

General Manager's ANNUAL REPORT

2011—2012

SOUTHERN RAILWAY

Headquarters Office,
General Branch,
Chennai-600 003.

June 2013
Aashada 1935

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 2012.



10.6.2013.

RAKESH MISRA
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	2011-12
Financial Position —			
Capital-at-Charge	Rs. in Crores	6807.94	8004.45
Capital Fund	Rs. in Crores	3438.76	3565.81
Gross Earnings	Rs. in Crores	4790.27	5608.08
Working expenses (excluding suspense)	Rs. in Crores	4820.47	5040.32
Net Earnings	Rs. in Crores	-1670.6	-1297.62
Operating Ratio	Percentage	135.55	122.58
Percentage of Net Earnings to Capital-at-charge and investment from Capital Fund.	Percentage	-16.3	-11.22
Passenger Statistics —			
No. of Passengers Originating	In Millions	734	801
No. of Passengers Carried	In Millions	788	860
Passenger Kilometres	In Millions	74664	82512
Earnings from Passenger Carried	Rs. In Crore	2317.69	2565.97
Average Earning per Passenger Kilometers	In Paise	31.04	31.1
Average length of Passenger journey	Kilometre	94.7	95.93
Freight Statistics —			
Freight Tonnes Originating	In Millions	35.11	39.4
Freight Tonnes Carried	In Millions	61.9	64.21
Freight Tonne Kilometres	Kilometer	15748	17354
Earnings from Goods Carried	Rs. in Crore	1869.52	2140.29
Average Earning per Freight Tonne Kilometers	in Paise	118.72	123.33
Average Lead of Tonne of Goods (Revenue)	Kilometre	*254	270
Train Statistics —			
Train Kms. Pass & Goods incl. Dept. EMU, MEMU, DEMU (in thousands)	Kilometer	67351	69690
Gross Earnings per Train Kilometers	Rs.	711.24	804.72
Working Expenses per Train Kilometers	Rs.	715.72	723.25
Net Earnings per Train Kilometers	Rs.	*248.04	-186.2
Staff —			
No. of Staff as on 31st March	Number	95741	944.92
Cost of Staff	Rs. In Crores	*4647.59	4993.43
Station and Route Kilometrage —			
No. of Stations as on 31st March (Excl. Halts & incl. Block Huts) ..	Number	*597	590
Route Kilometers as on 31st March	Kilometer	5102.12	4993.9

* 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 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 2011-2012.	NIL	
2.	No. of Projects under implementation	18	List enclosed as Annexure
3.	Details of State Owned managed industries.	NIL	

I. Projects completed during 2011-2012

NIL

II. Projects under implementation

1. LNG Import Terminal Project (near Ennore Port) in Kattupalli, Tiruvallur District.
2. Shipyard cum Port Complex in Kattupalli, Tiruvallur District.
3. Petroleum Refinery Project of Nagarjuna Oil Corporation Limited.

4. TRIL Infopark Limited.
5. TICEL Bio Park – II, Chennai.
6. Medical Village project, Thiruvallur District.
7. TIDEL Park Coimbatore Limited.
8. Rakindo Kovai Township Private Ltd. – IT & ITES SEZ, Coimbatore Dist.
9. Agri Export Zone (AEZ) for Cashew in Cuddalore Dist.
10. SEZ for food Processing Sector in Thoothukudi Dist.
11. Nanguneri SEZ in Tirunelveli District.
12. Krishnagiri SEZ.
13. Integrated Textile Park in Coimbatore Dist.
14. Development of Marina on Tamilnadu Coast.
15. Integrated Food Irradiation facility & Services in Chennai.
16. Polymers Conversion Industries Park Project.
17. ETA Township, Sriperumbudur.
18. Petroleum, Chemicals and Petrochemicals Investment Region (PCPIR) in Cuddalore & Nagapattinam Districts.

FINAL ESTIMATES OF AREA, PRODUCTION AND YIELD RATE OF PRINCIPAL CROPS

STATE : TAMIL NADU

YEAR : 2011-12

CROP	Area (in '000 ha.)			Production (in '000 tonnes)			Yield Rate (kg/ha)		
	KHARIF	RABI	TOTAL	KHARIF	RABI	TOTAL	KHARIF	RABI	TOTAL
FOOD GRAINS									
Paddy	482.75	1422.98	1905.73	1504.61	4287.80	5792.41	3117	3013	3039
COARSE CEREALS									
Cholam (Jowar) ..	179.55	63.92	243.47	144.29	102.70	246.99	804	1607	1014
Cumbu (Bajra) ..	33.12	16.36	49.48	41.81	35.56	77.37	1262	2174	1564
Ragi	66.18	9.47	75.65	138.38	32.72	171.10	2091	3455	2262
Maize	143.80	86.69	230.49	554.83	472.70	1027.53	3858	5453	4458
Wheat	0.04	0.02	0.06	0.02	0.01	0.03	556	500	500
SMALL MILLETS									
Korra	0.84	0.02	0.86	0.38	0.01	0.39	452	500	453
Varagu	7.64	0.40	8.04	12.30	0.65	12.95	1610	1625	1611
Samai	17.94	0.01	17.95	17.24	0.01	17.25	961	1000	961
Other Cereals ..	2.61	2.71	5.32	1.45	1.50	2.95	556	554	555
Total Small Millets ..	29.03	3.14	32.17	31.37	2.17	33.54	..	..	..
Total Coarse Cereals (Except Paddy) ..	451.72	179.60	631.32	910.70	645.86	1556.56	..	..	..

STATE : TAMIL NADU

YEAR : 2011-12

CROP	Area (in '000 ha.)			Production (in '000 tonnes)			Yield Rate (kg/ha)		
	KHARIF	RABI	TOTAL	KHARIF	RABI	TOTAL	KHARIF	RABI	TOTAL
PULSES									
TUR (Redgram) ..	34.37	1.38	35.75	22.76	0.91	23.67	662	659	662
Urad (Blackgram) ..	39.44	265.00	304.44	20.93	102.88	123.81	531	388	407
Mung (greengram) ..	27.92	143.74	171.66	17.79	39.89	57.68	637	278	336
Kulthi (Horsegram) ..	14.72	32.61	47.33	8.44	13.29	21.73	573	408	459
Gram (Bengalgram) ..	5.92	1.38	7.30	3.95	0.99	4.94	667	717	677
Other Pulses ..	57.06	13.21	70.27	11.47	2.69	14.16	201	204	202
Total Pulses ..	179.43	457.32	636.75	85.34	160.65	245.99	..	..	..
Total Foodgrains ..	1113.90	2059.90	3173.80	2500.65	5094.31	7594.96	..	..	..

OIL SEEDS

Groundnut ..	268.16	117.35	385.51	504.56	391.08	895.64	1882	3333	2323
Sesamum ..	20.23	27.96	48.19	10.69	14.70	25.39	528	526	527
Castor ..	4.61	1.36	5.97	1.43	0.42	1.85	310	309	310
Sunflower ..	3.32	5.40	8.72	4.03	6.01	10.04	1214	1113	1151
Rapeseed & Mustard ..	0.30	0.00	0.30	0.07	0.00	0.07	233	..	233
Nigerseed ..	0.28	0.00	0.28	..	..	N. W.	..	..	..
Linseed.. ..	0.00	0.00	0.00	..	..	..	..	..	..
Sunflower ..	0.00	0.00	0.00	..	..	..	..	..	..
Soyabean ..	0.27	0.00	0.27	..	..	N. W.	..	..	..
Total Oil Seeds ..	297.17	152.07	449.24	520.78	412.21	932.99	..	..	..
Sugarcane \$\$..	..	..	315.96	..	..	34251.80	..	..	108

FIBRE CROPS

Cotton**..	96.84	23.92	120.76	180.35	67.59	247.94	317	480	349
Mesta ..	..	..	0.00	..	..	0.00	..	..	..
Jute ..	..	..	..	..	..	..	..	..	..
Sunhemp ..	..	..	@	..	..	@	..	..	..
Tobacco ..	0.02	5.35	5.37	0.03	8.09	8.12	1500	1512	1512

* Production and yield in terms of Rice.

** Production in thousand bales of 170 kgs. of lint each.

N.A.—Not Available / Not applicable / N. W.—Not worked out.

\$\$—Sugarcane Production in terms of Cane/yield rate tonne / ha.

@—Less than hundred ha.

The Major and Minor minerals available in the state and its uses are tabulated below :—

A. Major Mineral

S. No.	Mineral	Uses
1.	Lime Stone	Limestone is used based on the calcium content variation of other impurities it is mainly used in cement industry for the manufacture of Cement and Lime. It is used in Chemical Industry for making Bleaching powder, Soda ash, Calcium carbide and in Metallurgical, Pharmaceutical Industries.
2.	Magnesite & Dunite	Magnesite is mainly used as refractory bricks, magnesia cement (sorel cement which is used for making durable, fireproof). This sorel cement is used in hospital, hotels, bathrooms, ship decks etc. for jointless flooring and for wall tiles. It is also used as wood preservative.
3.	Silica Sand	Silica Sand is mainly used in the manufacture of glass other than this, it is used in making moulds and casts for materials in foundries.
4.	Lime Shell	It is used in chemical industries for the preparation of Acetylene.
5.	Fire Clay	It is used for making refractory bricks to line the walls of furnaces and boilers.
6.	Ball Clay	This clay is blended with other clays to make them suitable in preparing whiteware and also as bonding material in abrasives and fire bricks.
7.	Vermiculite	Vermiculite is mainly used as loose fill insulation for houses and factories. It is also used for insulation of articles such as bake-ovens, water heaters, thermal jugs and stoves.
8.	Gypsum	The main use of Gypsum is in the preparation of Plaster of Paris. It is also largely used for preparation of ammonium sulphate, a well known fertilizer and many insecticides.
9.	Marl	It is used in cement industry.
10.	Graphite	This is mainly used for making crucibles, electrodes, carbon brushes and plates. It is also used as a moderator in atomic reactor, fillers in fertilizers, batteries, boilers and coating gun powder. Further it is used as lubricants and for making black lead pencils.
11.	Garnet	The important property of Garnet is its hardness, toughness and irregular shape used in the manufacture of abrasives. The crushed Garnet material is used in scratch free purposes in semi-conductors, sand blasting to remove the coating formed due to algae on the ships and buildings.

S. No.	Mineral	Uses
12.	Limenite	limenite is used in manufacturing of white pigment known as Titanium White. This white pigment is used as raw material for paints and dyes. Titanium is a very light material, strong, durable, non-reactive and non-corrosive metal very much utilized in Aero space industries. It is also used as " Human spare parts " such as hip replacements and pace makers. The titanium white pigment is also used in organic solvents Titanium paint is used in preparation of rubber, artificial silk, coloured glass, glazing of pottery, plastics, ceramics enamel ware, electrodes, cosmetics, dye etc.
13.	Rutile	It is used in manufacture of white paint and also for making synthetic rutile which is about six time costlier than limenite. It is also used in manufacture of Titanium - di - Oxide.
14.	Zircon	It is used as good refractory material and can withstand temperature up to 2600°C. Ferro-zircon is used in industries to resist corrosion due to high temperatures. The other uses of Zircon are lasers, optical glass, permanent magnet, in application as Nuclear reactor control rods, Oxygen sensor, machine tools, additives etc.
15.	Silimanite	It is mainly used in making high temperature refractory bricks.
16.	Leucoxene	It is an opaque variety of limenite.
17.	Monazite	Monazite is a source material of thorium, a radio active material.
18.	Bauxite	It is mainly used as a raw material for the production of alumina which is used in the extraction of aluminium metal by electro-thermal process. Aluminium is largely used as alloys. Aluminium foil is used for wrapping purposes. Aluminium alloys are chiefly used for the construction of aircrafts, automobiles, petrol tanks, pistons, cylinder heads, window frames and interior fittings.
19.	Soapstone	It is used as filler and for making toilet soap and powder.
20.	Crude oil	It is mainly used in automobiles, in the preparation of industrial lubricants etc.
21.	Natural Gas	It is mainly used as a fuel.
22.	Lignite	It is mainly used for power generation.

S. No.	Mineral	Uses
23	Quartz	It is mainly used in watches, preparing quartz wedges and for the manufacture of glass. Further it is also used in making computer chips. It is also used in preparing refractory bricks.
24	Feldspar	It is mainly used in ceramic industries for making potteries, glasswares, enamels, porcelain and sanitary ware. It is also used in the manufacture of floor and wall tiles and in the preparation of artificial teeth.

B. Minor Mineral

S. No.	Mineral	Uses
1	Balck and Colour Granite	Balck Granite and Colour granite are used as decorative and ornamental purposes. It is mainly used in the production of monuments which are export worthy. It is also used in building, facade and as kitchen slabs.
2	Rough Stone	It is used in construction of buildings and making road etc.
3.	Quartzite	It is also used for construction purpose.
4.	Gravel/Earth/ Clay/Red soil/ Savudu	It is used for surfacing of roads and highways, and as a fine aggregate in concrete, mortar, plaster etc.

NAME OF THE MINERALS FOUND IN THE STATE AND THE PLACE OF OCCURRENCE, KERALA STATE**A. Minor Minerals**

Sl. No.	Name of the Minor Minerals	Place of Occurrence
1.	Granite Building Stone	Thiruvananthapuram, Kollam, Pathanamthitta, Kottayam, Ernakulam, Thrissur, Palakkad, Kozhikode, Malapuram, Wayanad, Kannur, Kasaragod.
2.	Granite Dimension Stone.	Thiruvananthapuram, Palakkad.
3.	Laterite	Thiruvananthapuram, Kollam, Pathanamthitta, Alappuzha, Ernakulam, Thrissur, Palakkad, Kozhikode, Malapuram, Kannur, Kasaragod.
4.	Lime Shell/Sea Shell	Alappuzha, Ernakulam, Kozhikode, Malapuram, .
5.	Brick Clay	Thiruvananthapuram, Kollam, Pathanamthitta, Alappuzha, Ernakulam, Thrissur, Palakkad, Malapuram, Wayanad, Kannur.
6.	Ordinary Sand	Thiruvananthapuram, Kollam, Pathanamthitta, Alappuzha, Kottayam, Idukki, Ernakulam, Palakkad, Kozhikode, Wayanad, Kannur, Kasaragod, Thrissur.
7.	River Sand	Entire State except Alappuzha District.

B. 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	Alappuzha
7.	Lime sheel	Alappuzha, Kottayam.
8.	Lime stone	Palakkad
9.	Bauxite/Latenite	Thiruvananthapuram, Kannur, Kasaragod, Kollam.
10.	Quartz	Wayanad
11.	Graphite	Thiruvananthapuram, Kottayam.

Mineral	Uses
Bauxite	Used as ore of Aluminium, Aluminium used for cars, board, Aircraft and aircraft engines, road sings and high village power lines.
China clay	Used in Refractories, Pharmaceuticals, paper and paint industries, Ceramics and face powder.
Limeshell	Used for cement, lime powder used for manufacture of white cement, paper and caustic soda factories.
Lime Stone	Lime Stone is used for manufacture of cement.
Zircon	Metals and Gemstones in nucleus industry for cladding fuel elements, used are abrasive, alloy agent in steel and for making surgical appliances, used as getter in vacuum tubes, in flash bulb for photograph, in explosive primers and in lamp filaments. Zircon oxide is used for laboratory crucibles for linings of metallurgical furnaces and by the glass and ceramic industries as refractory material.
Rutile	Source of Titanium (TiO ₂) and is used coating or welding roads, in aerospace industry for replacement of hip joints for pipes in the nucleus, oil and chemical industries where corrosion is likely to occur. TiO ₂ used in automobile, sports and medicine main use in paint as a paint pigment, other used includes coating for tiles, to treat the air to preserve fruits and vegetables and to remove pollution.
Ilmenite	Source of titanium, used for paint pigments, welding rod, coatings, ceramics, papers and in other uses of chemical industry.

2. MAJOR MINERALS

Sl. No.	Name of the Major Minerals	Place of Occurrence
	Sillimanite	Used in industries like cement, Ceramics glass making metals smelting, refinery and treatment for distillation, coat carbonisation, Chemical manufacture and iron foundaries.
	Granite Building Stone, Laterite, Ordinary sand, River sand.	Used as construction material.
	Granite Dimension stone.	Used as construction material and for flooring purpose.

**DEPARTMENT OF MINING AND GEOLOGY,
THIRUVANANTHAPURAM MINERAL WISE ROYALTY AND
PRODUCTION (2011-2012)**

Major Minerals

Minerals	Royalty (₹)	Production (Tonnes)
China Clay	12194665	812977.67
Ilmanite	16689804	146401.79

Minerals	Royalty (₹)	Production (Tonnes)
Rutile	8392352	10490.44
Zircon	20690792	16164.68
Sillimanite	1724636	5988.32
Silica Sand	5659113	45638.01
Lime Shell/Sea Shell	4018212	63781.14
Limestone	34417152	546304.00
Bauxite/Laterite	6840483	76859.36
Graphite	18720	327.04
Brilmanite	1031754	2579.39

Minor Minerals

Granite Building Stone	209623198	13101468.63
Granite Dimension Stone	1495844	373.96 (cbm)
Laterite	28124229	1757764.31
Lime/Sea Shell	474327	9486.54
Brick Clay	15883734	1588373.40
Ordinary Sand	38140791	3814079.10
River Sand	36972698	3697269.80

Units completed Implementation in 2011-12

Sl.	Name of Company	Project cost	KSIDC		
			Share	Loan	Total
1.	Hebron Aqua & Foods India Pvt. Ltd.	480.00	0.00	480.00	480.00
2.	Reva Proteins Ltd.	3,000.00	0.00	3,000.00	3,000.00
3.	Glass & Glazings Systems Pvt. Ltd.	871.70	0.00	871.70	871.00
4.	Sunpower Cements	1,550.00	0.00	524.00	524.00
5.	Kera Malwallah P Ltd...	354.00	0.00	354.00	354.00
6.	Cochin Hallmark Co (P) Ltd.	167.00	0.00	100.00	100.00
7.	Spice Route Ventures	360.00	0.00	216.00	216.00
8.	Excel Glasses	1,725.00	0.00	725.00	725.00
9.	Kalki Communications	250.00	0.00	250.00	250.00
10.	Eurotech Maritime Academy Pvt. Ltd.	1,710.00	0.00	925.00	925.00
Total		10,467.00	0.00	7,303.70	7,303.70

Units under Implementation as on 31-03-2012

Sl. No.	Name of Company	Project cost	KSIDC		
			Share	Loan	Total
1.	Kerala Enviro-Infrastructure Ltd.	..	100.00	0.00	100.00
2.	KGA Hotels	16,800.00	0.00	1,500.00	1,500.00
3.	Kapiko Kerala Resorts Pvt. Ltd.	28,665.00	0.00	2,000.00	2,000.00
4.	Islamic banking	..	110.00	0.00	110.00
5.	Sea Lagoon Hotels (P) Ltd.	1,700.00	0.00	850.00	850.00
6.	Foodco Delicacies India (P) Ltd.	800.00	0.00	400.00	400.00

Sl. No.	Name of Company				Project cost			KSIDC		
								Share	Loan	Total
7.	ULCCS IT Infrastructure Pvt. Ltd.	..	..	..	21,000.00	924.00	2,000.00	2,924.00		
8.	Geo Aquatic Products Pvt. Ltd.	..	..	..	1,000.00	0.00	600.00	600.00		
9.	Kerala Enviro-Infrastructure Ltd.	..	..	..	..	0.00	371.00	371.00		
10.	Abad Hotels India Pvt. Ltd.	..	..	..	390.00	0.00	234.00	234.00		
11.	Kumarakom Aqua Serene	..	..	..	1,100.00	0.00	496.00	496.00		
12.	TMV Natural Oils & Extracts Pvt. Ltd.	..	..	..	325.00	0.00	195.00	195.00		
13.	Cochin Waste To Energy Pvt. Ltd.	..	..	..	1,500.00	0.00	587.00	587.00		
14.	Parison Agro tech.	..	..	..	3,000.00	0.00	475.31	475.31		
15.	Carbomix Polymers	..	..	..	522.00	0.00	250.00	250.00		
16.	YTS Developers and Properties Ltd.	..	..	..	1,100.00	0.00	650.00	650.00		
17.	Travel Scapes Hotels Pvt. Ltd.	..	..	..	1,342.00	0.00	800.00	800.00		
18.	Tierra Food India Pvt. Ltd.	..	..	..	1,140.00	0.00	660.00	660.00		
19.	Hoteltek Traders (P) Ltd.	..	..	..	270.00	0.00	130.00	130.00		
20.	Steel & Industrial Forgings	..	..	..	1,172.00	0.00	586.00	586.00		
21.	B3 Equipment India (P) Ltd.	..	..	..	350.00	0.00	175.00	175.00		
22.	Waves Electronics Pvt. Ltd.	..	..	..	342.00	0.00	205.00	205.00		
23.	Falcon Infrastructure Ltd.	..	..	..	271.81	0.00	200.00	200.00		
24.	Palakkad Rubber Pvt. Ltd.	..	..	..	514.37	0.00	300.00	300.00		
25.	Diamond Roller Flour Mills Pvt. Ltd.	..	..	..	3,282.00	0.00	1,800.00	1,800.00		
26.	Aceller Steels Pvt. Ltd.	..	..	..	1,800.00	0.00	900.00	900.00		
27.	Smlash Ispat Pvt. Ltd.	..	..	..	560.00	0.00	280.00	280.00		
28.	INKEL - Std design module	..	..	..	3,240.00	300.00	1,500.00	1,800.00		
29.	Cyber prism Ltd. Kochi	..	..	..	150.00	0.00	90.00	90.00		
30.	Crystal Aluminium Products Pvt. Ltd.	..	..	..	550.00	0.00	275.00	275.00		
31.	MIV Logistics	..	..	..	12,000.00	440.00	0.00	440.00		
32.	Islamic banking	..	..	..	..	440.00	0.00	440.00		
33.	Mudakkalil Granite (P) Ltd.	..	..	..	348.00	0.00	260.00	260.00		
34.	Amalgam Speciality Foods India (P) Ltd.	..	..	..	1,650	0.00	750.00	750.00		
35.	Nita Gelatin India Ltd.	..	..	..	1,960.00	0.00	1,175.00	1,175.00		
36.	Moochikunnans Hotel (P) Ltd.	..	..	..	780.00	0.00	390.00	390.00		
37.	D. M. Healthcare (P) Ltd.	..	..	..	50,000.00	0.00	2,000.00	2,000.00		
38.	Manorama Oxygen (P) Ltd.	..	..	..	33.75	0.00	25.00	25.00		
39.	Propyl Packs Ltd.	..	..	..	1,800.00	0.00	105.00	105.00		
40.	Karirali Steels & Alloys (P) Ltd.	..	..	..	2,679.00	0.00	2,000.00	2,000.00		
41.	Silver Castle Holidays & Resorts India (P) Ltd.	..	..	..	1,455.00	0.00	500.00	500.00		
42.	Walayar Steels (P) Ltd.	..	..	..	600.00	0.00	300.00	300.00		
43.	Accurarch Acrylics (P) Ltd.	..	..	..	580.00	0.00	290.00	290.00		
44.	Sahyadri Ferro Steels India (P) Ltd.	..	..	..	1,000.00	0.00	500.00	500.00		
45.	Empee Distilleries Ltd.	..	..	..	514.00	0.00	305.00	305.00		
46.	Empee Holdings Ltd.	..	..	..	316.00	0.00	189.00	189.00		
47.	A P Steel Re rolling Mill (P) Ltd.	..	..	..	368.00	0.00	220.00	220.00		

Sl. No.	Name of Company				Project cost			KSIDC		
								Share	Loan	Total
48	Nilamels & Kaimals Food (P) Ltd.	..	..	..	347.00	0.00	175.00	175.00		
49	Corbel Prelaminated Boards India (P) Ltd.	..	..	..	440.00	0.00	200.0	200.00		
50	Gatway Distripacks Kerala Ltd.	..	..	..	2,730.00	0.00	1,800.00	1,800.00		
51	Greeshmam Resorts Pvt. Ltd.	..	..	..	2,900.00	0.00	1,400.00	1,400.00		
52	KGA Hotels	..	..	..	6,700.00	0.00	300.00	300.00		
53	Calicut Granites Pvt. Ltd.	..	..	..	310.00	0.00	186.00	186.00		
54	Manna Rice industries Pvt. Ltd.	..	..	..	590.00	0.00	260.00	260.00		
55	Vivin Luxury Suits Pvt. Ltd.	..	..	..	1,038.00	0.00	638.00	638.00		
Total					1,84,025.88	2,314.00	32,478.21	34,792.21		

1. The Project completed and commissioned during 2011-12 is Ranni Perinad scheme (4MW)

2. The list of projects under construction is given below :

Hydel Project				Capacity
Peechi	..	..	..	1.25 MW
Pallivasal Extension Scheme	..	..	..	60 MW
Chathankottunada-II	..	..	..	6 MW
Vilangad	..	..	..	7.5 MW
Chimmony	..	..	..	2.5 MW
Perunthenaruvi	..	..	..	6 MW
Barapole	..	..	..	15 MW
Kakkayam	..	..	..	3 MW
Sengulam Augmentation	..	..	..	82 MU
Vellathooval	..	..	..	3.6 MW
Poringalkuthu SHP	..	..	..	24 MW
Thottiyar	..	..	..	40 MW
Adyanpara	..	..	..	3.5 MW
Anakkayam	..	..	..	7.5 MW
Total				179.85 MW

3. Projects proposed to be undertaken is listed below :

Scheme				Capacity
Upper Kallar	..	..	..	2 MW
Olikkal	..	..	..	4.5 MW
Poovaramthodu..	..	..	..	2.7 MW
Chembukadavu - III	..	..	..	6 MW
Ladrum	..	..	..	3.5 MW
Peechad	..	..	..	4 MW
Thumboormuzhy	..	..	..	7 MW
Pazhassi Sagar	..	..	..	15 MW
Western Kallar	..	..	..	5 MW
Marmala	..	..	..	7 MW
Chathankottunada - I	..	..	..	3.5 MW
Thottiyar II	..	..	..	30 MW
Mankulam	..	..	..	40 MW
Peruvannamuzhy	..	..	..	60 MW
Chinnar	..	..	..	24 MW
Upper Sengulam	..	..	..	24 MW
Total				184.2 MW

Proposed Thermal projects

Sl. No.	Scheme				Inst. Cap (MW)
1.	Brahmapuram	..	..	..	1026
2.	Baitarni coat project	..	..	..	1000
Total					2026

Proposed Thermal projects in the state by other agencies

Sl. No.	Scheme				Inst. Cap (MW)
1.	Cheemeni (natural gas based)	..	..	..	1200
2.	RGCCPP Kayamkulam	..	..	..	1950
3.	Petronet LNG	..	..	..	1200
Total					4350

Proposed wind projects in the state by NTPC - 200 MW

Area and production of crops during 2010-11 & 2011-12

Name of Crop	2010-11		2011-12 (provisional)	
	Area in (Ha)	Production (Tonnes)	Area in Ha	Production (Tonnes)
Paddy	..	..	NA	NA
Rice	2131873	522738	208159	548722
Pulses	3824	2908	680	852
Groundnut	1503	1867	1711	2152
Oilseeds	NA	NA	1854	2205
Seasamum	519	228	132	38
Coconut	770473	5287	766632	5775
Green Chillies	1393	1348	NA	NA
Sugarcane	2845	27184	1714	15610
Tobacco	27	48	2628	4672
Cotton	501	731	400	112
Jowar	2208	1128	247	189
Ragi	263	212	240	250

Production of coconut is in million.

2. Railway Kilometrage.

The open line kilometrage as on 31st March 2012

Gauge	Route Kilometrage			Track Kilo- metrage including Sidings Kilo- metrage
	Single Line	Double/ Treble/ quadruple lines	Total	
Southern Railway Broad Gauge	2704.68	1524.59	4229.27	7453.88
Metre Gauge	764.63	0.00	764.63	811.38
Narrow Gauge	0.00	0.00	0.00	0.00
Total	3469.31	1524.59	4993.90	8265.26

3. General Review of working for the year 2010-2011 and 2011-2012 are as follows :—

	2010-11	2011-12
Gross Earnings (in crores of Rupees).	4,790.27	5,608.08
Working Expenses (excl. Suspense) (in crores of Rupees).	4,820.47	5,040.33
Number of passengers carried.. (in millions).	787.91	860.18
Tonnes originating (Revenue) .. (in millions)	35.11	39.40
Tonnes Carried system (in millions).. (Revenue)	61.90	64.21
Freight tonne kms. (System) .. (Revenue) (in millions).	15,748	17,354
Goods Train kms. (in millions)..	11.53	11.84
Train Engine kms. (Goods and prop.) (in millions).	22.67	23.94

4. PLANNING

1.0 During the year, 59 Work Studies were completed. These reports identified 2,270 (Group 'C' & Group 'D') posts as surplus; in some of the areas outsourcing was suggested to rightsize the manpower.

2.0 During the year, 1,326 posts (comprising both Group 'C' and Group 'D') were surrendered/ redeployed against the target of 1,300 posts fixed by Railway Board. This includes 842 posts under surrender and balance was redeployed. The annual financial savings on account of the above surrender resulted in a savings of Rs. 22.38 Crores (approx.) per annum.

On the action for closing the reports, we have shelved the surrender due against the outsourcing, on account of financial implication.

3.0 CORPORATE PLAN – 2011 – 12" & "SALIENT FEATURES – 2011" PUBLICATIONS

A publication titled **Corporate Plan – 2011 – 12** and a Publication titled **"Salient Features 2011"** were brought out by this 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 and Analysis Officer.

This Organisation is collecting, compiling and furnishing accurate and up-to-date data on various facts of Railways. The process of collecting basic data from source points like Booking Offices, Goods Shed, Parcel Offices, Current Booking Centres and Divisional Offices and Compiling the collected data into various statistical parameters and furnishing accurate and updated information useful for various managerial decisions are being carried out in the organization.

It is perused at 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".

Statistical Organisation furnishes the following statistics :—

Commercial Statistics :

Advance Gross Earnings and Traffic handled are reported for every 10-day period.

In 12 Commodity Statement – the tonnes and number of wagons originating details are advised for 12 important commodities.

Under Goods Revenue Statistics in Statistical Statement No. 7A & 7B Goods Earnings, NTKM and No of Tonnes Loaded for a month under Plan Head Commodities are furnished on originating basis. At present checking of RRs are done 'on line'.

Number of Passengers Originating, carried and Passenger KMs. and Passenger Earnings & Rate Per Passenger Per Km. are compiled and advised to Railway Board and other HODs.

Parcel Traffic (Tonnes & Earnings) is advised through statistical statement No. 6B to Railway Board and other HOD's.

Operating Statistics :**Many important Operating Statistics like—**

Monthly Performance Evaluation Report,

Passenger Train Performance (St. No. 1B)

Goods Train Performance (St. No. 2)

Rolling Stock (Loco motive Performance (St. No. 4A)

Rolling Stock (Carriage & Wagon) Performance (St. No. 4B)

Fuel & Power Statistics (St. No. 5A)

Lubricating Oil Statistics (St. No. 5B)

EMU/MEMU/DEMU Train Performance (St. No. 8)

Efficiency indices like NTKM per Engine Hour, Percentage of Train Engine Hours in Total Engine Hours, Engine Kilometres per Engine day in use etc. are compiled and sent to Board 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 are published by Railway Board through the book of Annual Statistical Statements every year and the book is also a 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, assets utilization and to devise marketing strategies for better performance. It is also available in the Railnet Statistical branch web site.

Statistical Branch Web Page :

Under the initiative of Statistics & Analysis Officer and FA & CAO/T all important statements are posted every month in the Web Page including system improvement and Special Studies/Analysis and Inspection notes. This helps the officers to access any details that they require from our branch at any time.

Statistical Inspection :

An inspection cell consisting of Senior Statistical Inspectors undertake periodical statistical test checks at source points like Stations, crew Bookong Centres etc to ensure error free compilation of data. Periodical Inspections of Advance Tri Monthly Statemnt, CTR, Punctuality Statistics etc is carried out by S & AO/MAS. The irregularities during inspection are brought out to the notice of the concerned officers regularly.

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
- e) Analysis of the Shunting Engine Hourly Costs.

The reports were sent to Railway Board to enable preparation of end results booklets, containing the Unit costs of Coaching/Goods services and Profit and loss statements..

Apart from preparation of Annual costing reports, Traffic Costing Cell conducted special studies. They were :

- 1) A Cost study on the running of Heritage train in Chennai.
- 2) A Cost study on the operation of workmen specials in TPJ Division.

Data Processing Centre —

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

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 (OSS)

1. Financial Management System (FMS) runs in two different software applications.

1. FMIS – Financial Management Information System

This is ORACLE based application software used for consolidation of Account current processing at Headquarters level and generation of revenue and capital schedules.

2. AFRES–Advanced Finance and Railway Earnings & Expenditure System.

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

- ❖ **Internal Check**—Establishment Bills and Expenditure bills registration, audit and payment.
- ❖ **Linked with PRIME** for employee payments.—
- ❖ **Suspense**—Establishments 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 & 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. Monthly payment of pension for NPS subscribers.
 - ✦ **PENSION**—Preparation of Pension Payment Orders. Settlement of retirement benefiers, Reconciliation, etc.
- ❖ **Traffic Accounts**—Station 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.

II. General and Workshop Payroll Systems

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 arrears
 - ➔ 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—

ORACLE based application software is being used for :

- ❖ Labour Summary Module
- ❖ WGR Module

III. Freight Accounting System—

ORACLE based application software is being used for :

- ❖ RMC data capturing and processing done in oracle.
- ❖ Data captured 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.

IV. Passenger Accounting System—

This COBOL based application software used for processing the following, for SR :-

- ❖ 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.
- ❖ Migration to ORACLE based system is in advanced stage.

V. Material Management System (MMGT)

This is COBAL based system processed in IT center for Transaction Register Generation and various MIS Reports for Stores/Accounts Department.

Migration to ORACLE based system is an advanced stage.

VI. Operating Statistics System (OSS)

This is ORACLE based software application which caters for automation of Engine Mileage Statistics for generating 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 software and hardware procurement, licensing, etc.
- ❖ Computer learning Centre—
 - In house training for staff from other user 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 2011-12 as compared to those received during 2010-11 are given below:—

Number of complaints

2010-11

2011-12

Sl. No.	Classification	Opening Balance	Received	Disposed	Balance	Received	Disposed	Closing Balance
1.	Behaviour of staff	0	152	148	4	81	80	5
2.	Lack of Amenities/unsatisfactory maintenance of amenities at stations/trains.	17	277	290	4	361	364	1
3.	Late-running of trains	0	119	118	1	78	79	0
4.	Coaching—Reservations and other than reservations.	0	419	416	3	482	476	9
5.	Catering arrangements	0	65	64	1	95	95	1
6.	Miscellaneous/suggestions.	1	415	414	2	414	414	2

4. Number of complaints received, disposed of and pending during 2011-12 as compared to the previous year is as follows:-

Year	Opening Balance	Receipt	Total	Disposed	Pending
2010-2011	18	1447	1465	1450	15
2011-2012	15	1511	1526	1508	18

5. During 2011-2012, a total number of 1,447 complaints other than suggestions were registered as compared to 1,511 complaints in 2010-2011.

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 2011 – March 2012)

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 facets of railway activities, are the basic inputs that keep the public abreast of day-to-day railway working. During the period, 943 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 04 display advertisements, 12 advertisements on social and safety themes and 975 tender notifications 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 from December 2011 to March 2012.
2. All India Industrial, Agricultural, Educational and Cultural Exhibition at Trichur from April 2011 to May 2012.
3. Chamber of Commerce Trade Fair at Madurai from (Dec. 2011—Jan.2012)

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

Details of important events from 1/4/2011 to 31/3/2012

Date	Events
11/06/2011	Inauguration of Computerised Passenger Reservation system at Mannargudi by Shri S. S. Palani Manickam, Hon'ble Union Minister of State for Finance.
30/06/2011	Release of the new Southern Regional Time Table by Shri Deepak Krishan, General Manager.
11/07/2011	Inauguration of Rail Neer Plant at Palur by Shri P. Viswanathan, Hon'ble Member of Parliament.
24/07/2011	Flagging off of Ernakulam – Bangalore Weekly Superfast Express at Ernakulam Junction by Shri K. V. Thomas, Hon'ble Union Minister of State for Food and Civil Supplies.
27/07/2011	Inauguration of Computerised Passenger Reservation System as part of the 1000 PRS scheme of Hon'ble MPs by Shri. G. Senthamizhan, Hon'ble Minister of Information, Law, Courts & Prisons, Government of Tamilnadu and Shri C. Rajendran, Hon'ble MP who granted funds from his quota.
15/08/2011	Heritage Run – A special train hauled by ' EIR 21 ' flagged off by Shri Deepak Krishan, General Manager, from Chennai Egmore to Guindy.
27/09/2011	Inauguration of newly – laid broad gauge line between Nidamangalam – Mannargudi & introduction of the Chennai Egmore – Mannargudi – Chennai Egmore Express trains.
16/11/2011	Flagging off of the inaugural special of Nilambur Road - Thiruvananthapuram Rajya Rani Express by Shri K. H. Muniyappa, Hon'ble Union Minister of State for Railways and Shri E. Ahmed, Hon'ble Union Minister of State for External Affairs & Human Resource Development.
16/11/2011	Inauguration of a new pilgrim complex at Chengannur Railway Station by Shri K. H. Muniyappa, Hon'ble Union Minister of State for Railways and Shri E. Ahmed, Hon'ble Union Minister of State for External Affairs, & Human Resource Development.
17/12/2011	Inauguration of new broad gauge line and flagging off of train services in Karaikkal – Nagore section by Shri K. H. Muniyappa, Hon'ble Union Minister of State for Railways and Shri V. Narayanasamy, Hon'ble Union Minister of State in Prime Minister's office and Hon'ble Union Minister of State for Personnel, Public Grievances and Pension.
03/01/2012	Inauguration of Integrated Unreserved Ticketing System at Gudiyattam Railway station, as part of the 1000 PRS scheme of Hon'ble MPs by Shri Abdul Rahman, Hon'ble MP.
19/01/2012	Commissioning of the newly constructed second line between Kayankulam and Haripad and laying of foundation stone for the second line between Haripad and Ambalapuzha at Haripad Railway station by Shri K. H. Muniyappa, Hon'ble Union Minister of State for Railways and K. C. Venugopal, Hon'ble Union Minister of State for Power and Shri Aryadan Muhammad, Hon'ble Union Minister of Power, Government of Kerala.
26/01/2012	Heritage Run of a special train hauled by ' EIR 21 ' – 157 year old steam engine, world's oldest locomotive, from Chennai Egmore to Guindy.

Date	Events
06/02/2012	Heritage Run of a special train hauled by ' EIR 21 ' from Chennai Central to Perambur.
21/02/2012	Laying foundation stone for Rail Coach Factory, Palakkad by Shri Dinesh Trivedi, Hon'ble Union Minister of Railways, Shri Oommen Chandy, Hon'ble Chief Minister of Kerala, Shri K. H. Miniyappa, Hon'ble Union Minister of State for Railways and Shri Vinay Mittal, Chairman, Railway Board.
18/03/2012	Introduction of new EMU services between Avadi – Chennai Beach, Chennai Beach – Gummidipundi, Gummidipundi – Chennai Central, Chennai Central – Tiruvallur and Tiruvallur – Chennai Central. Flagging off of Chennai Central – Tiruvallur, inaugural EMU special by Shri Saidai S. Duraisamy, Worshipful Mayor of Chennai, Shri N. Balaganga, M. P. and Shri S. Anantharaman, Divisional Railway Manager, Chennai Division.
21/03/2012	Flagging off of the inaugural special of new MEMU services between Katpadi and Salem at Katpadi station by Dr. S. Jaghtrakshakan, Hon'ble Union Minister of State for Information and Broadcasting.
23/03/2012	A trial run of Heritage Steam Loco EIR 21 with a coach in tow, from Chennai Egmore to Guindy.

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 2011-12 one meeting of DRUCC Chennai, Tiruchchirappalli and Madurai were held. Two Meetings each of Palakkad, Thiruvananthapuram and Salem were conducted.

9. Vigilance Organisation

The functions of Vigilance Department includes complaint investigation, Preventive and Educative Vigilance. The Seminars and Workshops were conducted to educate the employees regarding the latest rules in force and are trained to discharge their duties effectively. The preventive checks are conduct to ensure the correct systems and procedure for avoiding revenue leakage. The vigilance department co-ordinates in conducting DAR cases arising out of vigilance/ SPE investigation. Highest priority is given for Presidential & PMO references, CA-iii references, CVC's referred complaints appearing in the media. Source information on alleged 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.

2. Handling of complaints:

Detailed investigations are undertaken in all cases of genuine complaints. During the year 2011 – 2012, 153 complaints were taken up for investigation.

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

2011– 2012			
	Gazetted	Non-gazetted	Total
No. of complaints investigated	38	111	149
No. of major penalty proceedings initiated therefrom:	1	3	4
No. of minor penalty proceedings initiated therefrom	3	36	39

3. Preventive Checks :

The Sensitive areas are identified on the basis of irregularities detected both in home Railway and other Railway, source information, value of transaction and image of Railways. Special efforts are taken in case of Mass Contract 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 2011–2012, 3,430 preventive checks were conducted by the Vigilance Organization. Department-wise breakup of checks done is furnished below:—

	No. of checks
Accounts	13
Civil Engineering	84
Electrical Engineering	26
Mechanical Engineering	61
Medical	16
Personnel	58
Security	111
Signal & Telecommunication.. .. .	26
Stores	32
Commercial/Operating	3003
Others	0
Total	3430

A total of 32 "Departmental Test Checks" were conducted over stations, trains, circulating areas of major stations etc. during the year 2011 – 2012 to curb down the malpractices.

4. Punitive Action taken during the year 2011 – 12

The Inquiry Organization functioning under SDGM & CVO has completed 82 departmental inquiries during the year 2011 – 12 and Inquiry Reports were sent to the concerned disciplinary authorities for necessary DAR action.

Penalty	Gazetted	Non-gazetted	Total
MAJOR	5	89	94
MINOR	22	511	533

5. Earnings accrued to the Railway through vigilance checks during the year 2011 – 12 was ₹.2,00,10,502/-.

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

Sl. No.	Details of earnings	Amount (₹)
1	Earnings from without ticket passengers	4,343
2	Earnings from transferred tickets ..	1,660
3	Earnings from un-booked luggage/parcels	3,744
4	Earnings from undercharges realized ..	1,51,29,098
5	Earnings from higher travel ..	3,890
6	Earnings from excess/shortfall in Govt. cash.	10,918
7	Other traffic recoveries	17,89,647
8	Leave Account / Establishment matter ..	4,840
9	Technical recoveries	25,73,782
10	Amount realized as fine by Court of Law	4,88,580
Total ..		2,00,10,502

6. System Improvements suggested by Vigilance:

1. During the course of preventive check (CTE type inspection), it was noticed that the construction of a hospital building was very much affected due to poor co-ordination among sister department like Engineering, Electrical and their agencies who execute the work. A system improvement was suggested for enacting a combined programme chart by the concerned departments.

In the same building, it was noticed that the bricks were found to be inferior quality. A system improvement was suggested to maintain a register with details for identifying/segregating the rejected materials.

2. During a complaint investigation about selection, the following system improvement is suggested :—

While verifying the answer sheets of various selections, it was noticed that the examiners using different numbering patterns in the question papers. Some examiners use Roman numbering and some others use alphabets. Whereas in the table on the top sheet of answer book in which the marks are to be recorded, Question numbers are printed in Arabic numerals from 1 to 12. To avoid confusion in numbering it is suggested that the question numbers may be left blank in the table on the Top sheet of answer book, so that the evaluator himself can fill the question number and marks.

3. During a preventive check on non-stock indents, the following system improvements are suggested :—

While initiating procurement on newly opened stock headings, confirmation has to be taken from the depot to either dispense with non-stock procurement action or to

exclude the quantities already proposed under non-stock indent.

The date of opening of the heading for stocked items to be provided depot wise in MMIS for the guidance of all concerned.

4. System Improvement has been suggested to streamline the Renewal & Removal of expired Advertisement, duly fixing roles and responsibilities for Dealers and Commercial Inspectors.

5. Based on the preventive check conducted at the Main stores and the Dispensary stores in one of the Health Units in a Division, the following system improvement has been suggested to avoid revenue loss, better estimation and management of pharmacy items, optimum utilization of medicines and to improve inventory control :

'Computerization of the accountal of stores and medicines at field unit level is to be made mandatory with details of batch No. expiry date, quantity for stocking & issuing to patients'.

6. System Improvement has been suggested to curtail unnecessary movement and Travelling Allowance by CTTIs.

7. A check was conducted at an electronic in-motion weighbridge, and it was observed that there was no proper mechanism for the custodian to record the feedback about the realization of punitive charges, against the excess load detected cases in the weighbridge. As a way of ensuring the realization of punitive charges, a system improvement was suggested in which the custodian was advised to open a register to record the cases of excess load detection and the detail of feedback received from the destination point about realization of punitive charges against those cases.

8. System improvement has been suggested for computerization of the accountal of stores and medicines at Health Unit level. It has been advised that it is to be made mandatory with details of batch No., expiry date, quantity, issues to patients which will avoid revenue loss, lead to better estimation and management of pharmacy items, optimum utilization of medicines and to improve inventory control.

9. In spite of many vigilance checks and penalties being imposed being imposed by Mechanical department for storage in supply of bedroll to the passengers travelling in 2 AC/3 AC coaches, the problem of poor quality and insufficient quantity continues to exist on Southern Railway. To streamline the process of supply, accountal, certification of bills and payment, a system improvement has been advised to CCM, CME, FA & CAO/MAS to appoint one Sr. Scale Officer of these departments to look into the issue and formulate JPO. This can then be put upto the respective PHODs/CHODs for approval to be followed by all divisions. Feedback is awaited. The frequently observed irregularities have been highlighted for taking remedial action.

10. Based on some cases of impersonation which have come to notice in Southern Railway in RRB recruitment, it has been suggested to CPO/MAS that the LTI verification of all newly recruited candidates should be done by the Railway FPE within about 45 days of opening of Service Register and salary to be drawn only after confirmation of the verification by Finger Print Examiner to avoid such occurrences in future.

11. Based on an investigation carried out on the allegations of material accepted against counterfeit purchase order, a system improvement was advised to incorporate the details of the cancellation, if any, in the purchase order being generated through depot MMIS.

12. The LOAs of divisions & Construction wings were compared, which it was found that :

*In some division's LOAs, the schedule of Rates is not properly mentioned ;

*The validity required for Price Guarantee is not mentioned in some divisions as well as construction wing ;

*Termination & EMD forfeiture clause has not been mentioned properly ;

*EMD details forwarding to finance are not mentioned properly.

Hence System improvement proposed for standardization of all the above essential topics.

13. System improvement has been suggested to Commercial Department to maintain Failure Register at all locations with ATVM, apart from sending mail to CONSLOE regarding failures and time of restoration. Monthly report has to be sent to UTS/CONSOLE with actual downtime, which will be taken into consideration at the time of renewal of the AMC.

14. During a check conducted in train it was noticed that bedroll supply contract staff was carrying a travel authority which does not contain date of issue, train number and validity period. Further checks revealed that all the duty passes issued to a specific contractor was not having mention about the train number because the contract covered large number of trains. Hence vigilance suggested following system improvement :—

(i) The SSE/C & W/Platform who is in-charge of linen management will issue a work order for each train indicating the train number and date of departure, (including train Nos. in the rake link if any) duly incorporating all the names and ID card numbers of the contract staff reported at the originating station to work on that particular train/rake link.

(ii) In the photo identity card issued by the Contractor, the Depot Officer may certify that " The holder of this card, on possession of a work order issued by SSE/platform, is entitled to board and travel for the purpose of distribution of bedrolls in train number indicated in the said work order ".

15. A check was conducted to verify the remittance of postal order received by RRB, Chennai and since the postal order are remitted without reconciling with the number of application received and the documents in this regard maintained by RRB does not provide any details. Hence it is suggested to incorporate the following details for proper accounting system of remitting postal order :—

(i) The document of remittance of postal order may be maintained Employment Notice-wise.

(ii) The total number of applications received against each employment notice.

(iii) The number of applications rejected due to non-availability of postal orders and due to any other reasons.

(iv) The number of candidate eligible for concession and the amount of concession.

(v) The total number of candidate required to submit the postal order.

(vi) Total amount received through postal order.

(vii) It should also be ensured that the hall tickets should not be issued to the candidates who have not submitted the required postal order.

16. As a measure of ensuring the accountal and disposal of silver attached to copper scrap., it was suggested to accommodate the above scrap in different PL Nos. Instead of accommodating in the PL No. where only copper scrap is accounted.

17. A system improvement on the aspect of timely submission of imprest bill vouchers to associate finance by the executives pertaining to special cash imprest as detailed below has been suggested to all PHOD's.

" For the accountal of special imprest cash, the executive who has drawn the cash shall submit the bill vouchers to the associate finance for the settlement of the imprest cash drawn within 30 days, failing which recovery shall be initiated by associate finance against the executive who has drawn the imprest cash ".

7. Vigilance Awareness Programmes :

1. On 21/4/2011, 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.

2. On 25/4/2011, Shri P. S. Balasubramanian, CVI/E conducted a training programme on ' Vigilance Awareness ' for SEs and JEs in which about 15 staff attended.

3. Seminar for the front-line staff of Commercial department had been organized at MDU on 26/4/2011 & TPJ on 27/4/2011.

4. A seminar for Frontline Staff of Commercial Department of SA Division on ' Vigilance Awareness ' was conducted at CBE on 10/5/11 by Dy. CVO/T/MAS Sr. VO/G/MAS. About 50 staff took part in this seminar.

5. A seminar for Frontline Staff of Commercial Department of PGT Division on ' Vigilance Awareness ' was conducted at CBE on 11/5/11 by Dy. CVO/T/MAS Sr. VO/G/MAS. About 50 staff took part in this seminar.

6. Training session was conducted at SRCETC/TBM on " Vigilance Awareness and GCC & Arbitration " by Dy. CVO/E/MAS for about 30 SE/SSEs of Engineering Department 12/5/11.

7. A training was conducted at STC/SBC on " Vigilance Awareness and Contract Management " on 27/5/2011 by Dy. CVO/Engineering/MAS for Supervisors of all discipline.

8. An awareness programme was conducted at Training Institute/PTJ on 28/5/2011 on contract management for supervisors.

9. A training class was conducted on 10/6/11 for SEs/JEs by Dy. CVO/S at Training Institute/PTJ regarding the role of supervisors.

10. A training class was conducted on 17/6/11 for SEs/JEs of P. Way & Drawing by CVI/Engg. at SRCETC/TBM on ' Vigilance Awareness '.

11. On 6/7/11 a training class was conducted at AVD by CVI/Engg. on " Vigilance Awareness " in which about 15 supervisory officials took part.

12. A Seminar for the front-line staff of Commercial department was conducted on 2/8/2011 at MAS division, for the benefit of Commercial Clerks, ECRs & TTEs.

13. Awareness programmes were conducted at S & T Training Centre/PTJ on 12/8/11 & 26/8/11 for supervisors.

14. On 24/8/11 a training programme was conducted by Dy. CVO/E on "Vigilance Angle " for the trainees at Engineering Training Centre at TBM.

15. A Guest Lecture on the topic of " Methods to detect cyber frauds in Railways " was delivered by Shri K. Venkatesh Murthy, from NASSCOM on 23/9/11 during Railway Board review meeting held at Chennai.

16. As per the directives of Board, in order to include outside agencies who are stakeholders in railways for bringing out more ideas for vigilance management, a Workshop was held involving executives, contractors/associations to deliberate on issues concerning different groups, on 4/11/2011 at Headquarters.

17. A Seminar on " UTS Frauds & Detection " was held on 15/11/2011 for TIAs and AAs to train them in detecting frauds in UTS tickets.

18. Lecture given on vigilance angle to the Trainees of Modular course for SSE/JEs at Training School/S & T/PTJ on 26/11/2011 by CVI/S & T.

19. One day Workshop was conducted for serving SAG officers who are appointed as RIOs on 6/12/2011.

20. Lecture on works tender and stores tender was organized for the benefit of staff dealing tenders in SA Division on 12/1/2012 Shri C. Selvam, Dy. CVO/E with Vigilance Inspectors from Stores & Accounts disciplines delivered lectures.

21. Lecture on ' Overview of work contract ' was organized with case studies at SRCETC on 31/1/2012 by Chief Vigilance Inspector/Engg.

22. A training class was conducted on 10/2/2012 for promotion course from JE to SE/P. Way by Chief Vigilance Inspector/Engg. at Southern Railway Civil Engineering Training Centre/Tambaram.

23. Lecture on 17/2/2012 on ' vigilance angles angles in execution of S & T contract works ' was given by Chief Vigilance Inspector/S & T at S & T Training School/Podanur.

24. A Seminar was organized on 14/3/2012 at HQrs Office/MAS for Vigilance Officers & Inspectors. Shri Venkatesh Moorthy of NASSCOM delivered a lecture on ' Cyber crime on e-tender and e-ticketing system in Railways '. Shri K. Moorthy, Retd. Dy. CEO/HQ also delivered a lecture on ' DAR inquiries ' for vigilance inspectors during the seminar. A total number of 36 participants attended the seminar.

25. A seminar was conducted on 14/3/12 at MAS Division by Smt. Manisha Chatterjee, Dy. CVO/T for CTTIs & Sleeper TTEs to enlighten them of the possibilities of misuse in conversion in the case of e-tickets and Mobile Reservation messages.

26. A training programme was conducted at TVC on 20/3/2012 by Dy. C. Surya Lakshmi, Dy. CVO/A for Supervisors, SOs & OS on 'Vigilance Awareness on Stores'.

27. A seminar on vigilance awareness was conducted in S & T Workshop/Podanur for the officers by Shri Narendra Kumar, Dy. CVO/Electrical on 26/3/12.

8. Vigilance Publications during 2011 - 12

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 2011 to March 2012.

Sl. No.	Dated	Division	Station from-to	Distance	Gauge in Kms.
1	30-09-2011	MAS	CGL-AJJ	62.96	BG
2	14-10-2011	PGT	CAN-MAQ	131.40	BG
3	17-11-2011	TVC	QLN-TVC	64.48	BG
4	09-12-2011	SA	VRI-SA	138.88	BG
5	19-01-2012	MDU	MNM-RMM	113.47	BG
6	14-02-2012	TPJ	VM-MV	121.78	BG

The above details are furnished in connection with GM's Annual report for the year 2011-12.



II. PROGRESS OF HINDI

1. Organisation

A Separate Hindi Organisation is functioning under the direction of Mukhya Rajbhasha Adhikari. He is assisted by Sr. Rajbhasha Adhikari, 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 2011-12 a total of 881 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 2011-12, 240 employees have been trained in Hindi Conversation Course. A help literature on Hindi conversational training was published during June 2011.

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. 4,267 employees have been trained till now in Hindi Keyboard and they are typing out small templates in Hindi. In Southern Railway 2,200 dictations were given in Hindi also by the Officers during the year under review.

Hindi Workshop.—During the year 2011-12, 26 Hindi Workshops were conducted all over S.Rly and 10 Officers and 917 Employees were trained in the workshop.

5. Computerisation in Hindi

There are 3,240 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% (31-3-12) 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 Stores Department, Operating Department and Medical 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 ZOLIC/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, 2,204 inspections on OL aspect has also been included.

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 Hindi**Noting in Hindi**

During the year 2011-12, 10,183 notings were done in hindi out of 29, 743 notings in Hqrs., Divisions & Workshop.

Employees have used Hindi in their routine notings every quarter.

Entries in Registers/Diaries

During the year 2011-12, 23,108 headings/subjects on registers/Diaries were written in bilingual form and entries in 10,658 registers/diaries were made in Hindi-English mixed language. All efforts are taken to make the balance registers/diaries in bilingual form.

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, Headquarters Office and Workshops of this Railway.

16. Seminars in Hindi

Seminars on various subjects in Hindi are conducted periodically by Hqrs., Divisions & Workshops of Southern Railway. During the year under review 10 seminars were conducted.

17. Help Literatures

During the year 2011-12, 10 help literatures in Hindi on various subjects were printed & distributed in Hqrs. Divns. & Workshops of Southern Railway.

18. Hindi Library

To increase the Hindi knowledge of officers and employees, 64 Hindi Libraries are functioning in this Railway. A total number of 111 Hindi Titles were purchased during the year under review for Headquarters. With a view to propagate & utilize the Hindi books, a quiz ' MAHADEVI VARMA ' and Hindi Book utility competition was conducted during the Hindi fortnight celebrations for the year 2011-12.



III. FINANCIAL RESULTS

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Financial Results of Working

Financial Results of working for the year 2011-2012 compared with 2010-11 :—

(Rupees in lakhs)			
Particulars	Actuals 2010-11	Actuals 2011-2012	
1. (a) Capital-at charge	6,80,794	8,00,445	
(b) Investment from Capital Fund	3,43,876	3,56,581	
2. (a) Gross Traffic Earnings ..	4,79,027	5,60,808	
(b) Suspense	483	-1,220	
(c) Gross Traffic Receipts ..	4,79,510	5,59,588	
3. (a) Ordinary Working Expenses..	4,82,047	5,04,032	
(b) Suspense	(-)-2,524	2,236	
(c) Ordinary Working Expenses..	4,79,523	5,06,268	
(Incl. susp.)			
4. Appropriation to D. R. F. ..	45,000	49,005	
5. Appropriation to Pension Fund ..	1,22,262	1,34,395	
6. Payment to worked lines ..	—	—	
7. Total working Expenses ..	6,46,785	6,89,668	
8. Net Traffic Receipts ..	(-)-1,67,275	-1,30,080	
9. Net Miscellaneous Receipts ..	(-)-160	-32	
10. Net Revenue	(-)-1,67,435	-1,30,112	

3. Coaching Earnings

(a) Passenger Earning under important Heads During 2011-2012 compared with 2010-2011 on Central Railway Pattern.

Particulars	Traffic Earnings		Difference		Percentage of Variation	
	2010-2011	2011-2012				
	Number of pass. Earnings (in thousands)	Number of pass. Earnings (in lakhs)	Number of pass. Earnings (in thousands)	Number of pass. Earnings (in lakhs)	Number of pass. Earnings (in thousands)	Number of pass. Earnings (in lakhs)
A. Non-Suburban						
Air-conditioned First Class	260	1,660	319	3,428	59	1,768
Air-conditioned 2-Tier	3,029	9,669	3,498	20,689	469	11,020
Air-conditioned 3-Tier	8,332	19,942	9,310	40,906	978	20,964
A. C. Chair Car ..	2,131	4,600	2,845	10,363	714	5,763
First Class—						
(a) Mail/Express ..	342	1,421	383	2,032	41	611
(b) Ordinary ..	860	244	881	235	21	-9
Total ..	1,202	1,665	1,264	2,267	62	602
Second Class Sleeper—						
(a) Mail/Express ..	50,066	46,718	55,226	63,705	5,160	16,987
(b) Ordinary ..	450	272	469	695	19	423
Second Class Ordinary—						
(a) Mail/Express ..	1,02,412	57,670	1,17,902	71,920	15,490	14,250
(b) Ordinary ..	2,64,142	74,544	2,87,055	30,409	22,913	-44,135
Total Non-Suburban ..	4,32,024	2,16,740	4,77,888	2,44,382	45,864	27,642
B. Suburban						
First Class (Ordinary)	53	23	75	40	22	17
First Class (Season)	8,039	618	9,740	776	1,701	158
Second Class (Ordinary)	1,38,864	10,468	1,49,224	7,850	10,360	-2,618
Second Class (Season)	2,09,422	3,920	2,23,248	3,549	13,826	(-) 371
Total Suburban	3,56,378	15,029	3,82,287	12,215	25,909	- 2,814
Grand Total	7,88,402	2,31,769	8,60,175	2,56,597	71,773	24,828

(Rupees in lakhs)

Particulars	Actuals 2010-2011	Actuals 2011-2012
11. Payment to General Revenues— Subsidy from General Revenue towards Divident Relief and other concessions.	24,439	26,740
12. Surplus/Shortfall ..	(-)-1,91,874	(-)-1,56,852
13. Operating Ratio ..	135.55	122.58
14. Percentage of Net Revenue to Capital-at-charge and Investment from Capital Fund.	(-) 16.35	(-) 11.25

2. Traffic receipts

The details of Revenue Receipts for 2010-11 and 2011-12 :—

(Figures in lakhs of ₹)

Heads of Traffic	2010-11	2011-12	Variation
Passenger ..	2,31,769	2,56,597	24,828
Other Coaching ..	25,771	26,958	1,187
Goods ..	1,95,291	2,23,408	28,117
Sundries ..	26,197	53,845	27,648
Suspense ..	483	(-) 1,220	(-)-1,703
Gross Earnings ..	4,79,511	5,59,588	80,077

(b) Goods earnings under important heads during 2011-2012 compared with 2010-2011 on Central Railway pattern—

Pattern—		Tonnes carried-on System		Earnings	
Sl. No.	Particulars	(in millions)		(₹ in lakhs)	
		2010-2011	2011-2012	2010-2011	2011-2012
A. Revenue Earnings Traffic:—					
1.	Products of Agriculture	8.549	10.447	32,733	41,379
2.	Animals & Products of Animals.	0.000	0	0	0
3.	Products of Mines ..	27.477	25,560	71,176	70,603
4.	Mineral Oil ..	3.812	3,794	14,300	15,800
5.	Products of Forests ..	0.174	0,216	438	566
6.	Manufactures ..	12.430	13,812	42,987	54,064
7.	Miscellaneous ..	9.455	10,378	25,319	31,617
8.	Total Revenue traffic..	61.897	64,207	1,86,953	2,14,029

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 ..	0.394	0.334	0.00	0.00	
(b) For other Govt Rlys., etc.	0.000	0.000	0.00	0.00	
11. Total Non-Revenue ..	0.394	0.344	0.00	0.00	
12. Grand Total Revenue and Non-Revenue	62,291	64,541	1,86,953	2,14,019	

(c) Other Coaching Earnings under important heads during 2011-2012 compared with 2010-2011 on Central Railway Pattern :—

Sl. No.	Particulars	(Figures in lakhs)		
		2010-2011	2011-2012	Variation
1. Special Trains and reserved carriages(Public)		501	919	418
2. Special Trains and reserved carriages(Military)		1,372	1,126	-246
3. Luggage collected at stations ..		557	565	8
4. Luggage collected by special ticket checking staff.		362	331	(-)31
5. Public Parcels ..		13,407	14,872	1,465
6. Transport of Mail ..		2,071	2,095	24
7. Service Parcels ..		0.00	0	0.00
8. Miscellaneous ..		7,510	7,068	-442
Total		25,780	26,976	1,196
Less Refunds ..		9	18	9
Net Other Coaching Earnings		25,771	26,958	1,187
Total Coaching Earnings		2,57,540	2,83,555	2,6015

4. Ordinary Working Expenses

Appropriation Accounts for 2011-2012—Statement showing percentage of Working Expenses to Earnings for the year 2011-2012 :—

Name of the Railway	Percentage of Working Expenses to Earnings
Southern Railway	122.55

I. The Operating ratio of 2011-2012 is 13.00 points less than the Operating ratio of 2010-2010. (135.55%).

(a) The Gross Earnings for 2011-12 is ₹ 5,608.08 crores as against ₹ 4,790.27 crores for 2010-2011 with an increase of ₹ 817.81crores (17.07%).

(b) The Ordinary Working Expenses for 2011-2012 in respect of Grant No. 3 to 13 are more by ₹ 219.85 crores (4.56%).

(c) Appropriation to DRF has increased by ₹ 38.55 crores (8.57%) and Appropriation to Pension Fund has increased by ₹ 121.33 crores (9.92%) during 2011-2012.

(d) The Total Working Expenses for 2011-2012 including Appropriation to DRF and Pension Fund is ₹ 6,872.82 crores (excluding suspense) as against ₹ 6,493.09 crores for 2010-2011 with an increase of ₹ 379.73 crores (5.85%).

