)	53 kg	9.26	-
Madurai - Virudunagar	52 kg	14.59	-
Virudunagar - Vanchi Maniyachchi	52 kg	14.59	-
Virudunagar - Tenkasi	52 kg	2.64	-
Madurai - Manamadurai	52 kg	1.76	-
Manamadurai - Rameswaram	52 kg	3.84	-
Tirunelveli - Tiruchendur	52 kg	-	1.56
Tirunelveli - Vanchi Maniyachchi	52 kg	10.58	-
Nagarcoil - Tirunelveli	52 kg	-	8.79
Villupuram - Vellore Cantonment	52 kg	-	0.97
Vellore Cantonment - Katpadi	52 kg	-	1.24
Mayiladuthurai - Kumbakonam	52 kg	10.19	-
Kumbakonam - Thanjavur	52 kg	10.19	-
Thanjavur - Tiruchchirappalli	52 kg	10.19	-
Tiruchchirappalli - Karaikkudi - Manamadurai	52 kg	2.46	-

Group—E Special

-Nil-

Group ' E '

Walajah Road - Ranipet	80BH	-	-
Salem - Metur Dam	52 kg	-	20.44
Tiruchchirappalli Fort - Tiruchchirappalli Jn.	52 kg	-	10.49
Coimbatore - Mettupalaiyam	52 kg/44.61	-	2.19
Palakkad - Palakkad Town	52 kg/44.61	-	1.53
Shoranur - Nilambur Road	52 kg/44.61	-	3.06
Ernakulam - Kochi Harbour Terminus	52 kg	-	-

(in millions)

Section	Rail section	On section with ruling gradient upto 1 in 150	On section with ruling gradient steeper than 1 in 150
(1)	(2)	(3)	(4)
Thiruvananthapuram	52 kg	-	8.25
Central - Nagercoil			
Nagercoil - Kanniyakumari	52 kg	-	8.25
Vanchi Maniyachchi - Tuticorin	52 kg	5.07	-
Thrisur - Guruvayur	52 kg	3.74	-
Chengalpattu - Tirumalpur	52 kg	3.48	-
Tirumalpur - Arakkonam	52 kg	1.60	-
Villupuram - Puducherry	52 kg	3.42	-
Cuddalore Port - Vriddhachalam	52 kg	-	2.11
Vriddhachalam - Salem	52 kg	-	3.76
Tenkasi - Sengottai	52 kg	2.64	-
Thanjavur - Tiruvarur	52 kg	8.30	-
Tiruvarur-Nagore	52 kg	8.18	-
Punalur - Kollam	52 kg	-	0.64

METRE GAUGE

Tambaram - Villupuram	Route-Q		
	44.81 kg.		
	Route-R 1		
	NIL		
Virudunagar - Manamadurai	Route-R 2		
	Under GC	0.00	..
	Route-R 3		
Dindigul-Pollachi	Under GC	0.00	0.08
Mayiladuturai-Tiruvarur	Route-S1		
	Under GC	0.00	-
	37.13	0.47	-
Tiruthuraiipundi-Karaikkudi	44.61/37.13	0.47	-
Sengottai-Punalur	Under GC	-	0.50
Pollachi-Palakkad	Route-S 2		
	..	..	0.00
	..	..	0.00
Mettupalaiyam-Udagamandalam	Route-S 3		
	24.80/29.76	..	0.24
	Under GC	0.00	..
Tiruthuraiipundi-Agastiyampalli			
Madurai-Bodinayakkanur	29.76/24.80	..	0.13

22. Track Modernisation :

As part of Track Modernisation, Southern Railway has been in the forefront in deployment of machines for Track Laying and Maintenance activities. From the modest beginning made in 1975 with the introduction of 3 universal tie tamping machines and 4 portal cranes, the Track Machine fleet has grown over the three and half decades with 7 Duomatic Tamping Machines, 4 High output capacity CSM tamping machines, 1 High output Express Tamper, 5 Unimat Points & Crossings Tamping Machines, 1 Multi Purpose Tamper, 6 Ballast Cleaning Machines, 2 Shoulder Ballast Cleaning Machines, 3 Ballast Regulating Machines, 5 Dynamic Track

Stabilisers, 2 Points & Crossing Laying Machines, 1 Track Relaying Train, 4 Utility Track vehicles, 1 Jumbo Vacuum Cleaner (VM170) and 2 Portal cranes.

Tamping of 6384.268 km done by the machines during 2010-11 in the Shatabdhi and other high speed and high-density routes on the Railway.

Track relaying for 75.486 km by Track Relaying Train was also done during this year.

Track monitoring:

Monitoring of track is carried out periodically using RDSO's track recording and Oscillograph cars and portable oscillations monitoring system (OMS 2000) at regular intervals to keep the track in good fettle and safe for passage of trains. 2 nos. of laptop based digital OMS system have been procured and put into operation as a part of modernization. Detailed analysis of results of these runs has enabled this Railway to progressively improve the quality of track. Computer program has been developed to generate exception reports to enable field staff for early identification of location for planning maintenance.

Track management system (TMS)

A web based Track Management System is implemented on pilot basis in Salem division in July 2010 as part of E-Governance and inspections of field staff are made in E-form and computer based monitoring of various track maintenance activities is introduced. Staffs are provided with notebooks up to grass route level and necessary training is imparted.

Indian Railways Projects Sanctions and Management (IRPSM):

A web based IRPSM is implemented to process for work programme for all plan heads including Track Renewals as part of E-Governance. This facilitates access of data at all levels and progress monitoring of various sanctioned works.

22(b):-

Progress achieved in the various track improvement works during the year is as follows:-

Ballast collection (lac cum)	6.50
Ballast Insertion (lac cum)	6.24
Deep screening (km)	432.34
USFD (km)	12562

23:- Stabilisation of Bad banks:

Formation treatment has been carried out in a total length of 0.014 km during the year 2010-11.

24. Length of Tunnels

Length of Tunnels

Sl. No.	Divn.	Section	Gauge	Tunnel No.	Location	Length in 'm'	Year of Const.	Lined/ Unlined	Straight/ Curve	Remarks
1.	MDU	SCT-QLN	MG	1	680/8-681/4	906.78	1901	Lined	ST /Curve	Important
2.	MDU	SCT-QLN	MG	2	693/2-3	102.7	1901	UnLined	Curve	
3.	MDU	SCT-QLN	MG	3	693/4-5	86.3	1901	UnLined	Curve	
4.	MDU	SCT-QLN	MG	4	697/4-5	130.75	1901	UnLined	Curve	
5.	MDU	SCT-QLN	MG	5	703/2-3	144.70	1901	Part Lined	Curve	
6.	SA	MTP-UAM	MG	1	9/10-11	34.44	1897	Lined	Curve	
7.	SA	MTP-UAM	MG	2	11/10-11	19.51	1897	Un Lined	Curve	
8.	SA	MTP-UAM	MG	3	12/3-5	83.52	1897	Un Lined	Curve	
9.	SA	MTP-UAM	MG	4	12/7-8	46.94	1899	Lined	St/Curve	
10.	SA	MTP-UAM	MG	5	14/6-7	19.51	1899	UnLined	Curve	
11.	SA	MTP-UAM	MG	6	14/9-10	79.25	1899	Lined	Curve	
12.	SA	MTP-UAM	MG	7	15/3-4	88.39	1899	Lined	Curve	
13.	SA	MTP-UAM	MG	8	17/8-9	32.92	1899	Un Lined	Curve	
14.	SA	MTP-UAM	MG	9	17/10-11	30.48	1899	Un Lined	Curve	
15.	SA	MTP-UAM	MG	10	19/5-6	20.12	1899	Un Lined	Curve	
16.	SA	MTP-UAM	MG	11	19/11-12	62.48	1899	Un Lined	ST/Curve	
17.	SA	MTP-UAM	MG	12	21/3-4	95.10	1897	Un Lined	Curve	
18.	SA	MTP-UAM	MG	13	23/12-24/1	72.85	1904	Lined	Curve	
19.	SA	MTP-UAM	MG	14	39/9-10	76.20	1907	Un Lined	Straight	Important
20.	SA	MTP-UAM	MG	15	42/5-5	53.64	1907	Lined	Curve	
21.	SA	MTP-UAM	MG	16	44/7-9	137.46	1908	Lined	ST/ Curve	
22.	PGT	MAQ-PNMB	BG	4	8/8-9/5	589.63	1969	Lined	ST/Curve	
23.	PGT	SRR-MAQ	BG	1198 ADN 1198 Up	835/7-9	161.40	1905	Un Lined	Curve	
24.	PGT	SRR-MAQ	BG	1198 A ADN 1198 Up	835/7-9	175.00	2003	Un Lined	Curve	
25.	TVC	ERS-KTYM-K	BG	1	60/4-5	66.68	1958	Lined	Straight	
26.	TVC	ERS-KTYM-K	BG	2	60/7-9	80.31	1958	Lined	Straight	
27.	TVC	TVC-NCJ	BG	3	231/15-232/2	204.10	1979	Lined	Straight	
28.	TVC	TVC-NCJ	BG	4	250/7-12	200.60	1979	Lined	2.5 deg.	
29.	TVC	TVC-NCJ	BG	5	254/8-9	40.10	1979	Lined	2.0.deg	
30.	TVC	TVC-NCJ	BG	6	256/14-257/3	130.05	1979	Lined	1.0 deg	
31.	TVC	TVC-NCJ	BG	7	261/14-16	80.00	1979	Lined	1.0 deg.	

Note: Any Tunnel longer than 150m may be considered as Important as per RDSO / Lucknow letter No.CBS/Imp.Br.&Tunnels dt. 05.11.1999.

SUMMARY

Sl. No.	Division	Gauge	Length
1	MAS	..	0.00
2	SA	MG	952.81
3	PGT	BG	926.03
4	TVC	BG	801.84
5	TPJ	..	0.00
6	MDU	MG	1371.23
Total	..	..	4051.91

25. Details of Lineal Waterway

Divn.	Broad Gauge		Metre Gauge		Gauge Conversion		Total	
	2009-10	2010 - 11	2009-10	2010 - 11	2009-10	2010 - 11	2009-10	2010 - 11
Important ..	14334.23	18188.28	0.00	0.00	3854.05	0	18188.280	18188.280
Major ..	32010.56	35010.56	1406.736	1406.736	6242.2	3242.2	39659.496	39659.496
Minor ..	29426815	28926.876	380.000	360.000	4986.05	2486.1	31792.929	31792.93
	72777.665	82125.716	1786.736	1786.736	15082.304	5728.3	89646.705	89646.705

Due to increase in Broad Gauge VM - MV and VM - KPD Gauge Conversion work are completed.

26. Building Activities

(i) Statement showing number of projects, plinth area, estimated cost and value of work done during 2010-2011.

Sl. No.	Construction Stage	No. of Projects in Units	Total Plinth area in sq.mtrs.	Total floor area in sq. mtrs.	Estimate cost in lakhs. of ₹	Value of the work done during the period (in lakhs of ₹)	Value of the work done upto the end of the period (in lakhs of ₹)
1.A. Residential building							
Family quarters.							
1.	In progress ..	295	18510.97	12096.47	2628.76	866.00	693.28
2.	Completed ..	254	17423.64	14954.89	1423.48	224.00	560.57
1 B. Non-family dwelling barracks.							
1.	In progress ..	2	446.00	389.00	93.90	32.00	32.00
2.	Completed ..	2	366.60	308.28	89.98	2.35	2.35
2.Industrial building (Factories, workshops etc.)							
1.	In progress ..	5	17773.00	18426.00	4283.29	464.00	1573.00
2.	Completed.						
3.Commercial buildings (warehouse, offices etc.)							
1.	In progress ..	10	4162.58	7252.51	3512.50	554.30	499.30
2.	Completed. ..	4	469.67	375.74	136.11	89.22	20.42
4.Institutional buildings (School, Hospital, Dispensaries, Religious buildings etc.)							
1.	In progress ..	2	-	-	337.00	23.00	23.00
2.	Completed. ..	2	300.00	255.00	124.50	43.00	43.00
5.Other buildings (Public, Libraries, Amusement Buildings etc.)							
1.	In progress ..	1	1032.80	195.83	130.83	60.72	110.72
2.	Completed ..	4	551.83	449.21	148.28	92.29	150.29

(ii) Statement showing number of addition and alterations of projects, plinth area, estimated cost and value of work done during 2010-2011.

Sl. No.	Construction/Stage	No. of Projects in (Units)	Total Plinth area in sq.m:	Total floor area in sqm.	Estimate cost (in lakhs of ₹	Value of the work done during the period (in lakhs of ₹)	Value of the work done upto the end of the period (in lakhs of ₹)
1.A. Residential building							
Family quarters.							
1.	In progress ..	..	-	-	-	-	-
2.	Completed ..	94	115.00	94.00	142.72	0.00	133.22
1 B. Non-family dwelling barracks.							
1.	In progress ..	..	-	-	-	-	-
2.	Completed. ..	1	228.00	191.00	36.00	-	-

Sl. No.	Construction/Stage	No. of Projects in (Units)	Total Plinth area in sq.m.	Total floor area in sqm.	Estimate cost (in lakhs of ₹)	Value of the work done during the period (in lakhs of ₹)	Value of the work done upto the end of the period (in lakhs of ₹)
2. Industrial building (Factories, workshops etc.)							
1.	In progress	-	-	-	-	-	-
2.	Completed.	..	..	-	-	-	-
3. Commercial buildings (warehouse, offices etc.)							
1.	In progress	..	..	-	-	-	-
2.	Completed.	..	1	127.00	-	-	16.00
4. Institutional buildings (School, Hospital, Dispensaries, Religious buildings etc.)							
1.	In progress	..	..	-	-	-	-
2.	Completed.	..	-	-	-	-	-
5. Other buildings (Public, Libraries, Amusement Buildings etc.)							
1.	In progress	..	..	816.00	82.00	20.00	70.00
2.	Completed.	..	..	-	-	-	-

iii) Number of dwelling Units/staff quarters (permanent structures) constructed and under construction during 2010-11.

Sl. No.	Construction/Stage	Type I	Two rooms, units or Type II	Three months under Type III	Four rooms units or more Type IV	Type V / (OR) Five Rooms.	Other categories of barracks, bungalows etc.
(a)	Progress	24	330	60	40	20	..
(b)	Completed	132	110	20	8	0	..

27. Land Management

(a) Tree Plantation

Position for the year 2010-2011 is as under :

(in thousands)

(in Hectares)

Name of States	Total No. of trees surviving as on 1/4/2010	Total No. of trees planted on			Total land handed over to Forest Deptt.	
		Departmentally	Forest Deptt.	Total	During the year	Total up-to-date 31/3/2011
Tamil Nadu
Karnataka
Kerala
Andhra Pradesh
Total	1353.65	145.51	..	1499.16	..	..

No. of shady trees planted on platform during the year 2010-2011.

(b) Encroachments—Position of Encroachments on Railway Land

(i) The position for the year 2010-2011 is as under :

Total No. of encroachments as on 31-3-2009	Total No. of encroachments			Total No. of cases pending with Estate Officer at the beginning of the year 31/3/2010	No. of cases filed during the year	No. of cases decided during the year	Total No. of cases pending with Estate Officer as on 31/3/2010
	Added	Removed	Total No. of encroachments as on 31/3/2010				
9,316	0	0	9,315	2,640	0	0	2,640

(ii) Special Measures taken to remove encroachments :

(c) Position of Licensing Agreement : (Nos.) 2010-11

Item	Total No. of cases	Total No. of cases agreements executed
a. G. M. F.	325	325
(i) Railway employees ..	..	..
(ii) Outsiders ..	..	..
b. Commercial plots including vending by Comm. Deptt.	13	13
c. Engineering plots ..	35	35
d. Shopping plots (Engg. Deptt.)	6	6
e. Oil plots ..	47	43
f. Others ..	112	111
Total ..	538	533

(d) Engg. Earnings from land resources (in Thousands of ₹)

Sl. No.	Description	Actual earnings for last three years			Remarks
		2008-09	2009-10	2010-11	
1.	Licensing of land for G. M. F.	2.39	3.55	93	
2.	Sale of Grass rights ..	0.00	0.00	0.00	
3.	Sale of Fruit rights ..	0.00	0.00	0.00	
4.	Sale of Fishery rights ..	0.00	0.00	0.00	
5.	Sale of matured green trees and dry trees.	102.98	122.01	5268	
6.	Licensing of land for shopping purposes including tehbazari purposes.	50.74	21.49	193	
7.	Licensing of land for Oil Companies	379.1	1395.08	23702	
8.	Licensing of land for other purposes	2662.34	3911.40	4010.00	
9.	Way leave facilities & easement rights both along road & rail approaches.	619.96	706.39	47148	
10.	Other Misc. Earnings from Land	1295.23	1610.13	3886	
Total ..		5112.74	7770.05	84300	

(e) Outstanding Dues (In thousand rupees)

2008-2009

Sl. No.	Item	Position as on 31/3/2010	Accretion during the year (+)	Clearance during the year (-)	Balance Outstanding as on 31/3/2011
1.	G. M. F. Scheme ..	..	..	..	..
(a)	Railway Staff ..	..	83.18	83.18	..
(b)	Outsiders ..	12.226	0	0	12.226
(c)	State Governments ..	..	..	..	..
2.	Temporary Commercial Licensing	308.000	3258.06	3258.06	308.000
3.	Outstanding due Oil Companies..	7127.708	41578.55	5590.650	43115.600
4.	Outstanding dues from Government Department	781.000	8657.41	8656.43	781.000
Total ..		8228.934	53577.20	17588.320	44217.80

(f) Total Land Area (in Hectares)

2010-2011

Total Land area at the beginning of the year (in Hects).	Area of land acquired during the year	Area of land relinquished during the year	Balance area of land at the end of year	Area of land under Active Use			G.M.F.	Any other use	Area of land lying vacant
				Under track structures and colonies etc.	Afforestation.	Commercial licensing			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
25,552.57	25,552.75	20,010.93	2,654.11	276.1	107.4	3.5	2,300.58

* Updated position under compilation.

28. Civil Engineering Assets

Railway	Plinth area of service building (in sq.m.)	Plinth area of residential buildings (in Sq. mts.)	Linear water way of bridges in mts.			Length over and under bridges in mts.				Tonnage of steel girders bridges (Tonnes)	Tonnage of steel structures other than girder bridges (Tonnes)	Number of water Pumping points Nos.	Number of Sewerage treatment plant Nos.	Number of ballast quarries Nos.
			Major	Minor	Total	F.O.B.	R.O.B.	R.U.B.	Total in Mts.					
S.Rly.	1647181.87	995121.28	56289.11	29752.72	89700.35	11159.17	5744.73	17425.1	18646.41	58106.83	28991.20	204	42	7

28. Civil Engineering Assets

Year	Division Name	Plinth area of service building (in sq.m.)	Plinth area of residential buildings (in Sq. mts.)	Linear water way of bridges in mts.			Length over and under bridges in mts.				Tonnage of steel girders bridges (Tonne)	Tonnage of steel structures other than girder bridges (Tonnes)	Number of water Pumping points Nos.	Number of Sewerage treatment plant Nos.	Number of ballast quarries Nos.
				Major	Minor	Total	F.O.B.	R.O.B.	R.U.B.	Total in Mts.					
2009-10	MAS	434621.26	293785.54	127.00	3359.00	3486.00	5903.30	29.00	0.00	5932.30	0.00	0.00	77	7	0
2010-11		679849.00	155582.05	127.00	3359.00	3486.00	5903.30	29.00	0.00	5932.30	0.00	0.00	77	7	0
2009-10	SA	142807.00	121072.00	7210.73	5946.30	13157.03	302.42	656.75	1128.47	2087.64	0.00	0.00	20	5	1
2010-11		142807.00	121072.00	7210.73	5948.92	13159.65	787.16	1094.00	152.45	2033.61	0.00	0.00	20	5	1
2009-10	PGT	269432.07	136145.00	7942.35	5882.38	13824.73	1287.13	1207.38	124.20	2618.71	6802.90	702.00	25	7	1
2010-11		269432.07	136145.00	12671.50	2699.93	19329.95	1855.58	1300.18	226.90	3382.66	8767.83	2258.00	10	0	1
2009-10	TVC	125985.00	102204.00	7386.37	4333.84	11720.21	1067.00	1211.00	301.00	2579.00	9580.00	3650.00	12	0	0
2010-11		125985.00	102204.00	7386.37	4333.84	11720.21	1067.00	1211.00	301.00	2579.00	9580.00	3650.00	12	0	0
2009-10	TPJ	206852.01	295757.23	14019.00	2748.00	16767.00	682.99	98.07	658.66	1439.72	1611.00	17570.20	20	14	0
2010-11		206852.01	295757.23	14019.19	2752.67	16771.86	682.99	98.07	658.66	1439.72	1611.00	17570.20	20	14	0
2009-10	MDU	223798.88	193465.90	0.00	0.00	0.00	624.00	165.80	123.23	913.03	0.00	0.00	38	21	0
2010-11		215600.79	183671.00	10358.84	8014.91	18373.75	611.14	1068.48	243.00	1922.62	37964.00	5324.00	46	16	5
2009-10	CN/MS	2693.16	1075.43	1650.53	1302.80	2953.33	22.60	420.82	108.30	551.72	0.00	0.00	0	0	0
2010-11		6656.00	690.00	4515.48	2643.45	7158.93	252.00	944.00	160.50	1359.50	184.00	189.00	19	0	0
2009-10	MTP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
2010-11		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
2009-10	Total	1406189.38	1143505.10	38335.98	23572.32	61908.30	9889.44	3788.82	2443.86	16122.12	17993.90	21922.20	192	54	2
2010-11		1647181.87	995121.28	56289.11	29752.72	89700.35	11159.17	5744.73	1742.51	18646.41	58106.83	28991.20	204	42	7



V. TRANSPORTATION

1. Highlights of Freight Performance

1.1 Originating Revenue Earning Traffic :

Originating Revenue Earning Traffic during the period 2010-11 was 35.107. M.T. The registered loading of 3.647 M.T. for the month of March 11 is the highest ever for any single month in the history of Southern Railway. The previous best was 3.534 M.T during the month of March 10 during 2009-10.

1.2 Originating Revenue Earning Traffic (In Million Tonnes) for 2010 -11 & 2009-10 compared with Board's target for 2010-11 are as under :—

Commodity (Target)	(2010-11) Board	2010-11 (Actual)	2009-10 (Actual)	% Variation over	
				Target	Last year
COAL	19.000	17.261	17.659	- 9.	- 2
CEMENT	4.500	3.454	4.111	- 23	- 16
FOODGRAINS	1.000	1.366	1.030	+37	33
FERTILISER	3.500	3.911	3.218	+ 12	22
POL	4.100	3.816	4.677	- 7	- 18
CONTAINER	1.850	1.763	1.505	- 5	17
OTHERS	3.750	3.536	3.531	- 6	0
TOTAL	37.700	35.107	35.731	- 7	- 2

2.1. Loading : (Daily average in terms of 8 wheelers)

COMMODITY	2010-11	2009-10	% Variation over Last year
COAL	727	746	- 3
CEMENT	149	177	- 16
FOODGRAINS	60	46	+ 29
FERTILIZERS	170	139	+ 22
POL	238	298	- 20
CONTAINER	129	104	+ 24
OTHERS	153	157	- 2
TOTAL	1626	1667	- 3

4.0. Clearance of Traffic from Ports: (April-2010 to March -2011)

There are five major ports in Southern Railway Viz, Chennai Harbour (HOM), New Mangalore Port (NMPT), Tuticorin Port (TNPT), and Cochin Harbour (CHTS) and Karaikkal Port (KIKP) (Private Port).

The traffic originated from various ports during 2010-11 compared to previous year 2009-2010 are :—

Commodity	HOM		MVTS		CHTS		PNMB		KKIP		Total		Variation in %
	09-10	10-11	09-10	10-11	09-10	10-11	09-10	10-11	09-10	10-11	09-10	10-11	
	M.T.	M.T.	M.T.	M.T.	M.T.	M.T.	M.T.	M.T.	M.T.	M.T.	M.T.	M.T.	
Coal	5.88	4.22	1.06	0.33	0.11	0.02	1.66	1.55	0.09	2.02	8.80	8.13	-8
Dolomite	0.53	0.71	0	0	0	0	0.15	0	0	0	0.67	0.71	+5
Fertilizer	0.22	0.30	0.80	0.79	0.08	0.02	0.45	0.55	0	0.47	1.55	2.14	+38
Container	0.61	0.79	0.00	0.01	0.02	0.02	0	0.02	0	0	0.63	0.84	+32
Lime-stone	0.15	1.05	0.09	0.03	0	0	0.97	0.29	0	0	1.21	1.38	+14
Gypsum	0	0	0.01	0.01	0.03	0.03	0	0.01	0	0.03	0.04	0.09	+132
others	0.01	0.11	0	0	0.03	0.03	0.20	0.04	0	0	0.24	0.16	-99
Total	7.40	7.18	1.96	1.17	0.27	0.12	3.42	2.46	0.09	2.52	13.14	13.45	+2

2.2. Wagon interchange with other Railways.

Daily average	2010-11	2009-10
Receipts	1851	2057
Despatch	1855	2056

2.3. The daily average TU releases during the year 2010-11.

2010-11	2009-10	Decrease by
2145	2292	- 7%

2.4. The EKM/Engine day :

	2010-2011	2009-2010	Increase by
Diesel	484	470	3%
Electrical	503	481	5%

3.1. Container

The traditional stream of container trains from Chennai Harbour for Whitefield in Bangalore and from Tondiarpet to Tughlakabad in New Delhi grew steadily during 2010-11.

2010-11	2009-10	% Variation
1.76 MT	1.50 MT	+17%

3.2. Long Haul Trains :

Running of long haul trains (combining of two standard trains) in Southern Railway commenced on 06.01.2011. Loaded long haul trains started from 08.03.11.

Month-wise Long haul trains run during 2010-11 is :—

Month	Empty	Load	Total
January 2011	27	0	27
February 2011	32	0	32
March 2011	35	9	44
Total	94	9	103

2. Volume of Traffic handled and Transportation out put

(Figures in thousands)

Sl. No.	Description	2010-2011	2009-2010
(a)	Passenger Carried (System) ..	788402	739237
(b)	Passenger Kms. ..	74571476	70215817
(c)	Passenger train Kms. *Excl. Deptl.	55098	52166
(d)	Total Coaching Vehicle Kms. ..	1689348	1578214
(e)	Total freight tonne Kms. ..	15774950	16672636
(f)	Goods train Kms. @ ..	11527	11967
(g)	Total Wagon Kms. ..	519759	527885
(h)	Total train Kms. (Excl. Deptl.)* ..	66625	64133
(i)	Total Engine Kms. ..	71824	68675
(j)	Total Gross Tonne Kms. (incl.weight of Engine & Deptl.) ..	82644090	78389633

(*) Includes proportion of mixed & Train Kms. of EMU stock as the trains are run and also Rail Car Kms. Converted at the rate of 3 Rail Car Kms. per train Kms. but excluding departmental.

(@) Includes proportion of mixed but exclude departmental.

3. Operating Efficiency

The important efficiency statistics are given below :-

Sl. No.	Description	Broad Gauge		Metre Gauge	
		2010-11	2009-10	2010-11	2009-10
(I)	Wagon Kms. per wagon day on line.	174.83	177.5	0.37	6.58
(II)	Coaching Vehicle Kms. per vehicle day-				
	(a) Passenger..	509	502	83	36
	(b) Other Coaching..	359	350	0	0
(III)	Percentage of loaded to total wagon Kms.	60	62	60	42
(IV)	Speed of all Goods trains (Kms. per hour).	27.5	27.0	22.4	25.0
(V)	Average starting wagon load (Tonnes).	58.8	58.4	35.4	35.4
(VI)	Loads of Goods Trains (Tonnes)-				
	(a) Net or freight load..	1,366	1,391	529	324
	(b) Gross Load (incl. weight of engine).	2,684	2,695	887	679
	(c) Gross Load (Excl. weight of engine).	2,512	2,523	629	606
(VII)	Net Tonne Km. per wagon day on line.	5,297	5,596	7	88
(VIII)	Net Tonne Km. per Locomotive day in use.	2,50,231	2,49,449	21,771	1,39,396
(IX)	Net Tonne Km. per engine hour.	13,729	13,953	75	685
(X)	Gross Tonne Km. per engine hour.	69,028	68,101	17,972	15,146

Note :-* All Wagon related items are in terms of 8 wheelers.

4. Originating Tonnage underplan heads

The break-up of freight traffic under the Plan head in terms of Originating tonnes, handled during the current year compared with the previous years is as follows :-

(Figures in Millions)

Sl. No.	Tonnage Originating	2007-08	2008-09	2009-10	2010-11
1	Coal				
	(i) Coal for Railway use	..	..	..	..
	(ii) Coal for Steel Plant	0.18	0.27	2.31	0.80
	(iii) Coal for other use	15.26	17.26	15.35	16.46
	(iv) Total Coal	15.44	17.53	17.66	17.26
2	Raw materials for steel plants (Other than coal).	0.65	0.62	1.77	2.01
3	Finished products from steel plants.	0.13	0.22	1.56	0.00
4	Cement	3.62	4.36	4.11	3.45
5	Export Ores:				
	(i) Iron Ores	0.05	0.00	0.00	0.00
	(ii) Manganese Ore	0.00	0.00	0.00	0.00
6	Miscellaneous Goods :				
	(i). Railway Materials	0.23	0.63	0.46	0.48
	(ii) Foodgrains	1.03	1.24	1.03	1.37
	(iii) Mineral Oils	4.44	4.40	4.01	3.05
	(iv) Fertilizers	2.22	2.69	3.22	3.91
	(v) Other Goods	2.22	2.63	2.37	3.97
	(vi) Total Misc. Goods	10.14	11.59	11.09	12.78
7	Total All Traffic (Revenue & Non-Revenue)	30.03	34.32	36.19	35.5

5. Passenger Operations-Performance Highlights

5.1. Special Trains run :

5.1.1. Allotment of Special trains on (FTR)

Film Shooting	FTR Special	Village on Wheels
11	28	39

5.1.2. Allotment of coaches on FTR

Total No. of Coaches	78
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5.2. Military Specials

5.2.1. No. of loaded Military specials	15
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5.2.2. No. of empty Military specials	Nil
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5.3. Alarm Chain Pulling

The following are the particulars of Alarm Chain Pulling during April 2010 to March 2011 :-

Division	MAS	PGT	TVC	TPJ	MDU	SA	Total
Total No. of cases	989	297	552	110	160	316	2424
Unjustified	351	-	363	-	-	-	714

5.4. Introduction/change in the pattern of through and sectional coaches - Nil

5.5. Overseas Traffic : Nil

5.6. Steps taken to ease over crowding :-

5.6.1. During the year(2010-11) various types of coaches namely FAC-1, FCWAC-4, ACCW-13, ACCN-18, FC-4, GSCN-41, GS-18, GSCZ-13 totally 112 were augmented by 60 pairs of Mail/Exp trains and 15 Pairs of Passenger trains on permanent basis to provide additional accommodation.

5.6.2. Trains were augmented with extra coaches to clear wait listed passengers based on the day-to-day demand 8232 coaches were attached as extra during April 2010 to March 2011.

5.6.3. To clear extra rush 2686 Special trains, (Including Summer & Winter Specials, MLMR Specials) were run during April 2010 to March 2011.

6.0. INTRODUCTION OF TRAINS:

In order to meet the increasing requirements of train services, the following new trains were introduced from Southern Railway during 2010-2011 :-

6.1 Express Trains:

Sl. No.	T.No	Description	W.E.F
1.	12867/12868	Howrah-Puducherry Exp. (Weekly)	08.04.10
2.	16175/16176	Chennai Egmore- Nagore Exp.	24.04.10
3.	12794/12793	Madurai-Chennai Egmore Exp. (Bi-Weekly)	24.04.10
4.	16854/16853	Tiruchchirappalli-Chennai Egmore Exp.	26.04.10
5.	14260/14259	Varanasi-Rameswaram Exp	02.05.10
6.	18496/18495	Bhubaneswar - Rameswaram Exp. (Weekly)	21.05.10
7.	12653/12654	Tiruchchirappalli-Mangalore Superfast Wkly Exp.	02.10.10
8.	12519/12520	Ernakulam-Pune Superfast Bi-Weekly Exp.	28.11.10
9.	12755/12756	Chennai Central-Haldia Weekly Exp.	09.12.10
10.	12223/12224	Lokmanya Tilak (T)-Ernakulam AC Duronto Exp.	19.01.11
11.	12081/12082	Kozhikode - Thiruvananthapuram Jan Shatabdi Exp.	21.01.11
12.	16537/16538	Bangalore-Nagercoil Weekly Exp.	22.01.11
13.	12758/12757	Coimbatore-Tirupati S.F Exp	25.01.11
14.	12543/12544	Yesvantpur - Tirupati Tri-weekly SF Exp.	25.01.11
15.	12243/12244	Chennai Central-Coimbatore AC Duronto Exp.-6 Days	26.01.11
16.	12753/12754	Chennai Central-New Jalpaiguri Exp.	02.02.11
17.	16780/16779	Madurai-Tirupati Exp.(Bi-Weekly)	31.03.11

6.2. Passenger Trains:

Sl. No.	T.No	Description	W.E.F
1.	56873/56874 (Old No. 813/814)	Villupuram-Mayiladuthurai Passr.	24.04.10
2.	56877/56878 (Old No.817/818)	Villupuram-Mayiladuthurai Passr.	23.04.10
3.	56331/56332 (Old No.326/325)	Punalur - Kollam Passr.	13.05.10
4.	56333/56334 (Old No.328/327)	Punalur - Kollam Passr.	13.05.10
5.	56335/56336 (Old No.330/329)	Punalur - Kollam Passr.	13.05.10
6.	56337/56338 (Old No.340/333)	Punalur - Kollam Passr.	13.05.10
7.	76813/76814	Nagore -Velankanni Passr.	20.12.10
8.	76817/76818	Nagapattinam -Velankanni Passr.	20.12.10
9.	56764/56763	Tiruchendur-Tirunelveli Passr.	25.01.11
10.	66602/66609	Erode-Coimbatore Passr.(MEMU) -6 Days	25.01.11
11.	56657	Kozhikode - Kannur Passr.	25.02.11
12.	43002	Avadi-Chennai Central EMU	25.02.11
13.	42403	Chennai Central-Sullurupetta EMU	25.02.11
14.	42802	Sullurupetta -Chennai Beach EMU	25.02.11
15.	41051	Chennai Beach - Velacherry EMU	25.02.11
16.	41052	Velacherry - Chennai Beach EMU	25.02.11
17.	43821	Chennai Beach-Tiruttani EMU	25.02.11
18.	43512	Tiruttani-Chennai Central EMU	25.02.11
19.	43431	Chennai Central Arakkonam Fast EMU	25.02.11
20.	43438	Arakkonam-Chennai Central EMU	25.02.11
21.	43029	Chennai Central-Avadi EMU	25.02.11

6.3.Trains introduced on Gauge Converted sections:-

(a) Express trains:

Sl. No.	T.No	Description	W.E.F
1	16175/16176	Chennai Egmore- Nagore Exp.	24.04.10
2	12794/12793	Madurai-Chennai Egmore Exp. (Bi-Weekly)	24.04.10
3	16854/16853	Tiruchchirappalli-Chennai Egmore Exp.	26.04.10
4	18496/18495	Bhubaneswar - Rameswaram Exp. (Weekly)	21.05.10
5	4260/4259	Varanasi - Chennai Egmore Exp to Rameswaram.	02.05.10

(b) Passenger trains :

Sl. No.	T.No	Description	W.E.F.
1	56873/56874 (Old No.813/814)	Villupuram-Mayiladuthurai Passr.	24.04.10
2	56877/56878 (Old No.817/818)	Villupuram-Mayiladuthurai Passr.	23.04.10
3	56331/56332 (Old No.326/325)	Punalur - Kollam Passr.	13.05.10
4	56333/56334 (Old No.328/327)	Punalur - Kollam Passr.	13.05.10
5	56335/56336 (Old No.330/329)	Punalur - Kollam Passr.	13.05.10
6	56337/56338 (Old No.340/333)	Punalur - Kollam Passr.	13.05.10
7	76813/76814	Nagore -Velankanni Passr.	20.12.10
8	76817/76818	Nagapattinam -Velankanni Passr.	20.12.10

6.4.Trains Extended

(a) Mail/Express

Sl. No.	Train.No.	Description	Extended to	W.e.f.
1	12133/12134	Mumbai CST -Karwar Exp.	Mangalore Jn.	14.08.10
2	16341/16342	Ernakulam - Thiruvananthapuram - Ernakulam Express.	Guruvayur.	08.01.11
3	12778/12777	Kochuveli-Yesvantpur Exp.	Hubli	20.01.11

(b) Passenger

Sl. No.	Train.No.	Description	Extended to	W.e.f.
1.	56603 (Old No.615).	Trissur - Kozhikode Passr.	Kannur	01.11.10
2.	56602 (Old No.616).	Kozhikode - Shoranur Passr.	Kannur	01.11.10
3.	56654 (Old No.624).	Mangalore - Kannur passenger	Kozhikode	01.11.10

6.5. INCREASE IN FREQUENCY:

1	12997/12998	Tirunelveli - Hapa Super fast Exp.	From weekly to Bi-weekly	01.05.10
2	12269/12270	Chennai Central - Nizamuddin Duronto Exp.	From weekly to Bi-weekly	11.06.10
3	16527/16528	Yesvantpur - Kannur Exp	From Tri-weekly to daily.	25.06.10
4	12245/12246	Howrah -Yesvantpur Duronto Exp.	From weekly to four days a week .	10.10.10

6.6. Conversion into Superfast Trains : NIL

6.7. MEMU Services introduced during 2010-11:- 66602/66609
Erode-Coimbatore Passr.(MEMU) -6 Days w.e.f 25.01.11

6.8. Trains Diverted:-

- (i) Train No.6736 TCN-MS Weekly Express diverted to run via VM-MV Mainline section with effect from 29.07.2010 and Train No.6735 MS-TCN Weekly Express diverted to run via VM-MV Mainline section with effect from 30.07.2010.

- (ii) Train No.6101/6102 MS-RMM-MS Express diverted to run via VM-MV Mainline section with effect from 01.08.2010.

6.9 Suburban Trains:

As on 31.03.2011, a total number of 242 EMU trains are running on Chennai Beach – Tambaram BG section.

6. Wagon Position and Wagon Usages

The supply of wagons and loading in the current year compared to previous year is given below—(in terms of daily average number of wagons):—

Sl. No.	Description	Broad Gauge		Metre Gauge	
		2009-10	2010-11	2009-10	2010-11
(a)	No. of wagons owned (in terms of 8-wheelers) ..	9,700	9,658	428	418
(b)	Inter-change debit/credit balance	n/a	n/a	n/a	n/a
(c)	Average wagon holding (in terms of 8-wheelers) ..	8,148	8,145	65	36
(d)	No. of wagons loaded :				
	(i) Originating	1,659	1,620	1	0
	(ii) Transshipment	0	0	0	0
	(iii) Repacked	0	0	0	0
	(iv) Coaching Traffic	0	0	0	0
	(v) Total loading	1,659	1,620	1	0
(e)	No. of loaded wagons received daily from other Rlys.	1,627	1,403	0	0
(f)	Turn round of wagons (on line)	n/a	n/a	n/a	n/a

Note.—All Wagon related items are in terms of 8 wheelers.
n/a – not available ** Revised

7. Wagons on Line

(a) The actual No. of wagons for the last years was as under :

(Figures in Millions)

Gauge	Current year 2010-11	Previous year 2009-10	Percentage variation over previous year
Broad	10,053	10,120	-0.66
Metre	427	480	-11.04
Total	10,480	10,600	-1.13

(b) The average No. of wagons on line pooled and non-pooled as under (in terms of 8-wheelers)

Gauge	Current year 2010-11	Previous year 2009-10	Percentage variation over previous year
Broad	8,145	8,148	-0.04
Metre	36	65	-44.62

(c) The No. of wagons loaded and transhipped at break of gauge junctions excluding those booked at coaching rates and wagons into which Goods were transhipped or repacked in the same gauge during the current year as compared with previous year were as under :—

Gauge	Current year 2010-11	Previous year 2009-10	Percentage variation over previous year
Broad	5,91,236	6,05,385	-2.34
Metre	0	500	-100.00

(d) The No. of loaded wagon received from other Railways during the current year compared with the previous year was as under (in terms of 4-wheelers) :

Gauge	Current year 2010-11	Previous year 2009-10	Percentage variation over previous year
Broad	5,11,942	5,93,801	-13.79
Metre	0	0	..

(e) The daily average percentage of wagons not available for use for year under review as compared with the previous year was as under (in terms of 4-wheelers).

Gauge	Current year 2010-11	Previous year 2009-10	Percentage variation over previous year
Broad	6.14	6.72	-8.6
Metre	0	0	..

8. Statement of Net Tonne Kms. (Originating)

(Figures in Millions)

Particulars	Current year 2010-2011	Previous Year 2009-2010
I. Coal		
(i) Coal for Railway Use	..	..
(ii) Coal for Steel Plants	143.01	176.38
(iii) Coal for Other Use	4,101.66	3,955.25
(iv) Total Coal	4,244.67	4,131.63
II. Raw Materials for Steel Plants (Other than Coal).	252.29	115.66
III. Finished products from Steel Plants	607.98	540.42
IV. Cement	2,625.44	2,597.84
V. Export Ore		
(i) Iron Ore	269.87	1,262.19
(ii) Manganese Ores	..	..
VI. Miscellaneous Goods		
(i) Railway Material	46.92	40.71
(ii) Foodgrains	3,217.45	3,506.36
(iii) Mineral Oil	938.31	1,206.95
(iv) Fertilizer	1,729.41	1,448.31
(v) Other Goods	1,842.65	1,820.57
(vi) Total Misc. Goods	7,774.74	8,024.90
(vii) Total all traffic	15,774.99	16,672.64

9. Engine usage

The more important statistics of engine usage are given below :—

1. Engine Kms. ind. shunting—(Allotment basis)

(Figures in thousands)

Particulars	Current Year 2010-2011	Previous Year 2009-2010	% variation over previous year
(a) Passenger			
B. G. Steam	..	..	..
Dsl. Elec.	26,289	25,165	4.47
Dsl. Hyd.	..	..	..
Elec.	33,334	32,064	3.96
Total	59,623	57,229	4.18
M. G. Steam	19	12	58.33
Dsl. Elec.	509	636	-19.97
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	528	648	-18.52
(b) Goods			
B. G. Steam	..	..	..
Dsl. Elec.	10,826	11,358	-4.68
Dsl. Hyd.	4	12	-66.67
Elec.	12,473	11,868	5.10
Total	23,303	23,238	0.28
M. G. Steam	..	..	..
Dsl. Elec.	1	7	-85.71
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	1	7	-85.71
(c) Mixed			
B. G. Steam	..	..	..
Dsl. Elec.	..	..	..
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	..	..	..
M. G. Steam	..	..	..
Dsl. Elec.	..	..	..
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	..	..	..

(Figures in thousands)

Particulars	Current Year 2008-2009	Previous Year 2007-2008	% variation over previous year
(d) Total EKMs incl. Deptl.			
B. G. Steam	..	..	..
Dsl. Elec.	43,586	41,129	5.97
Dsl. Hyd.	1,630	1,810	-9.94
Elec.	46,908	44,610	5.15
Total	92,124	87,549	5.23
M. G. Steam	41	44	-6.82
Dsl. Elec.	578	696	-16.95
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	619	740	-16.35
II. Engine Kms. per day per engine in use :			
(a) Passenger Service			
B. G. Steam	..	..	..
Dsl. Elec.	575	517	11.22
Dsl. Hyd.	..	..	..
Elec.	602	610	-1.31
Total	@	@	..
M. G. Steam	34	33	3.03
Dsl. Elec.	96	99	-3.03
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	..	..	..
(b) Goods Service			
B. G. Steam	..	..	..
Dsl. Elec.	341	348	-2.01
Dsl. Hyd.	19	20	-5.00
Elec.	420	390	-7.69
Total	@	@	..
M. G. Steam	..	..	..
Dsl. Elec.	300	442	-32.13
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	@	@	..
III. Engine Kms. per day per engine on line (All services) :			
B. G. Steam	..	..	..
Dsl. Elec.	404	384	5.21
Dsl. Hyd.	124	117	5.98
Elec.	402	410	-1.95
Total	@	@	..
M. G. Steam	14	15	-6.67
Dsl. Elec.	86	87	-1.15
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	@	@	..

@ As the method for compilation of Engine Kms. per day per engine in use/ on line is different for different tractions the data for combined traction have not been shown.

10. Punctuality of Passenger Trains

The punctuality performance of passenger carrying trains on the Broad/Metre Gauges during the current year and previous year is given below :

Particulars	Current Year 2010-11	Previous Year 2009-10
B.G. Mail & Express	89.6	82.9
Passenger	94.4	91.9
Suburban (EMU)	96.0	99.4
M.G. Mail & Express	99.5	99.5
Passenger	95.7	97.3
Suburban (EMU)	..	..

Punctuality percentage of Passenger carrying trains (Gauge-wise)—NLT BASIS

Broad Gauge					Metre Gauge			
	Target	2009-10	Target	2010-11	Target	2009-10	Target	2010-11
Mail/Exp.	90.0	85.6	90.0	92.1	90.0	99.5	90.0	99.5
Passenger	95.0	91.9	95.0	94.4	95.0	97.3	95.0	95.7
Suburban	97.5	99.4	97.5	96.0	..	..	..	..

Broad Gauge				Metre Gauge	
	2009-10	2010-11		2009-10	2010-11
No. of trains run	70,083	74,322		589	729
No. of trains not losing	60,016	68,483		586	725
No. of trains losing	10,067	5,839		3	4
Percentage	85.6	92.1		99.5	99.5

RIGHT TIME BASIS					
Broad Gauge			Metre Gauge		
	2009-10	2010-11		2009-10	2010-11
Mail/Exp.	82.9	89.6		99.5	99.5

The 'Integrated Coaching Management System' (ICMS) of monitoring Punctuality of trains has been implemented with effect from 1st January 2009 with 'ZERO minute' tolerance for originating and through trains and 15 minutes for terminating trains for reckoning 'Not losing time' on Zonal Railway.

11. Water Supply

Sl. No.	Division Sec/Station	Description of works	Amount in ₹ in lakhs
A. Works completed			
(i) Works costing more than ₹ 5 lakhs each			
1.	Chennai	Nil	..
2.	Salem	PTJ - Construction of OHT 90000 litres capacity and replacement of pipe line grid at 20 block area.	.. 49.50
		TUP - Construction of OHT 45000 litres capacity including pipe line arrangements from well to godshed area (I. d : 1849/08-09) CE/OL.	.. 45.00
		CBE Jn. - Provision of reverse Osmosis plant for providing drinking water to passengers.	.. 29.00
		PTJ - S & T workshop Installation of reverse osmosis plant	.. 8.00
3.	Palakkad	Nil	..
4.	Trivandrum	Nil	..
5.	Tiruchchirappalli	Ponmalai - Replacement of pipe lines in colony to ensure uniform distribution of water supply (C type 1300 & F type 500).	61.00
6.	Madurai	Nil	..
7.	CN/MS	Nil	..
8.	MTP	Nil	..
(ii) Works costing less than ₹ 5 lakhs each			
1.	Chennai	SP - Provided Electro chlorinator	.. 0.50
3.	Palakkad	Nil	..
4.	Trivandrum	Nil	..
5.	Tiruchchirappalli	Nil	..
6.	Madurai	TML/SE/W/SCT Section	..
		TML Station—Repairs to corroded delivery pipe line from OHT to pumphouse	.. 0.99
		TML Station— 2. Repairs to corroded pipe line at South & North Railway Quarters.	.. 0.70

Sl. No.	Division	Station & Name of work	Amount in ₹ in lakhs
		PUU/SE/W/SCT Section.	
		3. PUU Station - Replacing corroded pipe line from Qrs. No. 6 to 12A-B	0.50
		PUU/SE/W/SCT Section.	
		4. PBKS Station - Repairs to Pipe line and paving blocks at SCT end.	0.79
7.	CN/MS	Nil	
8.	MTP	Nil	
B. Works in Progress			
(i) Works costing more than ₹ 5 lakhs each			
1.	Chennai	AVD - Water supply through lorry	25.14
		AJJ - Provision of new RCC. OHT. 2.00 lakhs litre capacity of tank at Winterpet colony.	30.00
2.	Salem	Provision of drinking water facilities at Goodsheds at SA, SAMT, ..	50.00
		ED,IGU,PLMD&CBF.	
		PTJ - Provision of individual storage water tank at staff quarters (400 Nos) and augmentation of water supply by drilling three more borewells and pipe line arrangements (id.1359/08-09) CE/OL.	49.00
		KRR sub division - Replacement of corroded pipe line. Improvements to sewage system at various stations.	85.00
		PTJ - Provision of purified drinking water to stations through water treatment	20.00
3.	Palakkad	Nil	
4.	Trivandrum	Ernakulam coaching complex - working arrangements by laying 200 mm dia. Pipe from Muvatupuzha near Piravam Road station.	806.00
		CGV, ETM, TRVL—Improvements to water supply arrangements	24.00
		ALLP—Repairs water hydrants	9.33
		NCJ Proposed water hydrant in road No. 1A	24.51
		TVC - Provision of carriage watering arrangement.	68.92
		Quilon - Provision of tube well.	6.99
		NCJ - Provision of borewell.	28.60
5.	Tiruchchirappalli	Nagappattinam & Nagore - Augmentation of water supply at NGT, NCR (id:1578/07-08), CE/OL.	15.00
6.	Madurai	1. DG Jn. - Construction of RCC GLR and over head tank of 90000 lits. Capacity for augmenting drinking water supply for station including laying of water pipe line form Km 3 - 4.5.	99.107
		DG Jn. - Construction of RCC tank 1 lakhs capacity including renewal of existing corroded pipe line at Hanumantha Nagar Colony. TEN Jn.— Reconstruction of RCC OHT of 90,000 lit. capacity in Jawahar Colony.	
		DG/SE/W/DG section.	
		2.DG - Augmentation of water supply storage for the requirement of station cleanliness.	7.63
		3. PDKT-SE/W/KKDI.	16.00
		1. Pudukottai - OHT	
		2. Karaikkudi borewell & Augmentation of pipe line.	
		4. TEN/SE/W/TEN	13.97
		1. Reconstruction of RCC OHT of 90000 litres capacity in Jawahar colony at TEN.	
		2. Construction of RCC IOHT 2,25,000 lits. With pipe line arrangements from TBR.	
		3. TN - Renewal of corroded pipe line.	
		5. SE/W/SCT-TSI	40.63
		1. Construction of RCC OHT 90000 lits capacity to augment - Water supply at TSI.	
		Construction of RCC OHT 90,000 capacity to augment water supply.	
7.	CN/MS	Nil	
8.	MTP	Nil	
(ii) Works costing less than ₹ 5 lakhs each			
1.	Chennai	Nil	
2.	Salem	Nil	
3.	Palakkad	Nil	
4.	Trivandrum		
5.	Tiruchchirappalli	Nil	
6.	Madurai	Nil	
7.	CN/MS	Nil	
8.	MTP	Nil	

12. WORKING OF TRANSHIPMENT POINTS—Nil**13. ACTION TAKEN TO MAINTAIN CLEANLINESS AT STATION PREMISES.**

	Division/ No. of stations in A1, A, B	Implemented	To be implemented
MAS	A1-2 A-3 B-3 Total-8	A1-2-MAS-MS. A-3-CGL, KPD, JTJ B-1 MLMR (Total-6).	B-2(AB, TRT) (Total-2)
PGT	A1-0 A-6 B-8 Total-14	A-6 (PGT, SRR, CAN, MAQ, TLY, CLT.) B-3 (TIR, BDJ, MAJN) (Total-9).	B-5-(KZE, OTP, KTU, KGQ, PAY) (Total-5)
TVC	A1-2 A-11 B-3 Total-16	A1-2-(TVC, ERS) A-11 (TCR, QLN, CAPE, NCJ, ERN, KTYM, ALLP, AWY, CNGR, TRVL, KYJ) B-3 (GUV, VAK) Total-16	Nil
SA	A1-1 A-4 B-1 Total-6	A1-1 (CBE) A-4 (ED, SA, MTP, TUP) B (KRR) Total-6	Nil
TPJ	A-3 B-3 Total-6	A-3-TPJ, TJ, VM B-3 (MV, KMU, VRI) Total-6	Nil
MDU	A1-1 A-5 B-2 Total-8 58	A1-1 (MDU) A-5 (DG, VPT, TN, TEN, CVP) B-1 (TSI) Total-7 50	B-1 (RMM) Total-1 12
C-Category Stations- 79 Stations		2-Stations—MMC & MSB 15 Stations on quotation basis.	Action is initiated to float tenders at remaining stations.

D E F Category Stations – Cleaning activities managed by utilization of imprest.

15. Specific Fuel Consumption—Brief Remarks for the variation—Period : April 2010 to March 2011 compared with April 2009 to March 2010.

Service	Apr. 09 to Mar. 10	Apr. 10 to Mar. 11	Variation	Remarks
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Broad Gauge

Steam Traction No service

METRE GAUGE—STEAM TRACTION

Pass. and Prop. of Mixed.	360.2	759.7	(+) 399.5	This is minor service operated in mountain railways and it will not be realistic to compare with previous year.
Goods and Prop. of Mixed	No Service	—	—	—

DIESEL TRACTION—BROAD GAUGE

Pass. and prop of mixed.	4.39	3.96	-0.43	Favourable.
Goods and prop. of mixed.	2.26	2.12	-0.14	Favourable.

