

महाप्रबंधक की वार्षिक रिपोर्ट
General Manager's
ANNUAL REPORT

2012—2013

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शब्दावली/GLOSSARY OF TERMS

Readers may find the following definitions of various terms helpful in reading the

al 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 and goods traffic. Kilometrage of double, treble, quadruple tracks, crossings at static from the centre of terminal stations to the end of main line buffer stop are to be exclu

a line open for passenger
d sidings as also the track

GROSS EARNINGS

True earnings in an accounting period irrespective of whether amounts have been

sed or net.

WORKING EXPENSES

True expenses in an accounting period irrespective of whether amounts have been d of Ordinary Working Expenses, Appropriation to Depreciation Reserve Fund and Pen

ed or not. They comprise
und.

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 ba Railway constructions, project authorities, stock owned or hired by them for work.

train on open lines for
endent Railway Project

FRIEIGHT 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

परिचालन संबंधी विशिष्टताएं/HIGHLIGHTS OF OPERATIONS

	Particulars	Units	2011-12	2012-13
Financial Position —				
Capital-at-Charge		₹ in Crores	8004.45	9158.53
Capital Fund		₹ in Crores	3565.81	3565.81
Gross Earnings		₹ in Crores	5608.08	6028.75
Working expenses (excluding suspense)		₹ in Crores	5040.32	5798.20
Net Earnings		₹ in Crores	-1297.62	-1808.10
Operating Ratio		Percentage	122.58	130.59
Percentage of Net Earnings to Capital-at-charge and investment from Capital Fund.		Percentage	-11.22	-14.21
Passenger Statistics —				
No. of Passengers Originating		In Millions	801	831
No. of Passengers Carried		In Millions	860	873
Passenger Kilometres		In Millions	82512	84062
Earnings from Passenger Carried		₹ In Crores	2565.97	2823.61
Average Earning per Passenger Kilometres		In Paise	31.10	33.59
Average length of Passenger journey		Kilometre	95.93	96.29
Freight Statistics —				
Freight Tonnes Originating		In Millions	39.73	37.97
Freight Tonnes Carried		In Millions	64.21	66.11
Freight Tonne Kilometres		Kilometre	17354	17465
Earnings from Goods Carried		₹ in Crores	2140.29	2431.09
Average Earning per Freight Tonne Kilometres		in Paise	123.33	139.20
Average Lead of Tonne of Goods (Revenue)		Kilometre	270	264
Train Statistics —				
Train Kms. Pass & Goods incl. Dept. EMU, MEMU, DEMU (in thousands)		Kilometre	69690	70753
Gross Earnings per Train Kilometres		₹	804.72	852.08
Working Expenses per Train Kilometres		₹	723.25	819.50
Net Earnings per Train Kilometres		₹	-186.20	-255.60
Staff —				
No. of Staff as on 31st March		Number	94492	93805
Cost of Staff		₹ In Crores	4993.43	5592.94
Station and Route Kilometrage —				
No. of Stations as on 31st March (Excl. Halts & incl. Block Huts)		Number	590	598
Route Kilometres as on 31st March		Kilometre	4993.90	5078.71

I. सामान्य समीक्षा/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 Irrigation and Power Project completed and commissioned during 2012-13 is furnished as below :—

Sl. No.	Industrial Projects	capacity	Commissioned on
1.	Bhavani Kattalai Barrage	2x15 MW	Units Synchronised on Unit-I-28/11/2012 Unit-II-28/11/2012.

Sl. No.	Crop	Area (Lakh Hac.)		Production (Lakh MT)	
		2011-12	2012-13	2011-12	2012-13
1.	Paddy	19.04	15.88	111.88	66.33
2.	Rice	19.04	15.88	74.59	44.22
3.	Pulses	6.69	6.21	3.69	2.28
4.	Groundnut	3.86	3.58	10.61	6.07
5.	Oilseeds	4.49	4.29	11.14	6.40
6.	Sugarcane	3.46	3.93	385.76	396.82
7.	Cotton	1.35	1.36	3.82	2.61
				(Lakh bales)	(Lakh bales)
8.	Cholam	1.98	2.14	2.53	1.63
9.	Maize	2.81	3.30	16.95	10.29
10.	Cumbu	0.47	0.52	1.14	0.57
11.	Ragi	0.83	0.81	2.25	1.48

Source : Department of Economics and Statistics

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

STATE: TAMIL NADU

YEAR: 2012-13

STATE: TAMILNADU										
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	..	..	..
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	..	..	..

CROP	Area (in '000 ha.)			Production (in '000 tonn		
	KHARIF	RABI	TOTAL	KHARIF	RABI	TOT
OIL SEEDS						
Groundnut	268.16	117.35	385.51	504.56	391.08	89
Sesamum	20.23	27.96	48.19	10.69	14.70	2
Castor	4.61	1.36	5.97	1.43	0.42	
Sunflower	3.32	5.40	8.72	4.03	6.01	1
Rapeseed & Mustard ..	0.30	0.00	0.30	0.07	0.00	
Nigerseed	0.28	0.00	0.28	..	..	N
Linseed.. ..	0.00	0.00	0.00	..	..	
Sunflower	0.00	0.00	0.00	..	..	
Soyabean	0.27	0.00	0.27	..	..	N
Total Oil Seeds ..	297.17	152.07	449.24	520.78	412.21	93
Sugarcane \$\$..	..	..	315.96	..	..	3425

FIBRE CROPS

Cotton**..	..	..	96.84	23.92	120.76	180.35	67.59	247
Mesta ..	..	..	..	..	0.00	..	..	0
Jute ..	..	..	..	..	..	..	..	..
Sunhemp	..	..	..	..	@	..	..	
Tobacco	..	..	0.02	5.35	5.37	0.03	8.09	8

* 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.

THIRD ADVANCE ESTIMATES OF AREA, PRODUCTION AND YIELD

STATE: TAMIL NADU

CROP	Area (in '000 ha.)			Production (in '000 tonne)		
	KHARIF	RABI	TOTAL	KHARIF	RABI	TOTAL
Rice	341.62	1246.69	1588.31	1178.26	3243.48	4421.74
Jowar (Cholam)	78.22	135.88	214.10	61.41	101.50	162.91
Bajra (Cumbu)	31.07	20.84	51.91	41.85	15.40	57.25
Ragi	58.76	22.45	81.21	104.07	43.43	147.50
Maize	136.46	194.01	330.47	488.67	540.12	1028.79
Korra	0.12	0.17	0.29	0.06	0.08	0.14
Varagu	1.73	1.18	2.91	2.17	1.48	3.65
Samai	19.20	0.95	20.15	22.98	1.14	24.12
Wheat @	0.00	0.00	@			
Other Cereals	0.20	2.46	2.66	0.11	1.18	1.29
Small Millets@@	21.24	4.76	26.00	25.32	3.87	29.19
Barley			N. A.			
Coarse Cereals	325.75	377.94	703.69	721.32	704.32	1425.64
Total Coarse	667.37	1624.63	2292.00	1899.58	3947.80	5847.38

YEAR : 2011-12

Yield Rate (kg/ha)		
(HARIF	RABI	TOTAL
1882	3333	2323
528	526	527
310	309	310
1214	1113	1151
233	..	233
..	..	..
..	..	..
..	..	..
..	..	..
..	..	108

317	480	349
..	..	..
..	..	..
..	..	..
1500	1512	1512

OF PRINCIPAL CROPS

YEAR: 2012-13

Yield Rate (kg/ha)		
HARIF	RABI	TOTAL
3449	2602	2784
785	747	761
1347	739	1103
1771	1935	1816
3581	2784	3113
500	471	483
1254	1254	1254
1197	1200	1197
550	480	485
..	..	..
..	..	..

CROP	Area (in '000 ha.)			Production (in '000 tonnes)			Yield Rate (kg/ha)		
	KHARIF	RABI	TOTAL	KHARIF	RABI	TOTAL	KHARIF	RABI	TOTAL
Bengalgram	0.05	6.65	6.70	0.03	4.28	4.31		644	643
Redgram	45.44	6.52	51.96	33.53	4.97	38.50	738	762	741
Greengram	22.75	101.79	124.54	7.67	24.02	31.69	337	236	254
Blackgram	41.82	234.08	275.90	23.92	69.99	93.91	572	299	340
Horsegram	0.53	77.33	77.86	0.20	29.38	29.58	377	380	380
Other Pulses	51.90	31.96	83.86	20.92	8.89	29.81	403	278	355
Total Pulses	162.49	458.33	620.82	86.27	141.53	227.80			
Total Food Grains	829.86	2082.96	2912.82	1985.85	4089.33	6075.18			
Groundnut	195.82	162.12	357.94	377.53	229.88	607.41	1928	1418	1697
Gingelly	18.36	32.16	50.52	9.03	10.93	19.96	492	340	395
Castor	5.82	1.14	6.96	1.81	0.35	2.16	311	307	310
Sunflower	6.82	6.35	13.17	8.89	1.19	10.08	1304	187	765
Nigerseed			N. A.			N. A.			
Soyabean			N. A.			N. A.			
Linseed			N. A.			N. A.			
Sunflower			N. A.			N. A.			
Rapeseed & Mustard	0.50	0.00	0.50	0.12	0.00	0.12	240		240
Total Oil Seeds	227.32	201.77	429.09	397.38	242.35	639.73			
Cotton #	94.48	41.39	135.87	192.85	68.16	261.01	347	280	327
Jute			N. A.			N. A.			
Mesta @	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jute % Mesta			N. A.			N. A.			
Sugarcane \$	253.03	134.86	392.89	26061.33	13620.96	39682.29	101	101	101

@ - Area less than 100 hectares/production less than 100 tonnes.

* - Production in terms of Rice.

- Production in thousand Bales of 170 kg. of lint each.

\$ - Production in terms of cane.

List of Projects Completed/Commissioned During 2012-13

Sl. No.	Year/Name of Project	Location/ District	Cost (₹ lakhs)	Investment of KSIDC (₹ lakhs)		Emplot (Nos.)	Source (Kerala/ Outside State/ NRV)	Turn over (₹ lakhs)
				Share	Loan			
1	Abad Hotels India Pvt. Ltd. (Exp.)	Emakulam	390.00	0.00	234.00	20	Kerala	1694.81
2	D3 Equipment India Pvt. Ltd.	Alappuzha	350.00	0.00	175.00	80	Kerala	1522.50
3	Corbomix Polymers India Pvt. Ltd.	Kannur	522.00	0.00	250.00	60	Kerala	405.00
4	Corbel Pre Laminated Boards India Pvt. Ltd.	Palakkad	440.00	0.00	200.00	34	Kerala	1411.20
5	Cyber prism Ltd.. (Exp.)	Emakulam	150.00	0.00	90.00	40	Kerala	177.44
6	Diamond Roller Flour Mills Pvt. Ltd. (Exp.)	Kottayam	3282.00	0.00	1800.00	16	Kerala	11784.30
7	Empee Holdings Ltd.	Palakkad	316.00	0.00	189.00	30	Kerala	504.90
8	Foodco Delicacies India Pvt. Ltd.	Alappuzha	800.00	0.00	400.00	115	Kerala	2304.67
9	Geo Aquatic Products Pvt. Ltd.	Alappuzha	1,000.00	0.00	600.00	185	Kerala	2172.60
10	Hoteltek Trade's Pvt. Ltd.	Trivandrum	270.00	0.00	130.00	17	Kerala	357.66
11	Kapiko Kerala Resorts Pvt. Ltd.	Emakulam	28,665.00	0.00	2000.00	350	For (Singa)	10366.66
12	KGA Hotels Estate Management Pvt. Ltd.	Emakulam	16,800.00	0.00	1500.00	175	NRK (Gulf)	6878.19
13	Kumarakom Aqua Serene Pvt. Ltd.	Kottayam	1100.00	0.00	496.00	100	Kerala	613.00

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Sl. No.	Year/Name of Project	Location District	Cost (₹ lakhs)	Investment of KSIDC (₹ lakhs)	
				Share	Loan
14	Moochikunnans Hotel Pvt. Ltd.	Palakkad	780.00	0.00	390.00
15	Mudakkalil Granite Pvt. Ltd. (Exp)	Emakulam	348.00	0.00	260.00
16	Palakkad Rubber Pvt. Ltd. (Exp)	Palakkad	514.37	0.00	300.00
17	Primus Gloves Pvt. Ltd.	Emakulam	110.00	0.00	82.50
18	Propyl Packs Pvt. Ltd. (Exp)	Trissur	175.00	0.00	105.00
19	Silver Castle Holidays & Resorts India Pvt. Ltd.	Wayanad	1,455.00	0.00	500.00
20	Smlash Ispat Pvt. Ltd.	Trissur	560.00	0.00	280.00
21	Tierra Food Inda Pvt. Ltd. (Exp)	Pathanamthitt	1,140.00	0.00	660.00
Total (21 projects)			59,167.37		10,642.40

LIST OF PROJECTS UNDER IMPLEMENTATION

1	Anton Phonse Industries Pvt. Ltd.	Palakkad	550.00	0.00	275.00
2	Accurarch Acrylics Pvt. Ltd.	Trissur	580.00	0.00	290.00
3	Aceller Steels Pvt. Ltd.	Emakulam	550.00	0.00	900.00
4	Al Barakah Financial Services Ltd.	Emakulam	1800.00	440.00	0.00
5	Calicut Granities Pvt. Ltd. (Exp)	Malappuram	5000.00	0.00	186.00
6	Cochin Waste To Energy Pvt. Ltd.	Emakulam	310.00	0.00	587.00
7	Crystal Aluminium Products Pvt. Ltd.	Kozhikode	550.00	0.00	275.00
8	D. M. Healthcare Pvt. Ltd.	Emakulam	50000.00	0.00	2000.00
9	Eurotech Maritime Academy Pvt. Ltd.	Emakulam	1300.00	0.00	650.00
10	Falcon Infrastructure Ltd. (Exp)	Emakulam	271.81	0.00	200.00
11	Gateway Distripacks Kerala Ltd.	Emakulam	2730.00	0.00	1800.00
12	Greeshman Resorts Pvt. Ltd.	Wayanad	2900.00	0.00	1400.00
13	Impel Machines Pvt. Ltd.	Alappuzha	650.00	0.00	503.00
14	Kairali Steel & Alloys Pvt. Ltd. (Exp)	Palakkad	2679.95	0.00	2000.00
15	Kerala Gails Gas Ltd.	Emakulam	200000.00	2400.00	0.00
16	Lalu Convention Centre Calicut Pvt. Ltd.	Kozhikode	13772.00	0.00	1000.00
17	Manna Rice Industries Pvt. Ltd.	Alappuzha	590	0.00	260.00
18	Nirmels & Kaimals Food Pvt. Ltd.	Trivandrum	347.00	0.00	175.00
19	Nitta Gelatin India Ltd.	Emakulam	1960.00	0.00	1175.00
20	Parrison Agro Tech Pvt. Ltd.	Emakulam	3000.00	0.00	475.31
21	Sathyadi Ferro Steels India Pvt. Ltd.	Emakulam	1000.00	0.00	500.00
22	Sanera Healthcare Products Pvt. Ltd.	Palakkad	900 .00	0.00	450.00
23	TMV Natural Oils & Extracts Pvt. Ltd.	Emakulam	325.00	0.00	195.00
24	Travels Scapes Jotels Pvt. Ltd.	Idukki	1342.00	0.00	800.00
25	ULCCS IT Infrastructure Pvt. Ltd.	Kozhikode	21000.00	924.00	2000.00
26	Vivin Luxury Suits Pvt. Ltd.	Trivandrum	1038.00	0.00	638.00
27	Walayar Steels Pvt. Ltd.	Emakulam	600.00	0.00	300.00
28	Waves Electronics Pvt. Ltd. (Exp)	Emakulam	342.00	0.00	205.00
29	YTS Developers and Properties Pvt. Ltd.	Trivandrum	1100.00	0.00	650.00
Total (29 Projects)			318137.00	3764.00	19889.31

Sl. No.	Source (Kerala/ Outside State/ NR/)	Turn over (₹ lakhs)
26	Kerala	787.74
10	Kerala	766.63
32	Kerala	16848.00
33	Kerala	3240.00
10	Kerala	4806.63
27	Kerala	952.22
32	Kerala	4628.78
52	Kerala	2160.63
54		74381.64

31-03-2013

60	NRK (Gulf)	1393.43
45	Kerala	743.52
150	Kerala	23850.63
25	Kerala	3000.00
40	NRK (Gulf)	601.14
62	Kerala	604.73
45	Kerala	3171.00
155	Kerala	20963.61
150	Kerala	1351.27
10	NRK (Gulf)	1926.05
195	Kerala	1734.13
48	Kerala	1553.59
3	Kerala	1739.71
320	Kerala	30240.00
69	Kerala	0.00
83	NRK (Gulf)	2104.21
32	Keral	981.00
35	NRK (Gulf)	1010.45
34	For (Japan)	1743.35
135	Kerala	22141.94
72	Kerala	5276.80
190	Kerala	1889.76
20	Kerala	1006.25
55	Kerala	619.78
015	Kerala	3831.97
16	Kerala	434.73
100	Kerala	3053.27
8	Kerala	1304.07
20	Kerala	228.78
100		138490.48

List of Industrial Infrastructure Projects under the purview of KSIDC (01.05.2013)

Sl. No.	Name of Projects	Location (District)	Total Cost (₹ Crs.)
1	Life Sciences Park, Trivandrum	Trivandrum	300.00
2	Supplementary Gas Infrastructure, Kochi	Alappuzha, Ernakulam, Thrissur, Palakkad, Kozhikkod, Kannur, Kasaragod.	2000.00
3	Electronic Hardware Park, Kochi	Ernakulam	3000.00
4	Business Incubators, Trivandrum	Trivandrum	75.00
5	Coconut Industries Park, Kuttiyadi	Kozhikkod	100.00
6	Titanium Sponge, Kollam	Kollam	3000.00
7	Organic Industrial Park, Kodungalloor	Trissur	140.00
8	Cheemeni Power Project, Kasaragod	Kasaragod	4756.00
9	Light Engineering Industrial Park, Palakkad.	Palakkad	20.00
10	Kocji-Palakkad NIMZ	Ernakulam, Kollam, Thrissur, Palakkad, Malappuram.	53825.00
11	Petroleum, Chemical and Petrochemical Investment Region (PCOIR), Kochi.	Ernakulam	9000.00
12	Integrated Business Hubs	Trivandrum, Kochi, Kozhikkod, Idukki, Kannur.	2750.00
13	Feeder Airports	Idukki, Wayanad	1000.00
Total (13 Projects)			79966.00

S & P 318

Area and production of crops during 2011-12 & 2012-13

Name of Crop	2011-12.		2012-13 (provisional)	
	Area in (Ha)	Production (Tonnes)	Area in Ha	Production (Tonnes)
Paddy	..	..	NA	NA
Rice	208160	568993	198996	533216
Pulses	3668	3128	3483	2960
Groundnut	1712	2152	1640	2037
Oilseeds	1450	..	1360	..
Seasamum	197	76	176	66
Coconut	820867	5941	758302	5275
Green Chillies	1322	1283	1296	1248
Sugarcane	2604	26303	2413	24172
Tobacco	21	37	19	33
Cotton	400	640	350	550
Cholam	280	NA	276	NA
Ragi	248	262	227	238

Production of coconut is in million nuts.

(i) The Power Projects completed during the period 2012-13 :

Sl. No.	Project	Capacity (MW)	Generation (MU)
a.	Peechi Small hydro project	1.25	3.21
b.	Irukkkanam SHP (IPP)	1.5	3.94

(ii) The Projects which are under construction and its benefits.

Sl. No.	Project	Capacity (MW)	Generation (MU)
1.	Vilangad SHP	7.5	22.63
2.	Chathankottunada-II SHP	6	14.76
3.	Chimony SHP	2.5	6.70
4.	Perunthenaruvi SHP	6	25.77
5.	Barapole SHP	15	36.00

Sl. No.	Project	Capacity (MW)	Generation (MU)
6.	Kakkayam SHP	3	10.39
7.	Sengulam Augmentation	..	85.00
8.	Pallivasal Extension HP	60	153.90
9.	Thottiar HP	40	99.00
10.	Aduyanpara SHP	3.5	9.01
11.	Vellathoovai SHP	3.6	12.17
12.	Poringalkuthu SHP	24	45.02
13.	Anakkayam SHP	7.5	22.83
14.	Karikkayam SHP (IPP)	10.5	43.75
15.	Meenvalom SHP (IPP)	3	8.37
16.	Kanjikode (Wind) (IPP)	22	42.3

(iii) The New Projects which are to be tendered and completed during 12th plan.

Sl. No.	Project	Capacity (MW)	Generation (MU)
1.	Olikkal SHP	4.5	10.18
2.	Poovaramthode SHP	2.7	5.88
3.	Upper Kallar SHP	2	5.15
4.	Chembukadavu-III SHP	6	14.92
5.	Ladrum SHP	3.5	10.47
6.	Peechad SHP	3	7.73
7.	Bhoothathankettu SHP	16	60.00
8.	Western Kallar SHP	5	14.29
9.	Marmala SHP	7	16.72
10.	Chathankottunada-I SHP	3.5	7.98
11.	Pazhassi Sagar SHP	15	42.14
12.	Brahmapuram Gas based project (1026MW).	350	2606

NAME OF MINERALS FOUND IN THE STATE AND THE PLACE OF OCCURRENCE

1. Minor Minerals

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

2. Major Minerals

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

II. Minerals and their Uses**Uses of Major Minerals**

Mineral	Uses
Bauxite	Bauxite is the main ore of Aluminium
China clay	Used in Refractories, Pharmaceuticals, paper and paint industries, Ceramics and face powder.
Lime shell	Used in the Cement Industry
Lime Stone	Used in the Cement Industry
Ilmenite	Source of Titanium, Used for paint pigments, welding rod, coatings, ceramics, paper and in Chemical Industry.
Sillimanite	Used in the cement industry, Ceramics, glass making, refinery, iron foundaries etc.
Rutile	Source of Titanium and is used coating or welding roads. Titanium dioxide produced from Ilmenite, Rutile, Titanium slag and synthetic rutile is used in the paper, plastics, inks, Ceramics and textile industry.
Zircon	It is used in the nuclear reactor control rods, as a component of corrosion resistant alloys and employed in chemical processing plants.
Silica Sand	Used for glass making.

Uses of Minor Minerals

Granite building Stone Laterite, Ordinary Sand River Sand.	As construction Material
Granite Dimension Stone	
Brick clay	For making Tile/bricks

2. Railway Kilometrage

The open line kilometrage as

Gauge	Single Line
Southern Railway	
Broad Gauge	2929.16
Metre Gauge	594.97
Narrow Gauge	0.00
Total	3524.13

Note :

Out of 595 km. of MG Route km., gauge conversion.

3. General Review of work 2012-2013 are as follows :

Gross Earnings (in crores of ₹).
Working Expenses (excl. Su (in crores of ₹).
Number of passengers car (in millions).
Tonnes originating (Revenue (in millions).
Tonnes Carried (System) (in millions).
Freight tonne kms. (Revenue (in millions).
Goods Train kms. (in million).
Train Engine kms. (Goods (in millions).

4. PLANNING

1.0 During the year, 52 W. These reports identified 1,82 the areas outsourcing was manpower.

2.0 During the year, 792 po the target of 1,450 posts fixed been more than the 5 years annual financial savings on a resulted in a savings of ₹ 22.8

3.0 CORPORATE PLAN FEATURES - 2012" PUBLICA

A publication titled Corpora Publication titled "Salient Fea by this Branch.

st March 2013

netrage	Track Kilo-metrage including Sidings Kilo-metrage
8 4483.74	7773.55
0 594.97	631.65
0 0.00	0.00
8 5078.71	8405.20

are under various stages of

the year 2011-2012 and

2011-12	2012-13
5,608.08	6,028.75
5,040.33	5,798.20
860.18	873.00
39.40	37.97
64.21	66.11
17,354	17,465
11.84	10.79
23.94	21.15

udies were completed. as surplus; in some of ested to rightsize the re surrendered against railway Board. This has ge of 750 posts. The of the above surrender es (approx.) per annum.

2 - 13" & "SALIENT

n - 2012 - 13" and a 2012" were brought out

5. STATISTICAL ORGANISATION

Statistical Organisation, an arm of Directorate of Statistics & Economics, Railway Board is general administrative department, functioning under the control of FA & CAO/Traffic, assisted by Dy. CAO/Traffic and Statistics and Analysis Officer.

This Organization is collecting, compiling and furnishing accurate and up-to-date data on various activities 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 at Railway Board, Zonal and Divisional level, are being carried out in the organization. In a nutshell, the above activities are carried out in efficient manner so as to achieve the following.

- ♦ To assist in increasing the revenue preposition.
- ♦ To assist in eliminating the waste by expenditure monitoring, and
- ♦ To thereby to assist in enhancing efficiency with economy.

The activity of the Department can be classified into following two broad categories.

Commercial Statistics :

Railway Board, Commercial and Accounts department as users, the following compilation of statements are done.

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

Operating Statistics :

Railway Board, Transportation, Mechanical and Electrical department as users, the following compilation of statements are done.

- ⇒ 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.

Goods Operating Statistics:— Statements consists of Section-wise, division-wise and traction-wise volume of goods traffic and efficiency indices for the use of operating department are prepared month-wise.

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, published every year and the book is also a part of the Budgetary Documents.

A handy booklet (Compendium) – 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 for information, 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.

Chart on density of traffic section-wise, division-wise are prepared with the assistance of drawing bench for publication to grab quick graphical view of the traffic density over sections and divisions.

Statistical Branch Web Page :

Under the initiative of Statistics & Analysis Officer and FA & CAO/T all important statements are posted & updated periodically in the Web Page, including Special Studies/ Analysis and Inspection notes. This helps the users 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 Booking Centres etc to ensure error free compilation and furnishing of data. Periodical Inspections of Advance Tri Monthly Statement at stations and CTR at Crew Booking points & sheds are carried out by S & AO/MAS with the assistance of inspectors. The irregularities during inspection are brought out to the notice of the concerned departments for corrective measures so as ensure accuracy punctuality.

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.

A part from preparation and submission of Annual costing reports, Traffic Costing Cell has began a special survey on 32 stations of Southern Railway for working the cost ratios to enable distribution of Joint/common expenditure between various traffic services. The results of the survey will be submitted to Railway Board.

Data Processing Centre —

Southern Railway Headquarters IT centre is located in the Moore Market Complex, 8th 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) MGMT

6. Operating Statistics System (OSS)

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

1. **FMIS — Financial Management Information System—**

This is an 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 benefits, 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**PRIME—Payroll and Related**

This ORACLE based software

❖ Employee Information

❖ Generation of Payroll and running staff.

❖ Incentive payments

❖ Generation of supply

➤ MACP arrears

➤ PLB, DA arrears

➤ Other arrears

❖ IT—projection statement

❖ Welfare activities implementation and recovery

❖ Settlement payment, etc.

❖ Linked with AFRES

WGR—Workshop General

ORACLE based application

❖ Labour Summary

❖ WGR Module

III. Freight Accounting System

ORACLE based application

❖ RMC data capturing

❖ Data captured from Accounts and used for ORACLE

❖ Generation of other originating Statistical carried out.

❖ CONCOR inputs and Revenue included

❖ Generation of 7A F ORACLE and form Statistical Branch.

❖ Files to RITES for generated in ORACLE through Traffic Accounts

IV. Passenger Accounting

This COBOL based software processing the following.

❖ Passenger Class internal check.

❖ Generation of various Traffic Accounts.

❖ Ticket Indent Work

❖ Normal and Emergency

❖ Validation of PRS (CCM).

❖ Summary file generation for apportionment

❖ Migration to ORACLE stage.

II Systems**pendent Modules—**

application is in use for: stem.

administrative, workshop

workshop employees.

tary and arrears bills.

gements.

z, NDA, OT, etc.

Form 16, etc.

ins & Advances disbursement and interest.

leave encashment, GIS

employee payments.

Master & Labour Summary—

software is being used for :

software is being used for :

processing done in oracle.

terminal available at Traffic modification are carried out processing.

related reports like Analysis, commodity Statistics etc. are

processed and tonnage necessary Reports.

and files are processed in to Railway Board through

ized Apportionment System and forwarded to RITES

em—

ation software used for

in data capturing and

stings and MIS reports for

generation.

Indents.

data received from PRS

and data transfer to RITES

sed system is in advanced

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.

Activities in the office

1. Replacement of hardware, software & networking that have outlined their coadal life under process.
2. Need based software is being developed for the benefit of Executive departments.
3. Co-ordination with CRIs for studied balance sheet is under process alongwith Traffic Accounts.

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 2012-13 as compared to those received during 2011-12 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	4	81	80	5	94	98	1	
2.	Lack of Amenities/unsatisfactory maintenance of amenities at stations/trains.	4	361	364	1	477	474	4	
3.	Late running of trains	1	78	79	0	65	65	0	
4.	Coaching—Reservations and other than reservations.	3	482	476	9	479	485	3	
5.	Catering arrangements	1	95	95	1	88	89	0	
6.	Miscellaneous/suggestions.	2	414	414	2	347	347	2	

4. Number of complaints received, disposed of and pending during 2012-13 as compared to the previous year is as follows:—

Year	Opening Balance	Receipt	Total	Disposed	Pending
2011-2012	15	1511	1526	1508	18
2012-2013	18	1550	1568	1558	10

5. During 2012-2013, a total number of 1,550 complaints other than suggestions were registered as compared to 1,511 complaints in 2011-2012.

6. **Incivility.**—Complaints regarding incivility/behaviour of staff are investigated thoroughly and in proved cases, detorrent 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 facts 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 5 display advertisements, 13 advertisements on social and safety themes and 1145 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.