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

(a) *Passengers* :—The increase under Passenger Earnings is ₹ 248.28 crores which amount to 10.71% over the previous year. The break-up for the increase is as follows :—

(Figures in crores of ₹)			
Increase in: fares	..	..	4.35
Increase in: traffic	..	..	243.93
Total	..	..	248.28

(b) *Other Coaching*.—The increase under Other Coaching Earnings is ₹ 11.87crores which amounts to 4.60% over the previous year. The details for the increase is as follows :—

(Figures in crores of Rs.)			
(i) Increase in Parcels	..	..	14.59
(ii) Increase in Luggage	..	..	(-)0.22
(iii) Increase Under Military	..	..	1.65
(iv) Increase in Postal Bills	..	..	0.24
(v) Increase in Others	..	..	(-)4.39
Total	..	..	11.87

(c) *Goods Traffic* :—The increase of ₹ 281.17 crores over the last year amounts to 14.40%. This is mainly due to :—

(Figures in crores of ₹)			
(i) Increase in Rates	..	..	72.43
(ii) Increase in Traffic	..	..	196.68
(iii) Increase in Miscellaneous Earnings	..	..	12.06
Total	..	..	281.17

(d) *Sundries* :—The increase of ₹ 276.49 crores over the previous year amounts to 105.55%. This can be mainly attributed to:—

(Figures in crores of ₹)			
(i) Increase under Rent ..	..	..	0.07
(ii) Increase under Demands Recoverable ..	..	..	289.49
(iii) Increase in Catering Earnings ..	..	..	19.47
(iv) Decrease in Others ..	..	..	(-) 32.54
Total	..	..	276.49

III. Working Expenses.—Analysis of variation over 2010-2011.

Increase under Ordinary working Expenses covered by Grants 3 to 12 on Gross basis (Voted) excluding suspense amounts to ₹ 21,096.33 lakhs, which amounts to 4.31% more than that of the previous year. The reasons for the variations are dealt by PU wise :—

(Figures in thousands of ₹)

(1) <i>Salaries and Wages (PU-01)</i> —	
Due to less payment paid in 2011-12	(-) 4,64,761
(2) <i>Dearness Allowance (PU -02)</i> —	
Due to payment of arrears and hike w.e.f. January & July 2011.	13,25,510

(3)	<i>Productivity Linked Bonus (PU -03)—</i>	
	Due to less payment in 2011-12	(-) 8,122
(4)	<i>House Rent Allowance (PU -04)—</i>	
	Due to less Payments in 2011-12	(-) 65,900
(5)	<i>CCA (PU -05)—</i>	
	Due to wrong booking in 2011-12	18
(6)	<i>Transport Allowance (PU -07)—</i>	
	More payments in 2011-12 due to twin DA hikes	44,411
(7)	<i>Wages of Casual Labour (PU -09)</i>	
	nil	0
(8)	<i>Kilometer Allowance (PU -10)</i>	
	Due to introduction of more trains & GTKMs	18,213
(9)	<i>Overtime Allowance (PU -11)</i>	
	Preponing of OTA rates w. e. f. 01.01.2006 and subsequent payment of arrears.	49,260
(10)	<i>Night Duty Allowance (PU -12)—</i>	
	Due to enhancement in rates and payment of arrears.	20,936
(11)	<i>Other Allowance (PU -13)—</i>	
	Due to enhancement in rates due to DA crossing 50 per cent.	56,018
(12)	<i>Fees and Honoraria (PU -14)—</i>	
	Payment of more honorarium for conduct of examination.	9,924
(13)	<i>Transfer Allowance (PU -15)—</i>	
	Trivial	-452
(14)	<i>Travelling Expenses (PU -16)—</i>	
	Due to enhancement in rates due to DA crossing 50%	1,97,348
(15)	<i>Leave encashment during service (PU-20)</i>	57,111
	Due to more applications for the payment	
(16)	<i>Children Education Allowance (PU-25)</i>	54,110
	Due to increase in number of applicants.	
(17)	<i>Contingencies (PU-18 to 24)</i>	23,869
	Due to more payments of water charges as well as & medical contingencies.	
(18)	<i>Drawal from Stores (PU-27)</i>	
	Less to decrease in activities	(-) 27,623
	Track maintenance	
	More drawals of stores for locomotive activities	46,057
	More drawals of stores for wagon, EMU activities	33,313
	More consumption of lubricants	16,896
	More drawal due to fuel consumption	10,67,596
	Less drawal of stores for other activities	-3,516
	Total	11,32,723

(19)	<i>Cost of materials - Direct Purchase (PU-28)</i>	
	Less due to decrease in activities in track maintenance	(-) 18,421
	More purchase of material for Elec. locomotive maintenance	12,098
	More towards linen procurement	39,500
	Due to less expenditure for PMIS	-26,974
	Less towards procurement of coal	-8,785
	More towards procurement of medicines	57,189
	More towards procurement of arms and ammunitions.	4,601
	Due to decrease in other activities	-6,548
	Total	52,660
(20)	<i>Fuel for other than traction (PU-31)</i>	
	More consumption of fuel for generators in Rajdhani, Shatabdi & Duranto Express.	8,930
	Due to increase in other minor activities	479
	Total	9,409
(21)	<i>Contractual Payments (PU-32)</i>	
	Less under Contractual payments	-10,18,150
	More due to contracts for DSL & Elec. locomotives.	45,489
	Less under Contractual payment under AC Coaches.	-33,575
	More towards under Contractual Payments under Elect. S & T and Engg. Departments etc.,	19,929
	More towards Electrical energy other than traction and coach maintenance etc.	1,28,029
	Due to transfer contracts to Demand No. 08	-59,070
	More consumption of Electrical Energy for traction purpose.	4,85,911
	Less under repairs and maintenance of Residential & Welfare buildings.	-25,169
	More due to Catering contracts	87,435
	Due to decrease in other activities	954
	Total	5,48,083
(22)	<i>Transfer of debits/credits from other Units (PU-33)</i>	
	More debits under Permanent Way	64,592
	Less inward debits under Elect locos	-82,261
	Less inward debits for wagons	-3,35,419
	More debits under Mech & S & T departments	25,303
	More credits realised from IRCA & IRFA	-9,27,627
	More Debits towards EE charges for traction	1,78,529
	More Debits towards for street lighting for Quarters and welfare bldgs.	44,071
	Less inward debits towards RPSF	-14,101
	Due due to other activities	-1,463
	Total	-10,48,376
(23)	<i>Adjustment of 'Wages' on POH (PU-34)</i>	
	Increase in activities in repairs of Electrical locomotives.	4,087
	Decrease in activities under repairs of Carriage.	(-) 1,21,752
	Increase in activities in repairs to Plant & equipments.	26,190
	Minor factor	(-) 386
	Total	(-) 91,861

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

Decrease in activities POH repairs of locomotives - DSL & Electrical. (-) 62,541

Increase in POH activities of Carriages & Elec. Gen. Services. 6,41,121

Increase in activities in repairs to Plant & equipments. 3,858

Minor factor 4

Total 5,442

(25) Excise Duty (PU-36)

Less payments of ED (-) 4,14,958

Minor factor (-) 142

Total (-) 4,15,100

(26) Customs Duty (PU-37)

No incidence of expenditure 0

(27) Sales Tax (PU-38)

More payments towards ST 1,23,561

Minor factor (-) 178

Total 1,23,383

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

More incidence of expenditure 633

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

Nil 0

(30) VAT (PU-41)

More tax paid in lieu of Sales tax 6,018

(31) Arrear Payments - Salary & Wages (PU-42)

Introduction of above PU w.e.f. 26.8.2011 42,875

(32) Arrear Payments - Dearness Pay & DA (PU-43)

Introduction of above PU w.e.f. 26.8.2011 2,28,141

(33) Arrear Payments - Allowances other than DA (PU-44)

Introduction of above PU w.e.f. 26.8.2011 46,955

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

Due to more procurement of PC by departments 2,914

(35) Computer Consumables (PU-51)

Due less AMC Contracts -906

(36) Other Expenses (PU-99)

More due to conduct of examination by RRC 3,654

Less due to lesser movements of Ballast trains -36,084

Less credits realised towards wagons 19,048

Less rental charges to P & T -27,837

More due to reimbursement of Medical expenditure & SBF 30,042

More due to transfer of Accident Comp. Claims 1,61,374

from Mar. to Dec. 12 & more towards Cost of

Order police.

Decrease in others -1,050

Total 1,49,147

IV. Percentage of Working expenses to earnings—

(In lakhs of ₹)

	Budget Grant 2011-12	Revised Grant 2011-12	Actuals 2011-12	Actuals 2010-11	Actuals 2009-10
1. (a) Capital-at-charge	7,24,760	8,00,144	7,97,141	6,80,794	5,65,653
2. Investment from Capital Fund	3,84,052	3,56,581	3,56,581	3,56,581	3,21,113
3. Earnings—					
(a) Passenger	2,75,924	2,58,643	2,56,597	2,31,769	2,15,461
(b) Other Coaching	29,134	28,191	26,958	25,771	22,354
(c) Goods	2,19,584	2,19,584	2,23,408	1,895,291	1,88,677
(d) Sundries	24,310	54,661	53,845	26,196	19,198
(e) Total Gross Earnings	5,48,952	5,61,079	5,60,808	4,79,027	4,45,690
(f) Traffic Suspense and demands recoverable.	500	400	-1,220	483	(-) 887
(g) Gross traffic receipts	5,49,452	5,61,479	5,59,588	4,79,510	4,44,803
4. Working Expenses—					
(a) Ordinary working Expenses	5,27,023	5,38,249	5,04,032	4,82,047	4,79,727
(b) Appropriation to DRF	52,600	46,300	48,855	45,000	17,675
(c) Appropriation to Pension Fund.	1,20,581	1,28,213	1,34,395	1,22,262	1,15,270
(d) Suspense	(-) 2,482	(-) 4,249	2,236	-2,524	1,281
(e) Total working Expenses.	6,97,722	7,08,513	6,89,518	6,46,785	6,13,953
5. Net Traffic Receipts 3(g)-4(e)-(-)	1,48,270	(-) 1,47,034	(-) 1,29,930	(-) 1,67,275	(-) 1,69,150
6. (a) Miscellaneous Receipts	236	264	318	215	197
(b) Miscellaneous Payments	403	402	350	375	239
(c) Net Miscellaneous Receipt.	(-) 257	(-) 138	(-) 32	(-) 160	(-) 42
7. Net Revenue 5+6 (c)	(-) 1,48,527	(-) 1,47,172	(-) 1,29,962	(-) 1,67,435	(-) 1,69,192
8. (a) Payment to General Revenue	42,275	36,904	36,829	32,132	35,766
9. Subsidy from G. R. towards dividend relief & other concessions.	11,220	10,076	10,131	7,693	5,838
10. Surplus (+)/Deficit(-) (7-8+9)	(-) 1,79,582	(-) 1,74,000	(-) 1,56,660	(-) 1,91,874	(-) 1,99,140
11. Percentage of working expenses to Gross Earnings	127.55	127.03	122.55	135.55	137.47

Percentage of working expenses to earnings for the year 2011-12.

Comparison of Working Expenses, Appropriation to Funds and Credits realised for 2011-12 with that of 2010-11.

Summary

	(Figures in thousands of ₹)
1. More on working expenses	21,09,633
2. More under DRF	4,00,500
3. More under Pension Fund	12,13,260
4. Less under charged (3 to 12)	1,80,104
5. More credits Realised (3 to 12)	(-) 1,05,481
6. More under PF, Pension & Other	14,373

Total 38,12,389

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

Demand No.	Abstract Particulars	2010-2011	2011-2012
(3)	A General Superintendence and Services	37,79,175	40,02,406
(4)	B Repairs and Maintenance of Permanent Way and Works.	48,76,226	47,97,367
(5)	C Repairs and Maintenance of Motive Power	23,15,384	23,42,330
(6)	D Repairs and Maintenance of Carriage and Wagon.	64,93,580	62,62,584
(7)	E Repairs and Maintenance of Plant and Equipment.	28,50,698	30,13,424
(8)	F Operating Expenses—Rolling Stock & Equipment.	40,61,380	44,39,319
(9)	G Operating Expenses—Traffic..	82,85,869	77,34,701
(10)	H Operating Expenses—Fuel	1,02,54,533	1,17,03,242
(11)	J Staff Welfare and Amenities ..	29,91,425	32,26,937
(12)	K Miscellaneous working expenses	20,08,504	25,78,719
(13)	L Net Provident Fund, Pension and other Retirement Benefits.	2,87,884	3,02,257
	Total	4,82,04,657	5,04,03,287
	Suspense—		
(12) N.	Demands Payable (DR.)	(-) 3,83,820	(-) 3,41,384
(12) N.	Miscellaneous Advances Revenue	(-) 1,31,431	5,64,965

(iii) The particulars of additional investment on the Line Capacity Works and Traffic Facility Works during the year 2011–2012 as compared to the previous year 2010–2011 are furnished below:—

(Net figures in thousands of ₹)

	2010–2011	2011–2012
(1) Capital	79,07,702	51,15,389
(2) D. R. F.	(-) 6,47,785	0
(3) D. F.	1,54,804	2,06,598
(4) Capital Fund	0	0
(5) O. L. W. R.	(-) 203	0
Total	74,14,518	53,21,987

Plan headwise expenditure breakup (Net figures in thousand of ₹)

2010–2011	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

2011–2012	Capital	DRF	DF	Cap. Fund	OLWR	RSF	SRSF	Total
Gauge Conversion	42,80,282	0	0	0	0	0	0	42,80,282
Doubling	7,93,743	0	0	0	0	0	0	7,93,743
Tfc. Facilities	41,364	0	2,06,598	0	0	0	0	2,47,962
Total	51,15,389	0	2,06,598	0	0	0	0	53,21,987

5. Capital

Statement showing the Capital-at-charge at the end of 31st March 2012 compared with 31st March 2011 is as under. The capital-at-charge of this Railway stood at ₹. 800,445 lakhs at the end of 31st March, 2012 as against ₹. 6,80,794 lakhs at the end of 31st March 2011:—

6. Assets and Liabilities —

(a) Profit and Loss Account for the year 2011–2012 compared with 2010–2011

(Figures in thousands of ₹)

Particulars	2010–2011	2011–2012	Particulars	2010–2011	2011–2012
I. To Working Expenses—			(i) By Earnings —		
A-3 General Superintendence & services..	37,79,175	40,02,406	Gross Traffic Receipts	..	..
B-4 Repairs and Maintenance of Permanent Way and Works.	48,76,226	47,97,367	Passenger Earnings.. .. .	..	.. 2,31,76,861
C-5 Repairs and Maintenance of Motive Power	23,15,384	23,42,330	Other Coaching Earnings	..	.. 25,77,111
D-6 Repairs and Maintenance of Carriage and Wagons.	64,93,580	62,62,584	Goods Earnings	..	.. 1,95,29,100
E-7 Repairs and Maintenance of Plant and equipment.	28,50,698	30,13,424	Others	..	.. 26,19,652
F-8 Operating Expenses—Rolling Stock and equipment.	40,61,380	44,39,319	Suspense	..	.. (-) 59,562
G-9 Operating Expenses—Traffic	82,85,869	77,34,701			
H-10 Operating Expenses—Fuel.. .. .	1,02,54,533	1,17,03,242	(ii) Miscellaneous receipts including receipts from Surcharge on Passenger Tickets.	24,438	27,137
J-11. Staff Welfare and Amenities.. .. .	29,91,425	32,26,937			
K-12 Miscellaneous Working Expenses	20,08,504	25,78,719	(iii) Subsidy from General Revenues towards Dividend.	7,69,276	10,17,223
N-12.Suspense	(-) 2,52,389	2,23,581			
L-13. Provident Fund, Pension and other Retirement Benefits.	2,87,884	3,02,257	(iv) Gross Loss.. .. .	..	.. 1,65,50,466
Appropriation to D. R. F.	45,00,000	49,00,500			
Appropriation to Pension Fund	1,22,26,211	1,34,38,471			
II. Payment to Worked Lines.					
III. Miscellaneous Expenditure—					
Survey	5,670	6,515			
Open line works (Revenue)	31,833	28,499			
Audit	1,26,284	1,33,445			
Government Inspection	0	0			
Cost of Railway Board	2,76,015	2,56,386			
Railway Recruitment Board	69,060	38,425			
Miscellaneous charges	0	0			
Total	6,51,87,342	6,94,30,108			
To Gross Loss	1,65,50,466	1,21,83,002			
Payment to Dividend to General Revenue	32,13,189	36,91,208	Total	6,51,87,342	6,94,30,108
Grand Total	1,97,63,655	1,58,74,211	Net Loss	1,97,63,655	1,58,74,211

(b) Statement of Assets and Liabilities as on 31st March 2012, 2011 & 2010 in the form of Block Account—

Liabilities	As on 31st March			Assets As on 31st March	(Figures in lakhs of ₹)		
	2010	2011	2012		2010	2011	2012
I. (a) Investment Financed from—							
(i) Loan Capital Advance by General Exchequer.	5,65,653	6,80,794	8,00,445	1. Cash in Hand ..	9,253	9,924	10,235
(ii) Depreciation Reserve Fund	3,20,254	3,54,285	3,73,170	2. Block Account (Contra item 1)	14,87,120	16,84,630	18,51,926
(iii) Development Fund	1,31,646	1,44,355	1,57,851	3. Funds with Central Government (Contra item 2 & 3)	(-) 6,37,155	(-) 6,95,323	-7,47,725
(iv) Capital Fund	3,33,818	3,56,581	3,56,581	4. Miscellaneous Advance—Sundry Debtors (to be recovered or adjusted).	23,060	23,611	28,908
(v) Open Line Works Revenue	8,932	9,219	9,496	5. Traffic Earnings (yet to be realised at the end of the year).	2,964	2,788	3,821
(vi) Railway Safety Fund	34,481	47,060	62,047	6. Items awaited adjustment with Civil Department, State Government, etc.	254	252	267
(vii) Special Railway Safety Fund	92,328	92,328	92,328				
(b) Machinery and Equipment free of cost.	8	8	8				
	14,87,120	16,84,630	18,51,926				
2. Railway Reserve Fund—							
(i) Depreciation Reserve Fund	1,57,130	1,82,272	2,10,091				
(ii) Railway Revenue Reserve Fund	0	0	0				
(iii) Development Fund	(-) 1,36,226	(-) 1,50,094	(-) 1,63,867				
(iv) Capital Fund	(-) 3,21,113	(-) 3,43,876	(-) 3,43,876				
(v) Pension Fund	(-) 3,85,500	(-) 4,45,225	(-) 5,13,625				
(vi) Railway Safety Fund	(-) 33,887	(-) 46,569	(-) 61,556				
(vii) Special Railway Safety Fund	(-) 43,732	(-) 43,732	(-) 43,732				
	(-) 7,63,328	(-) 8,47,224	(-) 9,16,565				
3. Bank Account (Sundry Creditors)—							
(i) Provident Fund and other funds	78,433	87,579	94,679				
(ii) Miscellaneous Deposits	47,740	64,322	74,161				
	1,26,173	1,51,901	1,68,840				
4. Demands Payable (i. e.) liabilities remaining undischarged at the end.	17,347	21,185	24,599				
5. Net Liabilities arising out of inter-departmental transactions.	18,184	15,390	18,632				
Total ..	8,85,496	10,25,882	11,47,432	Total ..	8,85,496	10,25,882	11,47,432

7. Statement of Capital Assets (Revised)

(Figures in thousands of ₹)

	Capital at charge as on 31st March 2011	Capital at charge as on 31st March 2012
11. New Line Construction ..	1,29,03,290	1,55,30,404
12. Purchase of New line ..	1,31,779	1,31,779
13. Restoration of dismantled line	(-) 89	(-) 89
14. Gauge conversion ..	2,49,38,305	2,92,18,587
15. Doubling ..	1,44,31,881	1,52,25,624
16. Traffic facilities & Yard remodelling	14,44,103	14,85,467
17. Computerisation ..	6,510	6,310
21. Rolling Stock ..	98,69,600	1,06,69,629
22. Leased Assets..	0	27,40,500
30. 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	1,21,189	1,21,130
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 ..	1,93,495	1,99,737
41. Machinery and Plant ..	2,45,031	2,55,693
42. Workshop including production units	16,99,203	18,23,259
51. Staff Quarters..	5,59,580	5,58,774
52. Amenity for Staff ..	64,830	64,985
53. (i) Passenger Amenities	5,042	5,181
(ii) Other Railway users' Amenities.	(-) 100	(-) 100
62. Investment in Government/Commercial undertaking Public services.	0	0
64. Other specified works ..	83,890	2,06,965
71. Suspense ..	7,51,693	12,18,314
Deduct Receipt on Capital Account	9,81,677	10,31,676
Total Capital at charge	6,80,79,419	8,00,44,537

8. The "Revised" Position of the funds maintained by the Southern Railway for 2011-2012 is indicated below—

(Figures in thousands of ₹)

Nature of Fund Accounts	Opening balance as on 1st April 2011	Appropriation during the year 2011-2012 including interest and transfers without financial adjustment	Withdrawal from the fund Actual Expenditure	Balance as on 31st March 2012
1. Depreciation Reserve Fund.	1,82,27,216	53,58,971	30,77,043	2,10,09,144
2. Pension Fund	(-) 4,45,22,537	1,11,05,096	1,79,45,095	(-) 5,13,62,536

9. The sources of funds from which expenditure on works met during the year 2010-2011 and 2011-2012.

(Figures are Net and in thousands of Rupees)

	2010-2011	2011-2012
1. Capital (including Transfers without Financial Adjustment)	1,15,14,098	1,19,65,118
2. Depreciation Reserve Fund ..	28,14,608	30,77,043
3. Development Fund * ..	13,86,804	13,77,286
4. Railway Safety Fund ..	12,68,263	14,98,679
5. Special Railway Safety Fund ..	0	0
6. Open Line Works—Revenue ..	31,833	28,499
7. Capital Fund ..	22,76,300	0
Total ..	1,92,91,906	1,79,46,624
* Inclusive of Expenditure towards—		
(i) Safety Works D.F. IV ..	1,45,006	1,63,929
(ii) Passenger Amenities Works ..	6,19,019	5,97,437

Statement showing the expenditure—Plan head-wise for the year 2011-2012—(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	Gross	-	29,41,803	-	-	-	-	-	-	-	-	-	-	-	29,41,803	-
(31)	Credit	-	-	13,43,897	-	-	-	-	-	-	-	-	-	-	-	13,43,897	-
	Net	-	-	15,97,906	-	-	-	-	-	-	-	-	-	-	-	15,97,906	-
13.	Bridge Works	Gross	-	1,28,534	- (-) 5,447	-	-	-	-	-	-	-	-	-	-	1,23,087	-
(32)	Credit	-	-	1,634	-	-	-	-	-	-	-	-	-	-	-	1,634	-
	Net	-	-	1,26,900	- (-) 5,447	-	-	-	-	-	-	-	-	-	-	1,21,453	-
14.	Signalling and	Gross	-59	2,22,337	736 2,23,785	-	-	-	-	-	-	-	-	-	-	4,46,063	736
Tele-communication	Credit	-	-	22,295	0	-	-	-	-	-	-	-	-	-	-	25,895	-
(33)	Net	-59	-	2,00,042	736 2,20,185	-	-	-	-	-	-	-	-	-	-	4,20,168	736
15.	Taking of lines	Gross..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
from P. & T.	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(34)	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16.	Electrification	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Project.	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(35)	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17.	Other Electrical	Gross	6,242	-	77,278	-	67,248	-	-	-	-	-	2,565	-	1,53,333	-	-
Works.	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(36)	Net	6,242	-	77,278	-	67,248	-	-	-	-	-	-	2,565	-	1,53,333	-	-
18.	Machinery & Plant	Gross	10,662	-	1,63,851	-	11,254	-	-	-	-	-	14,412	-	2,00,179	-	-
(41)	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	10,662	-	1,63,851	-	11,254	-	-	-	-	-	-	14,412	-	2,00,179	-	-
19.	Workshops	Gross	1,21,291	2,765	24,104	-	1,87,970	-	-	-	-	-	1,425	-	3,33,640	2,765	-
(42)	Credit	491	-	1,873	-	619	-	-	-	-	-	-	-	-	2,085	-	-
	Net	1,21,782	2,765	22,231	-	1,87,351	-	-	-	-	-	-	1,425	-	3,31,555	2,765	-
20.	Staff Quarters	Gross	-806	-	1,28,804	-	-	-	-	-	-	-	-	-	1,27,998	-	-
(51)	Credit	-	-	250	-	-	-	-	-	-	-	-	-	-	250	-	-
	Net	-806	-	1,28,554	-	-	-	-	-	-	-	-	-	-	1,27,748	-	-
21.	Amenities for Staff	Gross	155	-	43,106	-	87,445	-	-	-	-	-	310	-	1,31,016	-	-
(52)	Credit	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	155	-	43,106	-	87,445	-	-	-	-	-	-	310	-	1,31,016	-	-
22.	(i) Passenger	Gross	-	139	1,34,676	-	4,62,037	742	-	-	-	-	-	-	5,96,713	881	-
Amenities.	Credit	-	-	155	-	2	-	-	-	-	-	-	-	-	157	-	-
(53)	Net	-	139	1,34,521	-	4,62,035	742	-	-	-	-	-	-	-	5,96,556	881	-
23.	(ii) Other Railway	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Users Amenities	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(53)	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24.	Investment in	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Govt. commercial	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
under taking public	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
under takings.		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(62)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25.	Other specified	Gross	1,24,973	103	6,617	-	79,502	1,581	-	-	-	-	2,000	-	2,13,092	1,684	-
Works.	Credit	-	-	-	-	-	0	-	-	-	-	-	-	-	-	-	-
(64)	Net	1,24,973	103	6,617	-	79,502	1,581	-	-	-	-	-	2,000	-	2,13,092	1,684	-
26.	Stores Suspense	Gross	1,16,47,089	-	-	-	-	-	-	-	-	-	-	-	1,16,47,089	-	-
	Credit	1,11,18,520	-	-	-	-	-	-	-	-	-	-	-	-	1,11,18,520	-	-
	Net	5,28,569	-	-	-	-	-	-	-	-	-	-	-	-	5,28,569	-	-
27.	Manufacture	Gross	68,79,768	-	-	-	-	-	-	-	-	-	-	-	68,79,768	-	-
Suspense	Credit	69,42,077	-	-	-	-	-	-	-	-	-	-	-	-	69,42,077	-	-
	Net	-62,309	-	-	-	-	-	-	-	-	-	-	-	-	(-)-62,309	-	-
28.	Miscellaneous	Gross	1,945	-	-	-	-	-	-	-	-	-	-	-	1,945	-	-
Advance	Credit	1,584	-	-	-	-	-	-	-	-	-	-	-	-	1,584	-	-
	Net	361	-	-	-	-	-	-	-	-	-	-	-	-	361	-	-
29.	Grand Total	Gross	2,97,64,715	3,13,452	56,49,595	736	13,80,252	2,407	-	15,00,228	-	-	28,583	-	3,83,23,373	3,16,595	-
	Credit	1,81,12,181	-	25,73,288	-	5,373	-	-	-	1,550	-	-	84	-	2,08,92,476	-	-
	Net	1,16,52,534	3,13,452	30,76,307	736	13,74,879	2,407	-	-	14,98,678	-	-	28,499	-	1,76,30,897	3,16,595	-

Statement showing the break-up of expenditure under the plan head "Rolling Stock" for the year 2011-2012.

21. Rolling Stock—

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
Sl. No.	Plan Head	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
		Capital		DRF		DF	Capital Fund	RSF	SRSF					OLWR		Total	

(Figures in thousands of £)

[illegible]

Statement showing the break-up of Expenditure under the Plan Head "Machinery and Plant" for the year 2011-2012.

(Figures in thousands of £.)

[illegible]

MACHINERY AND PLANT

[illegible]

Statement showing the break-up of Expenditure under the Plan Head "Machinery and Plant" for the year 2011-2012—(Concl.)

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 Net	-	-	2,058	-	-	-	-	-	-	-	-	-	-	-	2,058	-
		-	-	2,058	-	-	-	-	-	-	-	-	-	-	-	2,058	-
(vii) Medical	Gross Credit Net	-	-	20,607	-	7,995	-	-	-	-	-	-	-	-	-	28,605	-
		-	-	20,607	-	7,995	-	-	-	-	-	-	-	-	-	28,605	-
(viii) Security	Gross Credit Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ix) Operating	Gross Credit Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(x) General	Gross Credit Net	4,029	-	5,512	-	-	-	-	-	-	-	-	-	1,111	-	10,652	-
		4,029	-	5,512	-	-	-	-	-	-	-	-	-	1,111	-	10,652	-
Total Machinery and Plant	Gross Credit Net	10,662	-	1,63,851	-	11,254	-	-	-	-	-	-	-	14,412	-	2,00,179	-
		10,662	-	1,63,851	-	11,254	-	-	-	-	-	-	-	14,412	-	2,00,179	-

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

(Figures in lakhs of ₹)

Sl. No.	Particulars	2009-10	2010-11	2011-12	Sl. No.	Particulars	2009-10	2010-11	2011-12
1. Expenditure actually booked	..	99,738.42	95,856.71	94,602.40	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.		11,947.28	-56,71.52	-3,639.73	(i) Expenditure on Locomotives Workshop Repairs.		3,330.41	4,326.63	3,247.33
3. Locomotives :					(ii) Proportionate amount of extraneous factors.	..	398.94	-255.99	-124.94
I. Steam—					(iii) Debits raised by CLW/CRJ, DLW, etc.	..		420.63	101.10
(i) Expenditure on Locomotives Workshop Repairs.		175.40	140.42	155.36	(iv) Comparable expenditure item (i) Minus item (ii) Minus (iii).		2,931.47	4,161.99	3,271.17
(ii) Proportionate amount of extraneous factors.		21.01	-8.31	-5.98	(v) Index of comparable expenditure (Per cent).		100.00	141.98	111.59
(iii) Debits raised by South Central Railway for work done.		154.39	148.73	161.34	(vi) (a) Performance measured in terms of standard 1st Class or units repaired—				
(iv) Comparable expenditure (Item [(i) minus item (ii) minus (iii)]).		100.00	96.33	104.50	Broad Gauge	..	41.00	56.00	44.00
(v) Index of Comparable expenditure (per cent).	..	..	..	..	Metre Gauge	..	1.00	2.00	0.00
(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	..	0.00	0.00	1.00	Broad Gauge	..	0.32	0.41	0.31
Narrow Gauge	..	..	..	..	Metre Gauge	..	0.67	1.61	0.00
(b) Performance measured per million equated engine kilometres—					Narrow Gauge	..	..	..	..
Broad Gauge	..	..	..	..	III. Electrical—				
Metre Gauge	..	60.00	0.00	22.22	(i) Expenditure on Locomotives workshop Repairs.		7,338.52	6,914.51	6,771.43
Narrow Gauge	..	..	..	..	(ii) Proportionate amount of extraneous factors.		879.05	-409.11	-260.52
					(iii) Debits raised by South Central Railway for work done.	..	..	..	..
					(iv) Comparable expenditure item (i) Minus item (ii) Minus (iii).		6,459.47	7,323.62	7,031.95

Sl. No.	Particulars	2009-10	2010-11	2011-12
(v)	Index of comparable expenditure (Per cent).	100.00	113.38	108.86
(vi)(a)	Performance measured in terms of standard 1st Class or units repaired—			
	Broad Gauge	298.22	320.04	354.27
	Metre Gauge	..	..	..
	Narrow Gauge	..	..	..
(b)	Performance measured per million equated engine kilometres—			
	Broad Gauge	1.77	1.80	1.80
	Metre Gauge	..	..	..
	Narrow Gauge	..	..	..
(c)	Performance measured per million Gross tonne kilometres—			
	Broad Gauge	0.006	0.007	0.007
	Metre Gauge	0.000	#DIV/0!	0.000
	Narrow Gauge	..	..	..

IV. Carriages—

(i)	Expenditure on Carriage Workshop Repairs.	25,029.86	23,253.05	22,567.67
(ii)	Proportionate amount of extraneous factors.	2,998.23	-1,375.80	-868.27
(iii)	Comparable expenditure [(Item (i) minus Item (ii) minus (iii).]	22,031.63	24,628.85	23,435.94
(iv)	Index of Comparable expenditure (Per cent)	100.00	111.79	106.37
(v)	(a) Performance measured in terms of number repaired.			
	(1) Passenger Carriages (in terms of four-wheelers)			
	Broad Gauge	4,134.00	3,934.00	2,949.00
	Metre Gauge	74.00	48.00	8.00
	Narrow Gauge	..	..	..
	(2) Other Coaching Vehicles			
	Broad Gauge	185.00	212.00	205.00
	Metre Gauge	0.00	4.00	0.00
	Narrow Gauge	..	..	..
	(3) Performance of passenger carriage measured per million passenger train kilometres—			
	Broad Gauge	100.63	89.89	64.55
	Metre Gauge	116.90	93.39	20.00
	Narrow Gauge	..	..	..
	(4) Performance of other coaching vehicles measured per million vehicle kilometres—			
	Broad Gauge	1.46	1.50	1.35
	Metre Gauge	0.00	#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	98.82	75.92

V. Wagons—

(i)	Expenditure on Wagon work - shop Repairs.	6,992.71	7,209.72	3,743.28
(ii)	Proportionate amount of extraneous factors.	837.63	-426.57	-144.02
(iii)	Debits raised by other Railways for POH of S. Rly. Wagons.	..	6,230.00	3,110.00

Sl. No.	Particulars	2009-10	2010-11	2011-12
(iv)	Comparable expenditure (Item (i) Minus item (ii) Minus (iii)).	6,155.08	1,406.29	777.30
(v)	Index of comparable expenditure (Per cent).	100.00	22.85	12.63
(vi)	(a) Performance measured in terms of number repaired			
	Broad Gauge	347.00	180.00	130.00
	Metre Gauge	0.00	0.00	0.00
	Narrow Gauge	..	..	..
	(b) Performance measured per million wagon Kms. (in terms of four wheelers)—			
	Broad Gauge	0.64	0.33	0.23**
	Metre Gauge	0.00	0.00	0.00
	Narrow Gauge	..	..	..
	(c) Performance measured per million net tonne kilometres—			
	Broad Gauge	0.021	0.011	0.007
	Metre Gauge	0.000	0.000	0.000
(vi)	Weighted index of performance (weightage given on the basis of unit cost of repairs for the different gauge) (Per cent).	191.20	53.55	44.98
(vii)	Expenditure on other than loco carriage and wagon workshop repairs as booked.	56,871.52	54,012.38	58,117.33
(viii)	Proportionate amount of element of extraneous factors.	6,812.42	-3,195.73	-2,236.00
(ix)	Comparable expenditure (Item VII—Item VIII)	50,059.10	57,208.11	60,353.33
(x)	Index of comparable expenditure (Per cent).	152.98	114.28	120.56
(xi)	Gross tonne kilometres (All traction goods and proportionate of mixed plus passenger EMU and Rail Cars) (in millions).	82,526	85,930	89,263
(xii)	Index of Performance	100.00	104.12	108.16

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

(Figures in lakhs of ₹)

Particulars	Actuals 2009-10	Actuals 2010-2011	Actuals 2011-2012
1. Gross expenditure under Grant No. 8.	42,583.84	41,719.49	45,648.91
2. Extraneous items to be excluded.—			
(a) Expenditure on Electrical services.	7,550.76	8,015.17	8,874.61
(b) Effect of Additional D. A. & I. R.	0.00	-2,590.49	-4,060.32
(c) Effect of PLB	0.00	-56.44	-42.27
(d) Increase in Cost of Stores	0.00	-481.83	-312.87
Total Item II	7,550.76	10,067.39	12,579.79
3. Comparable expenditure (Item 1 minus Item II).	35,033.08	31,652.10	33,069.12
4. Index of comparable -expenditure (Per cent)	100.00	90.35	94.39
5. Performance measured in terms of Train kilometres.	64,900.00	67,351.00	69,690.00
6. Index of performance (per cent)	100.00	103.78	107.38

Grant No. 9—Operating Expenses—Traffic—

(Figures in lakhs of ₹)

Particulars	Actuals 2009-10	Actuals 2010-2011	Actuals 2011-2012
1. Gross expenditure under Grant No. 9.	83,906.19	82,930.41	77,393.86
2. Extraneous items to be excluded.—			
(a) Effect of Additional D.A.&I.R.	0.00	-6,353.92	9,878.07
(b) Effect of PLB	0.00	-96.48	-63.14
(c) Effect of IRCA & IRFC transaction			
I. R. C. A.	0.00	3,704.15	-8,647.49
I. R. F. C.	0.00	3,030.00	7,744.00
Total Item II ..	0.00	12,991.59	8,911.44
3. Comparable expenditure (Item I, minus Item II)	83,906.19	69,938.82	68,482.42
4. Index of comparable —expenditure (Per cent).	100.00	83.35	81.62
5. Performance measured in terms of Train kilometres	64,900.00	67,351.00	69,690.00
6. Index of performance (Per cent).	100.00	103.78	107.38

Grant No. 10—Operating Expenses—Fuel

(Figures in lakhs of ₹)

Particulars	2009-10	2010-11	2011-12
I. Gross expenditure under Grant No.10—Operating Expenses—Fuel.	93,828.23	1,02,932.91	1,17,295.22
II. Extraneous factors contributing to increase/decrease in Gross expenditure —			
(1) Increase in rates of D. A. and I. R.	..	-42.72	-48.37
(2) Annual scale increase, Operating of posts and	..	-73.83	-78.56
(3) Increase in other allowances restructuring of cadre.	..	3.36	127.78

(Figures in lakhs of ₹)

Particulars	2009-10	2010-2011	2011-2012
(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.	..	-38.27	-528.92
(7) Increase in prime cost of Coal.	..	86.85	9.14
(8) Increase in prime cost of Diesel.	..	-2,537.94	9,782.80
(9) Increase in average cess and sales tax on coal (due to revision of cess rate).	..	26.49	14.08
(10) Increase in average cess and Sales tax on H. S. D. oil (due to change of supply point).	..	3,019.67	-1,174.08
(11) Revision of Electricity charges including penal levy.	..	628.82	4,849.98
(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	..	6,233.76	12,953.85
III. Comparable Expenditure (Item I—Item II).	93,828.23	96,699.15	1,04,341.37
IV. Index of Comparable expenditure.	100.00	103.06	111.20
V. Performance measured in terms of Gross Tonne Kilometer of all tractions (in Millions).	82,526	85,930	89,263
VI. Index of Performance	100.00	104.12	108.16



IV. NEW CONSTRUCTION AND ENGINEERING WORKS

New Lines Opened

Sl. No.	Divn.	Name of Work	Cost ₹ in crores	Remarks
a) New lines opened during the year 2010–2011				
1.	MAS	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	Nil		
5.	TPJ	Nil		
6.	MDU	Nil		
7.	CN/MS	Nil		
8.	CN/ERS	New line under doubling- (KYJ-MVLK section).	4846.00	
9.	MTP	MRTS Phase II Tirumailai to Velachery	87588.00	The cost is shared by Railways and Govt. of Tamil Nadu in the ratio of 33.67 i.e. Rs. 28894.14 lakhs by Railways and Rs. 58663.86 lakhs by Govt. of Tamil Nadu.
				Section from Thirumailai to Thiruvanniyur (up line) opened for passenger traffic on 26.1.2004, section beyond Thiruvanniyur upto Velachery (up line) and Thirumailai to Velachery (Down line) opened for passenger traffic on 19.11.2007.

2. New Lines Under Construction

Sl. No.	Division	Name of Works	Cost ₹ in crores	% of over all progress as on 2011–12	Remarks
1.	MAS	Nil			
2.	SA	Nil			
3.	PGT	Nil			
4.	TVC	Nil			
5.	TPJ	Nil			
6.	MDU	Nil			
		1. MRTS Phase II Thirumailai to Velacherry **	875.58	98.90%	Section from Thirumailai to Tiruvanniyur (up line) opened for passenger traffic on 26/01/04. Section beyond Tiruvanniyur upto Velachery (up line) and Tirumailai to Velachery (Down line) opened for Passenger traffic on 19/11/2007. Approach road works and station buildings finishing works are in progress.
7.	MTP	2. Extension of MRTS Phase II from Velacherry St.Thomas Mount. *	495.74	32.30%	New work sanctioned in 2006-07. Physical work commenced in 2008-09.

** The cost is shared by Railways by Govt. of TN in the ratio of 33.67 i.e. ₹ 28894.14 lakhs by Railways and ₹ 58,663.86 lakhs by Govt. of Tamil Nadu.

* Cost of the work is shared by Railways and Govt. of Tamil Nadu in the ratio 1.2 i.e. ₹ 16524.67 lakhs by Railways and ₹ 33,049.33 by Govt. of Tamil Nadu.

8.	CE/CN/MS	Tirunnavaya-Guruvayur New line (35 kms).	137.71	0%	After objection from locals and High Court, the alignment of Tirunavaya to Guruvayur (35 kms) was approved by the Kerala State Government only in April'09, after a delay of 14 years. For the first 8 kms, alignment finalised and land requirement furnished to the Kerala Government. Part estimate for Guruvayur to Kunnamkulam has been sanctioned by GM vide letter No.0005 of 08.04.2011 for ₹ 62.216 cr. 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
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Sl. No.	Division	Name of Works	Cost ₹ in crores	% of over all progress as on 2011-12	Remarks
New Lines Under Construction—Contd.					
					alignment issues was postponed. ₹ 10 cr. is to be deposited for land acquisition for which funds are awaited. A joint survey of the proposed alignment in Malappuram District was in progress. The survey is again stopped due to public protest.
2.	Karur-Salem New line (85 KMS.)		712.00	90%	Estimate for ₹ 229.88 crores sanctioned by Board. Revised estimate for ₹ 690.00 crore under vetting and will be submitted shortly. All pending court cases regarding land acquisition were disposed & Rlys. have taken physical possession of required land except at a few locations of ROBs. Extra compensation court cases - out of 1300 cases, 240 cases finalised and the balance are pending in various courts. AT some locations, completion of ROBs is held up for want of land. Section is ready for commissioning. It is proposed to commission the whole Karur - Salem new lines section by July 2012. For the doubling work sanctioned for Omalur - Mettur Dam section part-detailed estimate is under preparation. For Salem - Omalur section doubling has been dropped from the Pink Book recently. FLS works are held up in this important doubling. Salem - Omalur section heads to be included in the Pink Book. (i) Work completed and engine rolled from 28/3/2011 to 31/3/2011. (ii) Cutting drainage works & ROB/RUB works are in progress. ROB works got delayed due to delay in land acquisition in 18 places. (iii) Bridge protection work, provision of trolley refuges are in progress and to be completed. (iv) Removal of loose boulders from the cuttings and over burden on top of the cutting is to be completed.
3.	Angamali-Sabarimala		1214.00	3%	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 Azhutta vide Board's letter No.W.93/W1/Survey/SR II dated 7/1/2004. Final location survey was completed upto Azhutta. Working plan and section approved. Railway Board had sanctioned the part detailed estimate for ₹ 517.70 crores (for major heads) vide Board letter No.93/W1/Survey/SR/11 dated 17/5/2006. 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. Another 9.22 Hec. Of land is required up to Kaladi.

Sl. No.	Name of Work	Cost ₹ in crores	% of over all progress as on 2011-12	Remarks
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New Lines Under Construction—Contd..

3. Railways have already deposited the full provision for land of ₹ 58 crore to Government of Kerala, but the same has been consumed for the land between Angamali & Kaladi for 9.22 Hec. only and another ₹ 32 crore is required for land up to Kaladi only.

4. After getting adequate land from the State Government, further tenders will be called.

5. At present, works at a cost of ₹ 5.00 crores for Earthwork and Minor bridges for a short stretch of about 5 km from Angamali, are in progress and are nearing completion. Work has been awarded for one Major bridge on 26.05.2010 and is in progress.

6. The State Government has also been requested to decide 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, but no decision is received.

7. In the mean time, the Environment Ministry of Central Government also stepped in and took a stand against the execution of the project.

8. Local people & Hon'ble MPs raised issue of alignment of the line in Kottayam District & a meeting of the concerned peoples' representatives was convened by Hon'ble Chief Minister for Kerala on 27/11/2010 to sort out the alignment issues. 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. In the meeting between Hon'ble Chief Minister and GM/Southern Railway on 24/6/2011, the issue of alignment dispute in Kottayam District was referred to. During the next meeting on 14/7/2011, District Collector was entrusted with finalisation of the alignment.

9. Detailed estimate for ₹ 1214 crore has been prepared and sent to Railway Board in September 2010. Board asked for recasting again in view of increased land cost and a recast estimate of ₹ 1566 cr. has been sent to Board vide this office letter No.W.193/1/CN/ERS/AFK-Sabari dated 11/11/2011. Further progress in land acquisition can be made only after sanction of this detailed estimate.

10. 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 dated 13/12/2010 and again remained. State Government has advising in the negative.

Sl. No.	Division	Name of Works	Cost ₹ in crores	% of over all progress as on 2011-12	Remarks
New Lines Under Construction—Contd.					11. 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. 12. Presently, taking over of land could not be done as the revised estimate has not yet been sanctioned and land acquisition is held up. The land required (10 Ha) for remaining 2 kms. between Angamali and Kaladi can be taken over by paying land cost of ₹ 20.00 cr and this session of project can be commissioned in six months after getting the land. 13. State Government vide letter No.15518/A2/2008/Trans dated 4/5/2011 has expressed their unwillingness to share the cost of the project. 14. Due to considerable increase in the cost of land acquisition by the Fast Track Project method, the State Government has been advised to acquire the land by conventional method. They are yet to commence. 15. Hon'ble High Court of Kerala, in the mean time, has issued a notice to the Ministry of Railways, on a PIL petition, to give a report on the stand of the Railway with regard to proceeding with land acquisition, execution and completion of the project. An affidavit on clearance from Board has been filed. 16. Finally Board sanction for the revised estimate of ₹ 1566 cr. including land cost of ₹ 719 cr is required for further payment for the land and to progress with the works. Commissioning of Angamali, Kalady (7.4 km) section is possible after 6-8 months after sanction of the estimate.
4.		Tindivanam-Gingee-Tiruvannamalai (70 km.) New line	227.40	6%	Detailed estimate sanctioned by Railway Board for ₹ 227.40 crores vide letter No.2008 W1/NL/SR/TT dt. 21/7/2008. Details of land acquisition submitted to the Tamil Nadu state Government. State Government has asked for depositing ₹ 11.51 cr. towards land compensation and the same has been deposited. Due to inadequate budget grant, under new lines this amount could not be released. After getting adequate land, mega tenders will be called. In the meantime, agency fixed for construction of six major bridges and works are progressing.
5.		Tindivanam-Nagari (179.20 km.)—Newline.	582.83	8%	Detailed estimate has been sanctioned by Railway Board for ₹ 582.83 crores for the entire project vide Railway Board letter No.2007/W1/NL/SR/TN dated 4/7/2008. Only for Walaja Raod - Ranipet section, contracts for earth work, bridge works awarded. Earth work for a quantity of 17,000 cum completed and balance are in progress. Works awarded for 19 major Bridges in other sections and all are progressing. 17 minor bridges completed and other are in progress. For want of land, other works are not started. For remaining section

Sl. No.	Division	Name of Works	Cost ₹ in crores	% of over all progress as on 2011-12	Remarks
New Lines Under Construction—Contd.					
					calling mega tenders will be planned after land acquisition. Administrative approval for land has been received in November 2011. State Government has asked for depositing ₹ 40 Crs towards land compensation out of which ₹ 27.73 Crores has been paid so far want of budget grant.
6.		Attipattu—Puttur (88.3 kms.)	527.00	0%	Work included in Pink Book in the year 2008-09 at a cost of ₹ 446.87 crores. The detailed estimate for ₹ 527.37 crs sanctioned by Railway Board vide No.2002/W-1/NL/S/1 dated 7-9-2011, Final Location Survey work completed. Land requirements furnished to Tamilnadu State Governments and to be furnished to Andhra Pradesh Government. 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. Land plan schedule for 22 villages in Tamilnadu area submitted to District Collector at Tiruvallur for acquiring the land acquired. Budget Grant for land payment is not available.
7.		Erode—Palani (91.05 kms.)	603.22	0%	New work included in Pink Book in the year 2008-09 at a cost of ₹ 288.87 crores. Detailed estimate for ₹ 603 crores has been prepared and submitted to Railway Board on 13/8/2010. Physical execution will be taken up after acquisition of adequate land and after getting sanction of the detailed estimate. All papers for the acquisition of the land for 3 districts submitted. 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 of funds. Accordingly, it was advised to State Government to provide land free of cost and share 50% of balance cost of the project. Based on the above letter, State Government of Tamil Nadu 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 Tamil Nadu 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. This project has been frozen by Board vide letter No.2007/W-1/NL/SR/EP dt.6/7/2011. Government of Tamil Nadu is again & again requesting for defreezing the project and start work.
8.		Chennai—Cuddalore (via) Mahabalipuram (179.28 kms.)	800.00	7%	New work included in Pink Book in the year 2008-09 at a cost of ₹ 523.52 crores. 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

Sl. No.	Division	Name of Works	Cost ₹ in crores	% of over all progress as on 2011-12	Remarks
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New Lines Under Construction—Concl'd.

at Mahabalipuram. Striking out the alignment is completed. 180 Km. of alignment has been struck. Detailed estimate is under preparation. Part detailed estimate between New Puducherry and Varakalpattu (26.40 km.) is vetted by finance after obtaining GM's approval, submitted to Railway Board on 21/2/2012. Detailed estimate for the remaining stretches is under preparation.

9.		Madurai-Tuticorin (via) Aruppukkottai (143.5 km.)	601.43	0%	
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New work included in the year 2011-12. State Government of Tamil Nadu has been requested to convey their consent to provide land free of cost and also share 50% of the balance cost of the project vide this office letter No.W.337/1/203/CN dt.31-12-2010. Tender floated for final location survey after obtaining approval of GM.

New Lines sanctioned work during 2011-12.

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

Sl. No.	Name of Work	Cost ₹ in lakhs	Remarks
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3. Surveys**(a) SURVEYS SANCTIONED DURING THE YEAR 2011-12**

(a) Omallur Mettur Dam DL ..	..	231.73	
(b) FLS for new BG-AIP-PUT ..	..	40.00	

(b) SURVEY IN PROGRESS DURING THE YEAR 2011-12

Omallur Mettur Dam DL ..	..	231.73	
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(c) SURVEY COMPLETED DURING THE YEAR 2011-12

FLS for new BG-AIP-PUT ..	..	40.00	
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4. Lines Closed During the year 2011-2012

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	Nil	
8	MTP	Nil	

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 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
1.0 New Lines							
1.	Tirunnavaya - Guruvayur New Line (35 kms)	13,771	1995-96		1,537	0%	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. For the first 8 Kms. alignment finalised and land requirement furnished to the Kerala Government. Part estimate for Guruvayur to Kunnankulam has been sanctioned by GM vide letter No. 0005 of 8/04/2011 for ₹ 62.216 cr. 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. ₹ 10 cr. is to be deposited for land acquisition for which funds are awaited.
2.	Karur - Salem New Line (85 kms.)	71,200	1996-97		69,549	90%	A joint survey of the proposed alignment in Malappuram District was in progress. The survey is again stopped due to public protest. Estimate for ₹ 229.88 crores sanctioned by Board. Revised estimate for ₹ 690.00 cr under vetting & will be submitted shortly. All pending court cases regarding land acquisition were disposed & Rlys. have taken physical possession of required land except at a few locations of ROBs. Extra compensation court cases - out of 1300 cases, 240 cases finalised and the balance are pending in various courts. At some locations, completion of ROBs is heldup for want of land. Section is ready for commissioning. It is proposed to commission the whole Karur-Salem New line section by July 2012. For the doubling work sanctioned for Omalur - Mettur Dam section, part detailed estimate is under preparation. For Salem - Omalur section doubling has been dropped from the Pink Book recently. FLS works are held up in this important doubling. Salem - Omalur section heads to be included in the Pink Book.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
New Lines—Contd.							
							(i) Work completed and engine rolled from 28/03/2011 to 31/03/2011. (ii) Cutting drainage works & ROB/RUB works are in progress. ROB works got delayed due to delay in land acquisition in 18 places. (iii) Bridge protection work, provision of trolly refuges are in progress and to be completed. (iv) Removal of loose boulders from the cuttings and over burden on top of the cutting is to be completed.
3.	Angamali-Sabarimala New Line (116 Kms.)	121,400	1997-98		9,683	3%	1) Railway Board's procedural approval was obtained. Forest department is not allowing Railways to pass through Tiger Reserve Forest. So Board had decided to terminate the new line at Azhutha vide Board's letter No.W.93/W1/Survey/SR II dated 07/01/2004. Final location survey was completed upto Azhutha. Working plan and section approved. Railway Board had sanctioned the part detailed estimate for ₹ 517.70 crores (for major heads) vide Board letter No.93/W1/Survey/SR/11 dated 17/05/2006. 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. Another 9.22 Hec. of land is required up to Kaladi. 3) Railways have already deposited the full provision for land of ₹ 58 cr. to Govt. of Kerala, but the same has been consumed for the land between Angamali & Kaladi for 9.22 Hec. Only and another ₹ 32 cr. is required for land up to Kaladi only. 4) After getting adequate land from the State Government, further tenders will be called. 5) At present, works at a cost of ₹ 5.00 crores for Earthwork and Minor bridges for a short stretch of about 5 Km. from Angamali, are in progress and are nearing completion. Work has been awarded for one Major bridge on 26/05/2010 and is in progress.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
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New Lines—Contd.

6) The State Government has also been requested to decide whether the alignment is to be taken up to Azutha or terminated at Erumeli it self, as there is opposition from forest department. Detailed meeting took place with the Hon'ble CM for Kerala on 12/05/2010, but no decision is received.

7) In the mean time, the Environment Ministry of Central Government also stepped in and took a stand against the execution of the project.

8) Local people & Hon'ble MPs raised issue of alignment of the line in Kottayam District & 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. 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. In the meeting between Hon'ble Chief Minister & GM/S.Rly on 24/6/2011, the issue of alignment dispute in Kottayam District was referred to. During the next meeting on 14/07/2011, District Collector was entrusted with finalisation of the alignment.

9) Detailed estimate for ₹ 1214 cr. has been prepared and sent to Railway Board in September 2010. Board asked for recasting again in view of increased land cost and a recast estimate of ₹ 1566 cr. has been sent to Board vide this office letter No.W.193//CN/ERS/AFK-Sabari dt.11/11/2011. Further progress in land acquisition can be made only after sanction of this detailed estimate.

10) 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 and again reminded. State Govt. has advising in the negative.

11) 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.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
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New Lines—Contd.

							12) Presently, taking over of land could not be done as the revised estimate has not yet been sanctioned and land acquisition is held up. The land required (10 Ha.) for remaining 2 kms. between Angamali & Kaladi can be taken over by paying land cost of ₹ 20.00 cr. and this section of project can be commissioned in 6 months after getting the land. 13) State Government <i>vide</i> letter No. 15518/A2/2008/Trans dt 4/5/11 has expressed their unwillingness to share the cost of the project. 14) Due to considerable increase in the cost of land acquisition by the Fast Track Project method, the State Government has been advised to acquire the land by conventional method. They are yet to commence. 15) Hon'ble High Court of Kerala, in the mean time, has issued a notice to the Ministry of Railways, on a PIL petition, to give a report on the stand of the Railway with regard to proceeding with land acquisition, execution & completion of the project. An affidavit on clearance from Board has been filed. 16) Finally, Board's sanction for the revised estimate of ₹ 1566 cr. including land cost of ₹ 719 cr. is required for further payment for the land and to progress with the works. Commissioning of Angamali - Kaladi (7.4 km.) section is possible after 6 - 8 months after sanction of the estimate.
4.	Tindivanam - Gingee - Tiruvannamalai (70 km.) - New line	22,740	Supp.D.No. 2006-07		3628	6%	Detailed estimate sanctioned by Railway Board for ₹ 227.40 crores <i>vide</i> letter No. 2008/W1/NL/SR/TT dated 21/07/2008. Details of land acquisition submitted to the Tamiladu State Government. State Government has asked for depositing ₹ 11.51 cr. towards land compensation and the same has been deposited. Due to inadequate Budget Grant under new lines, this amount could not be released. After getting adequate land, mega tenders will be called. In the meantime, agency fixed for construction of 6 major bridges and works are progressing.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
New Lines—Contd.							
5.	Tindivanam - Nagari (179.20 km.) - New line.	58,283	Supp.D.No. 2006-07		11,053	8%	Detailed estimate has been sanctioned by Railway Board for ₹ 582.83 crores for the entire project vide Railway Board vide letter No. 2007/W1/NL/SR/TN dated 4/7/2008. Only for Walajah Road-Ranipet section, contracts for earth work, bridge works awarded. Earthwork for a quantity of 1,70,000 cum completed and balance are in progress. Works awarded for 19 major bridges in other sections and all are progressing. 17 minor bridges completed & other are in progress. For want of land, other works are not started. For remaining section calling mega tenders will be planned after land acquisition. Administrative approval for land has been received in November 2011. State government has asked for depositing ₹ 40 crs. towards land compensation out of which ₹ 27.73 crs. has been paid so far for want of budget grant.
6.	Attippattu - Puttur (88.3 kms.)	52,700	2008-09		230	0%	Work included in Pink Book in the year 2008-09 at a cost of ₹ 446.87 crores. The detailed estimate for ₹ 527.37 Cr. sanctioned by Railway Board vide No.2002/ W-I/NL/S/1 dated 7/9/2011. Final Location Survey work completed. Land requirements furnished to Tamilnadu State Governments and to be furnished to Andhra Pradesh government.. 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. Land plan schedule for 22 villages in Tamilnadu area submitted to District Collector at Tiruvallur for acquiring the land acquired. Budget Grant for land payment is not available.
7.	Erode - Palani (91.05 kms.)	60,322	2008-09		131	0%	New work included in Pink Book in the year 2008-09 at a cost of ₹ 288.87 crores. Detailed estimate for ₹ 603 crores has been prepared and submitted to Railway Board on 13/8/2010. Physical execution will be taken up after acquisition of adequate land and after getting sanction of the detailed

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
New Lines—Contd.							
							estimate. All papers for the acquisition of the land for 3 districts submitted. 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 of funds. Accordingly, it was advised to State Government to provide land free of cost and share 50% of balance cost of the project. 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. This project has been frozen by Board vide letter No.2007/W-1/NL/SR/EP dt.6/7/2011. Government of Tamilnadu is again & again requesting for defreezing the project and start work.
8.	Chennai – Cuddalore (via) Mahabalipuram (179.28 kms.)	80,000	2008-09		143	7%	New work included in Pink Book in the year 2008-09 at a cost of ₹ 523.52 crores. 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. Striking out the alignment is completed. 180 kms. of alignment has been struck. Detailed estimate is under preparation. Part detailed estimate between New Puducherry & Varakalpattu (26.40 km.) is vetted by finance and after obtaining GM's approval, submitted to Railway board on 21/2/2012. Detailed estimate for the remaining stretches is under preparation.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
New Lines—Concl'd.							
9.	Madurai – Tuticorin (via) Aruppukkottai (143.5 km.).	60,143	2011-12		0	0.00%	New work included in the year 2011–12. 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 <i>vide</i> this office letter No.W.337/1/203/CN dt.31/12/2010. Tenders floated for final location survey after obtaining approval of G. M.