DIESEL TRACTION—METRE GAUGE

Pass. and prop mixed.	6.20	6.44	+0.24	Not comparable due to Gauge conversion.
Goods and prop. of mixed.	5.40	8.07	+2.67	

Statement No. 26(a)**Shed wise and field wise Coal Supplied (in tonnes) for 2010-2011**

Field	Grade "A"	Grade "B"	Grade "C"	Grade "D"	Non Graded	Total
Bentgal & Bihar Coal	Nil.	1177	—	—	—	1177
Singareni Coal	—	—	—	—	—	—
MPVP Coal	—	—	—	—	—	—
Total	Nil.	1177	—	—	—	1177

Grade wise Consumption (in tonnes) for Locomotive and Non-Locomotive purpose

Kind of Coal	Loco-Purpose		Non-Loco Purpose		Total	
	Apr.-09	Apr.-10	Apr.-09	Apr.-10	Apr.-09	Apr.-10
	to Mar-10	to Mar-11	to Mar-10	to Mar-11	to Mar-10	to Mar-11
Grade "A"	111	0	—	—	111	0
Grade "B"	1398	580	—	—	1398	580
Grade "C"	—	—	—	—	—	—
Grade "D"	—	—	—	—	—	—
Non Graded	—	—	—	—	—	—
Wood (in terms of Coal)	—	—	—	—	—	—
Salvage	—	—	—	—	—	—
Coke (in terms of Coal)	—	—	320	313	320	313
Total	1509	580	320	313	1829	893

FUEL ECONOMY CAMPAIGN

1. Introducing high power diesel locos WDP4 and WDG4.
2. Computerization of fuel account in all RCD.
3. DEMU are utilized in light load passenger service.
4. Close monitoring of the performance of individual shed wise and loco type wise.
5. Shed staff are deputed to other Railway to collect the loco earnings every month.
6. SLI/LI's are deputed to DTC to improve their efficiency regarding new locos.
7. Review meetings are conducted at Hqrs. with LI's of the division periodically.
8. Trip rations are monitored at divisional level to improve the Performance.
9. All possible efforts are taken for optimum utilization of locos with appropriate loads.
10. Service wise issues are monitored for inferior locos.

16. Input/Output Ratio

Particulars	2010-11	2009-10	Variation % over previous year
1. INPUT			
(i) No. of Goods Engines incl. proportion of mixed engine to be distributed to Passenger & Goods service in ratio of mixed hrs. equated in terms of steam locomotives by taking main line Diesel/Electric equivalent to 2.5 Steam and Dsl. and Elec. Shunter to 1.5 steam.	439.0	467.3	-6.07
(ii) Wagon holdings in terms of 4-wheelers	8,181	8,213	-0.39
(iii) Additional capital investments on line capacity & terminal capacity (Rs. in lakhs).	N/A	N/A	N/A
2. OUTPUT			
(i) GTKMs. incl. Wt. of Engines (in lakhs) on ownership basis as per train documents Goods & prop. of mixed.	4,15,417	3,92,234	5.91
(ii) NTKMs (in lakhs) on ownership basis as per train documents Goods & prop. of mixed.	1,78,509	1,88,727	-5.41
(iii) Average daily loading incl. Transshipment at BG, MG & NG (Revenue & Non-Revenue).	1,620	1,660	-2.41
Average daily loaded receipts	1,403	1,627	-13.77
Total loading and loaded receipts	3,023	3,287	-8.03
<u>AVERAGE</u>			
Wagon Kms. Per wagon day on line			
BROAD GAUGE	174.8	177.5	1.50
METRE GAUGE	0.37	6.58	-94.38



VI. COMMERCIAL

1. Revision of Passenger Fares :

Over Southern Railway the T. No. 12081/12082 Jan Shatabdi Express between Kozhikode and Thiruvananthapuram was introduced on 20th January 2011 and T. No. 12243/12244 "DURONTO" Express between Chennai Central to Coimbatore was introduced on 27th January 2011 and run of all days except Tuesday.

2. Concession in Fares :

Cancer concession

I. Existing rule

As per S. No. 11 (1) & (2) of Annexure to Rule 101 of IRCA Coaching Tariff No. 25, Part I, Vol. II., Cancer patients accompanied by an escort or travelling alone are eligible for concession class wise as appended below :—

Class	Percentage of concession
AC 1 Class	50%
AC 2-tier	50%
AC 3-tier	75%
AC Chair Car	75%
First Class	75%
Sleeper Mail/Exp.	75%
Second Mail/Exp.	75%

II. Revised Rule : —With effect from 20th April 2010, the element of concession for cancer patients only travelling in 3AC and Sleeper has been enhanced from 75% to 100% and concession granted for escort in 3 AC and Sleeper remains unchanged at 50% and 75%.

The element of concession for cancer patients and their escorts in other classes i. e. 2nd/1st class A/C Chair car and 2-A/C and 1 A/C remains unchanged at 75% and 50% respectively.

Introduction of concession to Technicians of Regional film industry.

With effect from 1st July 2010, concession has been introduced to Technicians of Regional Film industry at 75% in sleeper class and 50% in first class, A/C chair car, A/C 3-tier and AC 2-tier.

1. Entitlement :

1.1 Only for the purpose of concession, the following are to be treated as Regional Film Industries :—

1. Assamme	16. Maithili
2. Avadhi	17. Malayalam
3. Bagada	18. Manipuri
4. Bengali	19. Marathi
5. Bhojpuri	20. Mizo
6. Bodo	21. Nagamese
7. Chattisgarhi	22. Nagpuri
8. Dimasha	23. Oriya
9. Garhwaali	24. Punjabi
10. Gujarati	25. Rajasthani
11. Hariyanvi	26. Rajbhanshi
12. Khasi	27. Tamil
13. Kodava	28. Telugu
14. Konkani	29. Tulu
15. Lambani	

Film Technicians :

1.2 Only for the purpose of concession, the following are to be treated as Technicians :—

I. Cinematographers	X. Dancers and Dance Directors
II. Editors	XI. Set workers
III. Art Directors	XII. Sound Recordist
IV. Costumers	
V. Outdoor unit Light men	
VI. Outdoor unit technicians	
VII. Carpenters	
VIII. Still photographers	
IX. Stunt artistes	
X. Movie still Cameraman	
XI. Music composers	
XII. Musicians	

3. Admissibility of Concession:

3.1. The concession is admissible in all trains including Rajdhani, Shatabdi and Jan Shatabdi trains but not admissible in Duronto, Yuva and Garib Rath trains.

3.2. This concession is not valid in case of season tickets, circular journey tickets and tickets for local/suburban/passenger trains.

3.3. The concession will not be granted once the passenger already in the train i. e. if the concerned person enters the train without proper ticket or wants to extend journey on concession ticket or changes ticket to higher class, this concession ticket or changes ticket to higher class, this concession will not be granted.

3.4. Only one concession (Film Technicians/Sr. Citizens etc.) is admissible at a time.

4. Calculation of concessional fare :

4.1. In case of Rajdhani, Shatabdi, and Jan Shatabdi, the concession will be granted on the all inclusive fare of the concerned class.

4.2. In other trains, concession will be calculated in the basic fare and all other charges will be levied in full.

5. Authority recognized for concession :

The President/Secretary of the concerned Producer's Association should forward the application of the producer alongwith the original photo identity card issued by the Employees Association of all technicians desire to travel to the Division concerned.

6. Revision of rates for Goods Traffic

The freight rates have been revised from 27th December 2010 with following changes in the classification of certain commodities :—

1. The trained classification of Sugar has been enhanced from Class 110 to Class 120
2. The trainload classification of "De-oiled cake" Indexed under the main-head "Oil Cakes and Seeds" has been revised from Class 110 to Class 120.
3. The trainload classification of Food grains and Chemical Manures stands revised from Class 130 to Class 130 A.

II. Dynamic pricing Policy :

Dynamic pricing refers to tariff measures for management of seasonal and regional skew in demand for wagons with the objective of optimizing utilization of transport capacities and reducing Idling of assets and capacities.

The following are various charges/surcharges which were in force during 1st April 2010 to 31st March 2011 :—

Busy Season Surcharge :

Busy Season Surcharge on freight charges at the rates mentioned in the table below has been levied during the busy season extended from 1st April 2010 to 30th June 2010 and 1st October 2010 to 31st March 2011.

Sl. No.	Commodities	Rate of Surcharge
1	Coal and Coke Group	5%
2	All other commodities	7%
3	Container traffic	Nil

Congestion Surcharge :

Congestion charge on freight charges at the rates mentioned in the table below during the period extended from 1st April 2010 to 31st March 2011.

Sl. No.	Commodities	Rate of Surcharge
1	All traffic to Bangladesh	20%
2	All traffic to Pakistan	20%

4. Concession rates :

With effect from 1st April 2010 to 31st March 2011 inflation concession of Rs. 100 per wagon is allowed for food grains for domestic use and Kerosene oil.

5. Revision of minimum weight condition :

The concept of minimum weight condition had been abolished with effect from 1st April 2005. Accordingly, effective from 1st April 2005 the chargeable weight for different commodities Heads have been revised to "Carrying Capacity" or "Enhanced Carrying Capacity".

With effect from 1st June 2007, all BG routes on Indian Railways (except certain excepted routes) have been universalized as CC + 6 routes. Further, as a pilot project certain routes on Indian Railways have been identified as CC + 8 routes for selected commodities with higher permissible carrying capacity. The Permissible Carrying Capacity for each type of wagons on CC + 6 routes and CC + 8 routes have been notified by Board from time-to-time. The validity of the pilot project introduced from 15th May 2005 has been notified to remain in force until further advice.

In the pilot project of CC + 8 routes, the following routes covering Southern Railway have been included :—

1. Vasco-Hospet-Guntakal-Renigunta-Vysarpadi-Chennai (HOM).
2. Vyasarpadi-Korukkupet-Tondiarpet-Attipattu-Ennore.
3. Gudur-Chennai.
4. Madagon-Ankola-Thokur-Panamburu.
5. Arakkonam-Jolarpettai-Magnesite-Mettur Dam (included with effect from 1st July 2011).

6. Rebate on Export Traffic :

The scheme was not in force in 2010–2011.

7. Introduction of Freight Incentive Schemes :

The following Freight Incentive Schemes are in force from 1st January 2010 :—

- a. Incentive Scheme for Loading Bagged Consignments in Open & Flat wagons.
- b. Incentive Scheme for Traditional Empty Flow Direction.
- c. Incentive Scheme for Freight Forwarders.
- d. Incentive Scheme for Incremental Traffic.

All the Incentive Schemes are sanctioned at Divisional level by DRMs.

The performance under various Freight Incentive Schemes is given below :—

1) Incentive Scheme for Loading Bagged consignments in Open & Flat wagons :

Nil.

2) Incentive Scheme for Traditional Empty Flow Direction :

January—December 2010.

Name of the Firm availed the Scheme	Quantum moved (in tonnes)	Incremental quantum achieved (in NTKMs)
M/s. Madras Fertilizers Ltd.	2 73 30 741	1 24 11 662
M/s. FACT/ERNF (Inter Railway)	35 65 23 444	32 95 23 444
M/s. FACT/ERNF (Inter Railway)	3 33 29 348	1 00 19 507
M/s. FACT/KLMR (Inter Railway)	21 76 15 598	14 68 07 808
M/s. FACT/KLMR (Intra Railway)	1 38 37 118	32 84 026

January—March 2011.

Name of the Firm availed the Scheme	Quantum moved (in tonnes)	Incremental quantum achieved (in NTKMs)
Nil	Nil	Nil

3) Incentive Scheme for Freight Forwarders : (April 2010–March 2011)

Name of the Firm availed the Scheme	Quantum moved (in tonnes)	Freight collected (₹)
3	1 09 338	13 46 76 673

4) Incentive Scheme for Freight Incremental Traffic :
January–December 2010.

Name of the Firm availed the Scheme	Bench Mark fixed for the year (in NTKMs)	Quantum moved (in tonnes)	Incremental quantum achieved (in NTKMs)
M/s. Thirumalai Chemicals Ltd.,	63 59 288	88 39 551	24 80 263
M/s. Ultra tech Cements Ltd.,	5 90 67 837	8 21 11 107	2 30 43 270
M/s. Madras Cements Ltd.,	43 54 29 663	48 77 28 003	5 22 98 340
M/s. JSW Ltd.,	15 66 06 085	17 47 90 231	1 81 84 145
M/s. Mangalore Chemicals & Fertilizers Ltd.,	36 50 10 584	40 23 18 883	3 73 08 299
M/s. FACT KLMR	9 08 80 064	16 96 30 753	7 87 50 689

January–December 2011.

Name of the Firm availed the Scheme	Bench Mark fixed for the year (in NTKMs)	Quantum moved (in tonnes)	Incremental quantum achieved in NTKMs)
M/s. Ultra tech Cements Ltd.,	8 84 82 582	2 70 57 404	—

8. (a) Claims Registration

Year	Parcels	Goods	Total
2009-10	415	120	535
2010-11	1320	320	1640

(b) Claims Performance

Details	2009-10	2010-11
Opening Balance ..	49	32
Registration ..	535	1640
Re-opened ..	125	92
Total ..	709	1764
No. of cases paid ..	148	111
No. of cases repudiated ..	529	1507
Total Disposal ..	677	1618
Closing Balance ..	32	146
Amount paid (Excl. court cases) ..	5.15	3.53
Amount paid in court cases ..	8.86	1.62
Total amount paid ..	14.01	5.15
Average time for disposal ..	40 days	59 days

(c) Cause-wise Analysis of Claims Paid : (including court)

Claims paid on Account of	Year	Number	Amount Rs. in lakhs)
Complete loss ..	2009-10	148	12.09
..	2010-11	86	2.65
Theft of complete packages ..	2009-10	0	0
..	2010-11	0	0
Pilferages ..	2009-10	3	0.51
..	2010-11	4	0.28
Damage by wet ..	2009-10	2	1.01
..	2010-11	0	0
Delay in transit ..	2009-10	1	0.07
..	2010-11	0	0
Breakage ..	2009-10	2	0.12
..	2010-11	0	0
Leakage ..	2009-10	0	0
..	2010-11	0	0
Others ..	2009-10	2	0.23
..	2010-11	23	0.94
Total ..	2009-10	158	14.03
..	2010-11	113	3.87

(d) Commodity Analysis of Claim Paid : (including court)

Claims paid on Account of	Year	Number	Amount Rs. in lakhs)
Grains & Pulses ..	2009-10	01	0.03
..	2010-11	21	0.27
Iron & Steel ..	2009-10	0	0
..	2010-11	0	0
Cotton piece goods ..	2009-10	09	0.08
..	2010-11	0	0
Chemicals & Manure ..	2009-10	01	0.98
..	2010-11	0	0
Coal & Coke ..	2009-10	0	0
..	2010-11	0	0
P. O. L. ..	2009-10	04	7.30
..	2010-11	0	0
Others ..	2009-10	143	4.89
..	2010-11	111	3.60
Total ..	2009-10	158	14.03
..	2010-11	113	3.87

(e) Court Cases Disposal : (excluding Accident cases)

Details	2009-10	2010-11	% Variation
Opening Balance ..	369	386	+ 5
Registration ..	114	100	- 12
Transferred cases ..	..	..	..
Total ..	483	486	+ 1
Settled out of court ..	..	..	..
Decreed ..	47	59	+ 26
Dismissed ..	34	74	+ 118
Others ..	16	16	..
Total ..	97	149	+ 54
Closing Balance ..	386	337	- 13

(f) Court cases trend (Benchwise, excluding accident cases)

RCT	Opening Balance	Regis- traction	Total	Disposal	Closing Balance
RCT/MAS	08	03	11	06	05
RCT/ERS	02	01	03	01	02
RCT/SBC	02	..	02	..	02
Other Railways RCT Cases	189	02	191	29	162
Civil Suits	04	..	04	..	04
Consumer Forum cases	132	92	224	96	128
Appeal cases in High Courts & Supreme Court	49	02	51	17	34
Total	386	100	486	149	337

(g) Accident cases (Section 124)

RCT	Opening Balance	Regis- traction	Total	Disposal	Closing Balance
RCT/MAS	15	03	18	18	..
RCT/ERS	02	..	02	02	..
Other Railways RCT Cases	..	01	01	..	01
Appeal cases in High Courts	14	01	15	07	08
Total	31	05	36	27	09

(h) Accident cases (Section 124-A)

RCT	Opening Balance	Regis- traction	Total	Disposal	Closing Balance
RCT/MAS	145	178	323	258	65
RCT/ERS	105	59	164	111	53
RCT/SBC	03	03	06	..	06
Other Railways RCT Cases	57	21	78	07	71
Appeal cases in High Courts	207	43	250	53	197
Total	517	304	821	429	392

(i) P. S. Us.

RCT's	Opening Balance	Regis- traction	Total	Disposal	Closing Balance
RCT/MAS	..	02	02	..	02
RCT/ERS	02	..	02	02	..
RCT/SBC	02	..	02	..	02
Other Railways RCT Cases	33	..	33	17	16
Appeal cases in High Courts & S/C	06	02	08	..	08
Total	43	04	47	19	28

9. Claims prevention – Preventive Measure :**(a) N. R. Cell**

A total of 153 wagon load consignments were disposed off by the NR Cell of this Railway thereby averting claims to the tune of Rs. 2025 Lakhs. 1003 Parcel cases were also disposed by the NR Cell during the same period.

Details	Wagon Loads			Parcels		
	2009-10	2010-11	% Variation	2009-10	2010-11	% Variation
Opening Balance	06	10	66	78	51	-34
Regis- tration	156	156	..	971	969	..
Total	162	166	02	1049	1020	-2
Disposal	152	153	..	998	1003	..
Closing Balance	10	13	30	51	17	-66
Amount saved	2220	2025.4	-8.77	127	133.99	5.59

(b) C. P. Checks :

During the year 2010-11, 260 Claim Prevention Checks were conducted at important Stations/Goods Sheds/Parcel Offices. Irregularities noticed during these checks were brought to the notice of those concerned for taking necessary action.

10. Lost Property Office**(a) Position of unconnected/undelivered parcels :**

Details	2009	2010-11
Opening Balance	353	459
Registration	2008	1677
Total	2361	2136
Disposal	1902	1780
Closing Balance	459	356

(b) Auction at lost property offices :

LPO	Opening Balance	Regis- tration	No. of Auctions conducted	No. of disposed through Auction	Amount realised ₹
SO/MAS	322	740	48	565	10,97,995
ED	20	53	04	27	13,500
CBE	20	314	14	259	1,07,592
CLT	12	162	08	138	1,38,325
ERS	02	39	05	26	39,016
TVC	39	87	08	59	35,067
QLN	11	27	04	15	18,130
MDU	11	152	08	105	59,647
TPJ	22	103	04	60	14,474
Total	459	1677	103	1,144	15,23,746

11 Refunds on Goods Traffic

Sl. No.	Description	April to March	
		2009-10	2010-11
1	Number of cases carried forward from previous year.	2,647	396
2	No. of cases received/re-opened during the year.	7,932	14,828
3	Number of cases disposed off during the year.	10,183	14,576
4	Number of cases on hand at the end of the year and carried forward to next year.	396	648
5	Number of cases outstanding for over 3 months but less than 6 months.	28	113
6	Number of cases outstanding for over 6 months.	175	125
7	Number of cases pending in the court at the end of the year.	13	1
8	Average time taken to settle	23.53	22.12

Registration of refund claims during April 2010 to March 2011 is 14,576 as against 10,183 during April 2009 to March 2010.

The Number of refund cases pending at the end of March 2011 is 648 as against 396 at the end of March 2010.

The Number of cases pending 3 to 6 months is 113 at the end of March 2011 as against 28 at the end of March 2010.

The Number of cases pending over 6 months is 125 at the end of March 2011 as against 175 at the end of March 2010.

The pending cases are being closely mentioned and consistent efforts are taken for early disposal of pending cases with special emphasis and clearing six months old cases and bring down the outstanding pending cases.

12. Tabulated statement showing the comparative details of refund claims dealt with in the refund offices over Southern Railway (For the Year 2009-2010 & 2010-2011)

2009-2010										2010-2011										Percentage variation as compared to previous year	
Month & Year	Opening Balance	Accrual	Re-opened	Total for disposal	Disposed off	Closing Balance	% cleared as compared to accrual	Average Time	Amount Refunded (₹)	Month & Year	Opening Balance	Accrual	Re-opened	Total for disposal	Disposed off	Closing Balance	% cleared as compared to accrual	Average Time	Amount Refunded (₹)	Accrual	Disposal
Apr'09	8319	10143	25	18487	9807	8680	97%	29	2457433	Apr'10	12960	7372	22	20354	7424	12930	101%	52	1814059	-27.3%	-24.3%
May'09	8880	10882	6	19548	9271	10277	85%	24	2353448	May'10	12930	8928	13	21871	6506	15365	73%	52	2076375	-17.8%	-29.8%
Cum		21005	31	19078	19078		91%		4810881	Cum		16300	35	13930			85%		3690434	-22.4%	-27.0%
Jun'09	10277	7054	109	17440	9828	7812	138%	33	3359312	Jun'10	15365	8920	225	24510	6707	17803	75%	47	2522545	26.5%	-30.3%
Cum		28059	140	28705	28705		102%		8169193	Cum		25220	260	20637			82%		6412979	-10.1%	-28.1%
Jul'09	7812	11910	38	19757	11308	8451	95%	33	3282736	Jul'10	17803	10561	7	28371	7977	20394	76%	59	2859866	-11.3%	-29.4%
Cum		39969	175	40012	40012		100%		11451929	Cum		35781	267	28614			80%		9272845	-10.5%	-28.5%
Aug'09	8451	5437	10	13898	6942	6956	128%	29	1974441	Aug'10	20394	9463	15	29872	7471	22401	79%	62	2611774	74.0%	7.6%
Cum		45406	185	46954	46954		103%		13426378	Cum		45244	282	36085			80%		11884619	-0.4%	-23.1%
Sep'09	6956	7337	28	14321	6702	7619	91%	39	1719411	Sep'10	22401	7155	16	29572	7815	21757	109%	61	3223488	-2.5%	16.6%
Cum		52743	213	53656	53656		102%		15145781	Cum		52399	298	43900			84%		15108107	-0.7%	-18.2%
Oct'09	7619	11270	25	18914	8411	10503	75%	54	2259898	Oct'10	21757	9094	11	30862	10796	20066	119%	59	2682589	-19.3%	28.4%
Cum		64013	238	62067	62067		97%		17405479	Cum		61493	309	54696			89%		17790596	-3.9%	-11.9%
Nov'09	10503	7644	13	18160	6722	11438	88%	28	1957683	Nov'10	20066	10619	18	30703	9980	20723	94%	56	2986153	38.9%	48.5%
Cum		71657	251	68789	68789		96%		19363162	Cum		72112	327	64676			90%		20776849	0.6%	-6.0%
Dec'09	11438	6244	0	17682	7346	10336	118%	34	1912058	Dec'10	20723	8803	15	29541	8653	20888	98%	54	2528190	41.0%	17.8%
Cum		77901	251	76135	76135		98%		21275220	Cum		80915	342	73329			91%		23305039	3.9%	-3.7%
Jan'10	10336	7593	4	17939	5888	12051	77%	40	1708408	Jan'11	20888	9178	100	30166	8931	21235	97%	55	2826845	20.8%	51.7%
Cum		85500	255	82023	82023		96%		22983626	Cum		90093	442	82260			91%		26131884	5.4%	0.3%
Feb'10	12051	8667	1	20719	5911	14808	68%	31	1688682	Feb'11	21235	10002	107	31344	9921	21423	99%	68	3980607	15.4%	67.8%
Cum		94167	256	87934	87934		93%		24672310	Cum		100095	549	92181			92%		30112491	3.3%	4.8%
Mar'10	14808	8024	150	22982	10022	12960	125%	52	3046382	Mar'11	21423	14900	-0	36333	12758	23575	86%	62	4194277	85.7%	27.3%
Cum		102191	406	97955	97955		98%		27716692	Cum		104995	559	104939			91%		34306768	12.5%	7.1%

13 Ticket Less Travel

The comparative statistics are given below :

Year	Total No. of cases of Ticketless Travel	Amount realised There from (₹)
2009-10	500755	20,10,07,053
2010-11	614829	25,28,12,209

14. Ticket Checking Details of Detection of Irregular travel

The cases of irregular travel detected, excess charges recovered and cases dealt with the Court during 2010-2011 are as under :—

	in ₹
1. No. of Passengers found travelling irregularly	6,14,829
2. No. of cases unbooked/partially booked luggage	2,34,567
3. Total Penalty earnings from (1) and (2) above	28,89,67,660
4. Gross ticket checking earnings including non-penalty earnings.	57,23,34,463
5. No. of Passengers prosecuted	62,388
6. No. of Passengers imprisoned	147
7. No. of Passengers fined	62,388
8. No. of Passengers let-off..	292
9. Amount of Judicial Fine Realised	1,40,26,604
10. No. of Mendicants ejected	26,791
11. Total cost incurred on Ticket Checking Staff	93,72,11,055

15. Road Competition

Road Operators continue to offer stiff competition to the Railway with their inherent advantages of negotiable rate, door-to-door services, quick transit, instant settlement of claims on the spot, etc. The issue of National permits and Zonal Permits for Road operators has stiffened the competitions further.

Marketing and Sales Organisation has intensified efforts to attract higher rated/high yielding traffic. Regular Meetings are held with Traders, Customers, firms, Chamber of Commerce, etc. at divisional and headquarters level.

Freight :

Southern Railway has commissioned Marketing cell in Chennai Port to liaise with Importers/Exporters and port management for capturing additional/new traffic wherever possible. Primary advantages of the scheme are that Marketing Wing of Railway act as a "Single Window" clearance open for movement by Rail. This scheme has found considerable patronage among the Importers/Exporters and Southern Railway has moved substantial quantum of Imported Commodities as detailed below :—

Sl. No.	Commodities	2010-11	
		Tonnage 000's	Earnings (₹ in Crores)
1	Imported Coal..	5,177	146.64
2	Imported Fertilizer ..	1,230	523.00
3	Imported Limestone ..	1,837	116.75
4	Imported Palmolein ..	31	24.96

2. The originating loading of high rated traffic, programmed traffic low rated traffic and other revenue traffic moved are furnished below :-

	Tonnes in Thousands		Earnings in Crores	
	2009-10	2010-11	2009-10	2010-11
a. High Rated Traffic	711	553	99.74	56.67
b. Programmed Traffic	30,695	29,807	1,278.93	1198.59
c. Low rated Traffic	1,781	2,073	112.13	132.32
d. Other Revenue Traffic	2,542	2,672	183.99	170.71

3. The originating goods loading over Southern Railway during 2010-11 was 35.065 Million Tonnes as against 35.731 Million Tonnes during 2009-10. Similarly the originating Goods Earnings during 2010-11 were 1,640.45 Crores as against 1,741.69 Crores during 2009-10.

4. Loading of High rated commodities and other goods.

There was considerable increase in loading under the following commodities in 2010 - 11 compared to 2009 - 10.

Sl.	Commodity	2009-10	2009-10	2010-11	2010-11
		Tonnes	Earnings in lakhs	Tonnes	Earnings in lakhs
1	Charcoal	120	1,219	166	1,227
2	Iron & Steel	113	2,045	238	2,929
3	Limestone	1,876	19,663	2,133	12,416
4	Gypsum	316	2791	258	2,081
5	Palm oil	..	..	208	482
6	Sugar	530	7,389	265	2,432
7	Clinker	22	74	8	35
8	Iron & Steel	109	1,955	238	2,930

5. Automobile Traffic :

As a result of continuous liaison and effective marketing contacts with Automobile Traders, Southern Railway has moved 37 rakes with total revenue of ₹ 5.65 Crores during 2010-11.

6. Parcel

The Parcel loading during 2010-11 was 5.40 lakhs of tonnes with an earnings of ₹ 122.05 Crores as against 4.69 lakhs of tonnes with earnings of ₹ 139.64 Crores during 2009-10.

Under FSLR, AGC and round trip VP leasing scheme, Southern Railway had earned ₹ 68.16 Crores during the year 2010-11.



VII. MECHANICAL ENGINEERING

ANNEXURE 'C'

Stock on Line

(a) Rolling Stock

The particulars of Rolling Stock on line owned at the end of March 2011 as compared to the previous year :—

As on 31st March 2011	Locomotives						Passenger and other Coaching Vehicles		Rail Car in units		Locomotives 4 EMU in 4 Coach units	
	Broad Gauge			Metre Gauge								
	Elec. A.C. Locos	DSL. Locos	DSL. Hyd. Locos	Elec.	Steam	DSL. Locos						
	B. G.	M. G.	B. G.	M. G.	B. G.	M. G.						
Previous year 2009-2010	306	299	69	..	10	25	5,247	191	—	—	238	..
Current year 2010-2011	333	295	66	..	10	23	5,352	97	—	—	237	..

As on 31st March 2011	Wagon in Units		Travelling Cranes					
			BROAD GAUGE			METRE GAUGE		
	B. G.	M. G.	Steam	Diesel	Hand	Steam	Diesel	Hand
Previous year 2009-2010	10,110	438	..	3	..	7	..	..
Current year 2010-2011	9,888	370	..	3	..	7	..	..

2. Additions and Renewal

Particulars	BROAD GAUGE		METRE GAUGE	
	Additions	Replacement	Additions	Replacement
LOCOS :				
Steam	..	..	..	..
Diesel	..	..	..	..
Electric	8	..	..	..
COACHES :				
Bogies	256	..	..	..
Locos	8	..	..	..
Coaches (Motor)	..	..	..	..
EMU Trailer Coaches	..	..	..	..
Transferred from other Railways	28	..	..	..
Transferred to other Railways	13	..	38	..
WAGONS :				
Bogies	50	..	..	..

a) Wagon built by wagon building firms and Railway Workshop (2010-2011)

Name of the Firm	Type	No. in Vehicle units	No. in 4-Wheelers units
Broad Gauge Stock	Nil	Nil	Nil
M/s Bharat Waite & Co. Ltd.,	BOBYN	30	—
Mritsar Work Shop/N. Rly.	BVZI	20	—
I. G. STOCK	Nil	Nil	Nil

2 Goods Stock Transferred from other Railways

Way	No. of vehicle	No. in 4-Wheeler units
	—Nil—	

3. Locomotives Online with their Tractive efforts

(a) Steam Locos

As on 31st March 2011	Broad Gauge		Metre Gauge	
	No.	Total Tractive Efforts (Kgs.)	No.	Total Tractive Efforts (Kgs.)
Previous Year 2009-2010	10	1,18,812
Current Year 2010-2011	10	1,18,812

(b) Diesel Locomotives

As on 31st March 2011	Broad Gauge		Metre Gauge	
	No.	Horse Power	No.	Horse Power
Previous Year 2009-2010	345	8,68,915	25	35,000
Current Year 2010-2011	338	89,54,560	23	32,200

4. Coaches Vehicles and seating capacity (Except EMU)

(c) Electrical Locomotives

Particulars	Broad Gauge	
	Nos.	Horse Power
As on 31st March Previous Year 2009-10:	WAM 4-31	1,12,840
	WAP1-19	72,200
	WAP 4-125	6,32,500
	WAG 7-71	3,55,000
	WAG5A/AH-60	2,31,000
Current year 2010-11	WAM 4-42	1,52,880
	WAP1-26	98,800
	WAP 4-133	6,72,980
	WAG 7-71	3,55,000
	WAG5A/HA-61	2,34,850

As on 31st March current year 2010-11	Pass. Coaches (No. in units)	Other Coaching Vehicle (No. in units)	Total Seats			
			Air condition	Ist Class	II Class	
					Berths	Seats
Broad Gauge	4896	444	44145	2042	131200	328959
Metre Gauge (including N. M. Railway)	88	9	..	290	..	4139

5. Goods Vehicles and carrying capacity

As on 31st March current year 2010-11	Public Traffic Wagons				Special wagons including Brake wagons (No. in units)	Dept. Railway Service wagons (No. in units)	Total Goods vehicles (No. in units)
	No. in units	Covered Wagons Capacity in tonnes	Open Wagons No. in units	Capacity in tonnes			
Broad Gauge	5521	294543	3212	179983.6	1153	2	9888
Metre Gauge (Incl. N. M. Railway)	324	11465.6	40	1439.7	8	7	379

6. Diesel Rail Cars

As on 31st March 2011	(A) Motor Coaches		(B) Trailer Coaches	
	No. in units	Total Seats	No. in units	Total seats
Previous year 2009-10				
Broad Gauge
Metre Gauge
Narrow Gauge
Current year 2010-11				
Broad Gauge
Metre Gauge
Narrow Gauge

Electrical Multiple Units

Particulars	Motor Coaches		Trailer Coaches	
	No. in units	Capacity in Tonnes	No. in units	Capacity in Tonnes
As on 31st March 2009-2010				
Broad Gauge	238	25466	476	46614
As on 31st March 2010-2011				
Broad Gauge	237	25359	477	46712

7. Travelling Cranes

As on 31st March 2011	Steam Cranes		Diesel Cranes		Hand Cranes	
	No. in units	Capacity in Tonnes	No. in units	Capacity in Tonnes	No. in units	Capacity in Tonnes
Broad Gauge Previous year 2009-10.	..	..	3	140T X 3	..	..
Broad Gauge Current year 2010-11.	..	..	3	140T X 3	..	..
Metre Gauge Previous year 2009-10.	7	35T X 7	..	..	..	..
Metre Gauge Current year 2010-11.	7	35T X 7	..	..	..	..

8. Rolling Stock by Age Group

(a) Locomotives (Steam)

Age Group	Broad Gauge				Metre Gauge			
	Previous Financial Year		Current Financial Year		Previous Financial Year		Current Financial Year	
	2009-2010		2010-2011		2009-2010		2010-2011	
	No.	%	No.	%	No.	%	No.	%
1 to 5
6 to 10
11 to 15
16 to 20
21 to 25
26 to 30
31 to 35
36 to 40
Over 40	10	100.00	10	100.00
Total	10	100.00	10	100.00

(b) Electric Locomotive (Broad Gauge)

Age Group Years	2009-2010		2010-2011	
	Nos.	Nos.	Nos.	Nos.
Less than 1 Year	..	8	2.61	0
1 to 5 Years	..	72	23.53	69
6 to 10 Years	..	51	16.67	52
11 to 15 Years	..	65	21.24	83
16 to 20 Years	..	48	15.69	35
21 to 25 Years	..	29	9.48	47
26 to 30 Years	..	12	3.92	9
Above 30 Years..	..	21	6.86	38
Total	..	306	100.00	333

(c) *Passenger Coaches*

Age Group Years	<i>Broad Gauge</i>				<i>Metre Gauge</i>			
	<i>Previous</i>		<i>Current</i>		<i>Previous</i>		<i>Current</i>	
	<i>Financial</i>		<i>Financial</i>		<i>Financial</i>		<i>Financial</i>	
	Year		Year		Year		Year	
1 to 5	1289	26.87	1150	23.48	..	..	..	..
6 to 10	1137	23.71	1155	23.60	7	4.86	5	8.33
11 to 15	1202	25.05	1333	27.23	..	..	..	..
16 to 20	735	15.32	760	15.53	118	81.95	..	..
21 to 25	415	8.65	467	9.53	18	12.5	19	31.67
26 to 30	18	0.38	30	0.61	1	0.69	35	59.34
31 to 35	..	..	..	..	..	..	1	1.66
Over 35	1	0.02	1	0.02	..	..	..	..
Total	4797	100.00	4895	100.00	144	100.00	60	100.00

(i) *Motor Coaches (a) Broad Gauge*

Age Group Years wise	2009-2010		2010-2011	
	Nos.	Percentage	Nos.	Percentage
Broad Gauge				
1 to 5 Years	13	5.46	68	28.69
6 to 10 Years	81	34.03	85	35.36
11 to 15 Years	65	27.31	41	17.30
16 to 20 Years	39	16.39	26	10.97
21 to 25 Years	22	9.25	3	1.27
26 to 30 Years	3	1.26	6	2.53
Above 30 Years	15	6.30	8	3.36
Total	238	100.00	237	100.00

(ii) Trailer Coaches

Age Group Years	2009-2010		2010-2011	
	Nos.	Percentage	Nos.	Percentage
1 to 5 Years	31	6.52	136	28.51
6 to 10 Years	158	33.19	159	33.33
11 to 15 Years	137	28.78	102	21.38
16 to 20 Years	99	20.80	45	9.44
21 to 25 Years	32	6.72	18	3.77
26 to 30 Years	3	0.63	2	0.92
Above 30 Years	16	3.36	15	3.15
Total	476	100.00	477	100.00

(d) Wagons

General Services

		<u>Broad Gauge</u>				<u>Metre Gauge</u>			
		<i>Previous</i>		<i>Current</i>		<i>Previous</i>		<i>Current</i>	
<i>Age Group</i>	<i>Financial</i>	<i>Financial</i>		<i>Financial</i>		<i>Financial</i>		<i>Financial</i>	
<i>Year</i>	<i>Year</i>	<i>Year</i>		<i>Year</i>		<i>Year</i>		<i>Year</i>	
	<i>2009-2010</i>	<i>2010-2011</i>		<i>2009-2010</i>		<i>2010-2011</i>			
	<i>No.</i>	<i>%</i>	<i>No.</i>	<i>%</i>	<i>No.</i>	<i>%</i>	<i>No.</i>	<i>%</i>	
1 to 5	318	3.90	318	3.92	..	..	..	..
6 to 10	97	1.18	11	0.13	..	..	..	..
11 to 15	4728	57.97	4812	59.36	..	..	..	..
16 to 20	1828	22.40	727	8.97	181	56.39	12	4.25	
21 to 25	1074	13.17	1937	24.64	33	10.28	180	63.63	
26 to 30	67	0.83	205	2.53	25	7.78	19	6.74	
31 to 35	8	0.09	5	0.06	82	25.55	71	28.18	
36 to 40	22	0.26	18	0.22	..	..	..	..
Over 40	16	0.20	14	0.17	..	..	..	..
Total	8158	100.00	8107	100.00	321	100.00	282	100.00	

9. Overaged Rolling Stock on line

(a) Overaged Steam Locomotives on line as on 31st March 2011 (Current Year) Steam

BROAD GAUGE											METRE GAUGE									
Stock condemned in current financial year 2010-2011											Stock condemned in previous financial year 2009-2010									
Type of Stock	Total Stock			Stock Overaged				Non-Re-placed			Total Stock			Stock overaged				Non-Re-placed		
	Non-Re-placed	Re-placed	Total	Non-Re-placed	Re-placed	Total	Percentage of overaged to total	Non-Re-placed	Re-placed	Total	Non-Re-placed	Re-placed	Total	Non-Re-placed	Re-placed	Total	Percentage of overaged to total	Non-Re-placed	Re-placed	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Passenger	4	6	10	4	6	10	..	..	..	..
Mixed Goods
Light Goods and Miscellaneous.
Total	4	6	10	4	6	10	..	..	..	..

(b) (i) Over aged BG & MG Electric Locos on line as on 31st March 2011 — Nil

(ii) Number of locomotives put off and new locomotives put on line during the year (Current Financial Year) 2010-2011.

Particulars	BROAD GAUGE			METRE GAUGE		
	Steam	Diesel	Electric (A/C.)	Steam	Diesel	Electric (A/C.)
1. No. of locomotives taken off the line	..	3	2	..	2	..
2. No. of locomotives placed on line	8	..	..	..
3. No. of locomotives permanently transferred from other Railway.	22	..	..	..
4. No. of locomotives permanently transferred to other Railway.	2	..	..	..

(c) Overaged Coaching Stock on line as on 31st March 2011 —Broad Gauge — Coaches

Sl. No.	Particulars	Total stock owned			Stock Over Aged			Percentage of overaged to total Stock on live	Stock condemned during the current financial year		
		Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total		Non-Replaced	Replaced	Total
BROAD GAUGE—COACHES											
1.	Air-conditioned class	776	..	776	3	..	3	0.05	7	..	7
2.	Upper Class (First)	36	..	36	..	..	..	0.00	..	..	..
3.	Composite Class	..	..	..	..	..	..	0.00	..	..	..
4.	Lower Class (Second).	4,084	..	4,084	28	..	28	0.52	78	..	78
5.	Tourist Car Inspection. Carriage and Dining Cars.	115	..	115	1	..	1	0.01	5	..	5
6.	All other coaching Vehicles excluding these under item 5.&PPS.	329	..	329	51	..	51	0.95	20	..	20
Total		5,340	..	5,340	83	..	83	1.53	110	..	110

Trailer Coaches DMU, DTC & TC Coaches				
Diesel Power Coaches	0	0	0	
Trailer Coaches TC	54	0	54	
Diesel Trailer Coaches DTC	6	0	6	
Total	..	60	0	60

Particulars	Total stock owned			Stock Over Aged			Percentage of overaged to total stock on line	Stock condemned during the current financial year 2008-2009		
	Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total		Non-Replaced	Replaced	Total
METRE GAUGE—COACHES										
1. Air-conditioned Class.	..	..	..	..	..	..	0.00	..	..	..
2. Upper Class (First)	4	..	4	..	..	..	0.00	..	..	..
3. Composite Class	..	..	..	..	..	..	0.00	..	..	..
4. Lower Class (Second)	56	..	56	1	..	1	1.51	25	..	25
5. Tourist Car Inspection Carriage and Dining Cars.	3	..	3	2	..	2	3.03	1	..	1
6. All other coaching Vehicles excluding those under item. 5 & PPS	3	..	3	1	..	1	1.51	9	..	9
Total	..	66	66	4	..	4	6.05	35	..	35

DIESEL RAIL CARS				
Driving Trailers YRD	..	..	..
Trailers YRD	..	..	..
Total	..	..	..

RAIL BUS			
YRB	1	0	1

(d) Overaged wagon stock on line as on 31st March 2011 (Broad Gauge wagons)

Type of Wagons	Stock on Line			Stock Overaged			Percentage of overaged to total stock on line	Stock condemned during the current financial year 2010-11		
	Non- Replaced	Replaced	Total	Non- Replaced	Replaced	Total		Non- Replaced	Replaced	Total
BROAD GAUGE—WAGONS										
1. Covered	4,900	..	4,900	25	..	25	0.25	12	..	12
2. Open	3212	0	3212	12	0	12	0.12	40	0	40
3. Brake-Vans	274	0	274	19	0	19	0.19	2	0	2
4. Tank Wagons	621	0	621	75	0	75	0.75	199	0	199
5. Special Stock	879	0	879	38	0	38	0.38	19	0	19
6. Railway Service Wagons.	2	0	2	0	0	0	0.00	0	0	0
Total ..	9888	0	9888	169	0	169	1.69	272	0	272
METRE GAUGE—WAGONS										
1. Covered	246	0	246	60	0	60	16.20	36	0	36
2. Open	36	0	36	22	0	22	5.94	5	0	5
3. Brake-vans	8	0	8	0	0	0	0.00	0	0	0
4. Tank Wagons	73	0	73	17	0	17	4.59	22	0	22
5. Special Stock	0	0	0	0	0	0	0.00	1	0	1
6. Railway Service Wagons.	7	0	7	7	0	7	1.89	4	0	4
Total ..	370	0	370	106	0	106	28.62	68	0	68

Particulars	BROAD GAUGE		METRE GAUGE	
	Coaches	Wagons	Coaches	Wagons
Number put off the line during the year 2010-2011.	233	272	94	68
Number put on line during the year 2010-2011.	338	50	0	0

* Including Transfer, Conversion and Sales.

10 (a) Locomotives under or Awaiting Repairs

Details	Year	Average No. on line		Average under Repairs		In Mechanical Workshops		Stabled in Sheds awaiting workshop repairs		In Shed and Transportation Workshops		In Transit	
		No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Previous Financial Year	2009-2010	BROAD GAUGE											
Diesel Electric	..	288.96	18.83	6.52	4.62	1.60	..	..	14.21	4.92	..	..	..
Diesel Hydraulic	..	42.33	3.58	8.46	1.12	2.65	-	-	2.46	5.81	..	..	..
Electric	..	298.22	23.76	7.97	8.89	2.98	-	-	14.87	4.99	..	..	..
Total	..	629.51	46.17	7.33	14.63	2.32	-	-	31.54	5.01	..	..	..
Previous Financial Year	2009-2010	METRE GAUGE											
Steam	..	8.00	3.01	37.63	1.52	19.00	-	-	1.49	18.63	..	..	..
Diesel Electric	..	22.00	0.00	0.00	0.00	0.00	-	-	0.00	0.00	..	..	..
Diesel Hydraulic
Electric
Total	..	30.00	3.01	10.03	1.52	5.07	-	-	1.49	4.97	..	..	..
Current Financial Year	2010-2011	BROAD GAUGE											
Diesel Electric	..	295.54	22.53	7.62	6.27	2.12	-	-	16.26	5.50	..	..	..
Diesel Hydraulic	..	36.08	3.12	8.65	1.47	4.07	-	-	1.65	4.57	..	..	..
Electric	..	320.04	23.09	7.47	6.46	2.02	-	-	17.44	5.45	..	..	..
Total	..	651.66	49.55	7.60	14.20	2.18	-	-	35.35	5.42	..	..	..
Current Financial Year	2010-2011	METRE GAUGE											
Steam	..	8.08	2.42	29.95	1.54	19.06	-	-	0.88	10.89	..	..	..
Diesel Electric	..	18.33	0.00	0.00	0	0.00	-	-	0	0.00	..	..	..
Diesel Hydraulic
Electric
Total	..	26.41	2.42	9.16	1.54	5.83	-	-	0.88	3.33	..	..	..

(b) Coaching stock under or Awaiting Repairs

Type	Year		Average	Average under		In Mechanical		In sick lines and		Stabled Awaiting		In Transit	
			No. on line (in Units Vehicle)	Repairs	No.	Percentage	Workshops	Percentage	Transportation	Percentage	Workshop Repairs	Percentage	No.	Percentage
<u>BROAD GAUGE</u>													
<i>Passenger Coaching Vehicles—</i>													
2009–2010	4690	346.23	7.38	217.08	4.63	28.46	0.61	34.38	0.73	66.31	1.41
2010–2011	4874	362.79	7.44	217.02	4.45	53.11	1.09	36.74	0.75	55.91	1.15
<i>Other Coaching Vehicles—</i>													
2009–2010	257	23.23	9.04	12.64	4.92	0.84	0.33	6.11	2.38	3.64	1.42
2010–2011	286	23.26	8.13	13.17	4.60	1.61	0.56	5.79	2.02	2.69	0.04
<i>All Coaching Vehicles—</i>													
2009–2010	4,947	369.46	7.47	229.72	4.64	29.30	0.59	40.49	0.82	69.65	1.41
2010–2011	5,160	386.05	7.48	230.19	4.46	54.72	1.06	42.53	0.82	58.60	1.14

Type	Year		Average No. on line (in Units Vehicle)	Average under Repairs		In Mechanical Workshops		In sick lines and Transportation		Stabled Awaiting Workshop Repairs		In Transit	
				No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage

METRE GAUGE

<i>Passenger Coaching Vehicles—</i>													
2009–2010	..	..	263	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2010–2011	..	..	84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<i>Other Coaching Vehicles—</i>													
2009–2010	..	..	2	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
2010–2011	..	..	1	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
<i>All Coaching Vehicles—</i>													
2009–2010	..	..	265	0.00	0.00	0.00	0.00	0	0.00	0	0.00	0.00	0.00
2010–2011	..	..	85	0.00	0.00	0.00	0.00	0	0.00	0	0.00	0.00	0.00

(c) Wagons under or awaiting Repairs

Year	Average No. on line (8 Wh.)	Average under Repairs		In Mechanical Workshops		In sick line and Transportation		Stabled awaiting workshop repairs	
		No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage
<u>BROAD GAUGE</u>									
2009–2010	8,148	548.17	6.73	104	1.28	172	2.11	272.17	3.34
2010–2011	8,200	503.00	6.13	95	1.16	211	2.57	197.58	2.41
<u>METRE GAUGE</u>									
2009–2010	93.00	0	0.00	0	0.00	0	0.00	0	0.00
2010–2011	93.00	0	0.00	0	0.00	0	0.00	0	0.00

11. Rolling Stock Turned out after repairs from workshops**(a) Locomotives — (Steam Loco)—Metre Gauge**

Details	Heavy repairs Periodical overhaul	IOH	Special repairs	Total	Equivalent Std. I Class Unit repairs	Average number of days taken for POH	
						Calender days	Working days excluding Sundays and Shop Holidays
Previous Financial Year 2009-2010	1	..	..	1	2.00	525	342
Current Financial Year 2010-2011	1	..	..	1	2.00	595	474

The kilometres between periodical overhaul of loco No. 37392

Previous Financial Year 2009-2010 29632 Kms.

Current Financial Year 2010-2011 .. 13062 Kms.

(@) One X class Steam Loco No. 37,386 attended at GOC for POH cum-conversion into oil firing system and rake pinion system.

(b) Over aged coaching and wagon stock on line as on 31st March 2011**I. Under or awaiting repairs**

Particulars in a Locos	Average on line		Average under repairs		In Mech. W. Shop Car W. Shop		Stabled in the awaiting W. Shop		Installed and transportation W. Shop		Locos in Transit	
	Nos.	%	Nos.	%	Nos.	%	Nos.	%	Nos.	%	Nos.	%
2009-2010	298.22	100	23.76	7.97	..	..	..	..	23.76	7.97	..	..
2010-2011	320.04	100	23.90	7.47	..	..	..	..	23.90	7.47	..	..

(b) Coaches stock under or awaiting Repairs—EMU Broad Gauge

2009-2010	232.25	100	15.67	6.75	..	..	..	..	15.67	6.75	..	..
2010-2011	237.50	100	16.74	7.05	..	..	..	..	16.74	7.05	..	..

EMU Metre Gauge—Nil**11.1. Rolling Stock Turned out after repairs from workshops (b) Coaches in VUs.**

Shop	Activity	Previous Financial Year 2009-2010				Current Financial Year 2010-11			
		Periodical Over hauling	Off Schedule		Total	Periodical Over hauling	Off Schedule		Total
			Over Rs. 100	Below Rs. 100			Over Rs. 100	Below Rs. 100	
BROAD GAUGE									
Perambur Carriage Works —									
Passenger Coaches	PCVs	1984	25.4	3.5	2012.9	2055	92	0	2147
Other Coaching	OCVs	181	1.1	3.0	185.1	202	1.2	0	203.2
	Total	2165	26.5	6.5	2198	2257	93.2	0	2350.2
Perambur Loco Works—									
Passenger Coaches	PCVs	533	0	0	533	522	18.4	0	540.4
Other Coaches	OCVs	0	0	0	0	0	0	0	540.0
	Total	533	0	0	533	522	18.4	0	540.4
	DTC/TCs of DEMU	69	0	0	69	70	0	0	70
Golden Rock Workshops —									
Passenger Coaches	PCVs	920	0	4.5	924.5	842	29.2	0	871.2
Other Coaches	OCVs	45	0.6	0.5	46.1	50	0	0	50
	Total	965	0.6	5.0	970.6	892	0	0	921.2

11.1. Rolling Stock Turned out after repairs from workshops (b) Coaches in VUs.

Shop	Activity	Previous Financial Year 2009-2010				Current Financial Year 2009-2010			
		Periodical Over hauling	Off Schedule		Total	Periodical Over hauling	Off Schedule		Total
			Over Rs. 100	Below Rs. 100			Over Rs. 100	Below Rs. 100	
METRE GAUGE									
Gold Rock Workshop									
Passenger Coaches	PCVs	38	0	0	38	31	0	0	31
Other Coaching Vehicles	OCVs	0	0	0	0	0	0	0	0
	Total	38	0	0	38	31	0	0	31

11.2. Rolling Stock Turned out after Repairs from Workshops (c) Wagons in VUs.

Shop	2009-2010			2010-2011		
	Periodical Overhaul	Off. Schedule	Total	Periodical Overhaul	Off. Schedule	Total
BROAD GAUGE						
Perambur Carriage Works ..	3,274	0	3,274.0	3,036	0	3,036
Golden Rock Shops ..	0	0	0	0	0	0
Total ..	3,274	0	3,274	3,036	0	3,036
METRE GAUGE						
Golden Rock Shops ..	0	0	0.0	..	..	0

(d) Average number of calendar days taken for repairs in shops (for periodical overhaul) per vehicle for the last two years were as under : —

Particulars	Broad Gauge		Metre Gauge	
	Previous Financial Year	Current Financial Year	Previous Financial Year	Current Financial Year
	2009-2010	2010-2011	2009-2010	2010-2011
Passenger Coaches—				
Perambur Carriage Works ..	13.2	13.1	..	..
Perambur Loco Works ..	5.62	9.38	..	..
Golden Rock ..	20.4	17.1	17.8	16.8
Other Coaching Vehicles—				
Perambur Carriage Works ..	21.1	8.8	..	..
Perambur Loco Works ..	..	..	..	..
Golden Rock ..	14.0	21.1	..	..
Wagons—				
Perambur Carriage Works ..	7.8	4.6	..	..
Perambur Loco Works ..	..	..	..	..
Golden Rock ..	..	..	..	..

(e) POH Unit Cost of Repairs (Rs. in Thousands)

Particulars	Broad Gauge		Metre Gauge	
	Previous Financial Year	Current Financial Year	Previous Financial Year	Current Financial Year
	2009-2010 (Actuals)	2010-2011 (F. M.)	2009-2010 (Actuals)	2010-2011 (F. M.)
(ii) Average cost of repairs per passenger carriage (in FWU's)— PCVs-POH				
Carriage Works/Perambur	643	574	No Activity	
Loco Works/Perambur	490	620		
Golden Rock	295	263	220	197
Driving Trailer coach of DEMU – POH LW/PER	1104	597		
Trailer coach of DEMU – POH LW/PER	560	575	No Activity	
(iii) Average cost of repairs per other coaching vehicles (in FWU's)— OCVs-POH				
Carriage Works/Perambur	477	415	No Activity	
Loco Works/Perambur	..	..
Golden Rock Workshops	226	189	135	135
(iv) Average cost of repairs per wagon (FWU's)— Wagons-POH				
Carriage Works/Perambur	266	177	No Activity	
Golden Rock Workshops	..	..	..	..