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 2012 to March 2013.
2. All India Industrial, Agricultural, Educational and Cultural Exhibition at Trichur from April 2012 to May 2012.
3. Chamber of Commerce Trade Fair at Madurai from December 2012 – January 2013.
4. An exhibition at Kozhikode railway station in January, 2013 on the occasion of celebration of 125 years of the railway station.
5. Bharat Nirmaan exhibition at Tiruchchirappalli during Feb 2013.

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

Details of important events

Date	
06.05.2012	Inauguration of Anjilipalam & D crossings in Al
07.07.2012	Flagging off of t Coimbatore – E
09.07.2012	Flagging off c Nagore pas: Announcement & Thanjavur –
18.10.2012	Flagging off of – Yesvantpur
06.11.2012	Flagging off of Chalukya Expr (week).
08.11.2012	Flagging off of Chalukya Expr (week).
15.11.2012	Inauguration Chennai Centr
20.11.2012	Inauguration c line between D services.
15.12.2012	Flagging off o Central – Madu & Chennai Cen bi-weekly Expr
02.01.2013	125 years of
03.01.2013	Dedication of between Kayal
28.03.2013	Laying of foun Railway station

8. Railway Users' Con

Various consultative Railway Users' Consultat Users' Consultative Comr Consultative Committe Committees provide oppo with the administration. related to introduction of n of timings, revision of pas new lines, gauge convers

The Committees have State Legislatures, Sta Commerce and Trade As Public Sector Undertak besides nominations un

During the year 201 Chennai on November 2 Chennai, Two meetings meetings at Madurai w Palakkad, Four meetings meetings at Salem were

9. Vigilance Organis

Preventive, Investigal spheres in which Vigilanc branch organizes differ educate the employees. r and are trained to discha preventive checks are co the system and ensure th for avoiding revenue lea co-ordinates in conduc vigilance / SPE investigat Presidential & PMO refe

from 1/4/2012 to 31/3/2013

ants
ned level crossing gate at n of the recently manned level a section.
nded MEMU services between Salem.
xtended Tiruchchirappalli – train to Karaikal and nsion of Velankanni – Nagore DEMU services to Karaikal urcated Yesvantpur – Kannur train to Karwar.
ension of Yesvantpur – Dadar in from Puducherry (Thrice a week).
ension of Yesvantpur – Dadar ain from Tirunelveli (Thrice a week).
grated Security System for ennai Egmore railway stations ewly converted broad gauge – Palani & Introduction of train
augural specials of Chennai Duronto bi-weekly Express train tiruvananthapuram AC Duronto in
de railway station.
wly constructed second line – Chengannur.
one for escalator at Emakulam

be

mittee Bodies viz. Zonal nmittee, Divisional Railway , Suburban Railway Users' d Station Consultative s for Rail Users to interact ues addressed are broadly ns, new stoppages revision r amenities construction of orks etc.

entatives from Parliament, overnments, Chamber of ions, Agricultural Interests, Passenger Associations, ecial Interests.

one meeting of ZRUCC at Three meeting of DRUCC uchchirappalli and Three d. Three Meetings at uvananthapuram and three cted.

l Educative are the different rtment functions. Vigilance minars and Workshops to ng the latest rules in force eir duties effectively. The d to identify weak spots in ect systems and procedure The vigilance department AR cases arising out of -highest priority is given for , CA-iii references, CVC's

referred complaints and complaints appearing in the media. Source information on alleged irregularities are collected from various sources and Checks are organized out on serious cases of irregularities. A close liaison is maintained with CVC & CBI. Preventive checks are conducted regularly on officials of doubtful integrity and those who are on "Agreed" and "Secret" lists

2. Handling of complaints:

Detailed investigations are undertaken in all cases of genuine complaints, which have vigilance angle. During the year 2012 - 2013, 212 complaints were taken up for investigation.

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

	2012- 2013		
	Gazetted	Non-gazetted	Total
No. of complaints investigated	23	136	159
No. of major penalty proceedings initiated therefrom.	2	9	11
No. of minor penalty proceedings initiated therefrom	3	36	26

3. Preventive Checks

Every year, Railway Board identifies certain thrust areas and checks are carried out by vigilance focusing on these areas. This includes Mass Contact Area, like PRS, Booking Office and Trains, which has a bearing on the image of the Railways as a whole. Special Checks are organized during important festival seasons and holidays in PRS and in Trains to detect irregularities so that genuine passenger is not put to unnecessary hardship. Re-weighment is done regularly to detect leakage of revenue due to over-loading, which is having a safety angle too. Scrutiny of expenditure/earning contracts, leakage of HSD/Lube oil, checks on e-tickets, refund of reservation tickets, fraud in SPTM/UTS tickets, misuse of concessions/passes, disposal of scraps, Hospital management, check on quality of construction are the other thrust areas on which checks are conducted to detect possible irregularities and to plug leakage of revenue. Apart from these thrust areas, the vigilance focuses on other areas where there are possibilities of committing frauds.

During the year 2012-2013, 3,455 preventive checks were conducted by the Vigilance Organization. Department-wise breakup of checks done is furnished below:—

	No. of checks
Accounts	12
Civil Engineering	168
Electrical Engineering	87
Mechanical Engineering	62
Medical	23
Personnel	156
Security	130
Signal & Telecommunication.. .. .	57
Stores	93
Commercial/Operating	2657
Others	10
Total	3455

A total number of 23 "Departmental Test Checks" were conducted over stations, trains, circulating areas of major stations etc. during the year 2012 - 2013 to curb down the malpractices.

In order to augment the checks made in mass contact areas, the vigilance organization is also conducting checks on tout activities. During the last financial year, vigilance conducted 630 checks and 299 touts/anti-social elements were apprehended and prosecuted. Tickets to the value of ₹ 2,27,585/- were seized and an amount of ₹ 1,38,050/- was collected as fine.

4. Punitive Action taken during the year 2012 - 13

The Inquiry Organization functioning under SDGM & CVO has completed 82 departmental Inquiries during the year 2012 - 2013 and Inquiry Reports were sent to the concerned disciplinary authorities for necessary DAR action.

No. of officials punished as a result of Vigilance DAR proceeding.

Penalty	Gazetted	Non-gazetted	Total
MAJOR	3	78	81
MINOR	24	546	570

5. Earnings accrued to the Railway through vigilance checks during the year 2012 - 13 was ₹. 3,06,13,575/-.

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

Sl. No.	Details of earnings	Amount (₹)
1	Earnings from without ticket passengers	48,661
2	Earnings from transferred tickets ..	2,400
3	Earnings from un-booked luggage/parcels	400
4	Earnings from undercharges realized ..	2,69,95,381
5	Earnings from higher travel	4,900
6	Earnings from excess/shortfall in Govt. cash.	19,792
7	Other traffic recoveries	7,64,098
8	Leave Account / Establishment matter ..	1,56,887
9	Technical recoveries	24,39,886
10	Amount realized as fine by Court of Law	1,81,170
	Total ..	3,06,13,575

6. System Improvements suggested by Vigilance:

As a part of preventive vigilance, the following System Improvements were suggested during the year 2012-13 based on preventive checks and complaint investigations:—

- 6.1 System improvement has been suggested to mark Incurring Demurrage Charges every hour till completion of the loading / unloading at Goods-shed, to prevent evasion of Demurrage charges by manipulating the timings in FOIS.
- 6.2 System improvement has been suggested to define the working hours of Supervisors performing General Duty in Booking Office, Parcel Office and PRS locations.
- 6.3 In a passenger amenity works contract having SETC along-with future AMC, it was observed that the scope of work for AMC has not specified in the initial tendering stage. A system improvement was suggested to specify the scope of AMC work at the initial stage itself.

- 6.4 A system improvement in the working of Microwave organization of Southern Railway was suggested to CSTE/MAS in regard to provision of scale check & redeployment of excess staff.
- 6.5 To avoid delay in information on vigilance history of officers joining / transferred from Zonal Railways, a pro-active initiative has been taken to ensure basic information on vigilance status of such officers, the following course of action is suggested:
"Dy.CPO/Gaz. has been asked to submit a monthly statement of officers going to and from Southern Railway on Inter-Railway transfers in the prescribed format based on which initiative will be taken by SR Vigilance".
- 6.6 A System improvement is suggested for the speedy disposal of the pending stock sheets and Accounts Notes and strict adherence to the 2005 JPO as follows.
- (1) Reiteration of JPO dated 21.09.2005 which *inter-alia* require Stock Verification Clearance for promotion, transfer, deputation, voluntary retirement and superannuation.
 - (2) A review of existing stock sheets and Accounts Notes to ensure noting of name, PF No. and date of retirement on the stock sheets and Accounts Note.
 - (3) Periodical meeting, quarterly or half-yearly, of all branch executives and stores Accounts officer may be convened by one officer, who may be nominated by the competent authority at Divisions, Workshops, construction and MTP. The meeting may be focused for the speedy disposal of Stock Sheets/Accounts Notes/ Inspection Reports as prescribed in the JPO (within 6 months from the date of stock sheets).
 - (4) All Sr.ISAs/SVs should invariably ensure the name, PF No. and date of retirement of the custodians at the time of preparation of Stock sheets/Accounts Notes. The same should be entered in the database of SV section and reflect in the outstanding list to be sent to the branch executives every month.
 - (5) Whenever the custodian transferred and stock sheets converted into Accounts Note, the details should be entered in the database by adding additional column in the data base. This should also reflect in the monthly statement to be sent to the Controlling Officers.
- 6.7 A System Improvement was suggested to Personnel Branch, on bigamy issue related cases, for
- i) to avoid future litigations on rival claims
 - ii) to protect the Social Obligations committed to providing enhanced family pension and other matters to the right persons
 - iii) to avoid embarrassment to Railways in the Courts.
- 6.8 A System Improvement has been suggested to ensure proper maintenance of Daily Terminal Cash Book, declaration of the employee concerned in writing for any short-remittance and also clearance.
- 6.9 A System improve Blank NI tickets and separately so that it detect UTS fraud by tickets.
- 6.10 A system improve training on operation officials whenever so LED display board a trouble free functionir
- 6.11 A system improve clear delivery condit 9 plates from the tie b as breaking not perm
- 6.12 A system improve cross reference betw certificate to ensure wagons are manuf passed raw material:
- 6.13 A System Improve the Scale of Parcels so that parcels booked by trains of higher sc of revenue.
- 6.14 When less than 3 up to the Train, it is mar leg. The sleeper clas upper class TTE eve coaches are less tha System Improvement mandatory for TTEs n man at least 3 coac coaches also.
- 6.15 A System Improve of outgoing parcels w on the flow path to ens booked and also cons can be checked to av
- 6.16 Based on a preventive was suggested to il materials on technica to all other consignees awareness on the qu
- 6.17 Based on a preventive was suggested that a by COS/PER to the e lot is permitted, it sho officials that the cutl beyond the normal wi
- 6.18 Based on a complai suggested as when obtaining passport, th one month or three r employee has to prov administration. In cas same also needs to k
- 6.19 Based on a preventive is suggested as correc should be carried out in only by producing leg date of birth duly getti the rank of JAG level.
- been suggested to keep dged printed NI tickets be easier for the TIAs to ng the Alpha-code in the
- is suggested to provide maintenance for the field ited item like True colour cured in order to ensure ie items.
- s suggested for providing arding separation of CST tead of a vague condition s in the delivery order.
- s suggested to incorporate SO and RITES inspection the product for BOXNR d out of the inspection
- been suggested to mark l on the Consignments, ower scale are not carried areby preventing leakage
- ss coaches are attached y one TTE in the second ches are not manned by e number of upper class order to prevent this, a en suggested to make it g upper class coaches to y adding Sleeper Class
- suggested for revised flow tronic weighing machine 0% weighment of parcels nts in leased SLRs/AGCs / over-loading.
- k, a system improvement about the rejection of nds at a particular depot purchase order to create the materials supplied.
- k, a system improvement y circular may be issued whenever a cutting of sold nsured by the witnessing ould not be carried out hours.
- system improvement is y employee applies for in some time frame (say - CPO may decide), the passport number to the has not applied, then the raised to Railways.
- k, a system improvement n the date of birth of wards amily composition register lid document as proof of roval of officer not below

6.20 A System Improvement has been issued to make it mandatory for all staff working in Mass Contact Areas to declare their private cash before taking up duty, irrespective of the nature of their duties, i.e. accounts, charting etc.

6.21 A system improvement was suggested to provide History Book to the static invertors in the AC coaches in all the units in S. Railway.

6.22 A surprise check was organized as part of complaint investigation at Rail Kalyanamandapam at Chennai Division. At the instance of Vigilance unauthorized persons were evicted from the precincts. However, a case has been registered and eventually vigilance has laid down significant system improvement to the departments concerned for adhering the existing instructions in true spirit.

6.23 The COS & FA&CAO have been advised to formulate a JPO with adequate checks and balances to monitor the refund of security deposit within 60 days.

7. Vigilance Awareness Programmes :

7.1 A training class was conducted at SRCETC/TBM about Vigilance awareness to the SSE/JEs of P.Way/Works/ BRIs on 5-4-12.

7.2 A seminar on vigilance awareness was conducted on 4-5-2012 in Zonal Training School/S&T/Podanur to the Supervisory staff who attending training course.

7.3 A seminar on vigilance awareness (Electrical/S&T side) was conducted in TPJ Division on 4-5-2012 to the Office staffs, which organized by Dy.CVO/Engg.

7.4 A seminar was organized on 'contract management' for newly promoted Group 'A' & 'B' officers on 16-5-2012, which was inaugurated by Addl. General Manager/Southern Railway. Chief Administrative Officer/ Construction and Principal Chief Engineer/ Southern Railway delivered lectures.

7.5 A lecture was delivered to Probationary Commercial Clerks and Commercial Apprentices on 31-5-2012 at Zonal Railway Training Institute on "Vigilance Awareness".

7.6 Vigilance training was conducted on 21-6-12 at MDU for all supervisors and officers of MDU division on the following matters:—(1) Receipts & issues (2) Stock verification (3) Dos' & Don'ts of maintenance of Tools & plants and (4) Establishment, Financial matters & Selection procedures etc.

7.7 Vigilance Awareness on System Improvement & Contract Aspects was conducted on 27-6-2012 by Dy.Chief Vigilance Officer/Engg. at Southern Railway Civil Engineering Training Centre/Tambaram.

7.8 Self training module for the following have been uploaded of the Vigilance (Accounts & Personnel) page of Rail net:—

- (i) Do's & Dont's in Maintenance of Tools and Plants
- (ii) Establishment & Finance Matters
- (iii) Receipt, Custody, Issue of and Surplus Stores – an overview
- (iv) Stock verification and

- (i) A compendium on Dos' & Dont's in Establishment matters and ;
- (ii) Check lists for processing different kinds of Finance proposals.

7.9 On 24-8-2012 'Vigilance Awareness' Training conducted at SRCETC/TBM for SSE, JE & PWS (P.Way) by Chief Vigilance Inspector/Engg.

7.10 On 10-9-12, a seminar on 'vigilance angle' conducted by CVI/S&T/MAS to promotional trainees of Gr.'C' to Gr.'B' & Modular course candidates at S&T training centre/PTJ.

7.11 On 11-9-12, a seminar on Vigilance Awareness & Contract Management was conducted to PWIs & IOWs by Dy.CVO/E/MAS at SRCETC/TBM.

7.12 On 12-9-12, a seminar on tender, stock verification, leave accountal & DAR conduct rules/General was conducted by Dy.CVO/A/MAS for Gazetted officers in the Forenoon and for the Group 'C' staff of DRM/O/ PGT in the Afternoon.

7.13 On 18-9-12, a lecture on 'safe working practice' for Pro.TEs was delivered by Sr.VO/G/MAS.

7.14 On 25-9-12, a seminar on Vigilance Awareness & Contract Management was conducted to PWIs & IOWs by Dy.CVO/E/MAS at SRCETC/TBM.

7.15 A Lecture on Transparency in Railway Working was delivered to front-line staff of Commercial Department of MAS division on 31-10-2011.

7.16 Training programme for the officers and staff separately on selection, D&AR, leave matters, tenders etc. were conducted by Dy.CVO/A at TPJ Division, GOC workshop and for officers in SA division.

7.17 In commemoration of Vigilance Week, a lecture was made at PGT division on transparency in public procurement on 30-10-12

7.18 On 31-10-2012, a training/seminar on vigilance awareness was conducted at S&T Zonal Training School/PTJ.

7.19 On 1-11-12, a lecture on Vigilance awareness was delivered by Sr.VO/G for RPF staff at Chennai.

7.20 On 1-11-12, a lecture was made at CPCL., Chennai on 'transparency in public procurement'.

7.21 On 1-11-2012, a training / seminar on vigilance awareness was conducted at Divisional Headquarters Office/TPJ.

7.22 On 2.11.12, in commemoration of vigilance awareness week, a lecture was made at COS/O/PER on 'transparency in public procurement' was delivered by Dy. CVO/S for officers & supervisors of stores department.

7.23 Dy.CVO/L delivered a lecture at Zonal Training School/ TPJ as part of vigilance awareness week observation.

7.24 A Power Point Presentation on "Medical Procurement: Common Pitfalls" was loaded to Vigilance (Accounts/ Personnel) page in Railnet.

- 7.25 A seminar was conducted on 'Transparency of Public Procurement' by Sr.Vigilance Officer/Mechl./MAS on 14-12-2012 for General Managers of National Textiles Corporation/Coimbatore on their request.
- 7.26 A lecture was delivered by Dy.CVO/A on the subject "Public Procurement and Works Contracts – Due diligence and Transparency" on 23-1-2013. The beneficiaries were Trainee Officers of Railtel at NATFM, Hyderabad. The contents were uploaded in the self training module of the Accounts & Personnel page of Vigilance in the Rail net site of Southern Railway.
- 7.27 One day Workshop on vigilance angle in finalizing the Tender, Leave Rules, D&A rules and Settlement matters for Junior Accounts Officer was conducted on 1-2-2013 at Chennai.
- 7.28 Three Seminars on vigilance awareness was conducted on 6-2-13, 21-2-13 & 28-2-2013 at Podanur, Trivandrum and Salem for S&T and Electrical Supervisors.
- 7.29 On 21-3-2013 a seminar was conducted for supervisors / officers of S&T Branch, Chennai area on vigilance awareness.

8. Vigilance Publication

A Special Vigilance Bulletin awareness week incorporated letters, case studies viz. in contracts and irregularities etc.

In addition, a vigilance Chingari" is also available wealth of information in

9 General Manager's

General Manager's Annual DRMs during year April

Sl. No.	Dated	Division
1	5-3-2013	SA
2	20-3-2013	TPJ

The above details are Annual report for the year

ng 2012 – 13

is published during vigilance important Railway Board's activities in claim, irregularities accountal & delivery of scrap

monthly e-bulletin "Chethna rail net, which contains a binary matters.

Inspection

inspections along with PHOD/ 2013.

Station from-to	Distance	Gauge in Kms.
SA-JTJ	120	BG
RI-GOC	120	BG

ed in connection with GM's 13.



III. वित्तीय परिणाम/FINANCIAL RESULTS

Financial Results of Working

Financial Results of working for the year 2012-2013 compared with 2011-12 :-

(Rupees in lakhs)			
Particulars	Actuals 2011-12	Actuals 2012-2013	
1. (a) Capital-at charge ..	8,00,445	9,15,853	
(b) Investment from Capital Fund	3,56,581	3,56,581	
2. (a) Gross Traffic Earnings ..	5,60,808	6,02,875	
(b) Suspense ..	-1,220	-949	
(c) Gross Traffic Receipts ..	5,59,588	6,01,926	
3. (a) Ordinary Working Expenses..	5,04,032	5,79,820	
(b) Suspense ..	2,236	-4,537	
(c) Ordinary Working Expenses.. (incl. susp.)	5,06,268	5,75,283	
4. Appropriation to D. R. F. ..	49,005	51,100	
5. Appropriation to Pension Fund ..	1,34,395	1,56,400	
6. Payment to worked lines ..	—	—	
7. Total working Expenses ..	6,89,668	7,82,783	
8. Net Traffic Receipts ..	-1,30,080	-1,80,857	
9. Net Miscellaneous Receipts ..	-32	47	
10. Net Revenue ..	-1,30,112	-1,80,810	

(Rupees in lakhs)

Particulars	Actuals 2011-2012	Actuals 2012-2013
11. Payment to General Revenues— Subsidy from General Revenue towards Divident Relief and other concessions.	26,740	24,418
12. Surplus/Shortfall ..	(-), 1,56,852	(-), 2,05,228
13. Operating Ratio ..	122.58	130.59
14. Percentage of Net Revenue to Capital-at-charge and Investment from Capital Fund.	(-) 11.25	(-) 14.21

2. Traffic receipts

The details of Revenue Receipts for 2011-12 and 2012-13 :-

(Figures in lakhs of ₹)			
Heads of Traffic	2011-12	2012-13	Variation
Passenger ..	2,56,597	2,82,361	25,764
Other Coaching ..	26,958	32,003	5,045
Goods ..	2,23,408	2,53,675	30,267
Sundries ..	53,845	34,836	(-)19,009
Suspense ..	(-) 1,220	(-) 970	250
Gross Earnings ..	5,59,588	6,01,905	42,317
Sundry Earnings 2011-12 includes CMRL earnings of Rs. 29,899 Lakhs.			
Sundry Earnings 2011-12 includes CMRL earnings of Rs. 6,164 Lakhs.			

3. Coaching Earnings

(a) Passenger Earning under important Heads During 2012-2013 compared with 2011-2012 on Central Railway Pattern.

Particulars	Traffic Earnings		Difference		Percentage of Variation	
	2011-2012	2012-2013	2011-2012	2012-2013	2011-2012	2012-2013
	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	319	3,428	337	2,847	18	-581
Air-conditioned 2-Tier	3,498	20,689	3,688	21,858	190	1,169
Air-conditioned 3-Tier	9,310	40,906	10,311	43,023	1,001	2,117
A. C. Chair Car ..	2,845	10,363	3,209	10,860	364	497
First Class—						
(a) Mail/Express ..	383	2,032	283	1,725	-100	-307
(b) Ordinary ..	881	235	885	335	4	100
Total ..	1,264	2,267	1,168	2,060	-96	-207
Second Class Sleeper—						
(a) Mail/Express ..	55,226	63,705	59,912	91,036	4,686	27,331
(b) Ordinary ..	469	695	547	428	78	-267
Second Class Ordinary—						
(a) Mail/Express ..	1,17,902	71,920	1,22,172	75,181	4,270	3,261
(b) Ordinary ..	2,87,055	30,409	2,76,476	20,784	-10,579	-9,625
Total Non-Suburban ..	4,77,888	2,44,382	4,77,820	2,68,077	-68s	23,695
B. Suburban						
First Class (Ordinary)	75	40	90	49	15	9
First Class (Season)	9,740	776	10,636	997	896	221
Second Class (Ordinary)	1,49,224	7,850	1,56,685	8,288	7,461	438
Second Class (Season)	2,23,248	3,549	2,27,772	4,950	4,524	1,401
Total Suburban	3,82,287	12,215	3,95,183	14,284	12,896	2,069
Grand Total	8,60,175	2,56,597	8,73,003	2,82,361	12,828	25,764

(b) Goods earnings under important heads during 2012-2013 compared with 2011-2012 on Central Railway pattern—

	Tonnes carried-on System		Earnings	
Sl. No.	Particulars	(in millions)		(₹ in lakhs)
	2011-2012	2012-2013	2011-2012	2012-2013
A. Revenue Earnings Traffic:—				
1. Products of Agriculture	10.447	10.828	41,379	48,058
2. Animals & Products of Animals.	0.000	0	0	0
3. Products of Mines	25,560	27,663	70,603	83,322
4. Mineral Oil	3,794	4,402	15,800	20,738
5. Products of Forests	0,216	0,239	566	705
6. Manufactures	13,812	14,502	54,064	64,270
7. Miscellaneous	10,378	8,472	31,617	24,016
8. Total Revenue traffic..	64,207	66,106	2,14,029	2,43,109

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	0.334	0.162	0.00	0.00	
(b) For other Govt Rlys., etc.	0.000	0.000	0.00	0.00	
11. Total Non-Revenue	0.334	0.162	0.00	0.00	
12. Grand Total Revenue and Non-Revenue	64,541	66,268	2,14,019	2,43,109	

(c) Other Coaching Earnings under important heads during 2012-2013 compared with 2011-2012 on Central Railway Pattern :—

(Figures in lakhs)				
Sl. No.	Particulars	2011-2012	2012-2013	Variation
1. Special Trains and reserved carriages(Public)		919	674	-245
2. Special Trains and reserved carriages(Military)		1,126	1,011	-115
3. Luggage collected at stations	565	686	121	
4. Luggage collected by special ticket checking staff.	331	270	-61	
5. Public Parcels	14,872	13,945	-927	
6. Transport of Mail	2,095	2,050	-45	
7. Service Parcels	0.00	0	0.00	
8. Miscellaneous	7,068	13,406	6,338	
Total	26,976	32,042	5,066	
Less Refunds	18	39	21	
Net Other Coaching Earnings	26,958	32,003	5,045	
Total Coaching Earnings	2,83,555	3,14,364	30,809	

4. Ordinary Working Expenses

Appropriation Accounts for 2012-2013—Statement showing percentage of Working Expenses to Earnings for the year 2012-2013 :—

Name of the Railway	Percentage of Working Expenses to Earnings
Southern Railway	130.59

I. The Operating ratio of 2012-2013 is 135.9 % is 8.01 points more than the Operating ratio of 2011-2012. (122.58%).

(a) The Gross Earnings for 2012-13 is ₹ 6,028.75 crores as against ₹ 5,608.08 crores for 2011-2012 with an increase of ₹ 420.67 crores with an increase of ₹ 420.67 crores. (7.50%).

(b) The Ordinary Working Expenses for 2012-2013 in respect of Grant No. 3 to 13 in respect of Grant No (15.04%).

(c) Appropriation to DRF (4.27%) and Appropriation to Pension Fund has increased by ₹ 220.05 crores (16.3 %).

(d) The Total Working Expenses for 2012-2013 including Appropriation to DRF and Pension Fund is ₹ 7,873.2 crores (excluding suspense) as against ₹ 6,874.32 crores for 2011-2012 with an increase of ₹ 998.88 crores (14.53%).

II Earnings.—Analysis of

(a) **Passengers :—** Total Earnings is ₹ 257.64 crores over the previous year. The details are as follows :—

(Figures in crores of ₹)	
Increase in fares	205.62
Increase in traffic	52.02
Total	257.64

(b) **Other Coaching :—** Total Earnings is ₹ 50.45 crores over the previous year. The details are as follows :—

(Figures in crores of Rs.)	
(i) Increase in Parcels	-9.22
(ii) Increase in Luggage	0.59
(iii) Increase Under Military	-3.85
(iv) Increase in Postal Bill	-0.45
(v) Increase in Others	63.38
Total	50.45

(c) **Goods Traffic :—** The Earnings is ₹ 302.67 crores over the previous year. This is mainly due to :—

(Figures in crores of ₹)	
(i) Increase in Rates	-192.71
(ii) Increase in Traffic	484.92
(iii) Increase in Miscellaneous	10.46
Total	302.67

(d) **Sundries :—** The Earnings is ₹ 190.09 crores over the previous year. This can be mainly attributed to :—

(Figures in crores of ₹)	
(i) Increase under Rent	0.03
(ii) Increase under Demerit	-153.64
(iii) Increase in Catering	5.66
(iv) Decrease in Others	-42.14
Total	-190.09

III. Working Expenses.—

Increase under Ordinary Working Expenses covered by Grants 3 to 12 on Gross Earnings amounts to ₹ 73,504.60 crores more than that of the previous year. The reasons for the variations are dealt by Part IV.

(Figures in thousands of ₹)	
(1) Salaries and Wages	11,14,008
Due to less payment	(-) 1,14,008
(2) Dearness Allowance	16,48,145
Due to twin hikes in	

Expenses for 2012-2013 are more by ₹ 757.88 crores than for the year 2011-2012.

increased by ₹ 20.95 crores. Pension Fund has increased during 2012-2013.