2.0 GAUGE CONVERSION

1.	Tiruchchirappalli - Thanjavur - Nagore-Karaikal (157Kms.) with extension Nagappattinam-Vailankanni-Tiruthuraipundi via Tirukkuvalai(43 Kms.)	54,896	1995 - 96		49,682	98%	(1) Estimate sanctioned: Tiruchchirappalli - Thanjavur - Nagore section - ₹ 109.05 crores on 22/11/1995. Part estimate for Nidamangalam - Mannargudi restoration line for ₹ 62.17 Crs. on 3/9/2010 (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 - Tiruthuraipundi (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. (3) Revised estimate sanctioned for ₹ 535.13 crores <i>vide</i> letter No.92/W1/GC/S/25 dt.18/6/2010. Sections Opened: i) Tiruchchirappalli - Thanjavur new paralel BG (50kms.) on 1/1/1998. ii) Thanjavur - Tiruvarur (55kms.) on 12/1/2007. iii) Tiruvarur - Nagore (30.37 Kms.) on 27/2/2009. iv) Nagore-Karaikal Port- Freight traffic commissioned on 27/1/2010. v) Nagappattinam - Vailankanni (10.3 km.) - VWorks completed and the section commissioned for passenger traffic on 20/12/2010. vi) Nagore - Karaikkal (10 km.) on 17/12/2011. Progress of Works: Government of Tamilnadu has approved the land acquisition and fund deposited for Nagappattinam District only towards land cost.
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Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
							Fund to be deposited for Thiruvavur District. Proposal for Land acquisition has been submitted to State Government, and acquisition of land - 10 % completed. 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 is in progress. Contract for bridges at a value of ₹ 34.34 cr. has also been awarded and work is in progress. Physical progress - 10% completed. Plate load test for SBC conducted by NITT/at Km. 1.50 to finalise the proposals of minor bridges. Working section under finalisation.
2.	Quilon - Tirunelveli - Tiruchendur & Tenkasi - Virudhunagar - Gauge Conversion (357 Kms)	102,900	1997-98		73,790	95%	Status of the estimate: Part estimate sanctioned by Railway Board as follows: 1) Virudhunagar - Tenkasi, Tenkasi-Tirunelveli-Tiruchendur sections for ₹ 327.61 cr. vide letter No. 97/W-1/GL/S/5 dt. 20/2/2001. 2) Quilon - Punalur section for ₹ 103.24 crores vide letter No.97/W-1/GL/S/5 dt. 22/7/2005. 3) Tenkasi - Sencottai for ₹ 33.63 cr. vide letter No.97/W-1/GL/S/5 dt.10/8/2006 4) BPAC & OFC for Virudhunagar-Tenkasi-Tirunelveli-Tiruchendur (S&T) for ₹ 9.07 cr. included as material modification vide letter No.97/W-1/GL/S/5 dt.16/4/2008. 5) Sencottai - Punalur section for ₹ 357.70 cr. vide letter No.97/W-1/GL/S/5 dated 24/11/08. 6) Providing coach maintenance facilities at Tirunelveli station for ₹ 11.10 cr. included as material modification vide letter No.97/W-1/GL/S/5 dt.26/9/2011. The total cost sanctioned for the above project vide Railway Board's letter No.97/W-1/GL/S/5 dt.26/9/2011 is ₹ 842.35 cr. Sections Opened: 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 Km.) was opened for passenger traffic on 20/9/2004.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
							3) The section between Tenkasi and Sencottai (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. Section handed over to Open Line on 31/3/2012. <u>Sections in progress.</u> 1) Tirunelveli - Tenkasi section - Works completed and engine rolled on 31/3/2011. CRS's inspection conducted on 28/3/2012 & 29/3/2012 2) Sengottai - Punalur section - MG traffic has been closed on 20/9/2010 and various works are in progress.
3.	Madurai - Rameswaram - Gauge Conversion (161 kms.)	33,327	1997 - 98		36,415	99%	Status of the estimate: Part detailed estimate for Madurai - Mandapam section was sanctioned by Railway Board for ₹ 173.68 crores on 7/2/2001. Part detailed estimate for GC work between Mandapam and Rameswaram was sanctioned by Railway Board for ₹ 73.29 crores on 17/3/2006. The section between Madurai - Manamadurai was opened for passenger traffic on 30/4/2005. The section between Manamadurai and Rameswaram (114 kms.) opened for passenger traffic on 12/8/2007. Residual works are nearing completion.
4.	Thanjavur - Villupuram Gauge Conversion (192 Kms.) (RVNL Project)	57,232	1998 - 99		12,354	100%	Status of the estimate: Part detailed estimate for Thanjavur - Kumbakonam section was sanctioned by Railway Board for ₹ 73.05 Crores on 11/3/2003. 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.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
							Thanjavur - Kumbakkonam Section (39 kms.) was opened for passenger traffic on 2-5-2004. GC work between Kumbakkonam & Mayiladuthurai (31 kms.) has been inaugurated and opened for passenger services on 17-6-2006 and handed over to Division on 27/2/2008. Gauge conversion of Villupuram - Mayiladuturai (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.
5.	Cuddalore - Salem - Gauge Conversion (191 kms.) (RVNL Project)	55,664	1999 -2000		26,207	93%	Status of the estimate: Part detailed estimate for Cuddalore - Vriddhachalam section was sanctioned by Railway Board for ₹ 74.01 crores on 30/10/2001. Part detailed estimate for Vriddhachalam-Salem section was sanctioned by Railway Board for ₹ 187.09 crores on 6/1/2004. Vriddhachalam - Vadalur (27 km.) was opened for traffic on 6/1/2003 Vadalur - Cuddalore Port Junction (30 Km.) was opened for Passenger traffic on 29/12/2003. The section between Salem and Attur has been executed by RVNL. 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 (83.02km.). Vriddhachalam - Salem section (134 km.) is opened for passenger traffic on 18/11/2007. 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 21/2/2007. 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.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
6.	Tiruchchirappalli - Manamadurai - Gauge Conversion (150 Kms.).	41,549	2000 - 01		39,370	100%	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. 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.
7	Villupuram - Katpadi - Gauge Conversion (161 Kms.).	51,316	2000 - 01		56,373	100%	Detailed estimate has been sanctioned vide Board's letter No. 2002/W1/GC/S/2 dated 21/6/04 for ₹ 231.72 Crores. An estimate amounting to ₹ 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 19/1/2006. 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.15/03/2011 for Passenger Traffic with speed of 50 km./hr. Accordingly, first train No.16780 from Madurai to Tirupathi passed the section on 31/3/2011.
8.	Manamadurai - Virudunagar - Gauge Conversion (66.55 Kms.).	21,418	2006-07		16,083	70%	Estimate sanctioned for ₹ 138.03 crores vide Railway Board No. 2000/W-1/GC/S/1 dated 31/12/2007. All contracts are awarded. Section is ready for commissioning.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
							In Virudunagar-Aruppukkottai section, work completed and engine rolled on 31/3/2011. Finishing works are in progress. Regarding Aruppukkottai - Manamadurai, two mega contracts including Civil, S&T and Electrical items awarded and work in progress. Regarding Aruppukkottai - Manamadurai, two mega contracts including Civil, S&T and Electrical items awarded and work in progress.
9	Dindigul - Pollachi-Palaghat & Pollachi - Coimbatore - Gauge Conversion (224.88 Kms)	90,000	2006-07		51,115	66%	Work included in the budget 2006-07 at a cost of ₹ 343.17 crores. 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. 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. 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. Contracts for almost all the works finalised and works are in progress. M/s. ARS contracts have failed and retendering is on hand.
10.	Mayiladuturai - Thiruvapur - Karaikkudi and Tiruturaipundi - Agastiyampalli including restoration of Nidamangalam - Mannargudi line & Mannargudi - Pattukkottai.	90,000	2007-08		24,231	94%	Work included in the budget 2007-08 at a cost of ₹ 404.11 crores. Part detailed estimate for Mayiladuthurai-Thiruvapur (31 KM) was sanctioned by Railway Board on 8/5/2008 for ₹ 136.7 crores. Railway Board have included the restoration of Nidamangalam - Mannargudi line (13.25 Kms) as a material modification in 2010-11 Pink Book vide Item No.12. Detailed estimate for Nidamangalam-Mannargudi restoration line sanctioned by Board at a cost of ₹ 62.1 crores.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in- year	Completed in year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							Part detailed estimate for Thiruvavarur - Tiruturai - Karaikkudi and Tiruturai - Agastiyampalli for ₹ 506.72 crores sanctioned by Board vide letter dt.12/9/2011. Pattukkottai - Karaikkudi section - tender opened for dismantling of MG track & construction of minor bridges. Subsequently, 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 are on hand. Nidamangalam-Mannargudi section has been authorised by CRS for running Passenger services and passenger traffic commissioned on 27/9/2011. Mayiladuturai - Thiruvavarur MG section was closed on 8/6/2009. All works completed and engine rolling done on 20/12/2011. CRS inspected the section on 22/3/2012 and authorised for passenger traffic @ 80 km/hr. on 26/3/2012. FLS tender for Mannargudi - Pattukkottai new line has been awarded and work is in progress. FLS is affected by local disturbances. One part detailed estimate for major bridges of value ₹ 19 cr. has been vetted and sent to Board for the Mannargudi - Pattukkottai section and if sanctioned, work can be commenced.
11.	Madurai - Bodinayakanur (90.41 kms)	18,272	2008-09		239	0%	New work included in Pink Book in the year 2008-09 at a cost of ₹ 164.41 crores. Detailed estimate for ₹ 182.72 crores submitted to Railway Board vide this office letter No.W.193/XXII/25/CN dated 27/1/2009. Railway Board have sanctioned part estimate for ₹ 15.00 crores vide Railway Board letter No.2005/W1/NL/SR/1 dated 24/2/2009. Board have raised some observations vide letter dt.03/2/2011 and the same have been attended to and reply sent to Railway Board on 1/8/2011. MG traffic closed with effect from 01/01/2011. Contract awarded for major bridge No.154, 126 & 135 and work commenced. Tender for other major bridges Nos.43, 54 & 163 is being called for.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Concl.							
12.	Chennai Beach - Tambaram - Chengalpattu Suburban Gauge Conversion (60 kms.) (Under MTP Plan Head)	52,000	1998 - 99		44,772	86.57%	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 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 Km.) 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. 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: i) Harrington RUB - completed and commissioned. ii) Rangarajapuram ROB @ LC No.7 split ROB, one leg completed and commissioned on 7/9/2011. and second leg completed except expansion joint. iii) Rangarajapuram RUB - Box pushing completed. Chennai corporation to takeup the approach work. iv) Jones Road RUB - Work completed and commissioned on 11/12/2009. v) Maduvangarai ROB - work completed and commissioned. vi) Jain College RUB - Work completed and commissioned on 6/1/2010. vii) Trisulam ROB - Railway portion GAD approved. Tender to be called. Approach GAD under revision. viii) Pallavaram ROB (Goods shed Road) - Railways: Substructure work completed. Superstructure work in progress. Approaches work nearing completion. ix) Pallavaram RUB - Work completed and commissioned. x) Dharga Road RUB - Railway works completed and commissioned on 25/2/2011.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
3.0	Doubling						xi) Vaishnava College ROB - Work completed and commissioned. on 29/10/2010. xii) Radha Nagar RUB -Box pushing work completed, misc.,works are in progress. xiii) Tambaram Sanatorium ROB -Work completed and commissioned. xiv) Tambaram - Velachery Road ROB - Work completed and commissioned. 2. Cost of the Gauge Conversion is about ₹ 370 crores and cost of the 14 ROB/RUBs is about Rs.150 crores, totalling ₹ 520 crores. 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. (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. (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. (d) Railway Board vide their letter No.99/Proj/MAS/2/3 dated 30/08/2005 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. (e) Draft report submitted by RITES has been circulated to operating, S & T, Mech & Safety departments of SR for their remarks.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
							(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. (g) The State Govt. advised that this project is not feasible in view of the Metro Rail Project crossing through Poonamalli High Road. 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.
1.	Calicut - Mangalore Doubling (221 kms.)	57,937	1995 - 96		60,045	97%	Out of 220.54 km. 218.30 km. 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 & completed. NI working for both the yards (Nethravathi and Mangalore) will be taken up during April/May 2012 after which the doubling will be fully commissioned by April/May 2012. CRS / SBC has inspected the section on 8/2/2012 & authorised for passenger traffic. Detailed estimate sanctioned by Railway Board for ₹ 38.66 crores.
2.	Irugur-Coimbatore Doubling (17.70 kms.)	9,800	1996 - 97		9,239	100%	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 Km.) 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.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
3.	Attippattu - Korukkupet Third line (18 Kms.) (RVNL Funded Project, being executed by S.RLY).	14,000	1999 - 2000		13,004	83%	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 09/03/09 and handed over to open line on 9/9/2009. For Ennore to Attippattu (6 kms.) Earth work and major bridge completed. Three minor bridge work in progress. Earth work and blanketing for Attippattu yard is in progress. Ennore to Attippattu Pudunagar (3.87 km) of 3rd line has been completed and made fit for goods traffic. Track work is in progress. CRS inspection is planned by 31/7/2012.
4.	Ernakulam - Mulanturutti Doubling (17.37 kms.).	11,083	2001 - 02		10,376	99%	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. Part work of doubling between C & D cabins at ERS already completed and commissioned on 12/06/2006, IPN line commissioned on 1/5/2007. Works between ERN & C cabin at ERS are in progress. Division's concurrence is awaited for the doubling proposed between ERN & ERS 'C' cabin in view of speed restriction in ERS complex. 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 26/03/2010. Platform No 6 (Road No 10) at ERS has been commissioned on 22/5/2011. Line is yet to be taken over by Division.
5.	Chennai Beach - Korukkupet III line (4.1 kms.).	8,570	2003 - 04		98	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 at a

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
							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 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.
							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-I/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.
6.	Mavelikara - Kayankulam (7.89 kms)	7,087	2003 - 04		6,251	100%	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 25-6-2010. Doubling commissioned on 11/3/2011. Section is yet to be taken over by Division.
7.	Cheppad - Kayankulam (7.76 kms)	6,874	2003 - 04		3,966	100%	Estimate has been sanctioned by GM/MAS for ₹ 26.24 crores on 26-7-2005. All works completed. Section commissioned on 4/1/2012 and the section dedicated to the nation on 19/1/2012 by the Hon'ble MOSR.
8.	Mavelikara - Chengannur - Patch Doubling (12.3 kms)	10,235	2003 - 04		7,900	95%	Estimate for ₹ 48.34 crores has been sanctioned by Board on 7/12/2006.
9.	Cheppad - Haripad - Patch Doubling (5.28 kms.).	4,002	2003 - 04		3,028	100%	All works completed. All works completed. Section commissioned on 4/1/2012 and the section dedicated to the nation on 19/1/2012 by the Hon'ble MOSR.
10.	Chennai Beach - Attippattu 4th Line (22.1 Kms).	10,242	2003-04		400	8%	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.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
							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 Rs.100 cr.) on 23/2/2011.
							Superstructure of Br. No.44 is in progress, 4 Girders cast out of 17 spans. For other works tender schedule are under preparation.
11.	Madurai - Dindigul (62.05 kms.)	22,872	2003-04		21,792	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 28/8/2006. 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.
12.	Mulanturutti - Kuruppantara Doubling (24 kms.).	18,577	Supp. Demands for grants	2005-06	8.074	7%	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 14.62 Ha. has been given. 5.35 Ha. of land has been handed over. 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.360 - Completed except finishing. Br. No.367 substructure completed & 2/4 spans completed & in progress. Br. No.388 & 392 - All works completed. Br. No.402 - Substructure completed. Superstructure 1/7 launching completed & remaining in progress. Br. No.433 - all piles, 3/3 pile caps completed.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
							Pile Load Test completed. Br. No.435 - substructure & superstructure completed. Finishing work is in progress. Tender has been opened for reach works in Mulanturutti - Piravam Road section and the same has been finalised. 204500 cum of earthwork completed. 15/35 minor bridges completed in Mulanturutti - Piravam Road, 8 nos. are in progress. Bridge No.368 completed except finishing. Br.No. 397- 25/32 piles completed. All major bridge works in Piravam Road - Mulanturutti (2 Nos.) are in progress and reach works are also in progress. Shifting of the existing of cables in Piravam Road - Mulanturutti section is to be done by S&T department for providing with the reach works. 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.
13.	Chengannur - Chingavanam Doubling (26.5 kms.).	22,295	2006-07		5,810	7%	Detailed estimate amounting to ₹ 132.25 crores has been sanctioned by GM/MAS. Requisition for land acquisition for 18.88 Ha. has been given & 8.473 Ha. of land has been handed over so far. 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 completed. Finishing work is in progress. For Br. No.153, substructure & Superstructure completed. Finishing work is in progress. Work has been awarded for Bridge Nos 160 & 161 on 30/11/2009. For Br. No.174, 182 & 197 tenders discharged and retender called. For Br. No.148, 36/48 piles completed, 3/7 pilecap completed Work has been awarded for Br. Nos.160, 161, 213, 217 & 240. Br. No.151 - sub-structure completed. Br.No.162 - All piles completed. Br.No 213- All piles completed. Br. No.217 - 16/18 piles completed. Agency fixed for 2 reaches out of 3 reaches & for Br.No.145,154 & 163 in Chengannur - Tiruvalla section.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
							Earthwork 3000 cum completed. Br. No. 161 - 8/42 piles completed. 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. Tenders opened for ROB No.207 & RUB Nos. 144 & 168.
14.	Kankanadi - Panambur section PatchDoubling (19 kms.).	14,920		Supp. Demands for grants 2006-07	865	1.8%	Detailed estimate sanctioned at the cost of ₹ 149.20 crores. Heavy yard work, 710m tunneling works, 25m to 30m 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. For remaining portion except tunnel portion tenders have been called which are under finalisation.
15.	Chengalpattu - Villupuram (103 km) - with new Material Modification for Tambaram - Chengalpattu - 3rd line by GC of existing MG line alongwith electrification (30 km.).	75,154		Supp. Demands for grants 2006-07	42,847	53%	Detailed estimate for ₹ 369.41 crores sanctioned by Railway Board vide letter No.2000/W-1/GC/SR/CGL-VM dated 08-4-2008. 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. Villupuram - Mundiampakkam commissioned. Other sections: Madurantakam - Melmaruvathur: CRS inspected & authorised the section for traffic. Pernani-Vikravandi (6 km) & Vikravandi-Mundiampakkam (6 km) - Completed & Engine rolled in January 2012. Chengalpattu - Ottivakkam: 30/4/2012; Ottivakkam - Madurantakam: 31/12/2012; Melmaruvathur - Tozhuppedu: 31/12/2012; Tozhuppedu - Perani: 31/7/2013.
16.	Kuruppanthara - Chingavanam (26.54 Kms.).	33,555	2007-08		608	0%	Final Location Survey completed and detailed estimate prepared for ₹ 335.55 cr. and sent to Railway Board on 10/5/2011. 30 hectares of land will have to be acquired by State Government for which requisition has already been given. Part estimate for ₹ 16.11 lakhs has been sanctioned for preliminary works.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2012 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Concltd.							
17.	Ambalappuzha - Haripad(18.13 Kms.)	12,525	2007-08		2029	0%	New work included in the budget 2007-08. Estimate for ₹ 107.89 cr. has been sent to Railway Board on 27/1/2011. Subsequently, the estimate has been recast & the same has been sanctioned by GM. Agency fixed for final location survey and the same is in progress. Requisition for land acquisition for 23.21 Hec. has been given. Target can be fixed only after land acquisition is completed. Tenders finalised for major bridges. Handing over of land is in progress. 21.500 Ha. of land has been handed over. Tender opened for major bridge Nos.188, 200, 213 & 221 & awarded. Tender for reach work I & II floated & reach III cancelled and refloated.
18.	Villupuram- Dindigul (with Electrification. 273 Kms.).	12,8000	2008-09		84	0%	Work included in the Budget 2008-09. 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.
19.	Tiruvallur-Arakkonam 4th line (26.83 Kms.).	7,892	2008-09		0	0%	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/8/9/01 dated 15/7/2008.
20.	Ernakulam - Kumbalam Patch doubling (7.71 kms.).	7,132	2010-11		143	0.12%	Work included in the Budget 2010-11. Estimate is under vetting. Land requirements furnished to the State Government. Part estimate for ₹ 72.81 lakhs has been sanctioned for preliminary expenses.
21.	Kumbalam - Thiruvavarur - patch doubling (15.59 km.).	13,735	2011-12		32	0%	Work included in the Budget 2011-12. Detailed estimate under preparation. Part estimate for ₹ 117.03 lakhs has been sanctioned for preliminary expenses. Part estimate is under sanction for major bridge No.EAK-31. Land requirements furnished to State Government (13.24 ha).

Progress of CME controlled works costing Rs. 20 Lakhs and above each under various plan heads

Figs. in Lakhs of Rupees

Sl. No.	PBI Law	Item No. of 2011-12	Name of work	Estimated cost	Started in year	Completed in year	Exp. upto 31-03-2012	Physical progress %	Brief Reasons or advantages achieved as on 31st March - 2012
1	2	3	4	5	6	7	8	9	10
PLANHEAD - 42 (WORKSHOPS INCLUDING PRODUCTION UNITS)									
1	PB	516	Ponmalai Modernisation of Workshops	11465	2007-2008	Work in Progress	637.35	30%	To accommodate the cost escalation of Rs. 22.20 crores on PAMA milling m/c. revised estimate has been prepared for Rs. 11465 lakhs & sanctioned by GM on 29-04-2010. GM laid foundation for Modernisation work on 05-03-2010. For Civil & Electrical works, contract awarded & work commenced. Fabrication and erection of steel structures nearing completion. Flooring work & service building in progress.
2	PB	517	Perambur Carriage and Wagon Workshops : Extension of paint shop line 1 to 9 on eastern side	1676.21	2007-2008	Work in Progress	297.37	36%	Revised detailed estimate sanctioned at a cost of Rs. 1676.21 Lakh on 08-06-2009 Works on Line 8 & 9 are completed new toilet building completed. Other works are in progress. Foundation for paint shop completed. Pillars & roof girders erected and now putline work is in progress.
3	LAW	1024	Perambur Carriage and Wagon Workshops : Effluent treatment plant with pipeline arrangements (4 locations) (id: 4561 PB 04-05 PB 04-05, CME)	10416	2004-2005	With completed in 2010-2011	77.72	100%	Work completed.
4	LAW	1026	Perambur Loco Works - Infrastructure Facilities to control water & air pollution (id: 4551 PB 04-05 CME)	144.7	2004-2005	Work in Progress	150.22	100%	Work completed awaiting TNPCB certificate.
5	LAW	1028	Tondiarpet - Maintenance facilities for 140 ton diesel crane for Chennai Division (id: 1275/07-08), CME	133.29	2007-2008	Work in Progress	14.71	20%	Detailed estimate sanctioned on 23-04-2008 LOA issued on 19-06-2009 and work in progress.

Figs. in Lakhs of Rupees

Sl. No.	PBI Law	Item No. of 2011-12	Name of work	Estimated cost	Started in year	Completed in year	Exp. upto 31-03-2012	Physical progress %	Brief Reasons or advantages achieved as on 31st March - 2012
1	2	3	4	5	6	7	8	9	10
6	LAW	1029	Tondiarpet - Maintenance facilities for 140 ton diesel crane for Chennai Division (id: 1275/07-08), CME.	235.9	2005-2006	Work in Progress	14.71	20%	Detailed estimate sanctioned on 23-04-2008 LOA issued on 19-06-2009 and work in progress.
7	LAW	1048	KANKANADI Premium train examination facilities	345.2	2007-2008	Work Completed	252.4	100%	Work completed
8	LAW	1060	Ponmalai Work-shops Augmentation of wagon production capacity from 560 to 1000 per annum	210.49	2007-2008	Work in Progress	187.19	100%	Work completed. 15 Nos. of IGBT welding plants are under transit.
PLANHEAD - 53 (PASSENGER AMENITIES)									
1	PB	560	Basin Bridge Jn. : Augmentation of water supply arrangements by installation of re-cycling plant & electronic monitoring system	515.37	2004-2005	Work in Progress	155.4	75%	Work is in Progress.
2	LAW	1429	THIRUVANANTHAPURAM DIVISION - Ernakulam Coaching (ERMCD) - Supply Installation and commissioning of Mechanised laundry 1 tonne/ shift capacity at ERMCD.	185.05	2010-2011	Work in Progress	0	%	Estimate under preparation.
PLANHEAD - 64 (OTHER SPECIFIC WORKS)									
1	LAW	1507	Chief Mechanical Engineer's Office- Modernisation of office.	31.86	2006-2007	Work in Progress	0	25%	Work is progress.
2	LAW	1506	Chennai NGO Annexe Building : Modernisation of Chief Mechanical Engineers' Office- Phase II (Western wing)	32.86	2007-2008	Work in Progress	0	25%	Work in Progress.

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	Proposed sand humps on loop line Road No.1 at MPLM and Road No.1 & 2 at KMD.		16.36	
3. Palghat	Angadipuram yard		27.65	
4. Tirvandrum	Nil			
5. Tiruchchirappalli	Provision of one stabling line on the southern side of the yard.		49.00	
6. Madurai	TSI-TEN-Yard towards TSI side		179.00	
7. MTP	Nil			
8. CE/CN/MS	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. CE/CN/MS	Nil			
8. MTP	Nil			

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

1. MAS	Nil			
2. Salem	a) ED - Improvements to freight terminals.		244.00	
	b) ED - KRR section - Replacement of MAUQ signalling gears by P1 & 3 mid section of LCs including.		103.02	
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 Tirvandrum side.		1,016.84	
	3. Kanniyakumari—Proposed additional platform and extension of platform.		398.68	
5. Tiruchchirappalli	GOC - Ponmalai Yard (GOC) Double entry facility in Road 7 and GOC Diesel shed.		29.00	
6. Madurai	1. DG yard		540.00	
7. CE/CN/MS	Nil			
8. MTP	Nil			

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

1. Chennai	..	Nil	..
2. Salem	..	Nil	..
3. Palghat	..	Nil	..
4. Tirvandrum	..	Nil	..
5. Tiruchchirappalli	..	Nil	..
6. Madurai	..	Nil	..
7. CE/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	..
5. TPJ	..	Nil	..
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) 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	..	Proposed sand humps on loop line on Road No. 1 at MPLM.	16.36
3.	PGT	..	Nil	..
4.	TVC	..	Development of terminal facilities.	246.00
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	..	Proposed sand humps on loop line on Road No. 1 & 2 at KMD. Augmentation of Goodshed facilities-SAMT.	37.61 85.98
3.	PGT	..	Nil	..
4.	TVC	..	NCJ - One single phase PF, one stabling line and simultaneous despatch and reception facilities. CAPE - Additional PF and extension of PF. Provision of three line crossing station between Valliyur - Aralvaymoli (North Panankudi)	1016.84 398.68 702.94
5.	TPJ	..	Nil	..
6.	MDU	..	TDN, NRK, TAY, MVN Provision of sanded dead end-Work awarded but not yet started.	198.00
7.	CN/MS	..	Remodelling of MDU yard-DG-MDU-DL. KOKG-Goods terminal facilities	600.00
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

1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CE/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	..	Nil	..
6.	MDU	..	Nil	..
7.	CE/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	..

(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. OLR - Goods shed improvement and paving of unloading area.	29.65 29.65
5.	TPJ	..	Nil	..
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

(₹ in Crores)

Sl. No.	Division	Section	Length in km.	Physical progress	Date of which the section offered		Remarks
					Goods Traffic	Passenger Traffic	

(a) New doubling sanction during the year 2011-2012

1	MAS	NI					
2	SA	NI					
3	PGT	NI					
4	TVC	NI					
5	TPJ	NI					
6	MDU	NI					
7	CE/CN/MS	NTVT-MAJN	5.333			5.333	
8	MTP	NI					

b) Doubling in progress

1	MAS	NI					
2	SA	NI					
3	PGT	NI					
4	TVC	NI					
5	TPJ	NI					
6	MDU	NI					
7	CE/CN/MS	a) SA-Mettur Dam	29.03	5%			Survey work is in progress
		b) CGL-MMK	25.00	60%			
		c) PEI-MYP	12.614	95%			NI Work completed
8	MTP	NI					

Doubling completed.

1	MAS	NI					
2	SA	NI					
3	PGT	NI					
4	TVC	NI					
5	TPJ	NI					
6	MDU	NI					
7	CE/CN/MS	a) DG-KQN(BG) (DL).		100%			30.09.08
		b) NTVT-MAJN		100%			
		c) MMK-MLMR	11.00			Yes	CRS Inspection completed and commenced.
		d) MYP-VM					
		e) MDU-KQN(BG) (DL).		100%			29.07.09
8	MTP	NI					

9. Siding

Estimate cost (₹ in Lakhs)

Sl. No.	Station	Name of Work	Estimated cost in lakhs	Position as on 31/3/2012
I. Private Sidings—Works completed				
(i) Works Costing more than ₹ 5 lakhs				
1.	MAS	.. PON : India Cement Siding point ..	1800.00	
2.	SA	.. PON : Zuari Cement Siding ..	1500.00	
3.	PGT	.. Nil		
4.	TVC	.. Nil		
5.	TPJ	.. Nil		
6.	MDU	.. TNHB marshalling yard. Proposed extension of Railway track at coal stock yard from the existing road No. 5 towards the east side to accommodate full rake length on deposit terms.	163.12	
7.	CNMS	.. 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.	CNMS	.. 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.	CNMS	.. 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.	CNMS	.. Nil		
8.	MTP	.. Nil		
(B) Assisted siding				
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.	CNMS	.. Nil		
8.	MTP	.. Nil		

9. Siding

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		
(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		
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		

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	
(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.	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		
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.	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		

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	34	1412.52	3	7.00	41	2590.87	1	4.00

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	4	50.18	Nil	Nil	3	79.15	Nil	Nil
2	SA	11	524.42	2	4.00	7	832.00	Nil	Nil
3	PGT	8	750.01	1	3.00	15	1248.34	1	4.00
4	TVC	Nil	Nil	Nil	Nil	1	188.24	Nil	Nil
5	TPJ	11	87.91	Nil	Nil	14	216.57	Nil	Nil
6	MDU	Nil	Nil	Nil	Nil	1	26.57	Nil	Nil
7	CN/MS	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
8	MTP	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total		34	1412.52	3	7.00	41	2590.87	1	4.00

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	ADEN/S/SA - Sub Divn. - Proposed rail fencing along side road parallel to track,	20.00
		KRR Sub-Division - Repairs to existing steel fencing in way side stations,	20.60
		Fabrication and erection of height gauges for LCs and important ROB/RUBs in ADEN/S/SA Sub-Divn.	94.00
		ADEN/S/SA - Sub-Divn. Proposed rail fencing along side road parallel to track.	51.00
		ADEN/PTJ Sub-Division - Proposed rail fencing along side the road parallel to track in E/PTJ & CBF P.Way section.	17.00
3.	PGT	Nil	
4.	TVC	ERG Boundary wall.	10.09
5.	TPJ	Nil	
6.	MDU	NZT (TEN-TCN) - Construction of boundary wall.	15.00
7.	CE/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.	CE/CN/MS	Nil
8.	MTP	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		Nil	
2. SA		SE/P.Way/ONR section - Proposed fencing along side road parallel to track.	12.53
3. PGT		Nil	
4. TVC		ERS - Diesel Shed - Compound wall to shed area 1115 m long.	98.95
5. TPJ		Nil	
6. MDU		a) RMM (KKDI-RMM)- Construction of boundary wall to sick line and pit line area along with Railway boundary.	41.84.
		b) Construction of boundary wall between Km.496 — 497 (VPT).	26.69.
7. CE/CN/MS		Nil	
8. MTP		Nil	
(ii) Works Costing less than ₹ 5 lakhs :-			
1. MAS		Nil	
2. SA		Nil	
3. PGT		Nil	
4. TVC		NCJ—Provision of rail fencing for a length of 450 m.	4.63
5. TPJ		Nil	
6. MDU		Nil	
7. CE/CN/MS		Nil	
8. MTP		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		
1. MAS		Nil		
2. SA		Nil		
3. PGT		Nil		
4. TVC		Nil		
5. TPJ		TJ - Provision of new goodshed road with separate entry and exit facilities.		30.00
6. MDU		Nil		
7. CE/CN/MS		Nil		
8. MTP		Nil		

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. MDU	Nil
7. CE/CN/MS	Nil
8. MTP	Nil

Sl.No.	Division	Station/ Section	Name of work	Cost of ₹ (in lakhs)
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(B) Works in Progress :-**(i) Works Costing more than ₹ 5 lakhs :-**

1. MAS	Nil			
2. SA	a) ED - Improvements to running room, provision of approach road to ELS, shed, provision of rolling hunts and improvements work in DSL shed.			35.55
	b) ELS/ED construction of covered shed for BOSCH tank.			16.74
	c) ONR - Provision of single bay with roof and pit line for MG diesel Loco wheel changing and gantry arrangements for loco shed.			54.93
3. PGT	Nil			
4. TVC	NCJ - Construction of new running room.			30.00
5. TPJ	VM - Combined running room (Id 1860/08-09/CE/OL			158.00
6. MDU	TN - Construction of running room.30.00 MVN - Construction of running room.30.00 TEN - Construction of additional beds in first floor.			15.00
	RMM - Construction of TTE's rest room with 12 beds in cubical poriton, study room kitchen etc.			80.48
	RMM - Construction of running room to accommodate 15 beds.9.98			
7. CE/CN/MS	Pit line at TN			600.00
8. MTP	Nil			

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. Provisional Improvements to office Stores and Workshops

Sl. No.	Division	Station & Name of work	Estimate Cost ₹ (in lakhs)
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(A) Works Completed :-**(i) Works Costing more than ₹ 5 lakhs :-**

1. MAS	Nil		
2. SA	S&T workshop surroundings by landscaping the waste land inside the workshop by providing roads and garden.	48.49	
3. PGT	Nil		
4. TVC	Nil		
5. TPJ	a) Provision of a new DEMU sick line at BG coaching complex. b) VRI - Construction of TXR office of size 16.5 & 6.5m in between PF No. 1 & 2. c) GOC shop - Augumentation of wagon production capacity from 560 to 1000.	30.00 13.00 255.00	
6. MDU	Nil		
7. CE/CN	Nil		
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. MAS	Nil		
2. SA	Nil		
3. PGT	CAN - Repairing flooring of SE/PW/O/CAN. CLT - Repairs to TIA Office. QLD - Repairs to compound wall of SE/PW/O/QLD. CLT - Compound wall of ASTE/O/CLT.	1.20 0.65 1.65 0.65	
4. TVC	Nil		
5. TPJ	Nil		
6. MDU	Nil		
7. CE/CN/MS	Nil		
8. MTP	Nil		

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

1. MAS	a) PER SW II GSD/PER - Provision of toilet block for ladies, gents and physically challenged persons at platform keeping side. SW-III GSD - PER - Provision of toilet block for ladies gents at ground floor of main office. SW-X PER electrical workshop-Improvements to IDN meter testing lab.	59.88	
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14. Flood Investigation and related subjects 2011-12**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 2011-2012, a total of 244 Nos. have been classified as vulnerable and problematic from consideration of waterway and floods. During the year 2011-2012, Flood Organisation has investigated a total Number of 97 Nos. bridges and reaches including Rebuilding, Breaches, GAD clearance, other reference received from the State Authorities and NQC on flood point of view and respective recommendations were communicated to the Divisions.

B. River Gauging and Survey Works :

During the monsoon of 2011-2012, 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 2011-12 the above meeting was held for Andhra Pradesh on 27.09.2011, 17.05.2011, 28.04.2011 and 07.05.2010, Kerala on 07.07.2010 and 03.06.2011.

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)
		b) GSD - PER repairs to flooring at various wards.	40.46
		c) Construction of separate building to accommodate F II & F III wards at GSD/PER burn unit central hospital PER/Electrical Workshop at PER improvements to IDN meter lab.	48.14
		d) Improvements to water supply arrangements, approach road to main office at GSD/PER ainsley canal at PER COS/PER/FA & CAO office.	32.43
		e) Zone C5 PER maintenance of all buildings and roads/Electrical & S&T workshop at PER.	7.24
		f) SPE - Reconstruction of CTFO/OHE/ PON office and construction of tower wagon shed at PON for OHE depot.	302.00
2.	SA	a) Improvements to office and stores of SSE/P.Way/PTJ	66.54
		1) CBE - Removal of damaged OLD catwalk & construction of New "L" type cat walk in old plinth line with watering facilities.	
		2) MTP - Basic infrastructural facilities for NMR coach and loco maintenance	90.32
3.	PGT	TIR - Proposed construction of SE/PW/TIR office.	22.35
4.	TVC	Nil.	
5.	TPJ	TPJ - Improvements to office accommodation in Account Branch in Divisional Office complex.	30.00
6.	MDU	TEN-Construction of ADEN office	25.00
		TEN-Construction of ADSTE Office	25.00
		TEN-Construction of SSE/Works office	25.00
		TEN-Construction of SSE/P.Way office	25.00
7.	CE/CN/MS	a. Erode AC Elec. Loco shed 120-175 locos.	1274.00
		b.BBQ- Removal of coach maintenance deficiencies	699.00
		c. PER-Loco works-Modernisation	8109.00
		d. PER-Elec.Works-Modernisation	498.42
		e. PER-CWS-Extension of Paint shop	1605.00
		f. PER-CWS-Modernisation of workshop	..
		g. RPM-Extension of AC Loco -50-100	1573.00
8.	MTP	Nil	
(ii) Works costing less than ₹ 5 lakhs each.			
1.	MAS	Nil	
2.	SA	Nil	
3.	PGT	i) CAN - Repairs to new SE/PW/O/CAN	1.57
		ii) CAN - Repairs to new SE/BR/O/CAN	0.75
4.	TVC	Nil	
5.	TPJ	Nil	
6.	MDU	Nil	
7.	CE/CN/MS	Nil	
8.	MTP	Nil	

E. Breaches and washaways

Details of breaches and washaways occurred during the year 2011-12 as follows :

Section	Date	Month	Year	Location (Km./Post)	Remarks
<u>Chennai Division</u>					
MS-VM	5	11	2011	..	Water logging at MS, MSK and at Chetput Station B-line.
MAS-AJJ	5	11	2011	6.28-7.74	Water logging Between PCW and PEW stations.
<u>Palakkad Division</u>					
MAQ-PNMB	18	8	2011	8/500-9/200	Due to sudden Rainfall (cutting location) water over flowed the track above Rail level (Rain fall 69 mm.).
<u>Thiruvananthapuram Division</u>					
TVC-NCJ-CAPE	31	12	2011	..	Water stagnation in TVC, NCJ and CAPE yards.
<u>Salem Division</u>					
MTP-UAM	30	10	2011	27/7-8	Earth Slips (16 cu.m)
MTP-UAM	30	10	2011	29/0-1	Earth Slips (6 cu.m)
PTJ Yard	6	11	2011	486/22-487/16	Water logging A & B line
IGU-CBF-PTJ	6	11	2011	10/19-21	L. C. 27 Water level rose upto R. L. Pilamedu and CBE Junction.
IGU-CBF-PTJ	6	11	2011	Br.22A	Water level rose in RUB and silled over the track towards CBE Yard. Above Rail Level and All Tracks Down at Trichur Yard.
ED-TP	7	11	2011	12/400-500	L. C. No. 11 Water over flowed.
ED-TP	7	11	2011	12/100-200	L. C. No. 11 Water over flowed.
<u>Tiruchchirappalli Division</u>					
CUPJ Yard	2	11	2011	CUPJ Yard	At CUPJ Road 1 (Loop line) water logging.
VM-PDY, VM-TPJ (Main) and VM-VRI Section	30	12	2011	..	Thane cyclone crossed near cuddalore with wind speed of 140-130 kmph. between 06-30 - 7-30 hrs. on 31-12-2011. Due to this over head equipment severely damaged and uprooted trees obstructed the track in VM-PDY, VM-TPJ (Main) and VM-VRI Section.
<u>Madurai Division</u>					
TPJ-MDU	1	11	2011	448/900-449/000 (Up line)	Boulder fall.
TPJ-RMM	5	11	2011	539/800-540/000	Br. No. 411 (1 x 1.20 m. RCB) Water level above danger level.

F. List of bridges/reaches investigated category wise (2011-12)

Sl.	Division	Section	Br. No.	Km.	Exg.	Prop.
1	TVC	NCJ-CAPE	..	5/200	..	Breach Prot of cause way Washout
2	TPJ	CUPJ-VRI	..	..	..	rebuilding LAW 10-11
3	MAS	MAS-JTJ	520	173/200-300	1 x .91 m. SD/RS up and Dn.	rebuilding LAW 10-11
4	MAS	MAS-JTJ	521	173/400-500	1 x .91 m. SD up	..
5	TPJ	MV-KKDI	427	112/400-500	..	Breaches Meandering Vellar Flood
6	TPJ	VM-MV	645	..	..	Protection
7	TPJ	VM-TPJ	129	..	..	Water flows
8	TPJ	CUPJ-VRI	109	..	..	Water flows
9	TPJ	CUPJ-VRI	110	..	..	PCE ins note Scour
10	SA	VRI-SA	92	102/600-700	2x11.85 m. G+2x4.9 Sl.	Protection Meandering Vellar
11	TPJ	VM-MV VRI-SA	645	..	..	PCE insp note Past
12	TPJ	..	..	181/9-13	..	history Flood
13	SA	VRI-SA	42	83/200-300	..	PCE insp note
14	SA	..	153	135/710	..	Sag elemi
15	SA	..	..	136/100	..	..
16	SA	VRI-SA	..	187/0-500	..	PCE insp note
17	SA	ATU-YD	..	..	..	PCE insp note/Water
18	MAS	..	121	46/1-2	4x17.29 m. PSC BOXG	Over Flown
19	MAS	CGL-CJ	6	1/745	..	PCE insp note
20	MDU	..	..	..	..	Siding PCE insp note study flow
21	PGT	SRR-MAQ	1037	699/200-300	2x3.05 m. A dn.	pattern Siding
22	PGT	DG-POY	242	120/6-7	1x0.60 m. AC	Rebuilding
23	TPJ	VM-MV	..	166/200-	..	Closure of br.
24	TPJ	VM-TPJ	129	167/800	..	Tank Protec.
25	SA	VRI-SA	121	116/600-700	..	Flood Protection
26	SA	VRI-SA	122	116/800-900	..	PCE insp note
27	SA	VRI-SA	142	311/800-900	..	PCE insp note
28	TPJ	ALU-VLDE	329	..	..	Sag elemi closure of br.

GAD

1	MAS	MAS-GDR	45	17/32-34	2x6.1 m. RC	2x6x3.5 RCB TWIN
2	MAS	MAS-GDR	46	18/28-30	2x3.66 m. rc	2x4.0x2.772 m. RCB
3	TVC	SRR-ERS	170	82/700-800	3x9.14 m. G	Replacement
4	VM-TPJ	..	75	189/600-900	10x17.6 m. PSC BO G	10x18.78 m. PSC B G
5	RVNL	VM-TPJ	1187	366/1-2	4x6.1 m. PSC Slab	2x2x6.48 RC BOX
6	RVNL	VM-TPJ-MDU	1215E	377/9-11	5x6.10 m. PSC Slab	5x6.70 m. RC BOX
7	CN	BDNK	180	84/10-11	1x12.19 m. SK G	2x12.19 m. PSC I G
8	VM-TPJ	..	1142	..	10x7.843 m. SK PS B G	10x8.743 SK
9	CN	DG-POY	206	93/14-15	1x12.19 m. SK Steel G	1x18.3 m. PSC U
10	CN	MVYD	784	283/900-284/0	3x7.62 m. G MG	3x12.2 m. PSC U
11	PGT	SRR-NIL	61	20/600-700	1x0.61 m. RS	1x1.0 m. RCB
12	PGT	PTJ-SRR	573	520/500-600	5x4.57 m. A	Jacketting
13	CN	MV-TVR	21	4/1-2	2x6.09 m. G	2x9.14 m. PSC U
14	CN	MV-TVR	51	9/10-11	2x12.19 G	2x12.2 m. PSC U
15	CN	MV-TVR	74	13/1-2	1x12.19 m. G	1x12.2 m. PSC U
16	CN	MV-TVR	83	14/4-5	1x9.14 m. G	1x12.2 m. PSC U
17	CN	MV-TVR	94	CH 16916	1x9.14 m. G	2x9.14 m. PSC U
18	CN	MV-TVR	105	CH 19049.3	5x12.2 m G	5x12.2 m. PSC U
19	CN	MV-TVR	175	CH 29621.4	3x7.6 m G	3x9.14 m. PSC U
20	RVNL	VM-TPJ	150	223/600-800	5x12.0 m PSC BOX	5x11.80 m. EXT
21	RVNL	VM-TPJ	151	224/000-224/100	1x4.30 m. RC Slab	BOX
22	RVNL	VM-TPJ	152	224/800-900	1x4.18 m. RC Slab	2x12.19 m. PSC U
23	RVNL	VM-TPJ	153	..	..	EX
24	RVNL	VM-TPJ	..	..	..	2x12.19 m. PSC U
25	RVNL	VM-TPJ	..	..	..	EX
26	RVNL	VM-TPJ	..	..	..	3x11.81 m. PSC U

23	RVNL	VM-TPJ		225/500-600	3x11.50 m. PSC BOX	EX
24	CN	POY-PGT	13	7/2-3	6x18.29 m. G	7x18.3 PSC BOX
25	PGT	SRR-MAQ	1159	800/400-500	1x12.19 m. G dn	1x12.2 m. PSC U
26	CN	MV-TVR	111	CH 20989.9	5x12.19 m. G	6x12.2 m. PSC U
27	CN	MV-TVR	136	CH 24609.15	5x7.6 m. G	5x9.14 m. PSC U
28	CN	MV-TVR	153	CH 27157.8	2x9.14 m. G	2x9.14 m. PSC U
29	CN	MV-TVR	187	CH 32158	5x12.2 m. G	6x12.2 m. PSC U
30	CN	MV-TVR	201	CH 35012	2x7.6 m. G	2x9.14 m. PSC U
31	CN	MV-TVR	210	CH 37084.8	3x12.2 m. G	3x12.2 m. PSC U
32	PGT	SRR-MAQ	1149	788/300-500	2x6.1 m.+6x12.19 m. G	PSC G
33	RVNL	VM-TPJ	33	173/300-400	1x11.1 m. PSC BO G	1x12.2 m. PSC U
			34	173/600-		28x16.885 m. PSC
34	RVNL	VM-TPJ		174/200	28x18.0 m. PSC BO G	BO
			181	236/500-		
35	RVNL	VM-TPJ	197	237/000	21x18.0 m. PSC BO G	21x17.885 m. PSC U
				244/900-		1x12.19 m. PSC B
36	RVNL	VM-TPJ		245/000	1x12.19 m. PSC BOX	EX
			1107	393/900-		
37	TPJ	VM-TPJ		394/000	1x3.66 m. PSC Slab	ext as psc slab
38	TPJ	VM-TPJ	1109	395/000-100	1x4.57 m. A PSC Slab	1x4.5x2.0 m. RCB
39	CN	POY-TPJ	260	CH 128225.81	3x6.10 m. Steel G	2x9.15 m. PSC Slab
			1297			2x9.89 m. PSC TW
40	RVNL	VM-TPJ		421/400-500	2x8.7 m. PSC	BO
			2389		1x6.1+1x12.19+1x6.1	
41	TVC	QLN-TVC		219/200-300 dn	G	PSC Slab
42	CN	MV-TVR	11	2/3-4	2x7.6 m. G	2x9.14 m. PSC U
43	CN	MV-TVR	39	7/6-7	2x12.19 G	2x12.2 PSC U
44	RVNL	VM-TPJ	1310	425/600-800	6x7.78 SK PSC BOX	6x7.93 SK PSC Slab
45	CN	PUU-SCT	2114A	709/800-900	1x18.3 G	1x30 PSC BOX
46	CN	PUU-SCT	2139	716/300-500	2x18.3+9x12.2 G	Jacketting
47	CN	POY-PTJ	273	CH 135126.28	4x6.1 m. G	4x9.15 m. PSC Slab
48	CN		266	CH 131544.68	3x6.1 Steel G	2x9.15 m. PSC Slab
			1274			1x27 G. 23x21.38 P
49	CN	SRR-MAQ		881/10-882/9	16x45.72 G	G
50	PGT	SRR-NIL	144	49-400-500	2x6.10 m. G	Replace-RCC Slab
51	CN		43	Ch 22746.61	2x9.14 m. G	2x9.14 m. PSC SI
52	CN		2155	Ch 21096	1x12.2 m. RCC T	1x12.2 m. PSC U G
53	CN		31	Ch 18254.8	2x 9.14 m. slab	2x9.14 m. PSC U
54	CN		24	15/8-112	1x18.3 m.	10x18.33 m. PSC G
					Steel+9x18.3 m.	
55	CN	VM-KPD	226	94/8-9	1x6.10 m. G	1x6.0 m. RCB
56	CN	ERN-KYJ	217	74/300-400	1x12.19 m. G	1x12.2 m. PSC Slab
57	CN	ERN-KYJ	213	75/600-700	1x12.19 G	1x12.2 m. PSC Slab
58	CN	KUM-TURA	EAK 31	9/11-10/22	29x30.10 m. PSC BOX	29x29.60 m. PSC B
		CHIN-	153		G	G
59	CN	CHEN		90/7-8	4x12.19 m. G	4x11.06 m. PSC I G
		CNGR	163			
60	CN	TRVL		87/9-10	3x9.14 m. G.	3x9.15 m. PSC SL
61	TVC	NCJ-TEN	588	360/515		Extension
			150			Replace G to PSC
62	TVC	ERS-KYJ		92/000-100	3x12.2 m. G	SI
NOC						
1	TVC	VAK		218/500-600		
2	MAS	MAS-AJJ		24/500-600		
3	MAS	MSB-TBM		8/400-500		
		MAQ-				
4	PGT	PNMB		7/100-200		
5	MAS	MSB-TBM		9/200-300		
6	PGT	CLT-MAQ		669/100-200		
Other						
1	SA	CBE-MTP		19/900-20/000		4x4.00x3.50 m. Aqueduct

14B-Rehabilitation of Bridges : 2011-12

Sl. No.	Name of Work	No. of Bridges where work has been completed.	No. of Bridges where work in progress.
14.B	(a) Regirdering:	9	0
	(i) Replacement of weak/corroded girders with new girders.	0	0
	(ii) Strengthening of weak/corroded girders	6	0
	(b) Replacement of existing girders/ timber top with RCC slab.	10	0
	(c) Strengthening of sub-structure only	0	0
	(d) Repl. of exg weak/corroded girders with new girders including strengthening of sub-structure.	0	0
	(e) Rebuilding of existing weak bridges	50	38
	(f) Miscellaneous bridge works including provision of centralised bearing, renewal of bed-blocks, etc.	5	0
	Total of items (a) to (f)	80	38
14.C	Extension of existing bridges	0	0
14.D	Construction of new bridges	0	0

14 E (i) Road Over Bridges and Road Under Bridges in lieu of Level Crossings-Cost Sharing Basis :**a) Works completed**

(i) No. of bridges : 11 (Eleven)

1. ROB in lieu of LC.No. 105 @ km. 288/8-10 in between Buddiraddipati-Bommidi in JTJ-SA section.
2. ROB in lieu of LC No. 151 @ km 490/10-12 between Pothanur & Madukarai.
3. MARUDALAM
4. LC.No.33 @ km 44/28-30 between Kavarapettai-Gummidipundi stations.
5. ROB in lieu of LC No.37 @ km 49/4-6 between Gummidipoondi - Elavur.
6. ROB in lieu of L. C. No. 303 (Titte) @ km. 353/1-2 in between Titte and Thanjavur stations.
7. ROB in lieu of L.C.No.50 @ km 120/14-16 between Tiruvalam and Sevr.
8. ROB in lieu of L.C. No 88 @ km. 217/8 -10 bet Jolarpettai - Tirupatthur.
9. ROB in lieu of L.C. No118 @ km 120/7 - 8 bet Gomangalam and Pollachi.

10. ROB in lieu of LC No.69 @ Km. 84/21 & 85/1-Maduranthakam

11. ROB in lieu of LC No.541 (Mayyanad - SP.Gate) @ km. 156/ 8-9 bet Quilon and Mayyanad.

(b) Works in Progress

(i) No. of bridges : 59 (Fifty-nine)

(ii) Details

1. ROB in lieu of LC.No.1(A) @ km. VK./6- VK.7 bet Vyasarpadi Jeeva - Korrukkupet.
2. ROB in lieu of LC No. 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 @ 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 LC : 29 @ km. 30/8-9 between Akkarapatti-Ottichatram.
12. ROB in lieu of L.C.No.32B @ km.287/600-700 bet Eraniel - Nagercoil.
13. ROB in lieu of LC No.36 @ Km. 35/30-32 Vandalur - Guduvancherry (Revised).
14. ROB in lieu of LC No. 37 (Urapakkam) @ km 37/2A - 41.
15. ROB in lieu of LC No.40 @ km.40/ 2 - 4 bet Urapakkam and Guduvancheri.
16. ROB in lieu of L.C.No.54 @ km 61/3 - 4 between Chengalpattu and Thirumani.
17. ROB in lieu of LC: 63 @ km. 150/22 - 24 between Kavanur - Gudiyatham.
18. ROB in lieu of LC:69 (Valathur Yard) @ km. 163/15-17
19. ROB in lieu of LC No.82 @ Km.198/34-36 between Vaniyambadi-Kettadapatti.
20. ROB in lieu of L.C. No 86 @ km. 211/4 - 6 between Kattadapatti-Jolarpettai.
21. ROB in lieu of L.C. No 89 @ km. 218/32-219/2 bet Jolarpettai - Tirupatthur.
22. ROB in lieu of exg. LC No.95 @ km. 92/16-17 between Udumalapettai - Gomangalam.
23. ROB in lieu of exg. LC No.96 @ km. 243/20-22 between Kagankarai & Samalpatti.
24. ROB in lieu of exg. LC No.98 @ km. 247/17-19 between Samalpatti-Dasampatti.

25. ROB in lieu of LC.No. 130 @ km. 435/12-14 between Uthukuli - Tiruppur.
26. ROB in lieu of LC.No. 132 @ km. 440/26-28 between Uthukuli & Tiruppur.
27. RUB in lieu of LC:133 @ km. 441/10-12 bet Uthukuli & Tiruppur
28. ROB in lieu of LC:134 (Vanchipalayam Yard) at km. 450/13-15
29. ROB in lieu of LC No. 139 @ km. 459/30-32 in Somanur yard
30. ROB in lieu of LC No.143 @ km. 468/18 - 20 in Sular Road yard.
31. ROB in lieu of LC No.144 (Irugur yard) @ km. 475/22 - 24
32. ROB in lieu of LC. 146 km. 479/22-24 between Irugur and Pothanur.
33. ROB in lieu of LC:150 @ km. 488/30-489/2 bet Podanur - Madukkarai.
34. ROB in lieu of LC:156 @ km. 198/8-9 bet Ulundurpet & Puvanur
35. ROB in lieu of LC No.166 @ Km. 211/300 - 400 between Cuddalore port and Capper Quarry.
36. ROB in lieu of LC No. 168 @ 215/9-216/0 in between Pavanur-Vridhachalam.
37. ROB in lieu of L.C.170 @ Km.218/700-800 between Virudhachalam-Talanallur.
38. ROB in lieu of LC No.181 @ Km. 236/1-2 in between Pennadam - Mathur.
39. ROB in lieu of L.C. No. 216 (Sirkazhi) @ km. 262/600 in between Kollidam and Sirkazhi.
40. ROB in lieu of LC No.228 @ KM. 313/3-4
41. ROB in lieu of LC:248 @ km. 341/3-4 between Srirangam & Tiruchchirappalli Town.
42. ROB in lieu of L.C.No 279 @ km. 375/800-900 bet Samudram - Manapparai.
43. ROB in lieu of LC:281 @ km. 377/100 - 200 between Manapparai - Chettipatti.
44. ROB in lieu of L.C. No.309 @ km. 372/7-8 in between Budalur and Solamgampatti stations.
45. ROB in lieu of LC:325 @ Km.406/13-14 between Tiruchchirappalli-Kumaramangalam.
46. ROB in lieu of L.C. No 366 @ km. 496/16 - 497/1 between Tiruparankundram and Madurai stations.
47. ROB in lieu of L.C No.370 @ km. 500/6-7 between Madurai & Tiruparankundram.
48. ROB in lieu of LC No. 371 @ km. 501/400-500/8-9 between Tenkasi and Sengottai.
49. ROB in lieu of LC No 502 @ km: 660/ 8 - 9 between Tenkasi and Sengottai.
50. ROB in lieu of LC No. 14 (Mulankunnath Kavay yard) @ km. 23/100 - 200 between Punkunam - Mulangunathukavu.
51. ROB in lieu of LC No 49 (Sultanpet) @ Km. 53/10-11 between Pudunaganagaram and Palghat Town.
52. RUB in lieu of LC No.50 (Karukkutty) @ km. 64/200 - 300 bet Chalakkudy - Karukkutty.
53. ROB in lieu of L.C.No.54 (Korattiangadi) @ Km. 67/13-14 bet Divine Nagar - Korattiangadi.
54. ROB in lieu of LC. No. 172 (Tirur) @ km. 629/7-8 on Tirur-Tanur Road.

55. ROB in lieu of LC No 201 (West hill) @ km. 688/100 - 200 bet Elathur and Quilandi.
56. ROB in lieu of LC No. 216 (Kinatty) @ km.714/900-715/0 betw Badagara - Mukali.
57. ROB in lieu of LC No.217 (Kunjipally) @ Km. 721/400 - 500 bet Mahe - Badagara.
58. ROB in lieu of LC No.261 (Payyanur) @ km.787/15 bet Payyanur and Thrikkaripoor.
59. ROB in lieu of LC. No. 58 @ km. 111/10-12 between Puttur-Taduku stations in AJJ-RU section.

Para-14-E (ii) Road Over Bridges and Road Under Bridges on Deposit terms (NHAI) :

a) Works completed:

(i) No. of bridges : 3 (THree)

1. Add. 2 lane to the exg. ROB No. 1108 between Ponmalai and Tiruverumbur
2. Samayanallur-Solavandan (Addl. Two lane To exg. Br. No. 1449A. at km. 481/7-8.
3. Add. 2 lane to the exg. ROB No. 397A GOC Ponmalai and TPTN Ariyamangalam.

b) Works completed:

(i) No. of bridges : 3 (THree)

(ii) Details :

1. Six lane ROB in lieu of LC No. 351 at Rly. km. 429/3-4, between Kumaramangalam-Keeranur stations.
2. Two lane ROB @ Rly. km. 122/386 between Olakkur and Tindivanam.
3. ROB by the side of existing ROB No. 673 at Rly. km. 3/700-80 between Mangalore and Kankandy.

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

(a) works Completed :

(i) No. of bridges : 3 (THree)

1. ROB in lieu of LC No. 9 @ km. 15/300-400 (Kattilangadi) between Ballattol and Wedakancherry.
2. ROB in lieu of LC No. 68A (Mata Amritanandamau hospital Road) @ km. 97/800-900 in between Kalamacherry-Idapalli.
3. ROB No. 115 B between Mavelikara and Chenganur station.

(b) works in Progress :

(i) No. of bridges : 2 (Two)

(i) Details :

1. Kumbakonam Bypass (TNRSP)
2. Between Pattabiram and Nemilichery stations (Outer R.R. Road)=TN RDC.

15. Bridge Workshops (2011-12)

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	891.211	0
2.	Fabrication of Steel works - other than Girders like Foot Over Bridges, Platform Shelters, Flood Light Towers, Tanks & Steel Crib, etc.,	225	0	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	37.246	0
4.	Fabrication of Permanent Way Items like Points & Crossings, Points & Crossing Sleepers, CST9 Sleepers, Reconditioning of Bearing Plates & Fish Plates, Hook/ Anchor Bolts, Jimerow, Lifting Barriers, Winches, Push Trolleys, Dip Lorries and Motor Trolleys, etc.,	0	3472.564	0
5.	Other items like Reconditioning of Sleepers, manufacture of Skids, Beaters and other Miscellaneous items, etc.,	0	10.600	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	60
	(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	4,000
	(x) RCC slab 1'-6" x 1'-6" x 0-4"	0	0	16,250
	(xi) CC paver block for LC's	0	0	5300
	(xii) CC KM Post	0	0	2,400
Total		225	4,411.621	28,010

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 2011-2012.

(a) **Through Renewals :** (Fig. in Track Kilometres)

Gauge	Primary		Secondary	
	Through Rail Renewal	Through Sleeper Renewal	Through Rail Renewal	Through Sleeper Renewal
Broad	209.73	64.12	38.35	28.71
Metre	0.00	0.00	12.82	12.82
Total	209.73	64.12	38.35	28.71

(b) **Casual Renewals :**

Gauge	Rails (in km.)		Sleepers (Numbers)		
	Wood	Metal	Concrete	Total	
Broad	10	105	12	29487	29604
Metre	0.00	330	270	864	1464
Total	10	435	282	30351	31068

(c) Points and Crossings Renewals :

Gauge					1 in 16	1 in 12	1 in 8-1/2	Traps	(in Nos.) Total
Broad	..	..	..	..	2	40	127	67	236
Metre	..	..	..	..	0	0	0	0	0
Total	..	..	..	..	2	40	127	67	236

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

Gauge					No. of Sleepers				
Broad + Metre..	..	..	..	..	804				

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

Gauge					Steel layouts Under points and Crossings					(in sets)
Broad Gauge					Metre Gauge					Total
185.75					0					185.75

(f) Ballast put into the track during 2011-12 (in Thousands of cu.mts.)

Total Ballast collection during the year : 514.85 Total Ballast Inserted during the year : 435.92

16.2—Track Materials used during the year 2011-12. The permanent way materials used during the year 2011-12 at the time of track renewals (excluding casual renewals).**(a) Rails**

Gauge					60 kgs.	52 kgs.	90 lbs.	75 lbs.	60 lbs.	50 lbs.	Total
Broad	..	..	..	..	89.76	158.32	0.00	0.00	0.00	0.00	248.08
Metre	..	..	..	..	0.00	0.00	6.24	0.00	6.58	0.00	0.00
Total	..	..	..	..	89.76	158.32	0.00	0.00	0.00	0.00	248.08

(b) Sleepers

Gauge					Concrete	Steel	CST-9	Wooden	others	Total
Broad	..	..	..	..	92.83	0.00	0.00	0.00	0.00	92.83
Metre	..	..	..	..	6.24	6.58	0.00	0.00	0.00	12.82
Total	..	..	..	..	92.83	0.00	0.00	0.00	0.00	92.83

(c) Composite wooden blocks and converted sleepers

Gauge					Composite Nos.	Wooden Blocks In Nos.	Converted steel through Sleepers Nos.	Total
Broad	..	..	..	..	0	503	0	503
Metre	..	..	..	..	0	0	0	0
Total	..	..	..	..	0	503	0	503

16.3—Materials in the track 2011-12—(Running Track) :**(a) Rails**

Gauge	60 Kg.	52 kg.	90 lbs.	75 lbs	60 lbs.	50 lbs.	others	Total
BG	1084	4829	35					5948
MG	0	13	132	280	309	10	22	766
Total	1084	4842	167	280	309	10	22	6714

(b) Sleepers

Gauge	Concrete	Steel	CST-9	Wooden	Others	Total
Broad	5905	18	24	1		5948
Metre	20	66	588	70	22	766
Total	5925	84	612	71	22	6714

(c) Turnouts

(in Nos.)

	1 : 16		1 : 12		1 : 8.5		1 : 6	Total	
	BG	MG	BG	MG	BG	MG	BG	BG	MG
Wooden ..	0	0	0	4	2	28	18	2	50
Steel ..	0	0	0	0	2	4	0	2	4
Concrete ..	69	0	2472		936	0	0	3477	0
Total ..	69	0	2472	4	940	32	18	3481	54

16.4.-Welding of Rail Joints :

(a) **New Track Welded :** Total length of track on which rail joints was done during the year 2011-12.

(Figures in Nos.)

Gauge	Total No. of Joints welded
Broad + Metre	22,786

(b) Total Welded Track :

Total length of welded track as on 31st March 2012

(Figures in Track Kms.)

Gauge	Short Welded Panels	Long Welded Rails/Continuous Welded Rails	Total
Broad ..	822	5068	5890
Metre ..	493	28	521
Total ..	1315	5096	6411

(c) Flash Butt Welding Plant :

The work done at the Flash Butt Welding Plant in the Railway 2011-12.

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	14,155	8,514	0	0	22,669	235.35	3,860

16.5-Speed Restriction :

(a) Speed Restrictions in force on 31st March 2012 due to poor condition of track :-

(in Kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2012	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
31-3-2012	333.33	0.00	333.33

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

(in kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2012	8.93	0.00	8.93

17. Block Renewals

Renewals of the following track kilometres were carried during 2010-12 :-

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

Division	Broad Gauge	Metre Gauge
Chennai ..	87.81	0.00
Salem ..	37.96	12.82
Palghat ..	21.03	0.00
Trivandrum ..	38.69	0.00
Tiruchchirappalli ..	10.62	0.00
Madurai ..	51.97	0.00
Total ..	248.08	0.00

(ii) Through sleeper renewals (Primary & Secondary)

Division	Broad Gauge	Metre Gauge
Chennai ..	56.06	0.00
Salem ..	18.92	0.00
Palghat ..	1.56	0.00
Trivandrum ..	16.29	0.00
Tiruchchirappalli ..	0.00	0.00
Madurai ..	0.00	0.00
Total ..	92.83	0.00

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

Sl. No.	Division	Station-Section particulars	Approximate cost of damages (₹ in Lakhs)
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1. MAS	Nil		
2. SA	Nil		
3. PGT	Nil		
4. TVC	Nil		
5. TPJ		(a) Repairs to roof of quarters with refitment of tiles and walls.	21.00
		(b) Repairs to bath rooms, toilet roof and flooring and walls.	11.93
		(c) Repairs to road work in colonies	8.00
		(d) Repairs to doors & windows	43.50
		(e) Repairs to pipe lines	14.80
		(f) Providing precast CC slabs	0.10
		(g) Platform shelter roof repairs	30.00
		(h) Warning Boards & Sign boards	4.10
		(i) LC Booms & Winches	15.84
		(j) Pale fencing	49.35
		(k) FOB repairs & Roofing	6.74
		(l) Modular toilet	3.30
		(m) Platform repairs	41.00

6. MDU Nil

7. CNMS Nil

8. MTP Nil

19. Staff Amenities

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
(II) Improvements to Water supply.				
(A) Works Completed :—				
<i>(i) Works costing more than ₹ 5 lakhs each.—</i>				
1.	MAS	—		
2.	SA	—		
3.	PGT	—		
4.	TVC	—		
5.	TPJ	—		
6.	MDU	—		
7.	CE/CN/MS	—		
8.	MTP	—		
<i>(ii) Works Costing less than ₹ 5 lakhs.</i>				
1.	MAS	WST	Supply of water.	3.00
2.	SA	—		
3.	PGT	CAN	Repairs to pipe line.	3.26
		CAN	Repairs to protection wall of colony well.	2.31
		CAN	Desalting well.	0.52
4.	TVC	—		
5.	TPJ	—		
6.	MDU	—		
7.	CE/CN/MS	—		
8.	MTP	—		
(B) Works in Progress.				
<i>i) Works costing more than ₹ 5 lakhs each.</i>				
1.	MAS	MAS	Supply of drinking water at MAS	51.08
		ENR	Supply of drinking water.	11.00
		PER	PER & PT colony repairs to water supply arrangements.	36.92
		ADE/II/Bldgs.	Clearing of GLRs at ADEN/II/B jurisdiction for a period of five year.	8.79
		PER	Improvement of water supply arrangements approach road to main building at GSD/PER, alinsily cannal, COS/PER., CAO & PWQ.	32.43
		PER	Renewal of corroded pipe line at block PER/346, PER/347, PER/348, PER/356 at PER/PT Colony.	7.96
2.	SA		ADEN/KRR sub division - Replacement of corroded pipe line and improvements to savage system of various station.	21.20
		CBE	Proposed RCC OHT new pipe line for supplying purified drinking water through treatment system, new bore well GLR with replant.	111.37
		PTJ	Construction of OHT 90000 litres capacity replacement of pipe line in 20 block area and provision of individual storage water tank at 400 Nos. at Staff quarters.	104.05
3.	PGT	CLT & CAN	Improvement to water supply arrangement	8.30
		CLT & CAN	Construcion of overhead tank	47.56
4.	TVC	ALLP	Repairs to water hydrants	9.33
		Emakulam	Emakulam Coaching Complex - Watering arrangements by laying 200 mm dia pipe from Muvatupuzha river near Pirvam Road station.	806.00
5.	TPJ	NGT&NCR	Augumentation of water supply.	15.00
6.	MDU	TEN	Re-construction of RCC OHT 90000 litres capacity at Jawaharlal Colony.	17.23
			DG - Construction of RCC tank including renewal of existing pipe lines at Hanumantha Nagar colony.	99.00
			MPA & PDKT - Construction of RCC tank 90000 in corroded tank.	13.14
7.	CE/CN/MS	—		
8.	MTP	—		

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
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Works in Progress

(ii) Works costing Less than ₹ 5 lakhs.

1.	MAS		Supply of drinking water and renewal of corroded pipe lines at NGO building.	3.00
2.	SA	—		
3.	PGT	—		
4.	TVC	—		
5.	TPJ	—		
6.	MDU	—		
7.	CE/CN/MS	—		
8.	MTP	—		

(II) Improvements to sanitation.

(A) Works Completed.

(i) Works costing more than ₹ 5 lakhs.

1.	MAS	—		
2.	SA	PTJ	Cleaning and maintenance of sewer lines in SE/Works/PTJ section.	37.87
3.	PGT			
4.	TVC			
5.	TPJ		TPJ - Proposal additional pumping main from pump house near subway to crawford reatment plant.	72.00
6.	MDU	—		
7.	CE/CN/MS	—		
8.	MTP	—		

(ii) Works Costing less than ₹ 5 lakhs.

1.	MAS		Improvement of sanitation at WST & RPM.	2.00
2.	SA	—		
3.	PGT	TLY & CAN	Cleaning sewage pipe line.	1.89
		CLT	Repairs to septic tank.	0.82
		TLY & CAN	Repairs to damaged inspection chamber of Quarters.	0.36
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Nil	
7.	CN/MS		Nil	
8.	MTP		Nil	

B. Work in Progress

(i) Works costing more than ₹ 5 lakhs.

1.	MAS	NGO/MAS	Construction of Toilet at HQ	5.44
		PER	Cleaning and maintenance of existing sewer lines at PER. PT & PWD colonies and RH/PER for the period of two years.	31.56
		SPE	Improvement to drainage arrangements PON, GPD & MTR.	86.00
2.	SA	ADEN/KRR	Improvements to drainage arrangements	30.00
		Sub Divn.		
3.	PGT	CLT & CAN	Improvements to water supply arrangement.	8.30
		CLT & CAN	Construction of over head tank.	47.56
4.	TVC		Improvements to drainage arrangements at Poojappura, Thampanoor and Pettah colonies.	179.39

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
5.	TPJ	TPJ	Provision of toilet facilities for GKs to 42 manned LCs.	36.00
		VRI	Proposed renovation of toilets and bath rooms by providing tiles. Re-roofing etc., under Corporate Welfare plan (id. 1369/08-09)	47.00
		TPJ	Improvements in TPJ colony rear side of RKM, BRI, SI, SRM, ADEN/N Office..	26.00
		TPJ	Improvements to yard drainage with collection well and pumping arrangements at MDU end. Renewal of carriage side filling hydrants for road No. 1, 2, 3, and provision of dedicated water main for station as per works manual (id. 1702).	49.00
6.	MDU	-		
7.	CE/CN/MS	-		
8.	MTP	-		

(ii) Works costing Less than ₹ 5 lakhs.

1.	MAS	-		
2.	SA	-		
3.	PGT	MAJN	Improvement to Running rooms toilet.	4.00
4.	TVC	-		
5.	TPJ	-		
6.	MDU	-		
7.	CE/CN/MS	-		
8.	MTP	-		

(III) Other Staff Amenity work

A. Works completed.

(i) Works costing more than ₹ 5 lakhs.