Rolling Stock Planned out after repairs (In lakhs of rupees)

Particulars	Broad Gauge		Metre Gauge	
	Previous Financial Year	Current Financial Year	Previous Financial Year	Current Financial Year
	2009-2010 (Actuals)	2010-2011 (F. M.)	2009-2010 (Actuals)	2010-2011 (F. M.)
Locomotives				
(i) Unit repair cost (per loco)				
Driving power car of DEMU	3638	2807	No Activity	
LW/PER				
Dsl. Hyd. LW/PER	2679	2888		
AC Electric LW/PER	8678	7863		
Dsl. Elec. GOC	8512	8550	6250	6275

Particulars	2009-2010		2010-11	
	Years		Years	
	2009-2010	2010-11	2009-2010	2010-11
(i) Average cost of maintenance and repairs per locomotive (Electrical)				
Broad Gauge	..	21.13	..	19.67
Metre Gauge
(ii) Average cost of maintenance and repairs of EMU coach unit				
Broad Gauge	..	24.53	..	24.07
Metre Gauge

12. Locomotives Coaches and Wagons overdue Repairs

Rolling Stock	BROAD GAUGE				METRE GAUGE			
	Previous Financial		Current Financial		Current Financial		Current Financial	
	Year as on 31st		Year as on 31st		Year as on 31st		Year as on 31st	
	March 2010		March 2011		March 2010		March 2011	
	No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage
(i) Locomotives—								
(a) Steam	Nil	Nil	Nil	Nil	2	25	1	11.1
(b) Diesel Electric ..	1	0	3	1.05	0	0	0	0
(c) Diesel Hydraulic ..	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
(ii) Coaches—								
(In VU's)	6	0.11	10	0.19	0	0	0	0

13. Engine Failures (Diesel Locos)

(Kms. in thousands)

15. Engine Failures (Diesel Locomotives)								
Year	Total No. of engine failures	Average Kms. per engine failures	Failure under various services			Engine kms. per engine failure (various services)		
			Passenger	Mixed	Goods	Passenger	Mixed	Goods
<u>BROAD GAUGE</u>								
Diesel Electric Locos—								
Previous Financial Year 2009–2010	64	562610	58	-	6	431572	@@	1829303*
Current Financial Year 2010–2011	110	335300	104	-	6	252474	@@	1770949*
Diesel Hydraulic Locos—								
Previous Financial Year 2009–2010	..	24083*	..	..	..	@@	@@	24083*
Current Financial Year 2010–2011	..	4263*	..	..	..	@@	@@	4263*
<u>METRE GAUGE</u>								
Diesel Electric Locos—								
Previous Financial Year 2009–2010	..	642379*	..	..	..	635506*	@@	6873*
Current Financial Year 2010–2011	..	509516*	..	..	..	509246*	@@	270*
Diesel Hydraulic Locos—								
Previous Financial Year 2009–2010	..	..	..	..	..	..	..	..
Current Financial year 2010–2011	..	.....	..	..	..	..	..	..

Note.—* Denotes total engine Kms. without failure.

@@ There are no services.

Engine Failures (Electrical) 2009-2010 and 2010-2011

(Kms. in thousands)

Year	Total No. of engine failure	Average Kms. per engine failure	Failure under various services			Engine kms./per engine failure various services		
			Passenger	Mixed	Goods	Passenger	Mixed	Goods
<u>BROAD GAUGE</u>								
2009-2010	51	11.15	46	..	5	8.36	..	36.83
2010-2011	46	13.31	36	..	10	11.67	..	19.22

Energy and Amount particulars of traction and Non-traction

Sl. No.	Description	Year	
		2009-10	2010-11
1	Traction consumption in million units	904.357	911.750
2	Non-traction consumption in million units	125.387	123.856
3	Total in million units	1029.744	1035.606
4	Traction amount paid ₹ in crores	405.165	435.467
5	Non-traction amount paid ₹ in crores	61.639	66.58
6	Total ₹ in crores	466.804	502.05
7	Traction Average rate ₹./kwh	4.48	4.78
8	Non-traction average rate ₹./kwh	4.92	5.38
9	Total	4.70	4.84

Engine Failures (Steam) 2009-10 and 2010-11

Year	Total No. of engine failures	Average Kms. per engine failure	Engine Failures under various services			Engine Kms. per engine failure various services		
			Passenger	Mixed	Goods	Passenger	Mixed	Goods
2009-2010	8	1,528	8	..	..	1,528	..	..
2010-2011	22	849	22	..	..	849	..	..

Engine Failures (Diesel Locos)

Total No. statistical Engine Failures	..	B. G.	111	M. G.	0
Average Kms. per Engine Failures (in Lakhs)	..	B. G.	3.88	M. G.	0

14. Hot Boxes

Year	Total No. of Hot Boxes	Responsibility			Percentage variation over previous year	No. per One million wagon Kms. and Ten Million Vehicle Kms.
		Southern Railway	Other Railway	Un fixed		

(i) Coaches—

BROAD GAUGE						
Previous Financial Year 2009-2010	2	2	..	..	(+) 67	0.02
Current Financial Year 2010-2011	6	4	2	..	(+) 300	0.20

METRE GAUGE						
Previous Financial Year 2009-2010	..	..	..	..	..	..
Current Financial Year 2010-2011	..	..	..	..	..	..

(ii) Goods—

BROAD GAUGE						
Previous Financial Year 2009-2010	27	7	20	..	(-) 68.75	0.39
Current Financial Year 2010-2011	24	8	16	..	(-) 18.88	0.45

METRE GAUGE						
Previous Financial Year 2009-2010	..	..	..	..	..	..
Current Financial Year 2010-2011	..	..	..	..	..	..

Note.— (+) Denotes increase in the figures.

(-) Denotes decrease in the figures.

Shedwise yearly outage—2010-2011 B. G. (Mechanical)—Goods

Month	TARGET					ACTUAL				
	ED	GOC	ERS	TNP	TOTAL	ED	GOC	ERS	TNP	Total
April ..	41.7	27.6	11.1	8.8	89.2	48.5	33.2	11.6	8.6	101.9
May ..	41.7	24.0	11.1	6.1	82.9	46.8	28.1	11.8	6.2	92.91
June ..	42.6	27.6	12.9	6.1	89.2	46.2	31.9	12.9	6.3	97.3
July ..	40.8	27.6	11.1	6.1	85.6	44.6	31.9	13.2	7.0	96.7
August ..	40.8	29.4	12.0	5.2	87.4	44.4	33.8	13.2	5.1	96.5
September ..	40.9	29.4	12.0	1.5	83.8	46.0	34.1	12.0	0.3	92.40
October ..	40.9	28.6	11.2	0.0	80.7	44.6	32	11.4	-0.3	87.70
November ..	39.3	30.4	12.8	0.0	82.5	41.8	34.0	13.9	0.0	89.7
December ..	37.7	25.4	12.8	0.0	75.9	42.1	32.2	13.9	0.2	88.4
January ..	37.8	25.4	12.1	0.0	75.3	42.1	31.6	13.2	-0.2	86.7
February ..	36.1	24.6	9.3	0.0	70.00	42.9	31.6	12.2	-0.9	85.8
March ..	36.1	25.5	11.1	0.0	72.7	39.6	32.3	11.6	-0.2	83.3
Total ..	476.4	325.5	139.5	33.8	975.2	529.6	386.7	150.9	32.1	1099.3
Average ..	39.7	27.1	11.6	2.8	81.3	44.1	32.2	12.6	2.7	91.6



VIII. ELECTRICAL ENGINEERING

1. Electrical Energy Generation, Purchase, Sales and Consumption.

The following are the figures pertaining to the years 2009-10 and 2010-11 and kWh in Millions :—

Sources of Power.	Generated (sent out from bus bars)	Purchase		Total	
		2009-10	2010-11	2009-10	2010-11
Energy Purchase from State Electricity Board in million Unit					
(a) General Service					
(i) Tamil Nadu ..	105.683	103.584	..	..	..
(ii) Andhra Pradesh ..	0.672	0.674	..	..	..
(iii) Karnataka ..	1.799	1.480	125.387	123.856	..
(iv) Kerala ..	17.233	18.118	..	..	..
(b) Traction Services					
(i) Tamil Nadu ..	659.184	678.391	..	..	..
(ii) Andhra Pradesh ..	80.415	76.966	..	..	..
(iii) Karnataka ..	..	..	904.357	911.750	..
(iv) Kerala ..	164.758	156.393	..	..	..
Total	..	..	1029.744	1035.606	..

2. Unit Cost of Generation and Purchases

a. For Generated Energy : There is no generating stations on this Railway.

b. Purchase of Energy Particulars

		Units	2009-10	2010-11
(i) Energy Purchase	In Million kWh	1029.764	1035.606	
(ii) Total Cost	(Rs. in Crores)	466.804	502.050	
(iii) Average rate per kWh		4.53	4.85	

3. Analysis of total electrical energy consumed for various services in terms of percentage of the total energy purchase 2010-11 (2009-2010).

Percentage

a. Major workshops (15.862 Million Units)	1.53
b. Non-rent returning buildings (This includes Division Offices, Hospitals, Stations, Yards, Loco sheds, Carriage Maintenance Depots, Stores Depots, RPF out posts etc., for which.	
(i) Water Supply Installations (11,458 mu) ..	1.10
(ii) Service Buildings (53.733 mu) ..	5.19
(iii) Yard lighting (4.111 mu) ..	0.40
(iv) Hospitals (5.880 mu) ..	0.57
c. Staff quarters and staff welfare buildings, (32.812 mu).	3.17
d. Traction Services (911.750 Million Units)	88.04

4. Generating and Purchasing Stations as on 31st March 2011.

Generating Stations : There are no generating stations on this Railway, However, Diesel generating sets of capacities varying from 10kVA to 320kVA are provided at important installations as standby source of supply during interruption of supply from the State Electricity Board sources. Following are the particulars :—

Particulars	No. of DG sets	Cap. in kVA	Purchasing Stations of Supply Points	
			HT	LT
As on 31st March 2009	219	17,268	75	2,854
As on 31st March 2010	219	17,268	80	29.17

5. Electrical Traction Distribution (2010-11)

Particulars	Upto 31st March 2010	Upto 31st March 2011
	BG	BG
1. Total Route km Electrified	1,880	1,890
2. Total Track km Electrified	4143*	4321

* (TBM-VM-MG line released for GC)

6. A. C. Electric Locomotives

Particulars		Broad Gauge (average for the year)	
		2008-09	2009-10
(i) Total No. of Engine on line	..	298.22	320.04
(ii) No. of Engine in use (average per day).	..	..	..
a. Goods Service ..	..	110.55	113.80
b. Passenger Service ..	..	155.69	173.68
c. Shunting ..	..	..	..
d. Departmental ..	..	..	..
e. Banking ..	..	..	..
f. Spare ..	..	0.31	0.82
Total average per day	..	266.55	288.30
(iii) Engine km/day/Engine in line (all services).	..	586	584
(iv) Engine km/Day/Engine in use (all services).I	..	574	606
(v) Total No. of failure	..	..	..
a. Passenger Service ..	..	46	36
b. Goods Service ..	..	5	10
(vi) Engine km/Engine failure	..	..	..
a. Passenger Service ..	..	836211	1166719
b. Goods Service ..	..	3683358	1921967
(vii) Total km (Passenger and goods service).	..	56882497	61221537

7. Suburban Electric Multiple Unit Stock—Broad Gauge

Holding as on 31st March 2011		2009-10	2010-11
a. In terms of 4 Units (4 Coaches WAU-1 type)	238	237	
b. In terms of Coaches (Motor Coaches and trailer Coaches).	476	477	
c. Break up of Coaches :—No. of Coaches			
Motor Coaches ICF Coaches	238		
(i) Kms. run in terms of single units	30460350	31364857	
(ii) Total No. of Failure ..	6	7	
(iii) Kms/Motor Coaches failure ..	5076725	4480694	

8. Electrical General Services Particulars

	2009-10	2010-11
(i) Generating, Converting and transforming Nos. Plants.	341	333
Transformer capacity in kVA	155771	152656
(ii) Total connected loads of installations purchasing power from outside sources in kw. (in thousands)	158318	160373
(iii) Electrification of stations including block huts	727	728
(iv) Total No. of Motors (other than pump motors in service in major workshops, TL depots, divisional electrical repair shops, Printing Press, etc.,)	..	..
Nos.	6763	5818
Capacity	33954	30847
(v) Electrical driven pump	..	..
Nos.	1669	1663
Capacity	16018	9991
(vi) Electrified Quarters	..	..
Nos.	28773	28773
Lights	147152	159547
Fans	84802	89354
Plugs	70997	80623

		2009-10	2010-11
(vii) Service Buildings			
Lights		115299	123621
Fans		31878	39001
Plugs		35589	35589
(viii) Ac plants and refrigeration's equipments			
AC Plants	Nos.	2295	2402
Capacity	Tons	5281	5427
Refrigerators	Nos.	205	955
Capacity	Ltrs.	62765	157575
(ix) Water coolers	Nos.	764	771
Capacity	Ltrs.	103440	104387
(x) Air Compressors	Nos.	81	87
Capacity of Motors in	HP	2666	2351
(xi) Welding sets	Nos.	723	726
Capacity in	Amps	135375	113010
(xii) Battery Chargers	Nos.	1305	873
Capacity in	Amps	96134	70950
(xiii) Other installations, Miscellaneous viz., Geysers, Water distilling plants, etc., Nos.		480	603
(xiv) Flood light towers in yards—			
No. of Towers		327	327
No. of Projectors Wattage k W		1425	1297
		703	1970
(xv) Length of Transmission line (Other than Traction) km.			
HT	OH	66.43	50.7
	UG	176.476	181.32
LT	OH	1208.25	1120.94
	UG	808.091	836.33
(xvi) Power line Crossings	Nos.	3024	2843

8.A. Train Lighting and Air-conditioning

(a) *Train lighting*— The Train Lighting and air-conditioning services in coaches were maintained satisfactorily. The population of B.G. Train Lighting coaches as on 31st March 2011 are furnished as follows.

Self Generation AC Coaches Population—

Sl. No.	Type of coaches	Population
1	FAC	9
2	FACCW	50
3	ACCW	205
4	CZAC	31
5	ACCNJ	389
6	SWGAC	3
7	SWGACCN	5
Total		693

(b) Shatabdi/ Jan Shatabdi Exp.Coaches—

1	FCZACEN	2
2	CZACEN	12
3	WLRRM	5
4	CZ ACJ	9
5	ACCNJ	30
6	CZACH	4
7	WLRRMDAC	6
8	LCZAC	9
9	LFCZAC	2
10	SWGAC	3
Total		82

Introduction of New trains for the period from 31st March 2010 to 31st March 2011

Sl. No.	Train No.	From	To	Type of AC Coach	Frequency	Date of Introduction
1	12243/24	MAS	CBEC	CZAC-7, CZFAC-1E	Exp. Tues	26-1-11
2	12762/12761	MDU	TPTY	ACCW-1, ACCN-1	Thu, Sat	..
3	12757/58	CBE	TPTY	CZAC-1	Tu, Fri, Sun	25-1-11
4	12544/43	TPTY	YRR	CZAC-1	Sun, Tues, Fri	25-1-11
5	12755/56	MAS	Haldia	ACCW-1	Thu	..
6	12753/12754	MAS	NJP	ACCW-1, ACCN-1	Sat	..
7	12081/82	CLT	TVC	CZACJ-1	Ex. Wed, Sat	..

Sl. No.	Train No.	From	To	Date of Introduction	Type of AC/TL coaches	Frequency	Total No. of coaches
1	16865/66	NCR	ERS	16-10-10	WFC-1	Daily	17
2	16865/66	MS	RMM	18-7-09	18 Coaches FACCW-1No.	Daily	18
3	16175/76	MS	NCR	26-11-10	FACCW-1	Daily	17
4	16359/60	ERS	PNBE	25-12-10	ACCN-1	Weekly	21
5	16651/52	MDU	NZM	24-1-11	GSCN-1	Bi-Weekly	23
6	12793/94	MS	MDU	03-2-11	ACCN-1	Bi-Weekly	17
7	12647/48	CBE	NZM	23-1-11	GSCN-1	Weekly	21
8	12681/82	CBE	MAS	28-1-11	GSCN-1	Weekly	19
9	12675/76	MAS	CBE	10-1-11	GSCN-1	Daily	21
10	16687/88	MAQ	JAT	24-1-11	GSCN-1	Weekly	21
11	16733/34	RMM	OKHA	28-1-11	ACCN-1	Weekly	19
12	12669/70	MAS	CHAPRA	29-1-11	ACCN-1	Bi-Weekly	23
13	12691/92	MAS	SSPN	4-2-11	ACCN-1	Weekly	23
14	12659/60	NCJ	SHM	30-1-11	GSCN-1	Weekly	23
15	12659/60	SBC	ERS	28-1-11	GSCZ-1	Daily	18
16	12680/79	CBE	MAS	8-3-11	WGS-6	Daily	23
17	12693/94	MS	TN	12-3-11	ACCN-1, GSCN-1	Daily	23
18	16736/35	TCN	MS	10-3-11	GSCN-2	Weekly	17
19	12788/87	TEN	BSP	13-3-11	GSCN-2	Weekly	17
20	16723/24	MS	TVC	10-3-11	GSCN-1	Daily	19
21	16714/13	RMM	MS	14-3-11	ACCN-1, GSCN-1	Daily	22
22	12661/62	MS	SCT	15-3-11	ACCN-1, GSCN-1	Daily	22
23	12675/76	CBE	MAS	7-3-11	GSCZ-1	Daily	24
24	12680/79	CBE	MAS	8-3-11	GSCZ-2	Daily	23
25	16669/70	ED	MAS	7-3-11	GSCN-1	Daily	23
26	12675/76	MAS	CBE	21-2-11	GSCZ-2	Daily	23

Introduction of Incentive Scheme

Progress of introduction of Incentive Scheme :—

Sl. No.	Position as on 31st March 2010	Name of Workshops	
		Perambur	Ponmalai
1	Total strength to be brought under incentive.	1127	340
2	Total No. of men put on incentive in any month during the year.	850	312
3	Balance yet to be covered	277	28
4	Probable date by which the remaining men are to be covered.	The non-incentive men are utilized in non-repeated nature of work and the percentage is more. As on men necessity arises this men will be covered.	Actual staff is lesser than the sanctioned incentive man power. The balance will be booked as and when the vacancies are filled up.
5	Additional lines of production under taken to fully utilize the staff that were declared surplus in the various sections brought under the scheme.	In TL/CW and LT/LW shops modifications for passenger amenity are carried out namely IC lamps to FL fitting PABT, Chart light fitting, Mobile/Laptop charger, extra fans etc. DEMU and EMU coaches are POH at LT/LW. CW and LW are maintenance/Service shop.	Nil
6	Average bonus earned per head per day.	₹ 79.56/-	₹ 96/-
7	Average increase in productivity during the year 2010-11 the period to the introduction of incentive scheme (In units).	456 Units (CW and LW are maintenance/service charges).	492 Nos. IOH Bogies & 6 IOH Coaches have been completed during the year.

9. Financial Position-Electrical Department

A. Revenue Budget As per the demands for Grants:- (Figs. in Lakhs of Rs.)

Demand Number and Description	Budget grant 2011-12	Final Grant 2010-11
Demand No. 5 Repairs and Maintenance of Motive Power (Electric Loco)	9093	9443
Demand No. 6 Repairs and Maintenance of Carriages and Wagons- EMU, TL and AC	23944	23347
Demand No. 7 Repairs and Maintenance of Plants and Equipments.	13113	12117
Demand No. 8 Operating Expenses-Rolling stock and Equipments.	19337	23133
Demand No. 10. Operating Expenses-Fuel for Electric Traction.	44689	39834
Demand No.11 Staff Welfare and Amenities - Supply of Energy for Power & lighting (J 580)	1226	1664
Total	111402	109538

B. Works Budget:-

(Figs. in Lakhs of Rs.)

Demand Number and Description	Budget Grant 2011-12	Final Grant 2010-11
Plan Expenditure works controlled by CEE/MAS (Electrical Departments)		
1. Traffic Facilities	23.17	54.54
2. Other Electrical Works	2131.00	1140.00
3. Workshops	142.40	80.64
4. Staff Amenities	117.07	93.51
5. Passenger Amenities	78.00	448.97
6. Machinery and Plants	370.92	545.00
7. Rolling Stock	1038.09	670.59
8. Other Specified Works	1.50	0
9. Road Safety work	44.70	29.99
Total	3946.85	3063.24

10. RAILWAY ELECTRIFICATION/CHENNAI

I. 25kV energisation during the year 2010-11

Section	RKM	TKM	Date of 25 kV charging	Remarks
Tiruchchirappalli Jn. (excl.)-Dindigul Jn. (Incl.)	94.23	118.28	22-3-11	Goods traffic introduced with 25 kV. AC electric traction on 26-3-2011

II. Commissioning of TSS

Sl No.	Group	Name of the TSS	Date
1	131	Vriddhachalam	16-4-10
2	144	Vaiyyampatti	17-12-10

III. 2.2 kV Anti theft Energisation

Sl. No.	Group No.	Section	RKM	Date of Energisation	Remarks
1	139	Thiruvananthapuram (excl)-Kanniyakumari (excl).	84.605	31-3-11	
2	154	Madurai (excl)- Kadambur (excl).	106.29	31-3-11	
3	155	Villupuram (excl)- Tirukkivilur (excl).	30.978	31-3-11	
		Total	221.873		
		Rounded To	222		



IX. SIGNAL AND TELE-COMMUNICATION

1. **General.** — The over all performance of Signal and Tele-communication Installations continued to be satisfactory consistent with the Increase in assets consequent on the execution of numerous planned works.
2. **Signalling.**— The distribution on Interlocked stations and those provided with Rudimentary Interlock on the Railways as under :—

Gauge As on	Inter-locked stations						Non-Inter-locked stations			Total No. of Block Stations
	Std. III		Std. I		Rudimentary		Without Rudimentary			
	31st March 2010	31st March 2011	31st March 2010	31st March 2011	31st March 2010	31st March 2011	31st March 2010	31st March 2011	31st March 2010	31st March 2011
Broad Gauge	382	405	57	55	0	0	2	2	441	462
Metre Gauge	0	0	12	3	13	13	2	2	27	18
Total	382	405	69	58	13	13	4	4	468	480

Summary

Total No. of Inter-locked stations as on 31-03-2011	405	+	58	+	13	=	476
Total No. of Non-Interlocked stations as on 31-03-2011	—	—	—	—	—	=	4 only
Total No. stations closed for Gauge conversion as on 31-03-2011	—	—	—	—	—	=	31
Total No. of Block stations :	476	+	4	+	31	=	511

Note.— 1. This excludes flag & Halt stations but includes block huts.

2. Stations in automatic territory where emergency cross over exists and worked from the premises are included.

3. Stations in automatic territory where there are no points but provided with signals and track circuits are treated as non-block stations and hence are not included in the list of block stations.

(B) **Method of Train Working.**—Various systems of train working in vogue with number of block sections as on 31st March 2010 Gauge wise along with corresponding figures for 31st March 2011 are given below :—

Serial No.	System of Train Working	Broad Gauge		Metre Gauge		Total	
		31st March 2010	31st March 2011	31st March 2010	31st March 2011	31st March 2010	31st March 2011
1.	Single Line Token Instrument (No. of Block section)	12	12	27	18	39	30
2.	Tokenless Block Instrument (No. of Block section)	218	380	0	0	218	380
3.	Paper Line Clear Ticket	—	—	—	—	—	—
	a. Single Line	—	—	—	—	—	—
	b. Double Line	—	—	—	—	—	—
4.	Lock and Block Instrument (No. of Block section)	136	139	0	0	136	139
5.	Automatic Signalling in Kms.						
	a. Track Kilometres	1005.92	1050.73	0.00	0.00	1005.92	1050.73
	b. Route Kilometres	434.06	441.11	0.00	0.00	434.06	441.11
6.	Intermediate Block Signalling in Kms.	100.84	111.45	0	0	100.84	111.45
7.	One Engine Only System	—	—	—	—	—	—
8.	Other Systems						
	a. Continuous Track Circuiting (Other than Auto signalling)	59.82	59.82	0	0	59.82	59.82
	b. Twin Single Line	263.76	263.76	0	0	263.76	263.76
	c. Train Staff Ticket System	—	—	—	—	—	—

(C) Type of Signalling as on current year 31st March 2011—

		<u>Total No. of stations on</u>					
Serial No.	Route	Quadruple Line	Double Line	Third Line	Single Line	Twin Single Line	Total
(i) (a) Two Aspect Semaphore Signalling—							
E-Route		2	..	2
MG-Route		18	..	18
Total		20
(b) Two Aspect Colour Light Signalling—							
'A' Route	
'B'-Route
Other (Including (MG)	
(ii) Multiple Aspect Upper Quadrant Signalling—							
(a) D-Route		14	..	14
E-Route		7	..	7
Other (Including MG)	
Total		21

(iii) Multiple aspect colour light signalling—

Serial No.	Route	Total No. of stations on					Total
		Quadruple Line	Double Line	Third Line	Single Line	Twin Single Line	
'A' Route	..	2	15	4	..	..	21
'B' Route	..	13	108	3	50	2	176
'C' Route	5	..	..	..	5
'D' Route	61	..	122	..	183
'E' Route	54	..	54
MG
Total	439
Total (i+ii+iii)	..	15	189	7	267	2	480

D. Signalling Assets

	Total No. of Stations						Total
	A-Route	B-Route	C-Route	D-Route	E-Route	MG-Route	
1. Electronic Inter-locking (SSI)	8	14	..	13	..	..	35
2. Route Relay Inter-locking-RRI	3	34	3	12	3	..	55
3. Panel Inter-locking-PI or P1/RS	10	111	2	153	46	..	322
4. Centralised Operation by SM's Side Control (CO)	..	10	..	15	6	..	31
5. Lever Frame	..	..	..	2	8	18	28
6. IBS	..	7	..	2	..	..	9
7. Gauge conversion	..	..	..	..	..	31	31
Total	21	176	5	197	63	49	511

(ii) Non-Inter locked Gates—

Route	Total No. as on 31st March 2011					Total
	Special Class	'A' Class	'B1' Class	'B2' Class	'C' Class	
Trunk Route and Important Main Line :	2	7	..	..	89	98
1. 'A' & 'B' Route on B. G.	..	1	..	..	3	4
2. 'Q' & 'R' Route on M. G.	..	..	..	..	..	..
Others ..	12	30	2	13	589	646
Total	14	38	2	13	681	748

(iii) Unmanned Gates.—As on 31st March 2011

Sl. No.	Section	No. of Unmanned Gates		
(1)	Single line	..	..	1,077
(2)	Double line	..	..	50
Total	..	..	..	1,127

H. Tele-communication Narrative Report—2010-11

(I) Exchanges

Sl. No.	Exchanges	Auto Exchanges	Inter-com.	Remarks
(1)	Total No. of Exchanges	70	48	..
(2)	Telephone Lines (in service)	1,42,347	2,651	..

(II) Traffic Control Including Area Control

Section Control

Sl.No.	Division	Section	Route Kms
--------	----------	---------	-----------

i) BSNL Rented Aerial Lines

1.	Salem	Coimbatore – Mettupalayam	35.51
2.	Salem	Mettupalayam – Udhagamandalam	45.88
Total			81.39

ii). Railway owned Aerial lines

1.	Thiruvananthapuram—Nagercoil – Tirunelveli	73.29
2.	Thiruvananthapuram—Nagercoil – Kanyakumari	15.51
Total		88.80

iii). RE-QUAD TELECOM CABLES

1.	Chennai	Pattabiram – Pattabiram Military Siding 'E' Depot :	2.03
2.	Chennai	Villivakkam – Annanagar	3.09
3.	Salem	Salem – Mettur Dam	40.25
Total			45.37

iv). OFC + RE QUAD CABLE

1.	Chennai	Chennai – Thirumayilai	8.68
2.	Chennai	Chennai – Arakkonam	68.48
3.	Chennai	Chennai – Chennai Beach-Basin Bridge	4.66
4.	Salem	Salem – Erode	59.25
5.	Salem	Erode – Coimbatore	100.54
6.	Salem	Erode – Jolarpettai Jn.	120.04
7.	Salem	Irugur – Podanur – Coimbatore	16.77
8.	Palakkad	Podanur – Palakkad	48.26
9.	Palakkad	Palakkad – Shoranur	44.49
Total			471.17

OFC + 4 QUAD

1.	Chennai	Chennai – Gudur	136.04
2.	Chennai	Chennai Beach – Villupuram	162.76
3.	Chennai	Thirumayilai – Tiruvanniyur-Vellachery	12.68
4.	Salem	Erode – Tiruchchirappalli	141.20
5.	Palakkad	Shoranur – Calicut – Mangalore	307.07
6.	Thiruvananthapuram	Shoranur – Trisur – Ernakulam	106.85
7.	Thiruvananthapuram	Ernakulam – Kottayam – Kayankulam	114.66
8.	Thiruvananthapuram	Ernakulam – Alleppey – Kayankulam	100.34

Sl.No.	Division	Section	Route Kms
9.	Thiruvananthapuram	Kayankulam – Kollam	40.84
10.	Thiruvananthapuram	Ernakulam – Cochin Harbour Terminus	7.75
11.	Thiruvananthapuram	Kollam – Thiruvananthapuram	64.30
12.	Tiruchchirappalli	Villupuram – Vridhachalam – Tiruchchirappalli	177.53
13.	Tiruchchirappalli	Tiruchchirappalli – Thanjavur – Tiruvarur	104.17
14.	Tiruchchirappalli	Mayiladuthurai Jn. – Thanjavur	37.91
15.	Madurai	Tiruchchirappalli – Madurai	157.39
Total			1671.49

OFC + 6 QUAD

1.	Chennai	Arakkonam – Renigunta	66.30
2.	Chennai	Chengalpattu – Arakkonam	62.96
3.	Chennai	Arakkonam – Jolarpettai	144.59
4.	Salem	Karur – Dindigul	73.97
5.	Salem	Podanur – Kinathukadavu	24.81
6.	Palakkad	Shoranur – Nilambur	65.80
7.	Palakkad	Pollachi – Kinathukadavu	21.16
8.	Thiruvananthapuram	Trichur – Guruvayur	22.63
9.	Thiruvananthapuram	Thiruvananthapuram – Nagercoil	71.05
10.	Thiruvananthapuram	Nagercoil – Tirunelveli	73.29
11.	Thiruvananthapuram	Nagercoil – Kannyakumari	15.51
12.	Tiruchchirappalli	Villupuram – Puducherry	37.30
13.	Tiruchchirappalli	Tiruvarur – Nagore	30.37
14.	Tiruchchirappalli	Katpadi – Vellore Cantonment	9.90
15.	Madurai	Madurai – Tuticorin – Tirunelveli	188.22
16.	Madurai	Dindigul – Pollachi	121.20
17.	Madurai	Madurai – Manamadurai – Rameswaram	144.15
Total			1173.21

Railway 4 QUAD ALONE

1.	Tiruchchirappalli	Tiruvarur – Karaikudi	148.99
Total			148.99

Railway 6 QUAD ALONE

1.	Chennai	Villupuram – Vellore	150.23
2.	Salem	Vridhachalam – Salem	138.88
3.	Salem	Coimbatore North – Karamadai – Mettupalayam	35.55
4.	Salem	Connoor – Udagamandalam	18.85
5.	Salem	Coimbatore North – Mettupalayam – Kallar	42.97
6.	Tiruchchirappalli	Vridhachalam – Cuddalore	57.3
7.	Tiruchchirappalli	Tanjavur – Kumbakonam	39.35
8.	Tiruchchirappalli	Kumbakonam – Mayiladuthurai	31.10
9.	Tiruchchirappalli	Thiruvananthapuram – Cuddalore – Mayiladuthurai	121.78
10.	Tiruchchirappalli	Nagore – Velakanni	11.00
11.	Madurai	Virudunagar – Tenkasi	122.16
12.	Madurai	Karaikudi – Tiruchchirappalli	89.35
13.	Madurai	Karaikudi – Manamadurai	61.16
14.	Madurai	Mandapam – Rameswaram	17.34
15.	Madurai	Punalur – Quilon	44.98
16.	Madurai	Tirunelveli – Tiruchandur	61.21
17.	Madurai	Tenkasi – Senkotai	7.83
Total			1051.04

CONTROL SECTIONS

Division	Section
Chennai	Chennai – Tiruvallur
	Chennai – Tiruvallur – Katpadi
	Chennai – Katpadi – Jolarpettai
	Chennai – Arakkonam – Renigunta
	Chennai – Gudur
	Chennai Beach – Villupuram, Chengalpattu – Arakkonam
	Chennai Beach – Tambaram,
	Chennai Beach – Velachery

Salem	Salem - Jolarpettai, Salem - Metturdam, Salem - Vriddhachalam
	Salem - Erode - Coimbatore - Podanur - Kinathukadavu, Coimbatore - Udhagamandalam
	Salem - Karur - Tiruchchirappalli, Karur - Dindigul
	Palakkad - Shoranur, Palakkad - Pollachi - Kinathukadavu - Palakkad - Podanur
Palakkad	(Palakkad) - Shoranur - Cannanore, Shoranur - Nilambur - (Palakkad) - Cannanore - Panambur
	Thiruvananthapuram - Kollam - Ernakulam Kollam - Ernakulam - Shoranur, Ernakulam - Alleppey - Kayankulam - Kochi Harbour Terminus
	Kollam - Thiruvananthapuram - Kanyakumari - Nagercoil - Tirunelveli
Thiruvananthapuram	(Tiruchchirappalli) - Villupuram - Katpadi, Villupuram - Pondicherry, Cuddalore - Villupuram, Vriddachalam - Cuddalore
	Tiruchchirappalli - Vriddachalam - Villupuram, Tiruchchirappalli - Thanjavur - Kumbakonam - Mayiladuthurai - Cuddalore
	Tiruchchirappalli - Tanjavur - Tiruvarur - Nagore, Tiruvarur - Mayiladuthurai, Tiruvarur - Thiruthurai - Karaikudi
Madurai	Madurai - Dindigul - Tiruchchirappalli - Dindigul - Pollachi
	Madurai - Virudunagar - Vanchi Maniyachi, Tuticorin - Vanchi Maniyachi - Tirunelveli, (Madurai) - Manamadurai - Rameswaram, Mana- madurai - Virudunagar, Manamadurai - Karaikudi - Tiruchchirappalli, Virudunagar - Tenkasi, Tenkasi - Quilon, Tenkasi - Tirunelveli, Tirunelveli - Tiruchendur.

BSNL PHONE AT STATIONS

Provision of BSNL phones at all stations.

S.No.	Division	Number of Stations Provided with BSNL Phones
1.	Chennai	104
2.	Salem	79
3.	Palakkad	65
4.	Thiruvananthapuram	71
5.	Tiruchchirappalli	87
6.	Madurai	111
Total		517

MICROWAVE

Network	No. of Stations	Route Kilometre
Digital Microwave	25	934.75

RAILNET CONNECTIVITY

S.No.	Connectivity	No. of locations Provided with Railnet
1.	LAN connectivity	60 Nodes
2.	Dialup connectivity	6 Nodes
3.	Internet Gateway Connection	40 MB through RGIL

PRS & UTS

Division	PRS Locations	UTS Locations
Chennai	42	126
Salem	15	73
Palakkad	23	59
Thiruvananthapuram	33	60
Tiruchchirappalli	23	84
Madurai	30	97
Total	166	499

PASSENGER AMENITIES

S.No.	Telecom Items	Numbers
1.	PC based PA system	95
2.	Clocks [QUARTZ]	All Stations provided
3.	Coach Guidance System	52
4.	Train Display Board	105
5.	Conventional PA System	217
6.	Touch screens	207
7.	POET	87

SATELLITE PHONES—9

FOIS ,CMS & COIS

1.	FOIS	137 Locations
2.	COIS	53 Locations
3.	CMS	26 Locations
4.	V — SAT Connectivity	18 Locations

VOICE RECORDER IN CONTROL OFFICE

Voice Recorders are provided on all the 23 Section controls and 8 Traction Power Control in all Divisions.

CUG PHONES

6700 CUG SIM cards of M/S. AIRTEL are provided for Officers & Staff in all Divisions, Headquarters office, project and Construction wing.

VIDEO CONFERENCE

Video conferencing arrangements in Headquarters and all divisions is connected through OFC Ethernet media with ring protection.

CRB with GMs Video Conferencing system is connected through OFC MPLS Network between Chennai and New Delhi.

PERFORMANCE OF TELECOMM CIRCUITS

S. No.	Name of The Circuit	2010-11 Performance in %
a.	Average Efficiency of Control Circuits on Railway OFC	
	Circuit	99.51
	Operating	99.82
b.	Average Efficiency of Control Circuits on Railway Quad Cable	
	Circuit	99.73
	Operating	99.74
c.	Average Efficiency of Control Circuits on Railway RE Cable	
	Circuit	99.72
	Operating	99.81
d.	Average Efficiency of Control Circuits on Railway RE Cable	
	Circuit	99.56
	Operating	99.84
e.	Average Efficiency of Control Circuits (Railway OH Link)	
	Circuit	99.95
	Operating	99.96
f.	Average Efficiency of Control Circuits (BSNL OH Link)	
	Circuit	89.93
	Operating	95.98

3. MATTER RELATING TO TELECOMMUNICATION WORKS—OFC WORKS

Sl. Nos.	Description of Work	Year of Programme	Estimated cost Rs. (in lakhs)	Physical progress upto 31st March 2011	Remarks
1.	Villupuram-Tirukovilur Tiruvanamalai (OFC & Quad work)	....	479.00 P. 1473	95%	Work nearing completion.
2.	Nagappattinam-Velankanni (OFC & 6 Quad)	....	39.96 P. 1473	95%	Work completed and sundry works due to GC cuttings are attended.
3.	Manamadurai-Virudhunagar Tenkasi-Tirunelveli- Tiruchendur-OFC	....	810.40 P. 1473	40%	Work is in progress.
4.	Coimbatore North- Mettupalayam, Mettupalayam, Udhagamandalam (OFC & 6 Quad)	2007 - 08	456.13 DF3	40%	Work is in progress.
5.	Madurai-Mananadurai- Rameswaram-OFC	2007 - 08	526.10 DF4	80%	Work is in progress.
6.	Chennai - Arakkonam - 6 Quad cable	2008 - 09	318.47 DRF	50%	Work is in progress.

4-MATTER RELATING TO S&T / PROJECTS / CHENNAI

Para 3:- Major Signalling Development and Signalling Elements of Line Capacity Works Costing More than 20 Lakhs.

(a) Pure Signalling Works.

3(a) (i) the Position of Major Signalling Works at the end of Financial Year review is as under :-

Sl. No.	Name of Work	Sanctioned in the Year	Estimated cost in Lakhs of Rs.	Physical progress upto 31st March 2011	Remarks
1.	Chennai Beach - Gummidipundi - Train Protection Warning System (TPWS)	1998-99	5354.37 DF(4)	100%	Work commissioned on 2-5-08. To arrest on board failures, modification in motor coaches as suggested by company representation as in progress 80 coaches out of 81 coaches Intensive monitoring of TPWS performance in progress.
2.	Southern Railway - Advanced Starters at Stns. With LSS based starters (9 Stns).	1999-2000	55.66 DF(4)	50%	Work completed at 5 stations and balance work is in progress at 4 stations.
3.	Chennai, Palakkad, & Thiruvananthapuram, Divisions - Calling on signals and signal post type telephones at 17 Stations.	1999-2000	78.35 DF(3)	55%	Work completed and commissioned at 15 stations and work is in progress at balance 2 stations.
4.	Chennai, Palakkad & Tiruchchirappalli Divisions- Calling on Signal with Post Tele- phones below Home Signal (20 Stations).	2000-01	122.8 DF(3)	25%	Work completed at 10 stations and balance work is in progress at 10 stations.
5.	Chennai - Pattabiram & Chennai - Gummidipundi Improvement of Signalling arrangements by provision of Data Logger with remote monitoring (220 Nos.).	2000-01	374.21 DF (3)	90%	21 Nos. of data loggers provided and commissioned and cable laying work is in progress for RTU between MAS-PAB and MAS-GPD sections.

Sl. No.	Description of Work	Year of Programme	Estimated cost Rs. (in lakhs)	Physical progress upto 31st March 2011	Remarks
6.	Southern Railway – Provision of Advanced starter where starters are working as Last Stop Signals. (10 Stations.)	2000–01	147.32 DF(4)	60%	Work completed at 9 stations and balance work is in progress.
7.	Pattabiram – Arakkonam - Audio frequency track circuit in lieu of conventional DC track circuit.	2000–01	1458.93 SRSF	80%	Detailed estimate is sanctioned and work is in progress.
8.	Chennai Division – Basin Bridge, Korukkupet & Veysarpadi – Replacement of signalling gears	2001–02	532.26 SRSF	100%	Work completed at all stations.
9.	Chennai – Ambattur – Audio Frequency Track Circuit in lieu of conventional DC Track Circuit on Slow Lines.	2002–03	668.28 DRF	—	Revised estimate is sanctioned and TCM in progress.
10.	Chennai Division : Improvement of Safety by Tripple Pole Lamps (200 Nos.) and enhancement of reliability of data logger (10 Nos.) and IPS (3 Nos.)	2002–03	27.60 DRF 138.60 DF (4)	80%	1) Estimate is sanctioned and work is in progress.
11.	Tiruchchirappalli Division : Improvement of Safety by Triple Pole Lamp (200 Nos.) and replacement of Power supply equipment.	2002–03	61.22 DF(4)	70%	Work is in progress.
12.	Arakkonam – Renigunta – Replacement of signalling gears with centralised operation of points and signals (B route) (7 stations).	2002–03	1607.65 SRSF	85%	Replacement work completed and commissioned at 7 stations. BPAC work is in progress between TDK-RU section.
13.	Chennai & Madurai Dn. – Repl. of signalling gears with centralised operation of points & signals. (4 stations).	2002–03	1213.83 SRSF	100%	Work completed and commissioned.
14.	Ernakulam Town - Repl. of signalling gears with centralised operation of points & signals (A route) (4 stations)	2002–03	242.59 SRSF	100%	Work completed and commissioned.
15.	Palakkad Division - Repl. of signalling gears with centralised operation of points & signals (B route) (6 stations)	2002–03	1263.53 SRSF	92%	Replacement work completed and commissioned at all stations BPAC work completed and work is in progress between SA-VRPD station.
16.	Palakkad Division - Perundurai, Ingur, Uttukuli, Somanur & Suler - Repl. of signalling gears with centralised operation of points & signals. (B Route)	2002–03	958.53 SRSF	100%	Work completed and commissioned at all stations.
17.	Thiruvananthapuram Dn. - Repl. of signalling gears with centralised operation of points & signals (D route) (9 stations)	2002–03	1409.12 SRSF	90%	Work completed and commissioned at all stations and provision of BPAC work is in progress in 2 block sections.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2011	Remarks
18.	Erode – Karur – Fouling mark to fouling mark & fouling mark to block section limit track circuiting (D&E Routes) (10 stations).	2002-03	1291.61 SRSF	80%	Work completed at 10 stations in Madurai division and 5 stations in PGT division and 4 stations in TVC division. Work is in progress in 1 station in TVC division.
19.	Southern Railway – Fouling mark to fouling mark (run through) track circuiting (E Route) (20 stations).	2002-03	121.22 SRSF	63%	Work completed at 18 stations and balance work in progress at 2 stations.
20.	Southern Railway – Track circuiting with centralised operation of points & signals (56 stations).	2002-03	516.32 SRSF	80%	Estimate is sanctioned and work is in progress.
21.	Ennore & Gummidipundi – Replacement of signalling gears by Route Relay Inter-locking.	2003-04	382.58 DRF	100%	Work completed and commissioned at Ennore & Gummidipundi.
22.	Tiruchchirappalli – Dindigul – Enhancement of reliability & Replacement of power supply arrangements.	2003-04	40.00 DRF 40 DF(4)	80%	Provision of Data Loggers is commissioned at 10 Stations and provision of IPS arrangements is in progress.
23.	Palakkad Division – Track Circuiting FM-FM Loop Line, FM-BSL (Straight & Turnout) & Home – Top Point (Straight & Turnout) (E-Route).	2003-04	600.55 DF(4)	90%	Work completed at 6 stations and balance work is in progress at 2 stations.
24.	Thiruvananthapuram Dn. – Track Circuiting fouling mark to fouling mark, fouling mark to block section limits & home to top point (E-Route).	2003-04	77.95 DF(4)	—	Detailed estimate is sanctioned and tender schedules under finalisation.
25.	Madurai Division – Track Circuiting fouling mark to fouling mark, fouling mark to block section limits & home to top point (E-Route) (Main Line).	2003-04	142.60 DF(4)	100%	Completed.
26.	Basin Bridge – Ambattur (fast lines) & Ambattur – Pattabiram (slow lines) – Audio Frequency Track Circuits in lieu of Conventional DC Track Circuits.	2003-04	1941.16 DRF	—	Detailed estimate is sanctioned by GM/S.Rly/MAS. The work is taken up based on the guidelines issued by RDSO and Railway Board. LOA for ABU-PAB issued and work is in progress.
27.	Ernakulam – Shoranur – Palakkad Erode – Chennai and Bangalore – Jolarpettai – Chennai – Anti Collision Device.	2003-04	20584.00 DF(4)	—	Railway Board has advised M/s. KRCL to start field trials on few sections of Southern Railway to validate suitability of the system for electrified, automatic signalling. IBS and Multiple section. Trials will be conducted between PAB and AJJ sections as per Board's observation.
28.	Palakkad Division – Enhancement of reliability and Jolarpettai-Palakkad- Replacement of Power supply arrangements.	2003-04	194.00 DF(4)	50%	Detailed estimate is sanctioned and work is in progress.
29.	Villupuram – Tiruchchirappalli – Dindigul – Block Proving Axle Counter in Panel/ Route Relay Inter-locked Sections (270.14 Km.) (34 Block Sections.)	2004-05	1395.68 DF (4)	55%	Work completed and commissioned at 3 block sections and balance work is in progress.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2011	Remarks
30.	Jolarpettai – Podanur – Shoranur – Block Proving Axle Counter in Panel/ Route Relay Inter-locked Sections (270.14 Km.) (35 Block Sections).	2004-05	1644.73 DF(4)	40%	Work completed and commissioned at 7 block sections and balance work is in progress.
31.	Shoranur – Ernakulam – Alleppey – Kayankulam – Thiruvananthapuram –Block Proving Axle Counter in Inter-locked Sections (317 Km.–39 BS).	2004-05	2078.68 DF(4)	10%	Detailed estimate is sanctioned and work is in progress.
32.	Aralvoimoli, Valliyur & Nanguneri – Upgradation of Inter-locking from Standard I to III.	2004-05	141.31 DF(3)	20%	Detailed estimate is sanctioned.
33.	Ennore – Gummidipundi – Replacement of Conventional DC Track Circuit by Audio Frequency Track Circuit incl. Repl. of sigg. Cables (32 Km.).	2004-05	1153.49 DRF	15%	Consolidate estimate is sanctioned and TCM is in progress.
34.	Palakkad, Madurai & Tiruchchirappalli Divisions – Track Circuiting (involving Frequent Shunting) (8 Stations).	2004-05	561.84 DF(4)	—	Work completed and commissioned at three stations SAMT, MTP & NIL. ONR and UAM works cannot be done due to Heritage stations PLN1, POY and TTP are coming under GC.
35.	Chengalpattu – Villupuram – Block Proving by Axle Counter in Panel/ Route Relay Interlocked Section (102 Km. – 11 Block Sections).	2004-05	520.73 DF(4)	—	Detailed estimate is sanctioned.
36.	Dindigul – Coimbatore – Pollachi - Palakkad - Repl. of BSNL Overhead Alignment by 6 Quad Cable (218 Km.).	2004-05	848.41 DF(4)	80%	Work completed and commissioned on DG-POY -PTJ section. The work in Pollachi-Palakkad section will be executed along with GC work.
37.	Irugur – Coimbatore – Block Proving by Axle Counter in Panel/ Route Relay Inter-locked Section (31 Km. – 4 Block Sections).	2004-05	113.12 DF(4)	20%	Work completed in 3 block sections on IGU-PLMD, PLMD-CBF and CBE-PTJ.
38.	Nethravathi – Kankanadi – Tokur Block Proving by Axle Counter in Panel/Route Relay Inter-locked Section (21 Km.- 2 Block Sections).	2004-05	62.10 DF(4)	50%	Work completed in MAJN-TOK block section. Work is in progress in balance one block section work is in progress.
39.	Calicut – Cannanore - Block Proving by Axle Counter in Panel/ Route Relay Inter-locked Section (71 Km.- 10 Block Sections).	2004-05	578.81 DF(4)	80%	Work commissioned at 9 Block sections and balance work is in progress.
40.	Cannanore – Mangalore - Block Proving by Axle Counter in Panel/Route Relay Inter-locked Section (132 Km. - 15 Block Sections).	2004-05	748.91 DF(4)	95%	Work commissioned at 15 Block sections.
41.	Thiruvananthapuram – Kanyakumari - Block Proving by Axle Counter in Panel/Route Relay Inter-locked Section (87 Km.- 5 Block Sections).	2004-05	252.04 DF(4)	30%	Work completed in one block section (CAPE-NCJ). Work is in progress in balance 4 block sections.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2011	Remarks
42.	Tirunelveli – Nagercoil - Block Proving by Axle Counter in Panel/Route Relay Interlocked Section (70 Km. - 5 Block Sections).	2004-05	244.47 DF(4)	35%	Detailed estimate is sanctioned. Business with the contractor is suspended and it is decided to execute the work departmentally.
43.	Golden Rock – Thanjavur - Block Proving by Axle Counter in Panel/Route Relay Inter-locked Section (47 Km.- 4 Block Sections).	2004-05	174.67 DF(4)	60%	Detailed estimate is sanctioned and work is in progress in BAL - TJ section.
44.	Dindigul - Madurai - Block Proving by Axle Counter in Panel/Route Relay Interlocked Section (61 Km. - 7 Block Sections).	2004-05	282.44 DF(4)	100%	Work completed and commissioned.
45.	Pattabiram – Walajah Road (77 Km.) & Gummidipundi – Gudur (90 Km.) – Relay Terminal Units & Networking.	2004-05	460.36 DF(4)	70%	Work completed in TRL-AJJ section and balace work in progress.
46.	Chennai Beach – Chengalpattu (60 Km), Chengalpattu – Villupuram (102 Km), Arakkonam Jn. - Chengalpattu (63 Km) - Relay Terminal Units & data Logger Networking.	2004-05	256.28 DF(4)	60%	Detailed estimate sanctioned. Tender opened for provision of Cable laying and installation of RTU equipments are in progress.
47.	Erode Jn. – Karur Jn. - replacement of MAUQ Sigg. Gears by (PI) at 6 stations and 3 Mid section LCs including raising of Stanadard of Inter-locking (2 stations) (E-Route) CVD,URL, PAS,KMD,PGR & MPLM.	2005-06	1160.74 DRF	80%	Work completed at 4 stations CVD & PAS URL & MPLM and balance work is in progress at 2 stations (PGR & KMD).
48.	Nagercoil jn. - Replacement of MAUQ Sigg. Gears by Electronic Inter-locking (E - route)	2005-06	273.44 DRF	95%	Detailed estimate is sanctioned and work is in progress.
49.	Tiruchchirappalli Division - Rehabilitation/Renewal of signal gears (over 35 years) with axle counter track circuiting (10 stations) MARD,TAM,MTT, AMM,PKT,AYI,ATQ, KNPL & TIP.	2005-06	251.64 DRF	—	Detailed estimate is sanctioned and work is in progress.
50.	Madurai Division - Rehabilitation/Renewal of signal gears (over 35 years) with axle counter track circuiting (9 stations) and Track circuiting (12 stations) MARD,TAM,MTT, AMM,PKT,A	2006-07	319.56 DRF	10%	Detailed estimate is sanctioned and work is in progress.
51.	Chennai Division - Repl of shelf type track relays by plug-in type Q relays (1315 Nos.) & Point machines by High Thrust IRS point machines (284 Nos.).	2006-07	389.56 DRF	60%	Detailed estimate is sanctioned and work is in progress.
52.	Palakkad Division - Repl of shelf type track relays by plug-in type Q relays (200 Nos.) & Point machines by High Thrust IRS point machines (68 Nos.).	2006-07	77.48 DRF	60%	Detailed estimate is sanctioned by ADRM/PGT. Contract terminated due to very slow progress.
53.	Thiruvananthapuram Division - Repl of shelf type track relays Sr.DSTE/TVC and LOA issued. by plug - in type Q relays (333 Nos.) & Point machines by High Thrust IRS point machines (89 Nos.).	2006-07	108.45 DRF	—	Detailed estimate is sanctioned 36 Nos. Point machines were replaced and balance work is in progress.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st. March 2011	Remarks
54.	Tiruchchirappalli Division - Repl. of shelf type track relays by plug-in type Q relays (590 Nos.) & Point machines by High Thrust IRS point machines (86 Nos.).	2006-07	151.00 DRF	—	Detailed estimate is sanctioned by ADRM/TPJ and TCM in progress.
55.	Madurai Division - Repl. of shelf type track relays by plug-in type Q relays (360 Nos.) & Point machines by High Thrust RS point machines (20 Nos.).	2006-07	75.08 DRF	100%	Detailed estimate is sanctioned. Replacement of 5E Point machines by IRS point machines are completed.
56.	Chennai Division : Improvement reliability and visibility of signals using light emitting diode Signals (Phase-I) (A & B routes & Suburban sections).	2006-07	529.25 DF(4)	....	Detailed estimate is sanctioned and tender schedules are under preparation.
57.	Wadakkancheri : Replacement of Panel inter-locking arrangements by Panel Interlocking (Route setting Type) - B Route.	2006-07	170.83 DRF	95%	Work completed and commissioned.
58.	Karur - Dindigul - Repl. of overhead block & control alignment by optic fibre & 6 quad cable (D-route) (74 kms).	2006-07	420.54 DRF	100%	Work completed and commissioned.
59.	Tiruchchirappalli-Villupuram Chinnababysamudram-Puducherry-Provision of BPAC (2 block section).	2006-07	48.78 DRF	60%	Detailed estimate is sanctioned and work is in progress.
60.	Arakkonam Jn. - Jolarpettai Jn. - Replacement of RE Cables by 6 Quad Cable.	2007-08	149.98 DF(3)	95%	Work completed and commissioned.
61.	Attipattu - Gummidipundi section -Reliability improvements to ring main power supply for signalling equipments.	2007-08	220.14 DF(4)	—	Detailed estimate is sanctioned. TCM in progress.
62.	Chennai Division : Replacement of Point Machines (284 nos.) and Shelf type relays (1315 nos.).	2007-08	390.990 DRF	90%	Work is in progress.
63.	Angadipuram-Vaniyambalam and Nilambur section - Replacement of MAUQ signalling by MACL.	2007-08	421.13 DRF	30%	Detailed estimate is sanctioned. LOA issued for AAM, VNB & NIL stations and work is in progress at AAM station.
64.	Palakkad and Thiruvananthapuram Division - Replacement of point machines (68 nos.) and Shelf type Relays (200 nos.).	2007-08	177.19 DF(4)	40%	Detailed estimate is sanctioned and work is in progress.
65.	Thiruvananthapuram Division Station Dataloggers (25 stations).	2007-08	180.10 DF(4)	—	Detailed estimate is sanctioned. Work commissioned at 5 stations and balance work is in progress in 12 stations.
66.	Tiruchchirappalli Division - Replacement of point machine (86 nos.-Stations and Shelf type Relays (590 nos.)	2007-08	155.62 DF(4)	50%	Detailed estimate is sanctioned and all point machines were replaced.
67.	Tiruchchirappalli Division (12 nos.) and Madurai Dn. (8 nos.) - Station Dataloggers (25 stations).	2007-08	196.48 DF(4)	100%	Work completed and commissioned.
68.	Chengalpattu Jn. - Villupuram Jn. - Integrated Power Supply (16 stations).	2007-08	267.70 DF(4)	—	Detailed estimate is sanctioned.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2011	Remarks
69.	Palakkad Division – Station Dataloggers with networking (33 stations)	2007-08	259.19 DF(4)	—	Detailed estimate is sanctioned.
70.	Coimbatore North – Mettupalaiyam (35 km) & Mettupalaiyam – Udhagamandalam (45 Km) – Composite	2007-08	456.13 DF(3)	40%	Work is in progress.
71.	Jolarpettai Jn. – Salem Jn. - Optic fibre cable (18 stations).	2007-08	479.34 DF(3)	100%	OFC and 6 Quad cable laying completed.
72.	Madurai and Tiruchchirappalli Divisions - Light Emitting Diode signals in Chord lines.	2007-08	414.66 DF(4)	75%	Provision of LED signals have been completed at 7 stations in MDU Dn. and at 27 stations in TPJ division balance work is in TPJ-DG section.
73.	Madurai – Manamadurai – Rameswaram – Optic fibre cable.	2007-08	526.10 DF(3)	80%	Work commissioned in Madurai-Manamadurai section and balance work in progress.
74.	Pettavatalai & Kulithai - Replacement of Multi Aspect Upper Quadrant Signals by Panel inter - locking and upgradation of standard of Inter-locking.	2007-08	430.13 DRF	65%	Work commissioned at PLI station and balance work in progress at KLT station.
75.	Southern Railway - Taking over STM-1 associated equipment & 4 Fibre of Optic Fibre Cable from Railtel as per revised agreement	2007-08	412.16 DRF	—	Detailed estimate is sanctioned.
76.	Chennai Central – Arakkonam Jn. – 6 Quad Cable (B-Route) (70 Kms) incl. Pattabiram - Pattabiram E depot. (5 Kms).	2008-09	318.47 DRF	50%	Detailed estimate is sanctioned. LoA issued for MAS-TI section Cable laying is completed about 14.7 Kms.
77.	Perambur – Tiruvellore – Ring main arrangement and Replacement of Power Cable (36.03 Kms).	2008-09	318.10 DF(4)	—	Detailed estimate is sanctioned.
78.	Chennai Beach – Villupuram Jn., Chennai Beach - Tirumayalai – Light Emitting Diode Signals (Phase - II).	2008-09	263.00 DF(4)	95%	In MSB-CGL section works completed and work is in progress in balance-section.
79.	Villivakkam, Ambattur and Avadi - Replacement of Signalling gears by Route Relay Inter-locking.	2008-09	994.51 DRF	—	Detailed estimate is sanctioned.
80.	Shoranur – Nilambur – Repl of BSNL overhead block & control alignment by optic fibre & 6 quad cable (D-route) (66 kms).	2008-09	385.00 DRF	90%	Detailed estimate is sanctioned Quad and OFC cable laying is completed.
81.	Palakkad Division – Provision of Colour light signalling arrangements in lieu of semaphore signalling arrangements at Inter-locked LC gate No.002, 004 & 006 between SRR - AAM sections and No. 008 and 009 between VNB - AAM section.	2008-09	128.77 DRF	30%	Detailed estimate is sanctioned. Work is completed at 2 LC's and balance work is in progress.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2011	Remarks
83.	Chennai Division - Chennai Beach - Villupuram Jn. Replacement of OMEX - 8A by SDH and PD MUX with power supply arrangement in between MSB-VM section.	2009-10	157.45 DRF	—	Detailed Estimate sanctioned by CSTE/ P & P LOA issued and work yet to start.
84.	Chennai Division : Replacement of aged and worn-out signalling gears by Panel Inter-locking at Sri Venkatesaperumalrajupuram.	2009-10	144.25 DRF	—	Detailed Estimate sanctioned by CSTE/Projects.
85.	Chennai Division - Arakkonam - Chengalpattu - Provision of BPAC in PI/RR1 sections - 5 Block sections.	2009-10	167.81 DRF	—	Detailed Estimate sanctioned by CSTE/P & P LOA issued.
86.	Chennai Division - Arakkonam - Jolarpettai, Salem - Erode - Coimbatore, Erode - Tiruchchirappalli, Madurai - Thiruvananthapuram - Kanniyakumari - Taking over 4 fibres from Railtel Corporation.	2009-10	288.67 DF(3)	—	Detailed Estimate sanctioned. No expenditure is to be incurred till further instructions from Railway Board.
87.	Salem Division - Replacement of aged and worn-out signalling gears by Panel Inter-locking at Vijamangalam and Tottipalayam	2009-10	309.57 DRF	—	Consolidate detailed estimate preparation and sent to Accounts for vetting.
88.	Salem Division - Replacement of Multi Aspect Upper Quadrant Signalling Gears by Panel Inter-locking at Karamadai and Mettupalayam.	2009-10	459.73 DRF	—	Consolidate detailed estimate preparation and sent to Accounts for vetting.
89.	Salem Division - Improving the reliability and visibility of signals using LED signals.	2009-10	135.59 DRF	—	Detailed Estimate sanctioned by CSTE/ P & P/MAS TCM is in progress.
90.	Salem Division - Salem - Mettur Dam - Provision of OFC (40 Kms) - 5 stations & 6 Quad Cable between Omalur - Mettur Dam.	2009-10	230.71 DRF	—	Detailed Estimate sanctioned by CSTE/ P & P/MAS Tender scheduled are under preparation.
91.	Salem Division - Replacement of MAUQ signalling gears by Panel Inter-locking at Virarakkiam.	2009-10	223.66 DRF	—	Detailed Estimate prepared Engineering sub estimate is yet to receive.
92.	Palakkad Division - Replacement of obsolete SDH equipment with provision of NMS and enhancement of primary muxes in SRR-CLT section.	2009-10	34.87 DRF	—	Detailed Estimate sanctioned. Estimate handed over to RCIL for execution.
93.	Palakkad Division - OFC along with SDH ADD/Drop Muxes (STM-I). Digital primary D/I muxes and other associated equipments at ERS-SRR section.	2009-10	82.53 DRF	—	Detailed Estimate approved by CSTE/ P & P: Estimate handed over to RCIL.
94.	Tiruvanthapuram Division - Provision of LED Signals over TVC division (ERS-SRR section B Route portion)	2009-10	76.00 DRF(4)	—	Detailed Estimate is sanctioned and work is progress.
95.	Tiruvanthapuram Division - Provision of LED Signals in KUMM-CHPD and TRTR-ETM section.	2009-10 (OT)	78.42 DRF(4)	—	Detailed Estimate is sanctioned.
96.	Tiruvanthapuram Division - Provision of LED Signals in KYJ-PRND section.	2009-10 (OT)	66.15 DRF(4)	—	Detailed Estimate is sanctioned.
97.	Tiruvanthapuram Division - Provision of LED Signals in MYY-TVC-NCJ-CAPE-TEN	2009-10 (OT)	93.08 DRF(4)	—	Detailed Estimate is sanctioned.