Expenses for 2012-2013 including Pension Fund is ₹ 7,873.2 crores as against ₹ 6,874.32 crores for 2011-2012 with an increase of ₹ 998.88 crores (14.53%).

over actuals of 2011-2012.

increase under Passenger Earnings amounts to 10.04% over the previous year. The increase is as follows :—

(3)	<i>Productivity Linked Bonus(PU -03)—</i>	
	Due to less payment in 2012-13	5,806
(4)	<i>House Rent Allowance (PU -04)—</i>	
	Due to less Payments in 2012-13	(-) 20,173
(5)	<i>CCA (PU -05)—</i>	
	Nil expenditure	(-) 18
(6)	<i>Transport Allowance (PU -07)—</i>	
	More payments in 2012-13 due to twin DA hikes	66,419
(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	1,37,387
(9)	<i>Overtime Allowance (PU -11)</i>	
	Due to less claims in the year 2012-13	(-) 28,175
(10)	<i>Night Duty Allowance (PU -12)—</i>	
	Due to enhancement in rates and payment of arrears.	31,956
(11)	<i>Other Allowance (PU -13)—</i>	
	Minor variation	(-) 228
(12)	<i>Fees and Honoraria (PU -14)—</i>	
	Payment of less honorarium claims	(-) 9,770
(13)	<i>Transfer Allowance (PU -15)—</i>	
	More payment on account of transfers	5,675
(14)	<i>Travelling Expenses (PU -16)—</i>	
	Due to less claims in the year 2012-13	(-) 45,327
(15)	<i>Leave encashment during service (PU-20)</i>	(-) 29,633
	Due to less claims in the year 2012-13	
(16)	<i>Children Education Allowance (PU-25)</i>	(-) 28,868
	Due to less claims in the year 2012-13	
(17)	<i>Contingencies (PU-18 to 24)</i>	81,695
	Due to more payments of CUG, water charges as well as medical contingencies.	
(18)	<i>Drawal from Stores (PU-27)</i>	
	More due to increase in activities - Track maintenance	(-) 9,274
	More drawals of stores for electric locomotive activities, Carriage & electrical, General service.	20,866
	More drawals of stores for Elec. & Signal equipments maintenance.	56,199
	More consumption of lubricants, Brake blocks & for station cleaning.	1,01,966
	More drawal due to fuel consumption	3,15,929
	More drawal of stores for other activities	1,738
	Total	5,05,972

(19)	<i>Cost of materials - Direct Purchase (PU-28)</i>	
	More due to increase in activities in track maintenance	19,634
	More purchase of material for Elec. locomotive maintenance offset by saving under wagon.	4,355
	More purchase under for electrical equipments	24,419
	Less under linen procurement	-24,615
	Less under medical procurements	-4,787
	Due to decrease in other activities	-187
	Total	1,819
(20)	<i>Fuel for other than traction (PU-31)</i>	
	More consumption of fuel for generators in Rajdhani, Shatabdi & Duranto Express.	10,006
	Due to increase in other minor activities including fuel for staff cars	4,528
	Total	14,534
(21)	<i>Contractual Payments (PU-32)</i>	
	More under Contractual payments for track maintenance.	1,73,334
	Less due to contracts for Dsl. & Elec. locomotives offset by more expenditure for wagon maintenance contracts.	(-) 607
	More towards under Contractual Payments under Elect. S & T and Engg. Departments etc.,	13,984
	More towards Electrical energy other than traction linen and running room contracts.	2,18,732
	More towards PRS maintenance contracts	11,493
	More consumption of Electrical Energy for traction purpose.	10,67,520
	More under repairs and maintenance of Residential & Welfare buildings.	83,734
	Less due to Catering contracts	(-) 2,961
	Due to more payments for RRC	1,293
	Total	15,66,522
(22)	<i>Transfer of debits/credits from other Units (PU-33)</i>	
	More debits under Permanent Way	91,135
	More inward debits under Dsl. & Elect locos	67,861
	More inward debits for carriages	12,759
	More credits for traction machines	(-) 2,05,255
	More Debits for supply of energy for non-traction purpose.	10,589
	Less credits realised from IRCA & more debits for IRFA.	13,73,735
	More Debits towards both Elec. & Dsl. traction.	3,28,263
	More debits towards for street lighting for quarters and welfare bldgs.	4,044
	More inward debits towards RPSF & Caterings debits.	73,816
	Due due to other activities	(-) 304
	Total	17,56,643
(23)	<i>Adjustment of 'Wages' on POH (PU-34)</i>	
	Increase in activities under wagon repairs	2,90,258
	Decrease in activities in repairs to plant & equipments.	(-) 15,430
	Due due to other activities	(-) 2,560
	Total	2,72,268

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(24)	Adjustment of 'Materials' on POH (PU-35)	
	Increase in activities in POH repairs of locomotives - Electrical.	54,923
	Increase in POH activities of Carriages & Elec. Gen. Services.	1,97,659
	Increase in activities in repairs to Plant & equipments.	13,793
	Minor factor	(-) 78
	Total	2,66,297
(25)	Excise Duty (PU-36)	
	More payments of ED	74,342
	Due due to other activities	2,462
	Total	76,804
(26)	Customs Duty (PU-37)	
	No incidence of expenditure	0
(27)	Sales Tax (PU-38)	
	More payments towards ST for fuel	1,27,338
	Minor factor	(-) 82
	Total	1,27,256
(28)	Air Travel-Domestic (PU-39)	
	More incidence of expenditure	83
(29)	Air Travel-Foreign (PU-40)	
	More incidence of expenditure	1,079
(30)	VAT (PU-41)	
	More tax paid in lieu of Sales tax	5,649
(31)	Arrear Payments - Salary & Wages (PU-42)	
	MACP Arrears	4,14,344
(32)	Arrear Payments - Dearness Pay & DA (PU-43)	
	MACP Arrears & DA hikes	3,37,097
(33)	Arrear Payments - Allowances other than DA (PU-44)	
	MACP Arrears & DA hikes	2,19,591
(34)	Service Tax DA (PU-45)	
	More service tax paid	3,043
(35)	Cost of Computers - Hardware/System (PU-50)	
	Due to more procurement of PC by departments	7,364
(36)	Computer Consumables (PU-51)	
	Due less AMC Contracts	4,432
(36)	Other Expenses (PU-99)	
	More due to commission and legal charges	19,605
	More due to movements of Ballast trains	20,032
	More rental charges to P & T	41,912
	More freight charges	13,898
	Less reimbursement of Medical expenditure & SBF.	(-) 8,305
	Less under cost of order Police & Accident Compensation.	(-) 43,219
	Due due to other activities	7,857
	Total	51,780

IV. Percentage of Working

	Budget Gr 2012
1. (a) Capital-at-charge	8,81
2. Investment from Capital Fund	3,95
3. Earnings—	
(a) Passenger	2,90
(b) Other Coaching	31
(c) Goods	2,75
(d) Sundries	31
(e) Total Gross Earnings	6,33
(f) Traffic Suspense and demands recoverable.	
(g) Gross traffic receipts	6,33
4. Working Expenses—	
(a) Ordinary working Expenses	5,94
(b) Appropriation to DRF	70
(c) Appropriation to Pension Fund.	1,35
(d) Suspense	(-) 3
(e) Total working Expenses.	8,01
5. Net Traffic Receipts 3(g)-4(e)(-)	1,68
6. (a) Miscellaneous Receipts	426
(b) Miscellaneous Payments	446
(c) Net Miscellaneous Receipt.	(-) 20
7. Net Revenue 5+6 (c)	(-) 1,68
8. (a) Payment to General Revenue	41
9. Subsidy from G. R. towards dividend relief & other concessions.	10
10. Surplus (+)/Deficit(-)	(-) 1,95
11. Percentage of working expenses to Gross Earnings	12

Percentage of working expenses to Gross Earnings
Comparison of Working Expenses Credits realised for 20012-

1. More on working expenses	..
2. More under DRF	..
3. More under Pension Fund	..
4. Less under charged (3 to	..
5. More credits Realised (3	..
6. More under PF, Pension &	..
Total	99,88,789

(ii) Details of Working Expenses

De- mand No.	Abstract	Part
(3)	A General Superintendence	
(4)	B Repairs and Maintenance Way and Works.	
(5)	C Repairs and Maintenance	
(6)	D Repairs and Maintenance Wagon.	
(7)	E Repairs and Maintenance Equipment.	
(8)	F Operating Expenses—Road Equipment.	
(9)	G Operating Expenses—Tr	
(10)	H Operating Expenses—Fu	
(11)	J Staff Welfare and Amen	
(12)	K Miscellaneous working e	
(13)	L Net Provident Fund, Pen Retirement Benefits.	

Suspense—	
(12) N. Demands Payable (D	
(12) N. Miscellaneous Advance	

ences to earnings—
(In lakhs of ₹)

Revised 2-13	Actuals 2012-13	Actuals 2011-12	Actuals 2010-11
25,265	9,15,853	8,00,445	6,80,794
36,581	3,56,581	3,56,581	3,56,581
38,600	2,82,361	2,56,597	2,31,769
32,500	32,003	26,958	25,771
39,300	2,53,675	2,23,408	1,95,291
30,000	34,836	53,845	26,196
20,400	6,02,875	5,60,808	4,79,027
400	-949	(-) 1,220	483
20,800	6,01,926	5,59,588	4,79,510
79,663	5,79,820	5,04,032	4,82,047
52,200	51,100	49,005	45,000
31,000	1,56,400	1,34,395	1,22,262
4,663	(-)4,537	2,236	(-)2,524
78,200	7,82,783	6,89,668	6,46,785
57,400	(-)1,80,857	(-) 1,30,080	(-)1,67,275
426	327	318	205
446	280	350	375
(-) 20	47	(-) 32	(-) 160
57,420	(-)1,80,810	(-) 1,30,112	(-)1,67,435
34,474	34,290	36,912	32,132
9,295	9,872	10,172	7,693
12,599	(-)2,05,228	(-)1,58,852	(-)1,91,874
126.19	130.59	122.58	135.55

Earnings for the year 2012-13.
Appropriation to Funds and that of 2011-12.

ry
(Figures in thousands of ₹)

..	73,50,460
..	2,09,500
..	22,00,529
..	(-)61,379
..	1,68,708
..	1,20,971
..	99,88,789

tract wise/Demand wise
(In thousands of ₹)

	2011-2012	2012-2013
..	40,02,406	44,64,258
..	47,97,367	54,18,598
..	23,42,330	26,72,157
..	62,62,584	70,86,779
..	30,13,424	32,10,779
..	44,39,319	51,78,053
..	77,34,701	97,09,003
..	1,17,03,242	1,36,37,144
..	32,26,937	34,20,146
..	25,78,719	27,61,900
..	3,02,257	4,23,228
..	5,04,03,287	5,79,82,045
..	(-) 3,41,384	(-) 2,49,557
..	(-) 5,64,965	(-) 2,04,176

(iii) The particulars of additional investment on the Line Capacity Works and Traffic Facility Works during the year 2012–2013 as compared to the previous year 2011–2012 are furnished below :—

(Net figures in thousands of ₹)

	2011–2012	2012–2013
(1) Capital	51,15,389	54,55,978
(2) D. R. F.	0	(-) 3,08,866
(3) D. F.	2,06,598	2,10,464
(4) Capital Fund	0	0
(5) O. L. W. R.	0	154
Total	53,21,987	53,57,730

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

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

2012–2013	Capital	DRF	DF	Cap. Fund	OLWR	RSF	SRSF	Total
Gauge Conversion	32,87,427	(-) 2,87,207	0	0	0	0	0	30,00,220
Doubling ..	21,06,168	(-) 17,600	0	0	0	0	0	20,88,568
Tfc. Facilities ..	62,383	(-) 4,059	2,10,464	0	154	0	0	2,68,942
Total ..	54,55,978	(-) 3,08,866	2,10,464	0	154	0	0	53,57,730

5. Capital

Statement showing the Capital-at-charge at the end of 31st March 2013 compared with 31st March 2012 is as under. The capital-at-charge of this Railway stood at ₹. 9,15,853 lakhs at the end of 31st March, 2013 as against ₹. 8,00,445 lakhs at the end of 31st March 2012 :—

6. Assets and Liabilities —

(a) Profit and Loss Account for the year 2012–2013 compared with 2011–2012

(Figures in thousands of ₹)

Particulars	2011–2012	2012–2013	Particulars	2011–2012	2012–2013
I. To Working Expenses—			(i) By Earnings —		
A-3 General Superintendence & services..	40,02,406	44,64,258	Gross Traffic Receipts		
B-4 Repairs and Maintenance of Permanent Way and Works.	47,97,367	54,18,599	Passenger Earnings.. .. .	2,56,59,664	2,82,36,108
C-5 Repairs and Maintenance of Motive Power	23,42,330	26,72,157	Other Coaching Earnings	26,95,760	32,00,330
D-6 Repairs and Maintenance of Carriage and Wagons.	62,62,584	70,86,779	Goods Earnings	2,23,40,847	2,53,67,513
E-7 Repairs and Maintenance of Plant and equipment.	30,13,424	32,10,779	Others	53,84,489	34,83,582
F-8 Operating Expenses—Rolling Stock and equipment.	44,39,319	51,78,053	Suspense	1,21,985	94,952
G-9 Operating Expenses—Traffic ..	77,34,701	97,09,003			
H.10 Operating Expenses—Fuel.. ..	1,17,03,242	1,36,37,144	(ii) Miscellaneous receipts including receipts from Surcharge on Passenger Tickets.	27,137	27,322
J.11. Staff Welfare and Amenities.. ..	32,26,937	34,20,146			
K.12 Miscellaneous Working Expenses ..	25,78,719	27,61,900	(iii) Subsidy from General Revenues towards Dividend.	10,17,223	9,87,177
N.12. Suspense	2,23,581	(-) 4,53,733			
L.13. Provident Fund, Pension and other Retirement Benefits.	3,02,257	4,23,228	(iv) Gross Loss.. .. .	12,11,83,003	1,74,37,192
Appropriation to D. R. F.	49,00,500	51,10,000			
Appropriation to Pension Fund	1,34,39,471	1,56,40,000			
II. Payment to Worked Lines.					
III. Miscellaneous Expenditure—					
Survey	6,515	4,533			
Open line works (Revenue)	28,499	23,425			
Audit	1,33,445	1,44,589			
Government Inspection	0	0			
Cost of Railway Board	2,56,386	3,00,842			
Railway Recruitment Board	38,425	82,474			
Miscellaneous charges	0	0			
Total	6,94,30,108	7,88,34,176			
To Gross Loss	1,21,83,002	1,74,37,192			
Payment to Dividend to General Revenue	36,91,208	34,29,009	Total	6,94,30,108	7,88,34,176
Grand Total	1,58,74,211	2,08,66,201	Net Loss	1,58,74,211	2,08,66,201

(b) Statement of Assets and Liabilities as on 31st March 2013, 2012 & 2011 in the form

Liabilities	As on 31st March			Assets As on 31st March
	2011	2012	2013	
1. (a) Investment Financed from—				
(i) Loan Capital Advance by General Exchequer.	6,80,794	8,00,445	9,15,853	1. Cash in Hand ..
(ii) Depreciation Reserve Fund	3,54,285	3,73,170	4,13,287	2. Block Account (Contra item 1)
(iii) Development Fund	1,44,355	1,57,851	1,73,021	3. Funds with Central Government (Contra item 2 & 3)
(iv) Capital Fund	3,56,581	3,56,581	3,56,581	4. Miscellaneous Advance—Sundry Debtors (to be recovered or adjusted).
(v) Open Line Works Revenue	9,219	9,496	9,726	5. Traffic Earnings (yet to be realised at the end of the year).
(vi) Railway Safety Fund	47,060	62,047	80,624	6. Items awaited adjustment with (Department, State Government)
(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	20,41,428	
2. Railway Reserve Fund—				
(i) Depreciation Reserve Fund	1,82,272	2,10,091	2,18,645	
(ii) Railway Revenue Reserve Fund	0	0	0	
(iii) Development Fund	(-1,50,094)	(-1,63,867)	(-1,79,834)	
(iv) Capital Fund	(-3,43,876)	(-3,43,876)	(-3,43,876)	
(v) Pension Fund	(-4,45,225)	(-5,13,625)	(-5,89,018)	
(vi) Railway Safety Fund	(-46,569)	(-61,556)	(-80,132)	
(vii) Special Railway Safety Fund	(-43,732)	(-43,732)	(-43,732)	
	(-8,47,224)	(-9,16,565)	(-10,17,947)	
3. Bank Account (Sundry Creditors)—				
(i) Provident Fund and other funds	87,579	94,679	10,00,004	
(ii) Miscellaneous Deposits	64,322	74,161	68,810	
	1,51,901	1,68,840	1,68,814	
4. Demands Payable (i. e.) liabilities remaining undischarged at the end.	21,185	24,599	27,095	
5. Net Liabilities arising out of inter-departmental transactions.	15,390	18,632	14,652	
Total ..	10,25,882	11,47,432	12,34,042	Total ..

Block Account—

(Figures in lakhs of ₹)

	2011	2012	2013
1. Cash in Hand ..	3,924	10,235	10,307
2. Block Account (Contra item 1)	4,630	18,51,926	20,41,428
3. Funds with Central Government (Contra item 2 & 3)	5,323	-7,47,725	(-8,49,133)
4. Miscellaneous Advance—Sundry Debtors (to be recovered or adjusted).	3,611	28,908	26,546
5. Traffic Earnings (yet to be realised at the end of the year).	2,788	3,821	4,620
6. Items awaited adjustment with (Department, State Government)	252	267	274
Total ..	15,882	1,14,74,432	12,34,042

7. Statement of Capital Assets (Revised)

(Figures in thousands of ₹)

	Capital at charge as on 31st March 2012	Capital at charge as on 31st March 2013
11. New Line Construction ..	1,55,30,404	1,66,84,034
12. Purchase of New line ..	1,31,779	1,31,779
13. Restoration of dismantled line	(-) 89	(-) 89
14. Gauge conversion ..	2,92,18,587	3,25,56,690
15. Doubling ..	1,52,25,624	1,73,35,730
16. Traffic facilities & Yard remodelling	14,85,467	15,47,875
17. Computerisation ..	6,310	6,510
21. Rolling Stock ..	1,06,69,629	1,14,77,590
22. Leased Assets..	27,40,500	60,76,500
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	1,21,130	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 ..	1,99,737	2,10,575
37. Traction Distribution ..	0	296
41. Machinery and Plant ..	2,55,693	3,41,067
42. Workshop including production units	18,23,259	23,53,669
51. Staff Quarters..	5,58,774	5,60,670
52. Amenity for Staff ..	64,985	64,998
53. (i) Passenger Amenities	5,181	6,077
(ii) Other Railway users' Amenities.	(-) 100	(-) 100
62. Investment in Government/Commercial undertaking Public services.	0	0
64. Other specified works ..	2,06,965	3,11,568
71. Suspense ..	12,18,314	12,53,891
Deduct Receipt on Capital Account	10,31,676	10,90,026
Total Capital at charge	8,00,44,537	9,15,62,298

8. The "Revised" Position by the Southern Railway below—

Nature of Fund Accounts	Opening balance as on 1st April 2011
1. Depreciation Reserve Fund.	2,10,09,111
2. Pension Fund	(-) 5,13,62,500

9. The sources of funds for works met during the year

(Figures in thousands of ₹)

	2011-2012	2012-2013
1. Capital (including Transfer of Financial Adjustment)	1,19,65,118	1,15,40,805
2. Depreciation Reserve Fund	30,77,043	51,10,434
3. Development Fund *	13,77,286	15,96,687
4. Railway Safety Fund	14,98,679	18,57,644
5. Special Railway Safety Fund	0	0
6. Open Line Works—Revenue	28,499	23,425
7. Capital Fund ..	0	0
Total	1,79,46,624	2,01,28,996

* Inclusive of Expenditure

(i) Safety Works D.F. IV	1,63,929	1,84,869
(ii) Passenger Amenities	5,97,437	7,31,479

of the funds maintained 2012-2013 is indicated

(Figures in thousands of ₹)

Particulars	2012-2013	2013-2014
1. Depreciation Reserve Fund	3,65,835	51,10,434
2. Pension Fund	1,82,239	2,10,21,534
3. Development Fund	(-) 5,89,018	(-) 5,89,018

in which expenditure on 11-2012 and 2012-2013.

and in thousands of Rupees

	2011-2012	2012-2013
1. Capital (including Transfer of Financial Adjustment)	1,19,65,118	1,15,40,805
2. Depreciation Reserve Fund	30,77,043	51,10,434
3. Development Fund *	13,77,286	15,96,687
4. Railway Safety Fund	14,98,679	18,57,644
5. Special Railway Safety Fund	0	0
6. Open Line Works—Revenue	28,499	23,425
7. Capital Fund ..	0	0
Total	1,79,46,624	2,01,28,996

10. Statement showing the expenditure—Plan head-wise for the year 2012-2013

(Figures in thousands of ₹)

Sl. No.	Plan Head	Capital		DRF		DF		Capital Fund		R.S.F.		S.R.S.F.		OLWR		Total	
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1.	New Lines (Construction)	Gross 11,27,630	26,000	-	-	-	-	-	-	-	-	-	-	-	-	11,27,630	26,000
(11)		Credit 3,461	-	9,288	-	-	-	-	-	-	-	-	-	-	-	12,749	-
		Net 11,24,169	26,000	-9,288	-	-	-	-	-	-	-	-	-	-	-	11,14,881	26,000
2.	Purchase New Lines	Gross -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(12)		Credit -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.	Gauge Conversion	Gross 33,32,441	5,661	-	-	-	-	-	-	-	-	-	-	-	-	33,32,441	5,661
(14)		Credit 50,675	-	2,87,207	-	-	-	-	-	-	-	-	-	-	-	3,37,882	-
		Net 32,81,766	5,661	(-2,87,207)	-	-	-	-	-	-	-	-	-	-	-	29,94,559	5,661
4.	Doubling	Gross 20,25,161	84,946	-	-	-	-	-	-	-	-	-	-	-	-	20,25,161	84,946
(15)		Credit 3,939	-	17,600	-	-	-	-	-	-	-	-	-	-	-	21,539	-
		Net 20,21,222	84,946	-17,600	-	-	-	-	-	-	-	-	-	-	-	2,00,03,622	84,946
5.	Traffic Facilities	Gross 60,940	1,468	-	2,08,166	2,740	-	-	-	-	-	-	-	154	-	2,69,260	4,208
(16)		Credit 25	-	4,059	-	442	-	-	-	-	-	-	-	-	-	4,526	-
		Net 60,915	1,468	(-4,059)	-	2,07,724	2,740	-	-	-	-	-	-	154	-	2,64,734	4,208
6.	Computerisation	Gross -	-	8,342	-	61,84	-	-	-	-	-	-	-	5,848	-	20,374	-
(17)		Credit -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net -	-	8,342	-	61,84	-	-	-	-	-	-	-	5,848	-	20,374	-
7.	Railway Research Works	Gross -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(18)		Credit -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8.	Rolling Stock	Gross 807962	-	1868860	-	145501	-	-	-	-	-	-	-	-	-	2691323	-
(21)		Credit -	-	121220	-	-	-	-	-	-	-	-	-	-	-	121220	-
		Net 807962	-	1747640	-	145501	-	-	-	-	-	-	-	-	-	2570103	-
(i)	Locomotives	Gross 72107	-	740937	-	-	-	-	-	-	-	-	-	-	-	813044	-
		Credit -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net 72107	-	740937	-	-	-	-	-	-	-	-	-	-	-	813044	-
(ii)	Loco Spares	Gross 99552	-	92557	-	-	-	-	-	-	-	-	-	-	-	192109	-
		Credit -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net 99552	-	92557	-	-	-	-	-	-	-	-	-	-	-	192109	-
(iii)	Carriages	Gross 573219	-	846583	-	11508	-	-	-	-	-	-	-	-	-	1431310	-
		Credit -	-	13564	-	-	-	-	-	-	-	-	-	-	-	133564	-
		Net 573219	-	833019	-	11508	-	-	-	-	-	-	-	-	-	1417646	-
(iv)	Wagons	Gross 59709	-	187840	-	-	-	-	-	-	-	-	-	-	-	247549	-
		Credit -	-	107656	-	-	-	-	-	-	-	-	-	-	-	107656	-
		Net 59709	-	80184	-	-	-	-	-	-	-	-	-	-	-	139893	-
(v)	Rail-cum-road service.	Gross -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Credit -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(vi)	Others	Gross 1366	-	45	-	2993	-	-	-	-	-	-	-	-	-	4404	-
		Credit -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net 1366	-	45	-	2993	-	-	-	-	-	-	-	-	-	4404	-
(vii)	Track Machine	Gross 2009	-	898	-	-	-	-	-	-	-	-	-	-	-	2907	-
		Credit -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net 2009	-	898	-	-	-	-	-	-	-	-	-	-	-	2907	-
9.	LA-LC TO IRFC, ETC.	Gross 3336000	-	-	-	-	-	-	-	-	-	-	-	-	-	3336000	-
(22)		Credit -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net 3336000	-	-	-	-	-	-	-	-	-	-	-	-	-	3336000	-
10.	RD-SFT-UN-MAN	Gross -	-	-	-	-	-	-	373047	-	-	-	-	-	-	373047	-
(29)		Credit -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Net -	-	-	-	-	-	-	373047	-	-	-	-	-	-	373047	-
11.	RD-SFT-OB/UB	Gross -	-	-	-	-	-	-	1488501	38	-	-	-	-	-	1488501	-
(30)		Credit -	-	-	-	-	-	-	3942	-	-	-	-	-	-	3942	-
		Net -	-	-	-	-	-	-	1484559	38	-	-	-	-	-	1484559	-

Statement showing the expenditure—Plan head-wise for the year 2012-2013-

Sl. No.	Plan Head	Capital		DRF		D F		Capital Fund		R.S.F.		
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
12.	Track Renewals (31)	Gross	-	-	3463494	356	-	-	-	-	-	-
		Credit	-	-	841952	-	-	-	-	-	-	-
		Net	-	-	2621542	356	-	-	-	-	-	-
13.	Bridge Works (32)	Gross	-	-	168086	-	3750	-	-	-	-	-
		Credit	-	-	572	-	-	-	-	-	-	-
		Net	-	-	167514	-	3750	-	-	-	-	-
14.	Signalling and Telecommunication (33)	Gross	-	-	221240	-	240356	-	-	-	-	-
		Credit	-	-	3630	-	3963	-	-	-	-	-
		Net	-	-	217610	-	236393	-	-	-	-	-
15.	Taking of lines from P. & T. (34)	Gross	-	-	-	-	-	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-
16.	Electrification Project (35)	Gross	-	-	-	-	-	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-
17.	Other Electrical Works (36)	Gross	10838	-	18524	-	5745	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-
		Net	10838	-	18524	-	5745	-	-	-	-	-
18.	Other Electrical Works (36)	Gross	296	-	78503	-	25910	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-
		Net	296	-	78503	-	25910	-	-	-	-	-
19.	Machinery & Plant (41)	Gross	85374	-	292943	-	21473	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-
		Net	85374	-	292943	-	21473	-	-	-	-	-
20.	Workshops (42)	Gross	530410	-	75740	-	170476	56	-	-	-	-
		Credit	231	-	4516	-	-1239	-	-	-	-	-
		Net	530179	-	71224	-	171715	56	-	-	-	-
21.	Staff Quarters (51)	Gross	1896	-	1,02,599	5	-	-	-	-	-	-
		Credit	-	-	2,919	-	-	-	-	-	-	-
		Net	1896	-	99,680	5	-	-	-	-	-	-
22.	Amenities for Staff (52)	Gross	13	-	33,300	-	1,10,605	-	-	-	-	-
		Credit	-	-	236	-	-	-	-	-	-	-
		Net	13	-	33,064	-	1,10,605	-	-	-	-	-
23.	(i) Passenger Amenities (53)	Gross	-	896	68,635	-	6,61,857	92	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-
		Net	-	896	68,635	-	6,61,857	92	-	-	-	-
24.	(ii) Other Railway Users Amenities (53)	Gross	-	-	-	-	-	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-
25.	Investment in Govt. commercial under taking public under takings (62)	Gross	-	-	-	-	-	-	-	-	-	-
		Credit	-	-	-	-	-	-	-	-	-	-
		Net	-	-	-	-	-	-	-	-	-	-
26.	Other specified Works (64)	Gross	1,02,603	-	3,499	-	1,27,671	271	-	-	-	-
		Credit	20	-	33	-	-	-	-	-	-	-
		Net	1,02,583	-	3,466	-	1,27,671	271	-	-	-	-
27.	Stores Suspense	Gross	1,06,61,175	-	-	-	-	-	-	-	-	-
		Credit	1,07,48,109	-	-	-	-	-	-	-	-	-
		Net	-86,934	-	-	-	-	-	-	-	-	-
28.	Manufacture Suspense	Gross	79,83,847	-	-	-	-	-	-	-	-	-
		Credit	78,60,665	-	-	-	-	-	-	-	-	-
		Net	1,23,182	-	-	-	-	-	-	-	-	-
29.	Miscellaneous Advance	Gross	3,690	-	-	-	-	-	-	-	-	-
		Credit	4,361	-	-	-	-	-	-	-	-	-
		Net	-671	-	-	-	-	-	-	-	-	-
30.	Grand Total	Gross	3,00,70,276	1,18,971	64,03,765	361	15,96,694	3,159	-	18,61,548	38	-
		Credit	1,86,71,486	-	12,93,692	-	3,166	-	-	3,942	-	-
		Net	1,39,98,790	1,18,971	51,10,073	361	15,93,528	3,159	-	18,57,606	38	-

cld.)