1.	MAS	-		
2.	SA	-		
3.	PGT	MAQ	Rest room for TTEs with 20 beds and modern facilities.	59.95
		MAQ	Construction of Officers Rest House	14.98
4.	TVC	-	Rest room for track machine staff	12.49
5.	TPJ	CDM	Reconstruction of Staff Quarters Type II 4 units (30/A.B&31/A,B).d.1411/07-08.	24.00
		TPJ Fort	Type II 24 units in lieu of Qrs. No.32A-B to 34.A.B. (id.1219/08-09)	116.00
		Cuddalore .	Reconstruction of staff quarters Type II 4 units in lieu of 20/A-D	24.00
		Port Jn		
		NGT	Reconstruction of staff Quarters on age cum condition basis at NGT colony Type II - Five units 13 A-C, 14 A.B.	28.00
		PDY	Reconstruction of Staff Quarters Type II - 6 units in lieu of Quarters No.25, 27 A-C, 33A & B.	27.00
		TPJ Dn.	Replacement of Staff Quarters at KMU Colony Type IV one unit (No.28) and NMJ Colony Type II 2 (Units) (No.5 A&B)	33.00
6.	MDU	-		
7.	CE/CN/MS	-		
8.	MTP	-		

(ii) Works costing Less than ₹ 5 lakhs.

a)	MAS	-		
b)	SA	-		
c)	PGT		Improvement to Railway Sports ground	4.49
d)	TVC	-		
e)	TPJ	-		
f)	MDU	-		
g)	CE/CN/MS	-		
h)	MTP	-		

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
B. Works in Progress				
<i>(i) Works costing more than ₹ 5 lakhs.</i>				
1.	MAS	NGO/MAS	Staff amenities works. Improvements to Toilet, Office premises etc.	206.74
		ENR	Re-construction of Staff Quarters Type II 24 units at PON.	272.00
		MAS	Repairs and maintenance of Staff Quarters etc.	89.00
		AVD	Construction of RPE Room and crew booking room.	15.47
		AVD	Brightening of staff quarters.	37.16
2.	SA	ADEN/	Construction of Staff Quarters Type II 2 units for GKs at KMD station.	25.75
		KRR Sub		
		PTJ	Reconstruction of type IV Quarters in lieu of Quarters No.22, 74 & 28A.	44.39
3.	PGT	NLE, PAY,	Rebuilding of staff Quarters Type II	84.24
		CHV & ULL		
		PGT	Re-roofing with RCC slabs and repairs to doors and windows 20 units.	33.00
		PGT	Brightening up of service building Staff Welfare Building and DRM office.	26.00
		PGT	Leak proofing of flat roof of Staff Quarters.	21.00
		PTJ & FK	Proposed toilets at gate lodges of LCs.	18.00
		PGT	Proposed improvements to seating arrangements to MES.	15.00
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	VM	Improvements 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 road in Kallukuzhi colony, Crawford colony, TPGY colony & Karumandapam colony (i.d.1284/09-10) CE/OL.	70.00
		GOC	Retiling with steel members in South D2 Block and improvements to DSL colony	45.00
		VM (North & South)	Improvements to Quarters, Colony roads, watering and drainage arrangements	425.00
6.	MDU	MDU	Improvements to kitchen, toilet & bathroom of type I Qrs. in C area.	50.00
			TN - Renewal of perished doors windows in type I staff quarters and renewal of heavily corroded pipe line in colony Health unit area.	60.00
			MMM - Corporate Welfare Plan - Reconstruction of new Community Hall	59.22
7.	CE/CN/MS	-		
8.	MTP	-		
<i>(ii) Works costing Less than ₹ 5 lakhs.</i>				
1.	MAS		Repair to staff quarters & road at WST & RPM hospitals and health units	3.00
2.	SA			
3.	PGT	CLT	Repairs to colony road	3.94
		CLT	White washing and colour washing of staff quarters	1.49
		CLT	White washing railway institute	0.33
		CLT	Repairs to covering slab of drain near railway school.	0.69
		QLD	Repairs to NPM shelter	1.38
		TLY	Repairs to doors and windows of quarters	0.87
		MHE	Brightening of staff quarters.	1.17
		CAN	Repairs to NPM shelter	0.48
		CAN	Repairs to colony boundary wall	2.36
		CAN	Repairs to quarters	2.11
		CAN	Repairs to dust bin in colony	0.38
		CS	Repairs to gang rest room	0.30
		CAN	Filling low level area in colony	1.12
		CAN	Painting of staff quarters	4.30
		CAN	Repairs to colony road	2.68
		KPQ	Repairs to quarters boundary wall	3.55
4.	TVC	-		
5.	TPJ	-		
6.	MDU	-		
7.	CE/CN/MS	-		
8.	MTP	-		

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
(IV) Hospital and Health units				
(A) Works completed				
<i>(i) Works costing more than ₹ 5 lakhs</i>				
1.	MAS	—		
2.	SA	—		
3.	PGT	CAN	Repairs to leaky roof health unit	0.04
		CAN	Repairs to Ayurveds dispensary	0.64
4.	TVC	—		
5.	TPJ	—		
6.	MDU	—		
7.	CE/CN/MS	—		
8.	MTP	—		
(B) Works in Progress.				
<i>(i) Works costing more than ₹ 5 lakhs.</i>				
1.	MAS		Maintenance all buildings rooms in Railway hospital and new joint office.	33.07
2.	SA	—		
3.	PGT	—		
4.	TVC	Trivandrum pettah	Provision of ICU space near operation theatre (four bed)	09.09
			Repairs to Railway hospital building and premises	77.98
5.	TPJ	—	Ponmalai-Construction of male, female medical ward & children ward	309.00
6.	MDU	—		
7.	CE/CN/MS	—		
8.	MTP	—		
<i>(i) Works costing less than ₹ 5 lakhs</i>				
1.	MAS	—		
2.	SA	—		
3.	PGT	—		
4.	TVC	—		
5.	TPJ	—		
6.	MDU	—		
7.	CE/CN/MS	—		
8.	MTP	—		
(V) SCHOOLS AND HOSTELS				
(A) Works Completed.				
<i>(i) Works costing more than ₹ 5 lakhs</i>				
1.	MAS	—		
2.	SA	—		
3.	PGT	—		
4.	TVC	Nagercoil	Subordinates rest room in first floor at station building.	09.09
5.	TPJ	—	ZRTI-TPJ-Construction of bathroom and toilets and hostel No. 2 triburcation of hall No. 6 and bifurcation of hall No. 5.	22.00
6.	MDU	—		
7.	CE/CN/MS	—		
8.	MTP	—		
<i>(ii) Works costing less than ₹ 5 lakhs</i>				
1.	MAS	—		
2.	SA	—		
3.	PGT	CAN	Repairs Railway school building	1.88
4.	TVC	—		
5.	TPJ	—		
6.	MDU	—		
7.	CE/CN/MS	—		
8.	MTP	—		

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
(B) Works in progress				
<i>(i) Works costing more than ₹ 5 lakhs</i>				
1.	MAS	PER	Zone C2 PER-Maintenance of all building & road in PER colony. RMHS School, Railway Institute, Railway stadium GSD & quarters.	55.86
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Nil	
7.	CE/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.	CE/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.	CE/CN/MS		Nil	
8.	MTP		Nil	
<i>(ii) Works costing less than ₹ 5 lakhs</i>				
1.	MAS		Nil	
2.	SA		Nil	
3.	PGT	CLT CAN	White washing and colour washing Repairs to Running Bungalow	1.14 1.46
4.	TVC		Nil	
5.	TPJ		Nil	
6.	MDU		Nil	
7.	CE/CN/MS		Nil	
8.	MTP		Nil	
Works in Progress				
<i>(i) Works costing more than ₹ 5 lakhs.</i>				
1.	MAS		Nil	
2.	SA		Nil	
3.	PGT		Nil	
4.	TVC	NCJ TVC	Construction of new running room. Improvements to hot water arrangements in the running room Improvements to ventilation & lighting arrangements in the running Bungalows & rest houses.	57.00 10.00 9.90
5.	TPJ	VM	Combined running room (Id.1260/08-09) CE/OL	158.00
6.	MDU		Nil	
7.	CE/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	NR		
2.	SA	NR		
3.	PGT	NR		
4.	TVC	NR		
5.	TPJ	NR		
6.	MDU	NR		
7.	CE/CN/MS	NR		
8.	MTP	NR		
VII) Miscellaneous Works				
(A) Works Completed				
<i>(i). Works costing more than ₹ 5 lakhs.</i>				
1.	MAS	ENR	Extension of PF at AIPP, AIP NYP, MJR, borewell at LC PON & SPE	59.43
		GDR	Miscellaneous work repair and maintenance of road staff quarters etc.	25.75
		AVD	Wheel repair shed	28.79
2.	SA	—		
3.	PGT	—	Conversion of TRD office into DFM office.	15.00
4.	TVC	—		
5.	TPJ	—		
6.	MDU	—		
7.	CE/CN/MS	—		
8.	MTP	—		
<i>(ii). Works costing less than ₹ 5 lakh.</i>				
1.	MAS	—		
2.	SA	—		
3.	PGT	WH	Repairs to approach road	01.64
		WH	Repairs to retaining wall near LG	00.53
		TLY	Brightening of station building	03.83
		MHE	PF shelter brightening	00.53
		CAN	Second entry approach road	00.53
		CAN sub divn	Repairs to standard name boards	00.22
		VAPM	Repairs to PF surface	03.14
		KPQ	Repairs to circulating area	1.51
		KPQ	Approach road	02.78
		CAN	Painting of PF shelter	03.37
		CAN	Brightening of station building	01.59
		KPQ	Repairs to waiting hall	00.50
		KPQ	Repairs to circulating area	01.85
4.	TVC	—		
5.	TPJ	—		
6.	MDU	—		
7.	CE/CN/MS	—		
8.	MTP	—		
(B) Works in Progress				
<i>(i) Works costing more than ₹ 5 lakhs.</i>				
1.	MAS	ENR	MAS-GDR SW-I Improvement of drainage arrangement at PON GPD, Colonies, SW-II Construction of SE/W/Room building at ENR, Renovate of Staff Quarters, roof replaced at ENR. SW-II Imp. of water pipe line at NYP, SW-IV Repair of Staff Quarters at MJR & PON, SW-V savage arrangement at PON, SW-VI Hand bore well at manned LCs at SPE & GDR.	85.54

Staff Amenities—(Concl.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
		PER	PER & PT colony repairs to existing from and back doors at Staff Quarters I to XII Street.	105.00
		PER	Zone - C2 PER maintenance of all buildings & roads in PER colony. RMHSS school Railway Institute, Railway stadium GSD & Qrs.	55.86
		PER	Zone - 5 PER maintenance of all buildings & roads, Electricals and S&T workshop at PER.	6.24
		SPE	MAS-GDR repair and paving of PF at AIPP, AIP, MPKM, MJR, KVP, GPD & Box roof of RPM staff.	5.00
		RH/PER	NJO/PER Imp. of water supply system 2 years NJO/PER Imp. of staff canteen. Cleaning GLR at Chennai ADEN/Bldgs/Jurisdiction.	5.00 8.79
2.	SA	—		
3.	PGT	—		
4.	TVC	ERS	Construction of Railway Institute	9.9
			Improvement to Thampanoor Railway Institute	9.9
			Ernakulam - Construction of Railway Institute cum Women's Welfare Organisation.	9.9
			TVC Dn. Replacement of age old ceiling fans/Provision of additional fans.	27.00
			TVC Improvement to Control office.	17.74
5.	TPJ		Improvements to office accommodation in Accounts Branch in Divisional Office Complex.	30.00
			TPJ - Improvements to heritage centre buildings.	93.00
6.	MDU	—		
7.	CE/CNMS	—		
8.	MTP	—		
(ii). Works costing less than ₹ 5 lakh.				
1.	MAS		RH/PER Maintenance of different treatment rooms for a period of 2 years.	4.32
2.	SA	—		
3.	PGT	—		
4.	TVC	—		
5.	TPJ	—		
6.	MDU	—		
7.	CE/CNMS	—		
8.	MTP	—		

20. Level Crossing

1. No. of level crossing category-wise (As on 31-3-2012)		3. No. of level crossings where additional men were provided without upgrading during 2011-12.	Nil
Special Class	424		
'A' Class	175	4. No. of level crossings upgraded during 2011-12	63
'B' Class	71		
'C' Class	1008	5. No. of level crossings provided with Lifting Barriers during 2010-11.	14
'C' Class unmanned	1108	a) Inter-locked level crossings.	8
Canal Crossing	9	b) Non-interlocked level crossings.	6
Total	2795	Total	14
2. No. of level crossings manned during 2011-12		6. No. of level crossings where traffic census was taken in 2011-12 and action taken in such cases.	Nil
a) Accident prone from ACSPF(b)/DF4/Safety Fund	37	7. No. of level crossings downgraded during 2011-12	Nil
b) From Railway Safety Works (20% segment)	Nil	8. No. of level crossings De-manned/Closed during 2011-12.	118
c) At State Government's Cost (Reimbursable From 80% Segment of RSWF)	Nil		
d) Others (MPLADS)	Nil		
Total	37		

21. Statistics of Rail Usage

(a) Rail renewal carried over on various sections during the year 2011-2012

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
BROAD GAUGE							
ROUTE-'A'							
Chennai Central-Gudur	UP	2009-10	27.03	52 kg	60 kg	19.23	
Chennai Central-Gudur	UP	2009-10	1.10	60 kg	60 kg	1.10	
Chennai Central-Gudur	UP	2010-11	7.00	52 kg	60 kg	6.30	
Chennai Central-Gudur	UP	2010-11	5.85	52 kg	60 kg	5.85	
Chennai Central-Gudur	UP/DN	2008-09	4.33	52 kg	60 kg	0.83	
Chennai Central-Gudur	UP	2011-12	21.00	52 kg	60 kg	4.60	
ROUTE-'B'							
Chennai Central-Arakkonam	UP/DN	2011-12	12.13	60 kg	60 kg	9.35	
Chennai Central-Arakkonam	Yard	2005-06	2.50	90R/90BH	52 kg II	1.30	
Chennai Central-Arakkonam	Yard	2006-07	0.60	52 kg II	52 kg II	0.60	
Chennai Central-Arakkonam	Yard	2007-08	10.59	90R II	52 kg II	1.96	
Chennai Central-Arakkonam	Yard	2004-05	1.00	52 kg/90R	52 kg II	0.60	
Arakkonam - Jolarpettai	UP	2009-10	6.80	60 kg	60 kg	1.22	
Arakkonam - Jolarpettai	UP	2010-11	20.62	60 kg	60 kg	2.00	
Arakkonam - Jolarpettai	UP/DN	2010-11	4.26	52 kg	60 kg	3.76	
Arakkonam - Jolarpettai	UP/DN	2010-11	0.99	52 kg	52 kg	0.99	
Arakkonam - Jolarpettai	DN	2010-11	0.90	52 kg	52 kg	0.90	
Arakkonam - Jolarpettai	Yard	2010-11	5.90	90R	52 kg II	2.35	
Arakkonam - Jolarpettai	Yard	2008-09	8.00	90R	52 kg II	3.61	
Arakkonam - Renigunta	UP/DN	2009-10	12.59	52 kg	60 kg	0.40	
Chennai Beach - Chennai Egmore	Main line	2009-10	0.55	52kg	60 kg	0.55	
Chennai Egmore - Villupuram	A & B lines	2009-10	1.00	90 R	52 kg	1.00	
Chennai Egmore - Villupuram	A & B lines	2009-10	0.60	90 R	52 kg	0.60	
Chennai Egmore - Villupuram	SL	2011-12	16.95	52 kg	52 kg	16.95	
Chennai Egmore - Villupuram	SL	2010-11	1.20	52 kg	52 kg	0.81	
Jolarpettai - Erode	UP	2011-12	18.13	52 kg	60 kg	17.60	
Jolarpettai - Erode	UP	2010-11	6.35	52 kg	52 kg	0.30	
Jolarpettai - Erode	DN	2011-12	7.00	60 kg	60 kg	6.66	
Jolarpettai - Erode	DN	2011-12	0.90	60 kg	60 kg	0.90	
Jolarpettai - Erode	DN	2011-12	0.90	60 kg	60 kg	0.90	
Jolarpettai - Erode	DN	2011-12	0.60	60 kg	60 kg	0.90	
Jolarpettai - Erode	UP/DN	2010-11	0.95	52 kg	52 kg	0.95	
Jolarpettai - Erode	Yard	2010-11	0.40	90R II	52 kg II	0.40	
Erode - Irugur	Yard	2010-11	2.70	90R	52 kg II	1.04	
Erode - Irugur	Yard	2008-09	4.00	90R	52 kg II	0.24	
Irugur - Coimbatore - Podanur	SL	2011-12	0.90	52 kg	52 kg	0.75	
Erode - Irugur - Podanur	DN Yard	2011-12	4.58	52 kg	52 kg	1.49	
Irugur - Coimbatore - Podanur	Yard	2010-11	2.83	90R	52 kg II	0.82	
Podanur - Shoranur	UP/DN	2011-12	4.10	52 kg	52 kg	4.10	
Podanur - Shoranur	Yard	2010-11	2.45	80 BH	52 kg II	2.45	
Podanur - Shoranur	Yard	2010-11	5.44	90R	52 kg II	5.44	
Ernakulam - Ernakulam Town	Yard	2007-08	1.00	90R	52 kg II	1.00	
Shoranur - Ernakulam	DN	2005-06	28.98	52 kg	52 kg	0.61	
Shoranur - Ernakulam	UP/DN	2010-11	3.23	52 kg	52 kg	1.20	
Shoranur - Ernakulam	UP/DN	2011-12	10.12	52 kg	52 kg	9.66	
Shoranur - Ernakulam	Yard	2007-08	6.32	90R	52 kg II	1.29	
Shoranur - Ernakulam	Yard	2008-09	8.33	90R	52 kg II	1.05	
Villupuram - Tiruchchirappalli(Chord)	SL	2011-12	18.60	52 kg	52 kg	10.62	

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-'D' Special							
—Nil—							
ROUTE-'D'							
Erode - Tiruchchirappalli	Yard	2010-11	1.00	52 kg	52 kg	0.50	
Erode - Tiruchchirappalli	Yard	2010-11	5.40	90R	52 kg II	2.00	
Shoranur - Mangalore	SL	2011-12	1.00	52 kg	52 kg	1.00	
Shoranur - Mangalore	Yard	2010-11	11.13	90R	52 kg II	7.66	
Ernakulam-Thiruvananthapuram Central	Yard	2007-08	2.05	90R	52 kg II	0.25	
Ernakulam-Thiruvananthapuram Central	Yard	2003-04	18.44	90R	52 kg II	5.56	
Kollam - Thiruvananthapuram Central	UP/DN/SL	2010-11	5.88	52 kg	52 kg	0.66	
Ernakulam - Kayankulam	SL	2011-12	2.38	52 kg	52 kg	1.39	
Kayankulam - Kollam	UP/DN	2010-11	1.09	52 kg	52 kg	0.64	
Kayankulam - Kollam	UP/DN	2011-12	8.90	52 kg	52 kg	6.81	
Ernakulam - Alappuzha - Kayankulam	SL	2006-07	0.52	52 kg	52 kg	0.25	
Madurai-Virudunagar-Vanchi Maniyachchi	SL	2011-12	44.78	52 kg	52 kg	36.78	
Virudunagar - Vanchi Maniyachchi	SL	2011-12	12.32	52 kg	52 kg	9.89	
Virudunagar - Vanchi Maniyachchi	SL	2011-12	9.15	52 kg	52 kg	5.30	

ROUTE - E Special

—Nil—

ROUTE-E

Korukkupet - Washermanpet	UP/DN	2008-09	1.90	52 kg	60 kg	0.95	
Salem - Vriddhachalam	Yard	2010-11	3.49	90 R II	52 kg II	2.51	
Shoranur - Nilambur Road	SL	2011-12	0.80	90 R II	52 kg	0.80	
Shoranur - Nilambur Road	SL	2011-12	7.52	90 R II	52 kg	1.29	
Shoranur - Nilambur Road	SL	2011-12	1.20	90 R II	52 kg	1.20	
Shoranur - Nilambur Road	SL	2011-12	1.20	90 R II	52 kg	1.20	
Shoranur - Nilambur Road	SL	2011-12	1.04	90 R II	52 kg	1.00	
Thrisur - Guruvayur	SL	2008-09	1.66	52 kg	52 kg	1.66	
Thrisur - Guruvayur	SL	2010-11	9.32	90 R II	60 kg	6.66	
Villupuram - Puducherry	SL	2009-10	15.37	52 kg II	60 kg	15.37	

METER GAUGE

—Nil—

21. (b) Average traffic in Gross Tonnes per running track kilometrage carried over on various sections during the year 2011-2012

<i>(in millions)</i>	
Section	GMT carried during 2011-12
(1)	(2)
Broad Gauge	
Group-A	
Chennai Central - Gummidipundi (UP)	20.52
Gummidipundi - Sullurupeta (UP)	16.36
Sullurupeta - Gudur (UP)	14.65
Chennai Central - Gummidipundi (DN)	28.34
Gummidipundi - Sullurupeta (DN)	24.19
Sullurupeta - Gudur (DN)	22.47
Group-B	
Chennai Central - Tiruvallur (UP) FAST	25.22
Chennai Central - Tiruvallur (DN) FAST	41.22
Chennai Central - Tiruvallur (UP) SLOW	15.11
Chennai Central - Tiruvallur (DN) SLOW	15.11
Tiruvallur - Arakkonam (UP)	30.55
Tiruvallur - Arakkonam (DN)	46.55

<i>(in millions)</i>	
Section	GMT carried during 2011-12
(1)	(2)
Group-B—(Contd.)	
Arakkonam - Katpadi (UP)	28.45
Arakkonam - Katpadi (DN)	44.19
Katpadi - Jolarpettai (UP)	28.32
Katpadi - Jolarpettai (DN)	44.06
Arakkonam - Tiruttani (UP)	23.88
Arakkonam - Tiruttani (DN)	27.45
Tiruttani - Renigunta (UP)	21.90
Tiruttani - Renigunta (DN)	25.48
Jolarpettai - Salem (UP)	22.88
Jolarpettai - Salem (DN)	34.51
Salem - Erode (UP)	24.58
Salem - Erode (DN)	29.99
Erode - Irugur (UP)	22.31
Erode - Irugur (DN)	25.84
Irugur - Coimbatore - Podanur (SL)	25.84
Irugur - Podanur (SL)	22.31

(in millions)	
Section	GMT carried during 2011-12
(1)	(2)
GROUP-B—(Concd.)	
Podanur - Palakkad (UP)	16.86
Podanur - Palakkad (DN)	22.52
Palakkad - Shoranur (UP)	17.58
Palakkad - Shoranur (DN)	21.80
Shoranur - Ernakulam (UP)	18.56
Shoranur - Ernakulam (DN)	20.62
Chennai Beach - Tambaram (UP) Suburban	22.52
Chennai Beach - Tambaram (DN) Suburban	22.52
Tambaram - Chengalpattu (UP) Suburban	7.38
Tambaram - Chengalpattu (DN) Suburban	7.38
Chennai Beach - Chengalpattu	22.65
Chengalpattu - Melmaruvathur	22.92
Melmaruvathur - Villupuram	22.92
Villupuram - Tiruchchirappalli (Chord)	19.08
Tiruchchirappalli - Dindigul	13.65
Group - C	
Chennai Beach - Velachery (UP)	7.54
Chennai Beach - Velachery (DN)	7.54
Group-D Special	
- Nil -	
Group-D	
Erode - Tiruchchirappalli Fort	15.62
Ernakulam - Kottayam - Kayankulam	20.71
Kayankulam - Kollam (UP)	13.02
Kayankulam - Kollam (DN)	7.69
Kollam - Thiruvananthapuram Central (UP)	12.88
Kollam - Thiruvananthapuram Central (DN)	12.17
Ernakulam - Alappuzha	13.89
Alappuzha - Kayankulam	11.58
Shoranur - Kozhikode (DN)	13.60
Shoranur - Kozhikode (UP)	14.62
Kozhikode - Kannur (DN)	12.94
Kozhikode - Kannur (UP)	12.17
Kannur - Mangalore (DN)	11.92
Kannur - Mangalore (UP)	9.85
Mangalore - Thokkur	6.31
Karur - Dindigul	8.33
Dindigul - Madurai (UP)	11.60
Dindigul - Madurai (DN)	10.12
Madurai - Virudunagar	16.69
Virudunagar - Vanchi Maniyachchi	16.69
Virudunagar - Tenkasi	2.97
Madurai - Manamadurai	1.80
Manamadurai - Rameswaram	4.14
Tirunelveli - Tiruchendur	2.33
Tirunelveli - Vanchi Maniyachchi	11.76
Nagarcoil - Tirunelveli	9.45
Villupuram - Vellore Cantonment	3.05
Vellore Cantonment - Katpadi	3.32
Villupuram - Mayiladuthurai	7.81
Mayiladuthurai - Kumbakonam	13.49
Kumbakonam - Thanjavur	13.49
Thanjavur - Tiruchchirappalli	13.49
Tiruchchirappalli - Karaikkudi - Manamadurai	2.77

(in millions)	
Section	GMT carried during 2011-12
(1)	(2)
Group-E Special	
- Nil -	
Group-E	
Walajah Road - Ranipet	—
Salem - Mettur Dam	21.19
Tiruchchirappalli Fort - Tiruchchirappalli Jn.	11.89
Coimbatore - Mettupalaiyam	2.50
Palakkad - Palakkad Town	1.39
Shoranur - Nilambur Road	3.33
Ernakulam - Kochi Harbour Terminus	—
Thiruvananthapuram Central - Nagercoil	9.16
Nagercoil - Kanniyakumari	9.16
Vanchi Maniyachchi - Tuticorin	6.26
Thrisur - Guruvayur	3.90
Chengalpattu - Tirumalpur	3.56
Tirumalpur - Arakkonam	1.67
Villupuram - Pudukcherry	3.48
Cuddalore Port - Vriddhachalam	2.75
Vriddhachalam - Salem Market	3.41
Salem Market - Salem	5.25
Tenkasi - Sengottai	2.97
Thanjavur - Tiruvarur	10.55
Tiruvarur - Nagore	10.23
Nagore - Karaikal	1.16
Nagore - Velankanni	0.10
Nidamangalam - Mannargudi	0.38
Punalur - Kollam 0.78	—
METRE GAUGE	
Route - Q	
- Nil -	
Route - R1	
- Nil -	
Route - R2	
Virudunagar - Manamadurai	0.00
Route - R3	
Dindigul - Pollachi	0.00
Route - S1	
Mayiladuturai - Tiruvarur	0.00
Tiruvarur - Tiruturai pundi	0.53
Tiruthurai pundi - Karaikkudi	0.53
Sengottai - Punalur	0.00
Route - S2	
Pollachi - Palakkad	0.00
Tirunelveli - Tenkasi	0.00
Route - S3	
Mettupalaiyam - Udagamandalam	0.53
Tiruturai pundi - Agastiyampalli	0.00
Madurai - Bodinayakanur	0.00

22. Track Modernisation :

As part of Track Modernisation, Southern Railway has been in the forefront in deployment of machines for Track laying as well as for 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 past 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, 4 Ballast Regulation Machines, 7 Dynamic Track Stabilisers, 2 Points & crossing laying machines, 1 Track Relaying Train, 5 Utility Track vehicles, 1 Jumbo Vacuum Cleaner (VM170) and 2 Portal cranes, thus totaling to 48 machines coasting a total of Rs.318 crores.

Tamping of 6744 km of track has been done by the machines during 2011-12 in the Shatabdhi and other high speed and high-density routes on the Railway.

Track relaying for 63.523 km by Track Relaying Train was also completed 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.

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

Ballast collection (lac cum)	5.15
Ballast Insertion (lac cum)	4.36
Deep screening (km)	370.18
USFD (km)	11291.00

23:- Stabilisation of Bad banks:

Improvement works to formation by making cess and provision of standard formation in a total length of 89.70 km. has been carried out during the year 2011-12.

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	Important
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	
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	835/7-9	161.40	1905	Un Lined	Curve	
				ADN						
24.	PGT	SRR-MAQ	BG	1198 Up	835/7-9	175.00	2003	Un Lined	Curve	
				1198 A						
				ADN						
				1198 Up						
25.	TVC	ERS-KTYM-K	BG	1	60/4-5	66.68	1958	Lined	Straight	Important
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		Narrow Gauge		Total	
	2010 - 11	2011-12	2010 - 11	2011-12	2010 - 11	2011-12	2010 - 11	2011-12
Important ..	14334.23	18188.28	3854.05	0.00	Nil	Nil	18188.28	18188.28
Major ..	32010.56	35010.56	7648.93	4648.93	Nil	Nil	39659.49	39659.49
Minor ..	28432.87	28926.87	3360.05	2866.05	Nil	Nil	31792.92	31792.92
	75777.66	82125.71	13863.03	7514.98	Nil	Nil	89640.69	89640.69

26. Building Activities

(i) Statement showing number of projects, plinth area, estimated cost and value of work done during 2011-2012.

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 ..	146	12322.26	7761.49	1718.58	493.05	931.15
2.	Completed ..	115	8318.21	6674.03	786.12	455.96	778.39
1 B. Non-family dwelling barracks							
1.	In progress ..	1	200.00	180.00	30.00	27	3
2.	Completed ..	2	285.06	251.28	72.88	34.35	34.35
2. Industrial building							
1.	In progress ..	..	17773.00	..	..	..	..
2.	Completed.	2	..	..	285.00	200	200
3. Commercial buildings							
1.	In progress ..	4	2983.67	6783.00	3316.81	231.00	268
2.	Completed. ..	1	..	..	13.00	11	11
4. Institutional buildings							
1.	In progress ..	3	907	726	905.07	455.00	591
2.	Completed. ..	1	..	..	22.00	20	20
5. Other buildings							
1.	In progress ..	8	2974.00	1848.00	795.16	299.72	452.85
2.	Completed ..	8	2710.91	2435.54	471.95	258.68	508.13

(ii) Statement showing number of addition and alterations of projects, plinth area, estimated cost and value of work done during 2011-2012 on Building by construction type and stages of construction.

1.A. Residential building							
Family quarters.							
1.	In progress	1	8003.63	6780.00	333.83	191.95	214.74
2.	Completed ..	14	150.00	135.00	0.60	0.6	0.60
1 B. Non-family dwelling barracks.							
1.	In progress	..	-	-	-	-	-
2.	Completed.	..	-	-	-	-	-

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							
1.	In progress	-	-	-	-	-	-
2.	Completed.	..	..	-	-	-	-
3. Commercial buildings							
1.	In progress	2	272.67	114.00	76.81	22.00	37.00
2.	Completed.	..	..	-	-	-	..
4. Institutional buildings							
1.	In progress	..	..	-	-	-	-
2.	Completed.	..	-	-	-	-	-
5. Other buildings							
1.	In progress	..	816.00	-	82.00	75.00	7.00
2.	Completed.	..	9.90	7.20	1.00	0.00	1.00

iii) Number of dwelling Units/staff quarters (permanent structures) constructed and under construction during 2011-12.

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)	In Progress	21	250	173	111.83	31.95	44.74
(b)	Completed	64	112	32	12	12	1

27. Land Management

(a) Tree Plantation

Position for the year 2011-2012 is as under :

(in thousands)

(in Hectares)

Name of States	Total No. of trees surviving as on 1/4/2011	Total No. of trees planted on Railway land			Total land handed over to Forest Deptt.	
		Departmentally	Forest Deptt.	Total	During the year	Total up-to-date 31/3/2012
Tamil Nadu	..	..	..	..	..	..
Karnataka	..	..	..	..	..	..
Kerala	..	..	..	..	..	..
Andhra Pradesh	..	..	..	..	..	..
Total	1489.16	122.4	..	..	..	1621.56

No. of shady trees planted on platform during the year 2011-2012.

(b) Encroachments—Position of Encroachments on Railway Land

(i) The position for the year 2011-2012 is as under :

Total No. of encroachments as on 31-3-11	Total No. of encroachments			Total No. of cases pending with Estate Officer at the beginning of the year 31/3/2011	No. of cases filed during the year	No. of cases decided during the year	Total No. of cases pending with Estate Officer as on 31/3/2012
	Added	Removed	Total No. of encroachments as on 31/3/2011				
9,315	0	0	9,315	2,640	0	0	2,640

(ii) Special Measures taken to remove encroachments :

(c) Position of Licensing Agreement : (Nos.) 2011-12

Item	Total No. of cases	Total No. of cases agreements executed
a. G. M. F.	329	329
(i) Railway employees ..	..	..
(ii) Outsiders ..	..	..
b. Commercial plots including vending by Comm. Deptt.	17	1
c. Engineering plots ..	87	86
d. Shopping plots (Engg. Deptt.)	24	3
e. Oil plots ..	54	54
f. Others ..	192	112
Total ..	703	575

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

Sl. No.	Description	Actual earnings for last three years			Remarks
		2009-10	2010-11	2011-12	
1.	Licensing of land for G. M. F.	3.55	93	196.4	
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.	122.01	5268	1040	
6.	Licensing of land for shopping purposes including Tehbazari purposes.	21.49	193	1660	
7.	Licensing of land for Oil Companies	1395.08	23702	48639	
8.	Licensing of land for other purposes	3911.40	4010.00	2500.00	
9.	Way leave facilities & easement rights both along road & rail approaches.	706.39	47148	318648.6	
10.	Other Misc. Earnings from Land	1610.13	3886	2286	
Total ..		7770.05	84300	374970	

(e) Outstanding Dues (In thousand rupees)

					2011-2012			
Sl. No.	Item	Position as on 31/3/2011	Accretion during the year (+)	Clearance during the year (-)	Balance Outstanding as on 31/3/2012			
1.	G. M. F. Scheme ..	..	..	..	..	..	..	..
	(a) Railway Staff ..	..	..	..	..	113	113	0
	(b) Outsiders ..	..	..	..	12.226	0	0	12.226
	(c) State Governments ..	..	..	..	..	..	..	0
2.	Temporary Commercial Licensing	..	..	..	308.000	4934	5222	20.000
3.	Outstanding due Oil Companies..	..	..	..	43115.600	6609.400	29520.090	20204.910
4.	Outstanding dues from Government Department	..	..	..	781.000	3413.82	1493.202	2702.598
Total ..		..	..	..	44217.806	15070.220	36348.292	22939.734

(f) Total Land Area (in Hectares)

										2011-2012
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	
(1)	(2)	(3)	(4)	Under track structures and colonies etc.	Afforestation	Commercial licensing	(8)	(9)	(10)	
25,552.57	..	..	25,552.57	20,010.93	2,654.11	276.1	107.4	3.5	2,300.58	

* Updated position under compilation.

28. Civil Engineering

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 (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 (m)	F.O.B.	R.O.B.	R.U.B.	Total(m)					
	4	5	6	7	8=(6+7)	9	10	11	12=(9+11)	13	14	15	16	17
S.Ry.	1465393.44	1145670.70	55315.41	31157.884	86409.29	11620.43	7526.139	2791.05	21945.619	57953.83	25968.20	203	43	7

Civil Engineering Assets

Sl. No.	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 (m)					
1	2	3	4	5	6	7	8=(6+7)	9	10	11	12=(9+10+11)	13	14	15	16	17
1	2010-11	MAS	679849.00	155532.05	127.00	3359.00	3486.00	5903.30	29.00	0.00	5932.30	0.00	0.00	77	7	0
	2011-12		679849.00	194218.74	127.00	3359.00	3486.00	5905.30	10.00	39.00	5954.30	0.00	0.00	77	7	0
2	2010-11	SA	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
	2011-12		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
3	2010-11	PGT	269432.07	136145.00	12671.50	2699.93	19029.95	1855.58	1300.18	226.90	3382.66	8767.83	2258.00	10	0	1
	2011-12		108200.36	167130.88	14528.19	1897.30	18425.49	1549.79	1506.40	170.90	3227.09	8743.83	2088.00	27	1	1
4	2010-11	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
	2011-12		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
5	2010-11	TPJ	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
	2011-12		240887.45	377024.16	14998.49	6037.91	21036.40	1580.04	180.36	1159.20	2919.60	1611.00	17570.20	20	14	0
6	2010-11	MDU	215600.79	183671.00	10358.84	8014.91	18373.75	611.14	1068.48	243.00	1922.62	37694.00	5324.00	46	16	5
	2011-12		167664.631	183671.00	9736.63	8636.91	18373.54	611.14	1119.379	247.50	1978.02	38019.00	2682.00	46	16	5
7	2010-11	CNMS	6656.00	690.00	4515.48	2643.45	7158.93	252.00	944.00	160.50	1356.50	184.00	189.00	19	0	0
	2011-12		0.00	350.00	1328.00	944.00	2208.00	120.00	2405.00	721.00	3254.00	0.00	0.00	1	0	0
8	2010-11	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
	2011-12		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
9	2010-11	Total	1647181.87	995121.28	56289.11	23752.72	89704.35	11159.17	5744.73	1742.51	16646.41	58108.83	28991.20	204	42	7
	2011-12		1465393.44	1145670.70	55315.41	31157.884	86409.29	11620.43	7526.139	2791.05	21945.619	57953.83	26968.20	203	43	7



V. TRANSPORTATION

1.0 Highlights of Freight Performance

1.1 Originating Revenue Earning Traffic:

- Originating Revenue Earning Traffic during the period 2011-12 was 39.398 MT.
- Against the Board's Target of 36.5 MT, SR loaded 39.398 MT which is more than 7.94% (2.898 MT) and highest ever.
- The incremental loading over previous year is 4.291 MT with a growth of 12.22% which is highest ever.
- Coal and Fertiliser loading recorded 18.743 MT and 5.002 MT respectively which is the highest ever.
- The Operating Ratio for the year 2011-12 is 122.55% which is the best ever after VI CPC.

1.2 Originating Revenue Earning Traffic (In Million Tonnes) for 2011 -12 & 2010-11 compared with Board's target for 2011-12 are as under :—

(In Million Tonnes)

Commodity (Target)	(2011-12) Board	2011-12 (Actual)	2010-11 (Actual)	%Variation over Target	%Variation over Last year
COAL	18.350	18.743	17.261	2.1	8.6
CEMENT	3.550	3.980	3.453	12.1	15.3
FOODGRAINS	1.300	1.946	1.366	49.7	42.5
FERTILISER	4.200	5.002	3.911	19.1	27.9
POL	3.500	3.505	3.816	0.1	- 8.1
CONTAINER	2.050	1.851	1.763	- 9.7	5.0
OTHERS	3.550	4.371	3.537	23.1	23.6
TOTAL	36.500	39.398	35.107	7.9	12.2

2.0 Loading : (Daily average in terms of 8 wheelers)

COMMODITY	2011-12	2010-11	% Variation over Last year
COAL	777	727	6.9
CEMENT	172	149	15.5
FOODGRAINS	85	60	42.3
FERTILIZERS	217	170	27.6
POL	155	238	- 34.8
CONTAINER	149	129	15.5
OTHERS	184	153	20.3
TOTAL	1739	1626	7.0

2.1. Wagon interchange with other Railways.

Daily average	2011-12	2010-11
Receipts	1838	1851
Despatch	1843	1855

2.2. The daily average TU releases for the year 2011-12. (In 8w Units)

2011-12	2010-11	Decrease by
1972	2145	- 8.1%

2.3. The EKM/Engine day

	2011-2012	2010-2011	% Var. over Last year
Diesel	482	484	- 0.4%
Electrical	523	503	4%

3. Long Haul Trains

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

Long haul trains run during 2011-12 is :

Year	Empty	Load	Total
2011-12 (April-March)	293	5	298

4. Clearance of Traffic from Ports: (April-2011 to March -2012)

There are six major ports in Southern Railway Viz, Chennai Harbour (HOM), Ennore Port (AIPO), New Mangalore Port (NMPT), V. O. Chidambaram Tuticorin Port (VOC TNHP), Cochin Harbour (CHTS) and Karaikkal Port (KIKP).

The traffic originated from various ports during 2011-12 compared to previous year 2010-2011 are :—

(In Million Tonnes)

Name of Port	Port-wise Loading for the year 2011-12 compared with last year									
	Year	Coal	Cont	Dolo mite	Fert	Gyp sum	Lime Stone	Others	TOTAL	%Vari
HOM	10-11	4.24	0.80	0.28	0.61	-	1.18	0.09	7.20	
	11-12	2.22	0.86	0.31	0.72	0.03	2.09	0.01	6.24	-13.3
AIPO	10-11	0.01							0.01	
	11-12	1.21							1.21	12000
KIKP	10-11	2.14		0.47		0.03			2.64	
	11-12	2.88		0.88		0.04			3.80	43.9
VOC TNHP	10-11	0.33	0.01	0.76	0.02		0.03		1.15	
	11-12	0.12	0.04	0.84			0.07		1.07	-7.0
NMPT	10-11	1.45	0.02	0.54	0.01	0.02	0.28	0.03	2.35	
	11-12	2.63	0.01	0.54		0.16		0.02	3.36	43.0
CHTS	10-11	0.02	0.03	0.01		0.04		0.02	0.12	
	11-12	-	0.07	0.06					0.13	8.3
VPDP	10-11	-							-	
	11-12	0.04							0.04	-
TOTAL	10-11	8.19	0.86	2.06	0.64	0.09	1.49	0.14	13.47	
	11-12	9.06	1.02	2.63	0.72	0.23	2.16	0.03	15.85	17.7

5.0 Passenger Operations-Performance Highlights**5.1. Special Trains run .. 1,467****5.1.1. Allotment of Special trains on (FTR)**

Film Shooting	FTR Special	Village on Wheels
9	49	Nil

5.1.2. Allotment of coaches on FTR

Total No. of Coaches	..	144
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5.2. Military Specials run

5.2.1. No. of loaded Military specials	28
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5.2.2. No. of Empty Military specials	16
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5.3. Alarm Chain Pulling

The following are the particulars of Alarm Chain Pulling during April 2011 to March 2012 :—

Division	MAS	PGT	TVC	TPJ	MDU	SA	Total
Total No. of cases	519	248	628	124	194	268	1981
Unjustified	255	—	344	—	—	—	599

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). A total of 123 Coaches were augmented (ACCW-3, ACCN-11, FC-1, GSCN-71, GSCZAC-14 & GS-20) by 46 pairs of Exp. trains and 18 Pairs of Passenger trains on permanent basis. This is the highest in the last 4 years.

5.6.(2). During April 2011 to March 2012, 7846 Coaches were attached as extra to clear wait listed passengers based on day- to- day demand.

5.6.(3). To clear extra rush 1467 Special trains, (Including Summer & Winter Specials) were run during April 2011 to March 2012.

6. INTRODUCTION OF TRAINS

To Order to meet the increasing requirements of train service, the following new trains were introduced from S. Rly. during 2011-12.

Sl. No.	T. No.	Description	W.E.F	Budget Non-Budget
1	22404/22403	New Delhi- Puducherry Super Fast Exp.	07/06/11	Budget
2	56146/56147	Coimbatore-Mettupalayam (6D) Passr. Except Sun.)	01/07/11	Budget
3	56148/56149	Coimbatore-Mettupalayam (6D) Passr. Except Sun.)	01/07/11	Budget
4	56150/56151	Coimbatore-Mettupalayam (6D) Passr. Except Sun.)	01/07/11	Budget
5	16612/16611	Coimbatore-Tuticorin Link Exp. (daily)	01/07/11	Budget
6	22601/22602	Chennai Central-Sai Nagar Shirdi SF Wkly. Exp.	06/07/11	Budget
7	22681/22682	Mysore-Chennai-Mysore Super Fast Wkly. Exp.	06/07/11	Budget
8	22607/22608	Ernakulam-Bangalore Super Fast Wkly. Exp.	24/07/11	Budget
9	66002	Avadi-Chennai Central MEMU	19/07/11	Non-Budget
10	66015	Chennai Central-Tirupati Passr.	19/07/11	Budget
11	66033	Tirupati-Nellore Passr.	19/07/11	Budget
12	66036	Nellore-Chennai Passr.	19/07/11	Budget

Sl. No.	T. No.	Description	W.E.F	Budget Non-Budget
13	66003	Chennai-Avadi Passr.	19/07/11	Budget
14	66004	Avadi-Chennai Passr.	19/07/11	Budget
15	66035	Chennai-Nellore Passr.	19/07/11	Budget
16	66034	Nellore-Tirupati Passr.	19/07/11	Budget
17	66014	Tirupati-Chennai Passr.	19/07/11	Budget
18	66005	Chennai-Avadi Passr.	19/07/11	Non-Budget
19	17315/17316	Vasco-Velankannai Wkly Exp.	29/08/11	Budget
20	16179/16180	Chennai Egmore-Mannargudi "Mannai" Exp.	27/09/11	Non-Budget
21	19567/19568	Tuticorin-Dwaraka Vivek (Wkly.) Exp. Introduced upto Madurai.	12/11/11	Budget
22	22815/22816	Bilaspur-Ernakulam Superfast Wkly. Exp.	14/11/11	Budget
23	16349/16350	Thiruvananthapuram-Nilambur 'RAJYARANI' Exp.	16/11/11	Budget
24	19260/19259	Bhavnagar-Kochuveli Wkly Exp. via Kottayam.	17/11/11	Budget
25	22609/22610	Mangalore-Palakkad-Intercity(Daily) Exp.	18/11/11	Budget
26	15906/15905	Dibrugarh-Kanniyakumari Vivek(Wkly.) Exp.	26/11/11	Budget
27	22604/22603	Villupuram-Kharagpur-Villupuram Superfast (Wkly.) Exp.	20/02/12	Budget
28	22851/22852	Santragachi-Mangalore-Santragachi Vivek (Wkly.)	25/02/12	Budget
29	22817/22818	Howrah-Mysore Super-fast (Wkly.) Express.	24/02/12	Budget
30	19261/19262	Kochuveli-Porbandar (Wkly.) Exp. (via ALLP)	17/03/12	Budget
31	66019/66020	Salem-Katpadi MEMU	19/03/12	Budget

6.1. Trains introduced on Gauge Converted Sections:-

Express Trains:- T.No. 22604/22603 Villupuram-Kharagpur – Villupuram Superfast (Wkly) Exp. w.e.f 20/02/12

Passenger Trains- Nil

6.2. EXTENSION OF TRAINS

1	56318/56317	Nagercoil-Thiruvananthapuram Passr.	Kochuveli	01/07/11	Budget
2	16515/16516	Yesvantpur-Mangalore Tri-Weekly Exp.	Karwar	14/11/11	Budget
3	16175/16176	Chennai Egmore-Nagore Daily Exp.	Karaikkal	17/12/11	Budget
4	16866/16865	Ernakulam-Nagore daily Exp.	Karaikkal	17/12/11	Budget

6.3. INCREASE IN FREQUENCY

1	12245/12246	Howrah- Yeshwantpur Duranto Exp.	4 Days to 5 days	18/05/11	Budget
2	12133/12134	Mumbai- Mangalore Jn. SF Tri-Weekly Exp.	TW to Dly.	03/07/11	Budget
3	76835/76836	Tiruchirappalli- Karur DEMU	6 Days to Dly.	03/07/11	Budget
4	56607/56608	Shoranur- Ernakulam Passenger	6 Days to Dly.	03/07/11	Budget
5	16735/16736	Chennai Egmore- Tiruchendur Exp.	W to Dly	27/09/11	Budget

6.4. Conversion into Superfast Trains : NIL

6.5. MEMU Services introduced during 2011-12

1. T.No. 66019/66020 Salem-Katpdi MEMU - W.e.f 19.03.2012 - Budget.
2. T.No. 66002 / 66005 Avadi-Chennai Central - Avadi MEMU - W.e.f 19.07.2012 - Non-Budget.
3. T.No. 66300/66301 Ernakulam-Kollam MEMU (Via KTYM) - W.e.f 19.03.2012 - Budget.
4. T.No. 66302/66303 Ernakulam-Kollam MEMU (Via ALLP) - W.e.f 20.3.2012 - Budget.

6.6. Trains Diverted : - NIL

6.7. Suburban Trains :

As on 31.03.2012, 585 suburban services from Monday to Saturday and 503 suburban services are running in Chennai area.

7. PUNCTUALITY PERCENTAGE OF PASSENGER CARRYING TRAINS (GAUGE WISE) NLT BASIS.

	Broad Gauge				Metre Gauge			
	Target	2010-11	Target	2011-12	Target	2010-11	Target	2011-12
Mail/Exp.	90.0	92.1	95.0	93.8	90.0	99.5	95.0	99.0
Passenger	95.0	94.4	95.0	91.5	95.0	95.7	95.0	97.1
Suburban	97.5	96.0	97.5	85.5	-	-	-	-

	Broad Gauge		Metre Gauge	
	2010-11	2011-12	2010-11	2011-12
No. of trains run	74322	82449	729	698 **
No. of trains not losing	68483	77338	725	691
No. of trains losing	5839	5111	4	7
Percentage	92.1	93.8	99.5	99.0

** PTKT-KKDI Meter Gauge section closed for GC Work w.e.f. 15.03.2012.

RIGHT TIME BASIS

	Broad Gauge		Metre Gauge	
	2010-11	2011-12	2010-11	2011-12
Mail/Exp.	89.6	91.8	99.5	99.0

8. Volume of Traffic handled and Transportation out put

(Figures in thousands)

Sl. No.	Description	2011-2012	2010-2011
(a)	No. Passenger Carried (System)..	860175	788402
(b)	Passenger Kms.	82512325	* 74663534
(c)	Passenger train Kms. * Excl. Deptl. (incl. MEMU, DEMU, EMU)	57179	55097
(d)	Total Coaching Vehicle Kms.	1690008	* 1589860
(e)	Total freight tonne Kms.	17380012	* 15774997
(f)	Goods train Kms. Excluding Departmental.	11842	11527
(g)	Total Wagon Kms. Excluding Dept. & Brake van	542114	* 519754
(h)	Total train Kms. (Excl. Deptl.) * (incl. Pass & Goods and also MEMU, DEMU, EMU)	69021	66625
(i)	Total Engine Kms.	75261	* 71827
(j)	Total Gross Tonne Kms. (incl. weight of Engine & Deptl.) and incl. coaching, goods EMU MEMU DEMU).	87900284	82644090

(*) 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.

9. Operating Efficiency

The important efficiency statistics are given below :-

Sl. No.	Description	Broad Gauge		Metre Gauge	
		2011-12	2010-11	2011-12	2010-11
(I)	Wagon Kms. per wagon day on line. In terms of eight wheelers,	177.38	174.83	0	0.37
(II)	Coaching Vehicle Kms. per vehicle day-				
	(a) Passenger..	519.62	509	128.9	83
	(b) Other Coaching..	350.73	359	0	0
(III)	Percentage of loaded to total wagon Kms.	61	60	0	60
(IV)	Speed of all Goods trains (Kms. per hour).	27.9	27.5	0.0	22.4
(V)	Average starting wagon load (Tonnes).	61.3	58.8	0	35.4
(VI)	Loads of Goods Trains (Tonnes)-				
	(a) Net or freight load..	1,466	1,366	0	* 354
	(b) Gross Load (incl. weight of engine).	2,806	2,684	0	* 712
	(c) Gross Load (Excl. weight of engine).	2,632	2,512	0	629
(VII)	Net Tonne Km. Per wagon day on line.	5,679	5,297	0	7
(VIII)	Net Tonne Km. Per Locomotive day in use.	2,76,352	2,50,231	0	21,771
(IX)	Net Tonne Km. per engine hour.	13,861	13,729	0	* 50
(X)	Gross Tonne Km. Per engine hour.	73,321	69,029	0	* 14,062

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

10. Originating Tonnage under plan 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	2008-09	2009-10	2010-11	2011-12
1. Coal					
(i) Coal for Railway use	..	0.00	0.00	0.00	0.00
(ii) Coal for Steel Plant	..	0.27	2.31	0.80	1.33
(iii) Coal for other use	..	17.26	15.35	16.46	17.41
(iv) Total Coal	..	17.53	17.66	17.26	18.74
2. Raw materials for steel plants (Other than coal).		0.62	1.77	2.01	2.79

11. 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	
		2011-12	2010-11	2011-12	2010-11
(a)	No. of wagons owned (in terms of 8-wheelers) ..	9,566	9,658	356	418
(b)	Inter-change debit/credit balance	n/a	n/a	n/a	n/a
(c)	Average wagon holding (in terms of 8-wheelers) ..	8,350	8,145	0	36
(d)	No. of wagons loaded :				
	(i) Originating	1,726	1,620	0	0
	(ii) Transhipment	0	0	0	0
	(iii) Repacked	0	0	0	0
	(iv) Coaching Traffic	0	0	0	0
	(v) Total loading	1,726	1,620	0	0
(e)	No. of loaded wagons received daily from other Riys.	1,336	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

12. Wagons on Line

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

Gauge	Current year	Previous year	Percentage variation over previous year
	2011-12	2010-11	
Broad	9,834	10,053	-2.18
Metre	365	427	-14.52
Total	10,199	10,480	-2.68

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

Gauge	Current year	Previous year	Percentage variation over previous year
	2011-12	2010-11	
Broad	8,350	8,145	2.52
Metre	0	36	-100.00

(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 :—

3	Finished products from steel plants.	0.22	1.56	0.00	0.00
4	Cement	4.36	4.11	3.45	3.98
5	Export Ores:				
	(i) Iron Ores	..	0.00	0.00	0.00
	(ii) Manganese Ore	..	0.00	0.00	0.00
6	Miscellaneous Goods :				
	(i) Railway Materials	..	0.63	0.46	0.48
	(ii) Foodgrains	..	1.24	1.03	1.37
	(iii) Mineral Oils	..	4.40	4.01	3.05
	(iv) Fertilizers	..	2.69	3.22	3.91
	(v) Other Goods	..	2.63	2.37	3.97
	(vi) Total Misc. Goods	..	11.59	11.09	12.78
7	Total All Traffic (Revenue & Non-Revenue)	..	34.32	36.19	35.5
					39.73

Gauge	Current year	Previous year	Percentage variation over previous year
	2011-12	2010-11	
Broad	6,31,735	5,91,236	6.85
Metre	0	0	0.00

(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 8-wheelers) :

Gauge	Current year	Previous year	Percentage variation over previous year
	2011-12	2010-11	
Broad	4,88,853	5,11,942	-4.51
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 8-wheelers).

Gauge	Current year	Previous year	Percentage variation over previous year
	2011-12	2010-11	
Broad	6.32	6.14	2.9
Metre	0	0	—

13. Statement of Net Tonne Kms. (Originating)

(Figures in Millions)

Particulars	Current year 2011-2012	Previous Year 2010-2011
I. Coal		
(i) Coal for Railway Use ..	..	..
(ii) Coal for Steel Plants ..	187.26	143.01
(iii) Coal for Other Use ..	4,091.45	4,101.66
(iv) Total Coal ..	4,278.71	4,244.67
II. Raw Materials for Steel Plants	397.72	* 252.29
(Other than Coal).		
III. Finished products from Steel Plants	613.28	607.98
IV. Cement ..	3,214.44	2,625.44
V. Export Ore		
(i) Iron Ore ..	0	269.87
(ii) Manganese Ores ..	0	0
VI. Miscellaneous Goods		
(i) Railway Material ..	47.42	46.92
(ii) Foodgrains ..	3,777.15	3,217.37
(iii) Mineral Oil ..	955.56	938.31
(iv) Fertilizer ..	1,995.66	1,729.41
(v) Other Goods ..	2,100.07	1,842.65
(vi) Total Misc. Goods ..	8,875.86	* 7,774.66
(vii) Total all traffic ..	17,380.01	*15,774.91

14. 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 2011-2012	Previous Year 2010-2011	% variation over previous year
(a) Passenger			
B. G. Steam ..	0	0	0.00
Dsl. Elec. ..	27,648	26,280	5.17
Dsl. Hyd. ..	..	..	..
Elec. ..	36,609	33,334	9.82
Total ..	64,257	59,623	7.77
M. G. Steam ..	19	19	..
Dsl. Elec. ..	387	509	-23.97
Dsl. Hyd. ..	..	..	..
Elec. ..	..	..	..
Total ..	406	528	-23.11
(b) Goods			
B. G. Steam ..	..	..	..
Dsl. Elec. ..	9,607	10,826	-11.26
Dsl. Hyd. ..	2	4	-50.00
Elec. ..	14,576	12,473	16.86
Total ..	24,185	23,303	3.78
M. G. Steam ..	..	..	..
Dsl. Elec. ..	..	1	-100.00
Dsl. Hyd. ..	..	..	..
Elec. ..	..	..	..
Total ..	..	1	-100.00
(c) Mixed			
B. G. Steam ..	..	..	..
Dsl. Elec. ..	..	..	..
Dsl. Hyd. ..	..	..	..
Elec. ..	..	..	..
Total ..	..	..	..
M. G. Steam ..	..	..	..
Dsl. Elec. ..	..	..	..
Dsl. Hyd. ..	..	..	..
Elec. ..	..	..	..
Total ..	..	..	..

(Figures in Millions)

Particulars	Current year 2011-2012	Previous Year 2010-2011
(d) Total EKMs incl. Dept.		
B. G. Steam ..	..	..
Dsl. Elec. ..	45,713	43,586
Dsl. Hyd. ..	767	1,630
Elec. ..	51,873	46,908
Total ..	98,353	92,124
M. G. Steam ..	34	41
Dsl. Elec. ..	428	578
Dsl. Hyd. ..	..	..
Elec. ..	..	..
Total ..	460	619

II. Engine Kms. per day per engine in use :**(a) Passenger Service**

B. G. Steam ..	..	..	..
Dsl. Elec. ..	618	575	7.48
Dsl. Hyd. ..	..	..	..
Elec. ..	602	602	..
Combined ..	@	@	..
M. G. Steam ..	39	34	-11.76
Dsl. Elec. ..	111	96	15.63
Dsl. Hyd. ..	..	..	..
Elec. ..	..	..	..
Combined ..	@	@	..

(b) Goods Service

B. G. Steam ..	..	..	..
Dsl. Elec. ..	385	341	12.90
Dsl. Hyd. ..	23	19	21.05
Elec. ..	419	420	-0.24
Combined ..	@	@	..
M. G. Steam ..	..	..	..
Dsl. Elec. ..	0	300	-100.00
Dsl. Hyd. ..	..	..	..
Elec. ..	..	..	..
Combined ..	@	@	..

III. Engine Kms. per day per engine on line (All services) :

B. G. Steam ..	..	..	..
Dsl. Elec. ..	421	404	4.21
Dsl. Hyd. ..	99	124	-20.16
Elec. ..	400	402	-0.50
Combined ..	@	@	..
M. G. Steam ..	10	14	-28.57
Dsl. Elec. ..	90	86	4.65
Dsl. Hyd. ..	..	..	..
Elec. ..	..	..	..
Combined ..	@	@	..

@ 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.

15. Punctuality of Passenger Trains

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

Particulars	Current Year 2011-12	Previous Year 2010-11
B.G. Mail & Express	91.8	89.6
Passenger	91.5	94.4
Suburban (EMU)	85.9	96.0
M.G. Mail & Express	99.0	99.5
Passenger	97.2	95.7
Suburban (EMU)	..	..

16. 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	TBM-SP – Water supply arrangement by providing bore well from MPK to GI	75.48
2.	Salem	Nil	
3.	Palakkad	Nil	
4.	Trivandrum	Nil	
5.	Tiruchchirappalli	Nil	
6.	Madurai	1. TEN – Laying of pipe line from TBR and construction of OHT 90000 lit. capacity 2. TEN – Proposed construction of OHT 90000 lit. capacity at Jawahar Colony.	52.00 13.00
7.	CE/CN/MS	Nil	
8.	MTP	Nil	
(ii) Works costing less than ₹ 5 lakhs each			
1.	Chennai	Nil	
2.	SA	Nil	
3.	Palakkad	Nil	
4.	Trivandrum	Nil	
5.	Tiruchchirappalli	Nil	
6.	Madurai	Nil	
7.	CE/CN/MS	Nil	
8.	MTP	Nil	
B. Works in Progress			
(i) Works costing more than ₹ 5 lakhs each			
1.	Chennai	i) PER – PER & PT colony water supply arrangements. ii) PER – Removal of corroded pipe line. iii) SPE – Supply of drinking water by lorries for Railway Quarters & Station. iv) ENR – Supply of drinking water by lorries for Railway Quarters & Station. v) AVD – Supply of drinking water by lorries for Railway Quarters & Station. vi) MAS – Extension of hydrants & watering arrangements at coaches.	.. 7.96 11.00 11.00 25.14 51.00
2.	Salem	i) ED Jn. – Proposed maintenance of water supply system. ii) Augmentation water supply at ED to improve the watering arrangements. iii) TUP – Construction of OHT 45000 liters capacity including pipe line arrangements. iv) ADEN/KRR sub Division – Construction of GLR OHT and water supply arrangements at 25.85 KLT station. v) CBE – Proposed RCC OHT – New pipe line for supplying purified drinking water through treatment system, new bore well GLR with RO plant. vi) PTJ – Construction of OHT 90000 liters capacity replacement of pipe line in 20 block area and provision of individual storage water tank at 400 Nos.	26.69 31.97 56.10 111.37 104.05
3.	Palakkad	Nil	
4.	Trivandrum	i) Ernakulam Coaching Complex – Watering arrangements by laying 200 mm. dia. pipe for Muvatupuzha river near Piravam Road station. ii) CGV – ERM – TRVL – Improvements to water supply arrangements iii) ALLP – Repairs to water hydrants. iv) NCJ – Proposed water hydrant in road No. 1A v) GUV – Improvements to water supply arrangement	895.00 24.00 9.33 27.85 64.28
5.	Tiruchchirappalli	Nagappattinam & Nagore – Augmentation of water supply at NGT, NCR (id:578/07-08), CE/OL.	15.00
6.	Madurai	i) MDU Jn. – Proposed improvement to existing hydrants in between platforms 1 & 2 ii) PUU – Augmentation of water supply and construction of RCC over head tank 90000 lit. capacity including renewal of pipe line. iii) PDKT – Proposed construction of RCC over head tank 90000 lit capacity. iv) KKDI – Sinking 2 bore well and augmentation of pipe line v) DG – Proposed construction of RCC GLR 90000 lit capacity & OHT and pipe line arrangements. vi) DG – Augmentation of water storage for the requirement of station cleanliness	19.18 74.37 16.00 9.20 99.10 7.63

7.	CE/CNMS	..	Nil	..
8.	MTP	..	Nil	..

(ii) Works costing less than ₹ 5 lakhs each

1.	Chennai	Improvements to watering arrangements for NGO canteen	..	4.25
2.	Salem	..	Nil	
3.	Palakkad	..	Nil	
4.	Trivandrum	..	Nil	
5.	Tiruchchirappalli	..	Nil	
6.	Madurai	PDKT – Proposed construction of GLR and OHT and pipe line arrangements	..	3.31
7.	CE/CNMS	..	Nil	
8.	MTP	..	Nil	

17. WORKING OF TRANSHIPMENT POINTS—Nil

18. ACTION TAKEN TO MAINTAIN CLEANLINESS AT STATION PREMISES.

Details of Comprehensive cleaning contract (Mechanised Claning, ragpicking and garbage disposal etc.,).

	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-5 (TIR, BDJ, MAJN) KGQ, PAY) (Total-11).	B-3-(KZE, OTP, KTU) (Total-3)
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	A1-1 (MDU) A-5 (DG, VPT, TN, TEN, CVP) B-2 (TSI, RMM) Total-8	Nil
	58	53	5

As regards 'C' category stations comprehensive cleaning contracts exist at 2 stations (MMC & MSB). Temporary contracts on quotation basis exist at 15 MRTS stations. Action has also been initiated to float tenders for awarding regular contracts at all stations. At DEF Category Stations, cleaning activities are managed by utilization of imprest cash.

19. Specific fuel Consumption

Specific Fuel Consumption—Brief Remarks for the variation—Period: April 2011 to March 2012 compared with April 2010 to March 2011.

Service	Apr. 10 to Mar. 11	Apr. 11 to Mar. 12	Variation	Remarks
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Broad Gauge

Steam Traction No service

METRE GAUGE—STEAM TRACTION

Pass. and Prop. of Mixed.	759.7	875.0	(+) 115.3	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	No Service	No Service	

DIESEL TRACTION—BROAD GAUGE

Pass. and prop of mixed.	3.96	4.10	+0.14	Do to adoption of actual tare weight instead of average tare weight the GTKM has been reduced and SPC increased from March 2011 onwards.
Goods and prop. of mixed.	2.12	2.16	+0.04	Due to drop in average load from 1450 tonnes to 1438.

DIESEL TRACTION—METRE GAUGE

Pass. and prop mixed.	6.44	7.10	+0.66	Not comparable due to Gauge conversion.
Goods and prop. of mixed.	8.07	Nil	Nil	

Statement No. 26(a)

Shed wise and field wise Coal Supplied (in tonnes)
for 2011-2012

Field	Grade "A"	Grade "B"	Grade "C"	Grade "D"	Non Graded	Total
Bentgal & Bihar Coal	162	0	—	—	—	162
Singareni Coal	—	—	—	—	—	—
MPVP Coal	—	—	—	—	—	—
Total	162	0	—	—	—	162

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

Kind of Coal	Loco-Purposes		Non-Loco Purposes		Total	
	Apr.-10	Apr.-11	Apr.-10	Apr.-11	Apr.-10	Apr.-11
	to Mar-11	to Mar-12	to Mar-11	to Mar-12	to Mar-11	to Mar-12
Grade "A"	0	0	—	—	0	0
Grade "B"	580	451	—	—	580	451
Grade "C"	—	—	—	—	—	—
Grade "D"	—	—	—	—	—	—
Non Graded	—	—	—	—	—	—
Wood (in terms of Coal)	—	—	—	—	—	—
Salvage	—	—	—	—	—	—
Coke (in terms of Coal)	—	—	313	226	313	226
Total	580	451	313	226	893	677

FUEL ECONOMY CAMPAIGN

Action by Division :

1. Shutting down of diesel locos when detained for more than 30 minutes in *enroute*.
2. Identifying loco pilots consuming more fuel than normal and their intensive monitoring by loco inspectors.
3. Loco pilots to be categorized based on fuel efficiency and loco pilots who are Poor on SFC to be sent for training on simulators at DTTC/GOC.
4. Periodical checking of fuel installations for quality and accountability.