Sl. No.	Description of Items	Added during 2009-10	Total as on 31-3-2010	Added during 2010-11	Total as on 31-3-2011
1.	Token Block Working (No. of Block Sections)	-13	39	-9	30
2.	Tokenless Block Working (No. of Block Sections)	-31	218	23	241
3.	Lock & Block Working (No. of Block Sections)	28	136	3	139
4.	Intermediate Block Sections (No. of Block Sections)-4	2	8	1	9
5.	Block Proving by Axle-counters (No. of Block Sections)	35	109	55	164
6.	Colour Light Signalling (No. of Stations)				
	(i) Multi Aspect	18	414	25	439
	(ii) 2-Aspect	—	—	—	—
7.	Semaphore Signalling (No. of stations)				
	(i) MAUQ	-3	34	-13	21
	(ii) MLQ	—	—	—	—
	(iii) LQ	-12	20	0	20
8.	Automatic Block Working				
	(i) Track kms.	36.46	1005.92	44.81	1050.73
	(ii) Route Kms.	8.40	434.06	7.05	441.11
9.	Automatic Permissive Block Working				
	(i) Track kms.	0	58.28	0.00	58.28
	(ii) Route Kms.	0	29.140	0.00	29.140
10.	Safety Devices at Level Crossings				
	(i) Inter-locking at Level Crossings (Nos.)	11	1114	39	1153
	(ii) Lifting Barriers at Level-Crossings (Nos.)	16	1052	39	1091
	(iii) Non-Interlocked Level-Crossings	3	342	1	343
	(iv) Telephone at Level Crossings (Nos.)	23	1748	5	1753
	(v) Train Actuated Warning System (Nos.)	16	26	0	26
	(a) At Unmanned Gates (Nos.)	11	20	0	20
	(b) At Manned Gates (Nos.)	5	6	0	6
11.	Total No. of Interlocked Stations (Nos.)	3	468	12	480
	(i) Non-Interlocked Stations	0	4	0	4
	(ii) Modified Non-Interlocked Stations	-1	13	0	13
	(iii) Block Hut with Station Master/IBS	0	0	9	9
	(iv) Interlocked Stations	4	451	3	454
	(a) Standard-I	-11	69	-11	58
	(b) Standard-II	—	—	—	—
	(c) Standard-III	15	382	14	396
12.	Route Relay Interlocking (No. of station)	3	55	0	55
	(a) Standard-I Interlocking	0	22	3	25
	(b) Standard-II	—	—	—	—
	(c) Standard-III	3	33	-3	30
13.	(A) Panel Interlocking (END PANES) (No. of stations)	—	—	—	—
	(i) Stations with MACL Signals				
	(a) Standard-I Interlocking	—	—	—	—
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	—	—	—	—
	(ii) Stations with Semaphore Signals				
	(a) Standard-I Interlocking	—	—	—	—
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	—	—	—	—
	(B) Panel Interlocking (CENTRAL PANELS) (No. of stations)	16	305	28	333
	(i) Stations with MACL Signals	16	295	28	323
	(a) Standard-I Interlocking	1	14	1	15
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	15	281	27	308
	(ii) Stations with Semaphore Signals	0	10	0	10
	(a) Standard-I Interlocking	0	5	0	5
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	0	5	0	5
14.	Lever Frames (No. of stations)	-17	36	-11	25
	(i) With MACL Signals	-2	2	-1	1
	(a) Standard-I Interlocking	-1	2	-1	1
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	-1	0	0	0
	(ii) Stations with Semaphore Signals (DW) (MAUQ) (No. of stns.)	-8	14	-10	4
	(a) Standard-I Interlocking	-6	12	-8	4
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	-2	2	-2	0
	(iii) Stations with Semaphore Signals (SW) (LQ) (No. of stations)	-7	20	0	20
	(a) Standard-I Interlocking	-7	19	0	19
	(b) Standard-II Interlocking	0	0	0	0
	(c) Standard-III Interlocking	0	1	0	1
15.	Solid State Interlocking (No. of stations)	11	33	2	35
16.	Auxiliary Warning System (Route Km)	0	50	0	50
	(Track Km.)	0	100	0	100

Sl. No.	Description of Items	Added during 2009-10	Total as on 31-3-2010	Added during 2010-11	Total as on 31-3-2011
17.	Second Distant (Nos.)				
	(i) Stations	0	0	0	0
	(ii) LC Gates	0	0	0	0
	(iii) Intermediate Block Signals	0	0	0	0
18.	Track Circuited (No. of stations)				
	(i) FM to FM	22	461	3	464
	(ii) FM to BSL (St)	22	454	10	464
	(iii) FM to BSL (T/O)	20	457	7	464
	(iv) FM to Home (St)	22	446	18	464
	(v) FM to Home (T/O)	0	206	7	213
	(vi) Loop line	20	452	12	464
19.	No. of Semaphore Signals Lit with Solar Power (Nos.)	-154	296	-81	215
20.	AFTC (Nos.)	163	1297	10	1307
21.	HFTC (Nos.)	0	0	0	0
22.	DIGITAL AXLE-COUNTERS (Nos.)				
	(i) Single Entry				
	(a) Stations	1	49	33	82
	(b) Equipments	23	119	66	185
	(ii) Multi Entry	—	—	—	—
	(a) Stations	—	—	—	—
	(b) Equipments	—	—	—	—
23.	ANALOG AXLE-COUNTERS (Nos.)				
	(i) Single Entry	—	—	—	—
	(a) Stations	0	36	-5	31
	(b) Equipments	10	82	-10	72
	(ii) Multi Entry	—	—	—	—
	(a) Stations	-4	4	0	4
	(b) Equipments	-5	10	0	10
24.	MICROTAX (Nos.)	—	—	—	—
25.	LED LIT Semaphore Signals (Nos.)				
	(a) No. of Stations	—	—	—	—
	(i) With Conventional Power	—	—	—	—
	(ii) With Solar Power	—	—	—	—
	(iii) With Primary Batteries	—	—	—	—
	(b) No. of Signals	—	—	—	—
	(i) Conventional Power	—	—	—	—
	(ii) Solar Power	—	—	—	—
	(iii) With Primary Batteries	—	—	—	—
26.	Electrically lit semaphore signals (Nos.)				
	(a) No. of Stations	0	34	-7	27
	(i) With Conventional Power	—	—	—	—
	(ii) With Solar Power	0	34	-7	27
	(iii) With Primary Batteries	—	—	—	—
	(b) No. of Signals	-68	213	-40	173
	(i) With Conventional Power (Nos.)	0	0	0	0
	(ii) With Solar Power (Nos.)	-68	213	-40	173
	(iii) With Primary Batteries	—	—	—	—
27.	LED Lit MACL Signals (Nos.)				
	(a) Stations	7	142	72	214
	(b) Signals	84	1,840	806	2,646
	(c) Aspects	2,607	7,411	3,725	11,136
28.	Triple pole Signal lamps (Nos.)				
	(a) Stations	-61	289	-165	124
	(b) Signals	-1,331	2,925	-1,592	1,333
	(c) Aspects	-3,270	7,821	-4,075	3,746
29.	Calling-On Signals (No. of Stns.)	2	379	3	382
30.	Data-loggers (Total)				
	(i) Stand Alone (Nos.)	3	65	-26	39
	(ii) Networking Mode (section Nos.)	70	244	115	359
31.	Integrated Power Supply (No. of stns.)	5	88	35	123
	(i) SCR Based (No. of stns.)	0	0	0	0
	(ii) SMPS Based (No. of stns.)	5	88	35	123
32.	Point Machines (Nos.)				
	(i) IRS Type	366	4,784	316	5,100
	(ii) Siemens Type	0	0	0	0
	(iii) Clamp Type	0	0	0	0
	(iv) Other	-95	91	0	91
33.	Batteries (Nos.)				
	(a) (i) 2V Cells 40 AH	1,826	3,066	1,162	4,228
	(ii) 2V Cells 80 AH	-3110	26,480	-224	2,6704
	(iii) 2V Cells 120 AH	354	11,574	531	12,105
	(iv) 2V Cells 200 AH	1,752	8,693	12,70	9,963
	(v) 2V Cells 300 AH	245	4,666	1,122	5,788
	(vi) 2V Cells 400 AH	281	8,622	476	9,098
	(vii) 2V Cells 500 AH	—	—	—	—
	(b) 2V Cells 400 AH	-1,493	61	-6	55
34.	ZI&TUS	9,99,795	36,85,116	1,19,709	3,8,04,825
35.	Total Route KMS on Railway	—	5,098.07	4.05	5,102.12
36.	Total Track KMS on Railway	—	6,759.53	29.64	6,789.17

5. Signal Equipment Failures

Sl. No.	Signal Failures	Number of Failures (As per USF)			
		Previous		Current	
		Year 2009-10	Year 2010-11	Year 2009-10	Year 2010-11
I. On Signal Account :—		Nos.	%	Nos.	%
(a) In colour light Signalling area		4,145	58.05	4,626	61.98
(b) In semaphore signalling area.		147	2.06	132	1.77
Sub-Total		4,292	60.11	4,758	63.75
II. On Account of others :—					
1. Operating Department		593	8.31	524	7.02
2. Mechanical Department		13	0.18	12	0.16
3. Engineering Department		986	13.81	979	13.12
4. Electrical Department		135	1.89	127	1.70
5. D. O. T.		165	2.31	84	1.13
6. Miscrchant		205	2.87	192	2.57
7. Miscellaneous		751	10.52	788	10.56
Sub-Total		2,848	39.89	2,706	36.25
Total (I + II)		7,140	..	7,464	..

The percentage is worked out based on the grand total number of signal and interlocking failures both on S. & T. account and other account 7464.

6. S & T Workshop—Podanur Narrative report for the year 2010–11.

Introduction:

Signal and Telecommunication Workshop/Podanur was set up on 9.4.1958 to serve as manufacturing - cum repair unit for Signal Equipments. Initial activities were confined to manufacture of Mechanical Signaling Items like Lever Frames, Levers and Accessories. Subsequently the repairing and overhauling of Electrical Signal Reversers, Single Line Block Instruments and Electro Mechanical Signalling Equipments like Shelf Type Relays were taken up for production. Now a day this workshop has grown in to a major manufacturing unit for Signal and Telecommunication products and supplies the same to the entire Indian Railways.

The workshop is managed by CWM with a team of Officers comprising 6 S & T. Officers, 2 Stores Officers, One Accounts Officer, and one Personnel Branch Officer.

Development of Signalling Relays and Electronic Axle Counters.

Gradually the production of Staff Type Relays has been dispensed with and production of modern Signalling items like Q Type Relays, Axle Counters, Electronic Times, Control Panels etc. were taken up for production in this work shop with complete indigenous components, which has helped in the commissioning of Modern signalling like Route Relay and Control panel interlocking in various Railways.

Production Items:

Presently the workshop is producing Signalling Relays, Control Panels, Double Line Block Instruments, Tokenless Block Instrument, to suit Non-RE, Electrically Operated lifting Barrier Gates, SSD Axle Counters, IRS Type Point machines, Polarised Relay, Electronic Timers etc. The Work shop has an auxiliary unit at Perambur/Chennai. The Perambur Unit takes up the overhauling of SGE Block Instruments and FM Diado Block Instruments which are installed in throughout Southern Railways. Apart from this the Perambur Unit also takes up the assembly work of GRS Apparatus Case, wiring of TLB Instruments, assembly of condenser unit, Battery Charging in addition to some other Misc. Works.

Production Growth & OUT-Turn :

The Work shop progressively registered a spectacular growth in the manufacture of various types of sophisticated signalling equipments for meeting the demands of Indian Railways in the commissioning of new signalling projects and replacement works.

The combined annual out turn of S & T Workshop/Podanur and S & T Workshop/Perambur is in the order of Rs. 65.28 Crores for the year 2010 – 11, which is 4.86% higher than that of previous year 2009 – 10. Progressive growth in the outturn of the workshop can be seen from the figures given below :

Details of important items produced in the workshop from 2005 – 2006 to 2010 – 2011 are furnished below :

Sl. No.	Description	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
1.	Q Type Plug in Type Signalling Relays	53010	56250	57200	55650	65000	74007
2.	IRS Point machine	3322	3149	2575	2480	2300	2700
3.	Token Less Block Instrument (Push Button Type)	184	328	521	650	700	720
4.	Double Line Block Instrument	86	100	76	120	138	140
5.	Control panel	65	58	54	57	62	60
6.	Polarised Relay	300	300	149	269	189	225
7.	Relay rack	208	265	296	243	60	0
8.	GRS App cases	1331	765	1791	970	1250	1170 +220
9.	SSDAC	0	0	0	0	22	0

Details of Staff strength and Out turn per employee are as follows :—

Year	Out turn in Crores of Rs.	Staff strength	Outturn per employee (in lakhs of Rs.)
2004–05	31.50	789	3.9
2005–06	30.95	786	3.9
2006–07	34.36	865	3.9
2007–08	35.72	869	4.1
2008–09	41.75	848	4.9
2009–10	60.39	815	7.4
2010–11	61.54	768	8.0

The out turn per employee for the year 2010 – 11 is 7.5% more than that of all out turn for the previous year.

INCENTIVE SCHEME:

The Incentive Scheme was introduced in the workshop on 1st August 1963. An average of 617 staff per month have been covered under Incentive Scheme during the year 2010 – 2011.

QUALITY CONTROL:

This workshop is an ISO 9001:2008 Certified Unit.

The pride of the workshop lies in its capacity to produce supplicated signalling products to high standard of quality. This workshop has got ISO 9001:2008 Certification for all Sections including Administrative Office.

As per the Quality Policy, this workshop is committed to manufacture and supply safety signaling equipments of consistent quality by continuous improvement. As a result a lot of improvements were made and new Fixtures were introduced in the production of Relays, Token less Block Instruments, Point Machines etc. These measures have reduced the rejection rate considerably and improved the reliability of items being production in the workshop.

Developmental activities:

Prototypes of the following new items have been developed in this workshop and the samples are under Type Approval/Trial Tests. :-

1. Push Button Token less Block Instrument to suit RE Area.
2. Single Section Digital Axle Counter (SSDAC)
3. QSPA1 8F/4B AC Immune Relay.
4. QBA1 6F/6B, AC Immune DC Biased Relay.
5. QTA2 2F/1B, AC Immune Track Relay.
6. Point Machine (220mm. stroke), suitable for thick web switches.
7. LED Signalling Units with HMU. QT2 Plug In Type Relay 2F/2B
8. QT2 Plug In Type Relay 2F/2B
9. QECX Relay, AC Lamp Proving for 110V AC LED Signal Lamp.

This workshop is also planning to develop the following Electronic Items in the Financial Year 2011-2012 as per relevant Specifications :—

1. FM Diado block Instrument.
2. Integrated Power Supply System.
3. Road Warning Signals
4. Pre Wired Location Boxes for LC Gate.
5. Electronic Timer 30 seconds

COMPUTERIZATION IN S&T WORKSHOP/PODANUR:

All the Shops and Sections of S&T workshop and Associated Offices are provided with P.C. Systems and these are interconnected through LAN and in turn connected to the Rail Net.

Daily positions of production, material stock position, etc. are monitored through computers. All the activities in the Bills Section, Planning Section, Drawing Office, Personnel Branch, ISO Section, Inspection Department, Budget Section, Stores Section, Marketing Section, Progress Section, General section are being done through computers only. It is planned to issue Privilege Passes, Post Retirement Complementary Passes, Duty Passes etc. through the computers in the near future by suitably installing the software.

OUT SOURCING OF SUB ASSEMBLIES & COMPONENTS:

To meet the growing need of vital components being produced in this workshop, certain sub assemblies and components of Q Relays, Point Machines and Electronic Axle Counters are out sourced apart from in-house manufacture. Stock Items are procured through Stores Department through procurement Memo System.

BASIC TRAINING CENTRE:

A Basic Training Centre is functioning attached with S&T workshop/Podanur from 29.4.1993. Courses for Non-ITI Apprentice Fitters (Fresher), / Ex. ITI, Fitter, Turner, Welder and Machinists as per Apprentices Act. 1961 are conducted here. Recently Written Test for the selection of fresh batch was held on 14.5.2011 and the selection process is under progress.

Renovation work of the Railway Institute/Podanur has been completed to carry out various recreation activities. New Indoor Courts for Tennis, shuttle cock, Badminton etc.. and playground for playing Lawn tennis, Shuttle Badminton, Cricket, Kabbadi etc. have been laid for the benefit of the members of the Institute.

S & T WORKSHOP/PERAMBUR:

S&T / Workshop/PER is a repair workshop. The workshop is functioning under the Control of CWM/S & T/ PTJ. The major activity of the workshop is the overhauling of SGC Double Line Block Instrument and FM Type Diado Block Instrument. Self Type Relays, etc. Apart from these overhauling activities this workshop manufactures Electronic Gate Warning Bell, Annunciator, GRS apparatus Cases, Wiring of TLB Instrument, Assembly of Electronic Timers 60/120 Sec., etc. Initial Charging of Batteries used in Signalling and A. C. Locos also are under taken in this workshop.

This is a Non-incentive workshop. The workshop is managed by SSE and AWM/S & T/PTJ is overall in-charge and he is visiting the workshop twice in a week to look after the activities of the workshop. The out turn of S & T Workshop/PER in this Financial Year by entrusting additional work such as Gate Warning Signals for road Users. E Type Lock, Cable Route Markers, etc. it is also proposed to take up the work of manufacture of FM Type Diado Block Instrument in this workshop.

ZONAL S & T TRAINING CENTRE AT PODANUR:

The Zonal S & T Training Centre is under the Administrative Control of CWM/PTJ. It is headed by Principal (SSTE/TC/PTJ). The Faculty of the Training Centre comprises of ASTE, 8 Instructors and 3 Demonstrators.

S & T Training Centre/Podanur is functioning mainly for imparting training to ESMs/MSMs/TCMs on Safety related courses. Staffs are being trained through e-learning with video conference connected to IRISE/Secunderabad and other Training Institutes. Several development works are being carried out at the Training Centre. In view of more number of ladies taking part in the training a separate Ladies Hostel is being constructed for the convenience of lady staff undergoing training. A Seminar Hall is also under construction under LAW Programme.

Various courses viz. Initial, Refresher, Promotion and Equipment courses are conducted in the Training Centre for Southern Railway and South Western Railway.

Details of Trainees who had Undergone Training During 2010-11 at S. & T.—Training School—Podanur

Sl. No.	Name of Courses	No. of Courses Pro-grammed	No. of courses conducted	No. of seats allotted courses conducted	No. of Staff trained
I. Initial Courses					
1	Initial course for promoted JEs./Sig.	3	3	27	27
2	Initial course for promoted JEs./Tele	2	2	16	16
3	Initial course for App. ESMs	6	6	182	182
4	Initial course for App! TCMs	2	2	12	12
5	App. JE	1	1	3	3
6	Promoted JE/Electrical	1	1	15	15
	Total	15	15	255	255

Sl. No.	Name of Courses	No. of Courses Pro-grammed	No. of courses conducted	No. of seats allotted	No. of Staff trained
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II. Refresher Courses

1	Refresher course for ESMs	11	10	200	320
2	Refresher course for TCMs	6	6	78	82
Total		17	16	278	408

III. Foundation Courses

1	Foundation course for ESMs	12	12	227	227
2	Foundation course for TCMs	3	3	55	26
Total		15	15	282	253

IV. Pre Promotion Course

1	Pre Promotion Course Signal	3	3	30	30
2	Pre Promotion Course Telecom	4	4	15	15
3	Pre Promotion Course for group C to B	1	1	8	8
Total		8	8	53	53

V. (a) Equipment Course (Signal)

1	Block Instrument Course	6	5	110	79
2	Point Machine Course	2	1	10	7
3	Signalling in RE Course	2	2	20	14
4	Universal Axle Counter	2	2	20	14
5	RRI Minor Yard	6	5	50	59
6	Induction to unskilled	3	2	20	49
7	Automatic Signal	1	1	10	4
8	Data Logger	1	1	10	6
9	Electronic Interlocking	1	1	10	6
Total		24	19	250	229

V. (b) Equipment Course (Telecommn.)

1	Train traffic control RE/ Non RE	6	5	50	18
2	PA systems VHF, PRS, IVRS & CCTV	8	8	80	39
3	Optical fibre communication	5	5	50	20
4	PDH	6	6	60	30
5	Electronic Exchange	5	5	50	25
6	Data Communication	6	6	60	32
7	Splicing, OFC cable, Quad	4	4	40	19
8	Railnet, FOIS	5	5	50	35
9	Induction to unskilled	3	3	39	25
Total		48	47	479	243

VI. Common Courses

1	Yoga & Meditation	12	8	85	25
2	Computer appreciation	7	7	70	31
Total		19	15	155	56
Grand Total		146	135	1752	1497

Sl. No.	Name of Courses	Seats allotted	Seats Utilised	% Of Utili-sation
1	Initial Course	255	255	100%
2	Refresher Course	278	408	147%
3	Foundation Course	282	253	90%
4	Pre Promotion Course	729	472	65%
5	Equipment Course	155	56	36%
6	Common Course	155	56	36%
Total		1752	1497	85.44%

7. Staff

(i) Total strength of staff cadrewise separately for Signal and Tele-communication staff in respect of Inspectors and Artizans 2010-11.

Sl. No.	Category	Total Nos.
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(a) Signalling—

(1) Signal Engineers	351
(2) Electrical Signal Maintainers	1,527

(b) Tele-communication—

(1) Tele-commn. Engineers	241
(2) Tele-commn. Maintainers	585
(3) Wireless Instrument machanics	135

(ii) Total No. of Signalling and Tele-communication staff recruited in respect of Inspectors and Artizans.

(a) Through Railway Recruitment Board

(1) SE/Sig.	10
(2) JE/II/Sig.	10
(3) SE/T	10
(4) JE/T	17
(5) Technician/Gr. II/Signal	58
(6) Electrical Signal Maintainers/Gr. III	71
(7) Tele-communication Maintainers/Gr. III	42
(8) Wireless Instrument Mechanics	—

(iii) Total No. of staff trained through Zonal Training Schools/Centres category wise during 2010-11.

Sl. No.	Name of the courses	No. of courses conducted	No. of staff trained
(1)	Refresher Course	16	408
(2)	Initial Course	9	197
(3)	Equipment Course	66	472
(4)	Foundation Course	15	253
(5)	Pre-promotional Courses		
	(a) ESMs/MSMs	7	45
	(b) JE to SE	1	8
	(c) Group 'C' to Group 'B'	6	58
(6)	Other courses - Computer course	7	31
	Other courses - Yoga course	8	25
Total		135	1497

(iv) Signal and Tele-communication Units for 2010-11

Division	DISTUS
Chennai	3,65,099
Salem	1,45,880
Palakkad	1,11,380
Thiruvananthapuram	1,53,658
Tiruchchirappalli	1,56,782
Madurai	1,02,566
Total	10,35,365
ZISTUS	38,04,825

X STORES

1. Organisation of Stores Department

The Stores department is taking care of Material management activity and fully committed to arrange adequate quantity of materials, of right quality in time. To meet these 24 stores depots are functioning, spread over Southern Railway, at present to cater to the requirements of various Departments. The Stores department is arranging 6798 stocked items required on regular basis, apart from procuring high value Non-Stock items through Headquarters and materials of smaller value through field units.

2. The details of Stores depots are as under:—

2. 1 General and Divisional Stores Depot

Sl. Nos.	Name of the depot	Brief function	No. of items stocked	Issue value 2010-2011 (Rs. in Crs.)	Staff Strength Group 'C' & 'D'
1	General stores Depot, Perambur (00).	Supply of materials required for Chennai division, Major scrap depot of Southern Railway, Supply of informs throughout Southern Railway and. Supply of books and forms & money valued items to Southern Railway, South Western Railway & ICF.	710	184.71	C – 329
2	General stores Depot, Golden Rock (24).	Supply of materials required for Trichy division	455	4.24	C – 45
3	Divisional Stores Depot, Erode (13).	Supply of materials required for Salem, & Palakkad divisions.	389	4.84	C – 17
4	Divisional Stores Depot, Madurai (14).	Supply of materials required for Madurai division.	376	4.34	C – 36
5	Divisional Stores Depot, Quilon (20)	Supply of materials required for Trivandrum division.	409	6.58	C – 15
6	Divisional Stores Depot, Palakkad (07).	Supply of materials required for Palakkad division.	279	3.02	C – 9
7	C&W material maintenance depot, Basin Bridge (25).	Supply of C&W materials required for Chennai division.	130	4.22	C – 16

2. 2 Depots attached with Diesel/Electric Sheds :

Sl. Nos.	Name of the depot	Brief function	No. of items stocked	Issue value 2010-2011 (Rs. in Crs.)	Staff Strength Group 'C'
1	Diesel stores depot, Erode (08).	Supply of materials required for Diesel Shed, Erode.	1085	15.99	C – 37
2	Diesel stores depot, GOC (18)	Supply of materials required for Diesel POH Shed, Goldenrock.	1563	28.27	C – 19
3	Diesel shed / stores depot (19).	Supply of materials required for "Diesel Shed" / Goldenrock.	1050	9.95	C – 42
4	Electric loco stores depot, Arakkonam (21).	Supply of materials required for Electric Loco Shed /Aroakkonam.	745	9.02	C – 24
5	Electric loco stores depot, Erode (22).	Supply of materials required for Electric Loco Shed /Erode.	657	6.98	C – 21
6	Diesel stores depot, Ernakulam (23).	Supply of materials required for Diesel Loco Shed, Ernakulam.	931	6.35	C – 19
7	Diesel stores depot, Tondiarpet (26).	Supply of materials required for Diesel Loco Shed, Tondiarpet.	786	3.56	C – 19

2.3 Depots attached with Workshop :

Sl. Nos.	Name of the depot	Brief function	No. of items stocked	Issue value 2010-2011 (Rs. in Crs.)	Staff Strength Group C
1	Loco works, PER (01).	Supply of materials required for "Loco Works", Perambur.	1446	41.57	C – 114
2	MSD/GOC (02)	Supply of materials required for "Mechanical Workshop", Golden Rock.	846	71.32	C – 257
3	C & W works Perambur (28).	Supply of materials required for "Carriage Works," / Perambur.	1159	103.44	C – 108
4	BS/EWS/AJJ (09)	Supply of materials required for "Engineering Workshop" /Arakkonam.	162	4.61	C – 22

2.4 EMU Sheds :

Sl. Nos.	Name of the depot	Brief function	No. of items stocked	Issue value 2010-2011 (Rs. in Crs.)	Staff Strength Group C
1	TSD/Tambaram (10)	Supply of materials required for "Traction Depot, Tambaram.	602	5.89	C – 27
2	TSD/Avadi (27)	Supply of materials required for "Traction Depot, Avadi.	558	7.68	C – 25

2.5 Depots attached to Manufacturing shops :

Sl. Nos.	Name of the depot	Brief function	No. of items stocked	Issue value 2010-2011 (Rs. in Crs.)	Staff Strength Group C
1	Signal Stores depot, Podanur (11).	Supply of materials required for "Signal & Telecom Workshop", Podanur.	260	114.27	C – 59
2	Wagon Production, Golden Rock (17).	Supply of materials required for "Wagon Production", Workshop Golden Rock.	Nil	0.14	C – 57

2.6 PRINTING PRESS / ROYAPURAM :

There are two printing presses in Southern Railway to meet the requirements of books and forms and money-valued items like tickets, EFTs, etc. as under :—

- General Printing Press at Royapuram, Chennai.
- Ticket Printing Factory at Trichy.

As per the extant instructions of Railway Board, the printing work of South Western Railway is also be undertaken by these printing presses.

2.7 Modernization of Printing Press : —

All the following machines have been sanctioned by Railway Board under modernization of General Printing press vide Pink book reference No.626 and 627.

Modernisation of General Printing Press*In Lakhs of Rs.*

Sl. No.	Description	Qty.	Cost	Allocation
1	Web Offset Ptg. M/c with one unit printing tower perfect or type with numbering and sheeting facility 24" x 34"	1	134.01	DRF
2	4 Colour sheet fed Offset printing M/c. 25" x 36".	1	125.42	DRF
3	Offset printing M/c with multi colour and mono colour UTS / PRS tickets 4 units and back with perforation hole punching re-spooling facility.	1	960.00	CAP

2.8 The following are the M&P proposals valuing less than Rs. One Crore:

Sl.No.	Description	(In lakhs of Rs.)		
		Qty	Cost	Allocation
1	Web offset printing machine with one unit printing tower, perfect or type with numbering and sheeting facilities in 24"x34".	1	30.60	DRF
2	Multipurpose offset printing machine with 2 units with numbering along with zigzag folding of size 17"x24" are equivalent.	1	78.32	DRF
3	Single colour sheet fed offset Printing Machine 24"x34"	1	26.20	DRF
4	Single colour sheet fed offset Printing Machine 24"x34"	1	26.20	DRF
5	Programmable paper cutting machine	1	16.62	DRF
6	Programmable paper cutting machine	1	16.62	DRF
7	Plate exposure unit	1	4.64	DRF
8	Computer terminals with UPS and software required for printing purpose.	16	7.40	CAP
9	Laser printer	2	2.13	CAP
10	Plate processor unit	1	5.89	CAP
11	Single clamp perfect binding machine	1	5.67	CAP

2.9 PRINTING OF TICKETS , BOOK & FORMS :

Tickets are printed at Ticket Printing Factory at TPJ and Books Forms and Money value items are printed at Printing Press at Royapuram.

PRINTING POSITION OF TICKETS**(In Crores of Nos.)**

YEAR	TARGET	ACTUALS
2006 - 07	9.60	09.65
2007 - 08	9.60	08.68
2008 - 09	9.00	08.73
2009 - 10	9.00	05.79
2010 - 11	9.00	03.46

3.0 ISO CERTIFICATION :

Stores Branch Headquarters office along with 19 Depots & FA&CAO/S&W/PER are presently certified with the latest ISO certification standard of ISO 9001:2008 and Southern Railway is the first Zonal Railway to obtain ISO 2001-2000 certification for purchase office of stores headquarters along with associate finance in the year of 2002 itself and now it has been upgraded to ISO 9001-2008. This certification is valid upto August 2011.

Surveillance audit was conducted by BIS auditors in the Office of the Controller of Stores and FA & CAO/S&W/PER in August, 2010. Southern Railway to improve the quality management system and continually improve this effectiveness.

BIS faculty members conducted In-house training programme for 20 staff from 8 Stores depots and Officers of the Controller of Stores and Accounts Department, Ayanavaram, Chennai - 600 023 on 26th & 27th October 2010 at the Office of the Controller of Stores.

In this connection both Purchase Section and Non- Purchase Section in this Office have been issued revised working procedures.

Whatever the resources required are identified and discussed by the Officers in the management Review meetings in order to maintain the quality management system in the office of Controller of Stores and FA & CAO/S&W/PER for their respective sections / Depots.

4.0. MATERIALS MANAGEMENT INFORMATION SYSTEM (MMIS) :

4.1 .SMS : Indentors are being intimated through SMS on following occasions :—

- a. On Registration of Non stock demand
- b. Tender due date is assigned
- c. PO is released.

Similarly vendors are also intimated through SMS on release of Purchase orders.

4.2 e-bulletin : Initially bulletin books were dispatched to registered vendors through post and vendors were frequently complaining about non receipt of the same. Further around 75 days were given from the date of tendering to opening date. Southern Railway has introduced the system of *e-bulletin* where on the digital *e-book* is sent to all the registered vendors through *e-mail*. This has helped in reducing the tender opening time to 37 days and also ensure prompt receipt by vendors.

4.3. e-procurement-: First phase of *e-procurement i-e e-tendering* is successfully implemented and cent per cent is achieved during Feb'10. Preparatory work for second phase is under implementation.

4.4. e-auction : Southern Railway is one among 5 Zonal Railways selected by Railway Board for implementation of e-auction. This railway also conducted many mock *e-auctions* and 3 live.pilot *e-auctions* involving scrap purchasers. 10 purchasers got registered in the portal and 9 purchasers paid the pre paid EMD and participated in the live pilot *e-auctions*. This response for bidding was also encouraging.

4.5- Review of Implementation Progress MMIS- Purchase module of MMIS has been extended to purchase units at Podanur, Construction/Egmore. Out of six divisions, purchase module has been implemented in Chennai, Madurai, salem and Tiruchchirapalli divisions.

4.6 Sale Module - Sale module of MMIS is implemented at GSD/PER and CSSD/GOC. Under implementation at SSD/PTJ.

Depot module of MMIS is working satisfactory in all stocking depots.

5.0 Leveraging of Technology for Transparency : -

5.1 Materials Management Department of Southern Railway is regularly uploading the relevant information in our portal www.southernrailway.gov.in. The following contents are available on Southern Railway website – “www.southernrailway.gov.in” under “Stores Department” which is fulfilling the guidelines of Railway Board letter No. RBV 25/2006 dated 13-12-06.

- a) About stores department.
- b) Information pertaining to material management as per RTI Act.
- c) IT related subject like *e-procurement*.
- d) Auction program
 - (i) Down loadable auction catalogue
 - (ii) Sold details of previous auctions.
 - (iii) Year wise auction particulars.
- e) Advertised tenders (in case of manual tenders)
 - (i) Down loadable tender forms.
 - (ii) Terms and conditions.
 - (iii) Enclosure to Tenders if any
- f) For vendors
 - (i) Vendors registration form.
 - (ii) Trade group list
 - (iii) Status of vendor registration.
 - (iv) Approved vendor list of RDSO/ICF through links.
 - (v) List of registered firms along with registered Trade group.
- g) Purchase Orders valued above Rs. 20 Lakhs.(As per CVC format)
- h) Telephone Directory (P & T and railway) of Stores departments.
- i) Full details Purchase order valued above Rs.5 lakhs to Rs.20 lakhs.

5.2 Intranet: - Southern Railway stores RAILNET address is 10.185.80.93. Site is revamped with lot of additional features like :—

- Stock items search based on PL number, description.
- Provision to generate Stock Position Slip.
- Non-stock search based on Indent number, Consignee number, Demand number, division and department.
- Vendor information and performance.

6.0 STORES BALANCE (2010-11)

(Figs. in crores of Rupees)

	Maintenance	Works	Total
(I) Opening Balance			
Phy. stock without Adjustment	123.04	0.35	123.39
Adjustment	-0.15	0	-0.15
Stores Suspense balance	-4.99	0	-4.19
Total as per approx accounts	117.90	0.35	118.25
(ii) Receipts during the year	1213.33	0.19	1213.52
(iii) Issues during the year	1225.49	0.22	1225.71
(iv) Closing Balance			
Phy. stock without Adjustment	105.74	0.32	106.06
Adjustment	-0.15	0	-0.15
Stores Suspense balance	-30.17	0	-30.17
Total as per approx accounts	75.42	0.32	75.75

7.0 INVENTORY PERFORMANCE 2010-11

(Figs in Crores of Rs.)

1) Overall Balance without fuel as on 31.03.2011	Crs. -	23.69
2) Overall Balance with fuel as on 31.03.2011	Crs. -	41.53
3) Total Issues (without fuel)	Crs. -	770.75
4) Total Issues (with fuel)	Crs. -	1225.69
5) Turn Over Ratio (without fuel)	-	3.07%
6) Turn Over Ratio (with fuel)	-	3.39%

8.0 ECONOMY EFFECTED IN STATIONERY AND OTHER MATERIALS.

Stringent economy is enforced in the utilisation of stationery and other materials of general usage.

9.0 PURCHASE OF STORES

a). Purchase -Value of Railway Equipment and Stores 2010-11 (Attested by Finance and includes Track Materials also)

(Figs. in Crores of Rs)

1. Total value of equipment & stores	-	2469.21
2. Value of stores ordered through department of supply	-	7.20
3. Value of stores ordered through Railway Board	-	1080.46
4. Value of stores ordered by the Railway Direct.	-	1381.55

b). Details of purchases of Stores [2010-11]

Every year about 6013 stock orders and 985 non-stock orders are released by the Office of the COS and 13708 orders are placed by divisions.

(figures in crores of Rs.)

1. Materials imported direct	-	1.55
2. Materials imported through agencies in India	-	6.97
3. Total imported direct and through agencies	-	8.52
4. Indigenous materials	-	2460.69
5. Total imported and indigenous	-	2469.21
6. Percentage of items (4) over (5)	-	99.65%

c) Use of Khadi

Total value of Khadi articles during the year 2010-11 - Rs.2.25 crores

d). Purchase made from cottage and small scale industries:-

Value of purchases falling within the category of cottage and small scale industrial products during the year 2010-11 amounted to Rs.26.63 cr.

10. SUPPLY POSITION OF MATERIALS

a. General :— The supply position of materials was generally satisfactory.

b. Steel ::— Statement showing supply position of Pig Iron, steel, etc.

(2010-11)

(figure in Metric Tons)

Sl. No.	Item	Quantity indented during the year	Stock at the beginning of the year	Receipts during the year	Issues during the year
1	Pig Iron	275.500	18.002	13.190	22.100
2	Structural	650.500	256.880	540.357	523.000
3	Plates	2397.000	260.917	2312.000	2179.000
4	Sheets	1358.750	101.323	1287.000	1330.000
5	Spring Steel	631.000	44.705	631.000	639.000
6	Tool Alloy & Steel Plates	—	—	—	—

11. DISPOSAL OF SCRAP - During 2010-11, Southern Railway generated a revenue of Rs. 347.407 Crores, by sale of various Scrap items :—

Category of Scrap	Balance as on 01.04.10		Receipts during the year		Scrap Disposed off during the year		Balance as on 01.04.2011	
	Qty/ MT	Value (In Cr.)	Qty/ MT	Value (In Cr.)	Qty/ MT	Value (In Cr.)	Qty/ MT	Value (In Cr.)
I. Ferrous Scrap								
a. P. Way scrap	2476	4.44	109204	226.35	105830	218.40	5850	12.39
b. Other than P. Way	322	0.63	31721	64.85	31845	65.08	198	0.40
II. Non-ferrous Ccrap.								
	94	0.74	3041	26.4	3110	28.97	25	0.23

III. Rolling Stock	Qty/ No.	Value (Rupees in crores).	Qty/ No.	Value Rupees in crores).	Qty/ No.	Value Rupees in crores).	Qty/ No.	Value Rupees in crores).
a. Wagon	70	1.59	865	18.85	901	19.70	34	0.74
b. Coaches	53	2.07	91	3.57	132	5.17	12	0.47
c. Locos	5	1.33	9	0.50	14	1.83	0	0

IV. Misc. Scrap	Qty/ MT/No.	Value (Rupees in crores).	Qty/ MT/No.	Value Rupees in crores).	Qty/ MT/No.	Value Rupees in crores).	Qty/ MT/No.	Value Rupees in crores).
Misc Scrap(*)	113	0.13	4613	6.65	4290	5.90	636	0.88
Nos.	135	0.36	844	2.09	938	2.35	41	0.10

(*) – Misc Scrap includes T&P items, Machineries, paper, glass, etc – some of which is quantified in Nos and some others weighed in MTs.

Scrap Reclamation:

Description	Qty / MTs	Value (Rupees in Crs)
Ferrous Scrap	1026	2.12
Non- Ferrous Scrap	215	3.45

12. SUPPLY OF UNIFORMS

Clothing Factory: This is functioning at General Stores Depot, Perambur caters to the uniform requirement of Southern Railway. Depending upon the scales uniforms are issued to the eligible staff and compliance is as under:-

Season	No. of garments indented for	No. of garments actually supplied	% of compliance
Summer'2010	219925	219925	100

In addition, 42,000 nos. of ready made garments and 35,000 bedroll items were issued during 2010-2011.

13. RECEIPT AND INSPECTION OF STORES

(a) Statistics of working of Receipts and Inspection Department of this Railway is as under :—

	2008-09	2009-10	2010-11
1. No. of Staff for clerical and supervision work (Nos.)	93	108	105
2. Yearly Expenditure of staff (Rs. in Lakhs.)	430.54	495.04	840.27
3. Value of stores inspected/received (Rs. in Lakhs)	60999.33	53973.12	63316.23
4. Cost of receipts and inspection per Rs 100 of value of stores.	0.71	0.92	1.33
5. Receipt notes granted per clerk per month ..	40	40	40

(b) Stores Depot**(1) Accounts and departmental Stock Verification.**

	2008-09	2009-10	2010-11
1. Percentage of items verified with no discrepancy.	99.21	99.57	99.31
with discrepancies			
(a) Upto limit of Rs.50/-	0.25	0.19	0.04
(b) Upto limit of Rs.1000/-	0.26	0.09	0.27
(c) Above the limit of Rs.1000/-	0.28	0.15	0.33

(2) Loss and gain brought to light as a result of departmental and Accounts verification (Stores Depots only)

Year	Loss	Gain	(Rs. in Lakhs)	
			Net Gain	Net Loss
2006-07	1.66	0.78	..	0.88
2007-08	0.02	2.80	2.78	..
2008-09	1.61	2.63	1.02	..
2009-10	4.94	5.54	0.60	..
2010-11	0.38	0.53	0.15	..

(3) Unit cost of Issues.

	2008-09	2009-10	2010-11
1. Value of stores issued during the year from the depots (Rs. in lakhs).	65072.12	70544.5	68514.83
2. Pay and Allowances of depot staff (Rs. in lakhs).	1027.27	1238.47	1474.13
3. Cost of making issues worth Rs. 100/-	1.58	1.75	2.15

(4) Availability of items:

(Figs. as on 31-3-2011)

1. Total No. of stocked	..	..	..	..	6798
2. No. of items available	..	..	..	..	6698
3. Percentage	..	..	..	..	99%

(5) Overstock and surplus stores

(Value in lakh of Rs.)

Details	As on 31-3-2010	As on 31-3-2011
1. Surplus	0.99	0.12
2. Over Stock	52.33	101.22

14. Printing Press**Printing of Tickets, Books & Forms****(a) Production** :— The total out-turn of Press/RPM of the year was as under :—

Items		Value of Books printed in terms of Lakhs	Value of Card tickets printed in terms of Lakhs	Total
Work done for S.Rly.	.. ..	1119.00	150.32	1269.32
Work done for other Rlys.	.. ..	20.00	0.78	20.78
Total	..	1139.00	151.10	1290.10

(b) Paper consumption for Press during the year 2010-11

For general stationery Printing Forms and Books , for stations and ticket offices, Boards – 623 MTs.

(c) Out-turn of Forms, money value books and card tickets. –

Particulars	Books, Forms & Money value Items (In terms of Books)	Card Tickets printed in Numbers
i) Work done for S.Rly		
2006-2007	56,09,970	9,52,50,000
2007-2008	57,18,841	8,66,84,000
2008-2009	20,08,626	8,29,42,250
2009-2010	23,73,255	5,75,84,300
2010-2011	44,55,000	3,46,33,450
ii) Work done for others Rlys.		
2006-2007	1,81,321	12,50,000
2007-2008	2,18,545	1,20,111
2008-2009	1,33,737	7,32,750
2009-2010	1,58,740	5,10,350
2010-2011	1,81,500	1,78,200

15.Shipping and Imports :

During 2010-11, 1544.920 MTs of imported consignments have been received, the details of which are as under :—

Sl.No.	Description	Qty. in Nos.	Qty. in MT.	No. of containers
1	Axles for BOX ' N' wagons	2400	1309.200	75 X 20'
2	Solid wheels for Metro Coaches	664	235.720	13 X 20'

16. Right to Information Act .

66 Nos. of cases where dealt during 2010-11 for which required information was given .



XI. MEDICAL

Brief of Medical Department

Medical Department of this Railway provides comprehensive health service, both preventive and curative service to the Railway employees and their families/dependents and retired employees including the employees of Integral Coach Factory, Chennai. Total number of Employees presently working in Southern Railway are 1,19,227 and 54,675 retired employees have also registered in the RELHS for availing the health facilities. The total number of Railway beneficiaries are 5,96,135.

The Head quarters Hospital, Perambur which is a tertiary care referral Hospital is one of the pioneer institutions for Cardiology and Cardio-Thoracic Department. This hospital has got 505 Beds for rendering in patient care to the Railway beneficiaries. It contains all the basic specialty departments viz. Medicine, Surgery Obstetrics & Gynaecology, Chest, Radiology, Paediatrics, ENT, Skin, Psychiatry, Dental etc. This hospital has also got super specialty departments of this hospital not only cater to the needs of Southern Railway beneficiaries but also to the beneficiaries of other railways also.

The total bed strength of this Railway for providing inpatient care is 1236. 42 Health Units are functioning at different stations on this Railway and there are 13 lock-up dispensaries. A total of 217 doctors, 21 Group B Officers consisting of ANO, AHO, AHEO, APO and APHO. About 1932 para medical staff consisting of 514 Nursing Personnel and other para medical categories are also working in this Railway.

5 Divisional Hospitals, viz. Arakkonam- with 50 beds
Golden Rock- with 197 beds
Madurai - with 115 beds
Palakkad - with 106 beds
Trivandrum -with 54 beds

4 Sub-Divisional Hospitals, viz. Villupuram -with 26 beds
Erode- with 30 beds
Podanur- with 28 beds
Shoranur- with 24 beds

1 Workshop Hospital Integral Coach Factory with 101 beds

Lock up Dispensaries, viz: Kadaperi, Kumbakonam, Thiruthurai, Poondi, Needamangalam, Ariyalur, Athur, Chinnasalem, Chidambaram, Nagappattinam, Mannaparai, Milavittan, Pattukottai, Rameswaram.

Spart at MAS and ARME Scale I and Scale II in the following locations :—

ARME Scale I			ARME Scale II		
Division	Broad Gauge	Metre Gauge	Broad Gauge	Metre Gauge	Narrow Gauge
Chennai	Jolarpettai, Chennai Central		Arakkonam Katpadi Sullurpet	..	..
Golden Rock	Tiruchchirappalli Villupuram Tiruvarur		Virudhachalam Mayavaram Tiruvannamalai	..	
Madurai	Madurai Sengottai		Dindugul Karaikudi Manamadurai Mandapam Virudhunagar Tirunelveli Tuticorin Palani	..	
Palakkad	Mangalore Shoranur		Cannanore Calicut Palghat		Pollachi
Trivandrum	Ernakulam Quilon		Nagercoil, Quilon Kottayam Alleppey Trichur		
Salem	Erode		Podanur Salem, Karur		Coonoor

42 Health Units, viz.

Chennai Divn. : 11- Jolarpettai, Katpadi, Haffieldpet, Avadi, New Genl. Office, Chennai Egmore, Tondiarpet, Royapuram, Tambaram, Chenglepet, Sullurpet.

Tiruchchirappalli Divn. : 8- Tiruchchirappalli Junction, Trichy Fort, Srirangam, Virudhachalam, Tiruvannamalai, Mayiladuthurai, Tiruvarur, Tanjore.