(Figures in thousands of ₹)

OLWR			Total	
Charged	Voted	Charged	Voted	Charged
(4)	(15)	(16)	(17)	(18)
-	-	-	3463494	356
-	-	-	841952	-
-	-	-	2621542	356
-	-	-	171836	-
-	-	-	572	-
-	-	-	171264	-
-	-	-	461596	-
-	-	-	7593	-
-	-	-	454003	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	918	-	36025	-
-	918	-	36025	-
-	-	-	104709	-
-	-	-	104709	-
-	12826	-	412616	-
-	12826	-	412616	-
-	372	-	776998	56
-	-	-	3508	-
-	372	-	773490	56
-	-	-	1,04,495	5
-	-	-	2,919	-
-	-	-	1,01,576	5
-	-	-	1,43,918	-
-	-	-	236	-
-	-	-	1,43,682	-
-	-	-	7,30,492	988
-	-	-	7,30,492	988
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	3,307	-	2,37,080	271
-	-	-	513	-
-	3,307	-	2,36,567	271
-	-	-	1,06,61,175	-
-	-	-	1,07,48,109	-
-	-	-	-86,934	-
-	-	-	79,83,847	-
-	-	-	78,60,665	-
-	-	-	1,23,182	-
-	-	-	3,690	-
-	-	-	4,361	-
-	-	-	-671	-
-	23,425	-	3,99,55,708	1,22,529
-	84	-	1,99,72,286	-
-	23,425	-	1,99,83,422	1,22,529

Statement showing the break-up- of expenditure under the plan head "Rolling Stock" for the year 2012-2013.
21. Rolling Stock—

(Figures in thousands of ₹)

Sl. No.	Plan Head	Capital		DRF		DF		Capital Fund		RSF		SRSF		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)
(i) Locomotives	B.O.Gr. & Net.	1,36,729	-	8,38,188	-	-	-	-	-	-	-	-	-	-	-	9,74,917	-
	O.B.O.Gross	-64,622	-	-97,251	-	-	-	-	-	-	-	-	-	-	-	-1,61,873	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-64,622	-	-97,251	-	-	-	-	-	-	-	-	-	-	-	-1,61,873	-
(ii) Loco spares	B.O.Gr. & Net.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,92,109	-
	O.B.O.Gross	99,552	-	92,557	-	-	-	-	-	-	-	-	-	-	-	-	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	99,552	-	92,557	-	-	-	-	-	-	-	-	-	-	-	1,92,109	-
(iii) Carriages	B.O.Gr. & Net.	6,82,696	-	7,33,277	-	11,508	-	-	-	-	-	-	-	-	-	14,27,481	-
	O.B.O.Gross	(-1,09,477)	-	1,13,306	-	-	-	-	-	-	-	-	-	-	-	3,829	-
	Credit	-	-	13,564	-	-	-	-	-	-	-	-	-	-	-	13,564	-
	Net	(-1,09,477)	-	99,742	-	-	-	-	-	-	-	-	-	-	-	-9,735	-
(iv) Wagons	B.O.Gr. & Net.	5,975	-	2,38,727	-	-	-	-	-	-	-	-	-	-	-	2,44,702	-
	O.B.O.Gross	53,734	-	-50,887	-	-	-	-	-	-	-	-	-	-	-	2,847	-
	Credit	-	-	1,07,656	-	-	-	-	-	-	-	-	-	-	-	1,07,656	-
	Net	53,734	-	(-1,58,543)	-	-	-	-	-	-	-	-	-	-	-	-1,04,809	-
(v) Rail-cum-Road Service.	B.O.Gr. & Net.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	O.B.O.Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(vi) Others	B.O.Gr. & Net.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	O.B.O.Gross	1,366	-	45	-	2,993	-	-	-	-	-	-	-	-	-	4,404	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	1,366	-	45	-	2,993	-	-	-	-	-	-	-	-	-	4,404	-
(vii) Track Machine	B.O.Gr. & Net.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	O.B.O.Gross	2,009	-	898	-	-	-	-	-	-	-	-	-	-	-	2,907	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	2,009	-	898	-	-	-	-	-	-	-	-	-	-	-	2,907	-
Total	B.O.Gr. & Net.	8,25,400	-	18,10,192	-	11,508	-	-	-	-	-	-	-	-	-	26,47,100	-
	O.B.O.Gross	-17,438	-	58,668	-	2,993	-	-	-	-	-	-	-	-	-	44,223	-
	Credit	-	-	1,21,220	-	-	-	-	-	-	-	-	-	-	-	1,21,220	-
	Net	-17,438	-	(-62,552)	-	2,993	-	-	-	-	-	-	-	-	-	-76,997	-
Rolling Stock Grand Total	Gross	8,07,962	-	18,68,860	-	14,501	-	-	-	-	-	-	-	-	-	26,91,323	-
	Credit	-	-	1,21,220	-	-	-	-	-	-	-	-	-	-	-	1,21,220	-
	Net	8,07,962	-	17,47,640	-	14,501	-	-	-	-	-	-	-	-	-	25,70,103	-

Statement showing the break-up of Expenditure under the Plan Head " Machinery and Plant " for the year 2012-2013.

(Figures in thousands of ₹)

Sl. No.	Plan Head	Capital		DRF		DF		Capital Fund		R.S.F.		S.R.S.F.		OLWR		Total	
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
MACHINERY AND PLANT																	
(i) Mechanical	Gross	82,087	-	2,37,865	-	9,366	-	-	-	-	-	-	-	10,129	-	3,39,447	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	82,087	-	2,37,865	-	9,366	-	-	-	-	-	-	-	10,129	-	3,39,447	-
(ii) Electrical	Gross	573	-	14,936	-	569	-	-	-	-	-	-	-	1,039	-	17,117	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	573	-	14,936	-	569	-	-	-	-	-	-	-	1,039	-	17,117	-
(iii) Civil Engineering	Gross	71	-	9,307	-	-	-	-	-	-	-	-	-	516	-	9,894	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	71	-	9,307	-	-	-	-	-	-	-	-	-	516	-	9,894	-
(iv) General Stores	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Statement showing the break-up of Expenditure under the Plan Head "Machinery and Plant"

Sl. No.	Plan Head	Capital		DRF		DF		Capital Fund		R.S.F.		
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
(v) Accounts	Gross Credit Net	-	-	-	-	-	-	-	-	-	-	-
(vi) Signal and Telecommunication	Gross Credit Net	-	-	3,328	-	-	-	-	-	-	-	-
(vii) Medical	Gross Credit Net	-	-	19,162	-	10,761	-	-	-	-	-	-
(viii) Security	Gross Credit Net	-	-	-	-	-	-	-	-	-	-	-
(ix) Operating	Gross Credit Net	-	-	-	-	-	-	-	-	-	-	-
(x) General	Gross Credit Net	2,643	-	8,345	-	777	-	-	-	-	-	-
Total Machinery and Plant	Gross Credit Net	85,374	-	2,92,943	-	21,473	-	-	-	-	-	-

11. Correction of Expenditure of Performance

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

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

Sl. No.	Particulars	2010-11	2011-12	2012-13	Sl. No.	Particulars
1.	Expenditure actually booked	95,856.71	94,602.40	1,04,822.45	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.	-56,71.52	-3,639.78	11,868.98	(i)	Expenditure on Locomotive Workshop Repairs.
3.	Locomotives :				(ii)	Proportionate amount of extraneous factors.
I. Steam—					(iii)	Debits raised by Central DLW, etc.
(i)	Expenditure on Locomotives Workshop Repairs.	140.42	155.36	45.89	(iv)	Comparable expenditure Minus item (ii) Minus item (iii)
(ii)	Proportionate amount of extraneous factors.	-8.31	-5.98	5.20	(v)	Index of comparable expenditure (Per cent).
(iii)	Debits raised by South Central Railway for work done.	148.73	161.34	40.69	(vi)	(a) Performance measured in terms of standard 1st Class or units repaired—
(iv)	Comparable expenditure (Item [(i) minus item (ii) minus (iii)]).	96.33	104.50	27.36		Broad Gauge
(v)	Index of Comparable expenditure (per cent).	..	..	..		Metre Gauge
(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	1.00		Broad Gauge
	Narrow Gauge	..	..	..		Metre Gauge
(b)	Performance measured per million equated engine kilometres—					Narrow Gauge
	Broad Gauge	..	..	..	III. Electrical—	
	Metre Gauge	..	0.00	22.22	(i)	Expenditure on Locomotive workshop Repairs
	Narrow Gauge	..	..	..	(ii)	Proportionate amount of extraneous factors

year 2012-2013—(Concl.)

Sl. No.	Plan Head	OLWR		Total	
		Voted	Charged	Voted	Charged
(1)	(2)	(15)	(16)	(17)	(18)
(v) Accounts	Gross Credit Net	-	-	-	-
(vi) Signal and Telecommunication	Gross Credit Net	288	-	3,616	-
(vii) Medical	Gross Credit Net	-	-	29,923	-
(viii) Security	Gross Credit Net	-	-	-	-
(ix) Operating	Gross Credit Net	-	-	-	-
(x) General	Gross Credit Net	854	-	12,619	-
Total Machinery and Plant	Gross Credit Net	12,826	-	4,12,616	-

(Figures in lakhs of ₹)

2010-11	2011-12	2012-13
4,326.63	3,247.33	4,195.39
-255.99	-124.94	475.04
420.63	101.10	500.16
4,161.99	3,271.17	3,220.19
141.98	111.59	77.37
56.00	44.00	59.00
2.00	0.00	1.00
0.41	0.31	0.43
1.61	0.00	3.07
6,914.51	6,771.43	7,325.71
-409.11	145.11	829.49
7,323.62	6,626.00	6,496.22

Sl. No.	Particulars	2010-11	2011-12	2012-13
(v)	Index of comparable expenditure (Per cent).	100.00	90.47	88.70
(vi)(a)	Performance measured in terms of standard 1st Class or units repaired—			
	Broad Gauge	320.04	354.27	376.46
	Metre Gauge	..	..	..
	Narrow Gauge	..	..	..
(b)	Performance measured per million equated engine kilometres—			
	Broad Gauge	1.80	1.80	1.82
	Metre Gauge	..	..	..
	Narrow Gauge	..	..	..
(c)	Performance measured per million Gross tonne kilometres—			
	Broad Gauge	0.007	0.007	0.007
	Metre Gauge	0.000	#DIV/0!	0.000
	Narrow Gauge	..	..	..
IV. Carriages—				
(i)	Expenditure on Carriage Workshop Repairs.	23,253.05	22,567.67	27,651.11
(ii)	Proportionate amount of extraneous factors.	-1,375.80	484.69	3,130.92
(iii)	Comparable expenditure [(Item (i) minus Item (ii) minus (iii).]	24,628.85	22,082.98	24,520.19
(iv)	Index of Comparable expenditure (Per cent)	100.00	89.66	99.56
(v) (a)	Performance measured in terms of number repaired.			
(1)	Passenger Carriages (in terms of four-wheelers)			
	Broad Gauge	3,934.00	2,949.00	2,872.00
	Metre Gauge	48.00	8.00	28.00
	Narrow Gauge	..	..	..
(2)	Other Coaching Vehicles			
	Broad Gauge	212.00	205.00	606.00
	Metre Gauge	4.00	0.00	0.00
	Narrow Gauge	..	..	..
(3)	Performance of passenger carriage measured per million passenger train kilometres—			
	Broad Gauge	89.89	64.55	60.48
	Metre Gauge	93.39	20.00	189.19
	Narrow Gauge	..	..	..
(4)	Performance of other coaching vehicles measured per million vehicle kilometres—			
	Broad Gauge	1.50	1.35	4.30
(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	76.83	87.37
V. Wagons—				
(i)	Expenditure on Wagon work - shop Repairs.	7,209.72	3,743.28	3,037.16
(ii)	Proportionate amount of extraneous factors.	-426.57	80.39	343.90
(iii)	Debits raised by other Railways for POH of S. Rly. Wagons.	6,230.00	3,110.00	2,926.94

Sl. No.	Particulars	2010-11	2011-12	2012-13
(iv)	Comparable expenditure (Item (i) Minus item (ii) Minus (iii)).	1,406.29	522.89	-233.68
(v)	Index of comparable expenditure (Per cent).	100.00	39.32	-16.62
(vi) (a)	Performance measured in terms of number repaired			
	Broad Gauge	180.00	130.00	92.00
	Metre Gauge	0.00	0.00	0.00
	Narrow Gauge	..	..	..
(b)	Performance measured per million wagon Kms. (in terms of four wheelers)—			
	Broad Gauge	0.33	0.23	0.18***
	Metre Gauge	0.00	0.00	0.00
	Narrow Gauge	..	..	..
(c)	Performance measured per million net tonne kilometres—			
	Broad Gauge	0.011	0.007	0.005
	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).	100.00	84.00	54.49
(vii)	Expenditure on other than loco carriage and wagon workshop repairs as booked.	54,012.38	58,117.33	62,567.19
(viii)	Proportionate amount of element of extraneous factors.	-3,195.73	1,248.19	7,084.44
(ix)	Comparable expenditure (Item VII—Item VIII)	57,208.11	56,869.14	55,482.75
(x)	Index of comparable expenditure (Per cent).	100.00	99.41	96.98
(xi)	Gross tonne kilometres (All traction goods and proportionate of mixed plus passenger EMU and Rail Cars) (in millions).	85,930	89,263	88,718
(xii)	Index of Performance	100.00	103.88	103.24

*** In terms of 8 wheelers

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

(Figures in lakhs of ₹)

Particulars	Actuals 2010-10	Actuals 2011-2012	Actuals 2012-2013
1. Gross expenditure under Grant No. 8.	41,719.49	45,648.91	53,000.23
2. Extraneous items to be excluded.—			
(a) Expenditure on Electrical services.	8,015.17	8,874.61	10,155.42
(b) Effect of Additional D. A. & I. R.	0.00	1,469.83	3,403.98
(c) Effect of PLB	0.00	14.17	34.01
(d) Increase in Cost of Stores	0.00	168.96	1,103.73
Total Item II	8,015.17	10,527.57	14,697.14
3. Comparable expenditure (Item 1 minus Item II).	33,704.32	35,121.34	38,303.09
4. Index of comparable expenditure (Per cent)	100.00	104.20	113.64
5. Performance measured in terms of Train kilometres.	67,351.00	69,690.00	70,750.00
6. Index of performance (per cent)	100.00	103.47	105.05

Grant No. 9—Operating Expenses—Traffic—

(Figures in lakhs of ₹)

Particulars	Actuals 2010-11	Actuals 2011-2012	Actuals 2012-2013
1. Gross expenditure under Grant No. 9.	82,930.41	77,393.86	97,132.07
2. Extraneous items to be excluded.—			
(a) Effect of Additional D.A.&I.R.	0.00	3,524.15	7,293.19
(b) Effect of PLB	0.00	33.34	29.45
(c) Effect of IRCA & IRFC transaction			
I. R. C. A.	0.00	-12,351.64	-5,337.21
I. R. F. C.	0.00	4,714.00	10,266.00
Total Item II ..	0.00	-4,080.15	12,251.43
3. Comparable expenditure (Item I, minus Item II)	82,930.41	81,474.01	84,880.64
4. Index of comparable expenditure (Per cent).	100.00	98.24	102.35
5. Performance measured in terms of Train kilometres	67,351.00	69,690.00	70,750.00
6. Index of performance (Per cent).	100.00	103.47	105.05

Grant No. 10—Operating Expenses—Fuel

(Figures in lakhs of ₹)

Particulars	2010-11	2011-12	2012-13
I. Gross expenditure under Grant No.10—Operating Expenses—Fuel.	1,02,932.91	1,17,295.22	1,36,604.48
II. Extraneous factors contributing to increase/decrease in Gross expenditure —			
(1) Increase in rates of D. A. and I. R.	..	-91.99	47.01
(2) Annual scale increase, Operating of posts and	..	- 4.73	- 10.81
(3) Increase in other allowances restructuring of cadre.	..	124.42	25.60

(Figures in lakhs of ₹)

Particulars	9-10	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.	..	- 487.54	- 13.11
(7) Increase in prime cost of Coal.	..	-40.14	12.53
(8) Increase in prime cost of Diesel.	..	7,031.12	12,128.69
(9) Increase in average cost and sales tax on coal (due to revision of cess rate)	..	-0.95	36.12
(10) Increase in average cost and Sales tax on H. S. D. oil (due to change of supply pattern)	..	-4,448.08	- 1,618.61
(11) Revision of Electricity charges including penalty levy.	..	4,205.41	14,649.34
(12) Throw forward debit of K. P. Dock.	..	..	..
(13) Increase in average rate of H. S. D. oil.	..	..	..
(14) Reduction in average rate due to change in pattern.	..	..	..
(15) Arrears payment for charges on Bengal Railway Borne coal.	..	..	..
Total II	..	6,288.41	25,256.77
III. Comparable Expenditure (Item I—Item II).	1,02,911.11	1,11,006.81	1,11,347.71
IV. Index of Comparable expenditure.	100.00	107.84	108.18
V. Performance measured in terms of Gross Tonne Kilometre of all tractions (in Millions).	5,930	89,263	88,718
VI. Index of Performance	100.00	103.88	103.24



IV. नए निर्माण एवं इंजीनियरी कार्य NEW CONSTRUCTION AND ENGINEERING WORKS

New Lines Opened

Sl. No.	Divn.	Name of Work	Estimate Cost ₹ in Lakhs	Remarks
a) New lines opened during the year 2011-2012				
1.	MAS	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	Nil		
5.	TPJ	Nil		
6.	MDU	Nil		
7.	CN/CNRS	Nil		
8.	CE/CN/MS	Nil		
9.	MTP	Nil		

2. New Lines Under Construction

Sl. No.	Division	Name of Works	Cost ₹ in crores	% of over all progress as on 2012-13	Remarks
1.	MAS	Nil			
2.	SA	Nil			
3.	PGT	Nil			
4.	TVC	Nil			
5.	TPJ	Nil			
6.	MDU	Nil			
7.	CE/CN/ERS	Angamali – Sabarimala new B. G. Railway line.	550	6%	AFK – Kalady section in progress
		Guruvayur – Tirunavaya new B. G. Rly. line.	137.71	1%	GUV yard in progress
8.	CE/CN/MS	Karur–Salem New line (85 KMS.)	775.36	99%	Estimate for ₹ 229.88 crores sanctioned by Board. Revised estimate for ₹ 1052.68 crore is vetted by finance & will be submitted shortly. All pending court cases regarding land acquisition were disposed & Railways have taken physical possession of required land except at a few locations of ROB's. Extra compensation court cases - out of 1300 cases, 240 cases finalised and the balance are pending in various courts. At some locations, completion of ROB's is held up for want of land. Section was inspected by CRS on 25th & 27th of February and his authorisation has been received with 85 kmph. Section is ready for opening. On fixing date by Board, train services can be commenced.
		2. Tindivanam-Gingee-Tiruvannamalai. (70 km.) New line (P. B. No. 4)	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 has asked for depositing ₹ 11.51 cr. towards land compensation and the same has been deposited. After getting adequate land, mega tenders will be called. In the meantime, agency fixed for construction of 8 major bridges. Out of 8 Nos.. 4 completed & 4 in progress.

Sl. No.	Division	Name of Works	Cost ₹ in crores	% of over all progress as on 2012-13	Remarks
New Lines Under Construction—Contd.					
3.	Tindivanam—Nagari (179.20 km.)—Newline. (P. B. No. 5).	582.83	10%	Detail Board No.200 Walaja for earl work for and b awarde and the section 3 LUS Br. at Ranipe land in to be v mega, acquis has be Govern crs. Tindiv Railwa payme budget	nate sanctioned by Railway 582.83 crores vide letter L/SR/TN dated 21/7/2008. In - Ranipet section, contracts bridge works awarded. Earth rity of 1,70,000 cum completed are in progress. Works major bridges 17 minor bridges completed. In Ranipet-Arcot work for forming is in progress. inor bridges completed. Major nearing completion. Karai, Arcot land taken over, Part of r Village, High Court stay order For remaining section calling is will be planned after land administrative approval for land ived in November 2011. State as asked for depositing ₹ 57.62 s land compensation in illupuram & Vellore, for which osited ₹ 42.73 Crs. Balance ould not be made for want of
4.	Attipattu—Puttur (88.3 kms.) (P. B. No. 6)	527.00	1%	Work 2008- The d sanctio W-1/N Final Origina 50.50% (Minist recent expect advise Land r Andhr Regan execut Board should plan s area st for acc for lan Thoug tender decis	ed in Pink Book in the year a cost of ₹ 446.87 crores. estimate for ₹ 527.37 Crs. Railway Board vide No.2002/ dated 7-9-2011. on Survey work completed. project was to be taken up under sharing with Ennore Port Trust (shipping). However, EPT has ised that they would not be e realised. Board have been e a decision in the matter. ents furnished to Tamilnadu and desh State Governments. Issue of entrusting the physical the project to RVNL, Railway now advised that this project with Southern Railway. Land e for 22 villages in Tamilnadu to District Collector at Tiruvallur he land acquired. Budget Grant ent is not available. iled estimate is sanctioned, not called for want of Board's
5.	Erode—Palani (91.05 kms.)	603.22	1%	New v 2008- (estima and su Physic	cluded in Pink Book in the year ost of ₹ 288.87 crores. Detailed 603 crores has been prepared to Railway Board on 13/8/2010. cution will be taken up after

Sl. No.	Division	Name of Works	Cost ₹ in crores	% of over all progress as on 2012-13	Remarks
New Lines Under Construction—Contd.					
					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. and again reconfirmed by Board vide letter No. 2007/W-1/NL/SR/EP dt.5/2/2013. Government of Tamil Nadu is again & again requesting for defreezing the project and to start work early. New work included in Pink Book in the year 2008-09 at a cost of ₹ 523.52 crores & Revised to ₹ 800 crores during 2012-13. Final location survey is on hand. Part detailed estimate between New Puduchery and Varakalapattu (26.40 km. has been submitted to Board on 21-2-2012 and queries have also been replied). Estimate is not yet sanctioned. Survey for the balance portion is on hand Survey involves soil investigations and strengthening measures in view of Coastal region and poor soil conditions, delay is occurring. The Government of Puducherry is yet to approve the alignment. Railway Board recently has asked to rework the ROR for the detailed estimate cost. As the (179.28 kms.) (P. B. No. 8) 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
6.	Chennai-Cuddalore (via) Mahabalipuram (179.28 kms). (P. B. No. 8).		800.00	1%	

Sl. No.	Division	Name of Works	Cost ₹ in crores	% of over all progress as on 2012-13.	Remarks
New Lines Under Construction—Concd.					
		7. Madurai-Tuticorin (via Aruppukkottai (143.5 km.) (P. B. No. 9)	603.43	2.00%	Maha comp been estim New Gove to cc of cc cost No.V Worl Final secti is gi up in Boar am. Striking out the alignment is 186.425 Kms. of alignment has tender are not called as detailed ; not been sanctioned. cluded in the year 2011-12. State of Tamil nadu has been requested their consent to provide land free also share 50% of the balance project vide this office letter /203/cn dt.31-12-2010. ng in the High priority list of Board. on survey is on hand For 2 block Tuticorin (Millavittan) end, priority view of new power plants coming ea. Part detailed estimate sent to arch 2013.
		9. MTP 1. Extension of MRTS Phase II from Velacherry to St. Thomas Mount – 5 Kms.	495.74	34.55%	New I we have a dis is in sanctioned in 2006-07. Physical menced in 2008-09. The work held up for various court case for if 500 m. Remaining distance work ss. atio 1:2 i.e. ₹ 16524.67 lakhs by
* Cost of the work is shared by Railways and Govt. of Tamil Nadu in Railways and ₹ 33049 lakhs by Govt. of Tamil Nadu.					

(I) (b) New Lines sanctioned work during 2012-13.

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

3. Surveys

Sl. No.	Name of Work	Cost ₹ in lakhs	Remarks
(a) SURVEYS SANCTIONED DURING THE YEAR 2012-13			
1	Updating survey for new line between Nanjangud Town and Nilambur Road.	35.70	Sanctioned vide under item No.2
2	Updating survey for doubling work between Trivandrum and Kanniyakumari.	0.01	Sanctioned vide under item No.2
3	Updating survey for new line between Chennai and Sriperumbudur via Guindy, Poonamallee.	5.85	Sanctioned vide under item No.3

Sl. No.	Name of Work	Cost ₹ in lakhs	Remarks
Survey—Contd.			
4	Reconnaissance Engineering cum Traffic survey for a new line between Angadippuram and Ottapalam.	18.15	Sanctioned <i>vide</i> Demands for Grants - Railways, 2012-13 under item No.31.
5	Updating survey for new line between Kollengode and Trichur.	8.85	Sanctioned <i>vide</i> Demands for Grants - Railways, 2012-13 under item No.32.
6	Reconnaissance Engineering cum Traffic survey for a new line between Thanjavur and Pudukkottai via Gandarvakkottai.	9.75	Sanctioned <i>vide</i> Demands for Grants - Railways, 2012-13 under item No.33.
7	Reconnaissance Engineering cum Traffic survey for provision of alignment of Balaramapuram station with Vizhinjam Port.	4.20	Sanctioned <i>vide</i> Demands for Grants - Railways, 2012-13 under item No.34.
8	Reconnaissance Engineering cum Traffic survey for a new line of Kannur-Kannur Airport line.	3.75	Sanctioned <i>vide</i> Demands for Grants - Railways, 2012-13 under item No.35.
9	Updating survey for new line between Idappalli and Guruvayur.	20.31	Sanctioned <i>vide</i> Demands for Grants - Railways, 2012-13 under item No.36.
10	Updating survey for new line between Thalassery and Mysore.	44.70	Sanctioned <i>vide</i> Demands for Grants - Railways, 2012-13 under item No.37.
11	Reconnaissance Engineering cum Traffic survey for new line between Kanchipuram-Tiruvannamalai-Katpadi.	30.03	Sanctioned <i>vide</i> Demands for Grants - Railways, 2012-13 under item No.38.
12	Reconnaissance Engineering cum Traffic survey for new line between Kumbakonam and Vridhachalam via Jayankondam and Andimadam.	10.05	Sanctioned <i>vide</i> Demands for Grants - Railways, 2012-13 under item No.39.
13	Updating survey for doubling and electrification of Madurai, Kanniyakumari via Tirunelveli section.	0.01	Sanctioned <i>vide</i> Demands for Grants - Railways, 2012-13 under item No.40.
14	Reconnaissance Engineering cum Traffic survey for new line between Attippattu and Ennore Sea Port.	1	Sanctioned <i>vide</i> Demands for Grants - Railways, 2012-13 under item No.41.

(b) SURVEY IN PROGRESS DURING THE YEAR 2012-13

1.	Updating survey for doubling work between Trivandrum and Kanniyakumari.	0.01	Abstract estimate vetted by finance at ₹ 617.47 Cr IRR is under finance vetting.
2.	Updating survey for doubling work new line between Chennai and Sriperumbudur via Guindy, Poonamallee.	5.85	Abstract estimate is sent to finance for vetting at ₹ 915.10 cr.
3.	Reconnaissance Engineering cum Traffic survey for a new line between Angadippuram and Ottapalam.	18.15	LOA issued and survey is in progress.
4.	Reconnaissance Engineering cum Traffic for a new line between Thanjavur and Pudukkottai via Gandarvakkottai.	9.75	LOA issued and survey is in progress.
5.	Reconnaissance Engineering cum Traffic survey for provision of alignment of Balaramapuram station with Vizhinjam Port.	4.20	Survey/Execution of construction work done by Port Authorities and advise sent to Board for closure.

Sl. No.	Name of Work	Cost ₹ in lakhs	Remarks
Survey—Condd.			
c) SURVEY COMPLETED DURING THE YEAR 2012-13			
6.	Updating survey for new line between Idappalli and Guruvayur.	20.31	LOA issued and s in progress.
7.	Reconnaissance Engineering-cum-Traffic survey for new line between Kanchipuram-Tiruvannamalai-Katpadi.	30.03	LOA issued and s in progress.
8.	Reconnaissance Engineering-cum-Traffic survey for new line between Kumbakkonam and Vridhachalam via Jayankondam and Andimadam.	10.05	LOA issued and s in progress.
9.	Updating survey for doubling and electrification of Madurai Kanniyakumari via Tirunelveli section.	0.01	Abstract estimate Cr including NCJ to finance for vetting at Rs.1865.60 al facilities Rs.60.04 cr.
10.	Reconnaissance Engineering-cum-Traffic survey for new line between Attippattu and Ennore Sea Port.	1.00	Survey/Executive Authorities and a onstruction work done by Port sent to Board for closure.
1	Updating survey for new line between Nanjangud Town and Nilamur road.	426688.00	Updated survey 24.05.2013. Ra was submitted to Railway Board on board's decision is awaited.
2	Updating survey for new line between Thrissur and Kollengode.	48059.00	Updated survey 26.08.2013. Ra was submitted to Railway Board on board's decision is awaited.
3	Reconnaissance Engineering-cum-Traffic survey for a new line of Kannur-Kannur Airport line.	23723.00	Survey Report 31.01.2013. Board has shelved the project dt.07.08.2013.
4	Updating survey for new line between Thalassery and Mysore via Wayanad & Kodugu.	698772.00	Updated survey 16.05.2013. Ra was submitted to Railway Board on board's decision is awaited.