Action by Diesel Sheds

1. Identifying locos of high SFC (during load box test) and taking immediate action to reduce the fuel consumption.
2. Correct preparation of engine kilometre and Consumption zone wise and service wise.

General

1. Precise allocation and accountal of fuel issues to different services e. g. Passenger, goods, department and shunting etc.
2. Modification of coaching links to provide minimum time between successive trains.
3. Matching of locos as per train load.
4. Introduction of DEMUs in place of conventional rakes wherever load is less.

20. Input/Output Ratio

Particulars	2011-12	2010-11	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.	432.92	438.98	-1.38
(ii) Wagon holdings in terms of 8-wheelers	8,350	8,181	2.07
(iii) Additional capital investments on line capacity & terminal capacity (₹ 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.	4,42,332	4,15,417	6.48
(ii) NTKMs (in lakhs) on ownership basis as per train documents Goods & prop. of mixed.	2,45,183	2,58,995	-5.33
(iii) Average daily loading incl. Transshipment at BG, MG & NG (Revenue & Non-Revenue).	1,726	1,620	-6.54
Average daily loaded receipts	1,336	1,403	-4.78
Total loading and loaded receipts	3,062	3,023	1.29
AVERAGE			
Wagon Kms. Per wagon day on line			
BROAD GAUGE	177.38	174.83	1.46
METRE GAUGE	0.00	0.37	-100.00



VI. COMMERCIAL

1. Revision of Passenger Fares :

NIL

2. Concession in Fares :

Senior Citizen Concession

I. Existing rule :

As per existing provisions contained in S. No. 36 of Annexure to rule 101 of IRCA Coaching Tariff No. 25, Part-I (Vol. II), Senior citizens of minimum 60 years are eligible for concession in the basic fares of Mail/Express trains and all inclusive fares of Rajdhani/Shatabdhi/Jan Shatabdi trains. The element of concession 30 per cent for men senior citizens and 50 per cent for women senior citizens.

II. **Revised Rule :** —With effect from 1st June 2011, the minimum age for availing concession for women senior citizen has been reduced from 60 years to 58 years. However, the element of concession will continue to remain at 50 per cent.

In the case of men senior citizens, the element of concession has been increased from 30 per cent to 40 per cent. The minimum age is continues to be 60 years.

2. Concession to orthopaedically handicapped/ paraplegic persons

I. Existing rule :

All the orthopaedically handicapped persons who can not travel without an assistance of an escort are eligible for following percentage of concession.

A/C First class, A/C 2 Tier Mail/Express basic fares	50 per cent
3 Tier A/C, A/C Chair car, First class sleeper class	75 per cent
and second class Mail/Express basic fares.	

II. Revised Rule :

In addition to that, 25 per cent concession is granted in 3 AC and AC Chair car in all inclusive fares of Rajdhani and Shatabdi Trains. The same concession is also admissible to one escort accompanying the concerned handicapped person.

3. Concession to Blind Persons :

I. Existing rule :

Blind persons (total blind) travelling with or without escort are eligible for the following percentage of concession.

A/C First class, A/C 2 Tier Mail/Express basic fares	50 per cent
3 Tier A/C, A/C Chair car, First class sleeper class	75 per cent
and second class Mail/Express basic fares.	

II. Revised Rule :

In addition of said rule, 25 per cent concession is granted in 3AC and AC chair car of Rajdhani and Shatabdi Trains which is admissible to escort also.

Concession to Mentally retarded Persons :

I. Existing rule :

As per existing rule, the percentage of concession granted to mentally retarded person along with an escort is detailed below :

A/C First class, A/C 2 Tier Mail/Express basic fares	50 per cent
3 Tier A/C, A/C Chair car, First class sleeper class	75 per cent
and second class Mail/Express basic fares.	

Revised Rule : —The concession is extended to Rajdhani and Shatabdi Trains on 25 per cent in 3 Tier AC and AC chair inclusive fares which is admissible to escort also.

Concession in rates for other coaching

Traffic	..	..	Nil.
---------	----	----	------

Fares & Meals

Traffic	..	..	Nil.
---------	----	----	------

4. Revision of rates for goods traffic :—

The freight rates have been revised from 06th March 2012 with the following changes :—

The intermediate class 130A abolished and the commodities coming under class 130A is restored to class 130.

The number of distance slabs has been reduced from 179 to 37.

Consequent on the above, increase in the freight rate varied from 20 per cent to 24 per cent depending upon the distance.

With effect from 30th June 2011, "Alkalate" and "Reformat" are classified at class 200 and included below "Petrol (Motor Spirit) under the main head commodity "Petroleum Products and Gases".

With effect from 15th July 2011, "Urea Ammonium Phosphate 20.20.0" is classified at class 130A and inserted below "Urea" under the Main commodity Head "Chemical Manures".

With effect from 25th July 2011, "Lattice/Transmission Tower Parts" is classified at class 180 and inserted below "Stainless Steel" under the Main commodity Head "Iron or Steel".

With effect from 24th November 2011, "Hot Briquetted Iron" is classified at class 180 under the Main commodity Head "Minerals and Ores".

With effect from 1st December 2011, "Sinter" is classified at class 180 and inserted below "Pyroxinite" under the Main Commodity Head "Minerals or Ores".

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.

Busy season surcharge :—

Busy season Charge at the rates mentioned in the table below is leviable from 1st October 2011 to 30th June 2012.

Sl. No.	Commodities	Rate of Surcharge
1	All Commodities	10 per cent
2	Container traffic	Nil
3	Automobile traffic moved in NMG BCACM & BCCNR wagons.	Nil

The following rate of terminal charges in force upto 31st October 2011 has been extended further and will be in force upto 31st March 2012:

Sl. No.	Commodities	Rate per tonne per terminal
(i)	Iron ore traffic	₹ 45
(ii)	Coal & Food grain	₹ 20
(iii)	All other traffic	₹ 40
(iv)	Container traffic	Nil

5. Concessional Rate :—

The " Inflation Concession " of ₹ 100/- per wagon allowed on booking of Food grains for domestic use and Kerosene Oil has been extended to 30th September 2011.

6. 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 Head have been revised to " Carrying Capacity " or " Enhanced Carrying Capacity ".

With effect from 1st June 2007, all BG routes on Indian Railways (except certain routes) have been universalised 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 retain in force until further advice.

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

- (1) Vasco-Hospet-Guntakal-Renigunta-Vyasarpadi-Chennai (HOM).
- (2) Vyasarpadi-Korukkupet-Tondiarpet-Attipattu-Ennore.
- (3) Gudur-Chennai.
- (4) Madgaon-Ankola/Thokur-Panamburu.
- (5) Arakkaonam-Jolarpettai-Magesite-Mettur dam (included with effect from 1st July 2011).

7. Rebate on Export Traffic :

The scheme was not in force in 2011-2012.

8. 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 Directions.
- 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 :

Nil.

3) Incentive Scheme for Freight Forwarders :

January—December 2011.

Name of the Firm availed the Scheme	Quantum moved (in tonnes)	Freight collected (₹)
M/s. Shrinivasa Roadways	89 292	11 8372' 851

January—March 2012.

Name of the Firm availed the Scheme	Quantum moved (in tonnes)	Freight collected (₹)
M/s. Shrinivasa Roadways	17 510	2 39 15 000

January—December 2011.

Name of the Firm availed the Scheme	Bench Mark fixed for the year (in NTKMs)	Quantum moved (in NTKMs)	Incremental quantum achieved (in NTKMs)
M/s. Ultratech Cements Ltd.,	8 84 82 582	10 93 71 734	2 08 89 152

January—March 2012.

Name of the Firm availed the Scheme	Bench Mark fixed for the year (in NTKMs)	Quantum moved (in NTKMs)	Incremental quantum achieved (in NTKMs)
M/s. Ultratech Cements Ltd.,	10 51 83 375	3 67 64 814	—

9. (a) Claims Registration

Year	Parcels	Goods	Total
2011-12	338	915	1253
2010-11	444	1196	1640

(b) Claims Performance

Details	2011-12	2010-11
Opening Balance ..	146	32
Registration ..	1252	1640
Re-opened	82	92
Total ..	1481	1764
No. of cases paid ..	106	111
No. of cases repudiated ..	1297	1507
Total Disposal ..	1403	1618
Closing Balance ..	78	146
Amount paid (Excl. court cases) ..	3.55	3.53
Amount paid in court cases ..	25.50	5.93
Total amount paid ..	29.05	9.46
Average time for disposal ..	45 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 ..	2011-12	106	3.55
..	2010-11	85	2.55
Theft of complete packages ..	2011-12	0	0
..	2010-11	0	0
Pilferages ..	2011-12	0	0
..	2010-11	3	0
Damage by wet ..	2011-12	0	0
..	2010-11	0	0
Delay in transit ..	2011-12	0	0
..	2010-11	0	0
Breakage ..	2011-12	0	0
..	2010-11	0	0
Leakage ..	2011-12	0	0
..	2010-11	0	0
Others ..	2011-12	0	0
..	2010-11	23	0.94
Total ..	2011-12	106	3.55
..	2010-11	111	3.52

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

Claims paid on Account of	Year	Number	Amount Rs. in lakhs)
Grains & Pulses ..	2011-12	0	0
..	2010-11	0.1	0.02
Iron & Steel ..	2011-12	0	0
..	2010-11	0	0
Cotton piece goods ..	2011-12	02	0.12
..	2010-11	02	0.07
Chemicals & Manure ..	2011-12	0	0
..	2010-11	0	0
Coal & Coke ..	2011-12	0	0
..	2010-11	0	0
P. O. L. ..	2011-12	0	0
..	2010-11	0	0
Others ..	2011-12	104	3.43
..	2010-11	108	3.43
Total ..	2011-12	106	3.55
..	2010-11	111	3.52

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

Details	2010-11	2011-12	% Variation
Opening Balance ..	386	337	- 13
Registration ..	100	72	- 28
Transferred cases ..	..	..	..
Total ..	486	409	- 16
Settled out of court ..	..	..	..
Decreed ..	59	59	..
Dismissed ..	74	86	+ 16
Others ..	16	08	- 50
Total ..	149	153	+ 3
Closing Balance ..	337	256	- 24

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

RCT	Opening Balance	Regis-tration	Total	Disposal	Closing Balance
RCT/MAS	05	01	06	02	04
RCT/ERS	02	..	02	02	..
Other Railways RCT Cases	164	..	164	38	126
Civil Suits	04	..	04	..	04
Consumer Forum cases	128	69	197	102	95
Appeal cases in High Courts & Supreme Court	34	02	36	09	27
Total	337	72	409	153	256

(g) Accident cases (Section 124)

RCT	Opening Balance	Regis-tration	Total	Disposal	Closing Balance
RCT/MAS	..	44	44	15	29
RCT/ERS	..	07	07	..	07
Other Railways RCT Cases	01	..	01	..	01
Appeal cases in High Courts	08	02	10	02	08
Total	09	53	62	17	45

(h) Accident cases (Section 124-A)

RCT	Opening Balance	Regis-tration	Total	Disposal	Closing Balance
RCT/MAS	65	205	270	184	86
RCT/ERS	53	73	126	67	59
Other Railways RCT Cases	77	21	98	24	74
Appeal cases in High Courts	197	40	237	37	200
Total	392	339	731	312	419

(i) PSUs.

RCT's	Opening Balance	Regis-tration	Total	Disposal	Closing Balance
RCT/MAS	02	01	03	02	01
RCT/ERS	..	..	..	..	..
Other Railways RCT Cases	18	..	18	02	16
Appeal cases in High Courts & S/C	08	..	08	03	05
Total	28	01	29	07	22

(j) Causewise and Commodity wise Analysis of claims paid in Court during 2011-12.

Cause	Commodity	Amount in ₹
Short-delivery	Flower Ribbons	19,437/-
Non-delivery	Steel Plates	7,29,975/-
Short-delivery	Steel Channels	4,74,365/-
Non-delivery	MS Oil	10,40,813/-

10. Claims prevention – Preventive Measure :

(a) N. R. Cell

A total of 166 wagon load consignments were disposed off by the NR Cell of this Railway thereby averting claims to the tune of ₹1963.5 Lakhs. 862 Parcel cases were also disposed by the NR Cell during the same period.

WagonLoading Parcels

Details	2010-11	2011-12	2010-11	2011-12
Opening Balance	10	13	51	17
Regis- tration	156	179	969	356
Total	166	192	1020	881
Disposal	153	166	1003	862
Closing Balance	13	26	17	19
Amount saved (₹ in Lakhs)	2025.4	1963.5	133.985	101.8

(b) C. P. Checks :

During the year 2011-12, 16 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.

11. Lost Property Office

(a) Position of unconnected/undelivered parcels :

Details	2010-11	2011-12
Opening Balance	459	856
Registration	1677	1038
Total	2136	1394
Disposal	1780	1152
Closing Balance	356	242

(b) Auction at lost property offices :

LPO	Opening Balance	Regis- tration	Total	No. of Auctions conducted	No. of items disposed through Auction	Amount realised ₹
MAS	267	576	843	30	575	16,76,497
TVC	27	48	75	10	50	34,480
MDU	16	59	75	04	58	31,227
CLT	0	131	131	08	116	1,89,645
CBE	05	65	70	07	50	60,625
QLN	08	05	13	02	03	13,705
ERS	01	30	31	07	10	21,828
TPJ	15	40	55	02	30	26,456
ED	16	84	100	04	76	40,560
KTYM	01	..	01	..	..	..
Total	356	1038	1394	74	977	21,00,113

12 Refunds on Goods Traffic

Sl. No.	Description	April to March 2010-11 2011-12	
1	Number of cases carried forward from previous year.	396	648
2	No. of cases received/re-opened during the year.	14,828	9,839
3	Number of cases disposed off during the year.	14,576	10,136
4	Number of cases on hand at the end of the year and carried forward to next year.	648	351
5	Number of cases outstanding for over 3 months but less than 6 months.	113	42
6	Number of cases outstanding for over 6 months.	125	255
7	Number of cases pending in the court at the end of the year.	1	1
8	Average time taken to settle	22.12	22.08

Registration of refund claims during April 2011 to March 2012 is 9,839 as against 14,828 during April 2010 to March 2011.

The Number of refund cases pending at the end of March 2012 is 351 as against 648 at the end of March 2011.

The Number of cases pending 3 to 6 months is 42 at the end of March 2012 as against 113 at the end of March 2011.

The Number of cases pending over 6 months is 255 at the end of March 2012 as against 125 at the end of March 2011.

The pending cases are being closely monitored and persistent efforts are being taken for early disposal of pending cases. Special attention is bestowed for clearing six months old cases and to bring down the outstanding pending cases.

13. Tabulated statement showing the comparative details of refund claims dealt with in the refund offices over Southern Railway (For the Year 2010-2011 & 2011-2012)

2010-2011										2011-2012										Percentage variation as compared to previous year	
Month & Year	Opening Balance	Receipt	Re-opened	Total for disposal	Disposed off	Closing Balance	% cleared as compared to accrual	Average Time	Amount Refunded (₹)	Month & Year	Opening Balance	Receipt	Re-opened	Total for disposal	Disposed off	Closing Balance	% cleared as compared to accrual	Average Time	Amount Refunded (₹)		
Apr'10	12960	7372	22	20354	7424	12930	101%	52	1814059	Apr'11	23575	10273	1	33849	9073	24776	88%	69	2395968	39.4%	22.2%
May'10	12930	8928	13	21871	6506	15365	73%	52	2076375	May'11	24776	10220	12	35006	11071	23937	108%	111	3155637	14.5%	70.2%
Cum		16300	35		13930		85%		3890434	Cum		20493	13		20144		98%		5551605	25.7%	44.6%
Jun'10	15365	8920	225	24510	6707	17803	75%	47	2522545	Jun'11	23937	11250	9	35196	11018	24178	98%	89	3480927	26.1%	64.3%
Cum		25220	260		20637		82%		6412979	Cum		31743	22		31162		98%		9032532	25.9%	51.0%
Jul'10	17803	10561	7	28371	7977	20394	76%	59	2859866	Jul'11	24178	14449	15	38642	12722	25920	88%	78	3480927	36.8%	59.5%
Cum		35781	267		28614		80%		9272845	Cum		46192	37		43884		95%		12513459	29.1%	53.4%
Aug'10	20394	9463	15	29872	7471	22401	79%	62	2611774	Aug'11	25920	12385	12	38317	11588	26729	94%	53	3049965	30.9%	55.1%
Cum		45244	282		36085		80%		11884619	Cum		58577	49		55472		95%		15563424	29.5%	53.7%
Sep'10	22401	7155	16	29572	7815	21757	109%	61	3223488	Sep'11	26729	11909	5	38643	7627	31016	64%	55	2183605	66.4%	-2.4%
Cum		52399	298		43900		84%		15109107	Cum		70486	54		63093		90%		17747023	34.5%	43.7%
Oct'10	21757	9094	11	30862	10796	20066	119%	59	2682589	Oct'11	31016	15545	9	46570	9152	37418	59%	61	2671799	70.9%	-15.2%
Cum		61493	309		54596		89%		17790696	Cum		86031	63		72251		84%		20418528	38.9%	32.1%
Nov'10	20066	10619	18	30703	9980	20723	94%	56	2986153	Nov'11	37418	15095	28	52541	10720	41821	71%	71	2979148	42.2%	7.4%
Cum		72112	327		64576		90%		20776849	Cum		101126	91		82971		82%		23397977	40.2%	28.3%
Dec'10	20723	8803	15	29541	8653	20888	98%	54	2528190	Dec'11	41821	9828	28	51677	11371	40306	116%	67	3284429	11.6%	31.4%
Cum		80915	342		73329		91%		23305039	Cum		110954	119		94342		85%		26682406	37.1%	28.7%
Jan'11	20888	9178	100	30166	8931	21235	97%	55	2826845	Jan'12	40306	14406	17	54729	11413	43316	79%	89	4774731	57.0%	27.8%
Cum		90093	442		82269		91%		26131884	Cum		125350	136		105755		84%		31457137	39.1%	28.6%
Feb'11	21235	10002	107	31344	9921	21423	99%	68	3980607	Feb'12	43316	10993	53	54362	17230	37132	157%	101	5170200	9.9%	73.7%
Cum		100095	549		92181		92%		30112491	Cum		136353	189		122985		90%		36627337	36.2%	33.4%
Mar'11	21423	14900	10	36333	12758	23575	86%	62	4194277	Mar'12	37132	11061	8	48221	26267	21954	237%	111	6882558	-25.6%	105.9%
Cum		114995	559		104939		91%		34306768	Cum		147434	197		149252		101%		43509895	28.2%	42.2%

14. Computerisation of Claims
Web-Enabled Claims of Indian Railways

The Web enabled Claims envisages the computerization of Claims Offices, Goods Refunds Offices, Railway Claims Tribunal. The project has been implemented at all Zonal and Headquarters of Indian Railways and all Benches of Railway Claims Tribunal.

The Claims application is centralized web based application which is hosted in CRIS. The Claims application is based on centralized architecture which rides on Freight Operation Information System (FOIS) telecom network of IR.

Connectivity from CRIS to Claims Office

In Web Claims rollout, the existing LAN of FOIS at stations has been extended to Claims Offices through LAN Extender on telecom cable.

Public can now register their Claims online and also view the status of registered claims accessing site www.claims.indianrail.gov.in

Monthly PCDO to MT is being sent 'On line'.

15. Ticketless Travel

The comparative statistics are given below :

Year	Total No. of cases of Ticketless Travel	Amount realised There from (₹)
2010-11	614829	25,28,12,209
2011-12	700423	27,35,48,817

16. Ticket Checking Details of Detection of Irregular travel

The cases of irregular travel detected, excess charges recovered and cases dealt with the Court during 2011-2012 are as under :—

	₹
1. No. of Passengers found travelling irregularly	7,00,423
2. No. of cases unbooked/partially booked luggage	1,91,925
3. Total Penalty earnings from (1) and (2) above	30,54,79,865
4. Gross ticket checking earnings including non-penalty earnings.	62,05,03,527
5. No. of Passengers prosecuted	29,613
6. No. of Passengers imprisoned	94
7. No. of Passengers fined	29,317
8. No. of Passengers let-off..	202
9. Amount of Judicial Fine Realised	88,50,492
10. No. of Mendicants ejected	25,599
11. Total cost incurred on Ticket Checking Staff	1,03,31,32,803

17. 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 closely liaise with Importers/Exporters and port management for capturing additional/new traffic wherever possible. Primary advantages of the scheme is that Marketing Wing of Railway act as a "Single Window" clearance 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	2011-12	
		Tonnage 000's	Earnings (₹ in Crores)
1	Imported Coal.. ..	3,053	169.57
2	Imported Fertilizer ..	1,014	83.39
3	Imported Limestone ..	2,140	133.20
4	Imported Dolomik ..	713	44.02

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	
	2010-11	2011-12	2010-11	2011-12
a. High Rated Traffic	554	379	56.67	56.65
b. Programmed Traffic	29,807	33,151	1,198.59	1,498.84
c. Low rated Traffic	2,073	2,175	132.32	153.62
d. Other Revenue Traffic	2,672	3,652	170.71	246.44

3. The originating goods loading over Southern Railway during 2011-12 was 39.359 Million Tonnes as against 35.107 Million Tonnes during 2010-11. Similarly the originating Goods Earnings during 2011-12 were 2,052.27 Crores as against 1,641.61 Crores during 2010-11.

4. Loading of High rated commodities and other goods.

There was considerable increase in loading under the following commodities in 2011 - 12 compared to 2010 - 11.

Sl. No.	Commodity	2010-11	2010-11	2011-12	2011-12
		Tonnes in lakhs	Earnings in lakhs	Tonnes	Earnings
	High rated commodity				
1	Machinery (Except Electrical)	1758	28.96	1971	31.61
2	Caustic Soda & Ash	628	1.63	2,640	1.72
	Other commodity				
1	Oil Cake	7898	8.20	9,257	13.63
2	Charcoal & Fire wood.	1,66,008	1627.35	2,03,404	2,222.24

5. Automobile Traffic :

As a result of continuous liaison and effective marketing contacts with Automobile Traders, Southern Railway has moved 54 rakes with total revenue of ₹ 8.25 Crores during 2011-12.

6. Parcel

The Parcel loading during 2011-12 was 5.95 lakhs of tonnes with an earnings of ₹ 154.37 Crores as against 5.40 lakhs of tonnes with earnings of ₹ 139.64 Crores during 2010-11.

Under FSLR, AGC and round trip VP leasing scheme, Southern Railway had earned ₹ 79.95 Crores during the year 2011-12.



VII. MECHANICAL ENGINEERING

ANNEXURE 'C'

Stock on Line

(a) Rolling Stock

The particulars of Rolling Stock on line owned at the end of March 2012 as compared to the previous year :—

As on 31st March 2012	Locomotives						Passenger and other Coaching Vehicles		Rail Car in units		Locomotives & EMU's 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.	T. C.
Previous year 2010-2011	333	295	66	..	10	23	5,352	97	-	-	333	237	477
Current year 2011-2012	371	306	75	..	10	23	5,711	63	-	-	371	239	480

As on 31st March 2012	Wagon in Units		Travelling Cranes					
			BROAD GAUGE			METRE GAUGE		
	B. G.	M. G.	Steam	Diesel	Hand	Steam	Diesel	Hand
Previous year 2010-2011	9,888	370	..	3	..	7	..	..
Current year 2011-2012	9,753	287	..	5	..	5	..	..

2. Additions and Renewal

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

(a) Wagon built by wagon building firms and Railway Workshop (2011-2012)

Name of the Firm	Type	No. in Vehicle units	No. in 4-Wheelers units
Broad Gauge Stock	Nil	Nil	Nil
M/s. BESCO Ltd.,	BOBYN	40	—
M. G. STOCK	Nil	Nil	Nil

3. Locomotives Online with their Tractive efforts

(a) Steam Locos

As on 31st March 2012	Broad Gauge		Metre Gauge	
	No.	Total Tractive Efforts (Kgs.)	No.	Total Tractive Efforts (Kgs.)
Previous Year 2010-2011	..	..	10	1,18,812
Current Year 2011-2012	..	..	10	1,18,812

(b) Diesel Locomotives

As on 31st March 2012	Broad Gauge		Metre Gauge	
	No.	Total Tractive Efforts (Kgs.)	No.	Total Tractive Efforts (Kgs.)
Previous Year 2010-2011	338	89,54,560	23	4,41,600
Current Year 2011-2012	358	9,16,195	23	4,41,600

2.2 Goods Stock Transferred from other Railways

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

(c) Electrical Locomotives

Particulars	Broad Gauge	
	Nos.	Horse Power
As on 31st March Previous Year, 2010-11.	WAM 4-42 WAP1-26 WAP 4-133 WAG 7-71 WAG5A/HA-61	1,52,880 98,800 6,72,980 3,55,000 2,34,850
Current year 2011-12	WAM 4-32 WAP1-33 WAP 4-144 WAG 7-71 WAG5A/HA-91	11,64,80 1,25,400 7,28,640 3,55,000 3,50,350

4. Coaches Vehicles and seating capacity (Except EMU)

As on 31st March current year 2011-12	Pass. Coaches (No. in units)	Other Coaching Vehicle (No. in units)	Total Seats		
			Air condition	Ist Class	II Class Berths Seats
Broad Gauge	5137	496	46081	1404	135900 332832
Metre Gauge (including N. M. Railway)	55	8	..	370	.. 2459

5. Goods Vehicles and carrying capacity

As on 31st March current year 2011-12	Public Traffic Wagons			Capacity in tonnes	Special wagons including Brake wagons (No. in units)	Dept. Railway Service wagons (No. in units)	Total Goods vehicles (No. in units)
	Covered Wagons	Open Wagons	No. in units				
Broad Gauge	5414	29227.5	3168	177528.5	1180	2	9764
Metre Gauge (Incl. N. M. Railway)	276	9779.4	20	786.3	7	6	309

6. Diesel Rail Cars

As on 31st March 2012	(A) Motor Coaches		(B) Trailer Coaches	
	No. in units	Total Seats	No. in units	Total seats
Previous year 2010-11	..	..	..	..
Broad Gauge	..	..	..	..
Metre Gauge	..	..	..	..
Narrow Gauge	..	..	..	..
Current year 2011-12	..	..	..	..
Broad Gauge	..	..	..	..
Metre Gauge	..	..	..	..
Narrow Gauge	..	..	..	..

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	
	2010-2011		2011-2012		2010-2011		2011-2012	
	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

(a) Electric Locomotive (Broad Gauge)

Age Group Years	2010-2011		2011-2012	
	Nos.	Percentage	Nos.	Percentage
Less than 1 Year	..	0	5	1.35
1 to 5 Years	..	69	68	18.33
6 to 10 Years	..	52	50	13.48
11 to 15 Years	..	83	92	24.80
16 to 20 Years	..	35	54	14.55
21 to 25 Years	..	47	61	16.44
26 to 30 Years	..	9	5	1.35
Above 30 Years..	..	38	36	9.70
Total	..	333	371	100.00

Electrical Multiple Units

Particulars	Motor Coaches		Trailer Coaches	
	Nos.	Horse Power	Nos.	Horse Power
As on 31st March 2010-2011	..	..	..	..
Broad Gauge	237	25359	477	46712
As on 31st March 2011-2012	..	..	..	..
Broad Gauge	239	25573	480	47006

7. Travelling Cranes

As on 31st March 2012	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 2010-11.	..	..	3	140T X 3	..	..
Broad Gauge Current year 2011-12.	..	..	5	140T X 5	..	..
Metre Gauge Previous year 2010-11.	7	35T X 7	..	..	..	..
Metre Gauge Current year 2011-12.	3	35T X 3	..	..	..	..

(b) Passenger Coaches

Age Group Years	<u>Broad Gauge</u>				<u>Metre Gauge</u>			
	<u>Previous</u>		<u>Current</u>		<u>Previous</u>		<u>Current</u>	
	<u>Financial</u>	<u>Year</u>	<u>Financial</u>	<u>Year</u>	<u>Financial</u>	<u>Year</u>	<u>Financial</u>	<u>Year</u>
1 to 5	1150	23.48	1139	22.17	..	..	..	..
6 to 10	1155	23.60	1173	22.84	5	8.33	..	..
11 to 15	1333	27.23	1287	25.05	..	..	2	6.66
16 to 20	760	15.52	970	18.88	..	..	4	13.37
21 to 25	467	9.54	538	10.47	19	31.67	9	30.00
26 to 30	30	0.61	30	0.59	35	58.34	15	50.00
31 to 35	..	..	..	..	1	1.66	..	..
Over 35	1	0.02	..	..	..	..	..	..
Total	4896	100.00	5137	100.00	60	100.00	30	100.00

(i) Motor Coaches (a) Broad Gauge

Age Group Years wise	<u>2010-2011</u>		<u>2011-2012</u>	
	<u>Nos.</u>	<u>Percentage</u>	<u>Nos.</u>	<u>Percentage</u>
Broad Gauge				
1 to 5 Years	68	28.69	47	19.67
6 to 10 Years	85	35.86	102	42.68
11 to 15 Years	41	17.30	43	17.99
16 to 20 Years	26	10.97	29	12.13
21 to 25 Years	3	1.27	5	2.09
26 to 30 Years	6	2.53	2	0.84
Above 30 Years	8	3.38	11	4.60
Total	237	100.00	239	100.00

(ii) Trailer Coaches

Age Group Years	<u>2010-2011</u>		<u>2011-2012</u>	
	<u>Nos.</u>	<u>Percentage</u>	<u>Nos.</u>	<u>Percentage</u>
1 to 5 Years	136	28.51	95	19.79
6 to 10 Years	159	33.33	206	42.91
11 to 15 Years	102	21.38	78	16.25
16 to 20 Years	45	9.44	84	17.50
21 to 25 Years	18	3.77	3	0.63
26 to 30 Years	2	0.42	0	0
Above 30 Years	15	3.15	14	2.92
Total	477	100.00	480	100.00

(c) Wagons

General Services

Age Group Year	<u>Broad Gauge</u>				<u>Metre Gauge</u>			
	<u>Previous</u>		<u>Current</u>		<u>Previous</u>		<u>Current</u>	
	<u>Financial</u>	<u>Year</u>	<u>Financial</u>	<u>Year</u>	<u>Financial</u>	<u>Year</u>	<u>Financial</u>	<u>Year</u>
	<u>2010-2011</u>	<u>2011-2012</u>	<u>2010-2011</u>	<u>2011-2012</u>	<u>2010-2011</u>	<u>2011-2012</u>	<u>2010-2011</u>	<u>2011-2012</u>
	No.	%	No.	%	No.	%	No.	%
1 to 5	318	3.92	..	..	..	..	..	..
6 to 10	11	0.13	318	3.95	..	..	..	..
11 to 15	4812	59.36	4127	51.25	..	..	..	..
16 to 20	727	8.97	1052	13.06	12	4.25	12	5.33
21 to 25	1997	24.64	2141	26.59	180	63.83	176	78.23
26 to 30	205	2.53	380	4.73	19	6.74	9	4.00
31 to 35	5	0.06	1	0.01	71	28.18	28	12.44
36 to 40	18	0.22	18	0.22	..	..	..	..
Over 40	14	0.17	15	0.19	..	..	..	..
Total	8107	100.00	8052	100.00	282	100.00	225	100.00

9. Overaged Rolling Stock on line

(a) Overaged Steam Locomotives on line as on 31st March 2012 (Current Year) Steam

<u>BROAD GAUGE</u>											<u>METRE GAUGE</u>									
											</									

(ii) Number of locomotives put off and new locomotives put on line during the year (Current Financial Year) 2011–2012.

Particulars	BROAD GAUGE			METRE GAUGE		
	Steam	Diesel	Electric (A/C.)	Steam	Diesel	Electric (A/C.)
1. No. of locomotives taken off the line	..	4	6	..	..	..
2. No. of locomotives placed on line	..	22	11	..	..	..
3. No. of locomotives permanently transferred from other Railway.	..	0	37	..	..	..
4. No. of locomotives permanently transferred to other Railway.	..	..	4	..	..	..

(c) Overaged Coaching Stock on line as on 31st March 2012 —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	814	..	814	3	..	3	0.05	5	..	5	
2. Upper Class (First)	36	..	36	1	..	1	0.02	..	..	..	
3. Composite Class	..	..	..	..	..	..	0.00	..	..	..	
4. Lower Class (Second).	4,285	..	4,285	26	..	26	0.46	36	..	36	
5. Tourist Car Inspection. Carriage and Dining Cars.	117	..	117	1	..	1	0.02	2	..	2	
6. All other coaching Vehicles excluding these under item 5.&PPS.	381	..	381	46	..	46	0.82	1	..	1	
Total	..	5,633	..	5,633	77	..	77	1.37	44	..	44

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 2011-2012			
	Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total		Non-Replaced	Replaced	Total	
METRE GAUGE—COACHES											
1. Air-conditioned Class.	..	..	..	..	..	..	..	..	..	..	
2. Upper Class (First)	4	..	4	..	..	..	..	..	..	..	
3. Composite Class	..	..	..	..	..	..	0.00	..	..	..	
4. Lower Class (Second)	24	..	24	..	..	..	0.00	32	..	32	
5. Tourist Car Inspection Carriage and Dining Cars.	2	..	2	2	..	2	6.25	..	..	..	
6. All other coaching Vehicles excluding those under item. 5 & PPS	2	..	2	1	..	1	3.13	2	..	2	
Total	..	32	..	32	3	..	3	9.38	34	..	34

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

<i>RAIL BUS</i>			
YRB	1	0	1

(d) Overaged wagon stock on line as on 31st March 2012 (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 2011-12		
	Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total		Non-Replaced	Replaced	Total
BROAD GAUGE—WAGONS										
1. Covered	4884	..	4884	23	..	23	0.24	11	..	11
2. Open	3168	0	3168	11	0	11	0.11	44	0	44
3. Brake-vans	269	0	269	14	0	14	0.14	5	0	5
4. Tank Wagons	530	0	530	73	0	73	0.75	85	0	85
5. Special Stock	911	0	911	36	0	36	0.37	5	0	5
6. Railway Service Wagons.	2	0	2	1	0	1	0.01	0	0	0
Total	9764	0	9764	158	0	158	1.62	150	0	150

METRE GAUGE—WAGONS										
1. Covered	207	0	207	38	0	38	12.79	39	0	39
2. Open	18	0	18	9	0	9	3.03	18	0	18
3. Brake-vans	7	0	7	0	0	0	0.00	1	0	1
4. Tank Wagons	65	0	65	36	0	36	12.12	8	0	8
5. Special Stock	0	0	0	0	0	0	0.00	0	0	0
6. Railway Service Wagons.	0	0	0	0	0	0	0.00	4	0	4
Total	297	0	297	83	0	83	27.95	70	0	70

Particulars	BROAD GAUGE		METRE GAUGE	
	Coaches	Wagons	Coaches	Wagons
Number put off the line during the year 2011-2012.	46	150	34	70
Number put on line during the year 2011-2012.	327	40	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	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	23.9	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	..	..	..
Previous 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	0.00	0.00	-	-	0.00	0.00	..	..	..
Diesel Hydraulic	..	..	..	..	..	..	..	..	..	..	..	..	..
Electric	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	26.41	2.42	9.16	1.54	5.83	-	-	0.88	3.33	..	..	..
Current Financial Year	2011-2012	BROAD GAUGE											
Diesel Electric	..	297.00	25.30	8.52	6.7	2.26	-	-	18.6	6.26	..	..	..
Diesel Hydraulic	..	21.17	1.66	7.84	0.70	3.31	-	-	0.96	4.53	..	..	..
Electric	..	354.27	26.74	7.55	5.85	1.65	-	-	20.89	5.90	..	..	..
Total	..	672.44	53.7	7.99	13.25	1.97	-	-	40.45	6.02	..	..	..
Current Financial Year	2011-2012	METRE GAUGE											
Steam	..	9.00	3.88	43.11	1.76	19.56	-	-	2.12	23.56	..	..	..
Diesel Electric	..	13.00	0.00	0.00	0	0.00	-	-	0	0.00	..	..	..
Diesel Hydraulic	..	..	..	..	..	..	..	..	..	..	..	..	..
Electric	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	22.00	3.88	17.64	1.76	8.00	-	-	2.12	9.64	..	..	..

(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)	No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage
<u>BROAD GAUGE</u>													
<i>Passenger Coaching Vehicles—</i>													
2010–2011	..	..	4874	362.79	7.44	217.02	4.45	53.11	1.09	36.74	0.75	55.91	1.15
2011–2012	..	..	5018	293.34	5.85	163.69	3.26	69.04	1.38	18.04	0.36	42.59	0.85
<i>Other Coaching Vehicles—</i>													
2010–2011	..	..	286	23.26	8.13	13.17	4.60	1.61	0.56	5.79	2.02	2.69	0.94
2011–2012	..	..	293	20.57	7.02	10.49	3.58	3.00	1.02	4.61	1.57	2.47	0.84
<i>All Coaching Vehicles—</i>													
2010–2011	..	..	5160	386.05	7.48	230.19	4.46	54.72	1.06	42.53	0.82	58.60	1.14
2011–2012	..	..	5311	313.91	5.91	174.18	3.28	72.04	1.36	22.65	0.43	45.06	0.85

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*Passenger Coaching Vehicles—*

2010–2011	..	..	84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2011–2012	..	..	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Other Coaching Vehicles—

2010–2011	..	..	1	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
2011–2012	..	..	0	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00

All Coaching Vehicles—

2010–2011	..	..	85	0.00	0.00	0.00	0.00	0	0.00	0	0.00	0.00	0.00
2011–2012	..	..	28	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>									
2010–2011	8,200	503.00	6.13	95	1.16	211	2.57	197.58	2.41
2011–2012	8,350	528.00	6.32	85	1.02	216	2.59	226.92	2.72
<u>METRE GAUGE</u>									
2010–2011	93.00	0	0.00	0	0.00	0	0.00	0	0.00
2011–2012	0.00	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	
						Calendar days	Working days excluding Sundays and Shop Holidays
Previous Financial Year 2010-2011	1	..	..	1	2.00	595	474
Current Financial Year 2011-2012	..	..	..	..	..	..	..

The kilometres between periodical overhaul of loco No. 37386

Previous Financial Year 2010-2011 13062 Kms.

Current Financial Year 2011-2012 .. Nil.

(b) Over aged coaching and wagon stock on line as on 31st March 2012

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.	%
Broad Gauge												
2010-2011	320.04	100	23.90	7.47	..	..	..	..	23.90	7.47	..	..
2011-2012	354.27	100	Coaching 20.95 Goods 16.99	10.26 11.32	..	..	..	..	Coaching 20.95 Goods 16.99	10.26 11.32	..	..

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

2010-2011	237.50	100	16.74	7.05	..	..	..	..	16.74	7.05	..	..
2011-2012	237.50	100	17.43	7.32	..	..	..	..	17.43	7.32	..	..

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

Shop	Activity	Previous Financial Year 2010-2011				Current Financial Year 2011-12			
		Periodical Over hauling	Off Schedule		Total	Periodical Over hauling	Off Schedule		Total
			Over	Below			Over	Below	
			Rs. 100	Rs. 100			Rs. 100	Rs. 100	
BROAD GAUGE									
Perambur Carriage Works —									
Passenger Coaches	PCVs	2055	92.0	0	2147.0	1597	126.2	0	1723.2
Other Coaches	OCVs	202	1.2	0	203.2	207	0	0	207.0
	Total	2257	93.2	0	2350.2	1804	126.2	0	1930.2
Perambur Loco Works—									
Passenger Coaches	PCVs	522	18.4	0	540.4	435	4.7	0	439.7
Other Coaches	OCVs	0	0	0	0	0	0	0	0
	Total	522	18.4	0	540.4	435	4.7	0	439.7
	DTC/TCs of DEMU	70	0	0	70	58	0	0	58
Golden Rock Workshops —									
Passenger Coaches	PCVs	842	29.2	0	871.2	675	75.5	0	750.5
Other Coaches	OCVs	50	0	0	50.0	52	0	0	52
	Total	892	29.2	0	921.2	727	75.5	0	802.5

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	31	0	0	31.0	4	0	0	4
Other Coaching Vehicles	OCVs	0	0	0	0	0	0	0	0
	Total	31	0	0	31.0	4	0	0	4

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

Shop	2010-2011			2011-2012		
	Periodical Overhaul	Off. Schedule	Total	Periodical Overhaul	Off. Schedule	Total
BROAD GAUGE						
Perambur Carriage Works ..	3,036	0	3,036.0	2,653	0	2,653
Golden Rock Shops ..	0	0	0	0	0	0
	Total	3,036	3,036.0	2,653	0	2,653
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
	2010-2011	2011-2012	2010-2011	2011-2012
Passenger Coaches—				
Perambur Carriage Works ..	13.1	14.4	..	..
Perambur Loco Works ..	9.38	10.95	..	..
Golden Rock ..	17.1	17.0	16.8	..
Other Coaching Vehicles—				
Perambur Carriage Works ..	8.8	11.8	..	..
Perambur Loco Works ..	..	..	..	..
Golden Rock ..	21.1	15.5	..	..
Wagons—				
Perambur Carriage Works ..	4.6	4.5	..	..
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
	2010-2011	2011-2012	2010-2011	2011-2012
	(Actuals)	(F. M.)	(Actuals)	(F. M.)

Locomotives

(i) Unit repair cost (per loco)				
Driving power car of DEMU	2807	3096	No Activity	
LW/PER				
Dsl. Hyd. LW/PER	2888	4292		
AC Electric LW/PER	7863	9090		
Dsl. Elec. GOC	8550	8550		6275

(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
	2010-2011	2011-2012	2010-2011	2011-2012
	(Actuals)	(F. M.)	(Actuals)	(F. M.)
(ii) Average cost of repairs per passenger carriage (in FWU's)— PCVs-POH				
Carriage Works/Perambur	574	720	No Activity	
Loco Works/Perambur	620	633		
Golden Rock	263	336	197	228
Driving Trailer coach of DEMU — POH LW/PER	597	856		
Trailer coach of DEMU — POH LW/PER	575	802	No Activity	
(iii) Average cost of repairs per other coaching vehicles (in FWU's)— OCVs-POH				
Carriage Works/Perambur	415	484	No Activity	
Loco Works/Perambur	..	..		
Golden Rock Workshops	189	239	135	..
(iv) Average cost of repairs per wagon (FWU's).— Wagons-POH				
Carriage Works/Perambur	117	224	No Activity	
Golden Rock Workshops	..	..	..	..

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

	Years	
	2010-2011	2011-12
(i) Average cost of maintenance and repairs per locomotive (Electrical)		
Broad Gauge ..	..	19.67
Metre Gauge ..	..	..
(ii) Average cost of maintenance and repairs of EMU coach unit		
Broad Gauge ..	..	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 March 2011		Year as on 31st March 2012		Year as on 31st March 2011		Year as on 31st March 2012	
	No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage
(i) Locomotives—								
(a) Steam	Nil	Nil	Nil	Nil	1	11.1	1	10.0
(b) Diesel Electric ..	3	1.05	1	0.36	0	0	0	0
(c) Diesel Hydraulic ..	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
(ii) Coaches—								
(In VUs)	10	0.19	32	0.57	0	0	0	0

13. Engine Failures (Diesel Locos)

(Kms. in thousands)

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 2010–2011	110	335300	104	-	6	252474	@@	1770949*
Current Financial Year 2011–2012	126	294669	115	-	11	240110	@@	865051*
Diesel Hydraulic Locos—								
Previous Financial Year 2010–2011	..	4263*	..	..	..	@@	@@	4263*
Current Financial Year 2011–2012	..	2448*	..	..	..	@@	@@	2448*
<u>METRE GAUGE</u>								
Diesel Electric Locos—								
Previous Financial Year 2010–2011	..	509516*	..	..	..	509246*	@@	270*
Current Financial Year 2011–2012	..	386470*	..	..	..	352964*	@@	33506*
Diesel Hydraulic Locos—								
Previous Financial Year 2010–2011	..	..	..	..	..	..	..	..
Current Financial year 2011–2012	..		..	..	..	..	..	..

Note.—* Denotes total engine Kms. without failure.

@@ There are no services.

Engine Failures (Electrical) 2010–2011 and 2011–2012

(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>								
2010–2011	46	13.31	36	..	10	11.67	..	19.22
2011–2012	40	17.13	35	..	5	12.65	..	48.46

Energy and Amount particulars of traction and Non-traction

Sl. No.	Description	Year	
		2010-11	2011-12
1	Traction consumption in million units	911.750	936.557
2	Non-traction consumption in million units	123.856	118.684
3	Total in million units	1035.606	1055.24
4	Traction amount paid ₹ in crores	435.467	454.449
5	Non-traction amount paid ₹ in crores	66.58	66.727
6	Total ₹ in crores	502.05	521.219
7	Traction Average rate ₹./kwh	4.78	4.85
8	Non-traction average rate ₹./kwh	5.38	5.62
9	Total	4.84	4.93

Engine Failures (Steam) 2010-11 and 2011-12

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
2010-2011	22	849	22	..	..	849	..	..
2011-2012	22	883	22	..	..	883	..	..

Engine Failures (Diesel Locos)

Total No. statistical Engine Failures	..	B. G.	126	M. G.	0
Average Kms. per Engine Failures (in Lakhs)	..	B. G.	3.45	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 2010–2011	6	4	2	..	(+) 300	0.20
Current Financial Year 2011–2012	8	6	2	..	(+) 33.33	0.27
METRE GAUGE						
Previous Financial Year 2010–2011	..	..	..	..	..	..
Current Financial Year 2011–2012	..	..	..	..	..	..
(ii) Goods—						
BROAD GAUGE						
Previous Financial Year 2010–2012	24	8	16	..	(-) 18.88	0.45
Current Financial Year 2011–2012	30	5	25	..	(-) 25.0	0.52
METRE GAUGE						
Previous Financial Year 2010–2011	..	..	..	..	..	..
Current Financial Year 2011–2012	..	..	..	..	..	..

Note.— (+) Denotes increase in the figures.

(-) Denotes decrease in the figures.

Shedwise yearly outage—2011-2012 B. G. (Mechanical)—Goods

Month	TARGET					ACTUAL				
	ED	GOC	ERS	TNP	TOTAL	ED	GOC	ERS	TNP	TOTAL
April	36.0	23.8	10.2	0.9	70.9	39.4	30.2	11.7	1.0	82.3
May	36.6	26.3	9.3	0.0	71.2	39.5	28.6	8.4	0.5	76.9
June	34.9	23.7	9.4	0.0	68.0	39.1	27.3	8.9	0	75.3
July	34.9	24.6	11.2	2.4	73.1	37.6	27.8	9.8	2.2	77.2
August	34.9	27.2	10.3	0.6	73.0	39.0	29.4	9.3	1.0	78.7
September	34.9	27.1	9.4	0.6	72.0	36.8	30.3	8.3	0.1	75.50
October	33.1	28.9	10.0	0.0	72.0	35.8	32.8	9.0	-0.5	77.10
November	35.3	29.2	8.5	0.0	73.0	38.5	31.3	8.2	-0.1	77.9
December	39.2	27.8	7.2	1.3	75.5	41.4	30.7	5.7	1.1	78.9
January	36.4	27.7	9.2	0.5	73.8	38.4	30.5	8.4	0.4	77.7
February	37.3	26.9	9.1	0.5	73.8	39.6	30.9	6.9	-0.2	77.2
March	35.6	28.4	8.3	0.6	72.9	39.5	32.0	5.9	0.7	78.1
Total	429.1	320.6	112.1	7.4	869.2	464.6	361.5	100.5	6.2	932.8
Average	35.8	26.7	9.3	0.6	72.4	38.7	30.1	8.4	0.5	77.7



VIII. ELECTRICAL ENGINEERING

1. Electrical Energy Generation, Purchase, Sales and Consumption.

The following are the figures pertaining to the years 2010-11 and 2011-12 and kWh in Millions :—

Sources of Power	Generated (sent out from bus bars)	Purchase		Total	
		2010-11	2011-12	2010-11	2011-12
Energy Purchase from State Electricity Board in million Unit					
(a) General Service					
(i) Tamil Nadu	103.584	98.797	..	..	..
(ii) Andhra Pradesh ..	0.674	0.631	..	..	..
(iii) Karnataka	1.480	1.548	123.856	118.684	..
(iv) Kerala	18.118	17.708	..	..	..
(b) Traction Services					
(i) Tamil Nadu	678.391	706.571	..	..	..
(ii) Andhra Pradesh ..	76.966	77.38	..	..	..
(iii) Karnataka	..	..	911.750	936.557	..
(iv) Kerala	156.393	152.603	..	..	..
Total	..	..	1035.606	1055.24	..

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	2010-11	2011-12
(i) Energy Purchase	In Million kWh	1035.606	1055.24	..
(ii) Total Cost	(Rs. in Crores)	502.050	521.219	..
(iii) Average rate per kWh		4.85	4.93	..

3. Analysis of total electrical energy consumed for various services in terms of percentage of the total energy purchase 2011-12

Percentage

a. Major workshops (15.388 Million Units)	1.45
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 (11.559 mu) ..	1.10
(ii) Service Buildings (48.060 mu) ..	4.55
(iii) Yard lighting (3.470 mu) ..	0.34
(iv) Hospitals (5.830 mu) ..	0.55
c. Staff quarters and staff welfare buildings, (34.379 mu).	3.26
d. Traction Services (936.557 Million Units)	88.75

4. Generating and Purchasing Stations as on 31st March 2012.

Generating Stations : There are no generating stations on this Railway, However, Diesel generating sets of capacities varying from 10kVA to 500kVA 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 2011	219	17,268	80	2917
As on 31st March 2012	219	17,268	81	3170

5. Electrical Traction Distribution (2011-12)

Particulars	Upto 31st March 2011	Upto 31st March 2012
	BG	BG
1. Total Route km Electrified	1,890	1,898
2. Total Track km Electrified	4321	4427

6. A. C. Electric Locomotives

Particulars		Broad Gauge (average for the year)	
		2010-11	2011-12
(i) Total No. of Engine on line ..	..	320.04	354.27
(ii) No. of Engine in use (average per day).	..	..	..
a. Goods Service ..	..	113.80	133.05
b. Passenger Service ..	..	173.68	183.28
c. Shunting ..	..	..	..
d. Departmental ..	..	..	..
e. Banking ..	..	..	..
f. Spare ..	..	0.82	0.73
Total average per day	..	288.30	317.06
(iii) Engine km/day/Engine in line ..	..	584	593
(all services).	..	..	..
(iv) Engine km/Day/Engine in use ..	..	606	617
(all services).I	..	..	..
(v) Total No. of failure	..	..	..
a. Passenger Service ..	..	36	35
b. Goods Service ..	..	10	5
(vi) Engine km/Engine failure	..	..	..
a. Passenger Service ..	..	1166719	1265030
b. Goods Service ..	..	1921967	4846233
(vii) Total km (Passenger and goods service).	..	61221537	68507211

7. Suburban Electric Multiple Unit Stock—Broad Gauge

	2010-11	2011-12
Holding as on 31st March 2012		
a. In terms of 4 Units (4 Coaches WAU-1 type)	237	239
b. In terms of Coaches (Motor Coaches and trailer Coaches).	477	480
c. Break up of Coaches :—No. of Coaches		
Motor Coaches ICF Coaches		
238		
(i) Kms. run in terms of single units	31364857	32797004
(ii) Total No. of Failure ..	7	4
(iii) Kms/Motor Coaches failure ..	4480694	8199251

8. Electrical General Services Particulars

	2010-11	2011-12
(i) Generating, Converting and transforming Nos. Plants.	333	319
Transformer capacity in kVA	152656	139063
(ii) Total connected loads of installations purchasing power from outside sources in kw. (in thousands)	160373	173717
(iii) Electrification of stations including block huts	728	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.	5818	4871
Capacity	30847	38347
(v) Electrical driven pump		
Nos.	1663	1687
Capacity	9991	10762
(vi) Electrified Quarters		
Nos.	28773	27718
Lights	159547	160155
Fans	89354	54476
Plugs	80623	80851

	2010-11	2011-12
(vii) Service Buildings		
Lights	123621	127829
Fans	39001	42010
Plugs	35589	37902
(viii) Ac plants and refrigeration's equipments		
AC Plants Nos.	2402	2268
Capacity Tons	5427	5189
Refrigerators Nos.	955	943
Capacity Ltrs.	157575	156975
(ix) Water coolers Nos.	771	698
Capacity Ltrs.	104387	101660
(x) Air Compressors Nos.	87	88
Capacity of Motors in HP	2351	2391
(xi) Welding sets Nos.	726	760
Capacity in Amps	113010	120705
(xii) Battery Chargers Nos.	873	960
Capacity in Amps	70950	78366
(xiii) Other installations, Miscellaneous viz., Geysers, Water distilling plants etc., Nos.	603	642
(xiv) Flood light towers in yards—		
No. of Towers	327	342
No. of Projectors k W	1297	1345
Wattage	1970	2970
(xv) Length of Transmission line (Other than Traction) km.		
HT OH	50.7	50.3
UG	181.32	188.50
LT OH	1120.94	1111.07
UG	836.33	879.06
(xvi) Power line Crossings Nos.	2843	2702

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 2012 are furnished as follows.

Self Generation AC Coaches Population—

Sl. No.	Type of coaches	Population
1	FAC	9
2	FACCW	54
3	ACCW	209
4	CZAC	32
5	ACCNJ	403
6	SWGAC	3
7	SWGACCN	5
Total		715

(b) Shatabdi/Jan Shatabdi/Garbrath/Duronto Exp. Coaches—

1	FCZACEN	2
2	CZACEN	12
3	WLRRM	2
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 2011 to 31st March 2012

Sl. No.	Train No.	From	To	Type of AC Coach	Frequency	Date of Introduction
1	2261/02	MAS	SNSI	ACCW-1, ACCN-2	Wed	6-7-11
2	16611/12	CBE	TN	GSCN-7, GS-6 SLR-2	Daily	...-7-11
3	22607/08	ERS	SBC	ACCW-1, 2GSCN, 1GS, 2SLR.	Sun	24-7-11
4	22609/10	MAQ	PGT	CCW-1, ACCN-2, GSCN-4	..	19-11-11
5	16179/80	MS	MQ	GS-3, SLR-2, CZAC-1, GSCZ-1, GS-6, SLR-2.	Daily	27-9-11
6	16349/50	TVC	NIL	FACCW-1, ACCW-1, ACCN-1	Daily	16-11-11
7	22604/03	VM	KGP	GSCN-7, GS-6, SCR-2, ACCN-1, GSCN-2, GS-2, SLR-2, ACCW-1, ACCN-1, GSCN-6, GS-6, SLR-2.	Monday	20-2-12

Augmentation (Addition/deletion) in the rank link in the composition of Express trains during the period 2011-2012

Sl. No.	Train No.	From	To	Date of Introduction	Type of AC/TL coaches	Frequency	Total No. of coaches
1	12664/63	TPJ	HWH	14- 2-12	GSCN-2	Bi-Weekly	23
2	12653/54	TPJ	MAQ	17- 2-12	GSCN-2	Weekly	21
3	12633/34	MS	CAPE	10- 2-12	ACCW-1	Daily	23
4	12753/54	MAS	NJP	29- 2-12	ACCN-1	Weekly	21
5	16031/32	MAS	JAT	29- 2-12	GSCN-1	Tri-Weekly	17
6	16093/94	MAS	LKO	6- 3-12	GSCN-1	Bi-Weekly	18
7	16041/42	MAS	ALLP	2- 3-12	ACCN-1	Daily	23
8	12695/96	MAS	TVC	4- 3-12	ACCN-1	Daily	23
9	12643/44	TVC	NZM	20- 3-12	ACCW-1/GSCN-1	Weekly	22
10	22601/02	MAS	SNSI	21- 3-12	GSCN-1	Weekly	18
11	12617/18	ERS	NZM	26- 3-12	GSCN-1	Daily	20
12	12645/46	ERS	NZM	31- 3-12	ACCN-1/GSCN-2	Weekly	18
13	12287/88	KCNL	DDN	30- 3-12	GSCN-1	Weekly	13
14	16735/36	MS	TCN	27-12-11	GSCN-1	Daily	19
15	16179/80	MS	MQ	25-12-11	GSCN-1	Daily	19
16	16346/45	TVC	LT(T)	23-12-11	GSCN-1	Daily	22
17	16780/79	MDU	TPTY	24-12-11	GSCN-1	Bi-Weekly	16
18	12611/12	MAS	NZM	24-12-11	GSCN-1	Weekly	16
19	12753/54	MAS	NJP	21-12-11	GSCN-1	Weekly	19
20	16735/36	MS	TCN	29- 1-12	GSCN-1	Daily	20
21	16179/80	MS	MQ	27 1-12	GSCN-1	Daily	20
22	12789/90	RMM	CAPE	28- 1-12	GSCN-2	Tri-Weekly	14
23	16780/79	MDU	TPTY	2- 2-12	GSCZ-1	Bi-Weekly	18
24	12758/57	CBE	TPTY	29- 1-12	GSCZ-2	Tri-Weekly	17
25	12544/43	TPTY	YPR	29- 1-12	GSCN-1	Tri-Weekly	17
26	16303/04	ERS	TVC	26- 1-12	GSCZ-2	Daily	18
27	16341/42	GUW	TVC	27- 1-12	GSCN-1	Daily	17
28	16316/15	KCVL	SBC	18- 2-12	ACCN-1/GSCN-2	Tri-Weekly	23
29	16322/21	TVC	SBC	15- 2-12	ACCN-1/GSCN-1	Weekly	20
30	16332/31	TVC	CSTM	18- 2-12	ACCN-1/GSCN-2	Weekly	20
31	12753/54	MAS	NSP	1- 2-12	GSCN-1	Weekly	20
32	16715/16	MS	KIK	24- 1-12	GSCN-1	Daily	18
33	16865/66	KIK	ERS	25- 1-12	GSCN-1	Daily	19
34	16614/13	CBE	RJT	26- 1-12	ACCN-1	Weekly	21
35	12788/87	TEN	ESP	29- 1-12	ACCN-1/GSCN-2	Weekly	20
36	22601/02	MAS	SNSI	25- 1-12	GSCN-2	Weekly	18

Introduction of Incentive Scheme

Progress of introduction of Incentive Scheme :—

Sl. No.	Position as on 31st March 2011	Name of Workshops	
		Perambur	Ponmalai
1	Total strength to be brought under incentive.	TLW-348, LTL-82, DLX-303, ACEW-21, EW-99, LW-75 & CW-74-Total = 1002.	Artizan-325 Supervisors-13
2	Total No. of men put on incentive in any month during the year.	TLW-316, LTL-76, DLX-308, ACEW-21, EW-67, LW-37 & CW-23-Total = 848.	Artizan-289 Supervisors-09
3	Balance yet to be covered	TLW-32, LTL-6, DLX-(5), ACEW-0, EW-32, LW-38 & CW-51-Total = 154.	Artizan-36 Supervisors-04
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.

Sl. No.	Position as on 31st March 2011	Name of Workshops	
		Perambur	Ponmalai
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 TLW and TLT 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 LTL. EW- #	Nil
6	Average bonus earned per head per day.	₹ 83.53/-	₹ 93.185/-
7	Average increase in productivity during the year 2010-11 the period to the introduction of incentive scheme (In Units).	TLW-114, Coaches/228 Units, LTL-35 C/70 U DLX-24 C/48 U AC/EW-19, EW-68 LW/CW-##	AC & Non-AC coaches-Nil 1510 Nos. IOH Bogies have been completed during the year.

- CW and LW are Maintenance/Service shop.

- Staff are deputed to Electrical Milwright shop.

9. Financial Position-Electrical Department

A. Revenue Budget As per the demands for Grants:-

(Figs. in Lakhs of ₹)

Demand Number and Description	Budget grant 2012-13	Final Grant 2011-12
Demand No. 5		
Repairs and Maintenance of Motive Power (Electric Loco)	12361	10726
Demand No. 6		
Repairs and Maintenance of Carriages and Wagons- EMU, TL and AC	27071	25044
Demand No. 7		
Repairs and Maintenance of Plants and Equipments.	15803	13956
Demand No. 8		
Operating Expenses-Rolling stock and Equipments.	25035	24609
Demand No. 10.		
Operating Expenses-Fuel for Electric Traction.	57213	44504
Demand No.11		
Staff Welfare and Amenities - Supply of Energy for Power & lighting (J 580)	2323	2060
Total	139806	120899

B. Works Budget:-

(Figs. in Lakhs of ₹)

Demand Number and Description	Budget Grant 2012-13	Final Grant 2011-12
Plan Expenditure works controlled buy CEE/MAS (Electrical Departments)		
1. Traffic Facilities	17.20	59.28
2. Other Electrical Works	4635.00	1478.90
3. Workshops	149.47	113.61
4. Staff Amenities	38.00	244.16
5. Passenger Amenities	280.00	172.83
6. Machinery and Plants	190.46	199.51
7. Rolling Stock	1633.80	635.09
8. Other Specified Works	35.23	2.31
9. Road Safety work	20.00	38.14
Total	6999.16	2943.83

10. Railway Electrification/Chennai

Route/Track kilometre energisation in 2011-12

(a). Sections commissioned with CRS inspection

Sl. No.	Section	RKM	TKM	Date of energisation	Dt. of CRS authorisation
1	Tiruchchirappalli Jn. -Dindigul Jn.	94.230	118.280	22-3-11	R. 12047/2/ 2011-SR/458-70 dt. 30-6-2011.