Madurai Divn. : 9- Dindugul, Mandapam, Palani, Karaikudi, Sengottai, Tuticorin, Manamadurai, Tirunelveli, Virudhunagar,

Palghat Divn. : 4- Mangalore, Cannanore, Calicut, Pollachi

Trivandrum Divn. : 6- Ernakulam, Quilon, Kottayam, Nagercoil, Trichur, Alleppey.

Salem Divn. : 4- Salem, Mettupalayam, Karur, Coonoor.

Statistics

Man Power

	Staff Strength	On Roll	Vacancies
Doctors	217	176	41
Nurses	514	459	55
Other paramedical	1,932		

From: April-2010 to March-2011

Health Care :

Total OPD Nos.	..	23,41,631
Total IPD Nos.	..	41,269
Major Surgeries	..	5,510
Special Surgeries	..	1,605
Minor Surgeries	..	4,377

Industrial Health :

Total No. of RMCs Issued	..	1,16,236
Total No. of Man- days loss	..	14,57,609
Man-day's lost due to IOD/ HOD	..	79,671

System Improvement

Perambur

- I. Patients feedback system introduced at PER
- II. Streamlining of the procurement process by revision of SOP.

Perambur Hospital

Railway Hospital, Perambur is a 505-bedded hospital. This is a referral hospital not only for the beneficiaries of Southern Railway, but also to the whole Indian Railways for Cardiology, Cardio-Vascular surgery and Nephrology for which patients are referred from all over Indian Railways.

National Board of Examinations has recognized this hospital for training of D.N.B candidates in Medicine, Cardiology, Surgery, Obstetrics & Gynaecology, Paediatrics, ENT, Anaesthesia, Cardiovascular Surgery, Family Medicine and Orthopaedics. It is also recognized by the Royal College of Surgeons, Edinburgh, for Part II FRCS examinations.

Hospital information management system is available in this hospital. At present we have computers installed in various units of the hospital with a central machine with Magnum Module. Computerisation is being done in other areas of work of the hospital. The data are used not only for clinical and research work, but also for inventory control, office automation, drug and equipment stores and other auxiliary units etc.

1. (a) Cardiac Unit of RH/PER

The department of Cardiology and Cardiac Surgery is an all India Referral Centre for all types of Heart diseases. In the year 2010-11, 713 Open Heart Surgeries and 39 closed Heart Surgeries (this includes various surgical procedures for coronary artery diseases, congenital heart disease and rheumatic heart disease) were done. About 341 PTMC, PTCA, PVP, PTR and 1,624 Cardiac Catheterisation and Coronary Angiography were done last year.

A very active teaching programme exists with regular seminars, journal reviews and cardiovascular surgery lectures in the departments of Cardiology and Cardio Vascular surgery.

This is an all India referral center for cardiac evaluation and management. This department undertakes treatment of all types of cardiac procedures like cardiac cathetrization, coronary angioplasty, pulmonary valvuloplasty, permanent pacemaker implantation, electrophysiology study, etc. The department has got almost all the equipment for treating cardiac patients, including two cath Labs, IVUS, 2D echocardiogram with colour Doppler system, holter monitoring system, treadmill machines, etc.

We have established a "Link Programme" with the Institute of Child Health, London for knowing advancement in the various techniques of Paediatric Cardiology and Cardiac Surgery.

(b) Department of Cardiac Surgery :

The department of cardiac surgery performs about 1000 open-heart surgeries a year. The spectrum of work includes coronary artery bypass grafting, all types of valve repairs and replacements, congenital corrective surgeries, etc. In the recent years, beating heart surgery is very popular avoiding usage of heart lung machine.

2. Department of Nephrology

Full-fledged Nephrology unit, which is a referral center for the Indian Railways, is functioning. All therapeutic measures, short of transplant are being done here. However, a transplant programme, in collaboration with private hospital is available. On an average 6,062 haemodialysis, 32 peritoneal dialysis, 27 renal biopsies, 12 transplants were performed during the year. Facilities for continuous ambulatory peritoneal dialysis (CAPD) also exists.

3. Department of General Medicine

This department has a total of 55 beds, inclusive of 10 ICU beds and 7 semi ICU beds. The modern intensive care unit is known for its quality of work particularly for managing emergencies. The specialized services provided are ultrasound for ward patients, endoscopy, bronchoscopy, thoracoscopy, bronchoalveolar lavage and transbronchial biopsy. EEG, renal biopsy, spirometry, ventilator assistance, pacemaker facility, etc.

Well-equipped intensive care unit with non-invasive and invasive diagnostic techniques are available for effective management of medical cases. 860 endoscopies were performed during the year.

4. Department of General Surgery

This department is now a major wing of the hospital, backed by the latest equipment and a dedicated team of surgeons. There has been a vast increase in the quality and quantity of operations done in the recent years.

Latest sophisticated equipments like contact laser, fibre-optic endoscopes and laparoscopic surgical equipments backed up by efficient team of qualified surgical expertise, are available in this Department. All types of surgeries are carried out by our eminent surgeons. This department is recognised by National Board Examinations for Post Graduate degree in General Surgery.

5. Department of Obstetrics & Gynaecology

The Obstetrics & Gynaecology department has got 52 beds in its wards. About one thousand deliveries are conducted every year. The department is well-equipped and offers good quality treatment to the patients.

6. Department of Paediatrics

Department of Paediatrics has got 60 beds in its wards. This department is well-equipped and offers good quality treatment to the patients. Neo Natology ICU is also available.

7. Department of Psychiatry

A full-fledged department of Psychiatry is functioning in this hospital.

8. Department of Orthopaedics

The department of Orthopaedics has been upgraded and all orthopaedic surgeries including spinal surgery, hip and knee replacements are being done in this department.

9. Department of Otolaryngology

The ENT department has got full-fledged endoscopic facilities, microlaryngeal surgical facilities and Micro Ear surgery facilities. Airway Laser surgical procedures are regularly done.

10. Department of Ophthalmology

Intra-ocular lens implantation and other routine procedures are done in Ophthalmology. About 1,605 cataract operations were performed during 2010-11.

11. Department of Radiology

Department of Radiology has facility to do, apart from routine procedures, contrast studies and ultrasound scanning.

12. Department of Laboratory Medicine

This hospital has a well-equipped laboratory, which consists of a blood bank, serology lab. and microbiology. Screening for HIV and serum Hepatitis B and C are routinely done.

13. Department of Telemedicine

Telemedicine facility is available between Railway Hospital, such as Maligaon, N.F.Railway, Danapur E. C. Railway, Central Hospital, Allahabad N. C. Railway.

Connectivity is also available between Railway Hospital, Perambur and all other divisional hospitals on Southern Railway.

TELEOPHTHALMOLOGY is available between Railway Hospital, Perambur and Sankara Nethralaya. Regular case discussions are being held.

14. Public Health

Public health wing is looking after the sanitation in colonies and important stations and also in the supply of safe drinking water. Control and prevention of communicable diseases is a major work of this wing. Implementation of PFA Act is ensured by constantly monitoring the quality of foodstuffs, which are being supplied through IRCTC and catering establishments.

Food samples are regularly collected and sent for analysis and action initiated. Details of Food samples collected during 2010-11 are given below :—

No.of food samples collected	..	416
No.found adulterated/Mis branded	..	23
No. of cases filed in the court under PFA Act-1954 against defalcator	..	10 cases
Amount realized through fines imposed on offenders under PFA Act-Rs. 50,000.		

Quality of water supplied at stations and colonies are monitored by conducting regular tests for residual chlorine and for bacteriological and chemical analysis. Details of water samples found fit during 2010-11 are given below :—

1. For Bacteriological analysis	..	74.00%
2. For Residual Chlorine	..	65.50%

School Health Service

Regular medical checkup is conducted in all the Railway Schools. Each student is supplied with a printed booklet in which all his parameters are recorded.

To improve efficiency of health services and to ensure customer satisfaction, a rolling shield called **"CMD's Rolling shield for best Health Unit"** is given to the best maintained Health Unit every year. This year HU/TJ of TPJ division has been adjusted as the Best Health Unit and the shield was presented by GM during the Railway Week Celebrations. In order to improve food hygiene and catering services, **"Catering service improvement committees"** have been formed which is functioning in all divisions. This committee imparts Health Education on food hygiene to all cooks and vendors. To introduce a healthy competition among the caterers, Rolling shields have been awarded every year To the catering units at divisional level and at Head Quarters level.

Sanitation and Cleanliness :

Cleanliness of A1, A, & B category stations under medical department are monitored round the clock by evaluating the standard of cleanliness. Southern Railway has 58 A1, A & B category stations among which 50 stations have been provided with mechanized cleaning. 46 stations were outsourced for comprehensive cleaning which included station sanitation, rag picking & garbage disposal posts of Health Inspector were created and each divisions were posted with one Assistant Health Officer to improve the standard of cleanliness. A1-category station like other than MAS & MS of Chennai Division are posted with AHO and the are supervising and monitoring the cleaning activities round the clock. More and more modern equipments and machineries were introduced to improve and maintain the standard of sanitation at high order.

As per MR's directives on **'cleanliness and passenger amenities'** special cleanliness drives were conducted at various stations. Awareness campaigns were organized to create a visual impact and awareness among the traveling public in different divisions, involving the members of SJAB, Scouts & Guides and other voluntary organizations.

In order to assess the standard of cleanliness daily at A1, A & B category stations, a check list and scoring sheets have been formulated and provided to all Health Inspectors for daily assessment and grading. This is closely being monitored by AHO,s , Sr.DMO's and Chief Medical Superintendents. All these efforts are taken to attain high standard of cleanliness and effective supervisions.

AIDS Control Project :

All the NACO guidelines are implemented in Southern Railway through the Southern Railway AIDS Control Project, which is executed by a committee in which CMD is the Chairman, Dy. CMD/H&FW is the Nodal Officer and Dy. FA&CAO(G) is a member.

Various awareness programmes, cultural shows, dramas, etc are routinely conducted to create awareness about HIV/AIDS. Our current pool size of HIV/AIDS is 410, which includes 254 asymptomatic cases and 156 full blown AIDS cases. All the HIV cases are regularly followed up and required care and support have been rendered by the counselors, attached to the four Integrated Counseling and Testing Centres (ICTC) in Southern Railway. Anti Retroviral Treatment has also been started, for the needy people living with HIV&AIDS.

Family Welfare Programme :

Reproductive and Child Health services are rendered to the Railway beneficiaries effectively. Regular well baby clinic, Antenatal clinic, Immunization clinic, well baby shows etc are conducted through out Southern Railway.

During the reporting year 2010-2011, 577 sterilizations have been conducted through out Southern Railway. Regular Laparoscopic sterilization camps were also conducted. This year Six Laparoscopic camps were conducted. 27 vasectomy operations were performed during the year in Southern Railway.

In order to create a healthy competition among the divisions "Best FW Centre" award is being given every year to the best performed family welfare center. This year this award was given to the MS/FWC.

Health Promotion

Towards health promotion, we are organising Health Education campaigns by way of classes, Exhibitions, Quiz programmes, etc. covering various Communicable and non communicable diseases at Colonies, Offices, Workshops, Yards, Training schools and Railway schools, etc.

Pulse Polio Immunisation :

Pulse Polio Immunisation was given to 24,624 children below 5 years during campaign in February and March – 2010.

Control of Tuberculosis :

Health education classes were conducted by Medical Officers of S.Rly. and health education materials were distributed. Screening camps were conducted at Divl.Hospitals and Health Units on Southern Railway.

All TB patients registered are being given Anti-TB drugs without any interruption under DOTS. Protein food supplement are given to TB patients.

St. John's Ambulance Brigade, No.20, S.Rly.Dist :

20,Southern Railway District of SJAB is functioning effectively and First Aid Training to staff are imparted regularly.

Chennai Division : The Medical Branch Headquarters of Chennai Division is at Chennai Egmore and Chief Medical Superintendent is in-charge of the division. The Divisional hospital is located at Arakkonam has 50 beds with a well equipped operation theatre, Laboratory and Maternity care facilities. Regular family planning operations are done at Arakkonam. Sterilisation are done with the latest laparoscopic Technology. Apart from Health units, lockup dispensary is functioning at Kadaperi. ARME scale I is available at Jolarpettai and Chennai Central and scale II at Katpadi, Arakkonam and Sullurpet. At Egmore, a part time dental clinic is functioning with sophisticated Dental equipment. X-ray facilities are available at Egmore and Arakkonam with 300 MA and 50 MA Xray machines. The family welfare centre for Chennai Division is functioning at Egmore, with Sr.DMO/ FWC/MS. This FWC takes all steps in connection with MCH programme, small family norm and immunisation. All Health oriented programmes are being conducted by this FWC.

Golden Rock Hospital : There is a Divisional Hospital for Tiruchchirappalli Division at Golden Rock with bed strength of 197 and a Sub- Divisional Hospital is available at Villupuram with bed strength 26. Railway Hospital, Goldenrock caters to Tiruchchirappalli division with the help of 8 health units (at Mayiladuthurai, Srirangam, Trichy Fort, Trichy Junction, Tiruvavur, Vridhachalam, Tanjore and Thiruvannamalai). There are 32 Medical Officers posted in TPJ Division. In the Divisional Hospital all routine and specialised work is being done in all the fields. The Divisional Hospital has been recognised by MCI for Senior House surgeons and there are 3 senior House Surgeons presently available.

Madurai Division : There is a divisional hospital at Madurai with 115 beds and there are 10 Health units at Dindigul, Karaikudi, Manamadurai, Tirunelveli, Pollachi, Virudhunagar, Palani, Sengottai, Tuticorin and Mandapam. 23 Medical Officers have been posted in Madurai division. All the routine and specialised works are being conducted in the hospital. This hospital is recognised by MCI for Senior House Surgeons and there are three senior House surgeons..

Palghat Division : The Divisional Hospital at Palghat is well equipped. All the routine and specialised works are being done in the divisional hospital at Palghat. It has a well equipped ICU unit. This hospital is also recognised by MCI for Senior House Surgeons. There are 3 Senior House Surgeons available here. The Sub-Divisional Hospital at Shoranur is also well equipped. The total bed strength in the division is 132 and 17 Medical Officers have been posted in this Division. There are 4 Health Units at Kozhikkode, Cannanore, Calicut and Mangalore.

Salem Division : The Divisional Headquarters is at Salem. In this division, there are two Sub-Divisional Hospitals, one at Podanur and one at Erode, which are well equipped. The total bed strength in the division is 62 and 9 Medical Officers have been posted in this Division. There are 3 Health Units at Coonoor, Mettupalayam and Karur, in addition to the Health Unit at Salem.

Trivandrum Division : There is a well equipped 54 bedded Divisional Hospital at Trivandrum Pettah. There are 6 Health Units at Quilon, Ernakulam, Nagercoil, Kottayam, Trichur & Alleppey. One Medical out is functioning at Irumpanam which is attended by Sr. DMO/Ernakulam on a programmed basis. One more outpost is functioning at Thycaud-TVC, twice a week for the convenience of the Divisional Office staff.

The Medical department in TVC division is functioning under the overall control of the Medical Superintendent. The Hospital at TVC as a sanctioned strength of 9 doctors. A dental clinic is also functioning at RH/TVC with a full time DDS.

In the Divisional Hospital Pattah, There are 50 beds with facilities for X ray, ECG & Lab. Investigations are available. A physiotherapy unit with all major equipments is also functioning. One Intensive Care Unit with 4 beds are available.

ICF/PER : ICF Hospital is a 101 bedded hospital. Workload at this hospital is heavy and most of the retired Railway employees are also taking treatment here. At present there are 19 doctors. Most of specialised works are done in this hospital. There are two First Aid posts attached to ICF Hospital, one at ICF/Furnishing and the other at ICF/Shell Workshop.

2. Statistics for the year 2009-2010 and 2010-11

Sl. No.	Particulars	2009-10	2010-11
1	Total No. of staff	1,07,615	1,06,823
2	Cost of Medical services	1,18,27,08,000	1,25,88,93,000
3	Cost of Medical services per head per annum.	10,990.13	11,784.84
4	Cost of Health service in thousands of rupees.	23,88,36,000	26,13,55,000
5	Cost of Health service per head per annum.	2,219.35	2446.61
6	(a) Cost of drugs in rupees	30,38,22,000	35,13,91,000
	(b) Total amount of reimbursement in rupees	..	..
7	Total cost of Medical & Health service per annum per head in Rs.	13,209.48	14,231.45
8	No. of Rly employees & their families treated--New cases.	6,82,127	5,39,698
9	No. of females & children treated – New cases.	3,99,163	4,98,401
10	Daily average – out door attendance of Rly. employees & their families at Rly. Hospital/ health units/ old & new cases.	5609	6668
11	No. of Hospital	11	11
12	No. of Health Units		
	A With beds	41	41
	B Without beds	1	1
13	No. of Railway population per Railway Hospital/ health unit	10824	11247
14	No. of chest clinics	7	7
15	No. of dental clinics	6	6
16	No. of maternity clinics	26	26
17	No. of beds		
	A General	963	963
	B TB	57	57
	C Maternity	126	126
	D Isolated	5	5
	E ICCU	85	85
	Total	1236	1236
18	Health units		
	A Emergency beds	52	52
	B Maternity beds	18	18
19	Total No. of beds in hospitals/ health units, chest clinics etc.	1,306	1306
20	No. of beds per 1000 Rly employees including TB beds.	10.10	10.36
21	No. of beds per 1000 Rly employees excluding TB beds.	9.63	9.88

Sl. No.	Particulars	2009-10	2010-11
22	No. of TB beds reserved in Railway Institutions.	0	0
23	No. of Doctors		
	A Chief Medical Director	1	1
	B Dy. CMD/ T&A	1	1
	C Dy. CMD/ H & FW	1	1
	D Chief Health Director	1	1
	E Chief Medical Superintendent	7	5
	F Medical Superintendent/Sr. DMOs	202	205
	G Medical Directors	1	1
	H Chief Surgeon	1	1
	I Chief Staff Surgeon	3	1
	J Chief Dy. Medical Superintendent	0	0
	K Chief Pediatrician	0	0
	L Chief Gynecologist	0	0
	Total	218	217
24	No. of Rly. Population per Rly. Doctor	2829	2798
25	No. of mobile vans	0	0
26	Accident relief medical equipment		
	A ARME scale/I	13	13
	B ARME scale/II	28	28
27	No. of operations performed		
	A Major	4991	5510
	B Minor	4403	4377
	C Trivial	6156	5997
28	Family welfare activities		
	A Centres	4	4
	B Sub- Centres	2	2
29	No. of sterilization operation performed		
	A Tubectomy	660	550
	B Vasectomy	19	27
	Total	679	577
30	No. of I.U.D. inserted	153	156
31	No. of conventional contraceptives distributed		
	A Condom users	2593	2721
	B Diaphragm	0	0
	C Jelly cream tubes	0	0
	D Foam tablets	0	0
32	Oral pills distributed		
	A No. of oral pills	1107	1294
	B No. of users of oral pills	85	99
33	Recanalisation facilities		
	A No. of Railway Hospital doing recanalisation	1	1
	B No. of cases done	0	0

XII. STAFF

1. General

During the year under review cordial and harmonious relations were maintained in this Railway.

2. Number and cost of Staff for 2010-2011 compared with 2009-2010

Group of staff	Number of staff					
	Open line		Construction		Total	
	2010-11	2009-10	2009-10	2008-09	2009-10	2008-09
Group 'A'	477	467	85	82	562	549
Group 'B'	458	468	107	91	565	559
Group 'C'	78,916	75,937	1,546	1,314	80,462	77,251
Group 'D'	14,074	20,546	78	424	14,152	20,970
Total	93,925	97,418	1,816	1,911	95,741	99,329
Cost of staff (Rs. in lakhs)						
	2010-2011		2009-2010		2008-2009	
Group 'A'	..	..	..	10,126.72	13,561.07	
Group 'B'	..	..	..	6,281.44	7,387.84	
Group 'C'	..	..	..	4,784.65	4,22,963.63*	
Group 'D'	..	..	..	69,547.38	84,430.64*	
Total	..	..	..	5,64,377.19	5,28,343.18*	

* Revised

3. Recruitment of Scheduled Caste/Scheduled Tribe candidates in Non-gazetted service.

(a) Recruitment of S. C. /S. T. Candidates in Group 'C' & 'D' Services :-

Group	No. to be appointed according to reservation in 2010-2011			No. actually appointed in 2010-2011		
	SC	ST	OBC	SC	ST	OBC
Group 'C'	1732	782	3050	1378	573	2325
Group 'D'	0	0	0	0	0	0

(b) Promotion of S. C. /S. T. candidates in Group 'C' & 'D' Services : 2010-2011.

(i) Selection Posts

Category	No. of vacancies reserved		No. of employees actually promoted	
	Scheduled Castes	Scheduled Tribes	Scheduled Castes	Scheduled Tribes
(ii) Within Group 'C'	304	183	124	48
(ii) Within Group 'D'	-	1	-	-

(ii) Non-selection Posts

Category	No. of vacancies reserved		No. of employees actually promoted	
	Scheduled Castes	Scheduled Tribes	Scheduled Castes	Scheduled Tribes
(i) Within Group 'C'	1206	691	977	407
(ii) Within Group 'D'	51	23	39	18

(c) Short fall in S. C./S. T./O. B. C. as on 31st March 2011

Recruitment Categories	Scheduled Castes	Scheduled Tribes	Other Backward classes
Group 'C'	213	374	363
Group 'D'	90	129	212

(d) Short fall in S. C./S. T. as on 31st March 2011

Promotional Categories	Scheduled Castes	Scheduled Tribes
Group 'C'	735	1381
Group 'D'	104	295

(e) Statement showing the Number of employees belonging to Scheduled Castes and Scheduled Tribes as on 31st March 2011 —

Group	Total No. of employees as on	Scheduled Castes	Percentage	Scheduled Tribes	Percentage
Group 'A'	380	53	14%	34	9%
Group 'B'	568	133	23%	37	7%
Group 'C'	70,032	11,760	16.79	4,463	6.37
Group 'D'	16,008	3,173	19.82	1,427	8.91
(excluding Safaiwala)					
Group 'D'	1,085	729	67.18	79	7.28
(Including Safaiwala)					

4. Recruitment and Training

4.1 Recruitment :

(a) (i) Group "A" and "B" Service— Permanent appointment to Group "A" as well as appointment to Group "B" service that were made during the year 2010-2011, are as follows :-

Department	Group 'A'	Group 'B' (Promotion)
Personnel	..	7
General Management	..	4
Electrical	3	16
Transportation (Traffic & Comml.)	2	..
Engineering	3	48
Stores	..	..
S & T	..	..
Medical	3	10
Mechanical	1	5
School	..	3

(a) (ii) Number of Group 'B' Officers absorbed in Group 'A' during the year 2010-2011.

IRPS—0, IRSEE—8, IRTS—5, IRSE—0, IRSS—0, IRSSE—0, IRSME—3

4.2 Training :

(a) (i) Group 'A' and 'B' services.

Staff strength on Southern Railway Department wise as on 31-03-2011.

Sl. No.	Department	Group 'A'	Group 'B'
1.	General Management	30	43
2.	Personnel	25	48
3.	Accounts	..	..
4.	Engineering	85	171
5.	Transportation & Commercial	48	53
6.	Mechanical & CMT	35	55
7.	Stores	38	18
8.	Electrical	43	67
9.	Signal & Telecommunication	27	81
10.	Medical	185	26
11.	Security	..	..
12.	Railway School	..	..
13.	Press	..	..
	Total	516	562

(ii) The number of officers who attended the training courses during the year 2010-11, are as follows :-

Training Institutions	Mandatory Course
RSC-Vadodara	45
IRICEN-Pune	100
IRISET-Secunderabad	86
IRIMEE-Jamalur	06
IRIEEN-Nasik Road	12

10. Statement for the Financial year ending 31st March 2011 regarding Privilege Passes and P.T.Os issued to Railway employees :—

Class	Group	Privilege Passes			PTOs		
		No. of Rly. Employees to whom issued	No. of Sets Available	No. of persons included	No. of Rly. Employees to whom issued	No. of Sets Available	No. of persons included
I Class 'A'	Group 'A'	598	2791	13688	590	7751	6715
..	Group 'B'	522	2772	10941	512	1860	5810
I Class	Group 'C'	29082	57249	76799	18541	35722	37862
II Class	Group 'C'	46563	129748	190484	34579	70453	72451
II Class	Group 'D'	40154	190485	167407	25493	25648	88790

4.1. (b) (i) Appointments in Group 'C' and Group 'D' categories for the year 2010-11.

	Group 'C'	No. indented	No. supplied
1. Technical	563	..
2. Non-Technical	111	..
3. NTPC	148	..

4.1. (b) (ii) Recruitment of non-gazetted staff for the year 2009-10 and 2010-11 are as under :—

Year	Group 'C'	Group 'D'	Total
2009-2010	Nil	Nil	Nil
2010-2011	..	..	..

4.1. (b) (iii) Number of persons appointed against physically handicapped quota and on Compassionate grounds for the year 2010-11.

	Group 'C'	Group 'D'
a) No. of Physically Handicapped persons appointed.	Nil	Nil
b) No. of persons appointed on Compassionate grounds.	494	329

Note.—Indents were placed with RRBs and RRC for Gr. 'C' & 'D' post respectively. The recruitment is under process.

4.2. (b) Training - Group 'C' Staff :

Sl. Nos.	Branch	Initial	Refresher	Promotional	Special	Total
1.	Mechanical	3502	1398	372	7229	12501
2.	Electrical	732	1309	358	682	3081
3.	Engineering	1602	3122	121	962	5807
4.	S&T	272	332	158	545	1307
5.	Traffic & Comml.	2204	5432	952	5227	13815
6.	Personnel	—	—	—	—	—
	Total	8312	11593	1961	14645	36511

5. Relations with Labour

Industrial relations play a vital role in any industry for improving productivity. Indian Railway being one of the major industries pay much attention for maintaining cordial industrial relation. There are 2 recognised federations at the apex level viz., NFIR & AIRF. Southern Railway Mazdoor Union (a constituent of AIRF) and Dakshin Railway Mazdoor Union (affiliated to CITU) are two recognised Unions at Zonal level.

There are Permanent Negotiating Machinery (PNM) functioning at three tiers viz., Railway Board, Zonal level and Divisional/Extra-Divisional level. The PNM meetings are conducted regularly and the problems are sorted out across the table after mutual consultations with each other to the best satisfaction of the both the Organised Labour and the Administration. Besides PNM meetings, Joint /Special meetings are held to sort out the various day-to-day issues. Apart from this, Organised Labour are having their members in Central/Division Staff Benefit Committee, Housing Committee, Canteen Committee, Hospital Visiting Committee, etc.

6. Implementation of Labour Laws

Provisions of all Labour Laws pertaining to Railways viz., Hours of Work and period of Rest Rules 2005, Payment of Wages Act, Trade Union Act, Workmen Compensation Act, Industrial Disputes Act & Minimum Wages Act are being implemented to the satisfactory level duly taking into account the deficiencies pointed out by the various agencies like Regional Labour Commissioner, Assistant Labour Commissioner and Labour Enforcement Officers / Inspectors concerned are being attended promptly.

7. Labour Welfare

The Welfare Organization consisting of Staff & Welfare Inspectors headed by Sr. Divisional Personnel Officers, Divisional Personnel Officers, Workshop Personnel Officers and Senior Personnel Officers maintain regular contacts with employees and render assistance to staff in redressal of their grievances.

Staff information Centres at all Divisional Headquarters and at the Major Stations and Sheds provide information and assistance to staff on all Personnel and Welfare matters. These centres have been found to be of immense help to the staff. Staff & Welfare inspectors have also been nominated exclusively to attend to the grievances of the sensitive categories of staff. Grievances Adalats are held periodically at nominated stations.

Pension Adalats and Midterm Pension Adalats are conducted every year mid December and mid June/July respectively to redress the grievances of the retired employees. Pre retirement counselling is also arranged once in three months to guide the employees retiring on superannuation.

Social Security Scheme is a Welfare scheme introduced by the Railways for the benefits of Group 'C' and Group 'D' employees. A nominal amount is collected from every employee who is a member of this scheme and the amount so collected is utilized as death relief i.e., to give financial assistance to the heirs of the deceased employees at the time of employee's death. This is purely a voluntary scheme. The scheme is managed by the committee consisting of Officers and the members of the Organized Labour at the Divisional and Headquarters level. The scheme also extends the benefits to the employees at the time of their retirement on superannuation/voluntary retirement duly presenting them with a 'Wrist Watch' and an 'Executive folder'.

There are fourteen Rail Kalyana Mandapams existing in this railway. A nominal and affordable rent is being charged to the serving employees to hold various functions like Marriage, Wedding Reception, etc.

7 (II) RAILWAY SCHOOLS

There are ten Railway Schools (i.e., four Higher Secondary Schools and Six High Schools) in English, Tamil and Malayalam mediums situated in the Territorial jurisdiction of this Zone, spread (fully / partially) over Tamil Nadu and Kerala States, to extend educational facilities mainly to the wards of Railway Employee.

About 4515 children had studied in the Railway Schools during the year 2010-2011.

7 (III) SUBSIDISED HOSTELS:

Subsequent to the Budget announcement (2010-2011) by Hon'ble MR, Hostel facilities to wards of Railway employees prosecuting higher education have been made available at Chennai and Trivandrum with effect from 15.06.2011, by roping in the services rendered by private agencies. The above facilities are thrown open to wards of Railway employees of S. E. Rly, N.Rly, Central Rly, NW Rly, WC Rly and Western Railway.

An 'assessment of demand' is being conducted in this regard.

7 (IV) STAFF BENEFIT FUND:

(A) EDUCATIONAL FACILITIES:

1. Professional/Technical Educational Assistance:

6635 (Six thousand six hundred and thirty five) wards of Railway Employees have been granted scholarship for prosecuting Professional / Technical education during 2010-2011. The total expenditure incurred in respect thereof from the Central Staff Benefit Fund is as under:

DEGREE Courses : 6635 x Rs.2400=Rs.1,59,24,000-00
DIPLOMA Courses : 700 x Rs.2000= Rs.14,00,000-00

Rs. 1,73,24,000-00

Rupees One crore seventy three lakhs and twenty four thousand only)

(ii) Inclusion of new courses in the approved list of courses, of Professional / Technical Scholarship under CSBF:

The following courses have also been included for Scholarship during 2010-2011 :-

1. B.Sc. (Information System Management)
2. M.S.W. (Human Resource Management)
3. B.Sc. (Visual Communication)
4. B.Sc. (Audiology & Speech Language Pathology)

(iii) Scholarship for Higher Education of Girl/ Male Children of Group 'D' in Grade Pay Rs.1800/- & below, Rs.1900/- Rs.2000/- & Rs.2400/- on MACP:

An amount of Rs.1200/- p.m. per girl child and Rs.1000/- p.m. per male child of the Railway Employees in Grade Pay of Rs.1800/- & below and Rs.1900/- Rs.2000/- & Rs.2400/- on MACP have been granted under this head. 1405 Girl children and 1053 Male children were benefited by this Scholarship as detailed under:-

GIRL CHILDREN : 1405 x Rs.14400 = Rs.2,02,32,000 /-
MALE CHILDREN : 1053 x Rs.12000 = Rs.1,26,36,000/-

Rs. 3,28,68,000/-

(iv) Cash award to Meritorious Students:

Eight students of X Std /XII Std were granted Cash award of Rs.20,000/- each (8 x Rs.20000 = Rs.1,60,000/-) for securing ranks between 1 to 10 at State level during 2010-2011. Also three College students were granted cash award of Rs.5000/- each (3 x Rs.5,000 = Rs.15,000) for securing first rank at University level during 2010-2011.

(v) Book Bank:

Under the auspices of CSBF, the Southern Railway Book Banks have become very popular of late. Altogether seven Book Banks are functioning at Hqrs, TPJ, MDU, PGT, TVC, PTJ and SA. These Book Banks cater to the needs of students, who are wards of Railway employees studying Professional/Technical courses. A new Book bank has been opened at S&T /PTJ with an initial amount of Rs.25,000/- sanctioned from CSBF during the year 2010-2011.

A sum Rs.15,00,000/- (Rupees Fifteen Lakhs only) has been sanctioned towards the grant of Book Banks during the year 2010-2011.

7 (IV) (B) SCHEMES OF BENEFITS TO THE SICK:

1) Financial Assistance for 'Relief of Distress/Sickness

A total amount of Rs.14,22,511/- (Rupees Fourteen lakhs twenty two thousand five hundred and eleven only) was sanctioned to nineteen employees seeking financial assistance under this head during the year 2010-2011 apart from the following expenditure :-

Honorarium to Barber @ RH / PER	-	Rs. 14,000-00
Honorarium to HIV/AIDS Consultant @ RH/PER	-	Rs. 34,286-00
Honorarium to Lab Technician @ RH/PER	-	Rs. 33,344-00
Provision of Light refreshment to Blood Donors at RH/PER	-	Rs. 2,48,928-00
Funeral expenses to the families of serving employees who had expired in RH/PER	-	Rs. 4,90,000-00

Also, an amount of Rs. 85,000/- has been sanctioned for disbursing the Special cash incentive for Vasectomy Sterilization (Rs.5000/- for those having one child & Rs.2,500/- for those having two children) during the year 2010-2011.

2) Financial Assistance for 'Relief of Distress/Sickness for employees in GP Rs.1800/- and below

An amount of Rs. 80,000/- (Rupees Eighty thousand only) was sanctioned to five employees seeking financial assistance under this head during the year 2010-2011.

3) Indigenous system of medicine:

In order to provide medical assistance to such of those employees and their family members who are desirous of having treatments under indigenous system of medicines like Homoeopathy/ Ayurvedhic, the following Homoeopathy / Ayurvedhic dispensaries are functioning in this Railway on part time basis.

Headquarters Office/NGO/MAS	-	Homoeopathic Dispensary
Ayanavaram	-	Homoeopathic Dispensary
Madurai Division	-	Homoeopathic Dispensary
Palghat Division	-	Homoeopathic Dispensary
Tiruchchirappalli Division	-	Homoeopathic Dispensary
Golden Rock Workshop	-	Homoeopathic Dispensary
Podanur Workshop	-	Homoeopathic Dispensary
Shoranur (Palghat Division)	-	Ayurvedhic Dispensary

This apart, it was proposed by PGT Division to open a new Ayurvedic Dispensary at Cannanore and an amount of Rs.2,20,450/- was sanctioned towards the same from CSBF.

7 (IV) (C) RECREATION AND AMUSEMENT :

An amount of Rs.24,12,545/- has been allotted for Recreation & Amusement in Southern Railway.

(1) Holiday Camps :

Holiday camps for Men / Women employees as well as Children of the employees are being conducted regularly in this Railway under the auspices of Central Staff Benefit Fund. Details of holiday camps conducted are as under :-

DIVISION	HOLIDAY CAMP CONDUCTED DURING 2010-2011	No. OF PARTICIPANTS	AMOUNT SPENT Rs.	PLACES VISITED
HQ	Women Employee's Camp	54	2,10,875-00	ADI, SURAT, MUMBAI
TPJ	Children's Holiday Camp	18 girls/33 boys	2,39,000-00	Mysore
MDU	Children's Holiday Camp	65	1,22,768-00	CHTS – TVC
	Women Employee's Camp	65	1,25,000-00	ERS – Chottanikarai
PGT	Employee's Family Camp	76	87,359-00	Calicut, Wynaad
	Employee's Family Camp	90	1,19,873-00	Alleppey
	Employee's Family Camp	90	1,43,361-00	Tekkadi
TVC	Male Employee's Camp	57	1,93,727-00	Alleppey Back waters, Goa
	Women Employee's Camp	57	84,845-00	Alleppey
	Employee's Family Camp	60 families	2,68,510-00	Alleppey Back waters
SA	Employee's Holiday Camp	100	1,95,562-00	MDU, Tekkadi, RMM
LW/ PER	Male Employee's Camp	65	2,85,520-00	Darjeeling
EWS/AJJ	Women Employee's Camp	75	1,14,158-00	Udipi, Mangalore, Dharmastala

2) Recreation facilities for staff :

Purchase of utensils and furniture for Rail Kalyana Mandapam at DG	-	Rs.1,50,000-00
Trekking and Mountaineering expedition to Silent Valley and Nalliampathy	-	Rs. 80,159-00
Provision of ten colour TVs with cable connection for Holiday Homes at Kodaikanal of Madurai Division.	-	Rs 1,00,000-00
Vanchinad Officers' Club	-	Rs. 72,000-00
Officers' Club at Salem	-	Rs.1,00,000-00

3) Grant towards Remuneration to Handicraft centres :

A sum of Rs.2,04,182/- has been allotted towards remuneration to Instructors and Watchman/Caretakers of MAS & SA Divisions. As HCCs are now being closed, it has been decided to convert them as Multifunctional Centres where computer classes, Training programmes etc, are proposed to be conducted by self help groups (SHG), for which provision will be made from SBF.

4) Promotion of Cultural activity

All India Inter Railway Cultural Competition (IRCC) in Dance was conducted at Chennai from 04.01.2011 to 06.01.2011 by this Railway. About 325 cultural participants from Fifteen Zonal Railways and Five Production Units participated in the Dance Competition. Competition was conducted under the categories, Classical (Solo), Classical(Group) and Group (Folk). The overall shield was awarded to Southern Railway for their around performance. Apart from Railway Board's specific allocation towards IRCC, an additional amount of Rs.4,57,957/- was sanctioned from CSBF. Sanskriti Yatra on the Culture and Heritage of South India was conducted by this Railway during 10th and 11th January 2011. 150th Birth Anniversary of Swami Vivekananda was also celebrated on 12/01/2011.

5) Formation of SRCA

Southern Railway Cultural Association (SRCA) has been formed at Hqrs. during September 2010 under the Chairmanship of CAO/CN & MTP/MS to promote cultural activities in Southern Railway. Inauguration of SRCA was held on 30/3/2011. Bye laws for functioning of SRCA was framed with the approval of General Manager, Southern Railway. An amount of Rs. 3,78,180/- has been sanctioned from CSBF towards SRCA.

All Divisions of Southern Railway have also formed Divisional SRCA. An amount of Rs. 25,000/- has been sanctioned to each of the Divisions towards the same.

6) Women empowerment activities including Higher education for girls

Various activities under Women Empowerment have been organised at Hqrs. as well as Divisions/Units level. Mammogram camps were organized at Hqrs. & all divisions of Southern Railway. An amount of Rs.8,38,800/- has been spent towards detection of Breast Cancer. About 1572 women employees have benefited under this scheme.

7 (IV) (D) MISCELLANEOUS:

**SALIENT FEATURES OF SOUTHERN RAILWAY WOMEN'S
WELFARE ORGANISATION**

1. Ashraya:

A School for mentally challenged children for wards of Railway men and outsiders is being run by the Southern Railway Women's Welfare Organization (Headquarters) Chennai. There are 48 Children (from 6 years onwards) on rolls with varying degrees of IQ are trained in academics and vocation. Computer education is also imparted to the students. The students are provided with all necessary physiotherapy equipments. Apart from the Headquarters organization, such schools for differently-abled children are run by Southern Railway Women's Organization/Tiruchchirappalli (Udaya) and Southern Railway Women's Organization/Madurai (Akshaya).

2. Welfare:

A Creche named "**Blossoms**" with strength of 36 is run at Perambur for the benefit of working parents.

3. Shop:

A retail shop with name Swabhimani was opened at Railway Hospital, Perambur to cater to the needs of inpatients/their family member.

4. Other Activities:

Tiruchchirappalli and Chennai Division have schools up to 10th Standard and primary classes at Palghat and Trivandrum are run by this organization. Handicraft Centers for the wives and wards of the Railway men function at Chennai, Palghat, Tiruchchirappalli, and Madurai Divisions.

V SPORTS ACTIVITIES:**Achievement of Southern Railway Sports Association in the All India Railway Championships.**

Southern Railway performed well in the year 2010-11. We have secured the overall Second place in the Games at the All India Railway Championships.

Athletics Women	I Place
Basketball Women	I Place
Volleyball Men	I Place
Athletics Men	II Place
Bodybuilding	II Place
Gymnastics	II Place
Cycling	III Place
Shuttle Badminton	III Place
Swimming	III Place
Table Tennis	III Place
Volleyball Women	III Place

Achievement of Southern Railway Sports Persons in the National / International Meets :

Athletics:- At the Commonwealth Games in New Delhi in October 2010 Shri Joseph Abraham, V.B.Binish, Vadivelu, P.Muthusamy, Bibin Mathew, in Mens and Ms. Preeja Sridharan, Saraswathy, Reshmi Bose, P.K.Priya and Sini Jose were a part of the Indian team. In Womens section. Ms. Sini Jose, won the Gold in 4x400m Relay and P.K.Priya, won the Bronze in 4x100M Relay.

At Asian Games in China in Athletics Shri Bibin Mathew, V.B.Binish and Sajeesh Joseph represented the country while Shri Joseph Abraham, won the Gold in 400 M in Hurdles. In the Womens section Ms. P.K. Priya represented, while Preeja Sidharan, won the Gold in 10,000M and Silven in 5000M, Sini Jose won the Gold in 4x 400M Relay.

Mrs. P.T.Usha, OSD/PGT was the Coach of the team and Ms. V.Anusuya Bai, Dy.CPO/Wel./MAS was the observer.

Basketball Women: At the Asian Games in China Ms.Geethu Anna Jose, and P.Anitha were a part of the Indian team.

Chess: Shri K.Ratnakaran has represented India at the Asian Chess Championships at NDLS and was placed Third.

Cycling:- At the Commonwealth Games in New Delhi in October, 2010 Shri C. Rajesh, Dayaram Saran and H.S.Prince were a part of the Indian team. Shri Dayaram Saran, and H.S.Prince were a part of the Indian Team at Asian Games in China.

Volleyball Women:- Shri Sunil Kumar represented India at the World Championships in Turkey in September 2010. Shri E.Karunakaran was the weightlifting coach for the Indian team at Tashkent in April, 2010 for Asian Youth and Junior Weightlifting Championships.

Arjuna Awardee:- Shri Kapil Dev, Volleyball Player and Shri Joseph Abraham our athlete have been conferred with the Prestigious Arjuna Award for the year 2009-10.

VI **JOINT COUNCILS:**

In compliance with the Board's directives, Joint Councils consisting of representatives of the Administration and (Group 'C' and Group 'D') staff were set up in various Work Shops on this Railways. These Councils have been constituted to discuss the matter regarding.

- i) Ways and means of enhancing productivity.
- ii) Procurement of essential additional machinery and plant.
- iii) Optimum utilization of existing staff and machinery.
- iv) Advance procurement of stores.
- v) Maintenance of Machinery and Plant.
- vi) Preventive maintenance and its importance.
- vii) Follow -up action taken for all these subjects.

Active interest has been shown by the representatives in the functioning of these councils and this has helped in efficient working and finding solutions to day-to-day problems.

9. Provision of Staff Quarters :

Provision of Staff Quarters		Programmed Quarters No. of Quarters completed				Quarters involved in schemes, new lines, doubling etc. No. of quarters completed						
Sl.Nos.	Type of Qtrs.	2009-2010 No. of units	2009-2010 Approximate cost (Rs. in lakhs)	2010-2011 No. of units	2010-2011 Approximate cost (Rs. in lakhs)	No. of quarters under various stages of construction as on 31st March-2011	2009-2010 No. of units	2009-2010 Approximate cost (Rs. in lakhs)	2010-2011 No. of units	2010-2011 Approximate cost (Rs. in lakhs)	No. of quarters under various stages of construction as on 31st March 2011	Total No. of quarters provided upto 31st March, 2010, including quarters involved in schemes, new lines-doubling, etc;
1.	Type I	0	0.00	99	495.60	0	6	36.00	4	24.00	4	1867
2.	Type II	127	953.50	159	1139.00	380	6	802.60	48	284.50	12	1034
3.	Type III	48	396.20	18	142.40	47	13	104.46	19	150.20	2	265
4.	Type IV	20	254.00	27	366.20	35	6	102.00	6	54.00	6	74
5.	Type IV (Special)	0	0.00	0	0.00	0	0	0.00	0	0.00	0	0
6.	Type V	8	160.00	9	234.00	28	8	276.75	74	0.00	0	40
7.	Barracks	0	0.00	1	75.00	0	0	0.00	0	0.00	0	0

(ii) Improvements to old type quarters have been carried out during the year 2010-2011 at an estimated cost of Rs. 939.31 Lakhs.

(iii) The position regarding quarters for Class III and Class IV as indicated below.—

Sl. No.	Category	Essential	Non-Essential	No. of staff Qrs. as on 31st March 2010 (available as on)		No. of Staff Quarters 31st March 2011 (available as on)
1.	Class III	55802	..	20,623	Type I Type II Type III Type IV Type V	15,980 10,212 2,573 1,096 64
2.	Class IV	10,462	..	10,226		
	Total	66,264	..	30,849		29,925

10. Additional information of staff strength required to be incorporated vide Board's letter No. 86/Stat./1/5 dated 5th June 1986 is given as under :

	Group 'C'	Group 'D'		Group 'C'	Group 'D'
1. Signal & Telecommunication Department			(c) Construction		
(i) Signal	1,742	675	(i) Railway Electrification	256	44
(ii) Tele-communication	757	227	(ii) Organization	84	27
(iii) Microwave	155	7			
2. Civil Engineering Department			4. Commercial		
(i) Civil Engineering Permanent Way	370	93	(i) Commercial Clerks	2,830	14
(ii) Civil Engineering Works	381	..	(ii) Ticket Checking Staff	3,322	..
(iii) Civil Engineering Bridges	45	..	(iii) Catering Staff	4	..
(iv) Civil Engineering Workshop	..	..	
3. Electrical Department			5. Operating		
(a) Workshop & production Units			(i) Train Clerks	373	..
(i) EMUs	1,818	117	(ii) Guards	1,470	..
(ii) Others	1,495	422	(iii) Traffic Signallers	..	..
(iii) Electric Loco	..	..	(iv) Shunting Staff	2998	2451
			(v) Yard Staff	..	..
			(vi) Others	..	..
(b) Open Line			6. Mechanical		
(i) Electrical Loco Shed	1,366	293	Workshops & Production Shops		
(ii) EMU Shed	..	..	(i) Steam Locos	1	..
(iii) Rolling Stock Operation	..	..	(ii) Diesel Locos	171	..
(iv) Traction Distribution	1,006	757	(iii) Carriage & Wagon	1	..
(v) General Services	2,770	1,546	(iv) AC Loco	..	..
			(v) Other activities	126	29



XIII. AMENITIES FOR PASSENGERS

1. Augmentation of Trains for the year 2010-11.

AUGMENTATION OF TRAINS FOR THE YEAR 2010-2011										
Sl.	Train No.	From	To	Area	Load before augmen- tation	Load after augmen- tation	Augmented by	No. of coaches augmen- ted	Additional capacity generated	With effect from
1	12651/12652 Weekly Exp.	MDU	NZM	TN	21	22	GSCN	1	72	12/15/04.10
2	JS-1 Pass. link	PGT	..	KL	11	12	GS	1	90	21.05.10
3	372/375 Passr.	NCJ	TVC	KL/TN	12	15	GS	3	270	21.05.10
4	16175/76 Exp.	MS	NCR	TN	14	15	FC	1	26	23/24.5.10
5	16305/06 Exp.	ERS	CAN	KL	17	18	GSCZ	1	108	28.05.10
6	16307/08 Exp.	ALP	CAN	KL	15	16	GSCZ	1	108	28/29.05.10
7	12269/70 Durgam Bi-weekly Exp.	MAS	NZM	TN	15	17	ACCW & ACCN	2	46 & 64	9/10. 07.10
8	12685/86 (6 days a week) Exp.	MAS	MAQ	KL	21	22	ACCW	1	46	15/16.07.10
9	16043/44 Weekly Exp.	PCY	MAQ	KL						19/20.07.10
10	12661/62 Podhigai Exp.	MS	SEN	TN	19	20	GSCN	1	72	31/1.7.8.10
11	16713/14 Exp.	MS	RMM	TN						30/2.7.8.10
12	12693/94 Exp.	MS	TN	TN	20	21	GSCN	1	72	30/31.7.10
13	12667/68 Exp.	MS	NCJ	TN	19	23	GSCN ACCN	2 2	144 128	05/06.08.10
14	12269/70 Durgam Bi-weekly Exp.	MAS	NZM	TN	17	18	FAC	1	24	30/31.07.10
15	12611/12 Garib Rath Weekly Exp.	MAS	NZM	TN	14	15	ACCNH	1	75	24/26.07.10
16	16127/28 Exp.	MS	GUV	TN/KL	23	24	GS	1	90	30/31.07.10
17	12605/06 Pallavan Exp.	MS	TPJ	TN	23	24	GSCZ	1	108	30/31.07.10
18	12635/36 Vaigai Exp.	MS	MDU	TN	23	24	GSCZ	1	108	30/31.07.10
19	16359/60 Weekly Exp.	ERS	Patna	KL	19	20	GSCN	1	72	31/7/3.8.10
20	16733/34 Weekly Exp.	RMM	Okha	TN	14	15	GSCN	1	72	13/17.8.10
21	12659/60 Weekly Exp.	NCJ	Shalimar	TN	21	22	ACCN	1	64	8/11.8.10
22	16323/24 Bi-weekly Exp.	TVC	Shalimar	KL	19	20	ACCW	1	46	14/17.8.10
23	12083/84 Jan Shatabdi Exp.	MV	CBE	TN	10	11	GSCZJ	1	108	09.08.10
24	16327/28 Bi-weekly Exp.	Korba	TVC	KL	18	19	GSCN	1	72	12/14.08.10
25	16323/24 Bi-weekly Exp.	TVC	Shalimar	KL	21	22	GSCN	1	72	14/17.08.10
26	16325/26 Weekly Exp.	Indore	TVC	KL	19	20	GSCN	1	72	21/23.08.10
27	16613/14 Weekly Exp.	Rajkot	CBE	TN	19	20	GSCN	1	72	12/15.08.10
28	16733/34 Weekly Exp.	RMM	Okha	TN	15	18	GSCN&GS	2 & 1	144 & 90	03/07.09.10
29	16175/76 Exp.	MS	NCR	TN	15	16	GSCN	1	72	01/02.09.10
30	16317/18 Weekly Exp.	CAPE	JAT	TN/KL	22	23	GSCN	1	72	24/27.09.10

Sl.	Train No.	From	To	Area	Load before augmentation	Load after augmentation	Augmented by	No. of coaches augmented	Additional capacity generated	With effect from
31	12651/52 Bi-weekly Exp.	MDU	NZM	TN	20	21	GSCN	1	72	09/12/10.10
32	12793/94 Bi-weekly Exp.	MS	MDU	TN	14	15	GSCN	1	72	14/15.10.10
33	337/332 Passr.	ERS	ALP	KL	14	15	GS	1	90	01.10.10
34	323/322 Passr.	ALP	QLN	KL	14	15	GS	1	90	01.10.10
35	16865/6866 Exp.	NCR	ERS	TN/KL	15	16	ACCW	1	46	16.10.10
36	16865/6866 Exp.	NCR	ERS	TN/KL	16	17	FC	1	26	16.10.10
37	16175/76 Exp.	MS	NCR	TN	16	17	FACCW	1	20	26/29.11.10
38	16865/6866 Exp.	NCR	ERS	TN/KL	17	18	FACCW	1	20	27/28.11.10
39	16359/6360 Exp.	ERS	Patna	KL	20	21	ACCN	1	64	25/28.12.10
40	12687/2688 Weekly Exp.	MAS	Dehradun/ Chandigarh	TN	21	22	ACCN	1	64	23/27.12.10
41	16175/76 Exp.	MS	NCR	TN	17	18	GS	1	90	20/23.12.10
42	16865/6866 Exp.	NCR	ERS	TN/KL	18	19	GS	1	90	21/22.12.10
43	12617/2618 Exp.	ERS	NZM	KL	18	19	ACCW	1	46	30.12.10.2.11
44	12651/52 Bi-weekly Exp.	MDU	NZM	TN	21	23	ACCN GSCN	1 & 1	64 & 72	24/27.01.11
45	12793/94 Weekly Exp.	MS	MDU	TN	15	17	ACCN GSCN	1 & 1	64 & 72	03/04.02.11
46	12647/12648 Weekly Exp.	CBE	NZM	TN	20	21	GSCN	1	72	23/26.01.11
47	12681/12682 Weekly Exp.	MAS	CBE	TN	18	19	GSCN	1	72	28/29.01.11
48	12675/12676 Exp.	MAS	CBE	TN	19	21	GSCZ	2	216	10.01.11
49	16687/16688 Weekly Exp.	MAQ	JAT	TN	20	21	GSCN	1	72	24/27.01.11
50	16733/16734 Weekly Exp.	RMM	Okha	TN	18	19	ACCN	1	64	28.1/01.2.11
51	12669/12670 Bi-weekly Exp.	MAS	Chaapra	TN	22	23	ACCN	1	64	29/31.01.11
52	12691/12692 Week End Exp.	MAS	SSPN	TN	22	23	ACCN	1	64	04/06.02.11
53	12659/12660 Weekly Exp.	NCJ	Shalimar	TN	22	23	GSCN	1	72	30.01/02.02.11
54	12677/12678 Exp.	SBC	ERS	KL	17	18	GSCZ	1	108	28/29.01.11
55	12675/12676 Exp.	MAS	CBE	TN	21	23	GSCZ&GS	1 & 1	108 & 90	21.02.11
56	12693/94 Exp.	MS	TN	TN	21	23	ACCN GSCN	1 & 1	64 72	12/13.03.11
57	16736/16735 Weekly Exp.	TCN	MS	TN	15	17	GSCN	2	144	10.03.11
58	12788/12787 Weekly Exp.	TEN	Bilaspur	TN	15	17	GSCN	2	144	13/15.03.11
59	16723/16274 Exp.	MS	TVC	TN/KL	18	19	GSCN	1	72	10/11.03.11
60	16713/16714 Exp.	MS	RMM	TN	20	22	ACCN & GSCN	1 & 1	64 & 72	14/17.03.11
61	12661/62 Podhigai Exp.	MS	SEN	TN						15/16.03.11
62	12675/12676 Exp.	MAS	CBE	TN	23	24	GSCZ	1	108	07.03.11
63	2679/2680 Inter City Exp.	MAS	CBE	TN	21	23	GSCZ	2	216	08.03.11
64	16669/16670 Yercaud Exp.	MAS	ED	TN	22	23	GSCZ	1	216	07/08.03.11

2. Drinking Water Arrangements

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
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(A) Works Completed**(i) Works costing more than ₹ 5 lakhs :—**

1. MAS	..	SP all station from Nungambakkam to Guindy watering arrangements.	7.74
2. SA	..	PTJ - Construction of OHT 90000 ltrs. capacity and replacement of pipe line grid at 20 block area.	49.50
		TUP - Tiruppur - Construction of OHT 45000 litres capacity including pipe line arrangement from well to good shed area (id. 1849/08-09) CE/OL.	45.00
		CBE - Coimbatore Jn. Provision of reverse osmosis plant for providing drinking water to passengers.	29.00
		S & T workshop - Installation of reverse osmosis plant.	8.00
3. PGT	..	Nil	
4. TVC	..	Quilon - Provision of borewell.	6.99
		NCJ - Provision of borewell.	28.60
		NCJ - Proposed water hydrant in road No. 1.	24.51
5. MDU	..	KKDI - Borewell - 2 Nos. and Augmentation of pipeline.	9.20
6. TPJ	..	Ponmalai - Replacement of pipeline in colony to ensure uniform distribution of water supply (C type 1300 & F type 500).	61.00
7. CN/MS	..	Nil	
8. MTP	..	Nil	

(ii) Works costing less than ₹ 5 lakhs :—

1. MAS	..	Puttur - Provision of water to platform taps.	2.50
2. SA	..	Nil	
3. PGT	..	Nil	
4. TVC	..	Nil	
5. MDU	..	Nil	
6. TPJ	..	Nil	
7. CN/MS	..	Nil	
8. MTP	..	Nil	

Sl. No.	Station/Sections	Name of work	Estimate cost (₹ in lakhs)
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(B) Works in Progress**(i) Works costing more than ₹ 5 lakhs :—**

1. MAS	..	SPE - ENR, AIPP, NPKM, APB & KVP drinking water supply by private agency.	8.00
		SPE, MJR, AIP, PON, GPD & ELR TWAD water supply.	180.00
		Avadi - Water supply through lorry	25.00
		PWQ - Ayanavaram repairs to pipelines replacing of filter bed maintenance of water treatment plant at filter house.	11.30
2. SA	..	SA - Dn. - Provision of drinking water facilities at goodsheds at SA, SAMT, ED, IGU, PLMD, & CBF.	50.00
		PTJ - Podanur - Provisional individual storage water tank at staff quarters (400 nos.) and augmentation of water supply by drilling three more bore wells and pipe line arrangements (id. 1359/08/09).	49.00
		PTJ - Provision of purified drinking water to stations through water treatment systems at CBE (id. 1506/09-10) CE/OL.	20.00
3. PGT	..	Provision of purified drinking water to stations through water treatment system.	13.00
4. TVC	..	Nil	
5. MDU	..	DG Jn. Construction of RCC GLR and OHT of 90,000 lits. capacity for augmenting drinking water supply including laying of water pipe line from 3/4-5. DG Jn. Construction of RCC tank 1 lakh capacity including renewal of exg. Corroded pipe line at Hanumantha Nagar colony.	99.10
		DG Jn. Augmentation of water storage for the requirement of station cleanliness.	7.63
		TN - Renewal of corroded pipe line	30.00
6. TPJ	..	Nagappattinam & Nagore - Augmentation of water supply at NGT, NCR (id : 1578/07-08), CE/OL.	15.00
7. CN/MS	..	Nil	
8. MTP	..	Nil	

(ii) Works costing less than ₹ 5 lakhs :—

1. MAS	..	KPD - Summer watering arrangements including in the work of maintenance of station building and staff quarters.	2.07
2. SA	..	Nil.	
3. PGT	..	Nil	
4. TVC	..	Nil.	
5. MDU	..	Nil	
6. TPJ	..	Nil.	
7. CN/MS	..	Nil	
8. MTP	..	Nil	

Taps/Handpumps/Water huts provided

Division	Taps available during 2009-10	Taps available during 2010-11	Taps provided during 2010-11
MAS	2,095	2,109	14
TPJ	1,071	1,116	45
MDU	1,749	1,818	69
SA	558	591	33
PGT	1,033	950	..
TVC	1,211	1,286	75
Total	7,717	7,870	236

Water Coolers Provided

Division	Coolers available during 2009-10	Coolers available during 2010-11	Coolers Provided during 2010-11
MAS	131	268	137
TPJ	30	63	33
MDU	49	103	54
SA	27	49	22
PGT	49	97	48
TVC	52	105	53
Total	338	685	347

3. Details of Passenger Amenity Works over Southern Railway during 2010-11.

1. During the year 2010-11, 40 passenger amenity works costing 16.70 crores were completed.
2. During the current year 2011-12 totally 244 passengers amenity works costing 357.59 Crores are in various stages of progress out of these 244 works, 223 works are in progress and 21 works are sanctioned during the current year. 25 passenger Amenity works costing 18.73 crores have been completed as on August 2011 in the current year.