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/CE/ERS	Nil	
8	CN/CE/ERS	Thiruvapur-Pattukottai Karaikkudi-MG line.	506.72
9	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 (35 km) (P. B. No.1).	13,771	2010-11	-	1,743	1%	Guruvayur Yard work is on progress. Land requirements furnished to Kerala State Government.
2.	Karur - Salem New Line (85 kms) (P. B. No. 2).	77,536	1996 - 97	2013	75,253	99%	Estimate for ₹ 229.88 crores sanctioned by Board. Revised estimate for ₹ 1052.68 cr is vetted by finance & 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. This section was inspected by CRS on 25th, 26th & 27th of February and his authorization has been received with 85 kmph. Section is ready for opening. On fixing date by Board, train services can be commenced.
3.	Angamali - Sabarimala (116 km)	55,000	2008-09	-	1,051	6%	Detailed Estimate for ₹ 1566 cr. sent to Board for sanction. Angamali-Kaladi (7 km) section is targeted for completion in 2012-13. Works are in progress but slowed down due to land acquisition problems.
4.	Tindivanam - Gingee - Tiruvannamalai (70 km) - New line (P. B. No. 4).	22,740	Supp.D. No. 2006-07		4,052	6%	Detailed estimate sanctioned by Railway Board for ₹ 227.40 crores vide 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. After getting adequate land, mega tenders will be called. In the meantime, agency fixed for construction of 8 major bridges. Out of 8 Nos., 4 completed & 4 in progress.
5.	Tindivanam - Nagari (179.20 km) - New line (P. B. No. 5)	58,283	Supp.D.No. 2006-07		14,784	10%	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 21/07/2008. In Walajah Road - Ranipet Section, Contracts for earth work, bridge works awarded. Earthwork for a quantity of 1,70,000 cum

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2013 (₹ in Lakhs)	Ph. Pr.	Remarks
New Lines—Contd.							
6.	Attippattu - Puttur (88.3 kms) (P. B. No. 6)	52,700	2008-09		263		completed and balance are in progress. Works awarded for 2 major bridges 17 minor bridges and the same completed. In Ranipet - Arcot section, earthwork for forming is in progress. 3 LUSs & 2 minor bridges completed. Major Br. at Palar nearing completion. Karai, Ranipet & Arcot land taken over. Part of a land in Veppur village, High Court stay order to be vacated. 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 ₹ 57.62 crs. towards land compensation in Tindivanam, Villupuram & Vellore, for which Railway deposited ₹ 42.73 Cr. Balance payments could not be made for want of budget Grant. 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- I/NL/S/1 dated 07/09/2011. Final Location Survey work completed. Originally the project was to be taken up under 50 : 50 % cost sharing with Ennore Port Trust (Ministry of Shipping). However, EPT has recently advised that they would not be cost sharing the project as the anticipated traffic in the section is not expected to be realised. Board have been advised to take a decision in the matter. Land requirements furnished to Tamilnadu and Andhra Pradesh State Governments. Regarding the issue of entrusting the physical execution of the project to RVNL, Railway Board have now advised that this project should stay with Southern Railway. Land plan schedule for 22 villages in Tamilnadu area submitted to District Collector at Tiruvallur for acquiring the land. Budget Grant for land payment is not available.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
New Lines—Contd.							Though detailed estimate is sanctioned, tenders are not called for want of Board's decision.
7.	Erode - Palani (91.05 kms) (P.B. No.7)	60,322	2008-09		131	1%	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 13/08/2010. 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.08/12/2010 observed that this new line project is not considered necessary from operational point of view and a number of similar projects are not making much progress for want of funds. Accordingly, it was advised to State Government to provide land free of cost and share 50 per cent 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 per cent 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 per cent 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.06/07/2011 and again reconfirmed by Board vide letter No. 2007/W-1/NL/SR/EP dt.05/02/2013. Government of Tamilnadu is again & again requesting for defreezing the project and to start work early. Tenders are not called as detailed estimate has not been sanctioned and project has been frozen by Board.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March, 2013 (₹ in Lakhs)	Phys Progr (%)	Remarks
New Lines—Concl'd.							
8.	Chennai - Cuddalore (via) Mahabalipuram (179.28 kms) (P. B. No. 8)	80,000	2008-09		158	7.00	work included in Pink Book for the year 2008-09 at a cost of ₹23.52 crores & revised to ₹100 crs. during 2012-13. Final location survey is on hand. Detailed Survey in Puducherry State has been completed and Part detailed estimate between New Puducherry and Varakalapattu (140 km) has been submitted to Board on 21/02/2012 and replies have also been replied. Estimate is not yet sanctioned. Survey for the balance portion is on hand. Survey involves soil investigations and strengthening measures in view of Coastal erosion and poor soil conditions, work is occurring. The Government of Puducherry is yet to approve the alignment. Railway Board recently has decided to rework the ROR for the detailed estimate cost. As the alignment is to take off from Perungudi, there will be no interruption in running freight trains on the new line. Hence, it is proposed to give a new link from Mangalpattu to Mahabalipuram connecting the Chennai Beach - Mahabalipuram section at Mangalpattu and the proposed BG line from Chennai (Perungudi) to Cuddalore at Mahabalipuram. Striking out the alignment is completed. 186.425 km of alignment has been sanctioned. Drawings are not called as detailed estimate has not been sanctioned.
9.	Madurai - Tuticorin (via) Aruppukkottai (143.5 km) (P. B. No. 9)	60,343	2011-12		13	2.00%	work included in the year 2011-12. State Government of Tamil Nadu has been requested to give their consent to provide the work free of cost and also to contribute 50 per cent of the balance of the project vide this office order No.W.337/1/203/CN dt.31/03/2010. Works figuring in the High priority list of Board. Final location survey is on hand. For 2 block sections at Tuticorin (Milavittan) priority is given in view of power plants coming up in the area. Part detailed estimate submitted to Board in March 2013.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
2.0 Gauge Conversion							
10.	Tiruchchirappalli-Thanjavur-Nagore-Karaikkal (157Kms) with extension Nagappattinam-Velankanni-Tiruthuraipundi via Thirukuvalai (43 Kms.) and new material modification of Peralam-Karaikkal new line (23 km)	71,405	1995 - 96		53,555	70%	Estimates : Tiruchchirappalli - Thanjavur - Nagore section - ₹ 274.20 cr. vide letter No.92/W1/GC/S/25 dt.18/06/2010. Nagore - Karaikkal section - ₹ 86.44 cr. vide letter No.92/W1/GC/S/25 dt.18/06/2010. Nagappattinam - Velankanni section - ₹ 48.35 cr. vide letter No. 92 / W 1 / G C / S / 2 5 dt.18/06/2010. Nagappattinam - Thirukuvalai - Tiruthuraipundi section - ₹ 126.14 cr. vide letter No.92/W1/GC/S/25 dt.18/06/2010. Materials Modifications : i) Nagore - Karaikkal (11 kms) - ₹ 33.78 crores on 20/11/2002. ii) Nagappattinam - Velankanni New Line (10 kms) - ₹ 23.69 crores on 30/05/2002. iii) Nagappattinam - Tiruthuraipundi (via Thirukuvalai New Line (43 kms) - ₹ 126.14 cores on 22/07/2008. iv) Additional facilities at Nagore and Nagappattinam - ₹ 4.17 crores on 18/09/2000. v) New line Karaikkal-Peralam (23 km) - ₹ 110.19 in the Pink Book 2013-14. Revised estimate sanctioned for ₹ 535.13 crores vide letter No.92/W1/GC/S/25 dt.18/06/2010. Sections Opened: i) Tiruchchirappalli - Thanjavur new paralel BG (50 kms) on 01/01/1998. ii) Thanjavur - Tiruvarur (55kms) on 12/01/2007. iii) Tiruvarur - Nagore (30.37 Kms) on 27/02/2009. iv) Nagore-Karaikkal Port- Freight traffic commissioned on 27/01/2010. v) Nagappattinam - Velankanni (10.3 km) - Works completed and the section commissioned for passenger traffic on 20/12/2010. vi) Nagore - Karaikkal (10 km) on 17/12/2011. Section in progress: Nagappattinam - Thirukuvalai - Tiruthuraipundi New line Government of Tamilnadu has approved the land acquisition and fund deposited for Nagappattinam District only towards land cost. Fund deposited for Thiruvarur District. Proposal for Land acquisition has been submitted to State

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2013 (₹ in Lakhs)	Phy. Prog. (%)	Remarks
Gauge Conversion—Contd.							
11.	Quilon - Tirunelveli - Tiruchendur & Tenkasi - Virudhunagar - Gauge Conversion (357 Kms) (P.B.No.11)	102,992	1997 - 98		79,431		government and acquisition of land - 70 per cent completed. In Nagapattinam District, 94.79 Ha. has been acquired. In Tiruvallur District, 9.90 Ha. yet to be received. In the meantime, contract for a major bridge across Adappar river for a value of ₹ 8.00 cr. has been awarded where there is no land requirement and 40 per cent of foundation work completed. Contract terminated due to poor progress. Retender under finalisation. Contract for 10 major bridges at a value of ₹ 34.34 cr. has also been awarded and foundation work - 60 per cent completed. Tender for improving Safe Bearing Capacity of soil for 45 Nos. of minor bridges, work awarded & in 11 nos. minor bridges work completed. RCC Box for -4 br. completed. Bottom slab & side wall for -2 br. completed. Earth work and PCC for -6 br. completed. Ch. from 18,000 to 21,600 - Earth work, LUS & minor bridges - tender called. & Thirukkuvalai yard- Earth work, Minor bridges & PF - tender called. Tender for earthwork & minor bridges in part reaches (Ch. 8,000 to 13,000) opened & under finalisation. 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. 20/02/2001. 2) Quilon - Punalur section for ₹ 103.24 crores vide letter No. 97/W-1/GL/S/5 dt. 22/07/2005. 3) Tenkasi - Sencottai for ₹ 33.63 cr. vide letter No. 97/W-1/GL/S/5 dt. 10/08/2006 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. 16/04/2008. 5) Sengottai - 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. 26/09/2011.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
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Gauge Conversion—Contd.

The total cost sanctioned for the above project vide Railway Board's letter No.97/W-1/GL/S/5 dt.26/09/2011 is ₹ 842.35 cr.

Sections Opened:

1) Gauge Converted section between Virudhu Nagar and Rajapalayam (52 kms) was opened for passenger traffic on 01/06/2003.

2) Gauge Converted section between Rajapalayam and Tenkasi (69 Km) was opened for passenger traffic on 20/09/2004.

3) The section between Tenkasi and Sengottai (8 Kms) opened for passenger traffic on 07/02/2008.

4) The section between Tirunelveli and Tiruchendur (61.21 kms) was opened for passenger traffic on 27/09/2008.

5) The section between Quilon and Punalur (45 Kms) opened for passenger traffic on 12/05/2010. Section handed over to Open Line on 31/03/2012.

6) The section between Tirunelveli & Tenkasi (72 km) opened for passenger traffic on 21/09/2012.

Section in progress:

Sengottai - Punalur section - MG traffic has been closed on 20/09/2010 and various works are in progress. Progress is slow as funds are limited.

Sengottai - Bagavathipuram (7 km) and Edaman - Punalur (8 km) are targeted for 2012-13.

Progress on Bhagavathipuram - Edamann (33 km) - TDC: Not fixed.

All works are in progress including jacketing of arches, station buildings, ballast & linking. Grant of ₹ 42.00 cr. was not adequate. Tenders will be called in 2013-14.

Issues pending:

(i) Curve flattening is not possible and hence alignment is retained with 12° curves. Board's condonation is required and applications are being processed. CRS approval for condonation received & forwarded.

(ii) Tenders have been awarded for most of the works & they are in progress. Atleast ₹ 100.00 cr. BG is required in 2013-14 & 2014-15 to complete all works by March 2015.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
							Tunnel widening works are in progress. 5 tunnels (totalling 2 m length) are involved. 3 completed. T5 in progress. T6 widening not started. Steel girder major bridges (5 Nos./11 spans) are being manufactured by Engineering Workshop Shop, Arakkonam, slightly delayed. Masonry arch major bridges (5 Nos./80 spans). RDSO has cleared Railway's proposal for slabs. Jacketing has become necessary. One tender for arch jacketing awarded and under progress. One recalled.
12	Madurai - Rameswaram - Gauge Conversion (161 kms) (P. B. No.12).	33,327	1997 - 98	2007	36,599	96	Status of the estimate: Part detailed estimate for Madurai - Mandapam section was sanctioned by Railway Board for ₹ 173.68 crores on 07/02/2001. Part detailed estimate for GC work between Mandapam and Rameswaram was sanctioned by Railway Board for ₹ 73.29 crores on 17/03/2006. The section between Madurai - Manamadurai was opened for passenger traffic on 30/04/2005. The section between Manamadurai and Rameswaram (114 kms) opened for passenger traffic on 12/08/2007.
13	Thanjavur - Villupuram Gauge Conversion (192 Kms) (RVNL Project) (P. B. No.13)	57,232	1998 - 99	2010	12,369	1	Status of the estimate: Part detailed estimate for Thanjavur - Kumbakonam section was sanctioned by Railway Board for ₹ 73.05 Crores on 11/03/2003. 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 08/11/2004 Gauge Conversion from Kumbakonam to Mayiladuthurai Jn. is assigned to S. Railway Construction for execution. Thanjavur - Kumbakonam Section (39 kms) was opened for passenger traffic on 02/05/2004. GC work between Kumbakonam & Mayiladuthurai (31 kms) has been inaugurated and opened for passenger services on 17/06/2006 and handed over to Division on 27/02/2008. Gauge conversion of Villupuram - Mayiladuthurai (122 kms) section executed by RVNL. All works

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							completed and section opened for passenger traffic on 23/04/2010. Section dedicated to nation on 10/05/2010 by Shri G.K.Vasan, Hon'ble Union Minister in the presence of other distinguished guests.
14.	Cuddalore - Salem via Vriddhachalam - Gauge Conversion (191 kms) (RVNL Project) (P. B. No.14).	55,664	1999 - 2000	2007	26,584	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 06/01/2004. Vriddhachalam - Vadalur (27 km) was opened for traffic on 06/01/2003 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 19/01/2006. The State Government has agreed to share 50 per cent of cost vide letter (MS) No.51 dated 21/02/2007. 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.
15.	Tiruchchirappalli - Manamadurai - Gauge Conversion (150 Kms.) (PB No.15)	41,549	2000 - 01	2008	39,549	100%	Status of the estimate: Detailed estimate sanctioned for ₹ 187.91 crores. by Railway Board on 22/05/2002. Material modification estimate for Transshipment and coach maintenance facilities at Tiruvarur, Villupuram, Mayiladuturai and Golden Rock

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
16.	Villupuram - Katpadi - Gauge Conversion (161 Kms) (P. B. No.16).	90,564	2000-01	2011	59,562	100%	cost of ₹ 14.41 crores was sanctioned by Board vide letter No. 2002/W1/GC/SR/1 dated 2/2005. section between Chchirappalli and Pudukottai (10 kms) was opened for passenger traffic on 5/01/2007 and the section between Pudukottai and Karaikkudi also completed and opened for passenger traffic on 19/05/2007. MNM section was inaugurated on 02/07/2008 for passenger traffic and handed over to Open-line on 19/03/2010. all dual works completed. revised estimate has been sanctioned vide Board's letter No. 2002/W1/GC/S/2 dated 21.6.04 at ₹ 231.72 Crores. estimate amounting to ₹ 3.97 crores for Electrification of Katpadi - Villupuram section (10kms) is sanctioned by Board as material for Electrification to the work of GC of Katpadi - Pakkala - Katpadi section vide letter No.92/W-2/GC/S/20 Vol - II dated 19/01/2006. work completed between Katpadi - Villupuram (11 kms) section with Electrification and opened for passenger traffic on 10/11/2008 and handed over to Open line on 13/2009. work completed in Villupuram - Vannamalai - Villupuram (150 kms) section and CRS has given sanction vide letter dt.15/03/2011 for Passenger Traffic with speed of 50 km/hr. Accordingly, train No.16780 from Madurai to Trupathi passed the section on 1/03/2011.
17.	Manamadurai - Virudunagar - Gauge Conversion (66.55 Kms) (P. B. No.17).	23,158	2006-07	2013	18,084	90%	estimate sanctioned for ₹ 138.03 crores vide Railway Board letter No. 2000/W-1/GC/S/1 dated 31/12/2000. contracts are awarded. work is ready for commissioning. works completed and engine handed over on 31/3/2011. CRS inspection planned in May 2013.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
18	Dindigul - Pollachi - Palakkad & Pollachi - Coimbatore - Gauge Conversion (224.88 Kms) (P. B. No.18).	91,498	2006-07		60,425	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 26/02/2008. Revised estimate will be prepared and submitted to Board in due course. Podanur - Coimbatore (6 kms) project completed, CRS inspected and section commissioned on 23/03/2010 and handed over to open line on 22/06/2010 for maintenance. The MG train service from Pollachi to Palakkad has been suspended from 15/12/2008 and Dindigul - Pollachi - Podanur has also been suspended from 26/05/09. Contracts for almost all the works finalised and works are in progress. M/s. ARSS contracts have failed and retendering is on hand.
19	Mayiladuturai - Thiruvavur - Karaikkudi and Tiruturaipundi - Agastiyampalli including restoration of Nidamangalam - Mannargudi line & Mannargudi - Pattukkottai (278 km) (P. B. No.19)	119,005	2007-08		30,170	30%	<u>Status of estimate:</u> Work included in the budget 2007-08 at a cost of ₹ 404.19 crores. Part detailed estimate for Mayiladuturai - Thiruvavur (38 KM) was sanctioned by Railway Board on 08/05/2008 for ₹ 136.77 crores. Railway Board have included the restoration of Nidamangalam - Mannargudi line (13.25 Kms) as 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 ₹ 62.17 crores. Part detailed estimate for Thiruvavur - Tiruturaipundi - Karaikkudi and Tiruturaipundi - Agastiyampalli for ₹ 506.72 crores sanctioned by Board vide letter dt.12/09/2011. 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 10/09/2010 at a cost of ₹ 215.59 Cr.

Sl. No.	Name of work	Estimated Cost. (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2013 (₹ in Lakhs)	F P	Remarks
Gauge Conversion—Contd.							
							One part detailed estimate for major bridges for a value ₹ 19 cr. of Mannargudi - Pattukkottai section has been sanctioned by Board. Railway Board have included a New line between Thanjavur & Pattukkottai (47.2 km) at a cost of ₹ 290.05 cr. as material modification in P. B. 2012-13. Sections Opened: Nidamangalam-Mannargudi section has been authorised by CRS for running Passenger services and passenger traffic commissioned on 27/09/2011. Mayiladuturai - Thiruvavur MG section was closed on 08/06/2009. All works completed and engine rolling done on 20/12/2011. CRS inspected the section on 22/03/2012 and authorised for passenger traffic @ 80 km/hr. on 26/03/2012. Goods services commissioned on 06/04/2012. Passenger traffic commenced from 15/07/2012. Sections in progress: Pattukkottai - Karaikkudi section closed for traffic. Dismantling of track - 85 km completed except LC portion and work awarded for construction of minor bridges in Reach I - IV. In reach III dismantling of 63 bridges completed, 570 boxes cast at casting yard. 360 boxes leading to the bridge site & Gravel, sand filling & levelling course completed in 25 bridges. In reach IV, 57 bridges dismantled. 504 boxes cast at yard. 27 bridges - work in progress. Reach I & II LOA issued. Major bridges - tender finalisation. Reach IV, LOA issued. Tenders awarded for earthwork to the reach 1B & work in progress. Station building - tender called. Transportation of sleepers - 10500 moved. 52 Kg. rails - 1330 MT were unloaded at Karaikkudi yard. For Thiruvavur - Pattukkottai section, tenders called for reconstruction of major bridges & discharged, retender to be called. In Tiruturai - Agastiyampalli, LOA issued for minor bridges. Tender under finalisation for earthwork & minor bridges in Thiruvavur - Tiruturai - Pattukkottai section. Thiruvavur - Pattukkottai MG traffic closed on 19/10/2012 for GC works. Dismantling of MG

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							track-contract awarded. Tiruturaipundi-Pattukkottai-dismantling of MG track in progress. 7 km completed. LOA issued for dismantling of MG track in Thiruvavur- Tiruturaipundi section. Dismantling of MG track 6 km completed. Tiruturaipundi - Agastiyampalli - Track already dismantled by Division minor Bridge work awarded. Mannargudi to Pattukkottai New line (41 Kms):—FLS tender has been awarded and work is in progress. FLS is affected by local disturbances. Land requirement for complete length furnished to District Collectors in June 2012. 4 (1) not issued. New line between Thanjavur and Pattukkottai (47.2 km) has been sanctioned in 2012. Final location survey tenders opened on 26/02/2013. Subsoil investigation tender opened on 05/03/2013 & under finalisation.
20.	Madurai - Bodinayakanur (90.41 kms) (P. B. No.20).	26,072	2008-09		599	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 27/01/2009. Railway Board have sanctioned part estimate for ₹ 15.00 crores vide Railway Board letter No.2005/W1/NL/SR/1 dated 24/02/2009. Board have raised some observations vide letter dt.03/02/2011 and the same have been attended to and reply sent to Railway Board on 01/08/2011. 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. Budget grant is a constraint.
21.	Chennai Beach - Tambaram - Chengalpattu Suburban Gauge Conversion (60 kms.) (Under MTP Plan Head) (P. B. No.MTP-3)	52,000	1998 - 99	2004	45,309	88.00%	This Gauge Conversion work is executed on cost sharing basis, and 50 per cent 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 03-03-2001. Two MG lines from Chennai Beach to Chennai Egmore have been converted into Broad Gauge and opened for passenger traffic in

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2013 (₹ in Lakhs)	P. Pi	Remarks
Gauge Conversion—Conclcd.							
							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 01/11/2004. 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 07/09/2011. and second leg completed & commissioned on 05/10/2012. iii) Rangarajapuram RUB - Box pushing completed. Chennai corporation to take up 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 06/01/2010. vii) Trisulam ROB - Railway portion GAD approved. Tender to be called. Approach GAD under revision. viii) Pallavaram ROB (Goods shed Road) - Work completed & commissioned on 09/10/2012. ix) Pallavaram RUB - Work completed and commissioned. x) Dharga Road RUB - Railway works completed and commissioned on 25/02/2011. xi) Vaishnava College ROB - Work completed and commissioned. on 29/10/2010. xii) Radha Nagar RUB -Box pushing work completed. Highways department to take up approach work. xiii) Tambaram Sanatorium ROB - Work completed and commissioned on 15/08/2010. xiv) Tambaram - Velachery Road ROB - Work completed and commissioned on 17/08/2011. 2. Cost of the Gauge Conversion is about ₹ 370 crores and cost of the 14 ROB/RUBs is about ₹ 150 crores, totalling ₹ 520 crores.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
3.0 Doubling							
22.	Calicut-Mangalore (221 km) (P. B. 21)	62,102	1995-96	-	60,534	99%	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.
23.	Omalur - Mettur Dam - doubling with electrification (29.03 km) (P. B. No.22).	23,373	2011-12		10	2%	Work included in the Budget 2011-12. Agency fixed for FLS. Survey is in progress. Detailed Estimate at a cost of ₹ 215.38 crs. has been sent to Board vide Ir. No. W.193/III/18/CN dt.14/03/2013 for sanction. For Salem - Omalur section doubling has been dropped from the Pink Book recently and it is proposed to include this section as a material modification to the above project for which proposal has been sent to finance for concurrence.
24.	Irugur - Coimbatore Doubling (17.70 kms) (P.B. No.23).	9,800	1996 - 97	2010	9,343	100%	Detailed estimate sanctioned by Railway Board for ₹ 38.66 crores. The up line between Coimbatore and Coimbatore North (2.7 kms) has been completed and opened for traffic. (14/02/004) . 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 05/06/2010 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 20/08/2010. Section is taken over by Open line on 01/03/2011.
25.	Kumbalam-Thuravur - Patch doubling (15.59 km) (P. B. 24).	1,356	2011-12	-			Plan & Estimate under Preparation.
26.	Attippattu - Korukkupet Third line (18 Kms) (RVNL Funded Project, being executed by S.Rly.) (P. B. No.25).	14,728	1999 - 2000	2012	13,822	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.
27.	Ernakulam - Mulanturutti (17.37 km.) (P. B. 26)	21,285	2001-02	2010	10,407	100%	Section commissioned.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2013 (₹ in Lakhs)	P P ₁	Remarks
Doubling—Contd.							
28	Chennai Beach - Korukkupet III line (4.1 kms) (PB No.27).	14,000	2003 - 04		104		This work was originally allotted to RVNL for execution. Railway Board vide their letter No. 2005/W1/RVNL/13 dated 07/04/2006 have advised Southern Railway to take up the execution. Action has been taken accordingly. Original detailed estimate at a cost of ₹ 85.70 crores has been sent to Board on 03/08/2007 for sanction. As per Board's observations, revised detailed estimate for an amount of ₹ 141.87 crores sent to Railway Board vide this office letter No.W.193/III/20/CN dated 08/01/2013 for sanction. 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.22/04/2009. 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 trust. 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. Due to relocation of printing press & new construction of ROBs (3R & 4R), Revised detailed estimate works out to ₹ 141.95 crs. against the original Pink Book cost of Rs.9.35 cr. which was erratically included in the budget. Estimate is pending in Board. Needs to be sanctioned early.
29.	Mavelikara - Kayanakulam (7.89 km) (P. B. 28)	8,687	2003-04	2012	6,369		Section commissioned.
30.	Cheppard - Kayanakulam (7.76 km) (P. B. 29).	6,874	2003-04	2012	4,300		Section commissioned.
31.	Mavelikara-Chengannur - Patch doubling (12.30 km) (P. B. 30).	11,948	2003-04	2012	7,906		Section commissioned.
32.	Cheppard-Haripad - Patch doubling (5.28 km) (P. B. 31).	6,302	2003-04	2012	3,082		Section commissioned.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
33.	Chennai Beach - Attippattu IV Line (22.1 Kms) (P. B. No.32)	10,744	2003-04		2,018	8%	This work was originally allotted to RVNL for execution. Railway Board vide their letter No. 2005/W1/RVNL/13 dated 07/04/2006 have advised Southern Railway to take up the execution. Action has been taken accordingly. Original detailed estimate for ₹ 102.42 crores sent to Board vide letter No.W.193/III/19/CN dated 16/10/2007 for sanction. Meanwhile, GM has instructed to delete the works which were not planned originally in the final location survey report in order to reduce the cost and to process for GM's sanction. Accordingly, the detailed estimate has been revised to ₹ 96.14 cr. and GM/MAS has accorded sanction (since the value is less than ₹ 100 cr.) on 23/02/2011. <u>Section's progress:</u> Korukkupet - Attippattu section: Ennore - Attippattu (6 km) is linked as targeted and NI will be taken in May 2013 to commission the 4th line. Korukkupet - Ennore (10 km) - Non-targeted - tenders called & under finalisation. Chennai Beach-Korukkupet section: Non-targeted 4th line work is linked with 3rd line work which is yet to be started. Land for 3rd & 4th line from Chennai Port Trust has to be obtained by exchanging after the Railway Printing Press is shifted after the detailed estimate for 3rd line is sanctioned.
34.	Madurai - Dindigul (P. B. No. 33)	(62.05 kms) 22,872	2003 - 04	2009	22,404	100%	Board have sanctioned the detailed estimate at a cost of ₹ 128.56 crores vide Railway Board letter No.2003/W1/SR/GC/Madurai-Dindigul dated 28/08/2006. The section between Dindigul and Kodaikkanal Road (22 kms) completed and opened for traffic on 30/09/08. Section handed over to Open Line on 14/09/2009. The section between Kodaikkanal Road and Madurai (40.05 kms) completed and commissioned on 29/07/2009. Section handed over to Open Line on 12/02/2010.
35.	Mulanturutti-Kurruppantara (P. B. 34)	(24 km) 18,577	2005-06	-	8,252	27%	Land in Mulanturutti - Piravam Road block is under handling over by the State Govt.

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2013 (₹ in Lakhs)	Ph. Prc	Remarks
Doubling—Contd.							
36.	Chinganur-Chingavanam (26.5 km) (P. B. 35).	22,295	2006-07	-	6,113		landing over of land has started in Chingannur - Tiruvalla section. Tender has been opened for 2 reaches out of 3 in Chingannur - Tiruvalla section on 14/06/2011 & under finalisation.
37.	Kankanadi-Panambur - Patch doubling (19 km) (P. B. 36).	14,920	2008-09	-	1,496	1:	heavy yard work, 700m tunneling works, 25m deep cutting for long stretch are involved. Requirement of land for 8.5Km. has been furnished and remaining portion will be furnished to Karnataka State.
38.	Chengalpattu - Villupuram doubling (103 km) - with new Material Modification for Tambaram - Chengalpattu - 3rd line by GC of existing MG line alongwith electrification (30 km). (P. B. No.37).	95,124	Supp. Demands		47,345	5:	Detailed estimate for ₹ 369.41 crores sanctioned by Railway Board vide letter No.2000/W-1/GC/SR/CGL-VM dated 08/04/2008. ● About 26 hectares of land to be acquired by Tamilnadu state Government and handed over to Railways. ● Difficulties in getting earth quarry permits affect earthwork badly, even after 6 months permit not issued. ● Major 3 reaches by M/s. MAYTAS badly delayed & hence terminated. Tenders called & under finalisation. M/s. MAYTAS have requested for revoking, subject to augument mobilisation.
39.	Kurruppanthara-Chingavanam (26.54 km) (P. B. 38).	34,615	2007-08	-	1,204		Final Location Survey completed and Detailed Estimate prepared and is under Finance vetting. 30 hectares of land will have to be acquired by State Govt. for which requisition has already been given.
40.	Ambalapuzha - Haripad (18.13 km.) (P. B. 39).	10,592	2008-09	-	2,314		Detailed Estimate is under Finance vetting. Agency fixed for Final Location Survey and the same is in Progress. Requisition of land for 16 hectares has been given. Tenders opened for major bridges.
41.	Villupuram- Dindigul (with Electrification. 273 Kms) (P. B. No.40).	128,083	2008-09		84		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.
42.	Tiruvallur-Arakkonam 4th line (26.83 Kms) (P. B. No.41).	14,909	2008-09				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

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in year	Completed in year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
Doubling—Concl'd.							
							letter No.2007/WP/SR/08-09/01 dated 15/07/2008. The section between Tiruvalangadu & Arakkonam (10 km) has been completed & CRS inspected the section on 31/08/2012. Authorisation is awaited.
43.	Ernakulam-Kumbalam - Patch doubling (7.71 km) (P. B. 42).	7,132	2010-11	..	..	..	Estimate is under Preparation. For Korukkupet - Ennore (12 kms) the line is opened to traffic on 09/03/09 and handed over to open line on 09/09/2009. 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 3 rd line has been completed & Goods services commenced on 26/03/2012.
44.	Thanjavur - Ponmalai - Doubling (46.96 km) with bye-pass line before Ponmalai (1.13 km) (P. B. No. 43).	19,010	Supp. of Demand	2011-12	1,537	0.00%	Work included in the Budget 2011-12 as supplementary demand. FLS tender finalised and LOA issued on 12/09/2012. Work started. FLS estimate sanctioned. Tender schedule is being processed for floating tender. Part tender schedule for new bye pass line alone are under preparation. Regarding Bye-pass line before Ponmalai, proposed yard arrangement drawings approved by CTPM/MAS. Part detailed estimate for bye-pass line before Ponmalai (1.13 km) for ₹ 23.36 cr. has been sent to Board vide letter No.W.193/T/2/CN dt.16/01/2013.
4.0 MTP WORKS							
45	Mrts - Phase - I : Chennai Beach To Tirumailai (P. B. No. MTP-1).	30,619	1983-84	1997	28,356	100%	The Project has been completed and commissioned in Oct. 1997. Construction of a new Station building (Mundakkanni Amman Koil Station) was sanctioned as material modification at a total cost of ₹ 8.98 Crores. Original contract for the new station failed and new contract fixed for the balance works. Present progress is 90 per cent on station building finishing works. Target for completion : 30/04/2013.
46	MRTS - Phase - II - Tirumailai To Velacheri (11 Kms) (P. B. No. MTP-2)	87,558	1996-97	2007	86,603	98%	Status of Estimate : Sanctioned at ₹ 733.39 crores including modification for provision of ballastless track at a cost of ₹ 14.41 crores between Tirumailai and Tharamani and Construction of elevated structure between Tharamani

Sl. No.	Name of work	Estimated Cost (₹ in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2013 (₹ in Lakhs)	Physical Progress (%)	Remarks
MTP WORKS—Concl'd.							
47	MRTS - Phase - II - Extension from Velacherry to St. Thomas Mount (5 kms) (P. B. No. MTP-4)	49,574	2006-07		24,464	49	nd Perungudi (Km 16.790 to 7.441) at a cost of ₹ 12.63 crores and between Perungudi & Velacherry (km. 18.00 - 18.85) at cost of Rs. 15.31 crores. Revised estimate at a cost of ₹ 875.58 crores has been sanctioned by Railway Board vide letter No.96/Project/MAS/9/1/Vol.II dt.21/07/2010. Section opened for Passenger traffic on 19/11/2007. Velacherry car shed works are in progress. In respect of station buildings, structural and finishing works are in progress in Mandaveli, Kasturba Nagar, Indira Nagar, Tiruvanmiyur, Paramani & Velacherry stations. Parallel road from Kasthurba Nagar to Tiruvanmiyur and Paramani to Velacherry has been proposed to be handed over to Corporation of Chennai for further completion. Estimate for the same is awaited from Corporation of Chennai. One subway is in progress. Target for these works is 30/06/2013. New work included in the Budget 2006-07. Initial survey completed. Status of the Estimate: Sanctioned for ₹ 495.74 crores vide Railway Board letter No. 2001/Prog/MAS/9/2/Vol.I dated 15/11/2007. Contracts have been awarded for substructure and superstructure works for section from Velacherry to Aadambakkam for a distance of 3.5 km in three reaches and works are in progress. For balance 1.5 km, land acquisition is yet to be done by State Government. Contracts for structural/ architectural drawing for station building awarded and the same is in progress. Tender for construction of two station buildings (Puzhuthivakkam & Aadambakkam) recalled after contractors failed. The work is in progress for the 3.50 km length from Velacherry end. Land for the stations Aadambakkam & Puzhuthivakkam has not been handed over. Land for the balance alignment (stand alone section) to connect to St. Thomas Mount station is also not received. Public are resorting to court cases again & again and presently stay exists and Tamilnadu Govt. has been urged to hand over the land.