(b). 25kV energisation

Sl. No.	Section	RKM	TKM	Date of 25 kV charging	Remarks
1	Thiruvananthapuram (excl)-Kanniyakumari (incl).	87.000	107.000	31-12-11	
2	Dindigul (excl)-Madurai (incl).	59.000	145.500	31-3-12	
	Total	146.000	252.500		

c. 2.2 kV Anti theft Energisation

Sl. No.	Group No.	Section	RKM	TKM	Date of Energisation
1	139	Kanniyakumari Yard	2.000	5.832	31-12-2011
2	154	Kumarapuram-Vanchimaniachi-Turicorin.	52.601	58.571	1-2-2012
		Nagercoil-Nanguneri-Tirunelveli.	72.199	79.273	Nagarcoil 11-2-2012
		Vanchimaniachi-Tirunelveli.	25.035	32.952	Nanguneri-Tirunelveli. 14-3-2012
3	155	Tirukkivilur-Turinapuram	43.846	49.850	31-12-2011
		Turinapuram-Polur	24.208	26.327	2-2-2012
		Polur-Kanniyamvadi	41.474	45.173	31-3-2012
		Total	261.363	297.978	



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 Interlocking on the Railways are as under :—

Gauge As on	Inter-locked stations						Non-Inter-locked		Total No. of	
	Std. III		Std. I		Rudimentary		Without Rudimentary		Block Stations	
	31st March 2011	31st March 2012	31st March 2011	31st March 2012	31st March 2011	31st March 2012	31st March 2011	31st March 2012	31st March 2011	31st March 2012
Broad Gauge	405	405	55	49	0	0	2	3	462	457
Metre Gauge	0	0	3	12	13	13	2	2	18	27
Total	405	405	58	61	13	13	4	5	480	484

Summary

Total No. of Inter-locked stations as on 31-03-2012	405	+	61	+	13	=	479
Total No. of Non-Interlocked stations as on 31-03-2012	—	—	—	—	—	=	5 only
Total No. stations closed for Gauge conversion as on 31-03-202	—	—	—	—	—	=	33
Total No. of Block stations :	479	+	5	+	33	=	517

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 2011 Gauge wise along with corresponding figures for 31st March 2012 are given below :—

Serial No.	System of Train Working	Broad Gauge		Metre Gauge		Total	
		31st	31st	31st	31st	31st	31st
		March 2011	March 2012	March 2011	March 2012	March 2011	March 2012
1.	Single Line Token Instrument (No. of Block section)	12	8	18	14	30	22
2.	Tokenless Block Instrument (No. of Block section)	380	382	Nil	Nil	380	382
3.	Paper Line Clear Ticket	..	..	..	..	..	..
a.	Single Line	..	..	..	..	..	..
b.	Double Line	..	..	..	..	..	..
4.	Lock and Block Instrument (No. of Block section)	139	146	Nil	Nil	139	146
5.	Automatic Signalling in Kms.	..	..	..	..	..	..
a.	Track Kilometres	1050.73	1050.73	Nil	Nil	1050.73	1050.73
b.	Route Kilometres	444.11	441.11	Nil	Nil	441.11	441.11
6.	Intermediate Block Signalling in Kms.	111.45	125.69	Nil	Nil	111.45	125.69
7.	One Engine Only System	—	—	—	—	—	—
8.	Other Systems	..	..	..	..	..	..
a.	Continuous Track Circuiting (Other than Auto signalling)	59.82	59.82	Nil	Nil	59.82	59.82
b.	Twin Single Line	263.76	263.76	Nil	Nil	263.76	263.76
c.	Train Staff Ticket System	—	—	—	—	—	—

(C) Type of Signalling as on current year 31st March 2012—

Serial No.	Route Line	Total No. of stations on					Total
		Quadruple Line	Double Line	Third Line	Single Line	Twin Single Line	
		Line	Line	Line	Line	Line	

(i) Two Aspect Semaphore Signalling—

E-Route	..	..	..	2	..	2
MG-Route	..	..	..	14	..	14
Total	..	..	..	..	..	16

(ii) Multiple Aspect Upper Quadrant Signalling—

(a) D-Route	..	..	..	7	..	7
E-Route	..	..	..	2	..	2
Other (Including MG)	..	..	..	..	..	..
Total	..	..	..	..	..	9

(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	48	6	178
'C'-Route	..	..	5	..	..	..	5
'D'-Route	..	..	66	..	125	..	191
'E'-Route	..	..	..	..	64	..	64
MG	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	459
Total (i)+(ii)+(iii)	..	15	194	7	262	6	484

D. Signalling Assests

	Total No. of Stations						Total
	A-Route	B-Route	C-Route	D-Route	E-Route	MG-Route	
1. Electronic Inter-locking (SSI)	8	17	..	17	3	..	45
2. Route Relay Inter-locking-RRI	3	34	3	13	2	..	55
3. Panel Inter-locking-PI or P1/RS	10	110	2	157	53	..	332
4. Centralised Operation by SM's Side Control (CO)	..	9	..	8	5	..	22
5. Lever Frame	..	..	..	..	5	14	19
6. IBS	..	8	..	3	..	..	11
7. Gauge conversion	..	..	..	..	..	33	33
Total	21	178	5	198	68	47	517

(E) Details of Track Circuiting

Total No. of stations as on 31st March 2012

(i) Track circuiting of all reception Lines	..	471 Stations.
(ii) Track circuiting of all main run through lines other than (i) above.	..	484 Stations.
(iii) Track circuiting from "starter to Advanced starter"/Block Section Limit Board	..	471 Stations.
(iv) Track circuiting of lines other than (i), (ii) and (iii) above like Siding, restoration of starter signals by Track circuiting.	..	NIL

(E) (i) Classification of stations as on 31st March 2012—

GAUGE	ROUTE	Special Class		'A' Class		'B' Class			'C' Class		'D' Class		Total
		Double Line	Single Line	Double Line	Single Line	Double Line	Single Line	Single Line	Double Line	Single Line	Double Line	Single Line	
		BG		BG		BG		MG	BG		BG		
BG	A	21	..	..	..	..	..	..	..	..	..	..	21
	B	47	..	..	..	70	47	..	10	3	1	..	178
	C	5	..	..	..	..	..	..	..	..	..	..	5
	D	4	2	..	..	59	130	..	3	..	..	..	198
	E	..	1	..	..	..	67	..	..	..	..	..	68
	MG	..	..	..	..	..	..	..	..	..	..	..	0
	Total	77	3	0	0	129	244	0	13	3	1	0	470
MG	Q	..	..	..	..	..	..	..	..	..	..	..	0
	R2	..	..	..	..	..	..	..	..	..	..	..	0
	R3	..	..	..	..	..	..	..	..	..	..	..	0
	S1	..	..	..	..	..	..	6	..	..	..	..	6
	S2	..	..	..	..	..	..	..	..	..	..	..	0
	S3	..	..	..	..	..	..	8	..	..	..	..	8
	Total	..	..	..	..	..	..	14	..	..	..	..	14

(E) (ii) Summary of Classification of stations as on 31st March 2012—

BG	77	3	..	..	129	244	0	13	3	1	0	470
MG	..	..	..	..	..	..	14	..	..	..	..	14
Total Number of Stations												484
Total Number of Block working stations .. 484 Total Number of Stations closed GC .. 33 Grand Total .. 517												

(G) Inter-locked Level Crossing Gates—With Lifting Barriers.—

(Total No. of Gates as on 31st March 2012)

Sl. No.	Route/Safety Devices provided	Special Class		'A' Class		'B 1' Class		'B 2' Class		C' Class		Total	
		W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.
a	Lifting Barriers	55	59	85	63	153	86	31	56	169	145	493	409
b	Telephone	55	59	85	63	153	86	31	56	169	145	493	409

(Total No. of Gates as on 31st March 2012).—Route Wise

Sl. No.	Route/Safety Devices provided	Special Class		'A' Class		'B 1' Class		'B 2' Class		C' Class		Total	
		W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.
1.	'A' Route—												
	(a) Lifting Barriers	2	2	1	1	9	7	0	0	3	11	15	21
	(b) Telephone ..	2	2	1	1	9	7	0	0	3	11	15	21
2.	'B' Route—												
	(a) Lifting Barriers	9	5	38	13	44	30	9	21	51	40	151	109
	(b) Telephone ..	9	5	38	13	44	30	9	21	51	40	151	109
3.	'C' Route—												
	(a) Lifting Barriers	3	0	0	0	0	0	0	0	0	0	3	0
	(b) Telephone ..	3	0	0	0	0	0	0	0	0	0	3	0
4.	'D' Route—												
	(a) Lifting Barriers	32	42	31	29	53	32	13	20	61	49	190	172
	(b) Telephone ..	32	42	31	29	53	32	13	20	61	49	190	172
5.	'E' Route—												
	(a) Lifting Barriers	9	9	13	12	40	15	9	15	52	43	123	94
	(b) Telephone ..	9	9	13	12	40	15	9	15	52	43	123	94
6.	MG Route—												
	(a) Lifting Barriers	0	1	2	8	7	2	0	0	2	2	11	13
	(b) Telephone ..	0	1	2	8	7	2	0	0	2	2	11	13

(ii) Non-Inter locked Gates—

Route	Total No. as on 31st March 2012					Total
	Special Class	'A' Class	'B1' Class	'B2' Class	'C' Class	
Trunk Route and Important Main Line :	..	..	..	..	..	..
1. 'A' & 'B' Route on B. G.	1	6	..	..	88	95
2. 'Q' & 'R' Route on M. G.	..	1	..	..	3	4
Others ..	10	24	1	10	530	575
Total	11	31	1	10	621	674

(iii) Unmanned Gates.—As on 31st March 2012

Sl. No.	Section	No. of Unmanned Gates		
(1)	Single line	..	..	970
(2)	Double line	..	..	42
	Total	..	..	1,012

H. Tele-communication Narrative Report—2011-12

(I) Exchanges

Sl. No.	Exchanges	Auto Exchanges	Inter-com.	Remarks
(1)	Total No. of Exchanges	75	49	..
(2)	Telephone Lines (in service)	14,334	2,665	..

(II) Traffic Control Including Area Control

Section Control

Sl.No.	Division	Section	Route Kms
--------	----------	---------	-----------

a) BSNL Rented Aerial Lines

1.	Salem	Coimbatore – Mettupalayam	35.51
2.	Salem	Mettupalayam – Udhagamandalam	45.88
		Total	81.39

b). Railway owned Aerial lines

1.	Thiruvananthapuram—Nagercoil – Tirunelveli	73.29
	Total	73.29

c). RE-QUAD TELECOM CABLES

1.	Chennai	Villivakkam – Annanagar	3.09
2.	Chennai	Pattabiram – Pattabiram Military Siding 'E' Depot :	2.03
3.	Salem	Salem – Mettur Dam	40.25
		Total	45.37

d). OFC + RE QUAD CABLE

1.	Chennai	Chennai Beach – Thirumayilai	8.66
2.	Chennai	Chennai – Arakkonam	68.48
3.	Chennai	Chennai Beach – Basin Bridge	4.66
4.	Salem	Salem – Erode Jn.	59.25
5.	Salem	Erode – Coimbatore	100.54
6.	Salem	Irugur – Podanur– Coimbatore	16.77
7.	Palakkad	Podanur – Palakkad	48.26
8.	Palakkad	Palakkad – Shoranur	44.49
		Total	351.11

e). 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 – Kozhikode – Mangalore	307.07
6.	Thiruvananthapuram	Shoranur – Trichur – Ernakulam	106.85
7.	Thiruvananthapuram	Ernakulam – Kottayam – Kayankulam	114.66
8.	Thiruvananthapuram	Ernakulam – Alleppey – Kayankulam	100.34
9.	Thiruvananthapuram	Ernakulam – Cochin Harbour Terminus	7.75

Sl.No.	Division	Section	Route Kms
10.	Thiruvananthapuram	Kayankulam– Kollam	40.84
11.	Thiruvananthapuram	Kollam – Tiruvananthapuram Central	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

f). 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 – Kanniyakumari	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

g). Railway 4 QUAD ALONE

1.	Palakkad	Padil – Panambur	16.71
2.	Tiruchchirappalli	Tiruvarur – Karaikudi	148.99
		Total	165.70

h). Railway 6 QUAD ALONE

1.	Salem	Vridhdachalam – Salem	138.88
2.	Salem	Mettupalayam – Kallar	7.46
3.	Salem	Hilivrove – Udagamandalam	28.62
4.	Tiruchchirappalli	Tanjavur – Kumbakonam	39.35
5.	Tiruchchirappalli	Vridhdachalam – Cuddalore Port	57.30
6.	Tiruchchirappalli	Kumbakonam – Mayiladuthurai	31.10
7.	Tiruchchirappalli	Villupuram – Cuddalore Port – Mayiladuthurai.	121.78
8.	Tiruchchirappalli	Nidamangalam – Mannargudi	13.41
9.	Tiruchchirappalli	Nagore – Velakanni	11.00
10.	Tiruchchirappalli	Nagore – Karaikkal	12.00
11.	Madurai	Virudunagar – Tenkasi	122.16
12.	Madurai	Karaikudi – Tiruchchirappalli	89.35
13.	Madurai	Karaikudi – Manamadurai	61.16
14.	Madurai	Punalur – Quilon	44.98
15.	Madurai	Tirunelveli – Tiruchandur	61.21
16.	Madurai	Tenkasi – Senkotai	7.83
		Total	847.59

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 - Jolarpettai, Salem - Metturdam,

Salem - Vriddachalam

Salem - Erode - Coimbatore - Podanur -

Kinathukadavu, Coimbatore -

Udhagamandalam

Salem - Karur - Tiruchchirappalli,

Karur - Dindigul

Palakkad - Shoranur, Palakkad - Pollachi -

Kinathukadavu - Palakkad - Podanur

(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

(Tiruchchirappalli) - Villupuram - Katpadi,

Villupuram - Pudukkottai, Cuddalore - Villupuram,

Vriddachalam - Cuddalore

Tiruchchirappalli - Vriddachalam - Villupuram,

Tiruchchirappalli - Thanjavur - Kumbakonam -

Mayiladuthurai - Cuddalore

Tiruchchirappalli - Thanjavur - Thiruvarur -

Nagore, Thiruvarur - Mayiladuthurai, Thiruvarur -

Thiruthurai - Karaikudi

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

RAILNET CONNECTIVITY

S.No.	Connectivity	No. of locations Provided with Railnet
1.	LAN connectivity	68 Nodes
2.	Dialup connectivity	6 Nodes
3.	Internet Gateway Connection	40 MB through RCIL

3MR—10A

SIGNAL AND TELECOM.

127

PRS & UTS

Division	PRS Locations	UTS Locations
Chennai	44	127
Salem	15	73
Palakkad	23	59
Thiruvananthapuram	37	70
Tiruchchirappalli	24	94
Madurai	32	97
Total	175	520

III - PASSENGER AMENITIES

S.No.	Telecom Items	Numbers
1.	PC based PA system	95
2.	Clocks [QUARTZ]	All Stations provided
3.	Coach Guidance System	60
4.	Train Display Board	109
5.	Conventional PA System	286
6.	Touch screens	207
7.	POET	87

IV - SATELLITE PHONES—9

V - FOIS, CMS & COIS

1.	FOIS	141 Locations
2.	COIS	53 Locations
3.	CMS	24 Locations
4.	V — SAT Connectivity	24 Locations

VI - VOICE RECORDER IN CONTROL OFFICE

Voice Recorders are provided on all the 23 Section controls and 8 Traction Power Control in all Divisions.

VII - CUG PHONES

7580 CUG SIM cards of M/S. AIRTEL are provided for Officers & Staff in all Divisions, Headquarters office, project and Construction wing.

VIII - VIDEO CONFERENCE

1. Video conferencing arrangements in Headquarters and all divisions is connected through OFC Ethernet media with ring protection.

2. CRB with GMs Video Conferencing system is connected through OFC MPLS Network between Chennai and New Delhi.

3. Video Phone arrangement between ML, CSTE, CEE commissioned in December 2011.

PERFORMANCE OF TELECOMM CIRCUITS

S. No.	Name of The Circuit	2011-12 Performance in %
a.	Average Efficiency of Control Circuits on Railway OFC Circuit	98.8
	Operating	99.75
b.	Average Efficiency of Control Circuits on Railway Quad Cable Circuit	99.24
	Operating	99.67
c.	Average Efficiency of Control Circuits on Railway RE Cable Circuit	99.01
	Operating	99.07
d.	Average Efficiency of Control Circuits on Railway OH Link Circuit	99.94
	Operating	99.95
e.	Average Efficiency of Control Circuits (BSNL OH Link) Circuit	93.29
	Operating	96.84

3. MATTER RELATING TO TELECOMMUNICATION WORKS—OFC WORKS

Sl. Nos.	Description of Work	Year of Programme	Estimated (in lakhs) cost ₹	Physical progress upto 31st March 2012	Remarks
1.	Villupuram-Tirukovilur Tiruvanamalai (OFC & Quad work)		479.00 P. 1473	95%	Work completed
2.	Nagappattinam-Velankanni (OFC & 6 Quad)		39.96 P. 1473	95%	Work completed
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	80%	Work is in progress.
5.	Madurai - Mananadurai- Rameswaram—OFC	2007 – 08	526.10 DF4	95%	Work completed
6.	Chennai - Arakkonam - 6 Quad cable	2008 – 09	318.47 DRF	90%	Work completed
7.	Vriddhachalam - Salem (OFC and STM-1 with MUX).	2010 – 11	402.00 DF3	..	TCM Under Progress
8.	Salem Division : Salem - Mettur dam - Provision of OFC (40 Kms.) - (5 Stations) & 6 Quad Cable between Omalur and Mettur Dam (33 Kms.) (LAW).	2008 – 09	318.47 DRF	90%	Work completed
OTHER SPECIFIED WORKS					
9.	Southern Railway - Integrated Security System at TVC, ERS, MDU, CBE, TPJ, CLT & MAQ (7 Stations).	2010 – 11	3050.99 CAP	50%	Work is in progress.
10.	Southern Railway - Integrated Security System at MAS, BBQ, TRL, MSB, MS, MBM, & TBM (7 Stations).	2010 – 11	1110.40 CAP	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 ₹	Physical progress upto 31st March 2012	Remarks
1.	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 16 stations and work is in progress at balance 1 station (Avadi).
2.	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.

Sl. No.	Description of Work	Year of Programme	Estimated cost Rs. (in lakhs)	Physical progress upto 31st March 2012	Remarks
3.	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.
4.	Southern Railway – Provision of Advanced starter where starters are working as Last Stop Signals. (10 Stations.)	2000-01	147.32 DF(4)	90%	Work completed at 9 stations and balance work at one station is in progress.
5.	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%	Estimate is sanctioned and work is in progress.
6.	Erode – Karur – Fouling mark to fouling mark & fouling mark to block section limit track circuiting (D & E Routes) To verify with CSTE	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.
7.	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.
8.	Basin Bridge – Ambattur (fast lines) & Ambattur – Pattabiram (slow lines) – Audio Frequency Track Circuits in lieu of Conventional DC Track Circuits.	2003-04	1538.71 DRF	25%	Detailed estimate is sanctioned by GM/S.Riy/MAS. The work is taken up based on the guidelines issued by RDSO and Railway Board. Work is in progress.
9.	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 have completed joint trials with RDSO and submitted to Board. Finalisation of version (2) in software modification is in progress.
10.	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.
11.	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)	60%	Work completed and commissioned at 14 block sections and balance work is in progress.
12.	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)	65%	Work completed and commissioned at 18 block sections and balance work is in progress at 8 Block.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of ₹	Physical progress upto 31st March 2012	Remarks
13.	Shoranur – Ernakulam – Alleppey – Kayankulam – Thiruvananthapuram —Block Proving Axle Counter in Inter-locked Sections (317 Km.—39 BS).	2004-05	2078.68 DF(4)	20%	Work completed and commissioned at 7 block sections and balance work is in progress at 8 block sections.
14.	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.
15.	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 PLNI, POY and TTP are coming under GC.
16.	Chengalpattu – Villupuram – Block Proving by Axle Counter in Panel/ Route Relay Interlocked Section (102 Km. – 11 Block Sections).	2004-05	520.73 DF(4)	20%	Work completed in WM-MYP block section and balance work is in progress at 10 Block sections.
17.	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.
18.	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.
19.	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 NTVY-MAJN. Block section.
20.	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.
21.	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.
22.	Golden Rock – Thanjavur - Block Proving by Axle Counter in Panel/Route Relay Inter-locked Section (47 Km. - 4 Block Sections).	2004-05	214.23 DF(4)	60%	Detailed estimate is sanctioned. work completed and commissioned at 2 Block sections TJ-ALK and ALK-BAL block sections and work is in progress in 2 block sections.
23.	Pattabiram – Walajah Road (77 Km.) & Gummidipundi – Gudur (90 Km.) – Relay Terminal Units & Networking.	2004-05	460.36 DF(4)	85%	Work completed in TRL-AJJ section and balance work in progress in ODR-GDR Section.
24.	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.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2012	Remarks
25.	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	100%	Work completed and commissioned at 6 stations CVD, PAS, URL, MPLM, PGR & KMD.
26.	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.
27.	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.
28.	Thiruvananthapuram Division- Repl of shelf type track relays 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.
29.	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	30%	Detailed estimate is sanctioned by ADRM/TPJ and TCM in progress.
30.	Tiruchchirappalli Division - Villupuram Chinnababusamudram-Puducherry Provision of BPAC (2block section).	2006-07	48.78 DF(4)	100%	Work completed and commissioned.
31.	Arakkonam Jn. – Jolarpettai Jn. – Replacement of RE Cables by 6 Quad Cable (B-Route).	2007-08	149.98 DF(3)	95%	Work completed and commissioned.
32.	Attipattu - Gummidipundi section— Reliability improvements to ring main power supply for signalling equipments.	2007-08	220.14 DF(4)	20%	Detailed estimate is sanctioned. TCM in progress.
33.	Chennai Division : Replacement of Point Machines (284 Nos.) and Shelf type relays (1315 Nos.).	2007-08	390.99 DRF	100%	Work completed and commissioned.
34.	Angadipuram–Vaniyambalam and Nilambur section - Replacement of MAUQ signalling by MACL.	2007-08	309.606 DRF	30%	Work completed and commissioned. at AAM and VNB stations. Balance work is in progress At Nil.
35.	Palakkad and Thiruvananthapuram Division - Replacement of point machines (68 Nos.) and Shelf type Relays (200 Nos.).	2007-08	177.19 DF(4)	60%	Detailed estimate is sanctioned and work is in progress for Shelf Type Relays.
36.	Thiruvananthapuram Division Station Data loggers (25 stations).	2007-08	180.10 DF(4)	25%	Detailed estimate is sanctioned. Work commissioned at 17 stations and balance work is in progress in 8 stations.
37.	Tiruchchirappalli Division - Replacement of point machine (86 Nos.- Shelf type Relays (590 Nos.).	2007-08	155.62 DF(4)	50%	Detailed estimate is sanctioned and all point machines were replaced. Work is progress for replacement of 'Q' type Relays.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2012	Remarks
38.	Coimbatore North – Mettupalaiyam (35 km) & Mettupalaiyam – Udhagamandalam (45 Km) – Composite Quad Cable.	2007-08	456.13 DF(3)	60%	Work is in progress.
39.	Madurai and Tiruchchirappalli Divisions - Light Emitting Diode signals in Chord lines.	2007-08	364.66 DF(4)	95%	Provision of LED signals have been completed at 17 stations in MDU Dn. and at 27 stations in TPJ Division balance work is in progress in TPJ-DG section.
40.	Madurai – Manamadurai – Rameswaram – Optic fibre cable.	2007-08	526.10 DF(3)	80%	Work commissioned in Madurai-Manamadurai section and balance work in progress.
41.	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	100%	Work completed and commissioned. at PLI and KLT stations.
42.	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.
43.	Chennai Central – Arakkonam Jn. – 6 Quad Cable (B-Route) (70 Kms) incl. Pattabiram - Pattabiram E depot. (5 Kms).	2008-09	318.47 DRF	80%	Detailed estimate is sanctioned. LOA Issued for MAS-TI and TI-AJJ section. Cable laying is completed inentre section.
44.	Perambur – Tiruvellore – Ring main arrangement and Replacement of Power Cable (36.03 Kms).	2008-09	318.10 DF(4)	—	Detailed estimate is sanctioned. Quad and OFC cable laying is completed.
45.	Chennai Beach – Villupuram Jn., Chennai Beach - Tirumailai – 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 MSB-MTMY section.
46.	Villivakkam, Ambattur and Avadi - Replacement of Signalling gears by Route Relay Inter-locking.	2008-09	1017.91 DRF	—	Detailed estimate is sanctioned.
47.	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.
48.	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	90%	Detailed estimate is sanctioned. Work is completed at all LC's completed and commissioned.
49.	Thiruvananthapuram Dn. - Karukutty- Replacement of wornout Signalling gears by Route Setting Type Panel Interlocking.	2008-09	182.63 DRF	..	Detailed estimate is sanctioned. TCM in progress.
50.	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	172.68 DRF	—	Deatiled Estimate sanctioned by CSTE/ Proj./MAS. LOA issued and installation of equipments are in Progress.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2012	Remarks
51.	Chennai Division : Replacement of aged and worn-out signalling gears by Panel Inter - locking at Sri Venkatesaperumalrajapuram.	2009-10	144.25 DRF	—	Detailed Estimate sanctioned by CSTE/Projects. LOA issued.
52.	Chennai Division - Arakkonam - Chengalpattu - Provision of BPAC in PI/RRR sections - 5 Block sections.	2009-10	167.81 DRF	—	Detailed Estimate sanctioned by CSTE/P & P. Work complend and commissioned in 3 Block sections. Balance 2 Block sections AJJ-TMLP and PALR-CGL work is in progress.
53.	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)	—	Deatiled Estimate sanctioned. M/s. Railtel claims is pending for want of funds.
54.	Salem Division - Replacement of aged and worn-out signalling gears by Panel Inter-locking at Vijamangalam and Tottipalayam	2009-10	309.57 DRF	—	Revised detailed estimate sanctioned and tender schedules are under finalisation.
55.	Salem Division - Replacement of Multi Aspect Upper Quadrant Signalling Gears by Panel Inter-locking at Karamadai and Mettupalayam.	2009-10	465.74 DRF	—	Detailed Estimate sanctioned and tender schedules are under finalisation.
56.	Salem Division - Improving the reliability and visibility of signals using LED signals.	2009-10	162.40 DF(4)	70%	Detailed Estimate sanctioned and Tender opened.
57.	Salem Division - Salem - Mettur Dam - Provision of OFC (40 Kms) - 5 stations & 6 Quad Cable between Omalur - Mettur Dam.	2009-10	274.93 DF(4)	—	Detailed Estimate sanctioned and Tender opened. TCM is under progress.
58.	Salem Division - Replacement of MAUQ signalling gears by Panel Inter-locking at Virarakkiam.	2009-10	385.82 DRF	—	Detailed Estimate sanctioned and Tender schedules are under preparation.
59.	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.
60.	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
61.	Thiruvanthapuram Division - Provision of LED Signals over TVC Division (ERS-SRR section B Route portion).	2009-10	76.00 DF(4)	90%	Detailed Estimate is sanctioned and work completed and commissioned at all stations.
62.	Thiruvanthapuram Division - Provision of LED Signals in KUMM-CHPD and TRTR-ETM section.	2009-10 (OT)	78.42 DF(4)	—	Detailed Estimate is sanctioned. Work completed at HAD work is in Progress at balance stations.
63.	Thiruvanthapuram Division - Provision of LED Signals in KYJ-PRND section.	2009-10 (OT)	66.15 DF(4)	—	Detailed Estimate is sanctioned. Work completed and commissioned at 5 stations and work is in progress at balance 2 stations.
64.	Thiruvanthapuram Division - Provision of LED Signals in MYY-TVC-NCJ-CAPE-TEN. Section.	2009-10 (OT)	93.08 DF(4)	—	Detailed Estimate is sanctioned. Work completed and commissioned at 4 stations and work is in progress at balance stations.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2012	Remarks
65.	Tiruchchirappalli Division - Provision of LED Signals at all and LCs in TJ-TVR, VRI-CUPJ, and VM-PDY sections.	2009-10 (OT)	71.78 DF(4)	—	Detailed Estimate is sanctioned. All the signals are replaced by LED aspects.
66.	Chennai Division - Public address system in suburban trains (66 rakes).	2009-10 Supple mentry.	752.00 DRF	—	Detailed Estimate has been sanctioned by CEE/MAS and tender opened.
67.	Chennai Division - Replac- ment of aged and worn out Route Relay Interlocking by Route Relay Interlocking at Chennai Suburban Terminal.	2010-11	154.40 DRF	—	Detailed Estimate is sanctioned and Tender opened.
68.	Basin Bridge - Arakkonam section (Slow line) - Provision of Train Protection Working system (TPWS).	2010-11 (Suppl.)	3081.42 DF(4)	—	Modified Estimate is sanctioned based on revised guidelines received from RDSO.
69.	Southern Railway - Train management System on Chennai Beach-Sulurpetta, Chennai Beach-Velachery, Chennai beach-Chen- galpet and Chennai-Arakkonam sections).	2010-11 (Suppl.)	3573.36 DF(3)	—	Detailed estimate is sanctioned and Tender opened.
70.	Salem Division - VRI - SA section -Provision of Optic Fibre Cables' and STM-I with MUX.	2010-11	478.61 DF(3)	—	Detailed Estimate is sanctioned and Tender opened.
71.	Palakkad Division - Mankara, Ottapalam, Parli & Lakkiti -Repla -cement of Panel interlocking arrangement by Route setting type - B route.	2010-11	1167.00 DRF	—	Detailed Estimate sanctioned by CSTE/P&P. Indents for vital materials placed.
72.	Thiruvananthapuram Division - Replacement of signalling assets by Panel Interlocking at Anga- mali for Kaladi.	2010-11	182.00 DRF	—	Detailed Estimate is sanctioned.
73.	Tiruchchirappalli Division - Provision of OFC and STM-I with MUX at VRI-CUPJ section - Provision of OFC and STM-I with MUX - 57 Kms.	2010-11	202.22 DRF	—	Detailed Estimate is sanctioned on 06.09.11.
74.	Arakkonam - Jolarpettai - Train Protection & Warning system - 150 RKM.	2011-12 (Suppl.)	11232.00 DF(4)	—	Detailed Estimate is under preparation.
75.	Chennai Beach - Tambaram - Chengalpattu - Train Protection & Warning system - 150 RKM.	2011-12 (Suppl.)	4263.00 DF(4)	—	Detailed Estimate is under preparation.
76.	Salem Division - Replacement of Signalling gears by Route Setting type Type Panel Inter- locking (4 stations) (D-Route) in KRR-TPJ section. At MMH, PGN, ELan MTNL stations.	2011-12	873.00 DRF	—	Detailed Estimate is sanctioned on 17.02.12.
77.	Salem Division - Karur - Dindigul & Omalur - Mettur Dam - Block Proving by Axle Counters in Panel/Route Relay Interlocked Setions (7 block sections).	2011-12	221.00 DF(4)	—	Detailed Estimate is sanctioned on 14.02.12.
78.	Tiruvananthapuram Division - Replacement of SM's Slide Ope- ration of Signals & points by Panel Interlocking at Punkunnam station.	2011-12	98.94 DRF	—	Detailed Estimate is under Accounts vetting.
79.	Tiruchchirappalli Division - Replacement of Panel interlocking at Tiruchchirappalli Fort station.	2011-12	201.20 DRF	—	Detailed Estimate is vetted by Accounts and is under process of sanction

Sl. No.	Description of Items	Added during 2010-11	Total as on 31-3-2011	Added during 2011-12	Total as on 31-3-2012
1.	Token Block Working (No. of Block Sections)	-9	30	-8	22
2.	Tokenless Block Working (No. of Block Sections)	23	241	-5	236
3.	Lock & Block Working (No. of Block Sections)	3	139	7	146
4.	Intermediate Block Sections (No. of Block Sections)-4	1	9	2	11
5.	Block Proving by Axle-counters (No. of Block Sections)	55	164	141	305
6.	Colour Light Signalling (No. of Stations)				
	(i) Multi Aspect	25	439	20	459
	(ii) 2-Aspect	—	—	—	—
7.	Semaphore Signalling (No. of stations)				
	(i) MAUQ	-13	21	-12	9
	(ii) MLQ	—	—	0	—
	(iii) LQ	0	20	-4	16
8.	Automatic Block Working				
	(i) Track kms.	44.81	1050.73	0.00	1050.73
	(ii) Route Kms.	7.05	441.11	0.00	441.11
9.	Automatic Permissive Block Working				
	(i) Track kms.	0.00	58.28	-58.28	0.00
	(ii) Route Kms.	0.00	29.140	-29.14	0.000
10.	Safety Devices at Level Crossings				
	(i) Inter-locking at Level Crossings (Nos.)	39	1153	40	1193
	(ii) Lifting Barriers at Level-Crossings (Nos.)	39	1091	40	1131
	(iii) Non-Interlocked Level-Crossings	1	343	6	349
	(iv) Telephone at Level Crossings (Nos.)	5	1753	35	1778
	(v) Train Actuated Warning System (Nos.)	0	26	0	26
	(a) At Unmanned Gates (Nos.)	0	20	0	20
	(b) At Manned Gates (Nos.)	0	6	0	6
11.	Total No. of Interlocked Stations (Nos.)	12	480	—	480
	(i) Non-Interlocked Stations	0	4	1	5
	(ii) Modified Non-Interlocked Stations	0	13	-4	9
	(iii) Block Hut with Station Master/BS	9	9	4	13
	(iv) Interlocked Stations	3	454	3	457
	(a) Standard-I	-11	58	-6	52
	(b) Standard-II	—	—	—	—
	(c) Standard-III	14	396	9	405
12.	Route Relay Interlocking (No. of station)	3	55	0	55
	(i) Stations with MACL Signals	3	55	0	55
	(a) Standard-I Interlocking	0	25	-1	24
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	-3	30	1	31
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	333	21	354
	i Stations with MACL Signals	16	323	24	347
	(a) Standard-I Interlocking	1	15	7	22
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	15	308	17	325
	(ii) Stations with Semaphore Signals	0	10	-3	7
	(a) Standard-I Interlocking	0	5	-3	2
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	0	5	0	5
14.	Lever Frames (No. of stations)	-17	25	-6	19
	i With MACL Signals	-2	1	0	1
	(a) Standard-I Interlocking	-1	1	0	1
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	-1	—	—	—
	(ii) Stations with Semaphore Signals (DW) (MAUQ) (No. of stns.)	-8	4	-2	2
	(a) Standard-I Interlocking	-6	4	-2	2
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	-2	—	—	—
	(iii) Stations with Semaphore Signals (SW) (LQ) (No. of stations)	-7	20	-4	16
	(a) Standard-I Interlocking	-7	19	-4	15
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	0	1	0	1
15.	Solid State interlocking (No. of stations)	11	35	10	45
16.	Auxiliary Warning System (Route Km)	0	50	0	50
	(Track Km.)	0	100	0	100

Sl. No.	Description of Items	Added during 2010-11	Total as on 31-3-2011	Added during 2011-12	Total as on 31-3-2012
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	3	464	7	471
	(ii) FM to BSL (St)	10	464	7	471
	(iii) FM to BSL (T/O)	7	464	7	471
	(iv) FM to Home (St)	18	464	7	471
	(v) FM to Home (T/O)	7	213	3	216
	(vi) Loop line	12	464	7	471
19.	No. of Semaphore Signals Lit with Solar Power (Nos.)	-81	215	-98	117
20.	AFTC (Nos.)	10	1307	0	1307
21.	HFTC (Nos.)	0	0	0	0
22.	DIGITAL AXLE-COUNTERS (Nos.)				
	(i) Single Entry	—	—	—	—
	(a) Stations	33	82	169	251
	(b) Equipments	66	185	425	610
	(ii) Multi Entry	—	—	—	—
	(a) Stations	—	—	—	—
	(b) Equipments	—	—	—	—
23.	ANALOG AXLE-COUNTERS (Nos.)				
	(i) Single Entry	—	—	—	—
	(a) Stations	-5	31	-8	23
	(b) Equipments	-10	72	-18	54
	(ii) Multi Entry	—	—	—	—
	(a) Stations	0	4	-2	2
	(b) Equipments	0	10	-6	4
24.	MICROTRAX (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	-7	27	-9	18
	(i) With Conventional Power	—	—	—	—
	(ii) With Solar Power	-7	27	-9	18
	(iii) With Primary Batteries	—	—	—	—
	(b) No. of Signals	-40	173	-8	165
	(i) With Conventional Power (Nos.)	0	0	0	0
	(ii) With Solar Power (Nos.)	-40	173	-8	165
	(iii) With Primary Batteries	—	—	—	—
27.	LED Lit MACL Signals (Nos.)				
	(a) Stations	72	214	212	426
	(b) Signals	806	2,646	4,369	7,015
	(c) Aspects	3,725	11,136	9,587	20,723
28.	Triple pole Signal lamps (Nos.)				
	(a) Stations	-165	124	-78	46
	(b) Signals	-1592	1333	-1,031	302
	(c) Aspects	-4075	3746	-3,030	716
29.	Calling-On Signals (No. of Stns.)	3	382	19	401
30.	Data-loggers (Total)				
	(i) Stand Alone (Nos.)	-26	39	-35	4
	(ii) Networking Mode (section Nos.)	115	359	85	444
31.	Integrated Power Supply (No. of stns.)	35	123	10	133
	(i) SCR Based (No. of stns.)	0	0	0	0
	(ii) SMPS Based (No. of stns.)	35	123	10	133
32.	Point Machines (Nos.)				
	(i) IRS Type	316	5,100	217	5,317
	(ii) Siemens Type	0	0	0	0
	(iii) Clamp Type	0	0	0	0
	(iv) Other	0	91	0	91
33.	Colour Light Signalling (Nos.)				
	(i) Multi aspect	—	3,570	200	3,770
	(ii) Two aspect	—	2,727	355	3,082
34.	Semaphore Signalling (Nos.)				
	(i) MAUQ	0	241	-150	91
	(ii) MLQ	0	0	0	0
	(iii) LQ	0	56	0	56
35.	Batteries (Nos.)				
	(a) (i) 2V Cells 40 AH	1,162	4,228	1,556	5,784
	(ii) 2V Cells 80 AH	-224	2,6704	6,069	32,773
	(iii) 2V Cells 120 AH	531	12,105	36	12,141
	(iv) 2V Cells 200 AH	1,270	9,963	7,958	17,921
	(v) 2V Cells 300 AH	1,122	5,788	-3,673	2,115
	(vi) 2 Cells 400 AH	476	9,098	-2,274	6,824
	(vii) 2V Cells 500 AH	—	—	—	—
	(b) Battery set 12/24V	-6	55	-55	0
36.	ZISTUS	1,19,709	38,04,825	-6,69,187	31,35,638
37.	Total Route KMS on Railway	4.05	5,102.12	-108.12	4,994
38.	Total Track KMS on Railway	29.64	6,789.17	-75.17	6,714

5. Signal Equipment Failures

Sl. No.	Signal Failures	Number of Failures			
		Previous Year 2010-11		Current Year 2011-12	
I. On Signal Account :—		Nos.	%	Nos.	%
(a) In colour light Signalling area		3,497	46.85	3,372	61.15
(b) In semaphore signalling area.		132	1.77	37	0.67
Sub-Total		3,629	48.62	3,409	61.82
II. On Account of others :—					
1.	Operating Department	524	7.02	316	5.73
2.	Mechanical Department	12	0.16	5	0.09
3.	Engineering Department	979	13.12	615	11.15
4.	Electrical Department	127	1.70	105	1.90
5.	D. O. T. ..	84	1.13	4	0.07
6.	Miscreant ..	192	2.57	112	2.03
7.	Miscellaneous ..	788	10.56	568	10.30
8.	S & T Construction ..	1,129	15.13	380	6.89
Sub-Total		3,835	51.38	2,105	38.18
Total (I + II)		7,464	..	5,514	..

The percentage is worked out based on the grand total number of signal and interlocking failures both on S. & T. account and other account 5514.

6. S & T Workshop-Podanur

Introduction:

Signal and Telecommunication Workshop/Podanur was set up on 9.4.1958 to serve as manufacturing - cum repairing unit for Signal Equipments. Initial activities were confined to manufacture of Mechanical Signalling equipments 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. Since then this workshop has grown into a major manufacturing unit for Signal and Telecommunication products and supplies the same to the entire Indian Railways.

Railway Board has designated this workshop recently as a Hitech workshop. Consequent upon the same, S&T Workshop, Podanur has stepped into the manufacture of SLTLB Instruments to suit RE area, LED Signal units, pre-wired locations etc.,

The workshop is managed by Chief Workshop Manager (CWM) with a team of Officers comprising 5 S & T Officers, 1 Stores Officer and 1 Personal Officer.

Development of Signalling Relays and Electronic Axle Counters.

Gradually the production of Shelf 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 workshop 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 Instruments, to suit Non-RE areas, Electrically Operated lifting Barrier Gates SSD Axle Counters, IRS Point machines, Polarised Relay, Electronic Timers etc. The Workshop has an auxiliary unit at Perambur/Chennai. The Perambur Unit take up the overhauling of SGE Block Instruments and FM Diado Block Instruments which are installed throughout Southern Railways. Apart from this the Perambur Unit also takes up the assembly work of Gate warning Bell, Annunciater, Battery Charging in addition to some other Misc. Works.

Production Growth & OUT-Turn :

The Workshop manufacture various types of sophisticated Signalling Equipments for meeting the demand of Indian Railways in the commissioning of new signalling projects and replacement works.

The combined annual out turn of S & T Workshop/Podanur and Perambur Unit is in the order of Rs. 48.68 Crores for the year 2011 - 12,

Progressive growth in the out-turn of the workshop can be seen from the figures given below :-

Sl. No.	Description	2007-08	2008-09	2009-10	2010-11	2011-12
1.	Q Type Plug in Type Relays	57200	55650	65000	74007	65910
2.	IRS Point machine	2575	2480	2300	2700	1616
3.	Token Less Block Instrument (Push Button Type)	521	650	700	720	263
4.	Double Line Block Instrument	76	120	138	140	124
5.	Control panel	54	57	62	60	91
6.	Polarised Relay	149	269	189	225	175
7.	Relay rack	296	243	60	0	111
8.	GRS App cases.	1791	970	1250	1390	1325
9.	SSDAC	0	0	22	0	0

Year	Out turn in Crores of Rs.	Staff strength	Outturn per employee (in lakhs of Rs.)
2007-08	35.72	869	4.1
2008-09	41.75	848	4.9
2009-10	60.39	815	7.4
2010-11	65.27	768	8.5
2011-12	48.68	763	6.4

The out turn per employee for the year 2011 - 12 is Rs. 6.4 Lakh.

Incentive Scheme :

The Incentive Scheme was introduced in the workshop on 1st August 1963. An average of 589 staff per month have been covered under Incentive Scheme during the year 2011 - 2012.

Quality Control :

This workshop is an ISO 9001:2008 Certified Unit.

The pride of the workshop lies in its capacity to produce sophisticated signalling products to high standard 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 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 produced in the workshop.

Developmental Activities

This workshop have developed prototype samples of the following items and obtained Initial Type Approval RDSO/LKO this year.

1. QBA1 6F/6B, AC Immune DC Biased Relay
2. QTA2 2F/1B, AC Immune Neutral Track Relay
3. QT2 Plug-in-Type Relay 2F/2B
4. QSPA1 8F/4B, A.C. Immune Relay

Prototypes of the following new items have been developed in this workshop and the samples are under Type Approval/Trial test.

1. Push Button Type Block Instrument to suit RE area
2. Point Machine (220 mm stroke) suitable for thick web switched.
3. QECX Relay, AC Lamp proving for 110 V AC LED Signal Lamp.
4. QNN1 Relay 24VDC Neutral Line relay.

This workshop is also planning to develop the following Electronic Items in the financial year 2012-13 as per relevant specifications.

1. FM Diado Block Instrument
2. Single Section Digital Axle Counter (SSDAC)

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 through Railnet.

Daily position 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 done through computers only. The issue of passes (Privilege passes, Post retirement passes) are done through computers.

Out sourcing of sub-assemblies and components

To meet the growing demand of vital components produced in the workshop, certain Sub-Assemblies and Components of Q' Relays, Point machine 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 29/04/1993. Courses for Non-ITI Apprentice Fitters (Freshers) Ex-ITI Fitter, Turner, Welder and Machinist as per Apprentice Act 1961 are conducted here. Recently Written Test for the selection of fresh batch was held on 20/05/2012 and the selection process is under progress.

Staff Welfare

The workshop is periodically inspected by the Inspector of Factories and instructions issued from time to time are strictly followed. A canteen is functioning in the workshop for the benefit of staff. Tea, Snacks, Tiffin and meals are arranged daily to the staff at subsidized rates. In addition to this, Hindi library, Cycle stand and Rest Room are functioning for the welfare of the staff.

Railway Sub-Divisional Hospital and Homoeopathic Dispensary are functioning nearby the Workshop for the staff and their families.

The renovated Railway Institute with library and reading room has been opened for staff recreation with facility for various indoor games like Shuttle coke, Carroms, Billiards, Table Tennis etc. Volley Ball court, Lawn Tennis court are also available to the staff and wards.

S&T Workshop/Perambur:-

S&T Workshop/Perambur 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 SGE Double Line Block Instrument and FM Daiddo Block Instrument Shelf Type Relays etc. Apart from these Overhauling activities, this workshop manufacture Electronic Gate Warning Bell, Annunciator, Initial charging of Batteries used in Signal and AC Locos also are undertaken in this workshop.

This is a Non-Incentive Workshop managed by a SSE and AWM/S&T/PTJ is the overall in charge of the unit who visit the workshop twice in a week to look after the activities of the workshop. The Out-turn of the S&T/workshop/Perambur for the year 2011-12 is Rs.3.1Crore.

It is proposed to increase the Out-Turn of S&T/Workshop/Perambur in this financial year by entrusting additional work such as Gate Warning Signals for Road users, E Type lock, Cable Route makers etc.

S & T TRAINING CENTRE AT PODANUR

The S&T Training Centre is under the administrative control of CWM/S&T/PTJ. It is headed by Principal. The faculty of the Training centre comprises the following:-

Vice Principal	- 1
Instructors	- 9
Demonstrators	- 2
Artizan Instructor	- 2

Mandatory courses like initial courses for Apprentices, Refresher courses for serving employees, Foundation courses for newly promoted Group C employees, Induction course and Development course for Group D and various equipment courses on Signal & Telecommunication on Safety related courses are regularly conducted for the employees of Southern Railway and South Western Railways as per the training modules issued by the Railway Board.

Mandatory promotional courses for promoted JE/Signal & Tele and Modular course for Supervisors for Signal & Tele are also conducted at this training centre.

Pre promotional courses for supervisors for the selection to Group B service and for Artisans for selection as JE/Signal & Tele being conducted.

Yoga and Meditation, Computer courses are also being conducted here.

In addition to the above courses, special One day courses such as courses on Cable Jointing techniques, Route releasing techniques on RRI system II, Validation of Data Loggers, BPAC, Ballast resistance calculations etc. are also conducted at this training centre along with some training at field level.

Staff are also being trained through e-learning and Virtual classes connected to IRIS/SC and other training institutes.

Hostel facility with trainee participative mess is provided to the staff attending the courses.

As part of development work, a seminar hall cum ladies hostel is under construction and comprehensive action plan for up gradation of infrastructure facility is under progress in LAW programme.

**DETAILS OF TRAINEES WHO HAD UNDERGONE TRAINING FOR THE PERIOD
APRIL 2011 To MARCH 2012 AT S & T TRAINING SCHOOL - PODANUR**

Sl. No.	Name of Courses	No. of Courses Pro-grammed	No. of courses conducted	No. of seats allotted	No. of Staff trained
I. Initial Courses					
1	Initial course for App. ESMs	7	7	77	77
2	Initial course for App. TCMs	2	2	4	4
3	Promoted JE/Drg	1	1	14	14
	Total	10	10	95	95
II. Refresher Courses					
1	Refresher course for ESMs.	10	10	230	282
2	Refresher course for TCMs.	9	9	111	90
	Total	19	19	341	372
III. Foundation Courses					
1	Foundation course for ESMs	3	3	63	101
2	Foundation course for TCMs	3	3	33	46
	Total	6	6	96	147
IV. Promotional Courses					
1	Promotional Course/Signal	3	2	35	31
2	Promotional Course/Telecom.	2	1	10	2
	Total	5	3	45	33
V. Pre Promotion Course					
1	Pre Promotion Course Signal	4	3	30	8
2	Pre Promotion Course Telecom	4	3	30	17
3	Pre Promotion Course for group C to B	3	3	41	41
	Total	11	9	101	66
VI. (a) Equipment Course (Signal)					
1	Block Instrument Course	5	5	50	70
2	Point Machine Course	6	6	60	67
3	Signalling in RE Course	5	4	40	30
4	Universal Axle Counter	6	6	60	41
5	RRI Minor Yard	10	8	114	108
6	Automatic Signal	4	4	40	12
7	Data Logger, Electronic Interlocking.	4	4	40	33
8	Modular Course/Signal	4	4	40	31
9	Induction to unskilled	5	5	50	71
10	Data Logger	2	2	166	166
11	Ballast resistance & rail	3	3	87	87
12	Elec. Engg. Medium voltage	1	1	23	23
13	Workshop on quad cable jointing.	1	1	32	32
14	Block proving by Axle counter.	2	2	33	33
15	Relays, Diado block inst. & Pro. Course for S&T/WS/PTJ staff.	10	10	55	55
	Total	68	65	890	859

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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VI. (b) Equipment Course (Telecommn.)

1	Train traffic control RE/Non RE	6	6	60	29
2	PA systems VHF, PRS, IVRS & CCTV	6	6	60	31
3	Optical fibre communication	6	6	60	28
4	PDH/SDH	7	6	60	38
5	Electronic Exchange	5	5	50	28
6	ISDN Exchange	2	2	20	7
7	Railnet, FOIS	5	4	40	16
8	Data Communication	7	7	70	36
9	Splicing, OFC cable, Quad	7	7	70	36
10	Modular Course/Tele	4	4	40	23
11	Induction to unskilled	5	5	55	26
	Total	60	58	585	298

VI. Common Courses

1	Yoga & Meditation	12	12	120	83
2	Computer appreciation	9	9	90	48
	Total	21	21	210	131
	Grand Total	200	191	2363	2001

Sl. No.	Name of Courses	Seats allotted	Seats Utilised	% Of Utili-sation
1	Initial Course/Signal	77	77	100%
2	Initial Course/Tele	4	4	100%
3	Refersher Course/Signal	230	282	123%
4	Refersher Course/Tele	111	90	81%
5	Foundation Course/Signal	63	101	160%
6	Foundation Course/Tele	33	46	139%
7	Promotional Course/Signal	35	31	89%
8	Promotional Course/Tele	10	2	20%
9	Pre Promotion Course/Signal	30	8	27%
10	Pre Promotion Course/Tele	30	17	57%
11	Equipment Courses/Signal	890	859	97%
12	Equipment Courses/Tele	585	298	51%
13	Common Courses	210	131	62%
	TOTAL	2308	1946	1189.45%

7. Staff

(i) Total strength of staff (cadrewise separately for Signal and Tele-communication staff) in respect of Inspectors and Artizans 2011-12.

Sl. No.	Category	Total Nos.
(a) Signalling—		
(1)	Signal Engineers	329
(2)	Technician Signal	1,502
(b) Tele-communication—		
(1)	Tele-commn. Engineers	231
(2)	Technician, Tele-commn	567
(3)	Wireless Instrument machanics	135

(ii) Total No. of Signalling and Tele-communication staff recruited in respect of Inspectors and Artizans. (Indents Placed).

(a) Through Railway Recruitment Board

(1) SSE/Sig.	..	10
(2) JE/Sig.	..	25
(3) SEE/Tele.	..	10
(4) JE/Tele.	..	22
(5) Technician/Gr. II/Signal	..	96
(6) Technician/Gr. III/Signal	..	131
(7) Technician/Gr. III/Tele.	..	71
(8) Wireless Instrument Mechanics	Nil	

(iii) Total No. of staff trained through Zonal Training Schools/Centres category wise during 2011-12.

Sl. No.	Name of the courses	No. of courses conducted	No. of staff trained
(1)	Refresher Course	19	372
(2)	Initial Course	10	95
(3)	Equipment Course	123	1,157
(4)	Foundation Course	6	147

Sl. No.	Name of the courses	No. of courses conducted	No. of staff trained
(5)	Pre-promotional Courses		
(a)	ESMs/MSMs	6	25
(b)	Group 'C' to Group 'B'	3	41
(c)	Promoted JEs	3	33
(6)	Other courses - Computer	9	48
	Other courses - Yoga	12	83
	Total	191	2,001

(iv) Signal and Tele-communication Units for 2011-12

Division	DISTUs
Chennai	3,72,003
Salem	1,55,573
Palakkad	1,31,505
Thiruvananthapuram	1,80,874
Tiruchchirappalli	1,64,949
Madurai	1,19,388
Total	11,24,292
ZISTUS	31,35,638



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, spreading over Southern Railway, at present to cater the requirements of various Departments. The Stores department is arranging more than 6,412 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 2011-2012 (₹ in Crs.)	Staff Strength Group 'C' & 'D'
1	General Stores Depot, Perambur (00).	Supply of materials required for Chennai division, mainly ; Supply of uniforms throughout Southern Railway and; Supply of books and forms & money valued items to Southern Railway, South Western Railway & ICF; Major scrap depot of Southern Railway.	768	192.53	306
2	General Stores Depot, Golden Rock (24).	Supply of materials required for Trichy division	532	4.75	41
3	Divisional Stores Depot, Erode (13).	Supply of materials required for Salem, & Palakkad divisions.	458	4.48	16
4	Divisional Stores Depot, Madurai (14).	Supply of materials required for Madurai division.	398	4.44	33
5	Divisional Stores Depot, Quilon (20)	Supply of materials required for Trivandrum division.	438	5.40	16
6	Divisional Stores Depot, Palakkad (07).	Supply of materials required for Palakkad division.	343	2.83	9
7	Coach Maintenance Stores Depot, Basin Bridge (25).	Supply of C&W materials required for Chennai division.	138	3.45	15

2.2 Depots attached with Diesel/Electric Sheds :

Sl. Nos.	Name of the Depot	Brief function	No. of items stocked	Issue value 2011-2012 (₹ in Crs.)	Staff Strength Group 'C'
1	Diesel Stores Depot, Erode (08).	Supply of materials required for Diesel Loco Shed, Erode.	1090	18.77	36
2	Diesel Stores Depot, GOC (18)	Supply of materials required for Diesel POH Shed, Goldenrock.	1538	33.55	18
3	Diesel shed / Stores Depot (19).	Supply of materials required for Diesel Loco Shed, Goldenrock.	1167	12.23	40
4	Electric loco Stores Depot, Arakkonam (21).	Supply of materials required for Electric Loco Shed at Arakkonam & Royapuram.	807	9.37	22
5	Electric loco Stores Depot, Erode (22).	Supply of materials required for Electric Loco Shed / Erode.	643	8.43	18
6	Diesel Stores Depot, Ernakulam (23).	Supply of materials required for Diesel Loco Shed, Ernakulam.	937	7.43	17
7	Diesel Stores Depot, Tondiarpet (26).	Supply of materials required for Diesel Loco Shed, Tondiarpet.	767	4.82	18

2.3 Depots attached with Workshop :

Sl. Nos.	Name of the depot	Brief function	No. of items stocked	Issue value 2011-2012 (₹ in Crs.)	Staff Strength Group C
1	Loco Works, PER (01).	Supply of materials required for "Loco Works", Perambur.	1659	38.23	113
2	MSD/GOC (02)	Supply of materials required for "Mechanical Workshop", Golden Rock.	956	68.28	241
3	C & W Works, Perambur (28).	Supply of materials required for "Carriage Works," / Perambur.	1316	107.81	106
4	BS/EWS/AJJ (09)	Supply of materials required for "Engineering Workshop"/Arakkonam.	181	6.28	22

2.4 EMU Sheds :

Sl. Nos.	Name of the Depot	Brief function	No. of items stocked	Issue value 2011-2012 (₹ in Crs.)	Staff Strength Group C
1	TSD/Tambaram (10)	Supply of materials required for "Traction Depot, Tambaram and Velachery.	617	6.24	27
2	TSD/Avadi (27)	Supply of materials required for "Traction Depot, Avadi.	592	9.21	26

2.5 Depots attached to Manufacturing Shops :

Sl. Nos.	Name of the depot	Brief function	No. of items stocked	Issue value 2011-2012 (₹ in Crs.)	Staff Strength Group C
1	Signal Stores Depot, Podanur (11).	Supply of materials required for "Signal & Telecom Workshop", Podanur.	301	140.42	61
2	Wagon Production, Golden Rock (17).	Supply of materials required for "Wagon Production", Workshop, Golden Rock.	17	0.01	49

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, ICF, RRB, Construction Organisation, Railway Claims Tribunal, Railway Rates Tribunal, etc. are also undertaken by these printing presses.

2.6.1 Productivity of Printing Press at Royapuram

The production output of the General Printing Press for the year 2011–12 is 7.29 crores at DFCI against the targeted out turn 7.00 crores per year. This includes standard forms and money value items.

2.6.2 Production of Ticket Printing Factory, Trichy

Tickets are printed at Ticket Printing Factory, for the year 2011–12, only 3.65 Crores tickets have been printed against the target of Rs. 9 Crores. This is due to the fact that UTS tickets were introduced in various stations over Southern Railway causing low indent for printing of card tickets and total receipts for the year 2011–12. So, the actual production for the year 3.65 crores is very less against the targeted out turn.

3.0 ISO Certification :

Southern Railway is the first Zonal Railway to obtain ISO 9001:2000 certification for the purchase office. The same has been upgraded to ISO 9001-2008. and has been renewed upto 22nd August 2014.

4.0. P L Unification System :

Unification of PL No. of entire Indian Railway has been made operational on IIR Unification System.

Most of the stock items have got different P. L. Nos. in Zonal Railways/Production Units as well as assigned by the Railway Units themselves. In order to have one unified P. L. unification of P. L. No. is being implemented as instructed by Railway Board. COS/ Zonal Railways/Production units immediately to unify all PL Nos. of A & B Category :

Achievements : Southern Railway has assigned 255 unified P. L. Nos. to it made. Southern Railway has uploaded requests for 3,365 P. L. Nos. to other Railways. 39 P. L. Nos. were assigned by other Railways. All the P. L. Groups for which Southern Railway uploaded in the Stores site to facilitate all other Railways to unify their temporary P. L.

5.0. Materials Management Information System (MMIS) :

Module	Target Date	Current Status
Purchase	2004	Implemented
Depot	2005	Implemented
Uniform	1-01-2007	Implemented
Scrap	1-11-2007	Implemented
Stores A/C & Bill	2004	Instead of MMIS
Passing Module		Local Module has

MMIS purchase module has been successfully extended to Divisional purchase and TVC, PGT, SA.

Depot module of MMIS is working satisfactorily at all 24 stocking depots.

Sale module of MMIS has been successfully implemented at all Depots conducting and SSD/PTJ.

5.1 SMS Alert System :

This system for Store tenders has been launched on Southern Railway, according to generating SMSs to the consignees and the successful vendors about coverage of demurrage issue of Modification Advices. The system has further been expanded to provide SMS opening date against each non stock demands.

5.2 Electric Fortnightly Stores Bulletin :

Southern Railway which until now had followed the practice of printing monthly 'Stores Bulletin' has switched over to "Electronic Stores Bulletin" through vendor's e-mails from March 2011. This has enabled savings in expenditure towards printing, postal and also minimise time duration for opening of tenders.

5.3. e-procurement :

Indian Railway e-procurement web address is www.ireps.gov.in. This Railway is one of the Railway Board for implementation e-procurement in Phase-I. e-procurement was started from September 2008. More than 14,000 vendors are registered with www.ireps.gov.in. Since then Southern Railway has switched over to 100 % e-tendering.

Mandatory requirement for vendors to participate in this site is possession of valid digital signature (Individual or company name along with company name). With valid digital signature the vendors have to register themselves in the website.

Southern Railway conducts vendor training, every working Friday for the benefits of vendor participation.

5.4. e-auction :

The e-auction programme was launched successfully on 29th March 2012 in Southern Railway through the website www.ireps.gov.in. Southern Railway is the first Zonal Railway to successfully conducted e-auction after Northern Railway. Southern Railway conducted pilot auction and the scrap valuing Rs. 0.07 crores has been auctioned during March 2012.

Stores Website namely PLUS-PL

including temporary P. L. Nos) as in the entire Indian Railway, the Railway Board has already advised COS of all P. L. Nos. as possible.

Railways against 359 requests for P. L. Nos. Production Units against which only Southern Railway is nominated has been

established.

Divisions viz., MAS, TPJ, MDU,

on i.e. GSD/PER, CSSD/GOC

MMIS system is automatically generating placement of purchase orders/ tenders under case number and tender

Bulletin' for all Bulletin Tenders, 1. This has enabled savings in tenders, from 75 days to 37

the Railways/PU selected by the Railway Board with effect from 11th March 2010, Southern Railway has

Digital signature (Individual or company name) themselves in the website.

to ensure active and correct

Railway through the website e-auction after Northern Railway in March 2012.

5.5 Introduction of payment of scrap sale value through RTGS :

Southern Railway has introduced payment of scrap sale proceeds through RTGS with IDBI Bank (nationalised Bank) with effect from 23rd December 2011 and an amount of ₹ 19.96 Crores has been collected through RTGS till 31st March 2012. The usage of payment through RTGS is encouraging.

6.0 Leveraging of Technology for Transparency :—

6.1 Internet :

Materials Management Department of Southern Railway is regularly uploading the relevant information in our portal www.sr.indianrailways.gov.in. The following contents are available on Southern Railway website – www.sr.indianrailways.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* Guidelines to vendors on e-procurement.
- d) Auction program
 - (i) Down loadable auction catalogue
 - (ii) Sold details of previous auctions.
 - (iii) Year wise sale figures.
- e) *E-auction* guidelines to scrap Purchasers.
- f) Advertised tenders
 - (i) Down loadable tender forms.
 - (ii) Terms and conditions.
 - (iii) Enclosure to Tenders if any
- g) 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.
- h) Full details Purchase orders released at HQ in two links viz., valued above ₹ 20 lakhs. and valued below ₹ 20 lakhs.
- i) Telephone Directory (P & T and railway) of Stores departments.
- j) Notice Board carrying the latest developments.

6.2 Internet :

Southern Railway stores railnet address is <http://10.185.80.93/>. Site is revamped with lot of additional features like —

- a) Stock items search based on PL number, description.
- b) Provision to generate Stock Position Slip with current stock in depots.
- c) Non-Stock search based on indent number, Consignee number, Demand number, description.
- d) Vendor information and performance.
- e) *E-Bulletin* Books.
- f) On-line test both objective and subjective type to help the staff of Stores Department to refresh their working knowledge in various activities of Materials Management.
- g) PL Unification system-(PLUS) to provide a common platform for all the Zonal Railways to request and receive the Unified P. L. Number details from the respective Railways.

7.0 Stores Balance

	Maintenance
(I) Opening Balance	
Phy. stock without Adjustment	105.74
Adjustment	-0.15
Stores Suspense balance	-30.17
Total as per approx accounts	75.42
(ii) Receipts during the year.	1395.64
(iii) Issues during the year	1395.51
(iv) Closing Balance	
Phy. stock without Adjustment	75.65
Adjustment	-0.15
Stores Suspense balance	7.18
Total as per approx accounts	82.58

8.0 Inventory Performance

- 1) Overall Balance without fuel as on 31/3/2012
- 2) Overall Balance with fuel as on 31/3/2012
- 3) Total Issues (without fuel)
- 4) Total Issues (with fuel)
- 5) Turn Over Ratio (without fuel)
- 6) Turn Over Ratio (with fuel)

9.0 Economy Effected In Stationery and Other Materials.

Stringent economy is enforced in the utilisation of stationery and other materials.

10.0 Purchase of Stores**10.1 Purchase -Value of Railway Equipment and Stores 2011-2012**

(Attested by Finance and includes Track Materials also)

1. Total value of equipment & stores
2. Value of stores ordered through department of supply
3. Value of stores ordered through Railway Board
4. Value of stores ordered by the Railway Direct.

10.2 Details of purchases of Stores

Every year about 5,153 stock orders and 942 non-stock orders are released.

1. Materials imported direct
2. Materials imported through agencies in India
3. Total imported direct and through agencies
4. Indigenous materials
5. Total imported and indigenous
6. Percentage of items (4) over (5)

(figs. in crores of ₹)

Works	Total
0.32	106.06
0	-0.15
0	-30.17
0.32	75.74
0.03	1395.67
0.09	1395.60
0.26	75.81
0	-0.15
0	7.18
0.26	82.84

(figs in crores of ₹)

- 88.56
- 98.24
- 852.03
- 1408.28
- 10.39 %
- 6.98 %

of general usage.

(figs. in crores of ₹)

- 2535.74
- 7.36
- 1562.49
- 965.89

the Office of the COS
(figures in crores of ₹)

- 12.82
- 0
- 12.82
- 2522.92
- 2535.74
- 99.50 %

10.3 Purchase From Khadi, Cottage And SSI Units

Value of purchases falling within the category of cottage and small scale industrial products during the year 2011-12 amounted to ₹ 108.18 crs.

11. 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. (2011-12)

(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	282.000	2.395	2.000	4.395
2	Structural	540.087	199.079	459.32	533.892
3	Plates	2945.057	160.216	2916.652	2779.533
4	Sheets	1580.214	140.459	1624.139	1525.499
5	Spring Steel	618.289	37.552	618.289	603.024
6	Tool Alloy & Steel Plates	—	—	—	—

12. Disposal of Scrap - During 2011-12, Southern Railway generated a revenue of ₹ 342.24 Crores, by sale of various Scrap items :—

Category of Scrap	Balance as on 01.04.11		Receipts during the year		Scrap Disposed off during the year		Balance as on 01.04.2012	
	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	5850	12.39	64398	163.85	69346	173.97	902	2.27
b. Other than P. Way	198	0.40	27549	69.12	26733	66.98	1014	2.54

II. Non-ferrous Scrap.	25	0.23	2475	28.25	2429	27.67	71	0.81
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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	34	0.74	2384	50.59	2383	50.69	35	0.74
b. Coaches	12	0.47	154	6.60	161	6.86	5	0.21
c. Locos	0	0	11	3.36	9	2.75	2	0.61

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	636	0.88	2862	6.14	3398	6.82	100	0.20
Nos.	41	0.10	2269	7.10	2107	6.60	203	0.60

Shop issues :

Ferrous	: 912 mt. Value 1.91 Crs.
Non-Ferrous	: 111 mt. Value 2.00 Crs.
Misc.	: 33 mt. Value 0.07 Crs.

13. Supply of Uniforms

Clothing Factory: This is functioning at General Stores Depot, Perambur of Southern Railway. Depending upon the scales uniforms are issued to the eligible

Type of Fabric	No. of garments indented for	No. of Garments actually supplied
Terrycotton	55709	55709

In addition, 55,694 Nos. of ready made garments and 50,074 bedroll items

to the uniform requirement of and compliance is as under:-

% of compliance
100

issued during 2011-12.

14.0 Receipt, Inspection & Issues of Stores**14.1 Statistics of working of Receipts and Inspection Department of this**

	2009-10
1. No. of Staff for clerical and supervision work (Nos.)	108
2. Yearly Expenditure of staff (₹ in Lakhs.)	495.04
3. Value of stores inspected/received (₹ in Lakhs)	53973.12
4. Cost of receipts and inspection per ₹ 100 of value of stores	0.92
5. Receipt notes granted per clerk per month	40

may be as under :—

	2010-11	2011-12
105	105	94
840.27	840.27	380.24
63316.23	63316.23	49012.67
1.33	1.33	0.78
40	40	36

14.2 Statistics on Accounts and Departmental Stock Verification

	2009-10
1. Percentage of items verified	
(a) with no discrepancy.	99.57
(b) with discrepancies	
Upto limit of ₹ 50/-	0.19
Upto limit of ₹ 1000/-	0.09
Above the limit of ₹ 1000/-	0.15

	2010-11	2011-12
99.31	99.31	99.56
0.04	0.04	0.03
0.27	0.27	0.14
0.33	0.33	0.27

14.3 Loss and gain brought to light as a result of departmental and Depot verification (Stores Depots only)

Year	Loss	Gain	Net Gain	Net Loss
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	0.37	..
2011-12	1.66	0.90	..	0.76

Stores verification (Stores

14.4 Statistic on Unit cost of Issues

	2009-10
1. Value of stores issued during the year from the depots (₹ in lakhs).	70544.5
2. Pay and Allowances of depot staff (₹ in lakhs).	1238.47
3. Cost of making issues worth ₹ 100/-	1.75

	2010-11	2011-12
8514.83	8514.83	82717.88
1474.13	1474.13	1815.46
2.15	2.15	2.19

15. Availability of items (as on 31st March 2012)

1. Total No. of stocked	..	..	..	..	..
2. No. of items available	..	..	..	..	..
3. Percentage	..	..	..	..	..

2
3
%

16.0 Overstock and Surplus Stores

Details	As on 31-3-2011	(Value in lakh of ₹) As on 31-3-2012
1. Surplus	0.12	28.73
2. Over Stock	101.22	206.04

17. Printing Press

17.1 Production :— The total out-turn of Press/RPM of the year was as under:—

Items		Value of Books and forms printed (in lakh of ₹)	Value of Card tickets printed (in lakh of ₹)	Total
Work done for S.Rly.		923.41	167.88	1091.29
Work done for other Rlys.		235.10	1.67	236.77
Total		1158.51	169.55	1328.06

17.2 Paper consumption for Press during the year 2011-12

For general stationery Printing Forms and Books, and for stations and ticket offices, Boards – 395 MTs.