During 2010-11 out of budget grant of 93.60 crores actually 60.18 crores were spent which is 64 % of the budget grant.

In the current year 2011-12, Budget grant is 54.90 crores and an amount of 40.62 crores have been spent upto 31/8/2011 which is 74 % of the budget grant.

The catering policy 2010 was circulated vide commercial circular No. 35 dated 21/7/2010 according to this policy, all catering units except Food Plazas, Food Courts & Fast food units are to be managed by Railways. 41 Mobile units and 740 static units were taken over from IRCTC for management by Railways.

4. Departmental Catering at stations :

Departmental catering units are functioning at the following stations under the control of Railways :—

1. Jan Ahar / MAS
2. Jan Ahar Stall / ED
3. Jan Ahar Stall / AJJ

5. Departmental Catering on Trains :

(a) Under Management of Railways

1. Train No. 12081/12082 Jan Shatabdi Exp.

(b) Under the Management of IRCTC.

1. 12641/12642 Thirukkural Exp.
2. 12269/12270 Duronto Exp.
3. 12625/12626 Kerala Exp.
4. 12243/12244 Duronto Exp.

6. Contract Catering :—

a. Contract operated catering units under the management of Railways.

Division wise catering units run by contractors are given below :—

Sl. No.	Type of units	MAS	PGT	MDU	TPJ	TVC	SA	HQ	Total
1	Mobile (Pantry car)	..	..	..	..	..	..	41	41
2	Major units	6	6	4	4	8	5	..	33
3	Small catering units at A,B,C	93	85	33	58	67	41	..	377
4	Small catering units at D,E,F	4	20	42	34	18	9	..	127
5	Milk stalls	19	25	12	7	24	10	..	97
6	AVMs	48	13	6	6	7	36	..	116
7	Medicine stall	..	..	1	..	..	..	..	1
8	Book stall	2	2	4	2	1	..	..	11
9	Misc. stall	..	21	13	15	6	1	..	56
10	Handloom stall	..	1	..	..	2	3	..	6
11	Any other stall	7	3	2	..	19	..	..	31
	Total	179	176	117	126	153	105	41	896

Food Plazas : Food Plazas are functioning at the following stations in Southern Railway are as indicated below under the control of IRCTC :—

- | | |
|----------------------|------------------|
| 1. Chennai Central | 10. Chennai Park |
| 2. Chennai Egmore | 11. Trivandrum |
| 3. Madurai | 12. Coimbatore |
| 4. Ernakulam North | 13. Katpadi |
| 5. Ernakulam Jn. | 14. Palakkad |
| 6. Tiruchchirappalli | 15. Calicut |
| 7. Shoranur | 16. Mangalore |
| 8. Chennai Beach | 17. Kannur |
| 9. Trichur | |

Mobile Catering units :

Contractor operated Mobile-catering units under the control of Railways.

- | | |
|---|------------------|
| 1. 12007/12008 MAS-MYS Shatabdi Exp. | 6 days in a week |
| 2. 12077/12078 MAS-BZA Jan Shatabdi Exp | Except Tuesday |
| 3. 12083/12084 MV-CBE Jan Shatabdi | Except Tuesday |
| 4. 12075/12076 CLT-TVC Jan Shatabdi | Daily |
| 5. 12675/12676 MAS-CBE Kovai Exp. | Daily |
| 6. 12677/12678 CBE-SBC Intercity Exp. | Weekly |
| 7. 16345/16346 Netharavathi Exp. | Daily |
| 8. 12617/12618 ERS-NZM Mangala Exp. | Daily |
| 9. 16339/16340 NCJ-CSTM Exp. | 4 days in a week |
| 10. 16323/16324 TVC-HWH Exp. | Bi-weekly |
| 11. 16337/16338 ERS-OKHA Exp. | Bi-weekly |
| 12. 16327/16328 BSP-TVC Exp. | Bi-weekly |
| 13. 16309/16310 ERS/PNBE Exp. | Weekly |
| 14. 16331/16332 TVC-CSTM Exp. | Weekly |
| 15. 16335/16336 NCJ-GIM Exp. | Weekly |
| 16. 12643/12644 TVC-NZM Exp. | Weekly |
| 17. 16325/16326 INDB-TVC Ahilyanagari Exp. | Weekly |
| 18. 16317/16318 CAPE-JAT Himsagar Exp. | Weekly |
| 19. 12665/12666 CAPE-HWH Exp. | Weekly |
| 20. 16351/16352 NCJ-TPTY Exp. | Bi-weekly |
| 16353/16354 TPTY-CSTM Exp. | Bi-weekly |
| 21. 16359/16360 ERS-PNBE Exp. | Weekly |
| 22. 12663/12664 TPJ-HWH Exp. | Bi-weekly |
| 23. 16127/16128 MS-GUV Exp. | Daily |
| 24. 12679/12680 CBE-MAS Intercity Exp. | Daily |
| 25. 12687/12688 MAS-DDN Exp. | Weekly |
| 26. 16311/16312 TVC-BKN Exp. | Daily |
| 27. 12651/12652 MDU-NZM Sampark Kranti Exp. | Bi-weekly |
| 28. 16865/16866 ERS-NCR Exp. | Daily |
| 29. 16733/16734 RMM-Okha Exp. | Weekly |
| 30. 12655/12656 MAS-ADI Navajeevan Exp. | Daily |

- | | |
|---|--------|
| 31. 16687/16688 MAQ-JAT Navayug Exp. | Weekly |
| 32. 16381/16382 CAPE-CSTM Exp. | Daily |
| 33. 12621/12622 Tamil Nadu Exp. | Daily |
| 34. 16333/16334 TVC-VRL Exp. | Weekly |
| 35. 12615/12616 MAS-NDLS Grand Trunk Express. | Daily |
| 36. 12639-12640 MAS-SBC Brindavan Exp. | Daily |
| 37. 12605/12606 MS-TPJ Pallavan Exp. | Daily |
| 38. 12635/12636 MS-MDU Vaigai Exp. | Daily |
| 39. 16649-16650 TVC-MAQ Parasuram Exp. | Daily |
| 40. 16301-16302 TVC-SRR Venad Exp. | Daily |
| 41. 12669-12670 MAS-CHAPRA GK Exp. | Weekly |

7 Chief Food Packets

Exclusive Jan Ahars are functioning at MAS (managed by Railways) & ERS (managed by IRCTC). Outlets selling Janatha Khana are also functioning in 49 stations in existing licence operated units managed by Railways.

8 Catering Supervisory Committee

Catering Monitoring cell is functioning at Headquarters & Divisions.

Indian Railway Catering & Tourism Corporation (IRCTC)

At present, IRCTC is managing 17 Food plazas, 5 Fast Food units at various stations over Southern Railway 4 mobile units and 69 Book stalls.

Sailent Features/Improvements

Food Plaza : Food plazas have been provided at 17 stations proposal to extend these facilities to 22 other stations is in process. Different types of food items like Chinese cuisine, French and other European confectionaries, Indian Sweets and savories are being provided to customers through these food plazas.

Base Kitchens : In accordance with catering policy 2010, 1 Mega Base Kitchen and 24 Base Kitchens are proposed 7 cell kitchens which have been taken over from IRCTC are to be converted to Base Kitchens by Railways.

Catering Monitoring Cell (CMC) : To ensure prompt and immediate rectification of deficiencies and complaints, a CMC is functioning at Zonal Headquarters and TVC Division and the Commercial Control functioning in MAS, MDU, TPJ, PGT & SA has been strengthened. Train No. 12007/12008 MAS-MYS Shatabdi Exp. has been indentified as Show Case Train and the service is monitored by deputing one Catering Inspector, end to end. Catering Inspectors/Supervisors are also rostered to monitor the Pantry car service in Mail/Exp. trains. Daily and weekly feed back is sent to Board.

9. Details of Amenities provided during the Year 2010-11

Sl. No.	Description of Amenity	Unit	Amenities MAS Divn.		Amenities SA Divn.		Amenities PGT Divn.		Amenities TVC Divn.		Amenities TPJ Divn.		Amenities MDU Divn.		Amenities CNMS		Total Expenditure in thousands of Rupees
			Provided during the year 2010-11	Expenditure in thousands of ₹	Provided during the year 2010-11	Expenditure in thousands of ₹	Provided during the year 2010-11	Expenditure in thousands of ₹	Provided during the year 2010-11	Expenditure in thousands of ₹	Provided during the year 2010-11	Expenditure in thousands of ₹	Provided during the year 2010-11	Expenditure in thousands of ₹	Provided during the year 2010-11	Expenditure in thousands of ₹	
1	Waiting hall	Sq. m.			225	4,050			71	625	..	..	288	1404	1129.50	18271	24350
2	Seating arrangements	Nos.	270	705	1256	18840	164	58	524	1600	..	..	20	20	1378	10084	31307
3	Covering platforms	Sq. m.	200	3046	9901	725000	5142	28722	4488	28300	..	..	1703	1795	9406	17758	804621
4	Drinking water arrangements																
	1. Hand pums	Nos.			..	..	..	..	20	5	..	..	..	..	24	5642	5647
	2. Taps	Nos.	8	800	41	1025	..	..	17	4	74	370	42	1071	81	416	2671.25
5	Foot over bridge	Nos.	1	2000	1	542	..	..	2	11250	..	..	1	4000	62	27800	45592
6	Waiting rooms	Sq. m.			..	..	..	..	60	4950	..	..	..	..	366	7320	12270
7	Suitable platform including raising sq.m.	Sq. m.			1587.60	4344.70	3160	8157	13064	14810	20137	2764	6527	8726	55790	24255	493182
8	Booking windows-cum-reservation counter.	Nos.			1	3200			20	2000	..	..	8	588	28	1749.60	7537.6
9	Sanitised latrines	Nos.			12	1500	5	195					38	4000	28	8967.60	14662.6
10	Waiting-cum-booking office	Nos.	..	..	..	..	..	..	3	6250	..	..	..	..	913.55	18271	24521
11	Retiring rooms	Nos.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
12	Enquiry counters	Nos.	..	..	..	..	..	..	4	500	..	..	..	..	1	72	572

10. Passenger Amenity Works Completed during 2010-11

LAW PB	Item No.	Work	Cost in ₹ Lakhs
PB	561	CHENNAI EGMORE—Improvement to passenger amenities incl. beautification	660.00
LAW	1273	CHENNAI CENTRAL :Laying of CC apron on PF No. 6,7,8 & 11 CE/OL	34.46
LAW	1274	CHENNAI DIVISION :Improvement to lighting arrangements at TBM, AJJ, JTJ, WJR, KPD, TRL, SPE & TRT. (id : 1266/06-07), CEE.	49.99
LAW	1280	GUMMIDIPUNDI - Extension of FOB (id : 1910/07-08), CE/OL	43.27
LAW	1282	GUMMIDIPUNDI - Extension of platform to accommodate 24 coaches at PF 1 & 2 (id : 1058/02-03) CE/OL	28.08
LAW	1283	JOLARPETTAI - Extension of platform No. PF No. 1, 2 & 3 to hold 24 coaches at (id : 1038/05-06) CE/OL	32.76
LAW	1289	NEMILICHERRY - New train halt - Pro. constn of high level PF to cater 12 car units including station building, (id : 1045/05-06) CE/OL.	36.28
LAW	1290	PATRAVAKKAM - Widening of platform on Dn slow line. (id : 1914/07-08) CE/OL	66.52
LAW	1304	COIMBATORE - CC apron on Platform No. 4 (road No. 5) (id : 1684/08-09), CE/OL	49.90
LAW	1305	COIMBATORE Jn. - Provision of addl. PF shelters at island PF 1 & 2 for 2 bays (id : 1683/08-09), CE/OL	38.00
LAW	1306	COIMBATORE Jn. - Provision of addl. PF shelters at island PF 3 & 4 for 5 bays (id : 1682/08-09), CE/OL	48.34
LAW	1307	COIMBATORE - Provision of CC apron on line PF 4 for a length of 570 m (id : 1687/08-09), CE/OL	60.00
LAW	1309	KARUR - PF shelter - 4 bays' length on PF 2 (id : 1923/07-08), CE/OL	49.00
LAW	1311	MAGUDAMCHAVADI & VEERAPANDI ROAD - Provision of PF Shelter for 2 bays' length each on PF - 1 (id : 1924/07-08) CE/OL.	42.00
LAW	1312	PODANUR Jn. - New booking complex with PRS and parcel office (id : 1935/07-08), CE/OL	49.90
LAW	1315	SAMALPATTI - Extension rail level platform No. 2 for accommodating 24 coaches (id : 1680/08-09) CE/OL	40.00
LAW	1316	SAMALPATTI & DASAMPATTI - Provision of PF shelter for 2 bays' length each on PF 1 (id : 1939/07-08) CE/OL	45.00
LAW	1318	UTTUKULI - HL PF for Dn. line side 250 m and an FOB with electrical and communication installations (id : 995/03-04) CE/OL.	28.50
LAW	1327	PALAKKAD - Extension of platforms to accommodate 24 coach trains (4 stations) (id 611/PB 06-07), CE/OL... .. .	120.86
LAW	1328	PALAKKAD DIVISION - Extension of platform to hold 24 bogies (3 stations) (id : 431/PB 02-03), CE/OL.	95.90
LAW	1329	PALLIPURAM - Provision of foot over bridge (22 m long X 3 m wide) (id : 1690/08-09) CE/OL	74.34

Passenger Amenity Works Completed during 2010-11

LAW PB	Item No.	Work	Cost in ₹ Lakhs
LAW	1331	PATTAMBI & PALLIPURAM - Provision of PF shelter for 2 bays' length each on PF 2 (id : 1931/07-08) CE/OL ..	43.71
LAW	1332	PAYYANUR - Provision of PF shelter for 5 bays' length on PF 1 (id : 1934/07-08) CE/OL	42.66
LAW	1333	SHORANUR Jn. and TELLICHERRY - Provision of coach guidance system on platform (id : 1299/06-07) CSTE/OL	49.99
LAW	1334	SHORANUR Jn. - Provision of carriage watering facilities for PF No. 7 (24 coaches) (id : 990/03-04) CE/OL ..	17.47
LAW	1335	TIRUR - Provision of platform shelter for 4 bays' length on PF No. 2/3 (2 each on both ends) (id : 1689/08-09) CE/OL	44.49
LAW	1336	WALAYAR : Extension of existing high level platform No. 1 as high level for 200 m (to hold 18 coaches) (id : 1688/08-09), CE/OL.	37.72
LAW	1339	PALAGHAT DIVISION : Provision of Galvalume sheet based PF shelters at CLT, CAN & TIR. (id : 1511/09-10) CE/OL	99.00
LAW	1345	TIRUR - Raising of PF No. 2/3 (550 m) from medium level to high level (id : 1517/09-10) CE/OL	86.85
LAW	1349	MANGALORE Jn. - Provision of CC apron on line of PF No. 1 for a length of 424 m (id : 1521/09-10) CE/OL ..	95.30
LAW	1353	PALAGHAT DIVISION - Upgradation of passenger amenities at Vallikunnu Station (id : 1525/09-10) CE/OL ..	50.00
LAW	1356	ALLEPPEY - Improvements to surfacing of Platform No. 1 (id : 1946/07-08) CE/OL	49.00
LAW	1357	ALWAYE - Provision of a new Upper Class Waiting room and shifting of PRS center (id : 1947/07-08) CE/OL..	62.50
LAW	1358	CHENGANNUR - Reroofing of station building and provision of VRR (id : 999/03-04) CE/OL	19.00
LAW	1359	CHENGANNUR - Provision of VIP lounge, upper class waiting room, SMR's room and raising of platform No. 2 & 3 (id : 1302/06-07), CE/OL.	49.50
LAW	1361	ERNAKULAM Jn. - Extension of foot over bridge to eastern side for 2nd entry (Karshaka Road side) (id : 248/PB 98-99, CE/OL)	63.50
LAW	1362	ERNAKULAM Jn. - Provision of ladies waiting room provision of 80 m. shelter on PF No. 4/5 (id : 1306/06-07), CE/OL	49.50
LAW	1364	ERNAKULAM TOWN and ALWAYE - Raising of PF 2 (1305/06-07) CE/OL	49.50
LAW	1367	NAGERCOIL Jn. - Provision of shelter for a length of 32 m - 4 Nos. - one each end of PF No. 1 & 2 for AC coaches (id : 1954/07-08) CE/OL.	46.50
LAW	1369	NAGERCOIL Jn. - Construction of new booking office and raising of platform No. 1 (id : 1307/06-07) CE/OL	49.50
LAW	1372	TIRUVANANTHAPURAM COACHING DEPOT - Provision of carriage watering arrangements between Road 14 & 15 for platform turn round attention (id : 1700/08-09) CE/OL	26.50
LAW	1373	TRICHUR - Provision of second entry for Passengers on goods shed side by providing extension to FOB & Booking counters (id : 1956/07-08) CE/OL.	52.60
LAW	1381	TIRUVANANTHAPURAM DIVISION - Provision of 32 m each of platform shelter for AC coaches at 6 locations, viz., KYJ, TRVL, CGY, TRTR (id : 1965/07-08) CE/OL.	49.00
LAW	1382	TIRUVANANTHAPURAM DIVISION - Provision of recommended level of platform shelter at PASA, NYY, MQO, CHPD (ID : 1969/07-08) CE/OL.	49.50
LAW	1383	TIRUVANANTHAPURAM DIVISION - Provision of PF shelter for a length of 32 m each for A/C coaches at AFK, CKI, IJK & GUV - (id : 1969/07-08), CE/OL.	46.00
LAW	1384	TIRUVANANTHAPURAM DIVISION - Provision of PF shelter for a length of 32 m each at VLY, AAY, ERL & NEM (id : 1970/07-08), CE/OL.	42.00
LAW	1403	CHIDAMBARAM - Re- construction of cracked station building (id : 435/PB 02-03), CE/OL	67.13
LAW	1404	NAGAPPATTINAM - Touch and feel concept improvement to concourse, station building and circulating area (id : 1971/07-08) CE/OL.	44.53
LAW	1412	TIRUCHCHIRAPPALLI Jn. - Provision of Platform shelter at PF No. 1A, 2 & 3 (id : 1989/07-08) CE/OL.	42.00
LAW	1423	DINDIGUL - KOVILPATTI & VIRUDUNAGAR - Upgradation as model stations (id : 1989/07-08) CE/OL.	150.00
LAW	1424	KOVILPATTI - Provision of Vacuum dewatered concrete including granite flooring on PF No. 1 (id : 1993/07-08), CE/OL	34.90
LAW	1427	MADURAI Jn. - Remodelling of station building and provision of greeneries in circulating area (id : 1329/06-07) CE/OL	49.95
LAW	1428	MADURAI DIVISION - Extension of Platform to hold 24 bogies at SVPT, SNKL & KDNL and extension of PF to hold 20 bogies at VPJ (id 1994/07-08) CE/OL.	49.81
LAW	1433	MADURAI Dn. - Extension of concourse to accommodate additional passenger amenities (id : 1999/07-08) CE/OL	49.75
LAW	1435	MADURAI Jn. - Second entry - Remodelling of booking counter, PRS, approach road, etc. (id : 2001/07-08) CE/OL	48.34
LAW	1438	RAMESWARAM STATION - Improvements to circulating area by resisting structures, Construction of waiting room, etc. to make it as a model station. (id : 2002/07-08), CE/OL	45.50
LAW	1451	MADURAI Jn. - Proposed CC apron in one platform (id : 1556/09-10) CE/OL	65.00
		Total ..	3611.30

II. Passenger Amenity Works in Progress during 2010-11

Sl. No.	Name of Work	Cost in ₹ Lakhs
1	Basin Bridge – Augmentation of water supply arrangement by installation of recycling plant & electronic monitoring system.	350.00
2	Coimbatore – 2nd subway from main entry side connecting platforms 1 to 4	375.11
3	Ambur & Jolarpettai – Upgradation as model stations	355.00
4	Nagercoil Jn., Alleppey, Trichur, Ernakulam Jn. & Ernakulam Town – Upgradation of model stations.. .. .	600.00
5	Madurai Jn. – Escalators at platform Nos. 1, 2, 3, & 8 (3 Nos.)	452.04
6	Sulurpeta – Gummidipundi & Tiruvallur – Arakkonam – Extension of platforms for 12-car electrical multiple units	333.18
7	Southern Railway – Escalators at major stations (4 Nos.) (2 stations) TVC-2, ERS-2	280.00
8	Palaghat and Trivandrum Divisions – Raising of rail and medium level platforms to high level (B category-3 and D category-24 stations). B - Category stations - Tirur, Changanacheri & Varkala. D - Category stations- Charvathur, Kannapuram, Kottikula.	1620.00
9	Trichchirappalli and Madurai divisions – Raising of rail and medium level platforms to high level (B category - 3 and D category - 19-stations). B-Category stations - Kumbakonam, Mayiladuthurai, & Tenkasi. D Category stations - Nagappattinam, Nagore.	1320.00
10	Chennai & Salem Division – Raising of rail and medium level platforms to high level (B category - 2 and D category - 13 stations). MAS Dn. B - category stations – Ambur & Melmaruvathur, D - category stations – Gudiyatham, Kattankulathur, Nayudupeta, Singaperu.	900.00
11	Southern Railway – Platform shelter (2 Nos. - B category stations and 23 Nos. - D category stations). SA Divn. - Kulithalai, Pugalur, Sankaridurg. PGT Divn. – Divn. Angadipuram, Nileshwar, TVC Divn. - Ambalapuzha, Haripad, Nanguneri, P.	341.97
12	Palaghat and Trivandrum Divisions – Foot over bridges (10 Nos.) (D category stations) PGT Dn. :- (6) Angadipuram, Kannapuram, Nilumbur Road, Nileshwar, Palakkad Town, Parappanangadi, TVC Dn. :- (4) Eraniel, Kulithurai, Nanguneri, Valliyur.	331.00
13	Chennai and Salem Division – Foot over bridges (5 Nos.) (D category stations) Kanchipuram, Perungalathur, Sholingur, Kulithalai & Shankaridurg.	330.00
14	Thiruchchirappalli and Madurai divisions – Foot over bridges (8 Nos.) (D category stations). Pattukottai, Srirangam, Tiruverumbur, Pudukottai, Rameswaram, Rajapalayam, Sattur, Udumalaipettai.	264.88
15	Chennai Division : Elimination of deficiencies in minimum essential passenger amenities at various stations (Phase-II)..	259.96
16	Madurai – Augmentation of water supply by waterhead works at Vaigai river-bed near Sholavandan.	884.00
17	Varakala, Paravur & Quilon Jn. – Improvement to passenger amenities.	300.00
18	Alleppey, Shertalai & Turavur – Improvement to passenger amenities.	370.00
19	Chennai Division – Improvement to Adarsh stations (8 stations)	660.00
20	Kannur, Vadakara, Thalassery & Tirur – Provision/Improvement to passenger amenities.. .. .	782.00
21	Thiruvananthapuram Division – Raising/extension of platforms (17 stations)	1431.00
22	Kozhikkode – 2nd foot over bridge at Shoranur end connecting platform Nos. 1, 2/3 & 4	567.00
23	Karakad, Bekal Fort, Vallikunnu & Trikarpur – Foot over bridge	286.00
24	Southern Railway – Escalators at major stations (4 escalators at 2 stations – CBE-2, CLT-2)	280.00
25	Palakkad Division – Foot over bridges (5 stations)	316.80
26	Ennore, Attipattu, Anuppampattu, Kavaraipettai & Elavur – Repl of steel foot over bridges	470.00
27	Thiruvananthapuram Division – Extension of platforms for holding longest stopping trains	410.00
28	Thiruvananthapuram – Addl. foot over bridge (5 m wide) at Nagercoil Jn. end.. .. .	298.00
29	ARAKKONAM – JOLARPETTAI Sec. – Extension of FOB on south side of WJR station and extension of FOB at north side colony at Katpadi Junction. (id : 1021/05-06), CE/OL	36.59
30	AVADI : Provision of Automatic Public Announcing System using GPS-cabin control units in 18 EMU rakes to improve better amenities to passengers (id : 1667/08-09), CE/OL	44.90
31	BASIN BRIDGE :-Provision of PF shelter IRS type 2x32m on PF. 1, 3 X 32m on PF 4 & 5 and provision of benches(id:943/03-04) CE/OL	28.72
32	CHENGALPET – Expansion of booking office and new PRS building. (id: 1898/07-08), CE/OL	49.17

Sl. No.	Name of Work	Cost in ₹ Lakhs
33	CHENGALPET – Replacement of the existing High level tank (MS tank over rail staging size 8' 0"x4' 0") with new steel Tank of 1 lakh lit. (id: 1025/05-06), CE/OL	28.41
34	CHENNAI – ARAKKONAM SEC : Provision of FOB at Annanur (halt station)OT 2004-05)CE/OL	28.72
35	CHENNAI – ARAKKONAM SEC : Provision of FOB at Egattur (halt station)OT 2004-05)CE/OL	31.22
36	CHENNAI – GUDUR SEC : Provision of IRS type Platform shelter at Attipattu Pudunagar (2x32m) and Arambakkam Stations. (2 Nos.) (OT 2004-05) CE/OL	15.69
37	CHENNAI – GUDUR SEC : Raising and paving of PF 4 & 5, 6 & 7 at BBQ and provision of shelter and paving of up an down PF at VOC nagar (id ; 1899/07-08), CE/OL	48.45
38	CHENNAI BEACH – Improvements to circulating area and concourse. (id : 1900/07-08), CE/OL.	27.41
39	CHENNAI BEACH – Provision of PRS building (id : 1675/08-09), CE/OL.	48.68
40	CHENNAI CENTRAL : Developing green building concept covering energy conservation aspects - Phase I. (id : 1669/08-09), CE/OL.	49.46
41	CHENNAI CENTRAL : Laying of CC apron on PF No. 1, 2A, 3 4 & 5. CE/OL.	29.13
42	CHENNAI CENTRAL – Proposed high pressure jet cleaning plant at platforms. (id : 1030/05-06); CE/OL.	25.60
43	CHENNAI CENTRAL – Developing green building concept covering civil engineering aspects Phase I. (id : 1670/08–09), CE/OL.	28.46
44	CHENNAI EGMORE – Developing green building concept covering energy conservation aspects – Phase I. (id : 1671/08–09), CE/OL.	49.66
45	CHENNAI EGMORE – Developing green building concept covering civil engineering aspects Phase I. (id : 1672/08–09), CE/OL.	32.43
46	CHENNAI MRTS Section – Improvements to water pipelines, PF granite benches and circulating area at MPKT, MCPT, MCPK, MTCN & MLHS & MTMY (id : 1909/07–08), CE/OL.	44.58
47	CHENNAI PARK STATION – Provision of FOB (id : 1270/06-07), CE/OL.	47.24
48	GUINDY – Extension of PF to accommodate 24 coaches (id : OT 4/06-07), CE/OL.	49.95
49	GUMMIDIPUNDI – GUDUR SEC. :Provision of FOB @ Akkampet halt stn. (OT 2004-05) CE/OL	28.99
50	KATPADI – Platform Shelter at island platform 2 & 3 at JTJ end and paving of platform by vaccum dewatering. (id : 1272/06-07), CE/OL	29.56
51	KATPADI – Provision of PF shelter on island PF 4 & 5 (3x16m) 10 mtr wide – 2Nos. (id : 1911/07-08), CE/OL..	38.94
52	KORATTUR : Extension of FOB across quadruple lines. (id : 1067/02-03), CE/OL.	23.76
53	MAMBALAM – Improvement as Model Station (id:1098/LAW 01-02) CE/OL.	55.89
54	MUKUNDARAYAPURAM – Provision of PF shelter on Up loop line and down loop line (id:955/03-04) CE/OL.	37.13
55	PUTLUR & SEVVAPET ROAD - Provision of PF shelter 1x32m on up and down platforms (id:1913/07-08) CE/OL.	28.46
56	TAMBARAM - Provision of escalators (2 Nos) (id: 1678/ 08-09), CE /OL.	160.00
57	VEPPAMPATTU & TIRUNINRAVUR - Provision of PF shelter 1x32m on up and down platforms (id:962/03-04) CE/OL.	28.46
58	CHENNAI EGMORE - Provision of new FOB connecting PF No.5 to PF No.9 with roofing arrangements.(Id:1495/09-10)CE/OL.	87.00
59	ANVARDIKANPETTAI - Extension of Up & Down high level platforms to hold 24 bogies.(Id:1496/09-10)CE/OL.	62.00
60	ARAKKONAM - JOLARPETTAI Section - Widening of PF No.1, CC paving of PF No.1, 2 & 3 at Sholinghur and provision of CC tiles on FOB and ramp at Katpadi.(Id:1497/09-10)CE/OL.	74.00
61	CHENNAI CENTRAL - Replacement of existing AC sheets with galvalume sheets including replacement with aluminium gutters for platform Nos. 1, 2 & 2A.(Id:1498/09-10)CE/OL.	98.85
62	CHENNAI BEACH - Improvements to platform surface at PF No. 5&6 with vacuum dewatered concrete.(Id:1499/09-10)CE/OL.	45.01
63	CHENNAI BEACH -VILLUPURAM Section - Replacement of existing damaged AC sheets with galvalume sheets at FOBs of Pallavaram, Chennai Fort, Mambalam and Tambaram stations.(Id:1500/09-10)CE/OL.	95.00
64	CHENNAI DIVISION - MAS-GDR section - Provision of 150mm dia borewell and RCC OHT of 30000 litres capacity at KVP, RCC OHT of 50000 litres capacity one each at PON & GPD, PVC tank of 10000 litres capacity at NYP including pumping arrangements.(Id:1501/09-10) CE/OL.	55.00
65	MOORE MARKET COMPLEX - Provision of CC TV cameras.(Id:1502/09-10)CSTE.	49.47

Sl. No.	Name of Work	Cost in ₹ Lakhs
66	EKAMBARAKUPPAM - Extension of medium level platform on up line side & raising of platform from RL to ML on down line side and extension of RCC retaining wall in between up & down lines.(Id:1503/09-10)CE/OL.	77.00
67	CHENNAI DIVISION -Provision of purified drinking water to stations through water treatment systems.(Id:1504/09-10)CE/OL.	30.00
68	KARUR - Strengthening of column and beams by epoxy treatment in station building, improvements to approach road, provision of drainage arrangements and construction of boundary wall(id:1685 / 08-09), CE /OL	45.60
69	KARUR - Retiring room, Provision of PF shelter for 32 m each on PF 1 & 2.(Id:975/03-04)CE/OL.. ..	21.33
70	SALEM DIVISION - Provision of drinking water facilities at Goodsheds of SA, SAMT,ED,IGU, PLMD & CBF(id: 1679/ 08-09), CE /OL	49.50
71	SALEM Jn. - Provision of CC apron on line of platform No.2 for a length of 540 m(id: 1686/ 08-09), CE /OL.. ..	60.00
72	TIRUPPUR and COIMBATORE - Provision of coach guidance on 2 platform each. (id: 1301 / 06-07), CE/OL ..	49.99
73	ERODE & TIRUPPUR - Provision of cable trays for the electrical cables to ensure safety and give aesthetic look.(Id:1505/ 09-10) CEE.	25.00
74	SALEM DIVISION - Provision of purified drinking water to stations through water treatment systems.(Id:1506/09-10)CE/OL.	20.00
75	BOMMIDI - Extension of PF No.1 for 295 m and PF No.2 & 3 (island) for 150 m to accommodate 24 coach trains including slewing of track, relocation of OHE mast for length of 650 m.(Id:1507/09-10)CE/OL.	246.26
76	COIMBATORE Jn. - Improvement to circulating area at Eastern side and Western side.(Id:1508/09-10)CE/OL.	172.72
77	CALICUT - Over head tank 90000 litres capacity and provision of one open well 6.1 m dia 9.00 m deep. (id:1281 / 06-07), CE/OL	34.21
78	CANNANORE -Construction of secondary entry booking office and shifting of PRS centre (id: 1284 / 06-07), CE/OL	47.50
79	MANGALORE and KANKANADI - Augmentation of water supply in carriage watering area including over head tank and water treatment plant. (id: 1292 / 06-07), CE/OL	81.29
80	NILESHWAR - Provision of Foot over Bridge (22 m long x 3 m wide)(id: 1691/ 08-09), CE /OL	75.30
81	PARAPPANANGADI - New Booking Office with 4 counters for installation of UTS with concourse and one counter for PRS in future.(id: 1929/07-08), CE/OL	50.83
82	PALAKKAD DIVISION -Upgradation of passenger amenities in SRR -NIL area (except AAM)(Id:1509/09-10)CE/OL...	99.00
83	PALAKKAD DIVISION -Upgradation of passenger amenities at Kannur station.(Id:1510/09-10)CE/OL.	99.00
84	PALAKKAD DIVISION -Upgradation of passenger amenity works at BDJ & TLY.(Id:1512/09-10)CE/OL.	99.00
85	PALAKKAD DIVISION -Upgradation of passenger amenity works at KTU .(Id:1513/09-10)CE/OL.	50.00
86	PPALAKKAD DIVISION -Provision of new station building and other passenger amenities at AAM.(Id:1514/09-10)CE/OL.	99.00
87	PALAKKAD DIVISION - Provision of second FOB and PF watering arrangements at MAQ.(Id:1515/09-10)CE/OL.	94.00
88	MANGALORE CENTRAL - Construction of booking office with 4 counters , Development of circulating area and vehicle parking at second entry.(Id:1516/09-10)CE/OL.	74.60
89	CHARAVATTUR & QUILANDI - Proposed roof covering of FOB.(Id:1518/09-10)CE/OL.	13.45
90	SHORANUR - Improvements to water supply arrangements to station and platform at Shoranur Jn. including replacing of distribution pipes in SRR yard.(Id:1519/09-10)CE/OL.	99.99
91	PALAKKAD DIVISION - Provision of purified drinking water to stations through water treatment systems.(Id:1520/09-10)CE/OL.	48.80
92	TIRUR - Upgradation of passenger amenities and facilities.(Id:1522/09-10)CE/OL.	99.00
93	TIRUR STATION - Provision of Coach Guidance system on platform No.1 & 2.(Id:1523/09-10)CSTE.	67.75
94	PALAKKAD DIVISION - Provision of LCD TV at waiting rooms of A & B class stations (b) Counter communication system at information centres and enquiry counters (c) Provision of computerized announcement system at 3 stations (d) extension of PA system to se	40.72

Sl. No.	Name of Work.	Cost in ₹ Lakhs
95	CALICUT- Provision of CC apron on line of PF No.3 for a length of 540 m.(Id:1526/09-10)CE/OL.	65.00
96	KOZHICODE - Provision of Passenger Lift at PF Nos.1, 2/3 and 4 – 3 nos.(Id:OT/2/09-10)CEE.	84.95
97	ERNAKULAM Jn. - Paving of platform no.2/3 with kota stone or similar flooring.(Id: 1695/ 08-09), CE /OL	49.00
98	ERNAKULAM TOWN & KAYANKULAM - Model stations - Provision of additional waiting rooms (id: 1950/07-08), CE/OL	49.00
99	KAYANKULAM - Upgradation of amenities as model station (id: 1951/07-08), CE/OL	205.00
100	MAYYANAD - Provision of Foot Over Bridge.(id: 1696/ 08-09), CE /OL	45.00
101	NAGERCOIL Jn. - Provision of carriage watering arrangement between road no. 8 & 9 for rake maintenance in pit line No.1 (Road No.9)(id: 1697/ 08-09), CE /OL	26.50
102	NANGUNERI & ARALVAYMOLI - Provision of waiting rooms.(id:1698 / 08-09), CE /OL	49.00
103	TIRUVANANTHAPURAM Coaching Depot - Provision of carriage watering arrangement between Road No. 12 & 13.(id: 1699/ 08-09), CE /OL.	36.50
104	TRICHUR & NAGERCOIL - Model stations - Provision of additional waiting-rooms (id: 1957/07-08), CE/OL	49.00
105	TRIVANDRUM DIVISION -Emergency lights for all PF at NCJ, TVC, QLN, KTYM, ERS, ERN, AWY & TCR (id: 1959/07-08), CEE	49.00
106	TRIVANDRUM DIVISION - Extension of PF No.1 at AMVA, VRLR, SUCH, THX, NPK, KZTW, SGLM & MP to accommodate the longest stopping trains. (id: 1961/07-08), CE/OL.	51.90
107	TRIVANDRUM DIVISION - Extension of platform No.1 at VE, 1 & 2 at KXP, 1 & 2 at EVA, 1 & 2 at KFI, 1 & 2 at PGZ, 1 & 2 at IRP. (id: 1962/07-08), CE/OL.	49.90
108	TRIVANDRUM DIVISION - Extension of platforms to hold 24 bogies (3 stations) (id: 1963/07-08), CE/OL.	200.00
109	ERNAKULAM Jn. - Raising of PF 4/5 from medium to high level.(Id:1527/09-10)CE/OL.	77.50
110	TRIVANDRUM DIVISION - Provision of Shelter in PF 2&3, at PVU and PF 1 and PF 2 at CRY.(Id:1528/09-10)CE/OL...	74.00
111	MUNROTURUTTU - Proposed rebuilding station building.(Id:1529/09-10)CE/OL.	49.50
112	CHENGANNUR - Pilgrim complex. Developing low lying area near RPF station.(Id:1530/09-10)CE/OL.	95.00
113	GURUVAYUR - Water supply arrangement, replacement of defective pipe lines.(Id:1531/09-10)CE/OL.	56.00
114	CHALAKUDI - Water supply arrangement - Provision of OHT.(Id:1532/09-10)CE/OL.	68.50
115	ERNAKULAM TOWN - Additional shelter for a length of 64 m over PF stalls.(Id:1533/09-10)CE/OL.	40.00
116	KULITTURAI - Provision of Shelter 64 m each in PF 1 and PF 2.(Id:1534/09-10)CE/OL.	72.00
117	KANNIYAKUMARI & NAGERCOIL Jn. - Surfacing of Platform PF 1 at CAPE and PF 2&3 at NCJ with vacuum dewatered concrete to facilitate mechanized cleaning.(Id:1535/09-10)CE/OL.	92.50
118	ALUVA - Provision of Shelter 64 m each in PF 1,2&3.(Id:1536/09-10)CE/OL.	74.00
119	ERNAKULAM Jn. - Provision of Shelter in PF 4&5.(Id:1537/09-10)CE/OL.	74.00
120	TRIPUNITTURA - Provision of Shelter 64 m each in PF 1 and PF 2.(Id:1538/09-10)CE/OL.	74.00
121	KARUNAGAPALLI - Provision of Shelter in PF 1,2.(Id:1539/09-10)CE/OL.	36.00
122	VALLIYUR & KULITTURAI - Waiting rooms.(Id:1540/09-10)CE/OL.	83.00
123	TRIVANDRUM DIVISION - Provision of purified drinking water to stations through water treatment systems.(Id:1541/09-10)CE/OL.	20.00
124	TRIVANDRUM DIVISION - Provision of FOB at KCVL connecting PFs, main entry & second entry.(Id:1542/09-10)CE/OL.	248.00
125	ARIYALUR – Augmentation of potable water supply by providing one infiltration gallery, renewal of pumping main 150 mm dia for. (id: 1081/05-06), CE/OL.	28.50
126	ARIYALUR – Raising of PF (island) and alteration to existing station building (id: OT 3 / 06 - 07, CE/OL)	47.42

Sl. No.	Name of Work	Cost in ₹ Lakhs
127	THANJAVUR - Extension of FOB to PF No.1 (id: 1975/07-08), CE/OL.	40.00
128	THANJAVUR - Proposed CC apron at platform No.3.(id: 1703/ 08-09), CE /OL.	60.00
129	THANJAVUR & VILLUPURAM - Upgradation as model stations (id: 1977/07-08), CE/OL..	100.00
130	THANJAVUR Jn - Extension and raising of PF No.1 for 24 coach length. (id: 1978/07-08), CE/OL..	49.77
131	TIRUCHCHIRAPPALLI - Improvements to parcel offices at KMU, PDY, MV & TVR (id: 1979/07-08), CE/OL. ..	49.64
132	TIRUCHCHIRAPPALLI Jn. - Improvement to yard drainage with collection well and pumping arrangements at MDU end. Renewal of carriage side filling hydrants for road No.1, 3, 4 and provision of dedicated water main for station as per works manual.(id: 1702/08-09) CE/OL.	49.30
133	TIRUCHCHIRAPPALLI Jn. - Provision of PF shelter at 6 bays on PF No2 and 3 at GOC end (id: 1983/07-08), CE/OL...	42.00
134	TIRUVERUMBUR - Provision of FOB connecting station building and BG platform.(id: 1087/05-06), CE/OL...	29.50
135	VILLUPURAM - Rebuilding of station building, waiting hall, platform shelter & improvements to circulating area (id: 448/ PB 03-04), CAO/CN.	194.94
136	VILLUPURAM Jn. - Improvements to passenger amenities under touch and feel items (id: 1985/07-08), CCM/PS ..	48.76
137	VIRUDHACHALAM - Upgradation and beautification of passenger amenities (id: 1325 /06-07), CE/OL. ..	49.90
138	VIRUDHACHALAM Jn - Provision of high level PF for PF No. 2(id: 1986/07-08), CE/OL..	48.34
139	TIRUCHCHIRAPPALLI Jn. - Improvement to approach road from Railway Institute end to parcel office leading to station building.(id:1543/09-10)CE/OL.	68.50
140	PUDUCHERRY - Provision of IRS type PF shelter in 3 bays at PF 1 at VM end, 2 bays on PF 2 and raising and improvements to PF surface.(id:1544/09-10)CE/OL.	84.70
141	VILLIYANUR(halt) - Provision of HL Platform, Halt station Building and Toilets.(id:1545/09-10)CE/OL. ..	33.50
142	TIRUCHCHIRAPPALLI DIVISION - Provision of Toilet facilities at various stations between Mayiladuthurai Jn. - Kumbakonam section and improvements to circulating area of KTM station.(id:1546/09-10)CE/OL.	31.50
143	TIRUCHCHIRAPPALLI DIVISION - Provision of purified drinking water to stations through water treatment systems.(id:1547/09-10)CE/OL.	20.00
144	KOVILPATTI STATION - Provision of passenger shelter for 6 bays in PF No.1 and 6 bays in PF No.2&3.(id: 1708/ 08-09), CE /OL.	40.25
145	KOVILPATTI - Remodelling of station building and provision of greeneries in circulating area (id:1328 /06-07), CE/OL.	49.50
146	MADURAI DIVISION - Provision of standard signages at TEN, TN, DG, VPT CVP and remaining platforms at MDU. (id: 1332 / 06-07), CE/OL.	49.92
147	MADURAI Jn. - Construction of new Parcel Office complex (id: 1995/07-08), CE/OL. ..	48.00
148	MADURAI Jn. -Replacement of damaged jackarch roof by RCC roof and remodelling the VRR building.(id: 1706/ 08-09), CE /OL.	21.18
149	MADURAI Jn. - Reconstruction of RPF escort room and dormitory to augment space for the widening of PF1.(id: 1707/ 08-09), CE /OL.	32.08
150	MADURAI Jn. - Proposed relocation of Cloak room and information centre to augment additional width of PF1.(id: 1705/ 08-09), CE /OL.	20.60
151	MADURAI Jn. - Construction of Airconditioned passenger waiting hall at PF.1.(id:1704 / 08-09), CE /OL ..	30.05
152	RAJAPALAYAM - Provision of FOB (id:1333 / 06-07), CE/OL. ..	45.00
153	TIRUNELVELI Jn - Provision of passenger shelter for 6 days in PF No.2&3.(id: 1709/ 08-09), CE /OL ..	43.48
154	TUTICORIN STATION - Provision of passenger shelter for 6 bays in PF No.2&3.(id: 1710/ 08-09), CE /OL ..	42.33
155	TUTICORIN - Remodelling of station building and provision of greeneries in circulating area (id:1335 / 06-07), CE/OL	49.50

Sl. No.	Name of Work	Cost in ₹ Lakhs
156	VIRUDHUNAGAR - Remodelling of station building and provision of greeneries in circulating area (Id:1336 / 06-07), CE/OL	49.75
157	TIRUNELVELI Jn- Provision of vacuum dewatered concrete flooring on PF No. 3.(Id:1548/09-10)CE/OL	75.00
158	RAMESWARAM - Provision of new second class waiting hall and VRR-cum-dining hall.(Id:1549/09-10)CE/OL ..	80.00
159	MADURAI DIVISION - SVKS, TN, CVP, KDU, TDN, TSI: Pro.of 6 bays of Passenger shelter in each stations.(Id:1550/09-10)CE/OL.	87.96
160	MADURAI DIVISION - TPJ-DG-MDU Sec. Provision of low level shelters 4 days each at stations KLS,AYR,VPJ,VDM and TMP and 5 bays each at stations ABI, KQN, VDP, SER.(Id:1551/09-10)CE/OL.	96.90
161	MADURAI DIVISION - TPJ-MNM Section : Provision of light weight shelters 4 bays each at 8 stations.(Id:1552/09-10)CE/OL.	76.24
162	MADURAI Jn. - Proposed CC apron to platform line at PF No.3.(Id:1553/09-10)CE/OL.	81.61
163	RAMESWARAM - Construction of ticket examiners' rest room with 12 beds in cubicle partition, study room, kitchen etc.(Id:1554/09-10)CE/OL.	25.00
164	MADURAI DIVISION - Provision of purified drinking water in all modern stations in MDU Division two Nos in each station (MDU, DG, VPT, ,KKDI, RMM, TEN, TN, PLNI, TSI)(Id:1555/09-10)CE/OL.	40.00
165	CHENNAI DIVISION - (MSB-TBM section) - Provision of new elevated booking office at Mambalam on Eastern side.	210.00
166	CHENNAI DIVISION - Provision of new foot over bridge connecting left hand side circulating area to PF No.6 at Egmore.	160.66
167	CHENNAI - ARAKKONAM Section - Extension of the existing FOB at Pattabiram and Vyasarpadi Jeeva stations.	224.40
168	CHENNAI - ARAKKONAM Section - Provision of station building at PER,PCW,PEW,AVD & NEC, elevated level booking office at TI, CBE PF shelters with seating arrangements at AVD,PAB,NEC,VEU,SVR & TRL and pay & use toilet at VEU & NEC.	194.00
169	CHENNAI - ARAKKONAM Section - Extension of the existing FOB at HC and ANNR station.	170.40
170	CHENNAI EGMORE - Improvements to platform surfaces with vacuum dewatered concrete, Replacement of existing broken AC sheets with galvalume sheets in station building incl.rearrangement of trolley path and provision of parcel office platform and compound.	151.00
171	CHENNAI CENTRAL & MOORE MARKET COMPLEX - Replacements of existing broken AC sheets with Non-asbestos colour sheets in high roof of old concourse,with galvalume sheets in PF No.6 to 9 & 14 and exg.gutters with aluminium gutters in PF Nos.6 to 9.	187.70
172	CHENNAI EGMORE - Improvements to yard drainage arrangements.	163.70
173	CHENNAI -GUDUR Section: Provision of new FOB 3.0 m wide in lieu of the existing corroded FOB at TVT and ENR.	190.24
174	CHENNAI Dn: Provision of elevated level booking office at MKK, GDY & STM, improvement to booking offices at MSF, MPK, MSC, MKK, MBM, SP, GDYY, STM, MN & TBMs, provision of pay and use toilet at MSF, PZA & TBMs	188.00
175	CHENNAI CENTRAL: Renewal of corroded pipelines and separation of Raw water and potable water pipelines and providing additional storage tanks for PF taps drinking water.	124.20
176	CHENNAI BEACH-VILLUPURAM section: Provision of IRS type PF shelters at stations TBM, PV, GI, VDR & STM	185.40
177	CHENNAI CENTRAL: Provision of coach indication boards and at a glance boards (PF No.1,2,2A,3,4,5,6,7,8,9,10 & 11)	144.74
178	CHENNAI CENTRAL: Provision of 10 lakh litre GLR incl.replacement of existing corroded water supply pipelines.	169.60
179	CHENNAI Dn: Replacement of existing PS/CI tanks with RCC tanks - 1lakh litres capacity at CGL, TMV & TBM stations, 50000 litres at MJR, WST, TNPM, 30000 litres at RPM, TNPM, MLPM including augmentation of water supply arrangements.	143.00
180	ADEN/KRR Sub Dn: (i) Extension of PF No.1- Rail level to medium level 190 mts length at URL and extension of PF No.1 medium level 295 mts length MPLM, PAS & CVD.	163.87
181	ADEN/ED Sub Dn: (ii) Extension of pf length in ANU, CV, TPM, VZ (4 stations) & (ii) SGE - Raising of PF No.2 to high level.	179.20
182	BUDDIREDDIPPATTI - Proposed extension of PF 1 & 2 for 24 coach length and provision of FOB to connect PF 1 & 2.	190.20
183	SALEM Dn. : Provision of True colour LED display Boards over SA Division	192.70
184	COIMBATORE: Proposed PFshelter- 5 bay length at PF no.5 & 6 (CBF end) and light weight PF shelter base at PTJ, CBF, PLMD, SHI, IGU, SUU, SNO, VNJ at 6 per station	192.75