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. SA	Nil			
3. PGT	Nil			
4. TVC	Nil			
5. TPJ		Goc	Yard Double entry facility in road 7.	29.00
6. MDU		TEN-TSI	Yard.	179.00
7. CE/CN/ERS		-		..
8. CE/CN/MS		1. MMK, MLMR, TZD, ACK, PEI&VVN	yard works completed. PQM & TRX works completed.	1671.83
		2. GC between MNM and Virudhunagar (NKK, TCH, APKB, VPT yards).		850.00
9. MTP	Nil			..

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

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

(B) Works in progress

(i) Works costing more than ₹ 5 lakhs each—

1. MAS	Nil			
2. SA	Nil			
3. PGT	Nil			
4. TVC		1. Provision of three line crossing station between Valliyur-Aralvaymoli (North Panankudi).		702.94
		2. Nagercoil Jn. One single face platform, one stabling line and simultaneous despatch & reception facilities from Trivandrum side.		1016.84
		3. Kanniyakumari - Proposed additional platform and extension of platform.		398.68
5. TPJ	Nil			..
6. MDU	Nil			..
7. CE/CN/ERS	Nil			..
		(1) Re-modelling of MDU yard under DG-MDU doubling by GC.		600.00
8. CE/CN/MS		(2) OLA, TMV, MTL, PTM, PCLM & KSGM yard works in progress (Part of CGL - VM GC project).		862.35
9. MTP	Nil			..

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

1. MAS	Nil			..
2. SA	Nil			..
3. PGT	Nil			..
4. TVC	Nil			..
5. TPJ	Nil			..
6. MDU	Nil			..
7. CE/CN/MS	Nil			..
8. CE/CN/ERS	Nil			..
9. 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. CE/CN/ERS	..			..
8. CE/CN/MS			MDU All yards in MNM-VPT-GC project i.e. NKK, TCH, APK & VPT yards.	850.00
9. 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/ERS	..	Nil		..
8. CE/CN/MS	..	Nil		..
9. 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. CE/CN/ERS	..	Nil		..
8. CE/CN/MS	..		All works in DG-POY-GC Project.	3200/00
9. 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. CE/CN/ERS	..	Nil		..
8. CE/CN/MS	..	Nil		..
9. MTP	..	Nil		..

II. Extension of Loops

(A) Works completed

(i) Works costing more than ₹ 5 lakhs

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

Sl. No.	Division	Station	Name of work	Estimate cost ₹ in lakhs
(ii) Works costing less than ₹ 5 lakhs				
1.	MAS	Nil		..
2.	SA	Nil		..
3.	PGT	Nil		..
4.	TVC	Nil		..
5.	TPJ	Nil		..
6.	MDU	Nil		..
7.	CE/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	MTP	Nil		..
(B). Works in Progress				
(i) Works costing more than ₹ 5 lakhs				
1.	MAS	Nil		..
2.	SA	Nil		..
3.	PGT	Nil		..
4.	TVC	Nil		..
5.	TPJ	Nil		..
6.	MDU	Nil		..
7.	CE/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	MTP	Nil		..
III. Provision of Crossing Station				
(A) Works Completed				
(i) Works costing more than ₹ 5 lakhs				
1.	MAS	Nil		..
2.	SA	Nil		..
3.	PGT	Nil		..
4.	TVC	Nil		..
5.	TPJ	Nil		..
6.	MDU	Nil		..
7.	CE/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	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/CNERS	Nil		..
8.	CE/CNMS	Nil		..
9.	MTP	Nil		..
(ii) Works costing less than ₹ 5 lakhs				
1.	MAS	Nil		..
2.	SA	Nil		..
3.	PGT	Nil		..
4.				

Sl. No.	Division	Station	Name of work	Estimate cost ₹ in lakhs
(ii) Works costing less than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CE/CN/ERS	..	Nil	..
8.	CE/CN/MS	..	Nil	..
9.	MTP	..	Nil	..
V. Additional Traffic Facilities				
(A) Works Completed				
(i) Works costing more than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	Tiruppur - Conversion of roads as common loop.	98.07
3.	PGT	..	Nil	..
4.	TVC	..	Nil	..
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CE/CN/ERS	..	Nil	..
8.	CE/CN/MS	..	Remodelling of MDU yard under DG-MDU doubling by GC.	600.00
9.	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/ERS	..	Nil	..
8.	CE/CN/MS	..	Nil	..
9.	MTP	..	Nil	..
(B) Works in progress				
(i) Works costing more than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	i. MCRD - Augmentation of good shed capacity to full rake.	49.40
		..	ii. Mayanur - Increasing the CSL of Roads 1 & 2715 m.	92.00
		..	iii. Salem Market - Augmentation of Freight Terminals.	127.35
		..	iv. Cauvery - Increasing the CSL of roads to standard length.	99.95
		..	v. PLI & KLT - Provision of sand hump.	24.48
3.	PGT	..	Nil	..
4.	TVC	..	NCJ - One single phase PF, one stabling line and simultaneous despatch and reception facilities.	1016.84
		..	CAPE - Additional PF and extension of PF.	398.68
		..	Provision of three line crossing station between Valliyur-Aralvaymoli (North Panankudi).	702.94
5.	TPJ	..	Nil	..
6.	MDU	..	TDN, NRK, TAY, MVN-Provision of sand hump work not yet started. Awaiting for CRS sanction.	198.00

Sl. No.	Division	Station	Name of work	Estimate cost ₹ in lakhs
7.	CE/CN/ERS	..	Kochuvelli - Proposed second coaching terminal facilities Phase II.	3363.00
8.	CE/CN/MS	..	Nil	..
9.	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/ERS	..	Nil	..
8.	CE/CN/MS	..	Nil	..
9.	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/ERS	..	Nil	..
8.	CE/CN/MS	..	Nil	..
9.	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/ERS	..	Nil	..
8.	CE/CN/MS	..	Nil	..
9.	MTP	..	Nil	..
(B) Works in Progress				
(i) Works costing more than ₹ 5 lakhs				
1.	MAS	..	Nil	..
2.	SA	..	Nil	..
3.	PGT	..	Nil	..
4.	TVC	..	i. CKI - Goods shed improvement and paving of unloading area.	29.65
		..	ii. OLR - Goods shed improvement and paving of unloading area.	29.65
5.	TPJ	..	Nil	..
6.	MDU	..	Nil	..
7.	CE/CN/ERS	..	KCVL Yard Pit line.	105.00
8.	CE/CN/MS	..	Nil	..
9.	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/ERS	..	Nil	..
8.	CE/CN/MS	..	Nil	..
9.	MTP	..	Nil	..

8. Doubling of Line

(₹ in Crores)

Sl. No.	Division	Section	Length in km.	Physical progress	Date of which the section offered	
					Goods Traffic	Passenger Traffic
(a) New doubling sanction during the year 2012-13						
1	MAS	Nil				
2	SA	Nil				
3	PGT	Nil				
4	TVC	Nil				
5	TPJ	Nil				
6	MDU	Nil				
7	CE/CN/ERS	Nil				
8	CE/CN/MS	Chennai Beach-Attipattu IV Line (P. B. No. 32).	22.1	8%		
		(ii) Chengalpattu - Villupuram doubling (103 km) with new material modification for Tambaram-chengalpattu 3rd line by GC of existing MG line along with electrification (P. B. No. 37).	133	58%		
		(iii) VM-Dindigul (with electrification P. B. No. 40).	273	0%		
		iv). Thanjavur-Ponmalai - Doubling with bye pass line before Ponmalai P. B. No. 43.	48.09	0%		

The work was originally allotted to RL for execution Railway Board their letter No.2005/W1/RVNL/13 dated 07.04.2006 have advised Southern Railway to take up the execution. Action has been taken accordingly original detailed estimate of ₹ 102.42 crores sent to Board vide their letter No.W.193/III/19/CN dt. 10.2007 for sanction. Meanwhile GM/MAS has instructed to delete the work which were not planned originally in final location survey report in order to reduce the cost and to process for Board's sanction. Accordingly the original estimate has been revised to ₹ 36.14 crore and GM/MAS has accorded sanction (since the value is less than ₹ 100 crore) on 23.02.2011.

Original estimate for ₹ 369.41 crores sanctioned by Railway Board vide their letter No.2000/W1/GC/SR/CGL-VM dt. 04.08. About 26 hectares of land to be acquired by Tamilnadu State Government and handed over to Railways. Difficulties in getting earthwork permits affect earthwork badly, thereafter 6 months permit not issued. Major 3 reaches by M/s. MAY TAS are delayed and hence terminated. Orders called and under finalisation M/s. MAYTAS have requested for revoking, subject to augment mobilization.

Work included in the budget 2008-09. FLS completed and detailed estimate prepared at a cost of about ₹ 1258.60 crore and sent to RVNL for further processing and execution of the projects. 151 hectare of land to be acquired and handed over by Tamil Nadu State Government.

Work included in the budget 2011-12 is supplementary demand. FLS tender finalised and LOA issued on 2.09.12. Work FLS estimate sanctioned. Tender schedule is being processed for floating tender. Part tender schedule for new bye pass line are under preparation. Regarding Bye pass line before Ponmalai,

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	

New doubling —Contd.

9	MTP	Nil					proposed yard arrangement drawings approved by CTPM/MAS. Part detailed estimate for bye pass line before Ponmalai (1.13 km.) for ₹ 23.36 crore has been sent to Board under letter No.W.193/T/2/CN dt. 16.01.2013.
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Doubling in Progress

1	MAS	MTL-TMVPEI-MTL	45.13	70%	—	—	
2	SA	Nil					
3	PGT	Nil					
4	TVC	Nil					
5	TPJ	Nil					
6	MDU	Nil					
7	CE/CN/ERS	MNTT-KRPP CNGR-CGV MAJN-PNMB HAD-AMPA	24.00 26.50 19.00 18.14	27% 17% 0.50% 2%			
8	CE/CN/MS	Omalur-Mettur Dam - Doubling with electrification. (P. B. No. 22).	29.03	2%			Work included in the Budget 2011-12. Agency fixed for FLS. Survey is in progress. Detailed estimate at a cost of ₹ 215.33 crores has been sent to Board under letter No.W.193/III/18/CN dt. 14.03.2013 for sanction. For Salem - Omalur section doubling has been dropped from the pink book recently and it is proposed to include this section as a material modification to the above project for which proposal has been sent to Finance for concurrence.
9	MTP	Nil					

Doubling completed

1	MAS	Nil					
2	SA	Nil					
3	PGT	Nil					
4	TVC	Nil					
5	TPJ	Nil					
6	MDU	Nil					
7	CN/CN/ERS	NTVT-MAJN CNGR-MVLK	5.33 12.30	100% 100%	10.05.12 22.10.12	10.05.12 22.10.12	
8	CE/CN/MS	1) Irugur-Coimbatore doubling. (P. B. No. 23).	17.70	100%	..	20.08.10	Detailed estimate sanctioned by Railway Board for ₹ 38.66 crores. The upline between Coimbatore and Coimbatore North (2.7 Kms.) has been completed and opened for traffic 14.02.04. In the remaining stretch also,

8. Doubling of Line

(₹ in Crores)

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

Remarks

Doubling in Progress

		2) Attipattu – Korukkupet third line (RVNL funded project, being executed by S.Rly. P. B. No. 25.	18	83%	KOK-ENR 09.03.09 ENR-AIP 26.03.12	KOK-ENR 09.03.09 ..
		3) Madurai- Dindigul P. B. No. 33	62.05	100%		DG-KQN 30.09.08 KQN-MDU 29.07.09
		4) Thiruvallur - Arakkonam 4th Line P. B. No. 41.	26.83	0%		
9	MTP	Nil	..	..	..	..

works completed including finaling in station yard. CRS hased statutory inspection of CBE section (18 Km.) on 10 and issued authorisation for of the project for public NI working at Pilamedu, Irugur s been completed and the commissioned on 20.08.10 s taken over by open line on 11.

the estimate. The detailed for Attipattu-Korukkupet third sanctioned by Railway Board 56 crores on 17.10.2002. Korukkupet - Ennore (12 Kms.) the ened to traffic on 09.03.09 ded over to open line on For Ennore to Attipattu (6 th work and major bridge d. Three minor bridge work is is. Earth work and blanketing attu yard is in progress. Attipattu Pudunagar (3.87 km) ne has been completed and services commenced on 12.

ve sanctioned the detaquied at a cost of ₹ 128.56 crores ilway Board letter No.2003/ C/MDU-DG dt. 28.08.06. The etween DG and KOK Road) completed and opened for 30.09.08. Section handed pen line on 14.09.09. The etween Kodaikkanal Road and 0.-05) completed and oned on 29.07.09. section ver to open line on 12.02.10.

ded in the budget 2008-09. ocation survey is required. land for about 35 hectares ired. Land requirement has rished to the State nt. This work is allotted to e Railway Board's letter WP/SR/08-09/01 dated The section between gadu & AJJ (10 km) has been ned.

9. Siding

Estimate cost (₹ in Lakhs)

Sl. No.	Station	Name of Work	Estimated cost in ₹ lakhs	Position as on 31/3/2013
I. Private Sidings—Works completed				
(i) Works Costing more than ₹ 5 lakhs				
1.	MAS	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	Nil		
5.	TPJ	Nil		
6.	MDU	TNHP - 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 under deposit term.	160.00	
7.	CN/CN/ERS	Nil		
8.	CE/CN/MS	Nil		
9.	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.	CE/CN/MS	Nil		
9.	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.	CE/CN/MS	Nil		
9.	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.	CE/CN/MS	Nil		
9.	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.	CN/MS	Nil		
8.	CE/CN/MS	Nil		
9.	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		

9. Siding

Estimate cost (₹ in Lakhs)

Sl. No.	Station	Name of Work	Estimated cost in le	Position as on 31/3/2010
7. CN/MS	..	Nil		
8. CE/CN/MS	..	Nil		
9. 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. CE/CN/MS	..	Nil		
9. 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. CE/CN/MS	..	Nil		
9. MTP	..	Nil		
C) Railway Siding				
(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. CE/CN/MS	..	Nil		
9. 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. CE/CN/MS	..	Nil		
9. 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. CE/CN/MS	..	Nil		
9. 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. CE/CN/MS	..	Nil		
9. MTP	..	Nil		

10. Strengthening of Track

ABSTRACT

Sl. No.	Division	Works Completed				Works in Progress			
		more than ₹ 5 lakhs		less than ₹ 5 lakhs		more than ₹ 5 lakhs		less 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	28	3230.76	13	38.00	35	2629.13	5	18.00

Sl. No.	Division	Works Completed				Works in Progress			
		more than ₹ 5 lakhs		less than ₹ 5 lakhs		more than ₹ 5 lakhs		less than ₹ 5 lakhs	
		No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).
1	MAS	1	100.00	3	6.00	3	97.00	—	—
2	SA	2	80.00	-	-	3	201.42	—	—
3	PGT	5	127.68	-	-	15	1826.82	-	-
4	TVC	-	-	—	—	4	380.89	—	—
5	TPJ	18	168.00	10	32.00	10	123.00	5	18.00
6	MDU	1	2657.00	—	—	-	-	—	—
7	CE/CNERS	-	—	—	—	—	—	—	—
8	CE/CNMS	1	98.08	—	—	—	—	—	—
9	MTP	-	-	-	-	-	-	-	-
Total		28	3230.76	13	38.00	35	2629.13	5	18.00

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	Construction of boundary wall at MAP, TPT & BQI	53.86
3.	PGT	Nil	
4.	TVC	Nil	
5.	TPJ	Nil	
6.	MDU	NZT/TEN-TCN -Construction of boundary wall.	10.00
		VPT Construction of boundary wall at Km.496/400 to 497/000	28.42
7.	CE/CNERS	Nil	
8.	CE/CNMS	Nil	
9.	MTP	Nil	

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

1	MAS	Nil	
2	SA	Erode - Fencing around Type II 48 units - barbed wire fencing.	0.80
3	PGT	Nil	
4	TVC	ERG - Proposed compound wall	2.36
5	TPJ	Nil	
6	MDU	Nil	
7	CE/CNERS	0	
8	CE/CNMS	CGL-VM Doubling CGL Yard PF No.1 - 310 m, PF No.2 425 m, TRX - 420 m, OV PF No.1-300 m, LC 56 - 65 m, & LC 57-60 m, PEI yard - 420 m, PQM-420 m, MMK - 600 m, KGZ - 500m, MLMR - 600 m & MTL 420 m completed (4540 m x 1800)	0.8172
9	MTP	Nil	

Sl. No.	Division/Station	Name of work	Cost of ₹ (in lakhs)
(B) Works in Progress :-			
(i) Works Costing more than ₹ 5 lakhs each :-			
1. MAS	..	Nil	
2. SA	..	(i) SE/P.Way/E/PTJ section - Proposed rail fencing along parallel to track vulnerable location in between CBF-MTP	28.74
		(II) Proposed rail fencing along side the road parallel to TUP-VNJ for a length of 5000m.	28.74
		(iii) SE/P.Way/E/PTJ section - Proposed rail fencing along parallel to track vulnerable location in between VNJ-SNC	27.07
		(iv) SE/P.Way/E/PTJ Section - Proposed rail fencing along parallel to track vulnerable location in between SNO-PTJ	11.53
		(v) SE/P.Way/CBF Section - Proposed rail fencing along parallel to track vulnerable location in between CBF-MTF	19.48
		(vi) SE/P.Way/CBF/CTR Section - Proposed rail fencing parallel to track vulnerable location in between IGU-CBE	19.89
		(vii) SE/P.Way/ONR Section - Proposed rail fencing along parallel to track vulnerable location in between MTP-UAI	13.42
		(viii) SA-Dn - Proposed safety barricades to prevent ply close to track.	25.00
		(ix) KRR - Sub Division - Repairs to existing steel fencing side station.	40.83
3. PGT	..	Nil	
4. TVC	..	ERS Diesel Shed compound wall to shed area 1115 m	98.75
5. TPJ	..	Nil	
6. MDU	..	1) Construction of boundary wall for a length of 400 m vulnerable locations/encroachment in USLP, MNM, VPT	245.17
		2) MVN-TN - Construction of boundary wall for a length m	30.00
		3) RMM - Compound wall to sick line and pit line area a boundary - Phase I.	41.84
7. CE/CN/ERS	..	KYJ-HAD -AMPA doubling	33.00
8. CE/CN/MS	..	Nil	
9. MTP	..	Nil	
(ii) Works Costing less than ₹ 5 lakhs each :-			
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/ERS	..	Nil	
8. CE/CN/MS	..	Nil	
9. 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 each :-				
1. MAS	..	Nil		
2. SA	..	1. Erode improvements to running room.		8.7
		2. OML Improvements to running room.		8.5
3. PGT	..	Nil		
4. TVC	..	Nil		
5. TPJ	..	1. TPJ Jn. Provision of new good shed road with sep	entry and exit facilities.	10.00
		2. GOC Improvements to approach road in diesel loco		5.00
6. MDU	..	Construction of new running room. TN10 beds and M	beds	60.00
7. CE/CN/ERS	..	Sick line shed at KCVL		230.00
8. CE/CN/MS	..	Nil		
9. MTP	..	Nil		

Sl.No.	Division	Station/ Section	Name of work	Cost of ₹ (in lakhs)
Works Completed :-				
(i) Works Costing less than ₹ 5 lakhs each :-				
1.	MAS	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	Nil		
5.	TPJ	Nil		
6.	MDU	SCT - Improvements to the kitchen, dinning, reading room, toilet and bathroom		3.77
7.	CE/CN/ERS	Nil		
8.	CE/CN/MS	Nil		
9.	MTP	Nil		
(B) Works in Progress :-				
(i) Works Costing more than ₹ 5 lakhs each :-				
1.	MAS	Nil		
2.	SA	SA - Improvements to running room.		9.00
3.	PGT	Nil		
4.	TVC	NCJ - Construction of new running room.		30.00
5.	TPJ	1. GOC - DSL Loco shed pit line flooring, partition, drainage arrangements and arresting of seepage. 2. Replacement of damaged/broken AC GCI gutters with GCI sheet gutters in heavy schedule bays and light schedule bays in DSL Loco shed/GOC. 3. Replacement of damaged/broken rain water drain pipes with UPVC pipes of 160 mm dia in heavy schedule bays and light schedule bays in DSL Loco shed/GOC 4. Replacement of damaged/broken north light glasses in heavy repair schedule bays in DSL loco shed/GOC.		80.00 5.00 5.00 5.00
6.	MDU	1. Extension of running room 15 beds in First Floor at TEN. 2. RMM-Construction of TTE Rest rooms with 12 beds in cubical portion etc. Construction of RR to accommodate 15 beds.		25.00 81.00
7.	CE/CN/ERS	Nil		
8.	CE/CN/MS	Pit line at TN.		600.00
9.	MTP	Nil		
Works in Progress				
(I) Works Costing less than ₹ 5 lakhs each				
1.	MAS	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	Nil		
5.	TPJ	Nil		
6.	MDU	Improvements to Guard, Crew Rest room and front Verandah in SCT-Running.		3.56
7.	CE/CN/ERS	Nil		
8.	CE/CN/MS	Nil		
9.	MTP	Nil		

13. Provisional Improvements to offices Stores and Workshops etc.

Sl.No.	Division	Station/ Section	Name of work	Cost of ₹ (in lakhs)
A. Works Completed :-				
(i) Works Costing more than ₹ 5 lakhs each :-				
1.	MAS	Nil		
2.	SA	i) PTJ - S&T workshop - Installation of Reverse Osmosis plant. ii) DLS/ED proposed for repairs to the flooring on road Nos. 3, 4, 5 & 6. iii) PTJ - Improvements to prewiring section inside S&T workshop (Phase -II). iv) PTJ - Workshop - Improvements to prewiring section inside S&T/TC/PTJ area (Phase-I). v) S&T/W/PTJ surroundings by landscaping, improving the waste land inside the workshop by providing roads and garden (id:2128/07-08)		8.00 9.00 29.50 29.50 29.00

Sl. No.	Division/Station	Name of work	Cost of ₹ (in lakhs)
3. PGT		Proposed construction of SSE/PW/TIR office.	21.76
4. TVC	..	Nil	
5. TPJ		i) GOC CRS shop - Proposed metal road between CRS & W	5.00
		ii) GOC Central Workshops - Improvements to BTC worksho	5.00
		iii) GOC Central Workshops - Improvements to drainage sys	5.00
		iv) GOC Central Workshops - Provision of transparent sheet	5.00
		v) GOC WAS-II Shop - Provision of concrete road between	5.00
		vi) CWS/GOC providing of concrete flooring at 3rd BG pit lir	5.00
		vii) GOC Shop - Provision of modular work station to the off	5.00
6. MDU	..	Nil	
7. CE/CN/ERS	..	Nil	
8. CE/CN/MS	..	Nil	
9. MTP	..	Nil	
(I) Works Costing less than ₹ 5 lakhs each			
1. MAS	..	Nil	
2. SA	..	Nil	
3. PGT	..	Nil	
4. TVC	..	Nil	
5. TPJ	..	Nil	
6. MDU	..	Nil	
7. CE/CN/ERS	..	Nil	
8. CE/CN/MS	..	Nil	
9. MTP	..	Nil	
(A) Works in Progress :-			
(i) Works Costing more than ₹ 5 lakhs each :-			
1. MAS		i. PER SW II/GSD/PER - Provision of toilet block for ladies, physically challenged persons at platform keeping side.	5988405.00
		SWIII GSD-PER - Provision of toilet block for ladies, gents : floor of main office. SW X - PER - Electrical workshop - Im to IDN meter testing lab. Agt.No.112/RM/MAS of 23.11.11. M/W.496/RM/6569 dt. 03.02.10.	
		ii. PER - Construction of separate building to accommodate wards at GSD/PER burn unit central hospital, PER/Electric at PER - Improvements to IDN meter lab. LOA No.M/W.496/ dt. 09.03.11.	4814485.00
		iii. PER - Improvements to water supply arrangements, ag to main office at GSD/PER ainseley canal at PER COS/PE office. LOA No.M/W.496/RM/6986 dt. 12.10.11.	3243624.00
		iv. PER - Zone C5 PER maintenance of all buildings and r and S&T workshop at PER LOA No.M/W.496/RM/7284 dt. (	1187641.00
2. SA		i) DLS/ED - Improvements to natural lighting and asbestos	17.64
		ii) DLS/ED - Construction of covered shed for BOSCH tar	18.00
		iii) Erode Jn. - Reconstructon of old, tin sheet roofed, in maintenance depot.	29.70
		iv) Mettupalayam - Basic infrastructural facilities for NMF maintenance (Id:1000/09-10) CE/OL.	156.00
		v) ED/Diesel Shed - Replacing existng roofing AC sheets	50.00
		vi) S&T Workshops - PTJ - Provision of galvalume sheet asbestos sheet roof of various shops at S&T workshop	50.00
3. PGT		PGT - Proposed paving and making compound wall in th SE/Sig./Store yard.	29.00
4. TVC	..	Nil	
5. TPJ		i. GOC Central Workshops - Improvements to drainage s	5.00
		ii. GOC Central Workshops - Provision of transparent sh	5.00
		iii. GOC WAS-II shop - Provision of concrete road betwe	5.00
		iv. CWS/GOC - Providing of concrete flooring at 3rd BG	5.00
		v. Replacement of damaged broken rain water drain pip of 160 mm dia in various shops/CWS/GOC.	5.00
		vi. Replacing of damaged/broken north light glasses in	5.00
		vii. TPJ Jn. - Proposed construction of modern type lay Divisional Office (id: 1692/09-10) CE/OL.	26.00

Sl. No.	Division/Station	Name of work	Cost of ₹ (in lakhs)
6	MDU	Construction of ADEN Office, ADSTE Office, SSE/Works Office, SSE/P.Way Office.	104.00
7	CE/CN/ERS	Nil	
8	CE/CN/MS	i) Erode AC Electric loco shed 120-175 locos.	1274.00
		ii) BBQ - Removed of deficiencies of coach maintenance infrastructure.	1250.00
		iii) PER - Loco works modernisation of workshop.	11480.00
		iv) PER - Modernisation of Electrical Workshop on Techno Economic basic.	498.42
		v) PER-CWS - Extension of paint slop from line 1 to 9 m eastern side.	1897.00
		vi) PER - CW - Modernisation of workshop.	9567.00
		vii) RPM - Extension of AC Loco Shed for to hold 50 - 100 locos.	5717.00
9	MTP	Nil	
(II) Works costing less than Rs. 5 lakhs each.			
1.	MAS	Reconstruction of CTFO/OHE/PON office and construction of tower wagon shed at PON for OHE depot. Agt. No.87/Works/MAS of 22.11.10.	450000.00
2.	SA	Nil	
3.	PGT	Nil	
4.	TVC	Nil	
5.	TPJ	Nil	
6.	MDU	Nil	
7.	CE/CN/ERS	Nil	
8.	CE/CN/MS	Nil	
9.	MTP	Nil	

14. Flood Investigation and related subjects 2012-13

A. A Review of Vulnerable Bridges and Reaches:

a. A special organization 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 Organization/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 2012-2013, a total of 275 Nos have been classified as vulnerable and problematic from consideration of waterway and floods. During the year 2012-2013, Flood Organization has investigated a total Number of 92 Nos bridges and reaches including Rebuilding, Breaches, GAD clearance, other reference received from the State Authorities and NOC on flood point of view and respective recommendations were communicated to the Divisions.