17.3 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		
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	24,64,594	3,46,33,450
2011-2012	28,42,689	2,69,87,000
(ii) Work done for others Rlys.		
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
2011-2012	2,86,083	2,68,800

18.0 Shipping and Imports :

During 2011-12, the imported consignment is NIL

19.0 Right to Information Act .

A total No. of 61 cases were dealt during 2011-12 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. Total number of employees presently working in Southern Railway are 1,06,328 and 49,956 retired employees have also registered in the RELHS for availing the health facilities. The total number of Railway beneficiaries are 5,31,640.

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 viz. Cardiology, Cardio-Thoracic Surgery and Nephrology. The 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 1135. 42 Health Units are functioning at different stations on this Railway and there are 13 lock-up dispensaries. A total of 198 doctors, 21 Group B Officers consisting of ANO, AHO, AHEO, APO and APHO. About 1932 para medical staff consisting of 515 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
Palghat—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

Lock up Dispensaries viz : Kadaperi, Kumbakonam, Thiruthuraipoondi, Needamangalam, Ariyalur, Athur, Chinnasalem, Chidambaram, Nagappattinam, Mannapara, Milavittan, Pattukottai, Rameswaram.

ARME

SPART, ARME SCALE locations :—

ARME Scale I

Division	Broad Gauge
Chennai	Jolarpettai, Chennai Central, spart
Golden Rock	Tiruchchirappalli, Villupuram, Tiruvarur
Madurai	Madurai

Palakkad Mangalore Shoranur

Trivandrum Ernakulam Trivandrum

Salem Erode

42 Health Units viz.

Chennai Divn. : 11—J New Genl. Office, Chennai, Tambaram, Chengalpattu

Tiruchchirappalli Divn. : 3—Tiruchchirappalli Junction, Tiruchchirappalli, Tiruvannamalai, Tirunelveli, Mayiladuthurai, Tiruvannamalai

Madurai Divn. : 9—Madurai, Karaikudi, Sengottai, Tirunelveli, Virudhunagar.

Palghat Divn. : 4—Malappuram, Kannur, Calicut, Pollachi.

Trivandrum Divn. : 10—Trivandrum, Ernakulam, Quilon, Kottayam, Nagercoil, Trichur, Alappuzha

Salem Divn. : 4—Salem, Erode, Tirupattur, Tirupur, Tirupattur, Tirupur, Tirupattur

SCALE II in the following

ARME Scale II		
Broad Gauge	Metre Gauge	Narrow Gauge

Arakkonam	..	..
Katpadi	..	..
Sullurpet	..	..
Virudhachalam	..	..
Mayavaram	..	..
Tiruvannamalai	..	..
Dindugul	..	..
Karaikudi	..	..
Manamadurai	..	..
Mandapam	..	..
Virudhunagar	..	..
Tirunelveli	..	..
Tuticorin	..	..
Palani	..	..
Sengottai	..	..
Cannanore	..	Pollachi
Calicut	..	..
Palghat	..	..
Nagercoil	..	..
Quilon	..	..
Kottayam	..	..
Alleppey	..	..
Trichur	..	..
Podanur	..	..
Salem	..	Coonoor
Karur	..	..

Arakkonam, Katpadi, Haffieldpet, Avadi, Jolarpet, Tondiarpet, Royapuram, Sullurpet.

3—Tiruchchirappalli Junction, Tiruchchirappalli, Tiruvannamalai, Tirunelveli, Mayiladuthurai, Tiruvannamalai

Dindugul, Mandapam, Palani, Karaikudi, Sengottai, Tirunelveli, Manamadurai, Tirunelveli, Virudhunagar.

Malappuram, Kannur, Calicut, Pollachi.

Ernakulam, Quilon, Kottayam, Nagercoil, Trichur, Alappuzha

Tirupattur, Tirupur, Tirupattur, Tirupur, Tirupattur

Statistics

Man Power	Staff Strength	On Roll	Vacancies
Doctors	198	156	42
Nurses	515	456	55
Other paramedical	1,932		

From : April-2011 to March-2012

Health Care :

Total OPD Nos.	..	20,53,851
Total IPD Nos.	..	39,227
Major Surgeries	..	5,456
Special Surgeries	..	2,073
Minor Surgeries	..	2,394

Industrial Health :

Total No. of RMCs Issued	..	1,02,235
Total No. of Man- days loss	..	12,66,400
Man-day's lost due to IOD/ HOD	..	66,319

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 for 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, 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 other auxillary 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 2011-2012, 679 Open Heart Surgeries and 21 closed Heart Surgeries (this includes various surgical procedures for coronary artery diseases, congenital heart disease and rheumatic heart disease) were done. About 392 PTMC, PTCA, PVP, PTR and 1577 Cardiac Catheterisation and Coronary Angiography were performed 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 catheterization, 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 advancements 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 4496 haemodialysis, 9 peritoneal dialysis, 7 renal biopsies, 7 transplants 26 (CAPD) continuous ambulatory peritoneal dialysis were performed during the year.

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. 1,080 endoscopies were performed during the year. This department is recognised by National Board of Examinations for Post Graduate degree in General Surgery.

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 of 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. This department is well-equipped and offers good quality service to the patients. This department is recognised by National Board of Examinations for Post Graduate degree in Obstetrics & Gynaecology

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. This department is recognised by National Board of Examination for post graduate degree in Paediatrics.

7. Department of Psychiatry :

A full-fledged department of Psychiatry is functioning in this hospital. De-addiction center, Memory clinic, Counseling centers are available conducted regular awareness programmes for employees every month.

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. This department is recognised by National Board of Examination for post graduate degree in Orthopaedics.

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 1,678 cataract operations were performed during the year 2011-2012.

11. Department of Radiology :

Department of Radiology has facility to do, apart from routine procedures, contrast studies and ultrasound scanning.

12. Department of Labo

This hospital has a consists of a blood bank Screening for HIV and s done.

13. Department of Telen

Telemedicine facility is Perambur and Zonal Ra N.F.Railway, Danapur Allahabad N.C. Railway.

Connectivity is also a Perambur and all other Railway.

Teleophthalmology is a and Sankara Nethralay being held.

14. Best Health Unit :

To improve efficiency customer satisfaction, a shield for best Health U Health Units every year. has been adjudged as tr was presented by GM dur

15. Public Health :

Public health wing important stations and co safe drinking water to the population. Control an diseases is a major work

16. FSSA-2011 :

PFA act 1954 has be and New Food Safety a implemented from Septe Food Safety Wing conse Officer), and Two FSO- (Fo to implement this Act throu licensees to unit catering

Food samples were analysis and action init collected during 2011-201

No. of food samples colle

No. found adulterated / Mi

No. of cases filed in the PFA Act-1954 against d

Amount realized through imposed on offenders u

Quality of water sup monitored by conducting and for bacteriological water samples found fit du

1. For Bacteriologica

2. For Residual Chlo

/ Medicine :

equipped laboratory, which ology lab. and microbiology. hepatitis B and C are routinely

ne :

ble between Railway Hospital, Hospitals, such as Maligaon, Railway, Central Hospital,

le between Railway Hospital onal hospitals in Southern

le between Railway, Perambur gular case discussions are

health services and to ensure shield called "CMD's Rolling given to the best maintained ear HU/TEN/ of MDU division t Health Unit and the shield Railway Week Celebrations.

ding after the sanitation of and monitoring the quality of ng public as well as to Railway vention of communicable s wing..

pealed during August 2011 ndards Act 2006 has been 2011 onwards. A separate of One DO- (Designated aty Officer) have been formed Southern Railway. New food re being issued by this wing.

ted regularly and sent for Details of Food samples given below:

No. of food samples colle	=	142
No. found adulterated / Mi	=	29
No. of cases filed in the		
under		
rs	=	3 cases

FA Act - Rs. 60,000/-

at stations and colonies are r tests for residual chlorine hemical analysis. Details of 2011-2012 are given below :-

ysis	=	80.00 %
	=	81.00 %

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 HQ level.

17. 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 Officers to improve the standard of cleanliness. A1- category station MAS& MS of Chennai Division are posted with AHO and they are monitoring the cleaning activities round the clock. Modern equipments and machineries were introduced to improve and maintain the standard of sanitation at higher order.

As per MR's directives on cleanliness and passenger amenities special cleaning 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

18. 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.

19. 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 408, which includes 256 asymptomatic cases and 152 full blown AIDS cases. All the HIV cases are regularly followed up and required care and support have been rendered by the counsellors, attached to the four Integrated Counselling and Testing Centres (ICTC) in Southern Railway. Anti Retroviral Treatment is being administered at Railway Hospital Perambur to all the people (152) living with HIV Positive, to enhance the quality of life.

20. 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 2011-2012, 532 sterilizations have been conducted through out Southern Railway. Regular Laparoscopic sterilization camps were also conducted. This year Six Laparoscopic camps were conducted. 20 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 FWC/RH/PER.

21. 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.

22. Master Health Check up :

18,100 Railway employees above 50 years were the beneficiaries through 27 camps all over the Southern Railway.

23. Pulse Polio Immunisation :

Pulse Polio Immunisation was given to 27,748 children below 5 years during campaign in February 2012.

24. 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.

25. 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, one 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, 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, Tiruvarur, Vridhachalam, Tanjore and Thiruvannamalai). There are 32 Medical Officers posted in TPJ Division. In the Divisional Hospital all routine and specialised works are being done in all the fields. The Divisional Hospital has been recognised by MCI for Senior House surgeonship 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 Surgeonship 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 ICCU unit. This hospital is also recognised by MCI for Senior House Surgeonship. 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, Cannanur, 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 post is functioning at Irumpanam which is attended by Sr.DMO/Ernakulam on a programmed basis. One more Medical out post 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 Chief Medical Superintendent. The Hospital at TVC has a sanctioned strength of 9 doctors. A dental clinic is also functioning at RH/TVC with a full time DDS.

In the Divisional Hospital Pettah, 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 also available.

2. Statistics for the year**2011 and 2011-12**

Sl. No.	Particulars	2010-11	2011-12
1.	Total No. of staff	1,06,823	1,06,328
2.	Cost of Medical service	1,25,88,93,000	1,51,41,99,000
3.	Cost of Medical service per head per annum.	11,784.84	14,240.83
4.	Cost of Health service thousands of rupees	26,13,55,000	25,97,13,000
5.	Cost of Health service head per annum.	2446.61	2442.56
6.	(a) Cost of drugs in rupees	35,13,91,000	52,26,67,000
	(b) Total amount of reimbursement	..	..
7.	Total cost of Medical service per annum per Rs.	14,231.45	16,683.39
8.	No. of Rly employees & families treated-New	5,39,698	4,63,940
9.	No. of females & child treated - New cases	1,98,401	1,80,985
10.	Daily average - out of attendance of Rly. employees & their families at Rly. Health units/ old & new cases	6668	6523
11.	No. of Hospital	11	10
12.	No. of Health Units		
	A With beds	41	41
	B Without beds	1	1
13.	No. of Railway population Railway Hospital/ health units	11247	10030
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	862
	B TB	57	57
	C Maternity	126	126
	D Isolated	5	5
	E ICCU	85	85
	Total	1236	1135
18.	Health units		
	A Emergency beds	52	52
	B Maternity beds	18	18
19.	Total No. of beds in health units, chest clinics & employees	1,306	1205
20.	No. of beds per 1000 including TB beds.	10.36	9.51
21.	No. of beds per 1000 employees excluding TB	9.88	10.13
22.	No. of TB beds reserved for railway institutions.	0	0
23.	No. of doctors		

Sl. No.	Particulars	2010-11	2011-12
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	5	3
F	Medical Superintendent/ Sr.DMOs.	205	187
G	Medical Directors	1	1
H	Chief Surgeon	1	1
I	Chief Staff Surgeon	1	2
J	Chief Dy.Medical Supt.	0	0
K	Chief Paediatrician	0	0
L	Chief Gynecologist	0	0
	Total	217	198
24	No. of Rly. Population per Rly doctor.	2798	2740
25	No. of mobile vans	0	0
26	Accident relief medical equipment		
	ARME scale I	13	11
B	ARME scale II	28	26
27	No. of operations performed		
A	Major	5510	5456
B	Minor	4377	4467
C	Trivial	5997	5337

Sl. No.	Particulars	2010-11	2011-12
28	Family welfare activities		
A	Centres	4	4
B	Sub- Centres	2	2
29	No. of sterilization operation performed		
A	Tubectomy	550	532
B	Vasectomy	27	20
	Total	577	552
30	No. of I.U.D. inserted	156	103
31	No. of conventional contraceptives distributed		
A	Condom users	2721	2335
B	Diaphragm	0	0
C	Jelly cream tubes	0	0
D	Foam tablets	0	0
32	Oral pills distributed		
A	No. of oral pills	1294	1588
B	No. of users of oral pills	99	122
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 2011-2012 compared with 2010-2011

Group of staff	Number of staff					
	Open line		Construction		Total	
	2011-12	2010-11	2011-12	2010-11	2011-12	2010-11
Group 'A'	430	477	127	85	557	562
Group 'B'	510	458	105	107	615	565
Group 'C'	90,600	92,115	1,725	1,579	92,325	93,694
Group 'D'	980	875	15	45	995	920
Total	92,520	93,925	1,972	1,816	94,492	95,741

		Cost of staff (Rs. in lakhs)	
		2011-2012	2010-2011
Group 'A'	..	11,063.45	9,316.01
Group 'B'	..	6,198.60	4,875.38
Group 'C'	..	4,80,628.87	4,49,222.6
Group 'D'	..	1,451.61	1,345.00
Total	..	4,99,342.53	4,64,758.99*

* 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 2011-2012			No. actually appointed in 2011-2012		
	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 : 2011-2012.

(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'	420	291	288	138
(ii) Within Group 'D'	-	-	-	-

(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'	1156	809	889	402
(ii) Within Group 'D'	117	81	37	10

(c) Short fall in SC/ST/OBC as on 31st March 2012

Recruitment Categories	Scheduled Castes	Scheduled Tribes	Other Backward classes
Group 'C'	228	244	318
Group 'D'	58	160	262

(d) Short fall in SC/ST as on 31st March 2012

Promotional Categories	Scheduled Castes	Scheduled Tribes
Group 'C'	685	1018
Group 'D'	175	288

(e) Statement showing Number of employees belonging to Scheduled Castes and Scheduled Tribes as on 31st March 2012 —

Group	Total No. of employees as on 31-3-2012	Scheduled Castes
Group 'A'	550	16
Group 'B'	592	24.32
Group 'C'	74,011	16.8
Group 'D'	17,372	19.35
(excluding Safaiwala).		
Group 'D'	1,457	43.44
(Including Safaiwala)		

4. Recruitment and

4.1 Recruitment :

(a) (i) Group "A" and "B" candidates were made during the year 2011-2012 as well as to Group "A" as well as to Group "B" service that

Department	Group 'A'	Group 'B' (Promotion)
Personnel	..	3
General Management	..	9
Electrical	..	1
Transportation (Traffic & Comm.)	..	11
Engineering	..	15
Stores	..	7
S & T	..	8
Medical	..	9
Mechanical	..	9
School	..	4

(a) (ii) Number of Group 'A' and 'B' candidates during the year 2011-2012

IRPS—2, IRSEE—6, IRSE—0, IRSME—3

4.2 Training :

(a) (i) Group 'A' and 'B' Staff strength on 31-03-2012.

Sl. No.	Department	Group 'A'	Group 'B'
1.	General Management	29	45
2.	Personnel	23	43
3.	Accounts	32	74
4.	Engineering	87	166
5.	Transportation & Comm.	41	59
6.	Mechanical & CMT	34	62
7.	Stores & Press	34	25
8.	Electrical	45	65
9.	Signal & Telecomm.	23	82
10.	Medical	160	26
11.	Security	23	..
12.	Railway School	..	7

(a) (ii) The number of employees who attended the training courses during the year 2011-2012

Training Institute	Mandatory Course
RSC-Vadodara	31
IRICEN-Pune	93
IRISET-Secunderabad	25
IRIMEE-Jamnapur	20
IRIEN-Nasik Road	..

Number of employees belonging to Scheduled Castes and Scheduled Tribes as on 31st March 2012

Percentage	Scheduled Tribes	Percentage
16	39	7.09
24.32	39	6.58
16.8	4,673	6.31
19.35	1,298	7.47
43.44	58	3.98

ing

vice— Permanent appointment to Group "B" service that 1-2012, are as follows :-

Group 'A'	Group 'B' (Promotion)
..	3
..	9
..	1
..	11
..	15
..	7
..	8
..	9
..	9
..	4

Officers absorbed in Group 'A'

S—12, IRSE—8, IRSS—5,

services.

Railway Department wise as

Group 'A'	Group 'B'
29	45
23	43
32	74
87	166
41	59
34	62
34	25
45	65
23	82
160	26
23	..
..	7
532	654

icers who attended the training -12 are as follows :-

Mandatory Course
31
93
25
20
..

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.	2010-2011 No. of units	2010-2011 Approximate cost (₹ in lakhs)	2011-2012 No. of units	2011-2012 Approximate cost (₹ in lakhs)	No. of quarters under various stages of construction as on 31st March-2012	2010-2011 No. of units	2010-2011 Approximate cost (₹ in lakhs)	2011-2012 No. of units	2011-2012 Approximate cost (₹ in lakhs)	No. of quarters under various stages of construction upto 31st March, including as on 31st March 2012	Total No. of quarters provided upto 31st March, in schemes, new lines-doubling, etc;
1.	Type I	99	495.60	0	0	0	4	24.00	4	24.00	0	40
2.	Type II	150	998.20	128	1091.00	135	34	238.00	12	84.00	0	1064
3.	Type III	18	142.40	8	81.20	27	17	136.00	2	16.00	0	267
4.	Type IV	23	272.20	19	221.04	24	6	54.00	0	0.00	6	80
5.	Type IV (Special)	0	0.00	0	0.00	0	0	0.00	0	0.00	0	0
6.	Type V	8	176.00	8	184.00	10	0	0.00	0	0.00	0	8
7.	Barracks	0	0.00	0	0	0	0	0.00	0	0.00	0	0

(ii) The position regarding quarters for Class III and Class IV as indicated below.—

Sl. No.	Category	No. of staff Qtrs. as on 31st March 2012		No. of Staff Quarters available as on 31st March 2012	
		Essential	Non-Essential		
1.	Class III	40484	30714	Type I	= 16,472
2.	Class IV	4517	3890	Type II	= 9718
				Type III	= 2479
				Type IV	= 1197
				Type V	= 31
Total		45,001	34,504	29,897	

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					
(i) Signal	183	..	(c) Construction		
(ii) Tele-communication	132	..	(i) Railway Electrification	263	45
(iii) Microwave	148	1	(ii) Organization	79	13
2. Civil Engineering Department					
(i) Civil Engineering Permanent Way	368	..	4. Commercial		
(ii) Civil Engineering Works	365	..	(i) Commercial Clerks	2,830	..
(iii) Civil Engineering Bridges	53	..	(ii) Ticket Checking Staff	3,322	..
(iv) Civil Engineering Workshop	..	..	(iii) Catering Staff	14	..
3. Electrical Department					
(a) Workshop & production Units			5. Operating		
(i) EMUs	1,492	101	(i) Train Clerks	373	..
(ii) Others	1,495	381	(ii) Guards	1,474	..
(iii) Electric Loco	..	..	(iii) Traffic Signallers	..	..
(b) Open Line			(iv) Shunting Staff	2,998	2,451
(i) Electrical Loco Shed	1,382	285	(v) Yard Staff	..	..
(ii) EMU Shed	..	..	(vi) Others	..	..
(iii) Rolling Stock Operation	2,650	..	6. Mechanical		
(iv) Traction Distribution	1,086	801	Workshops & Production Shops		
(v) General Services	2,782	1,692	(i) Steam Locos	..	..
			(ii) Diesel Locos	164	..
			(iii) Carriage & Wagon	..	..
			(iv) AC Loco	201	27
			(v) Other activities	..	..

XIII. AMENITIES FOR PASSENGER

1. Permanent Augmentation during the Financial year 2011-12.

Month	Train No. & Description	ACCW	FC	GSCN	GS	GSCZ/ GSCZJ	TOTAL	No. of Rakes	Net coaches added
April	12677/12678 SBC-ERS Exp. ..	..	..	..	..	2	2	2	4
	16340/16339 NCJ-CSTM Exp..	..	..	..	..	..	..	..	..
	12666/12665 CAPE-HWH Exp.	..	..	1	1	..	2	5	10
	16352/16351 NCJ-CSTM Exp...	..	..	..	..	..	..	..	..
	12243/12244 MAS-CBE Duronto Exp.	..	..	..	..	..	3	1	3
May	16313/14 ERS-CAN Exp. ..	..	..	..	..	1	1	1	1
June	NIL.								
July	56607/56608 SRR-ERS Passr.	..	..	..	2	..	2	1	2
	16343/16344 TVC-PGTN Exp...	..	..	1	..	..	1	2	2
	16347/16348 TVC-MAQ Exp. ..	..	..	1	..	..	1	4	4
	12620/12619 MAQ-LTT Exp. ..	..	..	..	..	..	..	..	..
	16307/16308 ALLP-CAN Exp...	..	..	..	..	1	1	1	1
	16313/16314 ERS-CAN Exp. ..	..	..	..	..	..	..	..	..
	12633/12634 MS-CAPE Exp. ..	..	..	1	..	..	1	2	2
	12601/12602 MAS-MAQ Mail ..	..	..	..	..	..	..	..	..
	16627/16628 MAS-MAQ West Coast Exp.	..	..	..	..	..	..	..	..
	16603/16604 MAQ-TVC Maveli Exp.	..	..	1	..	..	1	8	8
	16629/16630 TVC-MAQ Malabar Exp.	..	..	..	..	..	..	..	..
	16315/16316 SBC-KCVL Exp...	..	..	2	..	..	2	1	2
	12084/12083 CBE-MV Exp. ..	..	..	..	..	1	1	1	1
	12758/12757 CBE-TPTY Exp...	..	..	..	..	2	2	1	2
	12544/12543 TPTY-YPR Exp. ..	..	..	..	..	..	..	..	..
	16780/16779 MDU-TPTY Exp...	..	..	1	..	..	1	1	1
Aug.— Nov.	NIL								
Dec.	16735/16736 MS-TCN Exp. ..	..	..	1	..	..	1	4	4
	16179/16180 MS-MQ Exp. ..	..	..	..	..	..	..	..	..
	16346/16345 TVC-LTT Exp. ..	..	..	1	..	..	1	4	4
	16780/16779 MDU-TPTY B-Wkly. Exp.	..	..	1	..	..	1	1	1
	12611/12612 MAS-NZM Garib Rath Exp.	..	..	..	..	..	1	1	1
	12753/12754 MAS-NJP Wkly. Exp.	..	..	1	..	..	1	1	1

1. Permanent Augmentation during the Financial year 2011-12.—concl'd.

Month	Train No. & Description	ACCW	ACCN	GSCZAC/SCZACEN	FC	GSCN	GS	GSCZ/SCZJ	TOTAL	No. of Rake	Net coaches added
Jan.	16115/16116 MS-PDY Exp.	..	..	..	..	..	2	..	2	1	2
	16175/16176 MS-KIK Exp.	..	..	..	..	1	..	..	1	4	4
	16865/16866 KIK-ERS Exp.	..	..	..	..	1	..	..	1	4	4
	16614/16613 CBE-RJT Weekly Exp.	..	1	..	..	..	..	..	1	1	1
	12788/12787 TEN-BSP Weekly Exp.	..	1	..	..	2	..	..	3	1	3
	22601/22602 MAS-SNSI Weekly Exp.	..	..	..	..	2	..	..	2	1	2
	16735/16736 MS-TCN Exp.	..	..	..	..	1	..	..	1	4	4
	16179/16180 MS-MQ Exp.	..	..	..	..	1	..	..	1	4	4
	12789/12790 RMM-CAPE Exp.	..	..	..	..	1	..	..	1	1	1
	16780/16779 MDU-TPTY Exp... ..	..	..	..	..	2	..	..	2	1	2
	12758/12757 CBE-TPTY Exp... ..	..	..	..	..	..	1	1	1	1	1
	12544/12543 TPTY-YPR Exp.	..	..	..	..	..	..	..	..	..	..
	12753/12754 MAS-NJP Weekly Exp.	..	..	..	..	1	..	..	1	1	1
	16303/16304 ERS-TVC-ERS Exp.	..	..	..	..	..	2	2	1	2	2
	16341/16342 GUV-TVC-GUV Exp.	..	..	..	..	..	1	1	1	1	1

2. Drinking Water Arrangements

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
---------	-----------	--------------	-------------------------------

(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	..	(a) DG - Proposed construction of RCC GLR 90000 lit. capacity and OHT and pipe line arrangements. 99.10	
	..	(b) DG - Augumentation of water storage for the requirement of Station cleanliness. 7.63	

7. CE/CN/MS	..	Nil.	
8. MTP	..	Nil.	

(i) Works costing less than ₹ 5 lakhs each :—

1. MAS	..	Saidapet - Electro Chlorinator	0.15
2. SA	..	Nil.	
3. PGT	..	Nil.	
4. TVC	..	Nil.	
5. TPJ	..	Nil.	
6. MDU	..	Nil.	
7. CE/CN/MS	..	Nil.	
8. MTP	..	Nil.	

(B) Works in Progress

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

1. MAS	..	ANNR - Lorry water supply	25.00
	..	ENR - Lorry water supply	11.00
2. SA	..	ED - Cauvery River water supply	5.55
	..	KLT - ADEN/KRR sub division. Construction of GLR, OHT and water supply arrangements at KLT stations.	25.85
3. PGT	..	Provision of bore wells, along with pumping arrangements and distribution system at Railway Colony/Hospital colony.	10.00
	..	Provision of purified drinking water to stations through water treatment systems..	13.00
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.	TPJ	..	Nagappattinam and Nagore. Augmentation of water supply at NGT, NCR (id. 1578/07-08) CE./OL.	15.00	(ii) Works costing less than		
					1.	MAS	.. Nil
					2.	SA	.. Nil
6.	MDU	..	(a) KKDI - Borewell and Augmentation of pipeline arrangements.	9.20	3.	PGT	.. Nil
					4.	TVC	.. Nil
					5.	TPJ	.. Nil
			(b) MDU Jn. Proposed improvements to existing hydrants in between platforms 1 & 2.	19.18	6.	MDU	.. PDKT and arrat
7.	CE/CN/MS	..	Nil		7.	CE/CN/MS	.. Nil
8.	MTP	..	Nil		8.	MTP	.. Nil

lakhs each :—

sed construction of GLR 3.31
and pipe line
its.

Drinking Water Arrangements Taps/Hand Pumps/Water Huts Provided

Division	Taps available during 2010-11	Taps available during 2011-12
MAS	2,109	2,174
TPJ	1,116	1,295
MDU	1,818	1,889
SA	591	643
PGT	950	993
TVC	1,286	1,352
Total	7,870	8,346

Taps provided during 2011-12

65

179

71

52

43

66

476

Water Coolers Provided

Division	Coolers available during 2010-11	Coolers available during 2011-12
MAS	137	137
TPJ	33	33
MDU	54	54
SA	22	22
PGT	48	48
TVC	53	53
Total	347	347

Coolers Provided during 2011-12

0

0

0

0

0

0

0

3. Details of Passenger Amenity Works over Southern Railway during 2011-12.

1. During the year 2011-12, 34 passenger amenity works costing ₹ 23.16 crores were completed.

During 2011-12 out of budget grant of ₹ 54.90 crores actually 58.70 crores were spent which is 107% of the Budget grant.

4. Catering :

The catering policy 2010 was circulated vide commercial circular No. 35 dated 21/7/2010.

According to this Plazas, Food Co managed by Railw units were taken c Railways. Railwa 464/II/NBSP-III da taking over from stalls in A, B, C ca

all catering units except Food & Fast food units are to be 41 Mobile units and 740 static om IRCTC for management by rd vide letter No. 2010/TG-III/ 3-03-12 had also advised the of the management of Book / stations.

5. 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 / CAPE
3. Jan Ahar Stall / ED
4. Jan Ahar Stall / AJJ

6. Departmental Catering on Trains :

(a) Under Management of Railways

1. Train No. 12081/12082 Jan Shatabdi Exp.

(b) Under Management of IRCTC.

1. 12641/12642 Thirukkural Exp.
2. 12269/12270 Duroto Exp.
3. 12625/12626 Kerala Exp.
4. 12243/12244 Duroto Exp.

7. Contract Catering :—

(a & b) 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) Train side vending	..	..	..	..	..	..	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	8	..	126
5	Milk stalls	19	25	12	7	24	7	..	94
6	AVMs	48	..	6	6	7	30	..	97
7	Medicine stall	..	..	1	..	..	..	..	1
8	Book stall	2	11	4	2	1	..	..	20
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	172	117	126	152	95	63	1904

(c) 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 | 11. Trivandrum (Closed) |
| 2. Chennai Egmore | 12. Coimbatore |
| 3. Madurai | 13. Katpadi |
| 4. Ernakulam North | 14. Palakkad |
| 5. Ernakulam Jn. | 15. Calicut |
| 6. Tiruchchirappalli Jn. | 16. Mangalore |
| 7. Shoranur | 17. Kannur |
| 8. Chennai Beach | 18. Erode |
| 9. Trichur | 19. Chennai Central (Coffee Plaza) |
| 10. Chennai Park | |

(d) 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
21. 16353/16354 TPTY-CSTM Exp. Bi-weekly
22. 16359/16360 ERS-PNBE Exp. Weekly
23. 12663/12664 TPJ-HWH Exp. Bi-weekly
24. 16127/16128 MS-GUV Exp. Daily
25. 12679/12680 CBE-MAS Intercity Exp. Daily
26. 12687/12688 MAS-DDN Exp. Weekly
27. 16311/16312 TVC-BKN Exp. Daily
28. 12651/12652 MDU-NZM Sampark Kranti Exp. Bi-weekly
29. 16865/16866 ERS-NCR Exp. Daily
30. 16733/16734 RMM-Okha Exp. Weekly
31. 12655/12656 MAS-ADI Navajeevan Exp. Daily
32. 16687/16688 MAQ-JAT Navayug Exp. Weekly
33. 16381/16382 CAPE-CSTM Exp. Daily
34. 12621/12622 Tamil Nadu Exp. Daily
35. 16333/16334 TVC-VRL Exp. Weekly
36. 12615/12616 MAS-NDLS Grand Trunk Express. Daily
37. 12639-12640 MAS-SBC Brindavan Exp. Daily
38. 12605/12606 MS-TPJ Pallavan Exp. Daily
39. 12635/12636 MS-MDU Vaigai Exp. Daily
40. 16649-16650 TVC-MAQ Parasuram Exp. Daily
41. 16301-16302 TVC-SRR Venad Exp. Daily
42. 12669-12670 MAS-CHAPRA GK Exp. Weekly

In addition 22 train side vending contracts are being operated in Mail/Express trains without pantry car.

8 Cheap Food Packets

Exclusive Jan Ahars are functioning at MAS & CAPE, which are managed by Railways. Outlets selling Janatha Khana are also functioning in 49 stations in existing licensee operated units managed by Railways.

9 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, 1 Coffee Plaza, 5 Fast Food units at various stations over Southern Railway 4 mobile units.

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 and savories are being served at food plazas.

Base Kitchens: In accordance with catering policy 2010, 1 Mega Base Kitchen and 7 cell kitchens which have been taken over from IRCTC are to be converted to Base Kitchens by Railways.

Catering Monitoring

For immediate rectification of deficiencies, CMC is functioning at Headquarters and the Commercial CMC at PGT & SA has been set up. MAS-MYS Shatabdi Express Train and the service provided by Catering Inspector. Also rostered to monitor the trains. Daily and feed

onfectionaries, Indian Sweets and savories are being served to customers through these food plazas.

ce with catering policy 2010, 1 Mega Base Kitchens are proposed. 7 cell kitchens which have been taken over from IRCTC are to be converted to Base Kitchens by Railways.

CMC: To ensure prompt and efficient handling of deficiencies and complaints, a Catering Monitoring Cell (CMC) is functioning at Headquarters and TVC Division is functioning in MAS, MDU, TPJ, Chennai. Train No. 12007/12008 has been indentified as Show Case train and the service provided is monitored regularly by deputing one Catering Inspector. Also rostered to monitor the trains. Daily and feed

10. Details of Amenities provided during the Year 2011-12

Sl. No.	Description of Amenity	Unit	Amenities MAS Divn.		Amenities SA Divn.		Amenities PGT Divn.		Amenities TVC Divn.		Amenities TPJ Divn.	
			Provided during the year 2011-12	Expenditure in thousands of ₹	Provided during the year 2011-12	Expenditure in thousands of ₹	Provided during the year 2011-12	Expenditure in thousands of ₹	Provided during the year 2011-12	Expenditure in thousands of ₹	Provided during the year 2011-12	Expenditure in thousands of ₹
1	Waiting hall	Sq. m.	..	..	..	..	..	..	..	..	..	..
2	Seating arrangements	Nos.	..	..	198	1397000	148	115	870	870	..	..
3	Covering platforms	Sq. m.	850	4146	1574	14058000	155.21	903.85	3992	28100	..	..
4	Drinking water arrangements											
1.	Hand pumps	Nos.	..	..	..	..	40	320.00	..	..	..	..
2.	Taps	Nos.	1	10	..	..	..	..	..	..	38	..
5	Foot over bridge	Sq. m.	..	..	214001	..	1	7273	..	..	..	..
6	Waiting rooms	Sq. m.	..	..	2	..	..	..	4	9000	..	..
7	Suitable platform including raising	Nos.	..	..	3180	15000000	1560	20200	1730	8000	950	..
8	Booking windows-cum-reservation counter.	Nos.	..	..	136	5046105	4	5000	..	..	..	..
9	Sanitised latrines	Nos.	..	..	..	..	..	..	..	..	..	..
10	Waiting-cum-booking office	Nos.	..	..	..	..	1	5000	..	..	..	..
11	Retiring rooms	Nos.	..	..	..	..	..	..	..	..	..	..
12	Enquiry counters	Nos.	..	..	..	..	..	..	..	..	..	..
Total			851	4156	5090360	15106	1909.21	38631.85	6596	45970	988	..

Sl. No.	Description of Amenity	Unit	Amenities MDU Divn.		Amenities CE/CN/MS		Total Expenditure in thousands of ₹
			Provided during the year 2011-12	Expenditure in thousands of ₹	Provided during the year 2011-12	Expenditure in thousands of ₹	
2	Waiting hall	Sq. m.	..	3786	218	1,417	5203
..	Seating arrangements	Nos.	..	..	133	798	1398783
6	Covering platforms	Sq. m.	4206	..	7613	49485	14144840.85
..	Drinking water arrangements						
..	1. Hand pumps	Nos.	..	..	17	153	473
..	2. Taps	Nos.	..	..	111	999	1237
..	Foot over bridge	Sq. m.	..	104	..	2000	23378
..	Waiting rooms	Sq. m.	..	..	140	1190	10190
..	Suitable platform including raising	Nos.	..	..	32000	27904	15563007
..	Booking windows-cum-reservation counter.	Nos.	..	1880	6	60	5053045
..	Sanitised latrines	Nos.	..	..	6	300	300
..	Waiting-cum-booking office	Nos.	..	..	6	1020	6020
..	Retiring rooms	Nos.	..	..	..	..	..
..	Enquiry counters	Nos.	..	2365	..	..	2365
8	Total		12341	40250	85326	50195520.85	

11. Passenger Amenity Works Completed during 2011-12

Sl. No.	Work	Cost in ₹ Lakhs
1	CHENNAI CENTRAL - Laying of CC apron on PF No. 1,2A,3, 4 & 5 (id : OT/2002-03) CE/OL	29.13
2	GUMMIDIPUNDI - GUDUR Section - Provn. of FOB @ Akkampet halt stn. OT/2004-05) CE/OL	28.99
3	CHENNAI BEACH - Improvements to platform surface at PF No. 5 & 6 with vacuum dewatered concrete (id: 1499/09-10) CE/OL.	45.01
4	SALEM DIVISION - Provision of drinking water facilities at Goodsheds of SA, SAMT, ED, IGU, PLMD & CBF (id : 1679/08-09), CE/OL	49.50
5	CANNANORE - Construction of second entry booking office and shifting of PRS centre (id : 1284/02-03) CE/OL ..	47.50
6	PALAKKAD DIVISION - Upgradation of passenger amenities at Kannur station (id : 1510/09-10) CE/OL	99.00
7	PALAKKAD DIVISION - Provision of purified drinking water to stations through water treatment systems (id:1520/09-10) CE/OL.	48.80
8	ERNAKULAM Jn. - Paving of platform No. 2/3 with kota stone or similar flooring (id : 1695/08-09) CE/OL	49.00
9	MAYYANAD - Provision of Foot Over Bridge (id : 1696/08-09), CE/OL	45.00
10	TRIVANDRUM DIVISION - Provision of shelter in PF 2 & 3 at PVU and Pf 1 and PF 2 at CRY (id : 1526/09-10), CE/OL ..	74.00
11	THANJAVUR Jn. - Extension and raising of PF No. 1 for 24 coach length (id : 1978/07-08), CE/OL	49.77
12	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
13	KOVILPATTI - Remodelling of station building and provision of greeneries in circulating area (id : 1328/06-07), CE/OL ..	49.50
14	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
15	MADURAI Jn. - Construction of new Parcel Office complex (id : 1994/07-08) CE/OL	48.00
16	MADURAI Jn. - Replacement of damaged jackarch roof by RCC roof and remodelling the VRR building (id : 1935/08-09), CE/OL.	21.18
17	MADURAI Jn. - Reconstruction of RPF escort room and dormitory to augment space for the widening of PF No. 1 (id : 1680/08-09) CE/OL.	32.08
18	MADURAI Jn. - Construction of Airconditioned passenger waiting hall at PF 1 (id : 1704/08-09) CE/OL	30.05
19	TUTICORIN - Remodelling of station building and provision of greeneries in circulating area (id : 1335/06-07/CE/OL ..	49.50
20	VIRUDHUNAGAR - Remodelling of station building and provision of greeneries in circulating area (id : 1336/06-07/CE/OL	49.75

Passenger Amenity Works in Progress during 2011-12

Sl. No.	Work	Cost in ₹ Lakhs
1	ARAKKONAM - JOLARPETTAI Section - 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
2	CHENGALPATTU - Expansion of booking office and new PRS building (id : 1898/07-08) CE/OL	49.17
3	CHENNAI - ARAKKONAM Section - Provision of FOB at Annanur (halt section) (OT 2004-05) CE/OL	28.72
4	CHENNAI - ARAKKONAM Section - Provision of FOB at Egattur (halt section) (OT 2004-05) CE/OL.. ..	31.22
5	CHENNAI - GUDUR Section - Provision of IRS type Platform shelter at Attipattu, Pudunagar (2 x 32 m) and Arambakkam stations (2 Nos.) (OT/2004-05) CE/OL	15.69
6	CHENNAI - GUDUR Section - Raising and paving of PF & 7 5, 6 & 7 at BBQ and provision of shelter and paving of up and down PFs at VOC nagar (id : 1899/07-08), CE/OL.	48.45
7	CHENNAI BEACH - Improvements to circulating area and concourse (id : 1900/07-08) CE/OL	27.41
8	CHENNAI BEACH - Provision of PRS building (id : 1675/08-09) CE/OL	48.68
9	CHENNAI CENTRAL - Developing green building concept covering energy conservation aspects - Phase I. (id : 1669/08-09) CE/OL.	49.46
10	CHENNAI CENTRAL - Developing green building concept covering civil engineering aspects - Phase I. (id : 1670/08-09) CE/OL.	28.46
11	CHENNAI EGMORE - Developing green building concept covering energy conservation aspects - Phase I. (id : 1671/08-09).	49.66

Sl. No.	Work	Cost in ₹ Lakhs
12	CHENNAI EGMORE - Developing green building concept covering civil engineering aspects - CE/OL.	32.43
13	CHENNAI MRTS Section - Improvements to water pipelines, PF granite benches and circulation MCPK, MTCN & MLHS & MTMY (id : 1909/07-08) CE/OL.	44.58
14	CHENNAI PARK STATION - Provision of FOB (id : 1270/06-07), CE/OL	47.24
15	GUINDY - Extension of PF to accommodate 24 coaches (id : OT 4/06-07, CE/OL)	49.95
16	KATPADI - Platform Shelter at island platform 2 & 3 at JTJ end and paving of platform by year 06-07) CE/OL.	29.56
17	KATPADI - Provision of PF shelter on island PF 4 & 5 (3 x 16 m.) 10 mtr. wide - 2 Nos. (1911/06-07) CE/OL	38.94
18	KORATTUR - Extension of FOB across quadruple lines (id : 1067/02-03) CE/OL	23.76
19	MAMBALAM - Improvement as model station (id : 1098LAW/01-02) CE/OL	55.89
20	MUKUNDARAYAPURAM - Provision of PF shelter on UP loop line and DOWN loop line (id : 1908/06-07) CE/OL	37.13
21	TAMBARAM - Provision of escalators (2 Nos.) (id : 1678/08-09) CE/OL	160.00
22	ARAKKONAM - JOLARPETTAI Section - Widening of PF No. 1, CC paving of PF No. 1, 2 & 3 of CC lines on FOB and ramp at Katpadi (id : 1497/09-10) CE/OL.	74.00
23	CHENNAI CENTRAL - Replacement of existing AC sheets with galvalume sheets including gutters for platform Nos. 1, 2 & 2A (id : 1498/09-10) CE/OL.	98.85
24	CHENNAI BEACH - VILLUPURAM Section - Replacement of existing damaged AC sheets with of Pallavaram, Chennai Fort, Mambalam and Tambaram stations (id : 1500/09-10), CE/OL.	95.00
25	MOORE MARKET COMPLEX - Provision of CC TV cameras (id : 1970/07-08), CE/OL	49.47
26	CHENNAI DIVISION - Provision of purified drinking water to stations through water treatment plant (id : 435/PB 02-03), CE/OL.	30.00
27	CHENNAI CENTRAL & MOORE MARKET COMPLEX - Replacements of existing broken AC colour sheets in high roof of old concourse, with galvalume sheets in PF No. 6 to 9 & 14 and to 9 (id : 1459/10-11) CE/OL.	187.70
28	KARUR Jn. - Strengthening of column and beams by epoxy treatment in station building, improvement of drainage arrangements and construction of boundary wall (id : 1685/08-09) CE/OL.	45.60
29	KARUR Jn. -Retiring room, Provision of PF shelter for 32 m. each on PF 1 & 2 (id : 975/03-04) CE/OL.	21.33
30	SALEM DIVISION - Provision of purified drinking water to stations through water treatment plant (id : 1993/07-08) CE/OL.	20.00
31	BOMMIDI - Extension of PF No. 1 for 295 m and PF No. 2 & 3 (island) for 150 m. to accommodate slewing of track, relocation of OHE mast for length of 650 m. (id : 1507/09-10) CE/OL.	246.26
32	COIMBATORE Jn. - Improvement to circulating area at Eastern side and Western side (id 1507/09-10) CE/OL	172.72
33	ADN/ED Sub Dn. - (i) Extension of PF length of ANU, CV, TPM, VZ (4 stations) & (ii) SGE - level (id : 1469/10-11) CE/OL.	179.20
34	BUDDIREDDIPATTI - Proposed extension of PF 1 & 2 for 24 coach length and provision of PF (id : 1470/10-11) CE/OL.	190.20
35	SALEM Dn. -Provision of True colour LED display Board over SA Division (id : 1471/10-11) CE/OL.	192.70
36	COIMBATORE - Proposed PF shelter - 5 bay length at PF No. 5 & 6 (CBF end) and light weight CBF, PLMD, SHI, IGU, SUU, SNO, VNJ at 6 per station (id : 1472/10-11) CE/OL.	192.75
37	TIRUPPUR - Proposed construction of second class waiting hall in PF No. 2 (near RUB second entry circulating area and proposed improvements to circulating area (balance work) 10 units (Type-II) (id : 1).	162.80
38	CALICUT - Over head tank 90,000 litres capacity and provision of one open well 6.1 m. dia x 10 m. deep (id : 1281/06-07) CE/OL.	34.21
39	MANGALORE and KANKANADI - Augmentation of water supply in carriage watering area and water treatment plant (id : 1292/06-07), CE/OL.	81.29
40	PARAPPANANGADI - New Booking Office with 4 counters for installation of UTS with computerised PRS in future (id : 1929/07-08), CE/OL.	50.83
41	PALAKKAD DIVISION - Upgradation of passenger amenities in SRR - NIL area (except AAM) (id : 1509/09-10), CE/OL..	99.00
42	PALAKKAD DIVISION - Upgradation of passenger amenity works at BDJ & TLY (id : 1512/09-10) CE/OL	99.00
43	PALAKKAD DIVISION - Provision of new station building and other passenger amenities at AADAR (id : 1514/09-10), CE/OL	99.00
44	PALAKKAD DIVISION - Provision of second FOB and PF watering arrangements at MAQ (id : 1509/09-10), CE/OL	94.00
45	MANGALORE CENTRAL - Construction of booking office with 4 counters, Development of parking at second entry (id : 1516/09-10), CE/OL.	74.60
46	CHARAVATTUR & QUILANDI- Proposed roof covering of FOB (id : 1518/09-10), CE/OL	13.45
47	TIRUR - Upgradation of passenger amenities and facilities (id : 1522/09-10), CE/OL	99.00

Passenger Amenity Works in Progress during 2011-12—contd.

Sl. No.	Work	Cost in ₹ Lakhs
48	TIRUR STATION - Provision of Coach Guidance system on platform No. 1 & 2 (id : 1523/09-10) CSTE	67.75
49	KOZHICODE - Provision of Passenger Lift at PF Nos. 1, 2/3 and 4 - 3 Nos. (id : OT/2/09-10) CEE	84.95
50	PALAKKAD DIVISION - Raising and extension of platform for 12 coach length at Vadanamkurushshi, Vallapuzha, Cherukara, Tuvvur and Vaniyambalam (5 stations) (id : 1479/10-11) CE/OL.	161.00
51	ERNAKULAM TOWN & KAYANKULAM - Model stations - Provision of additional waiting rooms (id : 1950/07-08) CE/OL..	49.00
52	NANGUNERI & ARALVAYMOLI - Provision of waiting rooms (id : 1698/08-09) CE/OL	49.00
53	TIRUVANANTHAPURAM Coaching Depot - Provision of carriage watering arrangement between road No. 12 & 13 (id : 1699/08-09), CE/OL.	36.50
54	TRICHUR & NAGERCOIL - Model stations - Provision of additional waiting-rooms (id : 1957/07-08) CE/OL	49.00
55	TRIVANDRUM DIVISION - Emergency lights for all PF at NCJ, TVC, QLN, KTYM, ERS, ERN, AWY & TCR (id : 1959/07-08), CEE.	49.00
56	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
57	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
58	TRIVANDRUM DIVISION - Extension of platforms to hold 24 bogies (3 stations) (id : 1963/07-08), CE/OL	200.00
59	ERNAKULAM Jn. - Raising of PF 4/5 from medium to high level (id : 1527/09-10), CE/OL	77.50
60	CHENGANNUR - Pilgrim complex. Developing low lying area near RPF station (id : 1530/09-10), CE/OL	95.00
61	GURUVAYUR - Water supply arrangement, replacement of defective pipe lines (id : 1531/09-10), CE/OL	56.00
62	KANNIYAKUMARI & NAGERCOIL Jn. - Surfacing of Platform PF 1 CAPE and PF 2 & 3 at NCJ with vacuum dewatered concrete to facilitate mechanized cleaning (id : 1535/09-10), CE/OL.	92.50
63	ALUVA - Provision of Shelter 64 m. each in PF 1, 2 & 3 (id : 1536/09-10), CE/OL	74.00
64	ERNAKULAM Jn. - Provision of Shelter in PF 4 & 5 (id : 1537/09-10), CE/OL	74.00
65	TRIPUNITTURA - Provision of Shelter in 64 m. each in PF 1 and PF 2 (id : 1538/09-10), CE/OL	74.00
66	KARUNAGAPALLI - Provision of Shelter in PF 1, 2 (id : 1539/09-10), CE/OL	36.00
67	VALLIYUR & KULITTURAI - Waiting rooms (id : 1540/09-10), CE/OL	83.00
68	TRIVANDRUM DIVISION - Provision of FOB at KCVL connecting PFs, main entry & second entry (id : 1542/09-10) CN/TVC	248.00
69	TRIVANDRUM Dn. - Provision of recommended level of PF shelter at STKT, MVLK & CGY (id : 1494/10-11), CE/OL ..	162.00
70	TRIVANDRUM Dn. - Improvements to approach roads and circulating area at MVLK & OCR, PRND & STKT (id : 1496/10-11), CE/OL.	115.00
71	ARIYALUR - Raising of PF (Island) and alteration to existing station building (id : OT 3/06-07), CE/OL.. ..	47.42
72	THANJAVUR - Extension of FOB to PF No. 1 (id : 1975/07-08), CE/OL.. ..	40.00
73	THANJAVUR - Proposed CC apron at platform No. 3 (id : 1703/08-09), CE/OL	60.00
74	THANJAVUR & VILLUPURAM - Upgradation as model model stations (id : 1977/07-08), CE/OL	100.00
75	TIRUCHCHIRAPPALLI - Improvements to parcel offices at KMU, PDY, MV & TVR (id : 1979/07-08), CE/OL	49.64
76	TIRUCHCHIRAPPALLI 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 (id : 1702).	49.30
77	TIRUVERUMBUR - Provision of FOB connecting station building and BG platform (id : 1087/05-06), CE/OL	29.50
78	VILLUPURAM - Rebuilding of station building, waiting hall, platform shelter & improvements to circulating area (id : 448/PB 03-04), CAO/CN.	194.94
79	VILLUPURAM Jn. - Improvements to passenger amenities under touch and feel items (id : 1985/07-08), CCM/PS ..	48.76
80	VIRUDHACHALAM - Upgradation and beautification of passenger amenities (id : 1325/06-07), CE/OL	49.90
81	VIRUDHACHALAM Jn. - Provision of high level PF for PF No. 2 (id : 1986/07-08), CE/OL	48.34
82	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

Sl. No.	Work	Cost in ₹ Lakhs
83	TIRUCHCHIRAPPALLI DIVISION - Provision of Toilet facilities at various stations between Ma section and improvements to circulating area of KTM station (id : 1546/09-10) CE/OL.	31.50
84	KOVILPATTI STATION - Provision of passenger shelter for 6 bays in PF No. 1 and 6 bays CE/OL.	40.25
85	MADURAI Jn. - Proposed relocation of Cloak room and information centre to augment addi 08-09), CE/OL.	20.60
86	RAJAPALAYAM - Provision of FOB (id : 1333/06-07, CE/OL	45.00
87	TIRUNELVELI Jn. - Provision of passenger shelter for 6 bays in PF No. 2 & 3 (id : 1709/08-1	43.48
88	TUTICORIN STATION - Provision of passenger shelter for 6 bays in PF No. 2 & 3 (1710/08-1	42.33
89	TIRUNELVELI Jn. - Provision of vacuum dewatered concrete flooring on PF No. 3 (id : 1067	75.00
90	RAMESWARAM - Provision of new second class waiting hall and VRR-cum-dining hall (id	80.00
91	MADURAI DIVISION - SVKS, TN, CVP, KDU, TDN & TSI - Pro. of 6 bays of Passenger shel 09-10), CE/OL.	87.96
92	MADURAI DIVISION - TPJ-DG-MDU Section-Provision of low level shelters 4 bays each at & TMP and 5 bays each at stations ABI, KQN, VDP & SER (id : 1551/09-10), CE/OL.	96.90
93	MADURAI DIVISION -TPJ - MNM Section - Provision of light weight shelters 4 bays each : CE/OL.	76.24
94	RAMESWARAM - Construction of ticket examiner's rest room with 12 beds in cubicle pa (id : 1554/09-10), CE/OL.	25.00
95	RAMESWARAM - Pro. of passenger shelter for 6 bays each on PF Nos. 2 & 3 and 4 & 5 (i	134.54
96	MADURAI Jn. - Provision of 5 bays each PF shelters on PF No. 1 at TEN & PF Nos. 1, 2, 7, improvements and provision of water taps in sheltered area (id : 1499/10-11), CE/OL.	144.94
97	MADURAI Jn. - Provision of approach road to the new parcel office and additional parking	152.00
98	BASIN BRIDGE - Augmentation of water supply arrangement by installation of recycling pla	350.00
99	COIMBATORE - 2nd subway from main entry side connecting platforms 1 to 4..	375.00
100	AMBUR & JOLARPETTAI - Upgradation as model stations	577.01
101	SULURPETA- GUMMIDIPUNDI & TIRUVALLUR - ARAKKONAM - Extension of platforms for	333.18
102	PALAKKAD & TRIVANDRUM DIVISIONS - Raising of rail & medium level platforms to h category - 24 stations).	1620.00
103	CHENNAI & SALEM DIVISIONS - Raising of rail & medium level platforms to high gory - 13 stations).	900.00
104	SOUTHERN RAILWAY - Platform shelters (2 Nos. - B-category stations & 23 Nos. - D-ca	341.97
105	PALAKKAD & TRIVANDRUM DIVISIONS - Foot over bridges (10 Nos.) (D-category station	331.00
106	CHENNAI DIVISION - Elimination of deficiencies in minimum essential passenger amenities	280.25
107	THIRUVANANTHAPURAM DIVISION - Raising/extension of platforms (17 stations)	1431.00
108	ANVARDIKANPETTAI - Extension Up & Down high level platforms to hold 24 bogies (id : 1	62.00
109	EKAMBARAKUPPAM - Extension of medium level platform on up line side & raising of pl line side and extension of RCC retaining wall in between up & down lines (id : 1503/09-10	77.00
110	CHENNAI EGMORE - Improvements to platform surfaces with vacuum dewatered concr broken AC sheets with galvalume sheets in station building incl. rearrangement of tro office platform and compound.	151.00
111	CHENNAI DIVISION - Provision of elevated level booking office at MKK, GDY & STM, Im MSF, MSC, MKK, MBM, SP, GDY, STM, MN & TBMs, Provision of pay and use toilet at MSF CE/OL.	188.00
112	PALAKKAD Dn.-Provision of coach guidance system on PF No. 4 at PGT, on PF No. 1 & 2 CE/OL.	181.31
113	MADURAI JN. - Escalators at platform Nos. 1, 2, 3 & 8 (3 Nos.)	452.04
114	SALEM Jn. - Provision of CC apron on line of platform No. 2 for a length of 540 m (id : 168	60.00
115	SALEM Dn. - Proposed widening and improvements to circulating area (id : 1474/10-11), C	143.00
116	CALICUT - Provision of CC apron on line of PF No. 3 for a length of 540 m. (id : 1526/09-11	65.00
117	MADURAI JN. - Proposed CC apron on line of platform line at PF No. 3 (id : 1553/09-10), C	81.61
118	MADURAI DIVISION - Provision of purified drinking water in all modern stations in MDU Di (MDU, DG, VPT, KKDI, RMM, TEN, TN, PLNI, TS I(id : 1555/09-10), CE/OL.	40.00
119	SOUTHERN RAILWAY - Escalators at major stations (4 Nos. (2 stations)	280.00
120	CHENNAI DIVISION - MAS-GDR section - Provision of 150 mm. dia. borewell and RCC KVP, RCC OHT of 50000 litres capacity one each at PON & GPD, PVC tank of 10000 litr pumping arrangements (id : 1501/09-10), CE/OL.	55.00

11. Expenditure incurred on Passenger and Other Railway Users' amenities 2011-2012

(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 Computerisation	Other Plan heads like New Lines, Doubling etc.	Total
A. Basic Amenities—				
1. Proper booking arrangements..	44	0	0	44
2. Waiting Hall ..	261	0	0	261
3. Benches ..	12	0	0	12
4. Suitable arrangements for Electric Lighting ..	6	0	0	6
5. Drinking water supply arrangements at stations ..	217	0	0	217
5(a) Drinking water supply arrangements in the trains ..	260	0	0	260
6. Platform with well maintained surface (Rail level platforms at flag stations)	251	0	0	251
7. Latrines ..	120	0	0	120
8. Shady trees ..	78	0	0	78
B. Additional facilities—				
1. Urinals ..	0	0	0	0
2. Platform Covers ..	963	0	0	963
3. Bath facilities ..	87	0	0	87
4. Water Coolers ..	0	0	0	0
5. Foot Over Bridges or Subways ..	516	0	0	516
6. Washable Aprons ..	198	0	0	198
7. Retiring Rooms & Rail Yatri Niwas ..	106	0	0	106
8. Refreshment Rooms, Base kitchens and Trolleys/Stalls for Catering & Vending.	0	0	0	0
9. Improved lighting and fans on platforms ..	146	0	0	146
10. Enquiry Offices, Train indicator Boards ..	68	0	0	68
11. Reservation Offices—Computerised Reservation. ..	100	830	0	930
12. Improvements to circulating area ..	707	0	0	707
13. Car, Tonga, Cycle stands ..	49	0	0	49
14. C. C., TV ..	19	0	0	19
15. Cushioning of Second Class Berths ..	0	0	0	0
16. Renovation/Remodelling of station buildings ..	189	0	0	189
17. Carriage Watering ..	15	0	0	15
18. Book Stalls ..	0	0	0	0
19. Raising, lengthening, widening and resurfacing of platforms ..	804	0	0	804
20. Public address system ..	115	0	0	115
21. Exhibition of Time-Table sheets on Glass Fronted Frames..	1	0	0	1
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.	255	0	0	255
23. Improved latrines ..	0	0	0	0
24. Miscellaneous improvements to existing amenities, viz., provision of seats, hedges, etc.,	274	0	0	274
C. Other Railway Users' amenities (for Goods sheds and Parcel Offices)—				
1. Arrangements for drinking water including water coolers, water trollies etc.	0	0	0	0
2. Waiting accommodation ..	0	0	0	0
3. Refreshment Rooms & Vendors Stalls ..	0	0	0	0
4. Latrines ..	0	0	0	0
5. Miscellaneous arrangements like provision of seats, hedges & shady trees	7	0	0	7
6. Lighting arrangements and provision of fans ..	106	0	0	106
7. Rest shelters for licensed porters ..	0	0	0	0
Grand Total ..	5974	830	0	6804

Statement of Actual Expenditure under Amenities for Staff for the year 2011-2012

Sl. No.	Description	(Figure		ousands of ₹)	
		Gross		lit	Net
1	New Hospitals, Dispensaries, additions and improvements to existing ones	49,168		0	49,168
2	New Schools, additions, alterations, improvements & additions to Existing ones.	0		0	0
3	New Institutions, rest houses, sports grounds, reading rooms, Improvements & additions to existing ones.	5,645		0	5,645
4	Provision and improvement of health and welfare works & maternity centres.	2,043		0	2,043
5	Cooking arrangements for workshops canteens & rest houses for workmen.	155		0	155
6	Provision and improvements of sanitation, water supply, road lighting and marketing facilities in Railway colonies.	49,392		0	49,392
7	Improvements Alterations to Existing quarters whatever type	13,044		0	13,044
8	Others Works	11,569		0	11,569
9	Total Col. 1 to 8 (Staff Amenities)	1,31,016		0	1,31,016
10	Provision for Officers' Quarters	34,393		0	34,393
11	Quarters for Class III Staff	79,822		250	79,572
12	Quarters for Class IV Staff	13,783		0	13,783
13	Total Col. 10 to 12 (Staff Quarters)	1,27,998		250	1,27,748
14	Total Col. 9 +13	2,59,014		250	2,58,764
15	Medical Expenses — J 200	15,82,491		0	15,82,491
16	Health and welfare services — J 300	2,74,981		0	2,74,981
17	Education — J 100.	5,31,437		0	5,31,437
18	Canteen and other staff amenities — J 400	48,484		0	48,484
19	Staff Training — K 500	2,29,713		0	2,29,713
20	Total Col. 15 to 19	26,67,106		0	26,67,106
21	Grand Total Col. 14 + 20	29,26,120		250	29,25,870

12. Improvements carried out in the existing lower class carriages during 2011-12 : Nil

13. Passenger Traffic 2011-12

No. of stations functioning for Passenger traffic :

No. of City/Town Booking Offices	2
No. of City/Town Booking Agencies	Nil
(1) Nagore Town Booking Office	
(2) Thirunallaru Town Booking Office	
No. of Out Agencies	13
No. of Street Collection and Delivery services (Pertains to Dy. CCM/ FM)	

No. of stations opened/

No. of City/Town Booking Offices	
No. of City/Town Booking Agencies	
No. of Out- Agencies	
No. of Street Collection and Delivery services	

No. of Halt as on 31-03

(* includes Halts presently (i) Train halts converted

for Passenger traffic :

	Opened/	Closed
Offices	Nil	
Agencies	Nil	
Delivery services	Nil	
(Pertains to Dy. CCM/ FM)		
	*153	
as a result of gauge conversion)		
flag/Block stations	Nil	

- (ii) Stations Opened/Closed for Passenger traffic Nil
- (iii) Block stations downgraded into flag/train halts Nil
- (iv) Train halts closed for passenger traffic 12
 Alwarkurichi, Edapalayam, Kalthuruty
 Karaikurichi, Kizha Ambur, Madathukulam, MDU Divn.
 Kalthuruty Halt, Edapalayam, Gauge
 Viravanallur, Nagamalai West conversion
 Vadapalangi
 Pandiapuram-Unmanned PGT Divn.
 Vadakannigapuram Gauge
 conversion
- (v) Train halts opened for passenger traffic Nil
- (vi) Train halts re-opened for passenger traffic Nil
 Madamangalam, Pennathur & Onnupuram in VM-KPD
 section
- (vii) Flag stations down graded into train halt Nil
 Parangipettai from flag to Block after Gauge VM-MV
 Conversion Section
 Varakalpattu and Capper Quarry from Flag VM-KPD
 to Halt after Gauge Conversion Section

14. The converted BG Line opened for Passenger/ Goods traffic during 2011-12 :—

Section	Division	Date of Opening	Opened for
Nidamangalam (NMJ) Mannargudi (MQ) New BG Line	TPJ	27-9-2011	Opened for Passenger Traffic. The chargeable distance has been notified.
Nagore (NCR) Karaikkal (KIK) BG Section	TPJ	17-12-2011	Opened for Passenger Traffic. The chargeable distance has been notified.

15. Section/Line closed for Passenger traffic—

-Nil-

16. Station opened / re-opened for Goods Traffic During 2011-12

Name of Station	Division	Date of Open	Opened for
Kayankulam (KYJ) (BG)	TVC	26-04-2011	Opened for full rake handling for Goods Traffic for both inward and outward in local and through booking.
Palakkad Jn. (PGT) (BG)	PGT	20-05-2011	Opened for full rake NMG/VPU rakes for automobile handling for Traffic for both inward and outward in local and through booking.
Pilamedu (PLMD) (BG)	SA	19-09-2011	Opened for full rake handling for all commodities for both inward and outward in local and through booking.
Kanchipuram (CJ) (BG)	MAS	03-02-2012	Opened for full rake handling for Goods Traffic for both inward and outward in local and through booking.

17. Station closed for Goods Traffic During 2011-12

Name of Station	Division	Date of Closing	Closed for
Mettupalayam (MTP) (BG)	SA	08-04-2011	Closed for Train load Goods Traffic. Kept open for Wagon load traffic only.
Anangur (ANU) (BG)	SA	18-05-2011	Closed for all description of Goods traffic for both inward and outward in local and through booking.
Uttukuli (UKL) (BG)	SA	18-05-2011	Closed for all description of Goods traffic for both inward and outward in local and through booking.
Pettaivayalai (PLI) (BG)	SA	18-05-2011	Closed for all description of Goods traffic for both inward and outward in local and through booking.
Kallagam (KLGM) (BG)	TPJ	01-02-2012	Closed for all description of Goods traffic for both inward and outward in local and through booking.