Sl. No.	Name of Work	Cost in ₹ Lakhs
185	TIRUPPUR: Proposed construction of second class waiting hall in PF No.2 (near RUB side) and improvements to second entry circulating area and proposed improvements to circulating area (balance work) and construction of staff qrs 10 units (type II).	162.80
186	SALEM Dn: Proposed widening and improvements to circulating area.	143.00
187	MAHE & QUILANDI - Provision of PF shelter 4 bays, 7.14m wide (IRS type) on Down line PF at MAQ end and improvements to PF surface by providing vacuum dewatering concrete on PF No.2 at QLD and provision of PF shelter 4 bays 7.14m wide (IRS type) on Up & Dn.	161.50
188	VADAKARA - Provision of PF shelter 4 bays, 7.14m wide (IRS type) on Down line PF at SRR end and 4 bays, 12.30m wide on Up line at SRR end.	103.00
189	KASARAGOD - Provision of PF shelter 3 bays, 7.14m wide (IRS type) on Down line PF at SRR end and 4 bays, 7.14m wide on Up line at SRR end and improvements to PF surface with vacuum dewatering concrete on PF No. 1 and construction of booking office with 4 cou.	163.50
190	TIRUR & UPPALA - Provision of second FOB at TIR and provision of FOB at UAA.	126.10
191	PALAKKAD DIVISION - Raising and extension of platform for 12 coach length at Vadanamkurushshi, Vallapuzha, Cherukara, Tuvvur and Vaniyambalam (5 stations)	161.00
192	VADAKARA - Extension and raising of PF No.2 to hold 24 coaches and construction of PF No.3 to hold 24 coaches.	148.00
193	SHORANUR: Provision of PF shelter 4 bays 11.50 m wide (IR type) on PF No.1 and on PF No.6/7 (2 bay each at PGT and MAQ ends) and 4 bay 8.00 m wide on PF No.1 and 3 bays 12.00 m wide on PF No.1 and passenger area dismantling existing ridge type roofing.	145.70
194	SHORANUR: Recontruction of PF No.1 for 8 coaches length and extension upto 14 coaches length as high level including platform surfacing with vacuum dewatering concrete.	118.00
195	NILAMBUR: Provision of new booking office and circulating area at second entry and high level PF with 18 coaches length including trolley path.	184.60
196	MANGALORE JN: Provision of PF shelter 4 bays 7.14 m wide on PF No.1 (IRS type) & improvements to PF surface with vacuum dewatering concrete on PF No.2 & 3.	110.50
197	PALAKKAD Dn: Provision of coach guidance system on PF No.4 at PGT, on PF No.1 & 2 at OTP & KTU.	181.31
198	CALICUT & SHORANUR Jn: Provision of coach guidance system on PF Nos. 2 & 4 at CLT, on PF No.2,3 & 6 at SRR.	161.20
199	PAYYANOOR & KANHANGAD : Provision of Coach Guidance system of both platforms.	149.00
200	MANGALORE JN & MANGALORE CENTRAL: Provision of coach guidance system of PF Nos.2 & 3 at MAQ and on PF No.2 at MAJN.	113.00
201	PALAKKED Dn: Provision of single line double face train arrival/departure display boards - 6 nos. at SRR, 3 Nos. each at OTP, KTU, PAY, CLT & KZE.	198.30
202	SHORANUR: Improvements to PF surface with vacuum dewatering concrete on PF No.6&7.	102.00
203	TRICHUR: Proposed improvements to second entry and ramp from the road into circulating area.	158.00
204	CHENGANUR: New booking office and parcel office complex.	146.00
205	TRIVANDRUM Dn: Provision of recommended level of PF shelter at STKT, MVLK & CGY.	162.00
206	TRIVANDRUM Dn: Improvements to approach roads and circulating area at Alappuzha, Ambalapuzha, Turavur.	118.50
207	TRIVANDRUM Dn: Improvements to approach roads and circulating area at MVLK, OCR, PRND & STKT.	115.00
208	TIRUCHCHIRAPPALLI: Provision of PF shelter on PF No.1 (4 bays IRS type) length of 64 m, and (ii) Provision of additional multilevel parking for two wheelers in main entry.	110.00
209	RAMESWARAM - Pro. of passenger shelter for 6 bays each on PF Nos. 2 & 3 and 4 & 5.	134.54
210	MADURAI Dn: Provision of 5 bays each PF shelters on PF No.1 at TEN & PF No.1,2,7 3 at VPT including PF surface improvements and provision of water taps in sheltered area.	144.94
211	MADURAI Jn: Provision of approach road to the new parcel office and additional parking area.	152.00
Total		30,784.39

11. Expenditure incurred on Passenger and Other Railway Users' amenities 2010-2011

(Figures in lakhs of ₹)

1	2	3	4	5
Details of basic amenities and additional facilities	Plan-head Passenger and Other Railway Users Amenities	Plan-head Computeri- sation	Other Plan heads like New Lines, Doubling etc.	Total
A. Basic Amenities—				
1. Proper booking arrangements.. ..	152	0	0	152
2. Waiting Hall	323	0	0	323
3. Benches	25	0	0	25
4. Suitable arrangements for Electric Lighting	57	0	0	57
5. Drinking water supply arrangements at stations	121	0	0	121
5(a) Drinking water supply arrangements in the trains	74	0	0	74
6. Platform with well maintained surface (Rail level platforms at flag stations)	340	0	0	340
7. Latrines	16	0	0	16
8. Shady trees	12	0	0	12
B. Additional facilities—				
1. Urinals	0	0	0	0
2. Platform Covers	584	0	0	584
3. Bath facilities	42	0	0	42
4. Water Coolers	94	0	0	94
5. Foot Over Bridges or Subways	389	0	0	389
6. Washable Aprons	109	0	0	109
7. Retiring Rooms & Rail Yatri Niwas	36	0	0	36
8. Refreshment Rooms, Base kitchens and Trolleys/Stalls for Catering & Vending.	0	0	0	0
9. Improved lighting and fans on platforms	201	0	0	201
10. Enquiry Offices, Train indicator Boards	314	0	0	314
11. Reservation Offices—Computerised Reservation.	30	744	0	774
12. Improvements to circulating area	731	0	0	731
13. Car, Tonga, Cycle stands	44	0	0	44
14. C. C., TV	0	0	0	0
15. Cushioning of Second Class Berths	0	0	0	0
16. Renovation/Remodelling of station buildings	169	0	0	169
17. Carriage Watering	61	0	0	61
18. Book Stalls	0	0	0	0
19. Raising, lengthening, widening and resurfacing of platforms	1049	0	0	1049
20. Public address system	43	0	0	43
21. Exhibition of Time-Table sheets on Glass Fronted Frames.. ..	108	0	0	108
22. Improvement to existing Carriages such as provision of Fans, improved lighting & lavatories, special insulation in roofs, bigger water tanks in Carriages, better fittings, etc.	57	0	0	57
23. Improved latrines	0	0	0	0
24. Miscellaneous improvements to existing amenities, viz., provision of seats, hedges, etc.,	706	0	0	706
C. Other Railway Users' amenities (for Goods sheds and Parcel Offices)—				
1. Arrangements for drinking water including water coolers, water trolleys etc.,	0	0	0	0
2. Waiting accommodation	32	0	0	32
3. Refreshment Rooms & Vendors Stalls	68	0	0	68
4. Latrines	72	0	0	72
5. Miscellaneous arrangements like provision of seats, hedges & shady trees	79	0	0	79
6. Lighting arrangements and provision of fans	52	0	0	52
7. Rest shelters for licensed porters	0	0	0	0
Grand Total	6190	744	0	6934

Statement of Actual Expenditure under Amenities for Staff for the year 2010-2011

Sl. No.	Description	(Figures in Thousands of ₹)		
		Gross	Credit	Net
1.	New Hospitals, Dispensaries, additions and improvements to existing ones	72,135	0	72,135
2.	New Schools, additions, alterations, improvements & additions to Existing ones.	2,302	0	2,302
3.	New Institutions, rest houses, sports grounds, reading rooms, Improvements & additions to existing ones.	5,788	0	5,788
4.	Provision and improvement of health and welfare works & maternity centres.	8,026	0	8,026
5.	Cooking arrangements for workshops canteens & rest houses for workmen.	630	0	630
6.	Provision and improvements of sanitation, water supply, road lighting and marketing facilities in Railway colonies.	25,615	0	25,615
7.	Improvements Alterations to Existing quarters whatever type ..	45,378	0	45,378
8.	Others Works	42,274	214	42,000
9.	Total Col. 1 to 8 (Staff Amenities)	20,2355	214	2,02,141
10.	Provision for Officers' Quarters	80,121	0	60,121
11.	Quarters for Class III Staff	69,583	0	69,583
12.	Quarters for Class IV Staff	25,047	409	24,636
13.	Total Col. 10 to 12 (Staff Quarters)	1,54,731	409	1,54,322
14.	Total Col. 9 +13	3,57,086	623	3,56,463
15.	Medical Expenses — J 200	13,66,328	0	1,66,328
16.	Health and welfare services — J 300	3,20,877	0	3,20,577
17.	Education — J 100.. ..	4,78,494	0	4,78,494
18.	Canteen and other staff amenities — J 400	54,513	0	54,513
19.	Staff Training — K 500	2,12,158	0	2,12,158
20.	Total Col. 15 to 19	24,32,370	0	24,32,370
21.	Grand Total Col. 14 + 20	27,89,458	623	27,88,833

12. Improvements carried out in the existing lower class carriages during 2010-11 : Nil

13. Passenger Traffic 2010-11

No. of stations functioning for Passenger traffic :

No. of City/Town Booking Offices Nil

No. of City/Town Booking Agencies 2

No. of Out Agencies 13

No. of Street Collection and Delivery services ..

No. of stations opened/closed for Passenger traffic :

No. of City/Town Booking Offices Nil

No. of City/Town Booking Agencies Nil

No. of Out-Agencies Nil

No. of Street Collection and Delivery services

No. of Halt as on 31-03-2011 *153

(* includes Halts closed under gauge conversion)

(i) Train halts converted in to flag/Block stations.. 1

North Panankudi Train Halt located between Valliyur and Aralvaymoli stations on Trivandrum Division converted into Block Station with effect from 24-01-2011

- (ii) Stations Opened/Closed for Passenger traffic Nil
- (iii) Block stations downgraded into flag/train halts Nil
- (iv) Train halts closed for passenger traffic .. 7
 1. Alwarkurichi Halt, 2. Karaikurichi Halt,
 3. Madathukulam, 4. Kizha Ambur Halt,
 5. Kalthuruty Halt, 6. Edapalayam Halt &
 7. Viravanallur Halt on Madurai Division
 has been closed due to closure of sections
 for Gauge conversion.
- (v) Train halts opened for passenger traffic .. Nil
- (vi) Train halts re-opened for passenger traffic .. Nil
- (vii) Flag stations down graded into train halt .. Nil

14. The converted BG Line opened for Passenger / Goods traffic during 2010-11 :—

Section	Division	Date of Opening	Opened for
Villupuram Jn. (VM) – Vellore Cannt. (VLR) Part of VM – KPD (BG) section	TPJ	25-6-2010 31-03-2011	Opened for Goods traffic. Opened for Passenger Traffic. The chargeable distance has been notified. (station in between VLR-KPD has already opened and notified).
Villupuram Jn. (VM) Cuddalore Port Jn. (CUP) BG section	TPJ	10-04-2010 23-04-2010	Opened for Goods traffic. Opened for Passenger traffic. The chargeable distance has been notified.
Cuddalore Port Jn. (CUP) – Mayiladuthurai Jn. (MV) BG section.	TPJ	10-04-2010 23-04-2010	Opened for Goods traffic. Opened for Passenger traffic. The chargeable distance has been notified.
Nagappattinam (NGT) – Valankanni (VLNK) New BG line.	TPJ	20-12-2010	New BG section is opened Passenger traffic. The chargeable distance has been notified.

Section	Division	Date of Opening	Opened for
Kollam (QLN) – Punalur (PUU) BG part of QLN-TSI section.	MDU	12-05-2010	Opened for Passenger traffic. The chargeable distance has been notified.
Idappalli (IPL) – Vallarpadam (VPDM) New BG branch line.	TVC	08-02-2011	New BG branch line is opened for Goods traffic.

15. Section/Line closed for Passenger traffic—

Section	Division	Date of Closing	Closed for
Punalur (PUU)– Sengottai (SCT) (MG) part of QLN – TSI section.	MDU	20-09-2010	All description of Traffic on account of BG conversion.
Madurai (MD) – Bodinayakkannur (BDNK) MG section.	MDU	01-01-2011	All description of Traffic on account of BG conversion.

Stations closed on PUU–SCT (MG) part of QLN–TSI section.

- | | |
|--------------------|-------|
| 1. Punalur | (PUU) |
| 2. Edamann | (EDN) |
| 3. Ottakkal | (OKL) |
| 4. Tenmalai | (TML) |
| 5. Edapalayam. H. | (EDP) |
| 6. Aryankavu | (AYV) |
| 7. Bhagavathipuram | (BJM) |
| 8. Sengottai | (SCT) |

Station closed on MDU – BDNK (MG) section

- | | |
|----------------------|--------|
| 1. Madurai | (MDU) |
| 2. Nagamalai West H. | (NGMW) |
| 3. Vadpalaniji | (VAJ) |
| 4. Karumathur H. | (KAMU) |
| 5. Sikkampatti H. | (SIK) |
| 6. Usilampatti | (USLP) |
| 7. Andipatti | (ADPT) |
| 8. Teni | (TE) |
| 9. Bodinayakkannur | (BDNK) |

15. Station opened / re-opened for Goods Traffic During 2010-11

Name of Station	Division	Date of Open	Opened for
Vadipatti (VDP) (BG)	MDU	27-05-2010	Opened for Out ward Automobile traffic in NMG/VPU rake in local and through booking.
		28-02-2011	Opened for Inward traffic also.
Nellikuppam (NPM) (BG)	TPJ	30-06-2010	Opened for full rake handling for Goods Traffic for both inward and outward in local and through booking.
Cuddalore Port Jn. (CUPJ) (BG)	TPJ	30-06-2010	Opened for full rake handling for Goods Traffic for both inward and outward in local and through booking.
Chidambaram (CDM) (BG)	TPJ	30-06-2010	Opened for full rake handling for Goods Traffic for both inward and outward in local and through booking.
Sirkazhi (SY) (BG)	TPJ	06-07-2010	Opened for full rake handling for Goods Traffic for both inward and outward in local and through booking.
Mundiambakkam (MYP) (BG)	MAS	15-09-2010	Opened for full rake handling for Goods Traffic for both inward and outward in local and through booking.
Tirukkivilur (TRK) (BG)	TPJ	19-10-2010	Opened for full rake handling for Goods Traffic for both inward and outward in local and through booking.
Tiruvannamalai (TNM) (BG)	TPJ	19-10-2010	Opened for full rake handling for Goods Traffic for both inward and outward in local and through booking.
Polur (PRL) (BG)	TPJ	19-10-2010	Opened for full rake handling for Goods Traffic for both inward and outward in local and through booking.
Elavur (ELR) (BG)	MAS	08-12-2010	Opened for inward Goods Traffic in wagon load and train load in local booking only for three months as a trial measure.

Station closed for Goods Traffic During 2010-11

Name of Station	Division	Date of Closing	Closed for
Palghat Town (PGTN) (BG)	PGT	21-12-2010	Closed for all description of Goods traffic.

16. Siding opened for goods traffic during 2010-11 (i.e. from 01-04-2010 to 31-03-2011)

Sl. No.	Name of siding	Serving Station	Type of siding and Gauge	Date of Opening	Remarks
1.	Chettinad international Coal Terminal siding.	Attipattu	Private (BG)	15-11-2010	.....
2.	Madras Cements Ltd., Private Siding.	Ariyalur	Private (BG)	13-01-2011	.....
3.	SICAL Iron ore Terminal Pvt. siding.	Attipattu	Private (BG)	08-02-2011	.....
4.	International Container Transhipment Terminal siding.	Vallarpadam	Private (BG)	08-02-2011

II. Siding closed for goods traffic during 2010-11 (i.e. from 01-04-2010 to 31-03-2011)

Sl. No.	Name of siding	Serving Station	Type of siding and Gauge	Date of Opening	Remarks
1.	MSEB Kundha Hydro Electric Scheme siding.	Karamadai	Private (BG)	01-04-2010	.....
2.	Binny Limited siding	Perambur	Assisted (BG)	11-06-2010	.....
3.	IOC Bottling Plant siding.	Karuppur	Private (BG)	15-09-2010	.....

XIV. SAFETY

The Safety Branch of the Railway was created based on the recommendations in the reports of 'Kunzru and Sikri committees' which inquired into certain serious accidents on the Indian Railway. The Safety Branch is essentially a department monitoring the safety performance of various departments and helping them to discharge their safety related functions effectively. The scope and functions of the Safety Department have been defined over the years and basically include the following :—

- (1) To sensitize all the concerned departments about the safety related issues.
- (2) To oversee all safety matters concerning train operations.
- (3) Identify safety susceptibilities and vulnerabilities based on various accidents and incidents occurring in the system.
- (4) To establish an effective response mechanism to handle situations arising out of the accidents.
- (5) To enable the departments to deliver the functions which make the above possible.

ACCIDENT STATISTICS

Trend of Train Accidents

(a) Consequential Accidents

Consequential accidents are train accidents associated with loss of human life or grievous injury, damage to railway property or interruption to rail traffic above the laid down threshold levels. The trend of consequential accidents for the last 5 years is given below :—

2006-07	2007-08	2008-09	2009-10	2010-11
16	12	9	5	6

The Indian Railways Corporate Safety Plan has laid down a target for bringing down the number of accidents per million train kilometer to 0.17 by the year 2013. The trend of the index for the past five years on Southern Railway is as follows and is well below the corporate safety index.

2005-06	2006-07	2007-08	2008-09	2009-10	2010-11
0.150	0.240	0.195	0.141	0.077	0.088

The Category-wise break-up of consequential train accidents for the past five years given below :—

Type of accidents	2006-07	2007-08	2008-09	2009-10	2010-11
Collision	0	0	1	1	0
Derailment	..	..	..	..	..
a) At stations	3	2	2	0	0
b) In mid-section.	1	2	1	3	3
LC accidents	..	..	..	..	..
a) Manned	0	0	0	0	0
b) Unmanned	11	6	5	1	3
Fire in trains	0	1	0	0	0
Miscellaneous	1	1	0	0	0
Total	16	12	9	5	6

There is an increase in the un-manned level crossing, i.e. 3 in 2010-11 vis-a-vis – 1 in 2009-10.

b. Indicative accidents

The number of indicative accidents shows a remarkable improvement during 2009-10, over the past four years. The trend of indicative accidents with category-wise break-up for the last 5 years is given below :—

Type of accidents	2006-07	2007-08	2008-09	2009-10	2010-11
Averted collision.	1	1	0	0	0
Train passing signal at danger.	2	3	3	2	0
Breach of block rules.	2	1	0	0	1
Total	5	5	3	2	1

SAFETY MEASURES

With the accent on maximizing the usage of existing assets for improving the loading, safety assumes prime importance. Corporate Safety Plan 2003-2013 provides the broad guidelines for improving safety and preventing accidents. Many of the safety measures are arising out of those guidelines.

(A) Railway Safety Review Committee Recommendations

Railway Safety Review Committee set up under the chairmanship of Justice H.R. Khanna, submitted a total of 278 recommendations under Part I and II of the report. Out of these, 240 have been accepted fully or partially by the Railway Board. Implementation of the accepted recommendations is in progress and a total of 150 recommendations have already been implemented till March 2009. 66 recommendations are not pertaining to Southern Railway. Implementation of remaining 24 accepted/partially accepted recommendations is at various stages depending upon availability of resources, success of trials, etc.

(B) High Level Committee on Disaster Management System:

A high level committee was constituted in September 2002 to review Disaster management system over Indian Railways and to give recommendations for its strengthening and streamlining. This committee has given 111 recommendations, 4 were deleted by Railway Board. All others have been accepted for implementation. 10 recommendations are not pertaining to Southern Railway. 83 recommendations have been implemented in Southern Railway up to March 2009 and balance recommendations are in various stages of implementation.

(C) Development of Human Resources

In view of the fact that a majority of accidents on Indian Railways have some link to human failure. The Railways are following the twin policy of development of human resources and providing better and fail-safe equipment. Development of human resources is a continuous process on the Railways. Some of the steps taken in this direction are:—

- 1) Initial and refresher training for staff, Training Curricula are reviewed from time-to-time and modern aids are used to give training to the staff. The duration of various courses have also been rationalized.
- 2) Uniform, standard training modules for Induction, Refresher and Promotional Courses for loco Running Staff have been introduced. Running staff are also given training in Yoga to keep them physically fit and mentally alert in carrying out their sensitive duties.
- 3) Staff connected with train operations are specially screened from time-to-time and those found deficient are given crash courses at the training Centres.

The Zonal Railway Training Institute at Tiruchchirappalli is the major institution for imparting training in train working rules and procedures to all staff concerned with train operations such as Station Masters, Loco Pilots, Guards, etc. Staff requiring technical training in addition to rules and procedures are given training at the Technical Training Schools at Avadi (Electrical), Podanur (S&T), Tambaram (Civil Engineering) and Golden Rock (Mechanical & Diesel). Carriage and Wagon staff get their technical training at STC, Bangalore, now under South Western Railway. In addition to the above, there are six training centres for Group-D staff of Traffic department and five training centres each for C&W, Civil Engineering staff and RPF personnel are trained at RPF Training Centre/Kimber garden, Trichy, JR/RPF Academy, Lucknow.

- 4) To ensure that staff work as per rules and that their knowledge is up to date, a system of on the job counselling is done by nominated Supervisors and Inspectors. Loco Pilots in particular are placed under the charge of Loco Inspectors who act as mentors.
- 5) Programmed as well as special **Safety drives** are launched to educate the staff on specific topics and check their alertness. Special safety drives are normally ordered whenever certain specific lapses are noticed as a result of a major accident to highlight the importance of the issues involved. During the year 2010-2011, **Twenty seven** safety drives were conducted. These include 08 special drives ordered by Railway Board.
- 6) Good work done by staff in preventing Accident or other untoward incidents is rewarded through Cash Awards. Suitable person is selected as "**Man of the Month**". During 2010-11, Twenty were given the "**Man of the Month**" award. These 20 Railway servants were given memento along with 5 Railway personnel who have averted a major mishap in VM-CGL section on 12th June 2010 by GM during safety week celebrations, held at ZRTI/TPJ.
- 7) To improve the knowledge of staff, booklets, folders and pamphlets are printed and distributed to the staff. During 2010-11, seventy five safety posters, twenty hand bills, twenty stickers, fifteen folders, and twenty five pamphlets were printed and distributed.

(D) Safety Propaganda

- + Safety propaganda is conducted through media such as TV, Radio and Newspaper appealing to public for proper caution at level crossings, not carrying inflammable articles, not to travel at foot board/roof top, etc.
- + Road users are educated through **inter-action** and display of safety posters at Village Panchayat Offices etc., by distributing hand outs at retail outlets of Hindustan Petroleum Corporation, Indian Oil Corporation and Bharat Petroleum Corporation and through display of cinema slides.
- + Action is being taken to educate the road users on the importance of strictly following Motor Vehicle Act provisions at unmanned level crossings through publicity campaigns. These are in the form of short films, slides in cinema halls, local cable TV networks, etc. campaigns in schools, fairs and other areas like weekly markets where public gather, safety pamphlets/hand-bills and conducting street dramas. Animated film was prepared to educate road users by TVC Division.
- + Special efforts are being made frequently to educate road users about the precautions to be taken while crossing the unmanned level crossings through "**SMS**" to all mobile users of **Airtel & BSNL in Kerala and Tamil Nadu**.
- + Tiruchchirappalli and Chennai Divisions have a group of staff trained to perform street plays for carrying the safety messages to the masses.
- + Advertisements are carried in daily new papers appealing to public not to carry inflammable articles, not to light fires inside the coaches, avoid footboard travel, safety at unmanned level crossing, etc.

With a view to bring into focus various safety related aspects and also to involve all levels of staff in the effort to improve safety, an **Annual Safety Week** was observed from 2nd March 2011 to 8th March 2011. The following were the highlights of the Safety week :-

- + Safety Seminars at Headquarters Office and Zonal Railway Training Institute, Tiruchchirappalli focusing on various safety related issues were presented by eminent retired and serving railway officers.
- + Competitions on Safety related topics such as Essay, Poster designing, Quiz, Drama, Paper presentation and Ex-tempore speech were held during the Annual Safety Week period.
- + Prizes for the winners of various competitions and an overall shield were presented at a colorful valedictory function.

At divisional level, various functions and propaganda campaigns are organized to highlight the importance of Railway safety. These activities include street dramas, folk dances, etc., as a medium to take the message to the masses, de-addiction awareness programs, to enhance their efficiency and safety consciousness. Trade fairs organized by State Governments and other organisations give yet another opportunity to have direct contact with the public.

(E) Other Safety Activities

(i) A Safety calendar for 2011 was printed and distributed during January 2011. The details of Programmed Safety Drives to be conducted every month get highlighted in the Safety Calendar.

(ii) Four issues of Quarterly Safety Bulletin "SUJOG" were printed and distributed to all concerned during the year.

(iii) A gazette extra ordinary was published and distributed to all divisions in connection with prevention of carriage of inflammable articles during Deepavali season.

(iv) In order to recognise safety consciousness of the staff and good work done in the field of Safety during 2010-11, 130 selected staff of various categories and disciplines from the divisions as well as Headquarters were awarded with Certificates and cash, as part of the Railway Week Celebrations 2011.

I. (a) Accidents Involving Casualties during 2010-11

(Excluding Manned/Unmanned LC accidents)

K-Killed G-Grievous M-Minor

Sl. No.	Details of accidents	Casualty								
		Railway staff			Passenger			Others		
		K	G	M	K	G	M	K	G	M
1	Nil	-	-	-	-	-	-	-	-	-

(b) Details of Accidents Involving Casualties During 2010-11 Due to Negligence of Road Users

Sl. No.	Date of Accidents	Brief Details	Killed	Injured	
				Grievous	Minor
1	04-06-10	While T. No. Special No. 3A MTP-CBE Passenger train was running between KAY and CBF, one mini bus suddenly trespassed and hit by the train engine at an unmanned LC No. 6 at Km. 12/8-9, 4 persons were killed.	5	4	7
2	08-08-10	T. No. 6041 on run between Shertalai and Mararikulam block section, a TATA Indica car No. KL 04Z/4654 suddenly trespassed and hit by the train engine at an unmanned LC No. 45 was hit by the train engine. All the four persons traveling by the car were killed.	4	0	0
3	27-01-11	While T. No. 16177 down Rockfort express was on run between Tindivanam and Mailam block stations a lorry (TN 31R/5353) suddenly trespassed at unmanned LC No. 100 at Km. 132/26-28 and was hit by the train engine.	1	0	0

II. Accidents Statistics – Details

No. of train accidents classified under principal heads which occurred on this Railway (excluding Workshops) during the year 2009-10 and 2010-11 :—

Sl. No.	Particulars	2009-10	2010-11
1	a. Collision involving passenger trains	1	0
	b. Collision involving other than passenger trains.	0	0
2	a. Derailments involving passenger trains.	3	2
	b. Derailments involving other than passenger trains except train wrecking.	0	1
3	Derailments due to train wrecking	0	0
4	Trains running into road traffic at LCs	1	3
5	Fire in trains	0	0
	TOTAL ITEMS (1 to 5)	5	6
6	Failure of coupling and draft gear		
	a. Passenger	0	0
	b. Goods	0	0
	c. Other failure of Rolling Stock	0	0
	d. Other failure of P. Way	0	3
7	Attempted train wrecking	0	0
8	Train running over cattle	0	0
9	Train running over obstruction	0	0
	TOTAL ITEMS (6 to 9)	0	3
	GRAND TOTAL (1 to 9)	5	6
10	No. of persons killed : No. of Railway Servants in workshops	0	0
11	Accidents on the Railway		
	a. Passengers	0	0
	b. Railway Staff	1	0
	c. Other than Passengers & Railway Staff.	4	10
	Total other than Workshop	5	10
12	No. of person injured No. of Railway servants in workshops	0	2
13	Accidents on Railways		
	a. Passengers	0	0
	b. Railway Staff	3	0
	c. Otherthan Passengers & Railway Staff	9	11
	Total (10 to 13)	17	23

III. (a) Comparative Figures of Consequential Train Accidents attributed to failure of Human Element for the Last 5 years.

Sl. No.	Category	2006-07	2007-08	2008-09	2009-10	2010-11
1	Collision	0	0	1	0	0
2	Derailment :					
	(a) At stations	1	1	0	0	0
	(b) In mid-section	1	0	0	1	0
3	LC accidents					
	(a) Manned	0	0	0	0	0
	(b) Unmanned	0	0	0	0	0
4	Fire in trains	0	0	0	0	0
5	Miscellaneous	1	0	0	0	0
	Total	3	1	1	1	0

(b) Comparative Figures of Indicative Train Accidents attributed to failure of Human Element for the last 5 years.

Sl. No.	Category	2006-07	2007-08	2008-09	2009-10	2010-11
1	Averted Collision	1	1	0	0	0
2	Train Passing Signal at danger.	2	3	3	2	0
3	Breach of Block rules	2	1	0	0	1
	Total	5	5	3	2	1

IV. Train Accidents per million train kilometres on Southern Railway Since 1994-95 to 2010-11

Year	Collision	Derailments	Level crossing accidents	Fire in trains	Misc	Total	Million Train kms.	Incidence of accidents per million train kms.
1994-95	3	31	27	1	..	62	60.22	1.029
1995-96	3	35	14	..	..	52	63.27	0.822
1996-97	..	29	11	..	..	40	64.20	0.623
1997-98	2	53	10	1	..	66	65.73	1.004
1998-99	1	50	7	1	..	59	64.83	0.910
1999-00	3	37	7	1	..	48	67.07	0.715
2000-01	2	33	7	1	..	43	68.39	0.628
2001-02	2	23	10	..	..	35	68.80	0.508
2002-03	1	17	8	..	..	26	69.75	0.372
2003-04	..	16	6	2	..	24	59.46	0.403
2004-05	..	2	3	1	2	8	58.63	0.136
2005-06	..	3	4	1	1	9	59.79	0.150
2006-07	..	4	11	..	1	16	60.50	0.240
2007-08	..	4	6	1	1	12	61.62	0.195
2008-09	1	3	5	0	0	9	63.63	0.141
2009-10	1	3	1	0	0	5	65.03	0.077
2010-11	0	3	3	0	0	6	67.34	0.088

V. Comparative details of Inspections, surprise checks, mock drills, etc. on Southern Railway Since 2006-07 to 2010-11

Sl. No.	Details of Inspections	2006-07	2007-08	2008-09	2009-10	2010-11
1	No. of inspections at station	19,198	17,630	19,759	21,455	21,654
2	No. of inspections at Yard	5,011	5,267	7,184	8,253	8,514
3	No. of Motor Trolley inspection.. ..	600	1,014	1,443	1,507	1,721
4	No. of footplate inspection	27,259	25,326	25,575	25,550	25,725
5	No. of station working order checked	2,759	2,202	3,438	4,568	4,786
6	No. of surprise check	6,249	5,278	6,807	10,555	10,712
7	No. of ambush checks conducted at LC in co-ordination with Civil authorities.	4,226	3,189	4,952	4,955	5,136
8	No. of Mock drills conducted	10	10	11	12	16
9	No. of Safety meeting, talks, group discussions	4,015	4,764	5,406	4,710	4,896
10	No. of Safety Seminars	160	166	272	338	231

Safety Rules :

Safety Rules are indispensable for the safe working of trains. Periodical reviews of the existing Rules are being done to keep abreast with the changing circumstances. As part of this exercise two corrections to GRs (Correction Memos Number 2/2011 dated 14/11/2011, 1/2012 dated 09/3/2012) has been issued.

Training :

Training enhances the knowledge, skill and attitude of staff to suit job needs. Training plays a vital role in promoting Human Resources for achieving safety and efficiency in operations.

ZRTI/TPJ plays a crucial role in enhancing the efficiency and safety consciousness of staff of Southern Railway and South Western Railway for upgrading Human Resources.

The Training details are as follows :

S. No.	Name of the Course	2010-11		2011-12	
		No. of Courses	No. of Trainees	No. of Courses	No. of Trainees
1	Initial	55	913	51	970
2	Promotional	26	409	18	323
3	Refresher	176	3,026	14	3,185
4	General	94	674	64	645
5	Safety camp	129	2,673	96	2,689
TOTAL		480	7,695	377	7,812

Achievements in the Training Area (ZRTI/TPJ)

- The total number of trainees from 7695 in 2010-2011 to 7812 in 2011-2012 showing increase of 15.2%. Training capacity utilization increased from 77.5% to 89.03% in 2011-2012 i.e., an increase of 11.05%.
- Ten safety seminars were held on various subject matters given in the Annual safety calendar.
- Training calendar for various courses, Candle Magazines, quarterly news letters were loaded in the Website of ZRTI/TPJ for the first time during this year.

- For the benefit of commercial supervisors, a 10 days orientation course was organized for the first time as per CCM's instructions.
- System of course certificate for all the initial course and refresher courses trainees of Commercial Department introduced for the first time.
- System of sending messengers to various divisions with results and marks and course certificate was stopped. Instead these have been uploaded in the website for the first time thus avoiding payment of traveling allowance and avoiding delay in knowing the results.
- A two wheeler stand for the benefit of instructors and staff has been built.
- Through "Shramdhan" around 140 tubular armed chairs got repaired and repainted by the probationary ASM trainees, saving around Rs. 1,00,000/- to the administration by avoiding purchase of new chairs.
- Cleaning and sanitation work of hostels 3 & 4 was outsourced on a trial basis for a period of three months. 8 Sweepers, 2 peons Posts were surrendered effecting a saving in payment of salary alone to the tune of Rs. 28,22,640/- recurring cost per annum (exclusive of other privileges like Night duty, National Holiday, Transport, House rent allowances).
- Various safety posters designing competitions, safety seminars, quiz competitions were held.
- "Training of trainers seminar on disaster management" sponsored by Railway Board, was held from 4th January to 13th January 2012 with participation of instructors from all ZRTIs and supervisory staff of Southern Railway.
- For the benefit of the trainees in the hostel room, wooden doors for 54 room with double locking arrangements for masonry cupboard, "Netlon" mosquito nets, coat hook were provided at a cost of Rs. 7,50,000/- (Seven lakhs Fifty thousand).

13. Four ceiling mounted LCD projectors, 3 bulbs for defective projectors were purchased and provided in the class room for conducting Audio Visual Classes for the trainees. Additionally 2 water purifiers, one for conference hall and another for hostel were purchased and provided. The total cost of all the above is Rs. 3,39,000/- (Three lakhs Thirty Nine Thousand).
14. For the benefit of lady trainees for disposal of sanitary napkins an Electrical incinerator was installed in the lady trainee's hostel. Similar arrangements with manual incinerator were done in the ladies toilet in the main building for the benefit of lady trainees and ladies. This is first of its kind in Southern Railway.
15. Hostel – 2 has been upgraded by converting 80 bed dormitory to 9 cubicles of 5 to 6 beds each with tiled floors. Mess has been upgraded with fresh painting, providing canopy arrangements between cooking area and dinning hall and with proper cement paving at the entrance to avoid water logging.
- For cleaning utensils, additional wash basins have been provided in the Mess with solar water heater connection.
16. New tar roads have been provided in the campus.
17. A new cattle guard provided at the entrance gate to avoid cattle, pigs straying in the campus.
18. Infrastructure additions effected like purchase of 203 additional plastic chairs for auditorium, 44 executive chairs, for instructors and visitors, a new sofa set and 40 desks with 80 chairs for conference hall and 2 water purifiers.

Performance of Operating Safety for Divisions

Division	No. of Safety Drives	No. of Safety Seminars	No. of Safety Meetings	Inspection by Officers	Inspection by Supervisors
MAS	36	41	Monthly at all stations	104	391
MDU	36	15	Monthly at all stations	81	173
PGT	33	12	Monthly at all stations	75	148
SA	32	12	Monthly at all stations	63	285
TPJ	35	19	Monthly at all stations	88	551
TVC	28	10	Monthly at all stations	60	108
ZRTI	..	10	..	2	..



XV. SECURITY ARRANGEMENTS

GENERAL:

RPF/Southern Railway has been constantly performing well in the field of crime control. Crime has been kept well under control due to effective preventive measures taken wherever and whenever warranted.

I. Preventive measures:

a) Following are the preventive measures taken by RPF in close co-ordination with GRP in combating crime against traveling public.

1) RPF Crime Prevention and Detection Squad (CPDS) are formed over this Railway to keep surveillance on the criminals and to prevent passenger related offences.

2) Special teams (Drugging Cell) at Divisional level have been formed exclusively to workout / detect the Drugging offences.

3) On an average, 256 Mail / Express and Sub-urban trains are being escorted by RPF staff with a strength of 407 staff on daily basis.

4) Similarly, 180 Mail/Express trains are being escorted by GRP daily.

5) Small albums containing the photographs of wanted criminals are issued to the RPF staff on train escort duties.

6) Loud hailers are being used by RPF staff on duty at station platforms to alert the passengers at important stations especially near the general/ladies coaches of the trains on security point of view.

7) Video coverage is done in general coaches to create moral fear among the anti-social elements at important / affected stations.

8) Slides on the awareness programme are being projected in cinema halls.

9) Broadcasting of awareness programme through FM channels.

10) Skit / forum drama is staged by RPF staff on platforms, concourse area of important stations to alert the passengers about theft of passenger belongings and drugging.

11) Feedback forms with questionnaire on security related problems are being circulated to the passengers and their feedbacks are obtained on security related problems faced by them during their rail journey in order to take remedial measures.

12) Awareness programme is being conducted outside Railway area like bus stands, educational institutions, markets, cinema theatres, etc.

13) Special pamphlets cautioning the passengers are distributed on platforms / trains.

14) DFMD and HHMD are being utilized to check the passengers at the time of entry at important stations whenever required.

15) CCTVs have been provided in certain important Railway stations to keep a watch on anti-social elements. Installation of CCTV system would be extended to some more stations during this year.

16) Bomb Detection Squads are established at Chennai Central, Arakkonam, Coimbatore and Trivandrum Central. More such squads are being established at major stations during this year.

17) RPF Dog Squad consisting of sniffer dogs are functioning at all Divisional HQrs/important stations of this Railway and these dogs have been frequently utilized for anti-sabotage checks.

18) X-Ray luggage scanner is installed at Chennai Central, Chennai Egmore, Trichy and at Trivandrum Central to check the passenger's baggages.

19) RPF Mitra Yojana meetings are conducted regularly to cull out information about suspected persons in combating crime against passengers.

20) RPF Help Line has been established and functioning round the clock at the Zonal Security Control Room at CSC's Office to receive any complaint/information from the passengers for immediate action. BSNL Phone No.044-25359261 is the Help Line number. BSNL No.044-25358987 and Railway No.20386 are the Fax numbers. Similarly, GRP/Tamilnadu & Kerala are operating Rail Alert System with cell phone numbers 9962500500 and 9846200100 respectively.

21) Integrated Security System is being implemented in 14 important stations over this Railway at a cost of Rs.27.81 Crores to strengthen the security infrastructure for the safety and security of Rail passengers.

b) Passenger's Security in trains/passenger area:

Following the amendments made to RPF and Railways Acts, RPF/Southern Railway is shouldering additional responsibility of security of train passengers apart from protecting and safe guarding of Railway property. In order to ensure the safety of Rail passengers and to make their journey safe and comfortable, RPF is deploying on an average 1150 staff for escorting of trains and for access control duties daily.

c) High level Co-ordination Meeting:

Regular High Level Co-ordination Meetings by CSC with GRP chiefs of Tamilnadu, Kerala, Karnataka, Andhra Pradesh & Pondicherry are being conducted to evolve preventive measures on crime against passengers. Such a High Level Co-ordination Meeting was last conducted on 30.04.10 at GM's office in which GM/ Southern Railway was the chair person.

d) Awareness Campaign:

In order to create awareness against the drugging offences and other passenger related crime against the travelling public, RPF/Southern Railway is staging skit/forum drama in an innovative manner before the travelling public at important stations. This is very useful in creating awareness among the travelling public for taking preventive measures against theft of their baggages and drugging menace.

e) Passenger Awareness Programmes Conducted :—

Sl. Nos.	Programme	2009-10	2010-11
1	Skit/Forum Drama conducted	212	86
2	Meeting with Coolies	786	367
3	Feedback Forms obtained	36351	11783
4	Pamphlets Issued	188730	111178
5	Awareness programme out side the Railway premises	308	152
6	Stickers pasted	34722	14313
7	FM Channel	11	12
8	Slides projected in cinema hall	128	128
9	Video coverage of GS coaches	260	118
10	Assistance from NGOs/Scouts etc., utilized	26	8
11	Decoy Check conducted	924	589

II. Achievements made during the year 2010 - 11 :**a) Commissioning of X-ray Luggage Scanner at Trivandrum Central:**

On 13.08.10, X-ray Luggage Scanner at a cost of Rs. 24.3 Lakhs was commissioned at Trivandrum Central Railway station by DRM/Trivandrum.

b) Anti - Sabotage check competition - 2010

* RPF/Southern Railway bagged the winner's shield in all Inter RPF competition.

c) Integrated Security System:

Railway Board has accorded sanction for ISS items at an estimated cost of Rs.27.81 Crores for seven stations namely Trivandrum, Ernakulam, Calicut, Mangalore, Madurai, Trichy and Coimbatore and for 7 suburban stations viz., Chennai Central, Chennai Egmore, Chennai Beach, Mambalam, Tambaram, Tiruvallur and Basin Bridge. The system will be made functional in 2011-12 after due process by the expert committee. The integrated security system consists of the following :—

- i) CCTV system.
- ii) Access control
- iii) Personal baggage screening system
- iv) Explosive detection and disposal system.

d) BDS Unit of RPF equipped with essential bomb detection equipments is functioning at Chennai Central, Chennai Egmore, Arakkonam, Coimbatore and Trivandrum to conduct anti-sabotage checks on suspected articles.

e) Drive against unauthorized Alarm Chain Pulling affecting punctuality of trains:

During the year 2010 - 11, 1975 instances of Alarm Chain Pulling were reported. Of which, 1100 instances were justified as due to commercial/operational/mechanical/electrical reasons and in 875 unauthorized instances, 832 defaulters were nabbed and 389 offenders were prosecuted u/s 141 RA, 1989 and realized fine of Rs.2,24,881/- from them. Remaining 443 defaulters were fined through EFT with the realization of fine of Rs.4,33,352/-.

f) LC Gate Accidents :

During the year 2010-11, 652 instances of L.C. Gate accidents involving road vehicles were reported over this Railway. In all the incidents, the vehicle drivers were apprehended by RPF and prosecuted u/s 154 RA and a sum of Rs.8,29,150/- was realized as fine. This apart Rs.25,31,412/- was also realized from the owners of the vehicles towards the cost of damage to the L.C. gate components, etc.

g) Action against defaulters indulging in train hold ups during Rail Roko by political parties, trade unions, etc:

RPF/Southern Railway is taking stern action against the persons indulging in train hold ups during Rail Roko by political parties, trade unions, etc., to maintain the punctuality of trains and the defaulters are prosecuted under sec. 174 of Railways Act duly obtaining complaints from Railway Depot Officials. During the year 2010 - 11, 212 defaulters were prosecuted u/s 174 Railways Act and a fine amount of Rs.1,71,500/- was realized from them.

h) Security checks at Chennai Central Railway station:

i) Following heightened threat perception to Chennai Central Railway station, a thorough security check was conducted at Chennai Central on the night of 03/04.05.2010 jointly by RPF/GRP.

ii) On 06.08.10, a special security check was conducted jointly by RPF and GRP with the assistance of BDS/Chennai and Sniffer dogs at Chennai Central station. All baggages / luggages and parcels were thoroughly screened by RPF / GRP.

i) Security Mock Drills Conducted: During the year 2010-11, on 12 occasions, security mock drills were conducted over this Railway on the pretext of bomb threat, suspected articles, infiltration of terrorists etc., to gauge the alertness of various security agencies. The response was swift and sustaining.

j) "Train intervention" training by NSG : -

A team of NSG Commandos under the charge of Major.Sumanthkumar organized "Train Intervention Training" from 22.30 on 15.12.10 to 02.15 hrs of 16.12.10 at Tambaram Railway station to keep the NSG commandos fit enough to counter all possible terrorist attack on Railway stations and Trains. A Special Train was spared exclusively for this purpose. On the request made by Sr.DSC/MAS, one IPF, 7 RPF staff of Tambaram and 10 RPF Commandos were also allowed to take part in the training mainly to gain experience in the rescue operation, etc.

III. Action taken by RPF against crime on passengers:**a) Awareness Programmes conducted:**

- ❖ **Anti-terrorism Awareness Campaign** was organized on 06.04.2010 by the Cochin City Police in co-ordination with RPF & GRP at Ernakulam Town Railway station. Asst. Commissioner of Police / Cochin, Dy.SP/Intelligence/ Ernakulam, Area Manager/Ernakulam and more than 125 RPF/GRP and passengers participated/ attended the campaign.

- ❖ **To prevent trespassing of Railway track:** On 01.04.10, Safety Branch of Chennai Division organized a special Awareness Campaign at Potheri Railway station with the assistance of RPF/Tambaram to educate the general public on the dangers of crossing the Railway track by organizing skit / forum drama, distributing of awareness pamphlets, etc.
- ❖ **A similar awareness programme** was organized by SIPF/Chennai Beach on 28.04.10 at Chennai Beach Railway station during peak hours assisted by the skit/forum drama party.
- ❖ **Awareness campaign against placing of stones on the Railway track:** Following series of incidents of placing of obstruction (stone) on the Railway track in Salem Division, IPF/Salem conducted awareness programme on 09.10.10 at some villages located nearby the spots and explained and also distributed pamphlets to the villagers about the dangers of placing stones on the Railway track.
- ❖ **Special safety drives at unmanned LCs:** On 29.01.11, IPF/Trichy and staff along with Safety Officer/Trichy conducted special drive at the unmanned LCs situated between Pullambadi and Kattur Railway stations to educate the road users about the safety rules. Awareness pamphlets containing DOs and DON'TS were also distributed to the road users at the LC gate. A similar awareness programme was also organized at the unmanned level crossings located between Sillakudi and Kallagam Railway stations on 31.01.2011.
- ❖ **Special drives against carrying of inflammable/explosive items in trains:** In view of Deepavali festival, a special drive against carrying of inflammable/explosive items especially crackers in trains was organized over this Railway for a period of 20 days in order to prevent any fire hazard in trains and Railway premises. Intensive awareness campaigns, etc., educating the dangers of carrying fire crackers in trains were also organized duly displaying banners, etc.
- ❖ Wide publicity was given through print and visual media to reassure the travelling public that security of passengers is always taken care of over Southern Railway in the best possible manner.
- ❖ Apart from this, Crime prevention and detection squads (CPDS) of RPF are formed to work out the reported Theft of Passenger Belongings cases in co-ordination with GRP.

IV. Comparison of Crime :

The following are the incidents of crime against passengers reported :—

2009 - 10

Category	Total for S.Rly.			State wise Figures					
				Tamilnadu			Kerala		
	Train	Premises	Total	Train	Premises	Total	Train	Premises	Total
Murder	0	0	0	0	0	0	0	0	0
Dacoity	0	0	0	0	0	0	0	0	0
Robbery	32	17	49	32	16	48	0	1	1
Theft	328	130	458	198	70	268	130	60	190
Chain snatching ..	29	6	35	14	3	17	15	3	18
Drugging	4	1	5	2	0	2	2	1	3
Molestation	17	4	21	5	1	6	12	3	15
Rape	0	0	0	0	0	0	0	0	0
Crime on women ..	3	0	3	3	0	3	0	0	0
Other IPC crime ..	79	161	240	65	119	184	14	42	56
Total ..	492	319	811	319	209	528	173	110	283

Category	Total for S.Rly.			State wise Figures					
				Tamilnadu			Kerala		
	Train	Premises	Total	Train	Premises	Total	Train	Premises	Total
Murder	1	0	1	0	0	0	1	0	1
Dacoity	1	0	1	1	0	1	0	0	0
Robbery	57	18	75	48	15	63	9	3	12
Theft	408	134	542	223	96	319	185	38	223
Chain snatching ..	36	3	39	17	3	20	19	0	19
Drugging	3	0	3	1	0	1	2	0	2
Molestation	17	4	21	5	1	6	12	3	15
Rape	0	0	0	0	0	0	0	0	0
Crime on women ..	2	4	6	0	4	4	2	0	2
Other IPC crime ..	117	208	325	74	164	238	43	44	87
Total ..	642	371	1013	369	283	652	273	88	361

- The increase is due to introduction of more train services during the year and increase in volume of passenger traffic.
Ensuring prompt registration of reported cases.

V. CRIME AGAINST RAILWAY PROPERTY :

A number of preventive measures have been taken by RPF/Southern Railway to contain crime against Railway Property and to bring down the incidents of theft/pilferage. As a result of the efforts taken, theft of Railway Property has been kept under control. Figures of incidents of theft of Railway Property, both Booked Consignments and Railway Materials are given below :—

(a) Theft of Booked Consignments :

Year	No.of cases		Per-centage	Value of property (in Rs.)		Per-centage	Arrest		
	Rep	Det		Stolen	Received		OS	RE	RPF
2009-10	13	7	54	14,11,886	13,71,638	97	20	2	0
2010-11	18	8	44	1,63,383	55,937	34	11	0	0

(b) Theft of Railway Materials:

Year	No.of cases		Per-centage	Value of property (in Rs.)		Per-centage	Arrest		
	Rep	Det		Stolen	Received		OS	RE	RPF
2009-10	165	133	81	10,98,087	8,38,393	76	280	5	0
2010-11	235	200	85	31,49,008	29,90,202	95	157	3	0

VI. Performance under Railway Property (Unlawful Possession) Act, 1966 :

This act is an effective means to control the crime against Railway Property. The surveillance kept over suspects, criminals and successful raids on receivers and criminals by RPF personnel of this Railway, resulted in booking of number of cases with recovery of lakhs of rupees of stolen properties and arrest of several criminals under this Act.

The result achieved under this Act for the year 2008-09 & 2009-10 is appended below in the table :

Year	No. of Cases	Value of property recovered	Arrest		
			OS	RE	RPF
2009-10	606	30.54 Lakhs	778	13	0
2010-11	542	34.49 Lakhs	680	8	0

- ❖ There is decrease by 64 cases and recovery value increased by 3.95 Lakhs in the recovery of property when compared to the previous financial year 2009-10.

VII. Performance under Railways Act, 1989:

Relentless drives against anti-social elements who indulge in illegal sales of rail journey tickets, cornering of berths/seats, hawking, begging, trespassers, etc., in trains and stations are being conducted by RPF/Southern Railway.

Defaulters are apprehended and prosecuted under the provisions of Railways Act. The result achieved for the year 2009-10 & 2010-11 is appended below in the table :—

Year	Persons apprehended	Fine realized in Rupees
2009-10	1,11,522	Rs. 2.36 Crores
2010-11	1,10,411	Rs. 2.52 Crores

- ❖ There is decrease by 1111 cases when compared to the previous financial year 2009-10.
- ❖ 16 Lakhs increase in fine amount realized when compared to the previous financial year 2009-10.

a) Results achieved under Important Railways Act sections during the year 2010-11 :

Sl. No.	Offence u/s	No. of persons apprehended	Fine realized
1	Transfer of reserved rail tickets (142)	1,021	Rs. 5,89,600/-
2	Unauthorisedly procuring and selling of rail tickets (143)	58	Rs. 56,000/- 933 under trial in Courts)
3	Unauthorized Hawking/Vending (144)	22,523	Rs. 56,19,105/-
4	Alarm Chain Pulling (141)	832 (389 u/s 141, 443 EFT)	(Rs. 2,24,881 +/- 4,33,352 =) Rs. 6,58,233/-
5	Footboard travelling (156)	19,543	Rs. 40,71,984/-
6	Gents travelling in ladies coaches (162)	597	Rs. 1,26,650/-
7	Smoking (167)	6,851	Rs. 7,88,945/-

VIII. RPF ASSISTANCE TO TICKET CHECKING STAFF :

RPF is providing necessary assistance to commercial branch in ticket checking. The following are the details of ticketless travellers apprehended and fine amount realized for the year 2009-10 & 2010-11.

Year	RPF staff deployed	No. of ticketless apprehended	Amount of fine realized
2009 -10	8,941	4,38,700	Rs.12.72 Crores
2010 -11	11,549	5,05,872	Rs.16.00 Crores

IX. RPF DOG SQUAD:

i) Southern Railway RPF is the pioneer of forming RPF Dog Squad over the Indian Railways. The Southern Railway Dog Squad was formed in the year 1958 on the pattern of Chennai State Police Kennel and later expanded. At present, Southern Railway has 12 Kennels with a total strength of 32 dogs consisting of Labrador, Doberman and German Shepard. 50% of the existing strength of RPF dogs comprise of Sniffer dogs, trained to detect explosive.

ii) **Zonal RPF Dog Training Centre** is functioning at Podanur with all equipments and infrastructure facility for imparting basic training to sniffer and tracker dogs of Indian Railways. This is first of its kind on Indian Railways and merits as a significant achievement towards modernization of the Force. So far, 92 sniffer and 31 tracker dogs of various Zonal Railways were got trained in this training centre.

X. OTHER GOOD WORK DONE BY RPF :

1. On 29.06.10, IPF/CIB/MAS and party recovered 6 Nos. of stolen railway telecommunication cable drums total valued Rs.11,37,496/- with the arrest of 6 outsiders in Avadi RPF Post RP(UP) Cr.No.07/2010.

2. On 22.07.10, IPF/TNPM and staff recovered 7 Nos. of stolen S&T cable drums total valued Rs.10,11,800/- with the arrest of 6 outsiders in TNPM RPF Post RP(UP) Cr.No.12/2010.

3. During the check, in one instance 7 bottles of foreign liquor (German made), valued Rs.35,000/- were detected/recovered from S-2 coach of T.No.16525 Exp. and handed over to RPSI/TVC who inturn registered a case in his station Cr.No.13/11 u/s 55 (a) of Kerala Abkari Act.

4. During the year 2010 – 11, a total of 47 criminals (Pick pocketers – 6, Baggage lifters – 22, Chain snatchers – 09 & others - 10) involved in passenger's related crime, were arrested by RPF and handed over to concerned GRP for registration of cases.