B. River Gauging and Survey Works :

During the monsoon of 2012-2013, 4 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, Puduchery, Andhra Pradesh and Karnataka.

During the year 2012-13 the above meeting was held for Tamilnadu Andhra Pradesh and Karnataka on 04.10.2012, 16.05.2012 and 08.06.2012 respectively.

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, Andhra Pradesh, 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.

E. Breaches and washaways

Details of breaches and washaways occurred during the year 2012-13 as follows :

Section	Date	Month	Year	Location (Km./Post)		Remarks
<u>Chennai Division</u>						
MAS-GDR	4	12	2013	Br.No.167	water level r	ove danger level
<u>Salem Division</u>						
MTP-UAM	8	8	2012	9/2-3	Slips	
MTP-UAM	13	10	2012	12/0-1	Slips	
MTP-UAM	13	10	2012	12/6-7	Slips	
MTP-UAM	13	10	2012	13/7-8	Slips	
MTP-UAM	13	10	2012	14/4-5	Slips	
MTP-UAM	13	10	2012	20/5-6	Slips	
MTP-UAM	14	10	2012	11/7-8	Slips	
MTP-UAM	14	10	2012	11/8-9	Slips	
MTP-UAM	16	10	2012	12/7-8	Slips	
MTP-UAM	21	10	2012	10/3-4	Slips	
MTP-UAM	21	10	2012	11/9-12/0	Slips	
MTP-UAM	21	10	2012	22/8-9	Slips	
MTP-UAM	21	10	2012	24/6-7	Slips	
MTP-UAM	21	10	2012	26/1-2	Slips	
MTP-UAM	21	10	2012	26/2-3	Slips	
MTP-UAM	21	10	2012	27/607	Slips	
MTP-UAM	21	10	2012	29/0-1	Slips	
MTP-UAM	21	10	2012	29/1-2	Slips	
MTP-UAM	21	10	2012	29/200-300	Slips	
MTP-UAM	21	10	2012	28/600-800	Slips	
MTP-UAM	21	10	2012	28/9-29/2	Slips	
MTP-UAM	21	10	2012	26/1-3	Slips	
MTP-UAM	21	10	2012	24/6-7	Slips	
MTP-UAM	21	10	2012	22/8-9	Slips	
MTP-UAM	21	10	2012	21/8-9	Slips	
MTP-UAM	21	10	2012	13/2-3	Slips	
MTP-UAM	21	10	2012	12/4-13/2	Slips	
MTP-UAM	9	3	2013	9/2-3	Slips	
MTP-UAM	9	3	2013	10/6-7	Slips	

F. List of bridges/reaches investigated category wise (2012-13)

Sl.	Division	Section	Br. No.	Km.	Exg.	Prop.
Rebuilding						
1	PGT	PTJ - SRR	745	576/400-500	1x3.66m Arch	1: 2.57 RCB
2	PGT	SRR - MAQ	760	581/000-100	1x3.66m Arch	1: Shaped RCB
3	PGT	SRR - MAQ	889	629/800-900	1x0.91m RC	1: 2.00m RCB
4	PGT	SRR - MAQ	953	658/500-600	1x1.83m RC	1: 1.75m RCB
5	MAS	AJJ-RU	26	78/900-79/00	1x1.83m A D/L	1: .5m RCB up,dn
6	MAS	AJJ-RU	26	78/900-79/00	1x1.83m RS U/L	1: .5m RCB up,dn

Sl.	Division	Section	Br. No.	Km.	Exg.	Prop.
7	MAS	AJJ-RU	27	79/200-300	1x0.91m SD D/L	1X1.2X1.50m RCB up,dn
8	MAS	AJJ-RU	27	79/200-300	1x0.91m RS U/L	1X1.2X1.50m RCB up,dn
9	MAS	AJJ-RU	28	79/000-100	1x0.91m SD D/L	1X1.2X1.00m RCB up,dn
10	MAS	AJJ-RU	28	79/000-100	1x1.83m RS U/L	1X1.2X1.00m RCB up,dn
11	MAS	AJJ-RU	32	80/13-15	1x0.61m SD	1X1.2X1.20m RCB up,dn
12	MAS	AJJ-RU	32	80/12-14	1x0.61m SD	1X1.2X1.20m RCB up,dn
13	MAS	AJJ-RU	33	80/20-22	1x0.91m SD	1X3.75X1.50m RCB up,dn
14	MAS	AJJ-RU	33	80/19-21	1x0.91m SD	1X3.75X1.50m RCB up,dn
15	MAS	AJJ-RU	34	80/32-34	2x0.91m SD	Clouser
16	MAS	AJJ-RU	34	80/31-33	2x0.91m SD	Clouser
17	PGT	SRR - NIL	1	2/800-900	1x1.83m Arch	1X2.00X2.50 RCB
18	PGT	SRR - NIL	44	15/600-700	1x1.83m Arch	1X2.00X2.50 RCB
19	PGT	SRR - NIL	168	58/800-900	2x1.22m SD	1X2.50X2.50 RCB
20	MAS	AJJ-RU	38	81/12-14	2x0.91m SD	1X2.50X2.00 RCB
21	MAS	AJJ-RU	38	81/12-14	2x0.91m SD	1X2.50X2.00 RCB
22	MAS	AJJ-RU	40	82/6-8	1x0.61m SS	1X1.2X1.50m RCB
23	MAS	AJJ-RU	40	82/5-7	1x0.91m RP	1X1.2X1.50m RCB
24	MAS	AJJ-RU	41	82/12-14	1x0.61m SS	1X1.2X1.50m RCB
25	MAS	AJJ-RU	41	82/11-13	1x0.61m SS	1X1.2X1.50m RCB
26	MAS	AJJ-RU	44	82/28-30	1x0.61m SS	1X1.2X1.50m RCB
27	MAS	AJJ-RU	44	82/27-29	1x0.61m SS	1X1.2X1.50m RCB
28	MAS	AJJ-RU	45	83/2-4	1x0.61m SS	1X1.2X1.20m RCB
29	MAS	AJJ-RU	45	83/1-3	1x0.61m SS	1X1.2X1.20m RCB
30	MAS	AJJ-RU	46	83/8-10	1x0.61m SS	1X1.2X1.50m RCB
31	MAS	AJJ-RU	46	83/7-9	1x0.61m SS	1X1.2X1.50m RCB
32	MAS	AJJ-RU	49	84/14-16	2x0.91m SS	1X2.00X1.50 RCB
33	MAS	AJJ-RU	49	84/13-15	2x0.91m SS	1X2.00X1.50 RCB
34	MAS	AJJ-RU	52	86/15-17	1x0.61m SS	1X1.2X1.50m RCB
35	MAS	AJJ-RU	52	86/14-16	1x0.61m SS	1X1.2X1.50m RCB
36	MAS	AJJ-RU	55	87/2-4	1x0.91m SS	1X1.2X1.50m RCB
37	MAS	AJJ-RU	55	87/1-3	1x0.91m SS	1X1.2X1.50m RCB
38	MAS	AJJ-RU	57	87/18-20	1x0.91m SS	1X1.2X1.50m RCB
39	MAS	AJJ-RU	57	87/17-19	1x0.91m SS	1X1.2X1.50m RCB
40	MAS	AJJ-RU	59	88/33-35	2x0.91m SS	1X2.00X1.50 RCB
41	MAS	AJJ-RU	60	89/5-7	1x0.61m SD	1X1.2X1.50m RCB
42	MAS	AJJ-RU	62	90/17-19	1x0.91m SD	1X1.0X1.50m RCB
43	MAS	AJJ-RU	63	90/20-23	1x0.61m SD	1X1.0X1.50m RCB
44	MAS	AJJ-RU	66	93/1-3	1x0.91m SD	1X1.2X1.00m RCB
45	MAS	AJJ-RU	67	91/17-19	1x0.91m SD	1X1.2X1.00m RCB
46	MAS	AJJ-RU	68	91/21-23	1x0.61m SD	1X1.2X1.00m RCB
47	TPJ	TVNL-PRKL	50	180/000-100	1x1.22m RC SI	2X1.2X1.20m RCB
GAD						
1	TVC	NCJ-TEN	588	360/515	2x8.67m SKEW G	Exten as 1x23.43m U
2	CN	VM-KPD	226	94/8-9	1X6.10m G	1X6.0m RCB
3	CN	MAQ-PANB	43	Ch.22746.61	2x9.14m RCC slab	2X9.14m PSC Slab

Sl.	Division	Section	Br. No.	Km.	Exg.	Prop.
4	CN	MAQ-PANB	2155	Ch.21096	1x12.20m RCC Slab	1x12.20m PSC U G
5	CN	MAQ-PANB	24	15-08-12	1X18.30m+9x18.30m G	10X18.33m PSC G
6	CN	AMBAL-HARIEAK-221	Ch:82400		2x10.0m RC Sl,1X20mC	2x10mpsc sl,1x20mpsc u
7	CN	CNGR-TRVL	153	90/7-8	4X12.19m G	4X11.06 m PSC I G
8	CN	CNGR-TRVL	163	87/9-10	3X9.14 m G	3X9.15 m PSC SL
9	CN	ERN-KYJ	217	74/300-400	1x12.19m G	1x12.20m PSC SL
10	CN	CNGR-TRVL	145		3x9.14m G	3X9.15 m PSC SL
11	CN	PUU-EDA	2114A	709/800-900	1X18.30m G	1x24.4m PSC G
12	CN	KUMM-TUVR	EAK31	Ch.10230	29x30.10m G	29x29.60m G
13	PGT	HAS-MAQ	660	180/500-600	1x4.85m RCB	1x4.85 RCB Ext.
14	RVNL	VM-TPJ Crd	137	220/000-100	2x8.99+1x7.77 G	3X17.885 U G
15	RVNL	VM-TPJ Crd	379	329/200-300	1x12.0m G	2X6.0X2.978m RCB
16	RVNL	VM-TPJ Crd	393	333/700-800	1x12.0m G	2X6.0X3.678m RCB
17	RVNL	VM-TPJ Crd	397	334/300-400	2X8.7m G	2X9.14m RCB(SK)
18	MAS	AJJ-RU	129	112/25-27/326/670	2X6.85m G	2X6.0m RCB
19	RVNL	UTR-SRGM	375	327/567	45X18.0m PSC Bo G	45X16.885m PSC Bo G
20	PGT		173	0/8-9	1X6.1m G SK	1X6.10m PSC SK Repla
21	RVNL	UTR-SRGM	374	326/475	1X18.0m PSC Bo G	2X9.0m RCC BOX
22	MDU	SCT - QLN	2139	716/300-500	9x12.20+2x18.30m G	Jacketting & replacement
23	MAS	AJJ-JTJ	593	207/6-8	1X0.91m SD	1X1.2X1.2m RCB
24	CN	PGT-POY	10	5/11-12	1x12.19m G	1X18.3m PSC BOX G
25	MAS	AJJ-JTJ	520	173.5-7	1X0.91m SD	1X1.2X1.2m RCB
26	MAS	AJJ-JTJ	521	173/13-15	1X091m SD	1X1.5X1.5m RCB
27	CN	ERS-ALLP-KYJ EAK200		75/300-400	3x10.00m RCC	3x10.00m PSC
28	CN	ERS-ALLP-KYJ EAK188		71/800-900	2X10.0sl+1x20.0m G	2x10.0sl+1x20.0 U G
29	RVNL	VM-TPJ	150	223/600-800	5x12.0 m PSC BOX	5X11.80 m EXT BOX
30	RVNL	VM-TPJ	153	225/500-600	3X11.50m PSC BOX	3X11.81m PSC U EX
31	RVNL	VM-TPJ	150A	223/900	-	3x2x4.m BOX
32	RVNL	VM-TPJ	151A	224/400	-	3x2x4.m BOX
33	RVNL	VM-TPJ	151B	224/800	-	3x2x4.m BOX

SIDING

1	PGT	at KJKD	ED - PGT	Proposed siding for M/S BEML At KJKD
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Closure

1	PGT	POY - PGT	16	7/14-15	1 x 0.61m RP Syphon
2	PGT	NTVT-MAJN	672	3/900-4/000	1 x 1.20m RCP

NOC on flood point of view

1	MAS	MSB-TBM		25/700-800
2	PGT	SRR - MAQ		883/800-900
3	MAS	Korattur		11/17a-19a
4	MAS	MSB-TBM		25/700-800
5	TVC	TCR yd		31/900-32/000
6	TVC	ERN yd		103/400-500
7	MAS	MN yd		19/500-600
8	PGT	WH-ETR		671/400-500
9	PGT	WH-ETR		673/0-100

14B-Rehabilitation of Bridges : 2012-13

Sl. No.	Name of Work	No. of Bridges where work has been completed.	No. of Bridges where work in progress.
	(a) Regirdering:	0	2
	(i) Replacement of weak/corroded girders with new girders.	4	6
	(ii) Strengthening of weak/corroded girders	5	2
	(b) Replacement of existing girders/ timber top with RCC slab.	0	0
	(d) Repl. of exg weak/corroded girders with new girders including strengthening of sub-structure.	0	0
14.B	(e) Rebuilding of existing weak bridges	27	36
	(f) Miscellaneous bridge works including provision of centralised bearing, renewal of bed-blocks, etc.	2	0
	Total of items (a) to (f)	38	44
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 2012-13 :

(a) Works completed

(i) No. of bridges : 10 (Ten)

1. ROB in lieu of LC.No. 105 @ km. 288/8-10 in between Buddiraddipati-Bommididi in TJT-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 between Jolarpettai - Tirupattur.
9. ROB in lieu of L.C. No.118 @ km 120/7 - 8 between Gomangalam and Pollachi.
10. ROB in lieu of LC No.69 @ Km. 84/21 & 85/1-Maduranthakam

(b) Works in Progress

(i) No. of bridges : 60 (Sixty)

(ii) Details

1. ROB in lieu of LC.No.1(A) @ km. VK./6- VK.7 between Vyasarpadi Jeeva - Korrukkupet.
2. ROB in lieu of LC No. 1 at km 1/700 - 800 between Chengelpet - Palayaseevaram.
3. RUB in lieu of LC.No.2 @ km 9/24 - 26 between Villivakkam - Ambattur.
4. ROB in lieu of LC.No.5 @ km 13 /4-6 between Korattur - Pattaravakkam stations.
5. ROB in lieu of LC: 5 @ km 3/1-2 between Dindigul - Akkaraipatti.
6. RUB in lieu of LC.No.5 @ km BB.2/7 -9 between Royapuram - Washeramanpet.
7. ROB in lieu of LC: 9 @ km. 10/19-21 between 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 between Thiruninravur - Tiruvallur.
10. ROB in lieu of LC No. 21 @ km.21/43 - 45 in between Coimbatore and Podanur.
11. ROB in lieu of LC No. : 29 @ km. 30/8-9 between Akkarapatti-Ottichatram.
12. ROB in lieu of L.C.No. 32B @ km.287/600-700 between 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 between 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 - Tirupattur.
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 - Thiruppur.	55. ROB in lieu of LC No bet Elathur and Quila	West hill) @ km. 688/100 - 200
26. ROB in lieu of LC.No. 132 @ km. 440/26-28 between Uthukuli & Tiruppur.	56. ROB in lieu of LC N betw Badagara - Mu	(Kinatty) @ km.714/900-715/0
27. RUB in lieu of LC:133 @ km. 441/10-12 bet Uthukuli & Thiruppur	57. ROB in lieu of LC No bet Mahe - Badagara	(unjipally) @ Km. 721/400 - 500
28. ROB in lieu of LC:134 (Vanchipalayam Yard) at km. 450/13-15	58. ROB in lieu of LC N Payyanur and Thrikka	Payyanur) @ km.787/15 bet
29. ROB in lieu of LC No. 139 @ km. 459/30-32 in Somanur yard	59. ROB in lieu of LC. No Taduku stations.in AJ	km. 111/10-12 between Puttur- action.
30. ROB in lieu of LC No.143 @ km. 468/18 - 20 in Sular Road yard.	60. ROB in lieu of LC. No 8-9 between Quilon	Mayyanad-SP Gate) @ km. 156/ yyanad.
31. ROB in lieu of LC No.144 (Irugur yard) @ km. 475/22 - 24	Para-14-E (ii) Road Over on Deposit terms (NHA	
32. ROB in lieu of LC. 146 km. 479/22-24 between Irugur and Pothanur.	a) Works completed:	
33. ROB in lieu of LC:150 @ km. 488/30-489/2 bet Podanur - Madukkarai.	(i) No. of bridges : 3 (Th	
34. ROB in lieu of LC:156 @ km. 198/8-9 bet Ulundurpet & Puvanur	1. Add. 2 lane to the exg. Tiruverumbur	
35. ROB in lieu of LC No.166 @ Km. 211/300 - 400 between Cuddalore port and Capper Quarry.	2. Samayanallur-Solavanc at km. 481/7-8.	
36. ROB in lieu in LC No. 168 @ 215/9-216/0 in between Pavanur-Vridhachalam.	3. Add. 2 lane to the exg. F Ariyamangalam.	
37. ROB in lieu of L.C.170 @ Km.218/700-800 between Virudhachalam-Talanallur.	b) Works completed:	
38. ROB in lieu of LC No.181 @ Km. 236/1-2 in between Pennadam - Mathur.	(i) No. of bridges : 3 (Th	
39. ROB in lieu of L.C. No. 216 (Sirkhazhi) @ km. 262/600 in between Kollidam and Sirkazhi.	(ii) Details :	
40. ROB in lieu of LC No.228 @ KM. 313/3-4	1. Six lane ROB in lieu of 351 at Rly. km. 429/3-4 between stations.	
41. ROB in lieu of LC:248 @ km. 341/3-4 between Srirangam & Tiruchchirappalli Town.	2. Two lane ROB @ Rly 122/386 between Olakkur and	
42. ROB in lieu of L.C.No 279 @ km. 375/800 -900 bet Samudram - Manapparai.	3. ROB by the side of exi OB No. 673 at Rly. km. 3/700-800 dy.	
43. ROB in lieu of LC:281 @ km. 377/100 - 200 between Manapparai - Chettipatti.	Para : 14 E (iii) Other	
44. ROB in lieu of L.C. No.309 @ km. 372/7-8 in between Budalur and Solamgampatti stations.	(a) works Completed	
45. ROB in lieu of LC:325 @ Km.406/13-14 between Tiruchchirappalli-Kumaramangalam.	(i) No. of bridges : 3 (Th	
46. ROB in lieu of L.C. No 366 @ km. 496/16 - 497/1 between Tiruparankundram and Madurai stations.	1. ROB in lieu of LC No km. 15/300-400 (Kattilangadi) in cherry.	
47. ROB in lieu of L.C No.370 @ km. 500/6-7 between Madurai & Tiruparankundram.	2. ROB in lieu of LC No. 6 @ km. 97/800-900 in bet	
48. ROB in lieu of LC No. 371 @ km. 501/400-500/8-9 between Tenkasi and Sengottai.	3. ROB No. 115 B betw	
49. ROB in lieu of LC No 502 @ km. 660/8 - 9 between Tenkasi and Sengottai.	(b) works in Progress	
50. ROB in lieu of LC No. 14 (Mulankunnath Kavu yard) @ km. 23/100 - 200 between Punkunam - Mulangunathukavu.	(i) No. of bridges : 2 (Tw	
51. ROB in lieu of LC No 49 (Sultanpet) @ Km. 53/10-11 between Pudunaganagaram and Palghat Town.	(i) Details :	
52. RUB in lieu of LC No.50 (Karukkutty) @ km. 64/200 - 300 bet Chalakkudy - Karukkutty.	1. Kumbakonam Bypass (P)	
53. ROB in lieu of L.C.No.54 (Korattiangadi) @ Km. 67/13-14 bet Divine Nagar - Korattiangadi.	2. Between Pattabiram demilichery stations (Outer Rind Road)—TNRDC.	
54. ROB in lieu of LC. No. 172 (Tirur) @ km. 629/7-8 on Tirur-Tanur Road.		

15. Bridge Workshops (2012-13)

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	301.000	0
2.	Fabrication of Steel works - other than Girders like Foot Over Bridges, Platform Shelters, Flood Light Towers, Tanks & Steel Cribbs, etc.,	285	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	2,856.720	0
4.	Fabrication of Permanent Way Items like Points & Crossings, Points & Crossing Sleepers, CST9 Sleepers, Reconditioning of Bearing Plates & Fish Plates, Hook/ Anchor Bolts, Jimcrow, Lifting Barriers, Winches, Push Trolleys, Dip Lorries and Motor Trolleys, etc.,	0	1,650.000	0
5.	Other items like Reconditioning of Sleepers, manufacture of Skids, Beaters and other Miscellaneous items, etc.,	0	1,176.000	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	0
	(x) RCC slab 1'-6" x 1'-6" x 0'-4"	0	0	11,978
	(xi) CC paver block for LC's	0	0	7,450
	(xii) CC KM Post	0	0	1,050
Total		285	5,983.720	20,478

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 2012–2013.

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

Gauge	Primary		Secondary	
	Through Rail Renewal	Through Sleeper Renewal	Through Rail Renewal	Through Sleeper Renewal
Broad	166.43	40.50	37.75	22.45
Metre	0.00	0.00	12.82	0.00
Total	166.43	40.50	37.75	22.45

(b) **Casual Renewals :**

Gauge	Rails (in km.)		Sleepers (Numbers)		
	Wood	Metal	Concrete	Total	
Broad	9432	94	55	84870	85019
Metre	0.00	0.00	0.00	0.00	0.00
Total	9432	94	55	84870	85019

(c) Points and Crossings Renewals :

Gauge	1 in 16	1 in 12	1 in 8-1/2	Total
Broad	0	22	133	88
Metre	0	0	0	0
Total	0	22	133	88

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

Gauge	No. of Sleepers
Broad + Metre..	608

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

Broad Gauge	Metre Gauge
206.75	0

(f) Ballast put into the track during 2012-13 (in Thousands of cu.mts.)

Total Ballast collection during the year : 552.38 Total Ballast inserted during the year :

16.2—Track Materials used during the year 2012-13. The permanent way materials used during the year 2012-13 at the time of track renewals (excluding casual renewals)**(a) Rails**

Gauge	60 kgs.	52 kgs.	90 lbs.	75 lbs.
Broad	90.21	111.49	2.48	0.00
Metre	0.00	0.00	0.00	0.00
Total	90.21	111.49	2.48	0.00

(b) Sleepers

Gauge	Concrete	Steel	CST-9	Wooden
Broad	62.95	0.00	0.00	0.00
Metre	0.00	0.00	0.00	0.00
Total	62.95	0.00	0.00	0.00

(c) Composite wooden blocks and converted sleepers

Gauge	Composite Nos.	Wooden Blocks In Nos.
Broad	0	137
Metre	0	0
Total	0	137

16.3—Materials in the track 2012-13—(Running Track) :**(a) Rails**

Gauge	60 Kg.	52 kg.	90 lbs.	75 lbs	60 lbs.	50 lbs.
BG	1134	5094	10			
MG			7		38	
Total	1134	5094	17	0	38	

(b) Sleepers

Gauge	Concrete	Steel	CST-9	Wooden
Broad	6221	7	7	1
Metre	7	19	19	1
Total	6228	26	26	2

(in Nos.)

Total
243
0
243

(in sets)

Total
206.75

2

Materials used during the

(in track kilometres)

60 lbs.	50 lbs.	Total
0.00	0.00	204.18
0.00	0.00	0.00
0.00	0.00	204.18

(in track kilometres)

others	Total
0.00	62.95
0.00	0.00
0.00	62.95

(in Nos.)

Converted steel Sleepers Nos.	Total
0	137
0	0
0	137

(in Track Kilometres)

others	Total
	6238
	46
0	6284

(in Track Kilometres)

others	Total
2	6238
	46
2	6284

(c) Turnouts

(in Nos.)

	1 : 16		1 : 12		1 : 8.5		1 : 6	Total	
	BG	MG	BG	MG	BG	MG	BG	BG	MG
PSC ..	70	0	2560	0	978	0	0	3608	0
Steel ..	0	0	0	0	0	2	0	0	2
Wooden ..	0	0	0	0	0	31	20	0	51
Total ..	70	0	2560	0	978	33	20	3609	53

16.4.-Welding of Rail Joints :

(a) **New Track Welded** : Total length of track on which rail joints was done during the year 2012-13.

(Figures in Nos.)

Gauge	Total No. of Joints welded
Broad + Metre	21,706

(b) **Total Welded Track** :

Total length of welded track as on 31st March 2013

(Figures in Track Kms.)

Gauge	Short Welded Panels	Long Welded Rails/Continuous Welded Rails	Total
Broad ..	887	5307	6194
Metre ..	0	28	521
Total ..	887	5307	6194

(c) **Flash Butt Welding Plant** :

The work done at the Flash Butt Welding Plant in the Railway 2012-13.