18. Siding opened for goods traffic during 2011-12 (i.e. from 01-04-2011 to 31-03-2012)

Sl. No.	Name of siding	Serving Station	Division	Type of siding and Gauge
1.	Food Corporation of India Siding.	Mavelikara	TVC	Private (BG)
2.	Udipi Power Corporation Siding.	Panamburu	PGT	-Do-
3.	Sterlite Industries India Ltd, Siding.	Milavittan	MDU	-Do-
4.	Zuari Cements Ltd., Siding.	Attipattu	MAS	-Do-
5.	India Cements Ltd., Siding.	Attipattu	MAS	-Do-
6.	Chettinad Cement Corporation Ltd., Siding.	Sillakkudi	TPJ	-Do-

II. Siding Closed for goods traffic during 2011-12 (i.e. from 01-04-2011 to 31-03-2012)

Sl. No.	Name of siding	Serving Station	Division	Type of siding and Gauge
			-Nil.-	



Date of opening	Remarks
5-2011	
5-2011	Independent booking point
0-2011	
10-2011	
10-2011	
12-2011	

Date of opening	Remarks

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 :—

2007-08	2008-09	2009-10	2010-11	2011-12
12	9	5	6	7

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 :—

2007-08	2008-09	2009-10	2010-11	2011-12
0.195	0.141	0.077	0.088	0.100

The Category-wise break-up of consequential train accidents for the past five years given below :—

Type of accidents	2007-08	2008-09	2009-10	2010-11	2011-12
Collision	0	1	1	0	1
Derailment	..	..	..	..	..
a) At stations	2	2	0	0	1
b) In mid-section.	2	1	3	3	1
LC accidents	..	..	..	..	..
a) Manned	0	0	0	0	0
b) Unmanned	6	5	1	3	4
Fire in trains	1	0	0	0	0
Miscellaneous	1	0	0	0	0
Total	12	9	5	6	7

There was a Collision in 2011-12, whereas, it was -Nil- in 2010-11 and No. of Un-Manned level crossing accidents was 4 in 2011-12 v/s-a-vis – 3 in 2010-11.

b. Indicative accidents

The number of indicative accidents during 2011-12 remains at 1 as that of 2010-11. The trend of indicative accidents with category-wise break-up for the last 5 years is given below :—

Type of accidents	2007-08	2008-09	2009-10	2010-11	2011-12
Averted collision.	1	0	0	0	0
Train passing signal at danger.	3	3	2	0	1
Breach of block rules.	1	0	0	1	0
Total	5	3	2	1	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 Part 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 2012. 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 2012 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 2011-2012, Thirty nine 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 2011-12, Twenty persons were given the "**Man of the Month**" award.
- 7) To improve the knowledge of staff, booklets, folders and pamphlets are printed and distributed to the staff. During 2011-12, thirty four safety posters, forty eight stickers, twenty six hand bills, four folders, two newsletters, five pamphlets and six safety bulletins were printed and distributed.

(D) Safety Propaganda

- + Safety propaganda such as TV, Film, public for preventing carrying inflammable board/roof top
- + Road users are displayed of safety Offices etc., outlets of Hindustan Oil Corporation and through C
- + Action is being taken to educate the importance of the Motor Vehicle Act provision through public of short films, TV networks, other areas, gather, safety street drama
- + Special effort is being made to educate road users about precautions to be taken while crossing the level crossings, mobile users
- + Thiruvananthapuram, Chennai Division perform street messages to
- + Advertisement is being carried in daily news papers, public not to carry inflammable fires inside the coaches, avoid safety at unmanned level crossing, etc.

With a view to bring all aspects and also to improve safety, an Anti 25th February 2012 to the highlights of the S

- + Safety S Institute, safety r eminent
- + Competi Essay, P presenta held duri
- + Prizes fo and an colorful

At divisional level campaigns are organized for Railway safety. These include street dramas, folk dances, etc., as a means to take the message to the masses. Trade fairs and other organisations get direct contact with the

is conducted through media and Newspaper appealing to public at level crossings, not to travel at foot

is conducted through inter-action and posters at Village Panchayat distributing hand outs at retail Petroleum Corporation, Indian Bharat Petroleum Corporation of cinema slides.

to educate the road users on strictly following Motor Vehicle Act provision through public of short films, TV networks, other areas, gather, safety street drama

being made to educate road users about precautions to be taken while crossing the level crossings, mobile users

am, Tiruchchirappalli and have a group of staff trained to perform street messages to

carried in daily news papers, public not to carry inflammable fires inside the coaches, avoid safety at unmanned level crossing,

to focus various safety related all levels of staff in the effort to improve safety, an Anti 25th February 2012 to the highlights of the S

ers at Zonal Railway Training Institute, Tiruchchirappalli focusing on various safety issues were presented by my officers.

on Safety related topics such as designing, Quiz, Drama, Paper and Ex-tempore speech were held during the period.

winners of various competitions and a shield were presented at a trophy function.

ous functions and propaganda to highlight the importance of safety include street dramas, folk dances, etc., as a means to take the message to the masses. Trade fairs and other organisations get direct contact with the

(E) Other Safety Activities

(i) A Safety calendar for 2012 was printed and distributed during January 2012. 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 2011-12, 189 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 2012.

I. (a) Accidents Involving Casualties during 2011-12
(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.	On 13th September 2011, MEMU No.66017 (Chennai Beach-Vellore Passr.) collided in rear of 56007 Arakkonam-Kalpadi Passenger which was being restarted after stopping at semi automatic Gate Stop Signal No. 744 of LC No. 35 between Melpakkam and Chitteri stations in Arakkonam.	3	0	0	8	23	66	0	0	0

(b) Details of Accidents Involving Casualties During 2011-12 Due to Negligence of Road Users—

Sl. No.	Date of Accidents	Brief Details	Killed	Injured	
				Grievous	Minor
1	04-04-11	A TATA Indica Car No. TN 31 AX 6363 suddenly trespassed and dashed against the Train No. LQ 10(BOBRNL) Goods at Unmanned LC No. 46 at km. 41/300-400 between Neyveli and Uttagal-Mangalam block section.	3	1	0
2	06-08-11	One Mini Lorry No. KLO 4D/9154 suddenly trespassed and dashed against the Train No. 16604 Trivandrum-Mangalore Up Maveli Express at Unmanned LC No. 45 at km. 121/800-700 between Karunagappalli and Ochira stations.	5	1	0
3	21-09-11	A Maruti Swift Car (TN 59AJ 5019) suddenly trespassed and dashed against the Train No. OMS Spl. at Unmanned LC No. 325 at km. 453/400-500 between Ambathurai and Kodaikkanal Road block stations.	2	0	0
4	20-01-12	One Milk Van (NO. 43A 2875) suddenly trespassed and dashed against the Train No. Ey.BCN at Unmanned LC No. 86 at km. 87/200-300 between Pukravari and Mukasa parur stations.	3	0	0

II. Accidents Statistics – Details

No. of train accidents classified under principal heads which occurred on this Railway (excluding Workshops) during the year 2010-11 and 2011-12 :—

Sl. No.	Particulars	2010-11	2011-12
1	a. Collision involving passenger trains	0	1
	b. Collision involving other than passenger trains.	0	0
2	a. Derailments involving passenger trains.	2	2
	b. Derailments involving other than passenger trains except train wrecking.	1	0
3	Derailments due to train wrecking	0	0
4	Trains running into road traffic at LCs	3	4
5	Fire in trains	0	0
	TOTAL ITEMS (1 to 5)	6	7
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	3	0
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)	3	0
	GRAND TOTAL (1 to 9)	6	7
10	No. of persons killed : No. of Railway Servants in workshops	0	4
11	Accidents on the Railway		
	a. Passengers	0	8
	b. Railway Staff	0	3
	c. Other than Passengers & Railway Staff.	10	13
	Total other than Workshop	10	24
12	No. of person injured No. of Railway servants in workshops	2	100
13	Accidents on Railways		
	a. Passengers	0	89
	b. Railway Staff	0	..
	c. Otherthan Passengers & Railway Staff	11	2
	Total otherthan workshop	23	91

III. (a) Comparative Figures of Consequential Train Accidents attributed to failure of Human Element for the Last 5 years.

Sl. No.	Category	2007-08	2008-09	2009-10	2010-11	2011-12
1	Collision	0	1	0	0	1
2	Derailment :					
	(a) At stations	1	0	0	0	0
	(b) In mid-section	0	0	1	0	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	1	1	1	0	1

(b) Comparative Figures of Train Accidents attributed to failure of Human Element for the last 5 years.

Sl. No.	Category	2007-08	2008-09	2009-10	2010-11	2011-12
1	Averted Collision	1	0	0	0	0
2	Train Passing Signal at danger.	3	3	2	0	1
3	Breach of Block	1	0	0	1	0
	Total	5	3	2	1	1

Indicative Train Accidents attributed to failure of Human Element for the last 5 years.

2007-08	2008-09	2009-10	2010-11	2011-12
1	0	0	0	0
3	3	2	0	1
1	0	0	1	0
5	3	2	1	1

IV. Train Accidents per million train kilometres on Southern Railway Since 1994-95

Year	Collision	Derailments	Level crossing accidents	Fire in trains	Misc	Total
1994-95	3	31	27	1	..	62
1995-96	3	35	14	..	..	52
1996-97	..	29	11	..	..	40
1997-98	2	53	10	1	..	66
1998-99	1	50	7	1	..	59
1999-00	3	37	7	1	..	48
2000-01	2	33	7	1	..	43
2001-02	2	23	10	..	..	35
2002-03	1	17	8	..	..	26
2003-04	..	16	6	2	..	24
2004-05	..	2	3	1	2	8
2005-06	..	3	4	1	1	9
2006-07	..	4	11	..	1	16
2007-08	..	4	6	1	1	12
2008-09	1	3	5	0	0	9
2009-10	1	3	1	0	0	5
2010-11	0	3	3	0	0	6
2011-12	1	2	4	0	0	7

11-12

Million Train kms.	Incidence of accidents per million train kms.
60.22	1.029
63.27	0.822
64.20	0.623
65.73	1.004
64.83	0.910
67.07	0.715
68.39	0.628
68.80	0.508
69.75	0.372
59.46	0.403
58.63	0.136
59.79	0.150
60.50	0.240
61.62	0.195
63.63	0.141
65.03	0.077
67.34	0.088
69.68	0.100

XV. SECURITY ARRANGEMENTS

I. 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.

II. CRIME ON SOUTHERN RAILWAY:

In Southern Railway, crime against passengers and Railway Property is well under control.

III. CRIME AGAINST PASSENGERS:

(a) Pro-active measures taken by RPF to contain the passenger related offences:

- To strengthen the security infrastructure for the safety and security of the passengers, Integrated Security System is being implemented in 14 important stations of this Railway at a cost of ₹ 28.87 crores and it is under process.
- On an average, 237 Mail/Express, Passenger and Sub-urban trains are escorted by 461 RPF staff on daily basis. A part from this, 101 trains Mail/Express and Passenger trains are escorted by 152 GRP staff on daily basis. Almost all the night trains are escorted by RPF/GRP personnel.
- Analysis of crime against passengers is under taken periodically, identified the sections/trains affected and corrective measures are taken to contain the passenger related offences.
- RPF staff on access control duties are advised to attend the trains during the course of their halts at stations to prevent the entry of unauthorized persons in trains.
- RPF Crime Prevention and Detection Squads and special teams are formed over this Railway to keep surveillance on the criminals to prevent crime in trains.
- Drives against gents travelling in ladies coaches were conducted and the defaulters apprehended are prosecuted u/s 162 RA. During the year 2011-12, 860 defaulters were apprehended and prosecuted with the realization of fine ₹ 1,70,665/-
- Drive against unauthorised hawking/ vending were conducted and the defaulters apprehended are prosecuted u/s 144 RA. During the year 2011-12, 19,316 defaulters were apprehended and prosecuted with the realization of fine ₹ 52,52,443/-
- Joint combing operations are carried out in trains by RPF, GRP and Commercial branch to mop up criminals, unauthorized persons, etc.
- At an average 50 supervisory officials of RPF are conducting surprise checks in trains to alert the train escort staff during night hours.
- As it was found that the safety of women passengers is affected due to drunkenness of co-passengers in trains, special drives are organized against drunken travelling in trains. During the year 2012, 259 defaulters were apprehended and dealt them under the relevant provisions of Railways Act.
- High profile presence of RPF and GRP at major station platforms to instill a sense of fear among anti-social elements and sense of confidence among travelling public.
- Staff on train escort duty are travelling in the coaches adjacent to the ladies coach to provide security to the lady passengers. The escorts are advised to attend the ladies compartment during the course of its halts in the mid section/stations.
- CCTVs are provided at major Railway stations viz., Chennai Central, Chennai Egmore, Mambalam, Chennai Beach, Tambaram, Katpadi, Arakkonam, Tirunelveli, Trivandrum Central, Quilon, Ernakulam South and Thrissur Railway stations, to keep watch over the movements of anti-social elements and suspected persons in station premises.

- RPF Dog Squads consisting of sniffer dogs are functioning in important stations of this Railway and these dogs have been frequently utilized for anti-sabotage checks.
- Frequent announcements are made through PA systems and loudspeakers cautioning the passengers to be more careful while on journey.
- Video coverage of general coaches are done at important and crowded stations to create moral deterrence among the anti-social elements.
- Small albums containing the photographs of criminals are provided to the RPF staff on train escort duties.
- Special pamphlets containing various safe travel tips are distributed to passengers on platforms / trains.
- RPF Mitra Yojana meetings are conducted regularly to cull out persons in combating crime against passengers.
- Stickers containing the "RPF/GRP Help Line" telephone number, Control Room number 044-25359261, Divisional HQrs. Chennai 2460454, Madurai 0452-2308042, Salem 0427-2331809, Trivandrum 2553636. GRP/Tamilnadu 099625 00500 and GRP/Kerala 0984-2553636 are pasted in trains and conspicuous places at stations.

High Level Co-ordination Meeting :

- Regular co-ordination meetings are held with GRP/Local Police to exchange intelligence to combat the incident of crime over Southern Railway. A High-Level Co-ordination meeting was held on 20/4/12 at Southern Railway HQrs. and the issues related to passenger security were discussed with the chiefs of GRP.

(b) Innovative measures :

- A joint operation scheme by RPF and GRP with name 'Protect the Traveller' in which special teams containing RPF and GRP staff are kept on the calls to RPF and GRP Help lines.
- Passenger Awareness programs are conducted outside Railway stations, institutions, cinema theatres, etc.
- Chanting of passenger Awareness slogans through a pre-recorded device round the clock at important stations.
- As part of passenger awareness programme, on 8/7/2011 an interaction with the public in FM Radio (Hello FM 106.4 frequency) was broadcasted wherein the Rail security and the various passenger security measures adopted by RPF in trains was highlighted.
- Safe travel tips "Keep Your Valuables in bag/box and lock it" was sent to about 30 lakhs Airtel customers by RPF/Southern Railway.
- In order to gauge the level of security system on Railways for travelling public, a feedback study was undertaken from sub-urban stations by a private agency to have first hand information on passengers' perception.

(c) Awareness Campaign :

In order to create awareness against the drugging offences and other crimes among 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 and preventive measures against theft of their baggages and drugging menace.

Divisional HQrs. and six other stations are frequently utilized for anti-sabotage checks.

Passengers are cautioned the passengers to be more careful while on journey.

Video coverage of general coaches are done at important and crowded stations to create moral deterrence among the anti-social elements.

Small albums containing the photographs of criminals are provided to the RPF staff on train escort duties.

Special pamphlets containing various safe travel tips are distributed to passengers on platforms / trains.

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(d) Passenger Awareness Programmes Conducted :

Sl. Nos.	Programme	2010-10	2011-12
1	Skit/Forum Drama conducted	86	78
2	Meeting with Coolies	367	364
3	Feedback Forms obtained	11783	11975
4	Pamphlets Issued	111178	97454
5	Awareness programme out side the Railway premises	152	186
6	Stickers pasted	14313	20284
7	FM Channel	12	6
8	Slides projected in cinema hall	128	86
9	Video coverage of GS coaches	118	213
10	Assistance from NGOs/Scouts etc., utilized	8	13
11	Decoy Check conducted	589	528

(e) Crime against passengers – Comparison of Crime :

	Category	2010-11		2011-12	
		Registered	Detected	Registered	Detected
Murder		1	1	0	0
Dacoity		1	1	2	2
Robbery		75	46	37	30
Theft		542	268	490	272
Snatching		39	13	64	28
Total		658	329	593	332

- Crime against passengers decreased by 10% during the year 2011-12.
- Detection % during the year 2010 – 11 is 50%.
- Detection % during the year 2011 – 12 is 56%.

(f) Action taken by RPF against crime on passengers:

During the year 2011 – 12, a total of 60 criminals (Drugging criminals – 4, Pick pocketers – 4, Baggage lifters – 25, Chain snatchers – 18 & others - 9) involved in passenger's related crime, were arrested by RPF and handed over to concerned GRP for registration of cases.

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.

(g) Passenger Facilitation by RPF :

Sl.No.	Details	20
1	Criminals involved in theft of passenger belongings and other crime against passengers, apprehended by RPF	
2	Assistance given to injured passengers	
3	Handing over of runaway children	
4	Retrieval of Abandoned baggages	
5	Seizure of illicit liquor, Heroin/ Ganja etc. and other contraband goods on the railways	₹ 51.4 21 inst the a cri

	2011-12
	60
	312
	510
	961
ns in with of 8 s	₹ 10.20 Crores in 18 instances with the arrest of 13 criminals

IV. CRIME AGAINST RAILWAY PROPERTY :

A number of preventive measures have been taken by RPF/Southern Railway Property and to bring down the incidents of theft/pilferage. As a result of Railway Property has been kept under control. Figures of incidents of theft of Railway Property and Railway Materials are given below:

(a) Theft of Railway Property :**(i) Booked Consignment – Localized cases :**

Year	No. of cases		Value of property		Remarks			
	Rep	Det	Stolen	Recovered	Arrest Made	Expunged	Staff Liability	Tfd. to other
2010-11	18	8	111763	56387	8 OS	2/12850	7/20996	—
2011-12	15	7	407197	294697	19 OS	4/41200	1/-	—

OS – Outsider

Undetected fixed	Under Enquiry Rlys.
1/21530	—
—	3/71300

(i) Railway Material – Localized cases :

Year	No. of cases reported	No. of cases registered	No. of cases detected	Property stolen	Property recovered	Of
2010-11	235	235	204	3149008	2992692	34
2011-12	203	203	161	952071	748196	21

OS – Outsider & RE – Railway Employee

Other disposal (SLF, MOF, Exp.)	Pending enquiry
31/156316	—
23/154920	19/48955

b) Performance under Railway Property (Unlawful Possession) Act, 1960

This act is an effective means to control the crime against Railway Property suspects, criminals and successful raids on receivers and criminals by RPF persons booking of number of cases with recovery of lakhs of rupees of stolen properties under this Act.

The surveillance kept over of this Railway, resulted in arrest of several criminals

The result achieved under this Act for the year 2010-11 & 2011-12 is appended below in the table:

Year	No. of cases registered	Value of stolen property recovered	Arrest made	
			OS	RE
2010-11	542	₹ 34,48,891/-	680	09
2011-12	536	₹ 23,12,257/-	694	14

- There is slight decrease of 6 cases and recovery value decreased by 11.36 Lakhs when compared to the previous financial year 2010-11 which is due to registration of 2 Special Report cases valued ₹ 21.49 Lakhs for the theft of Signal & Telecommunication Copper cable drums and detected under RP(UP) Act during the financial year 2010-11. **Notable detection of the year:**
- A nine member organized RTT criminal gang of Mughalsarai origin committing theft of high value consignment cardamom and readymade goods from running trains over Indian Railways was arrested by RPF / Madurai with the recovery of stolen cardamom valued ₹ 2,75,000/-.
- RPF/ Madurai unearthed a 6 member criminal gang committing theft of OHE wire from ongoing railway electrification with the recovery of stolen OHE wire valued ₹ 2,20,000/-.

V. 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 2010-11 & 2011-12 is appended below in the table :

Year	No. of cases booked	Fine amount realized
2010-11	110412	₹ 2,50,87,520/-
2011-12	99366	₹ 2,45,17,124/-

- There is decrease by 11046 cases and fine to the tune of ₹ 5.7 Lakhs when compared to the previous financial year 2010-11 which is mainly due to number of Railway Magistrate's post lying vacant over Southern Railway and hence RA cases could not be prosecuted.

a) Results achieved under Important Railways Act sections during the year 2011-12:

RA Section	No. of cases registered	Fine amount realized in ₹	Remarks
141 - Unauthorized Alarm Chain pulling	546	289395	-
142 - Transfer of Rail tickets	707	358050	-
143 - Unauthorized carrying on of procuring and selling rail tickets (Touts) enquiry / Pending trial in Courts.	121	211000	77 cases are under
144 - Unauthorized hawking / vending	19316	5252443	-
154 - Endangering safety of persons by rash or negligent Act.	570	715400	* An amount of ₹ 19,33,919/- was realized towards cost of damage to the LC Gate components
160 - Opening/ Breaking a level crossing gate.	25	15000	21 cases are under trial in Courts.
161 - Negligently crossing unmanned level crossing gate.	287	142050	-
162 - Gents travelling in ladies compartment.	860	170665	-
167 - Smoking.	6610	788720	-
174 - Obstructing of running trains.	172	165950	45 cases are under trial in Courts.

VI. RPF ASSISTANCE TO TICKET CHECKING STAFF:

RPF is providing necessary assistance to commercial branch in ticket details of ticketless travellers apprehended and fine amount realized for the year

Year	RPF staff deployed	No. of ticketless apprehended
2010 - 11	11549	505872
2011 - 12	9665	501897

VII. RPF DOG SQUAD:

i) Southern Railway RPF is the pioneer of forming RPF Dog Squad over the Railway Dog Squad was formed in the year 1958 on the pattern of Madras State Police. At present, Southern Railway has 12 Kennels with a total strength of 32 dogs comprising Labrador, Doberman and German Shepard. 50 percent of the existing strength of RPF dogs comprise explosive.

ii) **Zonal RPF Dog Training Centre** is functioning at Podanur with all equipment for imparting basic training to sniffer and tracker dogs of Indian Railways. This is a first and merits as a significant achievement towards modernization of the Force. So far, 37 Tracker – 37) of various Zonal Railways were trained in this training centre.

VIII. MAIN EVENTS DURING THE YEAR 2011 - 12 :

- ❖ Interactive session with judicial officer was arranged on 20/4/11 to enlighten cases by RPF under RP(UP) Act and Railways Act and the functional difference.
- ❖ An interactive session called "Bridges" was organized to improve the co-ordination between RPF & Other sister departments of Railways.
- ❖ An innovative awareness to the passengers chanting passenger awareness device round the clock at important Railway stations.
- ❖ HOD (Security) Level Railway Week Celebration was held on 3-5-11 in which 157 RPF officers/staff were awarded with a cash reward of ₹ 1,000/- each and a certificate of merit for meritorious service.
- ❖ Career Plan Programme for the wards of RPF and other Railway employees was organized on 7-5-11 for their benefit.
- ❖ First Responder Course training for RPF was organized for system improvement.
- ❖ "International Level Crossing Awareness Day" was observed on 9-6-11 as a 7 days long special drive targeting safety at unmanned level crossings in all Divisions over this period.
- ❖ Release of passenger awareness on video clipping has been done from 16/7/11.
- ❖ Observance of International Day against "Drug abuse and illegal traffic" was organized on 26/6/12 in co-ordination with GRP and Health Unit staff.
- ❖ Organized a programme for encouraging wards of RPF personnel for their achievements in academic carrier with the participation of DRM/Chennai.
- ❖ An interactive "phone in programme" through FM Radio was held on 17/7/11 as part of passenger awareness programme.
- ❖ As part of passenger awareness, SMS as "keep your valuables in bag and lock it with a safety chain to prevent theft" was sent to about to 30 Lakhs Airtel customers on 16/7/11 and 17/7/11.

ng. The following are the details of ticketless travellers apprehended and fine amount realized for the year -11 & 2011-12 :—

Year	Amount of fine realized
2010 - 11	₹ 16.00 Crores
2011 - 12	₹ 15.744 Crores

Indian Railways. The Southern Railway Dog Squad was formed in the year 1958 on the pattern of Madras State Police. At present, Southern Railway has 12 Kennels with a total strength of 32 dogs comprising Labrador, Doberman and German Shepard. 50 percent of the existing strength of RPF dogs comprise explosive.

s and infrastructure facility for the first time in its kind on Indian Railways. So far, 37 Tracker – 37) of various Zonal Railways were trained in this training centre.

n about the registration of cases between RPF & Police.

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i 57 RPF officers/staff were awarded with a cash reward of ₹ 1,000/- each and a certificate of merit for meritorious service.

was organized on 7-5-11 for their benefit.

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/11.

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/7/11 as part of passenger awareness programme.

x and lock it with a safety chain to prevent theft" was sent to about to 30 Lakhs Airtel customers on 16/7/11 and 17/7/11.

- ❖ Website for "lost items" in Railways was inaugurated on 29/7/11 for the benefit of passengers to retrieve their lost items.
- ❖ "Job fair" for the wards of RPF/Railway employees was organized on 11/8/11 with the participation of 13 multi-national companies and 222 candidates.
- ❖ Meeting of judicial offices and RPF officers was organized on 9/8/11 to resolve various issues.
- ❖ Seminar on safety and security was organized on 27/8/11 with the participation of RPF staff, DRM/Trichy and IG of Police / Central Zone.
- ❖ Hon'ble Railway Minister's meeting with Hon'ble Chief Minister of Kerala with full board was held on 18/9/11 & 19/9/11 at Trivandrum to review the ongoing works including rail safety.
- ❖ Security sensitization programme was organized on 7/10/11 with the participation of RPF, Railway employees and licensed coolie porters to improve the security preparedness on the Railways.
- ❖ Parliamentary Standing Committee on Railways conducted study tour on 11/11/11 at Trivandrum to examine the passenger amenities provided at the Railway stations.
- ❖ As part of passenger awareness programme, a mass rally (Walkathon) was organized on 11.12.11 with the participation of DRM/Chennai, Tamil film Stars and College/School students.
- ❖ As per the direction of Member Traffic/Railway Board, special safety drive at man / unmanned LCs was organized from 17/11/11 to 16/12/11 in co-ordination with Civil authorities, safety branch and GRP in order to create awareness among the road users to avoid loss of human lives and damage to railway property.
- ❖ Workshop on handling of modern gadgets was conducted on 21/12/11 with the participation of technical DSP/Tamilnadu Police Commando School, Chennai for the benefit of RPF staff.
- ❖ Elementary fire fighting training for RPF was organized during the month Feb-12 and March-12 to combat any fire incident.

IX. PARADES CONDUCTED :

- ❖ Independence Day Parade was conducted at HQrs. Office/S.Rly. on 15/8/11.
- ❖ 26th RPF Raising Day Parade was conducted on 21/9/11.
- ❖ Republic Day Parade was conducted at HQrs. Office/S.Rly. on 26/1/12.
- ❖ RPF contingent took part in the Republic Day Parade conducted at Marina Beach, Chennai and Trivandrum on 26/1/12.

X. ACHIEVEMENTS MADE DURING THE YEAR 2011-12:

(a) IN CRIME DETECTION:

- A nine member organized RTT criminal gang of Mughalsarai origin committing theft of high value consignment cardamom and readymade goods from running trains over Indian Railways was arrested by RPF / Madurai with the recovery of stolen cardamom valued ₹ 2,75,000/-.
- Due to sustained efforts and deep analysis of drugging cases, RPF/Salem division was able to zero in on the **4 drugging bandits of Bihar origin** on 16/9/11 at Tiruppur. They were arrested u/s 12 of RPF Act and handed over to GRP/Podanur who inturn registered a case in Crime No.929/11 u/s 328 & 379 IPC and remanded to Judicial custody. Subsequently this case was transferred to GRP/Nellore, resulting in registration of a case in Cr.No.91/11 u/s 328 & 379 IPC and connected to the earlier cases registered by them for drugging of passengers.

- RPF/ Madurai unearthed a 6 member criminal gang committing theft of electrification with the recovery of stolen OHE wire valued ₹ 2,20,000/
- Stern action against stone pelting on the running trains was taken by for the offenders apprehended for indulging in stone pelting on running train provisions of Railways Act.
- Special drives were organized against touts during festival season like Deepavali, Christmas, Pongal, etc., besides regular drives.
- Convened a meeting with trans-genders and Social Welfare Department initiative to dissuade the trans-genders to desist from begging in trains passengers. In the meeting, the trans-genders have been advised to approach them by the Social Welfare Department of Govt. of Tamilnadu, for their rehabilitation.
- Special drives against drunken travelling in trains were organized in all divisions in order to create moral fear among drunkards and to contain crime against women passengers. During the drive period, 300 offenders were apprehended and dealt under relevant provisions of Railways Act. While a fine of ₹ 54,520/- was realized from 161 offenders, cases against offenders are under trial in Courts in Trivandrum division.

b) In system improvement:

- Interactive session for RPF Officers with judicial Officers was organized about registration of cases by RPF under RP(UP) Act and Railways Act.
- **Combing operations** were organized in all divisions in co-ordination with Police in order to keep the trains and railway premises free from anti-social elements.
- **Security mock drills** were conducted to gauge the level of preparedness of RPF including various security agencies.

Anti-sabotage check competition – 2011-12

- 5th Inter Railway RPF Anti-sabotage check competition – 2011 was held in Chennai in which Southern Railway bagged Winner's Shield amidst competition.

c) In passenger awareness:

- Chanting of passenger awareness slogans through a pre-recorded device at Railway stations of Chennai Division.
- Sr.DSC/Chennai had an interactive "Phone-in Programme" with the public. Sr.DSC/Chennai explained about the role of RPF on the rail security and the various measures adopted by RPF in trains etc.
- SMS to 30 lakhs Airtel customers was sent by RPF / Southern Railway as **"Keep Your Valuables in bag/box and lock it with a safety lock"** as part of passenger awareness on safe travel tips.
- A website (ID.No.sr.indianrailways.gov.in) has been created to convey details of baggages and other belongings lost by passengers during their journey in train / railway premises retrieved by RPF to facilitate the passengers to get back their lost items.
- Mass rally (walkathon) on safety and security of Rail passengers was organized involving DRM / Police, SS, RPF and other Railway staff. Chennai, Tamil film stars, College / School students volunteers of NCC, Officers, all numbering about 500 persons.

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organized involving DRM / SS, RPF and other Railway

d) In safety hazards:

- Awareness campaigns against stone pelting on running trains were organized nearby the affected sections cautioning such act would be liable for prosecution under Railways Act and advised the public to desist from such activities.
- Special safety drive against carrying of fire crackers and inflammable articles in trains to prevent fire was organized in all divisions during Deepavali season with innovative awareness programmes. Offenders were dealt deterrently under the provisions of Railways Act.
- Special safety drives at manned / unmanned LCs were organized in all divisions in co-ordination with civil authorities, safety branch and GRP in order to create awareness among the road users and to avoid loss of human lives and damage to Railway property.

XI. DRIVE AGAINST UNAUTHORIZED ALARM CHAIN PULLING AFFECTING PUNCTUALITY OF TRAINS:

During the year 2011-12, 1987 instances of Alarm Chain Pulling were reported. Of which, 1145 instances were justified as due to commercial/operational/mechanical/electrical reasons and in 842 unauthorized instances, 694 defaulters were nabbed and 546 offenders were prosecuted u/s 141 RA, 1989 and realized fine of ₹ 2,89,395/- from them. Remaining 148 defaulters were fined through EFT with the realization of fine of ₹ 1,66,610/-.

XII. LC GATE ACCIDENTS:

During the year 2011-12, 595 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 & 160 RA and a sum of ₹ 7,30,400/- was realised as fine. This apart ₹ 19,33,919/- was also realised from the owners of the vehicles towards the cost of damage to the L.C. gate components, etc.

XIII. 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 2011-12, 172 defaulters were prosecuted u/s 174 Railways Act and a fine amount of ₹ 1,65,950/- was realised from them.

XIV. SPORTS :

Southern Railway RPF Sports Association affiliated with Southern Railway Sports Association in terms of the letter issued by Hon'y. Secretary/SRSA & Dy.Com/CHG/MAS vide No.SRSA/RPF/2010 dt.24/9/2010 have achieved the goal in All India RPF Sports activities during the year 2011-2012 as under.

Sports event:-

1. Hockey	:	Winner
2. Kabaddi	:	Winner
3. Anti-sabotage check	:	Winner
4. Football	:	Third place
5. Shooting	:	8 – Gold Medals 4 – Silver medals 2 – Bronze

XV. BOMB THREAT :

During the year, 08 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.

XVI. SPECIAL BANDOBUST TO VVIPs/VIPs :

During the year, on 42 occasions during the travel/visit of VVIPs/VIPs like Hon'ble Chief Minister, Union Ministers, MOSRs, Parliamentary Committee, etc., on the Railways, RPF/Southern Railway provided elaborate bandobust arrangements in co-ordination with GRP/Local Police.

XVII. MERITORIOUS SERVICE BY THE OFFICERS OF RPF/SOUTHERN R

Shri S. Balasubramanian, Staff Officer to CSC/Southern Railway and S were awarded with the coveted President Police Medal and Indian Police Medal service, on the eve of Independence Day – 2012.

XVIII. EVICTION :

During the year 2011-12, on 06 occasions RPF/S.Rly. rendered all a necessary bandobust arrangements in co-ordination with Local Police/GRP to t encroachments from the Railway land.

XIX WELFARE MEASURES:

- Handicraft centre with sufficient number of sewing machines and mem wards is functioning at Tambaram and Ayanavaram.
- Job Fair was conducted at Chennai on 11/8/2011, in which 222 wards attended. Of which, 114 got selected for suitable job.
- Various welfare measures for RPF staff like blood donation camps, Ey were organized by all divisions.
- Various seminars like Stress Management, attitudinal changes on g organized to sensitize RPF staff.
- 250 wards of Security Branch staff who are pursuing Degree course ₹ 2,500/- each and 7 wards who are pursuing Diploma courses were gr each out of CSBF.
- One Gymnasium created out of "Staff Benefit Fund" during 2010, is fur
- RPF Barracks & Hostel in MAS division and other barracks in division
- 2 wards of Security Branch staff who are differently abled were given a assistance from SBF for 08 cases has been considered and granted.
- Smt. S. Mohana, W/o. Late P. G. Sasidharan, Hd. Cons/AVD has been ₹ 10 Lakhs by GM/S.Rly as per letter No.X/P.721/Ex-Lump dt.28/4/ family pension in lieu of family pension at ₹ 7332/- + Relief p.m. in term Pen 318 dt. 01/8/2011

XX RSKN

S.No.	Type of Payment	No. of case
1	Ex-gratia lumpsum	10
2	Settlement	17
3	VSK	4

XXI TRAINING

The RPF Training Centre, Trichy is only the training centre for the Railway and caters to the need of ICF and S.W.Rly. also. The normal cap trainees at any time of the day. The following staff of different ranks from Const year 2011-12 of various courses :—

1. RPF/TC/KG/TPJ	-	3123
2. JR/RPF Academy/LKO	-	20 IPFs

AY:

imoolam, HC/TC/KG/TPJ ctively for their meritorious

ince including providing of ineering branch in evicting

ip strength of 25 to 30 RPF

'F/Railway Employees had

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granted with scholarship of with Scholarship of ₹ 2000/-

ng in Chennai Division.

ided with water purifiers.

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ed with ex-gratia lumpsum of and granted extra-ordinary board's letter No.2011/Sec(E)/

Amount ₹
6,90,000
1,02,000
1,10,000

ity Department on Southern of the Training Centre is 300 o IPFs were trainee during the

XXII GRANT OF MONEY REWARD

Sl.No.	Details	Amount ₹
1	Sanctioned by Railway Board	78500
2	Sanctioned by GM/AGM & ADGM/S.Rly.	173000
3	Sanctioned by CSC/Dy.CSC & SO to CSC	218500
4	Sanctioned by Sr.DSC/DSCs	181000
Total		651000

XXIII SABOTAGE:

2009-10	-	1 case
2010-11	-	2 cases
2011-12	-	5 cases

XXIV CONCLUSION:

REF/Southern Railway is striving had to ensure that the passengers travel with full sense of security in its jurisdiction.



**SIXTY TWO YEARS
OF
SUMMARY**

Details	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	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	145.11	10.14	172.60	181.30	189.40	211.20
Total Investment (Rs. in crores)	..	..	..	130.00	139.65	152.57	169.14	1.14	209.60	224.62	239.00	262.85
Route Kilometres Electrified	..	..	..	..	..	..	..	1.19	29.19	29.19	29.19	29.19
36.08												
Total	9,656.02	9,661.41	9,695.32	9,750.40	9,841.97	9,757.15	9,817.10	1.53	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	1.39	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	9,989.10	1.03	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	1,252	286	1,308	1,305	1,315	1,337
Rolling Stock—												
Locomotives												
Steam	1,410	1,412	1,430	1,395	1,420	1,419	1,515	580	1,614	1,662	1,644	1,714
Diesel	..	..	..	..	..	..	..	..	..	..	..	..
Electric	4	4	4	4	4	4	4	4	4	4	4	4
Passenger carriages	3,020	3,041	3,066	3,219	3,260	3,227	3,414	425	3,457	3,657	3,724	3,840
Coaching stock	72	72	72	96	96	96	96	96	96	96	96	96
Electric Multiple Unit Coaches	..	..	..	..	..	..	..	..	..	..	..	..
Rail cars	9	9	8	8	18	18	18	29	30	30	30	30
Other coaching vehicles	997	1,011	1,022	1,033	1,108	1,101	1,111	185	1,212	1,217	1,212	1,381
Wagons	24,074	24,429	26,839	28,080	28,895	29,054	31,115	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	158.4	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	22.87	5.22	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	1,467	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	39.42	19.55	39.49	39.04	38.85	39.36
EMU	..	..	..	..	..	..	..	..	..	..	..	..
MEMU	..	..	..	..	..	..	..	..	..	..	..	..
DEMU	..	..	..	..	..	..	..	..	..	..	..	..
Goods and proportion of mixed	18.64	18.56	18.48	17.96	18.60	19.77	21.11	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	609	609	616	618	631	644
EMU	..	..	..	..	..	..	..	..	..	..	..	..
MEMU	..	..	..	..	..	..	..	..	..	..	..	..
DEMU	..	..	..	..	..	..	..	..	..	..	..	..
Wagon kilometres	617	617	618	616	644	686	762	762	789	873	888	925
Volume of Traffic—												
Passenger Traffic—												
No. of passengers originating (in millions)	272	226	216	205	211	217	217	223	228	237	252	256
Passenger kilometres (in millions)	12,151	11,742	10,887	10,032	11,073	10,696	11,052	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	19.84	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	48.9	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	1.79	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	10.2	10.2	10.3	10.7	11.8	12.1
Total traffic	11.9	11.3	10.9	11.1	11.4	12.4	14.6	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	6,636	6,636	6,929	7,386	7,755	8,411
Total Traffic	5,313	5,243	5,433	5,530	5,879	6,519	7,509	7,509	7,715	8,309	8,733	9,371
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	27.1	27.1	29.1	31.9	34.0	35.1
Average lead (in kilometres) (Revenue)	343.6	363.7	384.5	389.0	396.1	405.1	385.5	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	4.08	4.08	4.19	4.32	4.38	4.21
Quantity of fuel consumed by locomotives—												
Coal (in thousand tonnes)	1,378	1,436	1,461	1,461	1,562	1,664	1,964	1,964	2,001	2,127	2,187	2,341
Diesel oil (in kilometres)	..	..	..	..	..	..	403	403	689	822	888	92
Stores purchases (in crores of Rs.)—												
Indigenous	9.22	7.89	8.79	7.27	8.94	9.29	20.88	20.88	12.17	11.64	11.04	21.91
Total	12.05	11.93	13.13	11.13	16.57	13.35	29.17	29.17	23.22	18.50	20.56	23.71
Operating revenue and expenditure (in crores of Rs.)—												
Revenue—Gross receipts	44.25	46.82	N. A.	N. A.	43.25	47.93	52.53	52.53	55.03	58.68	62.82	68.5
Working expenses including depreciation etc. and miscellaneous expenses.	34.54	35.03	N. A.	N. A.	39.19	42.86	52.23	52.23	51.31	53.58	56.43	60.4
Net revenue receipts	9.71	11.79	N. A.	N. A.	4.06	5.07	0.30	0.30	3.72	5.10	6.39	8.0
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	0.19	0.19	2.15	2.81	3.37	3.8
Operating ratio (per cent)	78.65	74.35	N. A.	N. A.	80.53	90.15	96.34	96.34	92.77	89.05	88.77	85.4
Dividend to General Revenues	4.54	4.57	N. A.	N. A.	4.83	4.99	5.97	5.97	6.65	7.00	7.31	8.2
Payments to States in lieu of tax on Passenger fares.	..	..	..	..	..	..	..	..	..	..	..	2.1
Surplus (+)/Deficit (—)	(+) 5.17	(+) 7.12	N. A.	N. A.	(—) 0.77	(+) 0.08	(—) 5.07	(—) 5.07	(—) 2.93	(—) 1.99	(—) 0.92	(—) 2.23

1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	Details
235.60	271.25	312.85	348.57	286.44	295.07	299.50	310.45	322.91	338.23	363.18	Assets—(As on 31st March)
296.34	342.11	391.26	433.99	349.98	362.58	370.93	387.40	404.11	424.01	452.90	Capital-at-charge (Rs. in crores)
36.08	36.08	163.13	163.13	163.13	166.44	166.44	166.44	166.44	166.44	166.44	Total investment (Rs. in crores)
9,985.58	10,067.08	0,153.14	10,200.98	7,216.45	7,283.85	7,444.98	7,444.98	7,444.98	7,445.62	7,452.32	Route Kilometres Electrified
65.27	65.27	217.35	217.35	217.35	220.66	220.66	220.66	220.66	220.66	220.66	Total
10,662.29	10,922.04	11,081.72	11,209.34	7,761.82	7,875.60	8,090.39	8,090.39	8,118.63	8,119.27	8,218.86	Running track Kilometres Electrified
1,346	1,362	1,368	1,373	1,022	1,023	1,031	1,029	1,025	1,021	1,016	Total
1,783	1,827	1,780	1,786	1,228	1,218	1,193	1,143	1,128	1,105	999	Number of Stations.
..	26	69	98	114	128	161	210	223	244	242	Rolling Stock—
4	4	4	22	20	20	20	20	20	20	20	Steam
..	..	..	..	..	..	..	..	..	..	..	Diesel
3,865	3,801	3,984	4,111	4,187	3,526	3,596	3,600	3,608	3,604	3,753	Electric
96	96	96	96	96	152	172	172	172	174	174	Passenger carriages ..
30	30	30	27	27	15	15	15	18	18	18	Electric Multiple Unit
1,424	1,398	1,391	1,442	1,492	1,282	1,249	1,213	1,123	1,075	1,065	Coaches ..
38,331	40,750	41,987	44,795	47,083	47,489	35,141	34,591	34,197	33,916	34,120	Rail cars ..
..	..	..	..	..	..	..	..	..	..	..	Other coaching vehicles
..	..	..	..	..	..	..	..	..	..	..	Wagons
168.6	173.6	176.7	177.8	135.2	134.5	133.5	132.0	133.0	132.0	134.0	Staff—
32.92	34.99	39.50	43.70	41.60	39.60	42.80	45.40	49.36	51.36	52.58	No. of employees (in 1000s)
1,959	2,020	2,243	2,468	2,715	2,958	3,214	3,440	3,719	3,898	3,951	Cost of staff (in crores of Rs.)
..	..	..	..	..	..	..	..	..	..	..	Average cost per employee (in Rs.)
..	..	..	..	..	..	..	..	..	..	..	For the year—
39.95	40.45	41.63	44.24	40.64	35.03	35.04	35.57	36.24	36.80	34.38	Transportation Out-put—Train-kilometres excluding Departmental (in millions)—
..	..	..	..	..	..	..	..	..	..	..	Passenger and proportion of mixed
..	..	..	..	..	..	..	..	..	..	..	EMU
23.82	25.78	24.38	25.52	20.66	16.35	17.51	18.02	17.81	18.80	16.89	MEMU
..	..	..	..	..	..	..	..	..	..	..	DEMU
654	663	679	743	673	574	563	605	635	647	627	Goods and proportion of mixed
..	..	..	..	..	..	..	..	..	..	..	Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—
..	..	..	..	..	..	..	..	..	..	..	Vehicle kilometres
..	..	..	..	..	..	..	..	..	..	..	EMU
934	1,006	948	1,053	870	692	774	816	828	865	804	MEMU
..	..	..	..	..	..	..	..	..	..	..	DEMU
251	260	269	283	276	237	207	222	237	257	258	Wagon kilometres
11,848	12,239	12,578	13,461	13,158	11,185	9,476	9,701	10,417	10,980	11,259	Volume of Traffic—
26.87	28.93	30.27	34.04	31.5	29.1	27.2	28.2	30.6	33.1	34.8	Passenger Traffic—
46.9	46.8	46.3	47.2	47.4	46.8	45.5	43.5	43.6	42.1	43.3	No. of passengers originating (in millions)
2.26	2.36	2.41	2.53	2.39	2.60	2.87	2.91	2.94	3.02	3.09	Passenger kilometres (in millions)
..	..	..	..	..	..	..	..	..	..	..	Passenger earnings (in crores of Rs.)
..	..	..	..	..	..	..	..	..	..	..	Average lead (in kilometres)
..	..	..	..	..	..	..	..	..	..	..	Average rate per passenger kilometres (in Paise)
12.8	13.8	14.4	16.0	14.6	12.3	12.1	11.8	12.2	13.0	12.5	Goods Traffic—
17.1	17.3	18.5	16.4	13.5	13.2	13.2	13.1	14.3	13.6	13.6	Tonnes originating (in millions)—
8,823	9,504	9,282	10,475	9,437	7,234	7,595	7,707	8,085	8,675	8,486	Revenue earning Traffic
9,758	10,417	10,155	11,326	10,088	7,820	8,294	8,250	8,797	9,428	9,179	Net tonne kilometres (in millions)—
38.5	43.9	45.0	51.2	48.0	38.7	41.8	42.7	47.4	52.7	52.0	Revenue earning traffic
422.0	429.8	431.0	447.0	442.0	419.0	430.0	422.0	422.0	429.0	483.0	Total traffic
4.37	4.62	4.85	4.89	5.08	5.34	5.51	5.54	5.87	6.08	6.15	Earnings from goods carried excluding and wharfage demurrage charges (in crores of Rs.)
2,476	2,666	2,563	2,508	2,027	1,600	1,603	1,629	1,574	1,584	1,388	Average lead (in kilometres) (Revenue)
723	3,251	21,544	39,923	54,279	65,794	79,050	94,658	111,146	120,766	130,482	Average rate per tonne kilometre (in paise)
24.25	37.02	42.20	39.29	2.70	20.23	20.65	32.07	35.43	29.96	37.04	Quantity of fuel consumed by locomotives—
27.55	44.04	49.84	43.03	6.47	24.38	27.31	33.59	40.24	32.57	45.38	Coal (in thousand tonnes)
73.39	81.98	84.06	94.89	73.02	76.62	78.96	81.44	90.12	100.23	100.30	Diesel oil (in kilometres)
66.16	71.38	77.89	84.42	69.65	75.90	79.83	84.20	90.23	95.97	99.05	Stores purchases (in crores of Rs.)—
7.23	10.60	6.17	10.47	3.37	0.72	(-) 0.87	(-) 2.76	(-) 0.11	4.26	1.25	Indigenous
3.06	3.76	2.00	3.00	1.17	0.24	(-) 0.29	(-) 0.88	(-) 0.04	1.26	0.34	Total
86.62	82.94	90.00	86.96	92.15	98.70	99.69	101.54	98.44	94.75	97.89	Operating revenue and expenditure (in crores of Rs.)—
9.13	11.32	13.22	15.02	14.54	15.16	15.11	15.61	16.44	15.91	16.93	Revenue—Gross receipts
1.99	1.95	1.94	..	..	..	..	..	..	..	..	Working expenses including depreciation etc. and miscellaneous expenses.
(-) 3.89	(-) 2.67	(-) 8.95	(-) 6.49	(-) 11.17	(-) 14.44	(-) 15.98	(-) 18.37	(-) 16.55	(-) 11.85	(-) 15.68	Net revenue receipts
..	..	..	..	..	..	..	..	..	..	..	Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.
..	..	..	..	..	..	..	..	..	..	..	Operating ratio (percent)
..	..	..	..	..	..	..	..	..	..	..	Dividend to General Revenues
..	..	..	..	..	..	..	..	..	..	..	Payments to States in lieu of tax on Passenger fares.
..	..	..	..	..	..	..	..	..	..	..	Surplus (+)/Deficit (-)

SOUTHERN RAILWAY

Details	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	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	190.88	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	190.88	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	165.26	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	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	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	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	876	868	861	862	852
Rolling Stock—														
Locomotives	943	934	911	916	799	792	761	702	592	370	364	358	336	229
Steam	244	267	278	278	191	205	213	228	266	286	308	316	317	325
Diesel	20	20	20	20	20	20	20	20	20	20	20	27	41	51
Electric	3,777	3,856	3,820	3,727	3,899	3,880	3,879	3,834	3,727	3,756	3,766	3,811	3,812	3,793
Coaching stock	171	171	171	171	171	192	272	348	358	353	353	371	371	371
Passenger carriages	18	18	18	13	11	11	14	11	7	7	7	10	10	10
Electric Multiple Unit	1,066	1,049	1,029	988	943	928	902	893	845	817	809	793	768	746
Coaches	34,173	33,863	35,104	30,029	31,723	31,062	31,005	30,032	29,588	27,547	265,803	26,325	25,885	24,886
Rail cars	135.0	136.0	137.7	138.6	124.9	129.5	135.2	136.3	137.6	140.9	139.7	141.3	142.2	142.5
Other coaching vehicles	57.96	73.75	88.40	92.30	91.42	87.99	110.75	128.46	147.84	208.67	241.01	264.11	325.55	402.1
Wagons	4,314	5,450	6,419	6,668	6,528	7,613	8,443	9,515	10,784	14,885	17,342	18,686	23,021	28,216
Staff—														
No. of employees (in 1000s)	135.0	136.0	137.7	138.6	124.9	129.5	135.2	136.3	137.6	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	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	14,885	17,342	18,686	23,021	28,216
For the year—														
Transportation Out-put—Train-kilometres excluding Departmental (in millions)—	30.06	25.20	33.82	35.54	35.59	32.25	32.43	33.72	33.23	37.35	33.38	38.02	38.57	39.35
Passenger and proportion of mixed	..	..	..	..	..	..	..	..	..	..	..	..	..	..
EMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..
MEMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..
DEMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goods and proportion of mixed	16.28	16.24	17.40	18.40	16.15	13.03	12.48	..	13.49	13.48	14.12	14.99	15.65	15.58
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—	579	529	642	697	679	631	642	661	689	743	763	769	800	856
Vehicle kilometres	..	..	..	..	..	..	..	..	..	..	..	..	..	..
EMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..
MEMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..
DEMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wagon kilometres	805	802	865	913	808	655	646	628	741	766	817	817	945	962
Volume of Traffic—														
Passenger Traffic—														
No. of passengers originating (in millions)	253	218	267	298	310	331	302	333	341	276	279	283	296	307
Passenger kilometres (in millions)	11,415	10,700	13,217	14,420	15,448	16,278	16,135	18,128	19,291	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	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	65.8	69.7	71.8	8.63	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	5.0	6.76	7.09	7.76	8.63	8.90
Goods Traffic—														
Tonnes originating (in millions)—	12.9	13.0	13.4	14.2	13.0	11.0	10.9	10.9	12	11.4	13.2	133.9	13.9	14.2
Revenue earning Traffic	13.7	13.8	14.6	15.5	14.0	11.9	11.8	11.8	13	12.7	14.4	15.2	15.3	15.9
Total Traffic	25.66	24.80	27.82	29.74	26.00	22.90	22.80	22.80	25.23	24.15	27.60	28.11	29.26	30.15
Net tonne kilometres (in millions)—	8,726	9,052	9,643	10,237	9,101	7,996	7,761	7,686	9,511	10,104	11,041	11,829	11,724	11,638
Revenue earning traffic	9,324	9,664	10,323	10,855	9,647	8,386	8,190	8,067	9,811	10,367	11,327	12,129	11,944	11,932
Total traffic	55.1	67.7	84.7	90.78	83.94	72.46	79.90	84.92	133	187.89	208.66	240.01	257.36	291.50
Earnings from goods carried excluding wharfrage and demurrage charges (in crores of Rs.)	433.0	434.0	437.0	428.0	374.0	350.0	342.0	333.0	356	406	390	377	362	341
Average lead (in kilometres) (Revenue)	6.31	7.47	8.52	8.87	8.70	8.64	9.76	10.53	13	18.60	18.90	20.29	21.95	25.05
Average rate per tonne kilometre (in paise)	1,128	1,023	1,214	1,200	1,120	934	892	868	6	446	426	390	340	262
Quantity of fuel consumed by locomotives—	131,524	133,660	140,010	148,840	125,039	97,747	102,627	106,091	117	129,864	138,033	144,817	144,996	153,677
Coal (in thousand tonnes)	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Diesel oil (in kilolitres)	40.0	53.75	70.45	69.15	52.40	49.78	82.14	118.33	136	148.38	162.27	179.97	204.46	230.93
Stores purchased (in crores of Rs.)	44.9	62.60	76.11	74.63	53.40	51.28	86.51	124.37	145	161.42	173.23	199.17	222.61	247.77
Indigenous	..	..	..	..	..	..	..	..	..	..	..	..	..	..
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	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	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)	(-42)	(-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)	(-6.1)	(-11.42)	(-12.40)	(-11.06)	(-13.42)	(-14.95)
Operating ratio (per cent)	102.05	106.04	105.7	109.70	112.8	113.7	120.74	123.19	11	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	3	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)	(-7)	(-116.17)	(-132.81)	(-135.12)	(-179.06)	(-210.64)

YEARS OF SUMMARY—contd.

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	Locomotives
4	4	4	4	4	4	4	4	2	..	2 *	2	2	2	2	Electric Multiple Unit coaches.
696	641	610	573	535	523	505	519	531	544	517 *	* 281	271	273	270	Rail cars
24,334	23,903	24,693	24,402	23,536	21,016	17,556	16,280	15,311	15,629	16,475	15,888	14,732	13,558	13,031	Other coaching vehicles
144.2	146.6	147.0	150.0	149.4	145.8	142.937	140.366	139.300	136.654	136.585	136.463	133.587	130.579	**126.992	Wagons
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	Staff—
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	No. of employees (in 1000s)
															Cost of staff (in crores of Rs.)
															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 depot, mental (in millions)—
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Passenger and proportion of mixed
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	EMU
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	MEMU
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	..	DEMU
															Goods and proportion of mixed
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
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	EMU
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	MEMU
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	DEMU
															Wagon kilometres
282	295	318	332	317	318	349	365	381	417	402	* 423	465	492	466	Volume of 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	Passenger Traffic—
236.31	244.93	292.84	337.12	387.68	446.96	520.96	595.75	651.28	765.76	843.20	945.15	1,057.15	1,152.47	1,344.63	No. of passengers originating (in millions)
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	Passenger kilometres (in millions)
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	Passenger earnings (in crores of Rs.)
															Average lead (in kilometres)
															Average rate per passenger, K.M.
															(in paise)
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	Goods Traffic—
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	Tonnes originating (in millions)—
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	Revenue earning 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	Total traffic
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	1,210.68	1,256.59	Net tonne K. M. (in millions)—
346	351	342	353	350	349	331	330	304	303	311	311	312	331	331	Revenue earning 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	Total traffic
212	205	177	168	128	40	15.46	2.34	2.19	2.10	2.18	2.16	2.59	1.90	1.74	Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)
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	Average lead (in kilometres)
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	Average rate per tonne kilometre (in paise)
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	Quantity of fuel consumed by locomotives—
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	Coal (in thousand tonnes)
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	Diesel oil (in kilolitres)
(-)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	Stores purchased (in crores of Rs.)—
(-) 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	Indigenous
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	Total
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	Operating revenue and expenditure (in crores of Rs.)—
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Revenue—Gross 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	Working expenses including depreciation and miscellaneous expenses.
															Net revenue receipts
															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 (-)

* Revised.

Details	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12
Assets—(As on 31st March)									
Capital-at-charge (Rs. in crores)	3,532.81	3,715.46	4,056.06	4154.34	4333.30	4647.65	5656.53	6807.94	8004.45
Total Investment (Rs. in crores)	6,854.27	7,516.98	8,433.90	9564.02	11069.18	12985.77	14871.47	16846.30	18519.30
Route Kilometres Electrified	1,501.88	1,477.02	1,729.23	1600.22	1722.90	1816.36	1975.31	2197.90	2460.15
Total ..	5,234.48	5,209.62	5,209.62	5159.85	5169.42	5145.61	5098.07	5102.12	4993.9
Running track Kilometres Electrified	2,578.01	2,595.20	2,952.73	2823.72	2957.41	3064.91	3332.08	3580.26	3875.86
Total ..	6,628.99	6,678.34	6,717.96	6686.96	6707.54	6718.68	6759.53	6789.17	6714.3
Number of Stations	601	599	597	536	545	552*	566	*597	590
Rolling Stock—									
Locomotives									
Steam ..	10	10	10	10	10	10	10	11	10
Diesel ..	421	421	426	416	393	373	393	384	404
Electric ..	243	223	241	265	279	290	306	333	371
Coaching stock									
Passenger carriages	4,283	4,518	4,699	4897	5507*	5562	5656	4964	5182
Electric Multiple Unit	607	704	618	676	669	677	614	714	719
Coaches.									
Rail cars ..	2	2	2	0	0	0	0	0	0
Other coaching vehicles	206	387	464	499	282*	281	385	454	321
Wagons	12,405	11,813	11,530	11064	11224*	10853	10548	10258	10078
Staff—									
No. of employees (in 1000s)	106.844	*106.258	*104.865	105.177	104.680	102.472	99.329	95741	94932
Cost of staff (in crores of Rs.)	1,835.52	2,055.00	2,147.91	*2250.82	2415.74	4374.27	5283.43*	*4647.59	4993.43
Average cost per employee (in Rs.)	1,71,7081	1,93,645	2,04,896	*214787	230624	430712	500882*	*485434	528450
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	45.96
EMU ..	..	..	..	..	..	..	..	8.50	8.68
MEMU ..	..	..	..	..	..	..	..	1.82	1.98
DEMU ..	..	..	..	..	..	..	..	0.61	0.56
Goods and proportion of mixed	11.71	11.58	11.93	12.23	12.25	12.69	11.97	11.53	11.84
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—									
Vehicle kilometres	1,208	1,225	1,280	1253	1345	1404	1483	1590	1690
EMU ..	..	..	..	..	..	..	..	79.30	81.43
MEMU ..	..	..	..	..	..	..	..	15.67	17.03
DEMU ..	..	..	..	..	..	..	..	4.52	3.70
Wagon kilometres	1,134	1,128	1159	1226	1285	566	528	520	542
Volume of Traffic—									
Passenger Traffic—									
No. of passengers originating (in millions)	418	460	496	565	621	687	690	734	801
Passenger kilometres (in millions)	*38,970	43,069	46,609	55092	57327	69391	70216	74664	82512
Passenger earnings (in crores of Rs.)	1,58.66	1,238.82	1,332.56	1510.77	1805.86	2094.09	2154.61	2317.69	2565.97
Average lead (in kilometres)	88.58	87.61	89.17	93.97	87.89	93.89	95.15	94.70	95.93
Average rate per passenger kilometres (in paise).	29.73	28.76	28.59	27.42	31.50	30.18	30.69	31.04	31.10
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	39.40
Total Traffic	24.24	23.19	27.27	*31.31	30.26*	34.32	36.20	35.50	39.73
Net tonne kilometres (in millions)—									
Revenue earning traffic	13,341	13,931	14,736	14968	15116	16234	16644	15748	17354
Total traffic	13,596	14,058	14,825	15008	15140	16272	16673	15775	17380
Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)	1,036.42	1,083.04	1,288.45	1471.88	1617.61	1840.80	1818.03	1869.51	2140.29
Average lead (in kilometres) (Revenue)	283	280	263	234	225	236	362	*254	270
Average rate per tonne kilometre (in paise)	77.69	77.74	87.44	98.34	107.01	267.90	109.23	118.72	123.33
Quantity of fuel consumed by locomotives—									
Coal (in thousand tonnes)	1.86	1.97	1.85	1.74	1.90	1.46	1.51	0.58	0.45
Diesel oil (in kilolitres)	1,80,078	1,79,191	1,85,225	186260	182379	1805.77	1789.53	1810.60	189251
Stores purchased (in crores of Rs.)—									
Indigenous	974.15	1,260.84	1,638.44	1790.10	1901.84	3003.37	2872.53*	2467.66	2522.92
Total	1,015.49	1,283.20	1,699.65	1800.81	2308.19	3050.84	2890.86	2469.21	2535.74
Operating revenue and expenditure (in crores of Rs.)—									
Revenue—Gross receipts	2,419.39	2,579.34	2,913.06	3330.81	3772.04*	4324.05	4456.90	4790.27	5608.08
Working expenses including depreciation etc. and miscellaneous expenses.	2,879.45	3,123.99	3,334.34	3522.94	3988.17*	5451.02	6139.53	6467.85	6896.68
Net revenue receipts	(-) 400.25	(-) 501.80	(-) 551.27	(-) 244.85	(-) 191.13	(-) 1126.97	(-) 1688.53*	-1670.60	1297.62
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	11.22
Operating ratio (per cent)	118.55	120.79	114.46	105.85	105.07	126.06	137.47	135.55	122.58
Dividend to General Revenues	248.13	231.17	249.47	264.30	294.87	311.54	357.86	321.32	369.12
Payments to States in lieu of tax on Passenger fares.									
Surplus (+) Deficit (-)	(-) 648.38	(-) 732.97	(-) 800.74	(-) 509.15	(-) 491.20	(-) 1447.62	(-) 2047.39	-1991.92	(+) 1666.74

* Revised

No. of Staff
(Figures in Thousands)

Open line : 93
Construction : 1
Total : 94

													Details
													Assets—(As on 31st March)
													Capital-at-charge (Rs. in crores)
													Total investment (Rs. in crores)
													Route Kilometres Electrified
													Total
													Running track Kilometres Electrified
													Total
													Number of stations.
													Rolling Stock—
													Steam ..
													Diesel ..
													Electric ..
													Passenger carriages
													Electric Multiple Unit coaches.
													Rail cars ..
													Other coaching vehicles
													Wagons
													Staff—
													No. of employees (in 1000s)
													Cost of staff (in crores of Rs.)
													Average cost per employee (in Rs.)
													For the year—
													Transportation Out-put—Train kilometres excluding depot. mental (in millions)—
													Passenger and proportion of mixed
													EMU
													MEMU
													DEMU
													Goods and proportion of mixed
													Vehicle and wagon K.Ms. (excluding depot mental and brake vans) (in millions)—
													Vehicle kilometres
													EMU
													MEMU
													DEMU
													Wagon kilometres
													Volume of Traffic—
													Passenger Traffic—
													No. of passengers originating (in millions)
													Passenger kilometres (in millions)
													Passenger earnings (in crores of Rs.)
													Average lead (in kilometres)
													Average rate per passenger. K.M. (in paise)
													Goods Traffic—
													Tonnes originating (in millions)—
													Revenue earning traffic
													Total traffic
													Net tonne K. M. (in millions)—
													Revenue earning traffic
													Total traffic
													Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)
													Average lead (in kilometres)
													Average rate per tonne kilometre (in paise)
													Quantity of fuel consumed by locomotives—
													Coal (in thousand tonnes)
													Diesel oil (in kilolitres)
													Stores purchased (in crores of Rs.)—
													Indigenous
													Total
													Operating revenue and expenditure (in crores of Rs.)—
													Revenue—Gross receipts
													working expenses including depreciation etc. and miscellaneous expenses.
													Net revenue receipts
													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 (—)

**SOUTHERN RAILWAY
DENSITY STATEMENT FOR THE YEAR 2011-2012---BROAD GAUGE**

[illegible]

[illegible]

Note : Route Kilometre as per Annual statistical Statement No. 8 for B. G.

4229.27

Route Kilometre as per Density Statement for B. G.

The Difference is due to Non-Inclusion of Vilivakkam(VLK) Annanagar(ANNG) in any section (The Traffic has been included in Chennai (MAAS). Arakonam(AJU) Section, Panamburu Yard, Cochin Harbour Yard, Truchetirappalli Yard, Chennai Local Kilometres like Basinbridge(BBQ) To Washermenpet(WST)link, Vyasaradi(VPY) to Korukkupet (KOK)link etc. and rounding off.

202

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.

The Difference is due to Inclusion of sections under Gauge conversion Tirunelveli Town (TVT)–Tenkasi (TSI) 72 Kms, Sencottah (SCT) Punalur (PUU) 49 Kms, Mamamduzai(MM)-Virudunagar(VPT) 66 Kms, Madurai (MDU) Bodinayakanur (BDNK) 90 Kms, Dindigul (DG) to Polichchi (POV) 121 Kms, Tirunelvaipoondi (TTP)-Agastiyampallai(AGX) 36 Kms., Mayiladuthurai (MV)– Tiruvannur (TVR) 38 Kms., Pollachi(POV)-Pallakkad Town (PGTN) 58Kms, Kinnathukkadavu (CNY)- Pollachi(POV) 23 Kms, Bodanur (PTL)- Kinnathukkadavu (CNC) 17 Kms., and rounding OFF.

SOUTHERN RAILWAY

DENSITY STATEMENT FOR ARTERIAL ROUTES AND OTHER ROUTES FOR THE YEAR—2011-2012

(Figures in Thousands)

Routes	NTKM		GTKM					
	Up	Down	Goods		Coaching		Combined	
			Up	Down	Up	Down	Up	Down
BROAD GAUGE								
Arterial	60,81,921	1,17,94,246	1,38,84,149	1,93,22,443	2,29,45,567	2,29,45,567	3,68,29,716	4,22,68,010
Others	5,97,921	5,68,708	11,63,013	10,18,453	41,11,301	41,11,301	52,74,314	51,29,754
Total	66,79,842	1,23,62,954	1,50,47,162	2,03,40,896	2,70,56,868	2,70,56,868	4,21,04,030	4,73,97,764
METRE GAUGE								
Arterial	0	0	0	0	0	0	0	0
Others	0	0	350	346	43,108	43,108	43,458	43,454
Total	0	0	350	346	43,108	43,108	43,458	43,454