5. Seizure of Contraband goods:

i) On 23.06.10, IPF/Ernakulam and staff recovered 3 polythene bundles containing 450 Kgs. of Ganja, valued **Rs.45 Lakhs** (approx) which were found abandoned at the Parcel Office/Ernakulam and handed over the same to the Excise Inspector/Ernakulam under acknowledgement, who inturn registered a case in NDPS Cr.No.1/2010 u/s 20(b) (ii) (c) of NDPS Act, 1985.

ii) On 11.08.10 RPF BDS staff/Chennai Central detected two unclaimed suitcases from S-5 coach of T.No.2841 Howrah Chennai Central Coromondal Express containing Ganja weighing about 30 kgs. valued Rs.1,80,000/- approximately and handed over the same to GRP/MAS for further action.

6. Action against the menace of begging in trains by transgenders: Following complaints against the menace of begging by transgenders in trains and Railway premises, a special drive was organized over Chennai Division to eradicate the nuisance created by the transgenders to the travelling public in trains. During the drive, 32 transgenders who indulged in begging in trains were apprehended and prosecuted under relevant sections of Railways Act and a fine of Rs.10,000/- was realized from them.

XI. Main events during the year 2010-11 :**Study visit of Parliamentary Committee to Southern Railway**

i) On 20.05.10, a Parliamentary Committee consisting of 9 MPs of Lok Sabha under the Chairmanship of Sri.A.K.S.Vijayan, Hon'ble MP/Nagappattinam Constituency visited the Loco Works/Perambur and ROB constructions along with Mayor of Chennai and other Railway officials. Elaborate bandobust arrangements were made by RPF/Chennai Division during the visit of the parliamentary committee and nothing untoward reported.

ii) The Parliamentary Standing Committee on Railways under the Chairmanship of Sri.T.R.Baalu, Hon'ble MP conducted spot study tour over Southern Railway from 26.05.10 to 28.05.10 at Madurai, Trichy and Chennai to study the status of protection and security to Railway property and rail passengers. The Committee interacted with GM/PHODs of this Railway. CSC delivered a Power Point Presentation on various preventive measures taken / adopted by RPF/S.Rly. in protecting and providing security to the Railway property / Rail passengers. Elaborate bandobust arrangements were made by RPF/S.Rly., during the visit of the committee and no untoward incident was reported.

iii) **Visit of Railway Convention Committee (2009):** On 29.10.10 & 30.10.10, the Railway Convention Committee (2009) visited Trivandrum and Cochin Railway stations respectively and reviewed the progress of the ongoing projects. Railway and State Govt. Officials of Kerala were present during the meeting. RPF / Trivandrum division made elaborate security arrangements at Trivandrum and Cochin.

iv) Interaction seminars/Sensitization programmes organized:

- ❖ HIV/Aids awareness programme in co-ordination with Tamilnadu State Aids Control Society, Chennai was organized to create awareness about the dangers of HIV/Aids.
- ❖ Meditation Camp for RPF staff in co-ordination with Brahma Kumaris organization to sensitize the RPF staff was organized.
- ❖ Personality Development programme for RPF personnel was organized with eminent personality of private management institution.
- ❖ Sensitization programme on “**Child Protection & Juvenile Justice Act**” was organized in co-ordination with Child Line, Department of Social Defence.
- ❖ Child Development & parenting was organized.
- ❖ Diabetic Awareness – cum - detection campaign was organized.
- ❖ Seminar on Human rights was organized in co-ordination with State Human Rights Commission.
- ❖ Civil Service Awareness programme was organized for the benefit of wards of RPF.
- ❖ Seminar on “**Right to Information Act-2005**” was organized.

v) Sports:-

i) In the Inter Railway **RPF Hockey Championship Tournament** held at Kharagpur/S.E.Rly. from 02.12.10 to 07.12.10, RPF/S.Rly. retained the championship trophy (winner) for the third consecutive year with the hatrick win this year.

ii) In the Inter Railway **RPF Shooting Competition** held from 12.12.10 to 16.12.10 at RPF/TC/Moula-Ali/ SC; the sharp shooters of S.Rly. bagged one gold, one silver, 3 Bronze medals and secured maximum of 543 points in the shooting competition.

vi) System Improvement:

In the train escort checking drive launched from 14.03.11 to 23.03.11 as many as 664 checks were conducted by Divisional Incharges/ASCs of Sub-divisions and HQrs. as well as Sub-ordinate officers. These checks proved to be very effective in keeping the train escorting staff on total alertness. Some RPF train escorting staff who were found negligent and indiscipline during the checks were dealt to prevent recurrence.

vii) Comprehensive security checks were organized in all Divisions of this Railway in liaison with GRP and Commercial Branch staff during the month under review which proved to be extremely effective in apprehending many anti-social and other offenders under Railways Act. Some of the notable results of the security checks are appended below:-

- Ø 1825 unauthorised persons including vendors, nuisance mongers, etc. were apprehended and prosecuted under relevant sections of Railways Act with the realization of fine to the tune of Rs.4,13,270/-.
- Ø 969 ticketless travelers and defaulters of unbooked luggages were rounded up and a sum of Rs.2,77,825/- was realized from them through EFT.
- Ø 547 beggars/ urchins were chased out from trains/ Railway premises.
- Ø There have been visible changes in stations where such comprehensive security checks / combing operation were carried out and an apparent decline in the number of instances of crime against passenger belongings and women passengers, etc.

Such comprehensive security checks are being continued over this Railway.

viii) Bomb threat: During the year, 25 anonymous bomb threat calls in trains/premises were received and swiftly attended by RPF in co-ordination with GRP/Local Police and all the calls turned to be a hoax.

ix) Special Bandobust to VVIPs/VIPs: During the year, on 150 occasions during the travel/visit of VVIPs/VIPs like Hon'ble Chief Minister, Union Ministers, MOSRs etc., on the Railways, RPF/Southern Railway provided elaborate bandobust arrangements in co-ordination with GRP/Local Police.

x) Meritorious Service by the Officers of RPF/Southern Railway:-

Shri. M.F.Mohideen, IPF/Chennai Egmore/Southern Railway was awarded with the coveted Indian Police Medal for meritorious service on the eve of Republic Day - 2011.

xi) Eviction:

During the year 2010 – 11, during 13 occasions RPF/S.Rly. rendered all assistance including providing of necessary bandobust arrangements in co-ordination with Local Police/GRP to the engineering branch in evicting encroachments from the Railway land.

xii) In recognition of overall best performance of S.Rly. during the year 2009, Railway Board has awarded Security Shield to RPF/Southern Railway at Railway Week Function held at New Delhi during April - 2010.

XII. Welfare Measures:

a) Handicraft center with sufficient number of sewing machines and membership strength of 25 to 40 RPF wards is functioning at Tambaram and Arakkonam.

b) Job Fair was conducted at Chennai on 11.08.2011, in which 222 wards of RPF/Railway Employees had attended. Of which, 114 got selected for suitable job.

c) Various welfare measures for RPF staff like blood donation camps, Eye donation camp, HIV Awareness were organized by all divisions.

d) Various seminars like Stress Management, attitudinal changes on good habit and drug abusive were organized to sensitize RPF staff.

e) 272 wards of Security Branch staff who are pursuing Degree courses are granted with scholarship of Rs.2,500/- each and 6 wards who are pursuing Diploma Courses are granted with scholarship of Rs.1,800/- each out of CSBF.

f) One Gymnasium created out of "Staff Benefit Fund" during 2010, is functioning in Chennai Division.

g) All posts and outposts of Southern Railway and officers have been provided with Chess Boards and Pawns.

h) 4 wards of RPF staff who are differently abled were given assistance through CSBF.

i) One Woman Constable was awarded for the best service by SRWO and 3 wards have won in the painting competition conducted by SRWO.

XIII. RSKN:

Ex-gratia lumpsum payment, settlement, VSK assistance, etc., are granted to staff as per laid down procedure and rules. The details of funds disbursed during 2010-11 is as follows;

Sl. No.	Description	Amount Rs.
1	Merits Scholarship	2,86,400/-
2	RSKN Settlement	4,56,000/-
3	Funeral Expenses	1,70,000/-
4	VSK Assistance	50,000/-
5	Ex-gratia lumpsum	15,00,000/-

XIV. TRAINING:

The RPF Training centre, Trichy is only the training centre for the Security Department on Southern Railway and caters to the need of ICF and S.W.Rly. also. The normal capacity of the Training centre is 300 trainees at any time of the day. The following staff of different ranks from Constable to IPFs were trained during the year 2010-11 of various courses.

1. RPF TC/KG/TPJ - 1675 staff
2. JR/RPF Academy/LKO - 60 IPFs
3. Punjab Police Academy/
CDTS/Hyderabad - 33 staff

XV. GRANT OF MONEY REWARD

Sl. No.	Description	Amount Rs.
1.	Sanctioned by GM/AGM & ADGM/S.Rly	1,47,000/-
2.	Sanctioned by CSC/Dy.CSC & SO to CSC	2,04,500/-
3.	Sanctioned by Sr.DSC/DSCs	2,48,500/-
	Total	6,00,000/-

XVI) Passenger Facilitation by RPF :

Sl.No	Details	2009-10	2010-11
1	Assistance given to injured passenger on train journey.	236	287
2	Handing over of runaway children	446	505
3	Securing abandoned baggage's	999	889 Instances
4	Seizure of illicit liquor/Ganja etc., in trains.	112.312 Lakhs in 25 instances with the arrest of 9 criminals.	Rs. 51.45 Lakhs in 21 instances.
5	Value of smuggled Rice seized and handed over to Civil Supply Authorities.	Rs.2.121 Lakhs with the apprehension of 29 criminals.	Rs. 383,134/-

XVII) Sabotage:

- 2008-09 - Nil
- 2009-10 - One case
- 2010-11 - Two cases

Conclusion: RPF/Southern Railway is striving hard to ensure that the passengers travel with full sense of security in its jurisdiction.

**SIXTY ONE YEARS
OF
SUMMARY**

Details	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62
Assets—(As on 31st March)												
Capital-at-charge (Rs. in crores)	115.28	115.65	113.05	118.50	124.81	133.02	145.15	160.10	172.60	181.30	189.40	211.20
Total Investment (Rs. in crores)	..	..	..	130.00	139.65	152.57	169.26	190.14	209.60	224.62	239.00	262.85
Route Kilometres Electrified 36.08	..	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.19	29.19
Total	9,656.02	9,681.41	9,695.32	9,750.40	9,841.97	9,757.15	9,817.05	9,912.53	9,914.89	9,916.71	9,921.50	9,944.25
Running track Kilometres Electrified	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39	65.28
Total	9,811.15	9,836.54	9,850.96	9,905.54	9,997.10	9,912.48	9,989.57	10,085.03	10,130.27	10,196.78	10,295.23	10,463.52
Number of Stations	1,234	1,237	1,238	1,243	1,255	1,252	1,262	1,286	1,308	1,305	1,315	1,337
Rolling Stock—												
Locomotives	1,410	1,412	1,430	1,395	1,420	1,419	1,501	1,580	1,614	1,662	1,644	1,714
Steam	..	..	..	..	..	..	..	..	..	..	..	..
Diesel	..	..	..	..	..	..	..	..	..	..	..	..
Electric	4	4	4	4	4	4	4	4	4	4	4	4
Coaching stock	3,020	3,041	3,066	3,219	3,260	3,227	3,403	3,425	3,457	3,657	3,724	3,840
Passenger carriages	..	..	..	..	..	..	..	..	..	..	..	..
Electric Multiple Unit	72	72	72	96	96	96	96	96	96	96	96	96
Coaches	..	..	..	..	..	..	..	..	..	..	..	..
Rail cars	9	9	8	8	18	18	17	29	30	30	30	30
Other coaching vehicles	997	1,011	1,022	1,033	1,108	1,101	1,178	1,185	1,212	1,217	1,212	1,381
Wagons	24,074	24,429	26,839	28,080	28,895	29,054	31,902	33,470	35,143	36,165	36,024	37,089
Staff—												
No. of employees (in 1000s)	139.4	145.0	147.5	152.3	153.5	158.4	158.5	161.0	165.8	163.7	161.6	161.7
Cost of staff (in crores of Rs.)	17.24	18.88	19.00	20.25	20.91	22.87	22.76	25.22	27.02	27.14	29.58	30.46
Average cost per employee (in Rs.)	1,240	1,376	1,345	1,351	1,367	1,467	1,436	1,578	1,639	1,662	1,823	1,888
For the year—												
Transportation Out-put—Train-kilometres excluding Departmental (in millions)—	..	..	..	..	..	..	..	..	..	..	..	..
Passenger and proportion of mixed	36.65	37.31	37.38	37.94	39.06	39.42	36.62	39.55	39.49	39.04	38.85	39.36
Goods and proportion of mixed	18.64	18.56	18.48	17.96	18.60	19.77	20.52	20.67	21.19	22.61	22.87	23.72
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—	..	..	..	..	..	..	..	..	..	..	..	..
Vehicle kilometres	568	581	581	576	591	597	610	609	616	618	631	644
Wagon kilometres	617	617	618	616	644	686	731	762	789	873	888	925
Volume of Traffic—												
Passenger Traffic—												
No. of passengers originating (in millions)	272	226	216	205	211	217	225	223	228	237	252	256
Passenger kilometres (in millions)	12,151	11,742	10,887	10,032	11,073	10,696	11,191	11,052	10,651	10,862	11,719	12,105
Passenger earnings (in crores of Rs.)	18.25	21.10	18.63	17.44	17.68	18.83	20.11	19.84	19.69	20.35	22.06	25.54
Average lead (in kilometres)	44.1	50.1	50.3	48.5	52.2	48.0	49.5	48.9	46.2	45.5	46.1	46.8
Average rate per passenger kilometres (in paise).	1.50	1.80	1.71	1.74	1.60	1.76	1.80	1.79	1.85	1.87	1.88	2.11
Goods Traffic—												
Tonnes originating (in millions)—	..	..	..	..	..	..	..	..	..	..	..	..
Revenue earning Traffic	10.9	10.6	8.8	8.8	9.0	9.2	9.4	10.2	10.3	10.7	11.8	12.1
Total traffic	11.9	11.3	10.9	11.1	11.4	12.4	13.1	14.6	15.0	15.8	16.6	16.1
Net tonne kilometres (in millions)—												
Revenue Earning Traffic	4,840	4,676	4,884	5,003	5,370	5,966	6,204	6,636	6,929	7,386	7,755	8,411
Total Traffic	5,313	5,243	5,433	5,530	5,879	6,519	6,956	7,509	7,715	8,309	8,733	9,379
Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)	20.7	21.2	19.0	19.6	20.6	23.5	24.9	27.1	29.1	31.9	34.0	35.8
Average lead (in kilometres) (Revenue)	343.6	363.7	384.5	389.0	396.1	405.1	396.5	385.5	387.5	391.0	400.5	427.1
Average rate per tonne kilometre (in paise)	4.27	4.54	3.89	3.92	3.84	3.94	4.02	4.08	4.19	4.32	4.38	4.26
Quantity of fuel consumed by locomotives—												
Coal (in thousand tonnes)	1,378	1,436	1,461	1,461	1,562	1,664	1,839	1,964	2,001	2,127	2,187	2,348
Diesel oil (in kilometres)	..	..	..	..	..	..	..	403	689	822	888	925
Stores purchases (in crores of Rs.)—												
Indigenous	9.22	7.89	8.79	7.27	8.94	9.29	13.78	20.88	12.17	11.64	11.04	21.99
Total	12.05	11.93	13.13	11.13	16.57	13.35	23.46	29.17	23.22	18.50	20.56	23.75
Operating revenue and expenditure (in crores of Rs.)—												
Revenue—Gross receipts	44.25	46.82	N. A.	N. A.	43.25	47.93	49.98	52.53	55.03	58.68	62.82	68.57
Working expenses including depreciation etc. and miscellaneous expenses.	34.54	35.03	N. A.	N. A.	39.19	42.86	45.43	52.23	51.31	53.58	56.43	60.48
Net revenue receipts	9.71	11.79	N. A.	N. A.	4.06	5.07	4.55	0.30	3.72	5.10	6.39	8.09
Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.	8.43	10.20	N. A.	N. A.	3.25	3.82	3.13	0.19	2.15	2.81	3.37	3.83
Operating ratio (per cent)	78.65	74.35	N. A.	N. A.	80.53	90.15	88.20	96.34	92.77	89.05	88.77	85.47
Dividend to General Revenues	4.54	4.57	N. A.	N. A.	4.83	4.99	5.04	5.97	6.65	7.00	7.31	8.29
Payments to States in lieu of tax on Passenger fares.	..	..	..	..	..	..	..	..	..	..	..	2.12
Surplus (+)/Deficit (—)	(+) 5.17	(+) 7.12	N. A.	N. A.	(—) 0.77	(+) 0.08	(—) 0.49	(—) 5.67	(—) 2.93	(—) 1.99	(—) 0.92	(—) 2.32

Details	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
Assets— (As on 31st March)															
Capital-at-charge (Rs. in crores)	390.82	431.99	474.61	502.58	517.97	530.77	555.32	596.61	635.89	680.58	719.41	784.82	848.08	921.29	983.90
Total Investment (Rs. in crores)	485.02	529.45	577.37	611.21	625.15	647.40	677.82	728.10	777.77	835.42	890.88	974.29	1,055.15	1,157.41	1,257.41
Route Kilometres Electrified	166.44	166.44	166.44	166.44	166.44	166.44	255.18	335.18	343.96	385.26	385.26	529.01	598.39	598.39	598.39
Total ..	7,452.32	7,452.32	7,448.73	7,578.73	6,488.76	6,488.76	6,629.24	6,702.53	6,702.53	6,700.80	6,710.36	6,722.30	6,728.66	6,711.76	6,756.36
Running track Kilometres Electrified	220.66	220.66	220.66	220.66	220.66	220.66	406.08	567.08	572.56	672.82	672.82	960.29	1,102.77	1,137.65	1,138.65
Total ..	8,262.59	8,276.74	8,297.96	8,443.62	7,375.25	7,387.73	7,537.76	7,537.76	7,629.45	7,660.75	7,725.09	7,756.18	7,772.47	7,790.45	7,836.05
Number of Stations	1,017	1,016	1,000	1,002	883	881	887	884	882	868	876	868	861	862	852
Rolling Stock—															
Locomotives															
Steam	943	934	911	916	799	792	761	702	592	382	370	364	358	336	229
Diesel	244	267	278	278	191	205	213	228	266	280	286	308	316	317	325
Electric	20	20	20	20	20	20	20	20	20	20	20	20	27	41	51
Coaching stock															
Passenger carriages	3,777	3,856	3,820	3,727	3,899	3,880	3,879	3,834	3,727	3,669	3,756	3,766	3,811	3,812	3,793
Electric Multiple Unit	171	171	171	171	171	192	272	348	358	354	353	353	371	371	371
Coaches.															
Rail cars	18	18	18	13	11	11	14	11	7	7	7	7	10	10	10
Other coaching vehicles	1,066	1,049	1,029	988	943	928	902	893	845	824	817	809	793	768	746
Wagons	34,173	33,863	35,104	30,029	31,723	31,062	31,005	30,032	29,588	28,582	27,547	26,503	26,325	25,885	24,886
Staff—															
No. of employees (in 1000s)	135.0	136.0	137.7	138.6	124.9	129.5	135.2	136.3	137.6	137.0	140.9	139.7	141.3	142.2	142.5
Cost of staff (in crores of Rs.)	57.96	73.75	88.40	92.30	91.42	87.99	110.75	128.46	147.84	180.28	208.67	241.01	264.11	325.55	402.1
Average cost per employee (in Rs.)	4,314	5,450	6,419	6,668	6,528	7,613	8,443	9,515	10,784	13,214	14,885	17,342	18,686	23,021	28,216
For the year—															
Transportation Out-put—Train-kilometres excluding Departmental (in millions)—															
Passenger and proportion of mixed	30.06	25.20	33.82	35.54	35.59	32.25	32.43	33.72	33.23	35.67	37.35	33.38	38.02	38.57	39.35
Goods and proportion of mixed	16.28	16.24	17.40	18.40	16.15	13.03	12.48	11.93	13.49	13.00	13.48	14.12	14.99	15.65	15.58
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—															
Vehicle kilometres	579	529	642	697	679	631	642	661	689	715	743	763	769	800	856
Wagon kilometres	805	802	865	913	808	655	646	628	747	709	766	817	817	945	962
Volume of Traffic—															
Passenger Traffic—															
No. of passengers originating (in millions)	253	218	267	298	310	331	302	333	346	344	276	279	283	296	307
Passenger kilometres (in millions)	11,415	10,700	12,217	14,420	15,448	16,278	16,135	18,128	19,294	20,344	18,590	19,898	20,821	20,952	21,904
Passenger earnings (in crores of Rs.)	38.4	41.5	49.2	55.4	60.3	62.2	67.2	78.1	96.5	116.2	125.7	141.0	161.61	180.81	194.89
Average lead (in kilometres)	44.7	48.29	48.80	47.70	49.20	48.5	52.5	53.6	54.9	58.2	65.8	69.7	71.8	69.1	69.1
Average rate per passenger kilometre (in paise).	3.36	3.88	3.58	3.82	3.88	3.82	4.16	4.31	5.00	6.00	6.76	7.09	7.76	8.63	8.90
Goods Traffic—															
Tonnes originating (in millions)—															
Revenue earning Traffic	12.9	13.0	13.4	14.2	13.0	11.0	10.9	10.9	12.9	12.2	11.4	13.2	13.9	13.9	14.2
Total Traffic	13.7	13.8	14.6	15.5	14.0	11.9	11.8	11.8	13.9	13.7	12.7	14.4	15.2	15.3	15.9
Net tonne kilometres (in millions)—															
Revenue earning traffic	8,726	9,052	9,643	10,237	9,101	7,996	7,761	7,686	9,575	9,093	10,104	11,041	11,829	11,724	11,638
Total traffic	9,324	9,664	10,323	10,855	9,647	8,386	8,190	8,067	9,846	9,374	10,367	11,327	12,129	11,944	11,932
Earnings from goods carried excluding wharfe and demurrage charges (in crores of Rs.).	55.1	67.7	84.7	90.78	83.94	72.46	79.90	84.92	133.72	155.03	187.89	208.66	240.01	257.36	291.50
Average lead (in kilometres) (Revenue)	433.0	434.0	437.0	428.0	374.0	350.0	342.0	333.0	358.0	376.0	406	390	377	362	341
Average rate per tonne kilometre (in paise)	6.31	7.47	8.52	8.87	8.70	8.64	9.76	10.53	13.58	16.54	18.60	18.90	20.29	21.95	25.05
Quantity of fuel consumed by locomotives—															
Coal (in thousand tonnes)	1,128	1,023	1,214	1,200	1,120	934	892	868	635	474	446	426	390	340	262
Diesel oil (in kilolitres)	131,524	133,660	140,010	148,840	125,039	97,747	102,627	106,091	117,688	127,035	129,864	138,033	144,817	144,996	153,677
Stores purchased (in crores of Rs.)—															
Indigenous	40.0	53.75	70.45	69.15	52.40	49.78	82.14	118.33	136.01	147.51	148.38	162.27	179.97	204.46	230.93
Total	44.9	62.60	76.11	74.63	53.40	51.28	86.51	124.37	145.98	158.88	161.42	173.23	199.17	222.61	247.77
Operating revenue and expenditure (in crores of Rs.)—															
Revenue—Gross receipts	106.67	122.67	151.34	165.55	149.15	155.44	172.11	192.03	263.34	310.36	354.95	394.14	464.97	506.18	554.09
Working expenses including depreciation etc. and miscellaneous expenses.	109.58	131.39	160.66	180.49	168.26	176.70	207.81	236.57	305.13	368.16	437.13	490.14	556.06	646.84	716.16
Net revenue receipts	(=) 2.91	(-) 8.72	(-) 9.32	(-) 14.94	(-) 19.11	(-) 21.26	(-) 35.70	(-) 44.54	(-) 41.79	(-) 59.22	(-) 83.85	(-) 96.00	(-) 91.09	(-) 123.69	(-) 149.22
Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.	(-) 0.56	(-) 2.0	(-) 2.0	(-) 3.2	(-) 3.7	(-) 4.13	(-) 6.53	(-) 7.44	(-) 6.84	(-) 8.70	(-) 11.42	(-) 12.40	(-) 11.06	(-) 13.42	(-) 14.99
Operating ratio (per cent)	102.05	106.04	105.7	109.70	112.8	113.7	120.74	123.19	115.87	118.62	123.15	124.36	119.59	130.08	129.50
Dividend to General Revenues	17.99	20.20	21.26	22.34	22.60	22.91	22.25	33.57	36.16	41.89	42.42	46.35	50.90	55.67	61.42
Payments to States in lieu of tax on Passenger fares.															
Surplus (+)/Deficit (-)	(-) 20.90	(-) 28.92	(-) 30.58	(-) 37.28	(-) 41.71	(-) 44.86	(-) 58.51	(-) 78.11	(-) 71.15	(-) 90.39	(-) 116.17	(-) 132.81	(-) 135.12	(-) 179.06	(-) 210.64

1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-01	2001-02	2002-03	Details
1,075.55	1,195.87	1,320.46	1,423.42	1,796.23	1,844.87	1,869.20	1,831.59	1,780.38	2,177.34	2,555.48	2,965.63	3,375.13	3,773.92	4,142.37	Assets— (As on 31st March)
1,399.56	1,559.58	1,741.93	1,892.06	2,330.42	2,641.17	2,912.38	3,309.55	3,819.04	4,630.81	5,331.98	5,927.01	6,534.54	7,187.95	7,900.54	Capital-at-charge (Rs. in crores)
															Total investment (Rs. in crores)
598.39	649.60	775.56	959.09	959.09	972.56	1,001.7	1,115.80	1,227.74	1,259.29	1,316.04	1,352.05	1,352.05	1,483.91	1,558.56	Route Kilometres Electrified
6,757.76	6,924.04	6,924.04	6,928.26	7,009.00	7,020.55	7,050.97	7,049.47	7,040.49	7,009.51	7,145.88	7,144.03	7,164.83	7,197.13	7,192.88	Total
1,149.01	1,273.77	1,509.34	1,797.23	1,797.23	1,827.42	1,854.62	2,049.76	2,257.61	2,339.12	2,468.35	2,538.23	2,538.23	2,671.63	2,748.92	Running track Kilometres Electrified
7,849.89	8,049.4	8,059.52	8,062.06	8,142.80	8,171.53	8,211.20	8,212.99	8,223.87	8,244.86	8,427.7	8,494.40	8,593.64	8,658.94	8,689.71	Total
845	845	832	831	821	813	802	786	774	772	769 *	757	757	754	752	Number of stations.
171	168	138	117	75	41	10	10	10	10	10	10	10	10	10	Rolling Stock—
346	364	374	388	373	398	421	434	436	487	516	512	527	559	538	Steam ..
73	102	107	112	127	145	149	150	155	171	184	215	223	212	224	Diesel ..
3,919	3,958	4,068	4,233	4,452	4,574	4,559	4,632	4,863	5,012	4,869	*4,962	5,152	5,264	5,495	Electric ..
*371	378	389	392	415	418	449	477	512	537	592	595	603	627	603	Passenger carriages
															Electric Multiple Unit coaches.
4	4	4	4	4	4	4	4	2	—	2 *	2	2	2	2	Rail cars ..
696	641	610	573	535	523	505	519	531	544	517 *	* 281	271	273	270	Other coaching vehicles
24,334	23,903	24,693	24,402	23,536	21,016	17,956	16,280	15,311	15,629	16,475	15,888	14,732	13,558	13,031	Wagons
															Staff—
144.2	146.6	147.0	150.0	149.4	145.8	1,42,937	1,40,366	139,300	136,654	136,585	136,463	133,587	130,579	*126,992	No. of employees (in 1000s)
463.5	513.5	560.1	611.5	684.1	795.39	880.62	993.57 **	1,114.70	1,425.99	1,587.35	1,653.20	1,816.72	1,822.43	1,893.43	Cost of staff (in crores of Rs.)
32,148	35,079	38,150	40,826	45,886	550,97	616,17	70,784 **	80,075	1,04,435	1,16,397	1,21,214	1,360.72	1,39,636	1,49,003	Average cost per employee (in Rs.)
															For the year—
40.13	40.77	41.09	41.10	41.92	42.00	45.42	48.19	48.64	50.18	50.34	51.60	52.50	53.80	55.41	Transportation Output—Train kilometres excluding deport. mental (in millions)—
16.25	16.04	16.86	16.61	17.30	15.63	14.35	14.52	14.97	14.90	14.85	14.99	14.31	13.89		Passenger and proportion of mixed Goods and proportion of mixed Vehicle and wagon K.Ms. (excluding opt. mental and brake-vans) (in millions)—
876	890	902	913	944	954	1,022	1,065	1,073 *	1,133	1,170 *	1,210	1,296	1,373	1,435	Vehicle kilometres
1,007	1,018	1,107	1,103	1,146	1,090	1,044	1,077	1,185	1,190	1,132 *	1,250	1,326	1,280	1,289	Wagon kilometres
															Volume of Traffic—
282	295	318	332	317	318	349	365	381	417	402	* 423	465	492	466	Passenger Traffic—
22,097	23,637	25,044	27,021	25,017	24,115	27,224	29,880	31,998	35,328	37,298	40,458	44,968	46,725	46,867	No. of passengers originating (in millions)
															Passenger kilometres (in millions)
236.31	244.93	292.84	337.12	387.68	446.95	520.96	595.75	651.28	765.76	843.20	945.15	1,057.15	1,152.47	1,344.63	Passenger earnings (in crores of Rs.)
69.5	76.0	77.8	76.2	78.7	76.6	70.31	*75.83	79.5 **	81.4	82.73	92.05	93.24	87.28	96.14	Average lead (in kilometres)
10.69	10.36	11.69	12.48	15.50	18.53	*19.14	19.94	20.35	21.68	22.61	23.36	23.51	24.67	28.69	Average rate per passenger. K.M. (in paise)
															Goods Traffic—
16.8	17.3	18.6	19.6	20.7	19.0	19.27	21.02	23.41	27.53	29.34	29.51	30.09	24.88	24.08	Tonnes originating (in millions)—
18.4	18.8	20.0	20.98	21.97	20.1	20.39	22.20	24.55	29.00	30.95	30.94	32.11	27.27	24.86	Revenue earning traffic
11,906	11,998	13,200	13,201	13,622	129,91	12,931	13,864	15,018	15,251	14,629	15,788	16,623	15,506	15,924	Total traffic
12,200	12,282	13,467	13,467	13,857	131.58	13,091	14,026	15,141	15,407	14,763	15,921	16,791	15,725	16,118	Net tonne K.M. (in millions)—
316.50	374.12	439.32	472.16	524.31	602.65	670.69	779.38	884.33	1,065.44	1,068.34	1,159.72	1,287.76	1,210.66	1,256.59	Revenue earning traffic
346	351	342	353	350	349	331	330	304	303	311	311	312	331	331	Total traffic
26.58	31.18	33.28	35.77	38.49	46.39	51.87	56.22	58.89	69.86	73.03	73.46	77.47	78.07	78.91	Earnings from goods carried excluding wharfe and demurrage charges (in crores of Rs.)
															Average lead (in kilometres)
212	205	177	168	128	40	15.46	2.34	2.19	2.10	2.18	2.16	2.59	1.90	1.74	Average rate per tonne kilometre (in paise)
162,219	171,611	179,309	177,546	179,265	161,865	170,530 *	178,816 *	178,665 *	181,125	1,97,668	2,17,566	2,19,143	2,26,870	2,32,602	Quantity of fuel consumed by locomotives—
307.55	347.46	427.42	457.63	587.05	480.06	456.31	498.43	696.56	1,024.92	920.15	766.61	992.02	*934.29	1,246.79	Coal (in thousand tonnes)
324.63	391.39	454.57	476.18	617.49	505.13	493.35	507.23	719.08	1,040.55	972.00	*779.59	1,019.24	*958.58	1,260.63	Diesel oil (in kilolitres)
632.70	710.24	822.58	918.02	1,007.91	1,193.62	1,327.35	1,546.09	1,699.87	2,022.29	2,104.80	2,336.43	2,603.34	2,607.15	2,854.45	Stores purchased (in crores of Rs.)—
766.79	879.77	976.21	1,081.45	1,220.57	1,313.76	1,447.90	1,627.72	1,821.09	2,241.30	2,423.34	*2,679.55	3,140.57	3,251.10	3,398.97	Indigenous
(-)118.22	(-)150.00	(-)125.60	(-)127.78	(-)169.05	(-)66.31	(-)63.93	(-)31.24	(-)70.47	(-)161.45	(-)243.00	(-)249.87	(-)437.06	(-)630.86	(-)485.51	Total
(-) 10.99	(-) 12.54	(-) 9.51	(-) 8.98	(-) 9.41	(-) 3.27	(-) 2.81	(-)1.20	(-)2.39	(-)4.54	(-)5.99	(-)5.51	(-)8.81	(-)11.77	(-)8.47	Operating revenue and expenditure (in crores of Rs.)—
122.04	124.02	118.63	117.81	117.96	110.60	109.47	105.62	106.98	111.81	114.29	114.74	120.80	124.98	119.15	Revenue—Gross receipts
66.85	71.40	84.50	93.69	113.15	139.66	*145.15	146.31	143.62	142.90	185.71	217.23	248.25	259.83	289.15	working expenses including depreciation etc. and miscellaneous expenses.
															Net revenue receipts
(-) 185.07	(-) 221.41	210.11	(-)221.17	(-)282.20	(-)205.97	(-)209.08	(-)177.55	(-)214.09	(-)304.39	(-)428.71	(-)467.10	(-)685.31	(-)890.69	(-)774.66	Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.
															Operating ratio (per cent)
															Dividend to General Revenues
															Payments to States in lieu of tax on Passenger fares.
															Surplus (+)/Deficit (—)

Details	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11										
Assets—(As on 31st March)																		
Capital-at-charge (Rs. in crores)	3,532.81	3,715.46	4,056.06	4,154.34	4,333.30	4,647.65	5,656.53	6,807.94										
Total Investment (Rs. in crores)	6,854.27	7,516.98	8,433.90	9,564.02	11,069.18	12,985.77	14,871.47*	16,846.30										
Route Kilometres Electrified	1,501.88	1,477.02	1,729.23	1,600.22	1,722.90	1,816.36	1,875.31	2,197.90										
Total ..	5,234.48	5,209.62	5,209.62	5,159.85	5,169.42	5,145.61	5,098.07	5,102.12										
Running track Kilometres Electrified	2,578.01	2,595.20	2,952.73	2,823.72	2,957.41	3,064.91	3,332.08	3,580.26										
Total ..	6,628.99	6,678.34	6,717.96	6,686.96	6,707.54	6,718.68	6,759.53	6,789.17										
Number of Stations	601	599	597	536	545	552*	566	557										
Rolling Stock—																		
Locomotives																		
Steam	10	10	10	10	10	10	10	11										
Diesel	421	421	426	416	393	373	393	384										
Electric	243	223	241	265	279	290	306	333										
Coaching stock																		
Passenger carriages	4,283	4,518	4,699	4,897	5,507*	5,562	5,656	4,934										
Electric Multiple Unit	607	704	618	676	669	677	614	714										
Coaches																		
Rail cars	2	2	2	0	0	0	0	0										
Other coaching vehicles	206	387	464	499	282*	281	385	454										
Wagons	12,405	11,813	11,530	11,064	11,224*	10,653	10,548	10,258										
Staff—																		
No. of employees (in 1000s)	106.844	106.258	104.865	105.177	104.680	102.472	99.329	95.741										
Cost of staff (in crores of Rs.)	1,835.52	2,055.00	2,147.91	2,250.82	2,415.74	4,374.27	5,283.43*	5,643.78										
Average cost per employee (in Rs.)	1,71,7081	1,93,645	2,04,896	2,14,787	2,30,624	4,30,712	5,00,882*	5,89,484										
For the year—																		
Transportation Out-put—Train-kilometres excluding Departmental (in millions)—																		
Passenger and proportion of mixed	46.99	46.28	47.22	38.42	38.90	39.79	41.64	44.17										
Goods and proportion of mixed	11.71	11.58	11.93	12.23	12.25	12.69	11.97	11.53										
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—																		
Vehicle kilometres	1,208	1,225	1,280	1,253	1,345	1,404	1,483	1,590										
Wagon kilometres	1,134	1,128	1,159	1,226	1,285	1,566	1,528	1,520										
Volume of Traffic—																		
Passenger Traffic—																		
No. of passengers originating (in millions)	418	460	496	565	621	687	690	734										
Passenger kilometres (in millions)	38,970	43,069	46,609	55,092	57,327	69,391	70,216	74,664										
Passenger earnings (in crores of Rs.)	1,58.66	1,238.82	1,332.56	1,510.77	1,805.86	2,094.09	2,154.61	2,317.69										
Average lead (in kilometres)	88.58	87.61	89.17	93.97	87.89	93.89	95.15	94.70										
Average rate per passenger kilometres (in paise)	29.73	28.76	28.59	27.42	31.50	30.18	30.69	31.04										
Goods Traffic—																		
Tonnes originating (in millions)—																		
Revenue earning Traffic	23.58	22.71	26.94	31.52	30.03*	33.75	35.73	35.11										
Total Traffic	24.24	23.19	27.27	31.31	30.26*	34.32	36.20	35.50										
Net tonne kilometres (in millions)—																		
Revenue earning traffic	13,341	13,931	14,736	14,968	15,116	16,234	16,644	15,743										
Total traffic	13,596	14,058	14,825	15,008	15,140	16,272	16,673	15,775										
Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)	1,036.42	1,083.04	1,288.45	1,471.88	1,617.61	1,840.80	1,818.03	1,869.51										
Average lead (in kilometres) (Revenue)	283	280	263	234	225	236	362	377										
Average rate per tonne kilometre (in paise)	77.69	77.74	87.44	98.34	107.01	267.90	109.23	118.72										
Quantity of fuel consumed by locomotives—																		
Coal (in thousand tonnes)	1.86	1.97	1.85	1.74	1.90	1.46	1.51	.58										
Diesel oil (in kilolitres)	1,80,078	1,79,191	1,85,225	1,86,260	1,82,379	1,805.77	1,789.53	1,810.60										
Stores purchased (in crores of Rs.)—																		
Indigenous	974.15	1,260.84	1,638.44	1,790.10	1,901.84	3,003.37	2,872.53*	2,467.66										
Total	1,015.49	1,283.20	1,699.65	1,800.81	2,308.19	3,050.84	2,890.88	2,469.21										
Operating revenue and expenditure (in crores of Rs.)—																		
Revenue—Gross receipts	2,419.39	2,579.34	2,913.06	3,330.81	3,772.04*	4,324.05	4,456.90	4,790.27										
Working expenses including depreciation etc. and miscellaneous expenses	2,879.45	3,123.99	3,334.34	3,522.94	3,968.17*	5,451.02	6,139.53	6,467.85										
Net revenue receipts	(-) 400.25	(-) 501.80	(-) 551.27	(-) 244.85	(-) 191.13	(-) 1,126.97	(-) 1,689.53*	-1,670.60										
Percentage of net revenue receipts to the capital-at-charge and investment from capital fund	(-) 8.97	(-) 10.80	(-) 11.06	(-) 4.82	(-) 3.67	(-) 24.25*	(-) 19.05*	-16.30										
Operating ratio (per cent)	118.55	120.79	114.46	105.85	105.07	126.06	137.47	135.55										
Dividend to General Revenues	248.13	231.17	249.47	264.30	294.87	311.54	357.86	321.32										
Payments to States in lieu of tax on Passenger fares																		
Surplus (+)/Deficit (-)	(-) 848.38	(-) 732.97	(-) 800.74	(-) 509.15	(-) 491.20	(-) 1,447.62	(-) 2,047.39	-1,991.92										

* Revised

No. of Staff
(Figures in Thousands)

Open line : 94
Construction : 2
Total : 96

SOUTHERN RAILWAY DENSITY STATEMENT FOR THE YEAR 2010-2011—BROAD GAUGE

Serial No.	Name of the Section	Route Kms. of the Section	Whether the Section is Single/Double/Trip	Whether the Section is Electrified	Average daily No. of Coaching trains run on the Section		Average total daily No. of Vehicles (in terms of 4-wheelers) run on the Section		Average daily No. of Goods trains run on the Section		Average daily total No. of wagons (in terms of 4-wheelers) run on the Section		Net tonnes Kms. per route Kms. per day		Total (14 + 15)	Gross tonne kilometres (including weight of engine and Departmental) for goods including proportion of mixed per route kilometre per day		Gross tonne kilometres (including weight of engine and Departmental) for Coaching including proportion of mixed per route kilometre per day		Gross tonne kilometres (including weight of engine and Departmental) for Coaching and Goods services combined per route kilometres per day		Average net load per Goods train	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
CHENNAI DIVISION																							
1	MAS-GDR	136	D	E	65.015	65.015	1241.354	1241.354	9.504	7.481	430.738	336.413	21028	4535	25565	33719	14097	42456	42456	77175	57553	2213	606
2	MAS-AU	69	D	E	158.202	158.202	2436.567	2436.567	14.824	16.570	733.518	814.218	11827	43856	55684	32460	66921	91925	91925	124385	158946	798	2647
3	ALL-TU	144	D	E	34.346	34.346	1329.826	1329.826	19.061	20.059	905.693	945.550	8060	51697	59758	33673	78480	38746	38746	72418	117225	423	2577
4	ALL-RU	72	D	E	14.155	14.155	355.264	355.264	16.105	14.874	758.701	706.553	39994	21898	61893	61575	42049	10994	10994	72569	53042	2483	1472
5	MSB-VLCY EMU	20	D	E	64.387	64.387	415.644	415.644	0.000	0.000	0.000	0.000	0	0	0	0	0	19936	19936	19936	53042	0	0
6	VN-KDK	168	S	E	22.434	22.434	817.815	817.815	1.525	1.902	63.118	90.644	2002	5153	7155	3966	7699	23890	23890	27856	31588	1313	2709
7	CGL-AU	63	S	E	3.583	3.583	71.133	71.133	0.009	0.000	0.011	0.329	7	1	8	65	48	2229	2229	2294	2277	816	0
PALAKKAD DIVISION																							
1	PTJ-PGT	52	D	E	25.589	25.589	932.749	932.749	9.193	7.571	387.537	322.605	8727	15205	23932	21148	25557	27333	27333	49481	52889	949	2008
2	PGT-SRR	44	D	E	26.474	26.474	985.014	985.014	8.296	8.767	330.883	365.698	6957	16682	23639	17713	28379	28748	28748	46461	57126	839	1903
3	SRR-CLT	86	D	NE	22.015	22.015	805.947	805.947	4.648	4.436	174.096	173.621	4766	7451	12217	10637	13242	23384	23384	34021	36626	1025	1680
4	CLT-CAN	89	D	NE	21.873	21.873	800.073	800.073	3.491	3.688	132.863	132.951	5274	3768	9043	9939	8342	22224	22224	33163	31566	1511	1022
5	CAN-MAQ	131	D	NE	18.066	18.066	687.504	687.504	3.190	3.329	125.602	119.787	5982	1396	7378	10370	5465	19968	19968	30336	25433	1875	419
6	PGT-PGTN	4	S	NE	3.000	3.000	55.803	55.803	0.473	0.492	10.871	10.553	241	371	611	652	766	1869	1869	2521	2634	509	754
7	SRR-NIL	66	S	NE	6.003	6.003	139.461	139.461	0.103	0.087	1.290	1.542	3	84	87	87	176	4202	4202	4289	4378	32	951
8	MAQ-PNMB	22	S	NE	6.236	6.236	190.270	190.270	2.072	1.531	65.034	75.655	2481	380	2867	4770	3107	5876	5876	10646	8983	1198	248
TRIVANDRUM DIVISION																							
1	SRR-CHS	108	D	E	35.011	35.011	1309.092	1309.092	6.134	6.731	245.847	272.300	5825	10480	16306	13730	19065	38080	38080	51810	57145	950	1557
2	ERS-QLN	156	S	E	21.209	21.209	788.066	788.066	1.812	1.599	64.131	59.322	1511	1831	3342	3793	3875	22921	22921	26714	26796	834	1145
3	QLN-TVC	65	D	E	26.192	26.192	986.066	986.066	1.400	2.159	53.702	85.598	659	2126	2784	2468	4933	28628	28628	31086	33561	470	995
4	NCJ-TEN	73	S	NE	9.797	9.797	328.542	328.542	1.121	1.870	43.477	75.129	773	1244	2017	2131	3608	9508	9508	11738	13216	689	665
5	CAPE-TVC	87	S	NE	9.983	9.983	320.312	320.312	0.855	1.445	33.063	58.007	489	1050	1539	1567	2925	9361	9361	10928	12286	572	726
6	ERS-ALLP	57	S	E	15.081	15.081	530.110	530.110	1.792	2.018	69.123	79.942	416	3640	4056	2566	6166	15425	15425	17992	21591	232	1804
7	ALLP-KYJ	44	S	E	12.333	12.333	418.003	418.003	1.680	1.815	62.440	72.622	472	3317	3780	2412	5601	12182	12182	14604	17783	285	1827
8	TCR-GUV	23	S	E	5.921	5.921	179.965	179.965	0.000	0.000	0.000	0.000	0	0	0	10	10	5239	5239	5248	5248	0	0

SALEM DIVISION																			
1	JT-SA	E	D	120	25.542	25.542	1030.953	1030.953	14.929	722.594	725.463	8417	39154	47571	23381	60267	29338	29338	29338
2	SA-ED	E	D	59	33.651	33.651	1318.766	1318.766	10.887	11.304	483.590	504.650	13392	24954	37856	28146	39826	39401	39401
3	ED-PTJ	E	D	107	31.209	31.209	1173.377	1173.377	8.995	8.201	353.691	351.839	6800	17389	24389	18501	28727	34263	34263
4	ED-TP	NE	S	137	11.857	11.857	312.716	312.716	3.439	3.859	157.707	182.523	2300	9822	12121	7241	15415	9752	9752
5	SA-MTDM	E	S	40	4.159	4.159	109.682	109.682	5.020	7.047	287.513	409.598	1817	23303	25120	10366	34950	3339	3339
6	VRJ-SA	NE	S	139	3.877	3.877	106.899	106.899	0.768	0.642	32.544	28.099	1629	462	2091	2684	1415	3223	3223
7	DG-KRR	NE	S	74	5.161	5.161	164.911	164.911	2.051	1.583	90.117	75.869	3772	2985	6756	6566	5365	4849	4849
8	CBM-MTP	NE	S	36	4.014	4.014	86.494	86.494	0.087	0.081	1.794	1.739	93	7	100	179	81	2705	2705
9	KRR-SA	NE	S	85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0
MADURAI DIVISION																			
1	DG-MDU	NE	D	66	18.752	18.752	677.432	677.432	2.721	1.979	116.640	84.675	4122	3675	7797	7834	6431	19706	19706
2	MEJ-MDU	NE	S	127	14.493	14.493	528.557	528.557	2.037	1.388	88.331	58.574	3925	1708	5533	6916	3807	15332	15332
3	MEJ-TN	NE	S	31	4.066	4.066	115.932	115.932	1.272	1.367	55.424	56.648	3046	469	3514	4883	2396	3472	3472
4	MEJ-TEN	NE	S	29	13.041	13.041	437.707	437.707	1.442	0.632	55.538	22.932	137	1176	1313	2143	2151	12798	12798
5	TEN-TCN	NE	S	61	4.334	4.334	66.773	66.773	0.000	0.000	0.000	0.000	0	0	0	7	7	2202	2202
6	VPT-SCT	NE	S	130	4.087	4.087	127.441	127.441	0.025	0.031	0.494	0.623	3	20	22	43	61	3705	3705
7	RMM-MNM	NE	S	113	7.045	7.045	178.028	178.028	0.028	0.031	1.176	1.236	15	59	74	68	114	5392	5392
8	MNM-MDU	NE	S	48	3.745	3.745	69.697	69.697	0.096	0.107	3.652	4.033	80	67	146	272	264	2220	2220
9	DG-TPJ	NE	S	94	13.593	13.593	496.474	496.474	1.172	0.915	49.443	34.692	955	1879	2834	2545	3024	14468	14468
10	MNM-TPJ	NE	S	151	5.762	5.762	118.293	118.293	0.094	0.090	4.047	3.980	110	151	261	270	309	4463	4463
11	QLN-PUU	NE	S	45	3.541	3.541	93.302	93.302	0.000	0.000	0.000	0.000	0	0	0	0	0	2752	2752
TIRUCHIRAPPALLI DIVISION																			
1	TP-TPJ	NE	S	4	7.522	7.522	211.551	211.551	2.589	2.821	124.063	140.352	845	8057	8901	4566	12194	6265	6265
2	TPJ-MV	NE	S	120	15.403	15.403	359.777	359.777	1.813	1.396	84.902	66.653	1113	3619	4732	3686	5643	12039	12039
3	VRJ-CUPJ	NE	S	57	2.006	2.006	40.143	40.143	0.696	0.696	31.725	31.271	1252	152	1404	2199	1201	1245	1245
4	PDY-VM	E	S	38	6.763	6.763	135.943	135.943	0.172	0.162	7.512	7.106	154	329	483	423	588	4271	4271
5	VM-MV	NE	S	122	5.139	5.139	151.109	151.109	0.870	0.505	36.761	21.801	1611	1104	2715	2735	1797	4496	4496
6	TPJ-VM	E	S	178	18.618	18.618	702.264	702.264	1.756	2.078	75.257	94.826	1904	4545	6450	4333	7518	20610	20610
7	TJ-TVR	NE	S	54	6.880	6.880	152.093	152.093	2.495	2.375	126.777	121.087	580	7011	7990	4321	10585	4975	4975
8	VM-KPD	E	S	160	0.189	0.189	2.525	2.525	0.568	0.213	24.913	9.013	925	522	1447	1704	882	90	90
9	TVR-NCR	NE	S	30	6.859	6.859	151.887	151.887	2.147	2.268	113.526	118.911	6548	450	6998	9911	3968	4855	4855
10	VLKN-NGT	NE	S	10	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	0	0

Note : Route Kilometre as per Annual Statistical Statement No. 8 for B. G.

4203.86

Route Kilometre as per Density Statement for B. G.

4237.00

The difference is due to Non-inclusion of Villuakkam(VLK) Annanagar(ANNG) in any section (The Traffic has been included in Chennai (MAS). Arakkonam(AJJ) Section, Panamburu Yard, Cochin Harbour Yard, Tiruchirappalli Yard, Chennai Local Kilometres like Basinbridge(BBQ) To Washermenpet(WST)link, Vyasaradi(VPY) to Korukkupet (KOK)link etc. and rounding off.

SOUTHERN RAILWAY DENSITY STATEMENT FOR THE YEAR 2010-2011—METRE GAUGE

Serial No.	Name of the Section	Route Kms. of the Section	Whether the Section is Single/Double/ Triple	Whether the Section is Electrified	Average Daily No. of Coaching trains run on the Section	Average total Daily No. of Vehicles (In terms of 4-wheelers) Run on the Section	Average Daily No. of Goods trains run on the Section	Average Daily total No. of wagons (In terms of 4-wheelers) Run on the Section	Net tonne Kms. per route Kms. per day	Total (14 + 15)	Gross tonne kilometres (Including weight of engine and Departmental) For goods including proportion of mixed per route kilometre per day	Gross tonne kilometres (Including weight of engine and Departmental) For Coaching including proportion of mixed per route kilometre per day	Gross tonne kilometres (Including weight of engine and Departmental) for coaching and Goods services combined per route kilometre per day	Average net load per Goods train									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
					Up.	Dn.	Up.	Dn.	Up.	Dn.	Up.	Dn.	Up.	Dn.		Up.	Dn.	Up.	Dn.	Up.	Dn.	Up.	Dn.
	MADRAS DIVISION																						
2	SCT-PUU	49	S	NE	4.000	4.000	72.000	72.000	0.000	0.000	0.000	0.000	0	0	0	0	0	1470	1470	1470	1470	0	0
4	MDU-BDNK	90	S	NE	0.882	0.882	9.775	9.775	0.000	0.000	0.000	0.000	0	0	0	0	0	228	228	228	228	0	0
	SALEM DIVISION																						
1	MTP-UAM	46	S	NE	4.986	4.986	40.984	40.984	0.000	0.000	0.000	0.000	0	0	0	24	24	633	633	707	707	0	0
	TIRUCHIRAPPALLI DIVISION																						
2	TVR-TTP	26	S	NE	6.330	6.330	53.757	53.757	0.000	0.000	0.000	0.000	0	0	0	11	11	1360	1360	1371	1371	0	0
3	TTP-KKOI	123	S	NE	3.982	3.982	33.818	33.818	0.004	0.004	0.073	0.073	2	0	2	3	1	847	847	850	848	571	0

Note : Route Kilometre as per Annual statistical Statement No. 8 for M. G.
Route Kilometre as per Density Statement for M. G.

898.26
334.00

The difference is due to Inclusion of sections under Gauge conversion Marimadurai(MNM)-Virudunagar(VPT) 67 Kms., Tiruchirappalli(TTP)-Agastyanpalil(AGX)37 Kms., Tambarani(TBM)-Villupuram(VM) 133 Kms., Tirunelveli Town (TVT)-Tenkasi(TSJ)77 Kms., Pollachi(POY)-Pallakad Town (PGTN) 58Kms., Pollachi (POY)-Podanur (PTJ) 40 Kms., Dindigul (DG) to Pollachi (POY) 121 Kms., Mayiladuthurai (MV)-Tiruvannur (VR) 38 Kms., Totalling 571 and rounding Off.

SOUTHERN RAILWAY

DENSITY STATEMENT FOR ARTERIAL ROUTES AND OTHER ROUTES FOR THE YEAR—2010–2011

(Figures in Thousands)

Routes	NTKM		GTKM					
	Up	Down	Goods		Coaching		Combined	
			Up	Down	Up	Down	Up	Down
BROAD GAUGE								
Arterial	58,73,850	1,11,41,453	1,32,75,540	1,86,02,027	2,18,63,747	2,18,63,747	3,51,39,287	4,04,65,774
Others	3,72,656	4,62,820	8,06,391	8,47,467	36,85,764	36,85,764	44,92,155	45,33,231
	62,46,506	1,16,04,273	1,40,81,931	1,94,49,494	2,55,49,511	2,55,49,511	3,96,31,442	4,49,99,005
METRE GAUGE								
Arterial	0	0	0	0	12,461	12,461	12,461	12,461
Others	71	0	386	313	45,494	45,494	45,880	45,807
	71	0	386	313	57,955	57,955	58,341	58,268