Plant at	Number of joints Welded		Total No. of joints welded	Average cost per joints ₹
	60 Kgs.	52 Kgs.		
Arakkonam	16,503	5,889	22,392	2,243

16.5-Speed Restriction :

(a) Speed Restrictions in force on 31st March 2013 due to poor condition of track :-

(in Kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2013	0.00	0.00	0.00

(b) Speed Restriction in force as on 31st March 2013 due to reasons other than the above :-

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

(in kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2013	342.53	0.00	342.53

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

(in kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2013	18.13	0.00	18.13

17. Block Renewals

Renewals of the following track kilometres were carried during 2012-13 :-

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

Division	Broad Gauge	Metre Gauge
Chennai ..	84.18	0.00
Salem ..	20.31	0.00
Palghat ..	19.54	0.00
Trivandrum ..	39.62	0.00
Tiruchchirappalli ..	19.52	0.00
Madurai ..	21.01	0.00
Total ..	204.18	0.00

(ii) Through sleeper renewals (Primary & Secondary)

Division	Broad Gauge	Metre Gauge
Chennai ..	43.21	0.00
Salem ..	1.69	0.00
Palghat ..	9.98	0.00
Trivandrum ..	6.89	0.00
Tiruchchirappalli ..	1.18	0.00
Madurai ..	0.00	0.00
Total ..	62.95	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)
1.	MAS	MCPT Gutter roof sheet damage (during cyclone)	4.00
2.	SA	Nil	
3.	PGT	Land slide in WRA-KJKD stations.	3.50
4.	TVC	Nil	
5.	TPJ	Nil	
6.	MDU	MNM-PBM section: Due to high water current in Sea and poor Anchorage of Ship which hit Pamban bridge pier 121.	App.20.00
7.	CE/CN/ERS	Nil	
8.	CE/CN/MS	Nil	
9.	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	..	Nil	
2.	SA	Podanur	i) Construction of OHT 9000 ltrs capacity and replacement at 20 block area (id:1360/08-09) CE/OL. ii) Tiruppur - Construction of OHT 45000 litres capacity arrangements from well to good shed area (id:1849/08) iii) Coimbatore Jn. - Provision of Reverse osmosis plant for drinking water to passengers.	pipe line grid 49.50 ing pipe line 45.00 providing 29.00
3.	PGT	..	Nil	
4.	TVC	..	Nil	
5.	TPJ	..	Nil	
6.	MDU	TEN	TEN- Reconstruction RCC overhead tank 90000 litre colony in lieu of corroded steel tank.	ly in Jawahar 17.23
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
<i>ii) Works costing less than Rs. 5 lakhs each.</i>				
1.	MAS	..	Nil	
2.	SA	..	Nil	
3.	PGT	..	Bailing out of well no.3 and repairs to protection wall from well no.3 to main line.	hirs to pipe line 2.36
4.	TVC	..	Nil	
5.	TPJ	..	Nil	
6.	MDU	..	Nil	
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
(B) Works in Progress.				
<i>i) Works costing more than ₹ 5 lakhs each.</i>				
1.	MAS	TBM	Replacement of the existing CI Tank over steel stag tank of capacity).	ke 15 with steel 46.03
2.	SA	SA Divn.	Provision of drinking water facilities at goods shed. PLMD & CBF.	SAMT, eD, IGU, 50.00
		Podanur	Provision of individual storage water tank at Staff (augmentation of water supply by drilling three more wells and pipe line.	is (400 Nos.) and 49.00
		SA Divn.	Provision of purified drinking water to stations through systems at CBE (id:1506/09-10) CE/OL.	ter treatment 20.00
3.	PGT	CAN & CLT	Construction of OHT 90000 litres.	47.56
4.	TVC	ALLP	Repairs to water hydrants	9.33
		TVC	Drainage arrangements at Poojappura, Thampanoc	ah colonies 179.39
		Emakulam	Ernakulam Coaching complex - Watering arrangement dia pipe from Muvatupuzha river near Piravam Road.	laying 200 mm. 806.00
5.	TPJ	VM	VM-TPJ Chord line - Provision of 200 mm dia bore well with submerged pumps and all Manned LCs in between VM-TLNR (LC No.127, 152A, 153, 157, 166, 167 & 170 in SE/P/AVRI section)	7 Nos. in LCs. 6.00 tank provision of 10.00
6.	MDU	..	1. DG: Construction of RCC tank including renewal Hanumanthanagar colony and 2. MP & PDKT - Construction of RCC tank 90000 litre CI corroded tank.	line in 99.00 city in lieu of 13.14
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
Works in Progress				
<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/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
(II) Improvements to sanitation.				
(A) Works Completed.				
<i>(i) Works costing more than ₹ 5 lakhs.</i>				
1.	MAS	AJJ	Improvement to replacement of sewage water pipe line.	183.76
		SG	SG - Improvements to drainage system.	34.24
2.	SA	..	Nil	
3.	PGT	..	Nil	
4.	TVC	..	Nil	
5.	TPJ	GOC	DSL- Loco shed pit line flooring, partition, drainage arrangement and arresting of seepage.	80.00
6.	MDU	..	Nil	
7.	CE/CN/ERS	..	—	
8.	CE/CN/MS	..	Nil	
9.	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/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
B. Work in Progress				
<i>(i) Works costing more than ₹ 5 lakhs.</i>				
1.	MAS	MAS-GDR	Improvements to drainage arrangements at PON and GPD	53.68
2.	SA	KRR	Station improvements of drainage arrangements to south and north railway colony	5.00
		ADEN/KRR	ADEN/KRR - Subdivision - Proposed septic tank with drainage arrangements to KLT & KMD.	5.00
		KRR	KRR - Provision of drainage arrangements.	10.00
		Erode	Erode - Cleaning and maintenance of existing sewer line in SE/W/ED section for a period of 2 years.	21.00
3.	PGT	..	-	
4.	TVC	..	Improvements to drainage arrangements at Poojappura, Thampanoor & Pettah colonies.	179.39
5.	TPJ	TVR	TVR - Provision of drainage to ease out of the stagnated water from carriage care centre.	5.00
		..	Provision of modular toilets to Gate Lodges at 20 LCs in SE/P.Way/KMU and 20 LCs in SE/P.Way/A/TVR section.	30.00
		VM-TPJ	VM-TPJ Chord line sanitary arrangements in LLI section.	6.00
		GOC	GOC-DSL Loco shed pit line flooring, partition, drainage arrangement and arresting of seepage.	80.00
		..	GOC - Central workshops - Improvements to drainage system.	5.00
6.	MDU	..	-	
7.	CE/CN/ERS	..	-	
8.	CE/CN/MS	..	-	
9.	MTP	..	-	

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
(II) Works costing Less than ₹ 5 lakhs.				
1.	MAS	..	Nil	
2.	SA	..	Nil	
3.	PGT	..	Nil	
4.	TVC	..	Nil	
5.	TPJ	..	Nil	
6.	MDU	..	Nil	
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
(III) Other Staff Amenity work				
A. Works completed.				
(i) Works costing more than ₹ 5 lakhs.				
1.	MAS	..	Nil	
2.	SA	ED	Construction of additional 2 suits in first floor of ORH.	9.9
3.	PGT	PGT	Proposed toilets at gate lodges of LCs. between PTJ-f	18.00
		MAQ	Brightening up of staff quarters office.	13.83
		CLT	White washing/colour washing of staff Quarters.	8.55
4.	TVC	..	Rest room for track maching staff	12.49
5.	TPJ	..	Nil	
6.	MDU	..	Improvements to kitchen toilet and bathroom of Type	50.00
			TN- Renewal of perished doors and windows in Typ	60.00
			renewal heavily corroded pipelines in health unit area	
			MMM - Corporate welfare plan reconstruction of a ne	59.22
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
(ii) Works costing Less than ₹ 5 lakhs.				
1.	MAS	..	Nil	
2.	SA	..	Nil	
3.	PGT	..	CAN - Brightening up of staff quarters.	3.83
			CAN - Repairs of Staff Quarters	3.48
			VAPM - Repairs of Staff Quarters	0.57
			CLT - Brightening up of ORH, SRH, Gr.D rest room.	0.45
			CLT - Repairs of Staff Quarters.	2.38
			CLT - Repairs to colony road.	3.88
			ETR - Repairs to compound wall.	0.36
4.	TVC	..	Nil	
6.	TPJ	..	Nil	
6.	MDU	..	Nil	
7.	CE/CN/MS	..	Nil	
8.	CE/CN/ERS	..	Nil	
9.	MTP	..	Nil	
B. Works In Progress				
(i) Works costing more than ₹ 5 lakhs.				
001.	MAS	MS	Construction of Staff rest room.	16.09
002.	SA	Conoor	Re-roofing of Type I Quarters 30 units (id.1543 LA	30.00
		Udagamandalam	Re-roofing of Type I Quarters 30 units (id.1568 LA	28.00
		SA	Construction of Railway Institute (id.1268/09-10)CE	9.9
		SA	Construction of Officers Club (id.1269/09-10) CE/O	9.9
		ED	Improvements to colony area at Erode.	5.00

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
3.	PGT		Re-roofing with RCC slab and repairs.	33.00
			Leak proofing of flat roof of Staff Quarters Type I & II.	21.00
			Reroofing with RCC slab and repair to doors & windows (Type II 28 units).	59.00
4.	TVC		1. Repair to staff quarters Thampanoor Poojappura.	55.48
			2. Repairs to staff quarters at Poojappura.	76.61
			3. TVC Coaching depot. Building for staff Canteen.	12.70
			4. TVC Repairs to toilet of Divisional Office.	44.93
5.	TPJ		Provision of water proof tar felt over the Mangalore tiled roof of Staff Quarters at BXS, VLDE, LLI, KTTR, KKPM & KLGm.	5.00
			Provision of water proof tar felt over the Mangalore tiled roof of Staff Quarters at ALU, SNDI & PNDM.	5.00
			Provision of water proof tar felt Staff Quarters at way side TVNL, ULU, VLU & KJPD.	5.00
			Replacement of ACC sheets with Galvanised sheets for shed for two wheelers parking at various locations at TPJ.	5.00
			Replacement of ACC sheets with Galvanised sheets in Kaveri club/TPJ.	5.00
			Retiling the staff quarters 24 A-D, 25 A-D, 32 Type I and type II at TTP.	5.00
6.	MDU		Construction of Supervisors rest house 4 units at SLT, TN and RMM.	180.00
7.	CE/CN/ERS		Nil	
8.	CE/CN/MS		Construction of rest house at Poes Garden as green building.	97.00
9.	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/ERS	Nil
8.	CE/CN/MS	Nil
9.	MTP	Nil

(IV) Hospital and Health units

(A) Works completed

(i) Works costing more than ₹ 5 lakhs

1.	MAS	Nil
2.	SA	Nil
3.	PGT	Nil
4.	TVC	Nil
5.	TPJ	Nil
6.	MDU	Railway hospital improvements to flooring and wall etc.
7.	CE/CN/ERS	
8.	CE/CN/MS	1. PER - Railway hospital Phase I
		2. PER - Railway hospital Phase II
		3. Construction of accommodation for relatives indoor patients.
		1637
		4419
		174
9.	MTP	Nil

(i) Works costing less than ₹ 5 lakhs

1.	MAS	Nil
2.	SA	Nil
3.	PGT	CNA
4.	TVC	Repairs to Ayurveda dispensaries
5.	TPJ	
6.	MDU	
7.	CE/CN/ERS	
8.	CE/CN/MS	
9.	MTP	
		0.63

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	Chennai.	Burn unit in Central Hospital - Perambur.	284.50
2.	SA	..	Nil	
3.	PGT	..	Repairs to Railway Hospital PGT	12.00
4.	TVC	..	Trivandrum Pettah - Provision of ICU in space near open theatre (4 bed).	9.9
			Repairs to Railway Hospital building and premises.	77.98
5.	TPJ	GOC	Construction of male, female medical ward and children in the first and second floor.	422.00
6.	MDU	..	Reconstruction of OP block in Railway Hospital and provision of oxygen plant etc.	289.00
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	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/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
(V) SCHOOLS AND HOSTELS				
(A) Works Completed.				
<i>(i) Works costing more than ₹ 5 lakhs</i>				
1.	MAS	TBM	Construction of hostel at Divisional P.Way school.	2494
2.	SA	ED	Construction of P.Way Training school for Class IV Staff and staff hostel.	49.5
3.	PGT	..	Nil	
4.	TVC	..	Nil	
5.	TPJ	..	Nil	
6.	MDU	..	Nil	
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	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/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	

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	..	Nil	
2.	SA	..	Nil	
3.	PGT	..	Nil	
4.	TVC	..	Nagercoil - Sub-ordinate rest room in first floor of station building.	9.9
5.	TPJ	..	Upgradation of training facilities at Zonal Railway training institute.	320.00
6.	MDU	..	Nil	
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	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/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
(VI) Running Room				
(A) Works Completed				
<i>(i). Works costing more than ₹ 5 lakhs.</i>				
1.	MAS	..	Nil	
2.	SA	OML	Improvement to running room at QML.	5.00
		ED	Improvements to running at ED.	8.00
3.	PGT	..	Nil	
4.	TVC	..	Nil	
5.	TPJ	TVR	Provision of Borewell at running room.	5.00
6.	MDU	..	Nil	
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
<i>(ii) Works costing less than ₹ 5 lakhs</i>				
1.	MAS	..	Nil	
2.	SA	..	Nil	
3.	PGT	CLT	Repairs to running bungalow.	3.40
		CAN	Repairs to running bungalow.	1.60
4.	TVC	..	Nil	
5.	TPJ	..	Nil	
6.	MDU	..	Nil	
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	

Staff Amenities—(Contd.)

Sl. No.	Division	Station	Name of work	Estimate Cost in lakhs
Works in Progress				
<i>(i) Works costing more than ₹ 5 lakhs.</i>				
1.	MAS			
2.	SA		Improvements to running room at Salem.	5.00
3.	PGT	..	Nil	
4.	TVC	..	1. NCJ - Construction of new running room.	57.00
			2. Improvements to hot water arrangements in the running room.	10.00
			3. Improvements to ventilation and lighting arrangements in running bungalows rest houses.	9.9
5.	TPJ	..	Nil	
6.	MDU	..	Nil	
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
<i>(ii) Works costing less than ₹ 5 lakh.</i>				
1.	MAS	..	Nil	
2.	SA	..	Nil	
3.	PGT	..	Nil	
4.	TVC	..	Nil	
5.	TPJ	..	Nil	
6.	MDU	..	Nil	
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
VII) Miscellaneous Works				
(A) Works Completed				
<i>(i) Works costing more than ₹ 5 lakhs.</i>				
1.	MAS	—		
2.	SA		PTJ - Barracks for RPF	75.00
			KETTI - Construction of building for accommodating 50 persons.	48.00
			PTJ, MTP - Re-roofing of leaky roof of Staff Quarters box section in colony.	6.35
			MTP, CBE & SUU - Replacement of back yard doors in quarters.	5.2
3.	PGT	..	Nil	
4.	TVC	..	Nil	
5.	TPJ	—	VM & MV - Renovation of TTE's rest room with all facilities including furniture.	34.00
6.	MDU	..	Nil	
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
<i>(ii) Works costing less than ₹ 5 lakh</i>				
1.	MAS			
2.	SA	PTJ	Improvements to office and store of SSE/P.Way/E/PTJ	4.1
3.	PGT	..	Nil	
4.	TVC	..	Nil	
5.	TPJ	..	Nil	
6.	MDU	..	Nil	
7.	CE/CN/ERS	..	Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	

Staff Amenities—(Concl'd.)

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		Construction of community hall at MS.	8082
		SPE	Construction of Railway Institute.	992
2.	SA	..	Nil	
3.	PGT	..	Nil	
4.	TVC		1. ERS - Construction of Railway Institute.	9.9
			2. Improvements to Thampanoor Railway Institute.	9.9
			3. Ernakulam - Construction of Railway Institute cum womens welfare organisation	9.9
			4. TVC - Replacement of age old ceiling fans provision of additional fans.	27.00
			5. TVC - Improvement to control office.	17.74
5.	TPJ		TPJ - Improvements to heritage centre building.	105.00
6.	MDU	..	Nil	
7.	CE/CN/ERS		S&T building at AMPA.	74.99
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	
<i>(ii) Works costing less than ₹ 5 lakh</i>				
1.	MAS	..	Nil	
2.	SA	..	Nil	
3.	PGT	..	Nil	
4.	TVC	..	Nil	
5.	TPJ	..	Nil	
6.	MDU		Nil	
7.	CE/CN/ERS		Nil	
8.	CE/CN/MS	..	Nil	
9.	MTP	..	Nil	

20. Level Crossing

1. No. of level crossing category-wise (As on 31-3-2013)		3. No. of level crossings where additional men were provided without upgrading during 2012-13.	Nil
Special Class	407	4. No. of level crossings upgraded during 2012-13	60
'A' Class	174	5. No. of level crossings provided with Lifting Barriers during 2012-13.	Nil
'B' Class	103	a) Inter-locked level crossings	13
'C' Class	1127	b) Non-interlocked level crossings	23
'C' Class unmanned	879		
Canal Crossing	9		
		Total	36
2. No. of level crossings manned during 2011-13		6. No. of level crossings where traffic census was taken in 2012-13 6665 and action taken in such cases.	8
a) Accident prone from ACSPF(b)/DF4/Safety Fund	60	7. No. of level crossings downgraded during 2012-13	Nil
b) From Railway Safety Works (20% segment)	Nil	8. No. of level crossings De-manned/Closed during 2012-13.	96
c) At State Government's Cost (Reimbursable From 80% Segment of RSWF)	Nil		
d) Others (MPLADS)	Nil		
		Total	60

21. Statistics of Rail Usage

(a) Rail renewal carried over on various sections during the year 2012-2013

Name of the Section	UP/DN/ SL	Year of sanction	Sanctioned Length	Exg. Rail Section	Renewal with	Length Renewed during the year	Remarks
BROAD GAUGE							
ROUTE-'A'							
Chennai Central - Gudur	UP	2009-10	27.03	52 kg	0 kg	2.88	
Chennai Central - Gudur	UP	2012-13	0.72	52 kg	0 kg	0.72	
Chennai Central - Gudur	UP	2012-13	0.72	52 kg	0 kg	0.72	
Chennai Central - Gudur	UP	2012-13	0.72	52 kg	0 kg	0.72	
Chennai Central - Gudur	UP	2010-11	7.00	52 kg	0 kg	0.70	
Chennai Central - Gudur	UP/DN	2008-09	4.33	52 kg	0 kg	2.25	
Chennai Central - Gudur	UP	2011-12	21.00	52 kg	0 kg	16.40	
Chennai Central - Gudur	UP/DN	2011-12		52 kg	0 kg	3.00	
Chennai Central - Gudur	Yard	2007-08	2.60	52 kg/90R	kg II	2.65	
ROUTE-'B'							
Chennai Central-Arakkonam	UP/DN	2011-12	12.13	60 kg	0 kg	2.78	
Chennai Central - Arakkonam	UP	2012-13	6.04	52 kg	0 kg	6.04	
Chennai Central - Arakkonam	UP Fast	2012-13	5.96	60 kg	0 kg	5.16	
Chennai Central - Arakkonam	Yard	2007-08	10.59	90R II	kg II	3.93	
Arakkonam - Jolarpettai	UP	2009-10	0.79	52 kg	0 kg	0.79	
Arakkonam - Jolarpettai	DN	2012-13	7.91	60 kg	0 kg	7.91	
Arakkonam - Jolarpettai	Yard	2010-11	5.90	90R	kg II	0.90	
Arakkonam - Jolarpettai	Yard	2008-09	8.00	90R	kg II	1.23	
Arakkonam - Renigunta	DN	2012-13	1.60	52 kg	0 kg	1.60	
Arakkonam - Renigunta	DN	2012-13	3.00	52 kg	0 kg	3.00	
Chennai Beach - Tambaram	DN slow	2012-13	9.35	60 kg	0 kg	4.40	
Chennai Egmore - Villupuram	Yard	2008-09	0.75	90 R	52 kg	0.75	
Chennai Egmore - Villupuram	SL	2010-11	4.50	52 kg	52 kg	1.00	
Chennai Egmore - Villupuram	SL	2010-11	1.20	52 kg	52 kg	0.40	
Chennai Egmore - Villupuram	SL	2012-13	6.74	52 kg	52 kg	4.90	
Chennai Egmore - Villupuram	UP	2012-13	10.50	52 kg	0 kg	2.35	
Chennai Egmore - Villupuram	UP	2012-13	1.00	60 kg	0 kg	1.00	
Chennai Egmore - Villupuram	UP	2012-13	1.00	60 kg	0 kg	1.00	
Chennai Egmore - Villupuram	UP	2012-13	2.00	60 kg	0 kg	2.00	
Chennai Egmore - Villupuram	DN	2012-13	1.00	52 kg	52 kg	1.00	
Chennai Egmore - Villupuram	SL	2012-13	1.00	52 kg	52 kg	1.00	
Chennai Egmore - Villupuram	SL	2012-13	1.00	52 kg	52 kg	1.00	
Jolarpettai - Erode	UP	2011-12	18.13	52 kg	0 kg	0.53	
Jolarpettai - Erode	DN	2011-12	7.00	60 kg	0 kg	0.33	
Jolarpettai - Erode	DN	2012-13	4.70	60 kg	0 kg	3.85	
Jolarpettai - Erode	UP	2012-13	3.40	60 kg	0 kg	2.90	
Jolarpettai - Erode	Yard	2012-13	5.79	90R/52 kg II	2 kg II	1.40	
Erode - Irugur	Yard	2010-11	0.40	90R	2 kg II	0.40	
Erode - Irugur	Yard	2010-11	2.70	90R	2 kg II	1.80	
Erode - Irugur	UP/DN	2012-13	1.58	52 kg	52 kg	1.58	
Erode - Irugur	Yard	2009-10	0.80	90R	52 kg	0.80	
Erode - Irugur	Yard	2009-10	0.75	90R	52 kg	0.75	
Erode - Irugur	Yard	2009-10	0.75	90R	52 kg	0.75	
Erode - Irugur	Yard	2008-09	0.50	90R	52 kg	0.50	
Irugur - Coimbatore - Podanur	SL	2011-12	0.90	52 kg	52 kg	0.15	
Erode - Irugur - Podanur	DN Yard	2011-12	4.58	52 kg	52 kg	2.07	
Podanur - Shoranur	UP/DN	2011-12	4.10	52 kg	52 kg	1.12	
Podanur - Shoranur	DN	2012-13	1.10	52 kg	52 kg	1.10	
Podanur - Shoranur	DN	2012-13	1.00	52 kg	52 kg	0.86	
Podanur - Shoranur	Yard	2010-11	2.45	80 BH	2 kg II	1.00	
Podanur - Shoranur	Yard	2010-11	5.44	90R	2 kg II	2.77	
Shoranur - Ernakulam	UP	2006-07	0.50	52 kg	52 kg	0.50	
Shoranur - Ernakulam	DN	2012-13	5.94	52 kg	60 kg	3.18	
Shoranur - Ernakulam	DN	2012-13	0.94	52 kg	52 kg	0.42	
Shoranur - Ernakulam	DN	2012-13	0.79	52 kg	60 kg	0.79	
Shoranur - Ernakulam	Yard	2007-08	6.32	90R	2 kg II	1.09	
Shoranur - Ernakulam	Yard	2008-09	8.33	90R	2 kg II	1.54	
Villupuram - Tiruchchirappalli (Chord)	SL	2011-12	18.60	52 kg	52 kg	9.50	
Villupuram - Tiruchchirappalli (Chord)	SL	2012-13	4.10	52 kg	52 kg	4.10	
Villupuram - Tiruchchirappalli (Chord)	SL	2012-13	1.00	52 kg	52 kg	1.00	

Name of the Section	UP/DN/ SL	Year of sanction	Sanctioned Length	Exg. Rail- Section	Rail Renewal done with	Length Renewed during the year	Remarks
ROUTE-'B'							
Villupuram - Tiruchchirappalli (Chord)	SL	2012-13	0.80	52 kg	52 kg	0.80	
Villupuram - Tiruchchirappalli (Chord)	SL	2012-13	1.20	52 kg	52 kg	1.20	
Villupuram - Tiruchchirappalli (Chord)	SL	2012-13	1.20	52 kg	52 kg	1.04	
Tiruchchirappalli - Dindigul	SL	2012-13	1.20	52 kg	52 kg	1.00	
ROUTE-'D' Special							
—Nil—							
ROUTE-'D'							
Erode - Tiruchchirappalli	Yard	2010-11	5.40	90 R	52 kg II	0.60	
Erode - Tiruchchirappalli Fort	Yard	2010-11	1.00	52 kg	52 kg	0.20	
Erode - Tiruchchirappalli Fort	DN	2009-10	1.30	52 kg	52 kg	0.69	
Shoranur - Kozhikode	DN	2009-10	1.30	52 kg	52 kg	0.25	
Shoranur - Kozhikode	DN	2012-13	0.45	52 kg	52 kg	0.45	
Shoranur - Kozhikode	DN	2012-13	3.00	52 kg	52 kg	3.00	
Shoranur - Kozhikode	SL	2011-12	1.00	52 kg	52 kg	1.00	
Shoranur - Mangalore	Yard	2010-11	11.13	90R	52 kg II	3.00	
Shoranur - Mangalore	Yard	2012-13	1.40	52 kg	52 kg II	1.40	
Kozhikode - Mangalore	Yard	2007-08	1.48	90 R	52 kg II	0.28	
Ernakulam - Thiruvananthapuram Central	Yard	2011-12	7.84	90 R	52 kg II	3.04	
Ernakulam - Thiruvananthapuram Central	Yard	2002-03	3.20	90 R	52 kg II	1.87	
Ernakulam - Thiruvananthapuram Central	SL/DN	2007-08	14.86	52 kg	52 kg	3.10	
Ernakulam - Kayankulam	Yard	2003-04	18.44	90R	52 kg II	1.53	
Ernakulam - Kayankulam	SL	2011-12	2.38	52 kg	52 kg	0.12	
Ernakulam - Kayankulam	SL	2012-13	1.70	52 kg	60 kg	1.00	
Ernakulam - Kayankulam	SL	2012-13	8.00	52 kg	52 kg	0.80	
Kayankulam - Kollam	DN	2012-13	4.52	52 kg	52 kg	4.52	
Kayankulam - Kollam	UP/DN	2011-12	1.25	52 kg	60 kg	1.25	
Kayankulam - Kollam	DN	2011-12	8.90	52 kg	52 kg	2.09	
Kayankulam - Kollam	DN	2012-13	1.00	52 kg	60 kg	1.00	
Kayankulam - Kollam	DN	2012-13	1.00	52 kg	60 kg	1.00	
Kayankulam - Kollam	UP/DN	2012-13	1.73	52 kg	52 kg	1.13	
Kayankulam - Kollam	SL	2012-13	1.45	52 kg	52 kg	0.37	
Kayankulam-Thiruvananthapuram Central	DN	2012-13	0.70	52 kg	52 kg	0.57	
Kayankulam-Thiruvananthapuram Central	DN	2012-13	1.00	52 kg	52 kg	1.00	
Kollam - Thiruvananthapuram Central	SL/UP	2010-11	5.88	52 kg	52 kg	0.10	
Nagercoil - Tirunelveli	Yard	2007-08	0.93	90 R	52 kg II	0.93	
Manamadurai - Rameswaram	Bridge	2012-13	2.10	90 R	52 kg II	0.94	
Madurai-Virudunagar-Vanchi Maniyachchi	SL	2011-12	44.78	52 kg	52 kg	8.00	
Virudunagar - Vanchi Maniyachchi	SL	2011-12	12.32	52 kg	52 kg	2.42	
Virudunagar - Vanchi Maniyachchi	SL	2011-12	9.15	52 kg	52 kg	3.70	
Virudunagar - Vanchi Maniyachchi	SL	2012-13	4.00	52 kg	52 kg	3.75	
Vanchi Maniyachchi - Tirunelveli	SL	2012-13	1.20	52 kg	52 kg	1.20	
ROUTE - E Special							
—Nil—							
ROUTE-E							
Salem - Vriddhachalam	Yard	2010-11	3.49	90 R II	52 kg II	0.50	
Salem - Mettur Dam	Bypass	2011-12	1.20	52 kg	52 kg	1.20	
Shoranur - Nilambur Road	SL	2009-10	1.16	52 kg	52 kg	0.50	
Shoranur - Nilambur Road	SL	2011-12	7.52	90 R II	60 kg	1.20	
Shoranur - Nilambur Road	SL	2011-12	1.20	90 R II	60 kg	1.20	
Ernakulam - Kochi Harbour Terminus	Yard	2004-05	5.26	90R/75R	52 kg II/90R II	2.48	
Thirur - Guruvayur	SL	2008-09	0.90	90R	60 kg	1.46	
Thirur - Guruvayur	SL	2010-11	9.32	90 R II	60 kg	1.00	
Thiruvananthapuram Central - Nagercoil	SL	2010-11	1.20	52 kg	52 kg	0.86	
Thiruvananthapuram Central - Nagercoil	Yard	2005-06	0.60	52 kg	52 kg II	0.60	
Tiruchchirappalli Fort - Tiruchchirappalli Jn.	Yard	2010-11	1.56	90 R II	52 kg II	1.56	
Thajavur - Tiruvarur	Yard	2012-13	1.50	90 R II	52 kg II	0.32	

METRE GAUGE

—Nil—

21. (b) Average traffic in Gross Tonnes per running track kilometrage carried over on various sections during the year 2012-2013

(in millions)	
Section	GMT carried during 2012-13
(1)	(2)
Broad Gauge	
Group-A	
Chennai Central - Gummidipundi (UP)	20.51
Gummidipundi - Sullurupeta (UP)	16.16
Sullurupeta - Gudur (UP)	14.44
Chennai Central - Gummidipundi (DN)	27.75
Gummidipundi - Sullurupeta (DN)	23.40
Sullurupeta - Gudur (DN)	21.68
Group-B	
Chennai Central - Tiruvallur (UP) FAST	26.64
Chennai Central - Tiruvallur (DN) FAST	39.02
Chennai Central - Tiruvallur (UP) SLOW	15.39
Chennai Central - Tiruvallur (DN) SLOW	15.39
Tiruvallur - Arakkonam (UP)	32.00
Tiruvallur - Arakkonam (DN)	44.38
Arakkonam - Katpadi (UP)	27.08
Arakkonam - Katpadi (DN)	41.71
Katpadi - Jolarpettai (UP)	27.03
Katpadi - Jolarpettai (DN)	41.66
Arakkonam - Tiruttani (UP)	22.93
Arakkonam - Tiruttani (DN)	27.41
Tiruttani - Renigunta (UP)	20.97
Tiruttani - Renigunta (DN)	25.44
Jolarpettai - Salem (UP)	21.97
Jolarpettai - Salem (DN)	33.32
Salem - Erode (UP)	24.47
Salem - Erode (DN)	30.91
Erode - Irugur (UP)	21.08
Erode - Irugur (DN)	26.89
Irugur - Coimbatore - Podanur (SL)	26.89
Irugur - Podanur (SL)	21.08
Podanur - Palakkad (UP)	17.64
Podanur - Palakkad (DN)	22.32
Palakkad - Shoranur (UP)	18.03
Palakkad - Shoranur (DN)	22.24
Shoranur - Ernakulam (UP)	18.96
Shoranur - Ernakulam (DN)	20.99
Chennai Beach - Tambaram (UP) Suburban	22.45
Chennai Beach - Tambaram (DN) Suburban	22.45
Tambaram - Chengalpattu (UP) Suburban	7.48
Tambaram - Chengalpattu (DN) Suburban	7.48
Chennai Beach - Chengalpattu	23.57
Chengalpattu - Melmaruvathur	23.83
Melmaruvathur - Villupuram	23.83
Villupuram - Tiruchchirappalli (Chord)	17.75
Tiruchchirappalli - Dindigul	13.13
Group - C	
Chennai Beach - Velachery (UP)	7.46
Chennai Beach - Velachery (DN)	7.46
Group-D Special	
- Nil -	
Group-D	
Erode - Tiruchchirappalli Fort	14.19
Ernakulam - Kottayam - Kayankulam	21.51
Kayankulam - Kollam (UP)	12.79
Kayankulam - Kollam (DN)	8.72
Kollam - Thiruvananthapuram Central (UP)	16.67
Kollam - Thiruvananthapuram Central (DN)	8.91

(in millions)	
Section	GMT carried during 2011-12
(1)	(2)
Group	
Ernakulam - Alappuzha	14.80
Alappuzha - Kayankulam	12.31
Shoranur - Kozhikode (DN)	13.75
Shoranur - Kozhikode (UP)	14.85
Kozhikode - Kannur (DN)	13.28
Kozhikode - Kannur (UP)	12.59
Kannur - Mangalore (DN)	12.27
Kannur - Mangalore (UP)	10.40
Mangalore - Thokkur	6.55
Karur - Dindigul	8.45
Dindigul - Madurai (UP)	10.93
Dindigul - Madurai (DN)	10.51
Madurai - Virudunagar	16.12
Virudunagar - Vanchi Maniyac	16.12
Virudunagar - Tenkasi	2.96
Madurai - Manamadurai	2.14
Manamadurai - Rameswarai	4.44
Tirunelveli - Tiruchendur	2.74
Tirunelveli - Vanchi Maniyac	12.23
Nagarcoil - Tirunelveli	9.15
Villupuram - Vellore Cantonment	1.97
Vellore Cantonment - Katpadi	2.24
Villupuram - Mayiladuthurai	8.58
Mayiladuthurai - Kumbakonam	12.51
Kumbakonam - Thanjavur	12.51
Thanjavur - Tiruchchirappalli	12.51
Tiruchchirappalli - Karaikkud	2.67
Group	
Walajah Road - Ranipet	18.87
Salem - Mettur Dam	11.12
Tiruchchirappalli Fort - Tiruchchirappalli Jn.	2.52
Coimbatore - Mettupalaiyam	1.33
Palakkad - Palakkad Town	3.47
Shoranur - Nilambur Road	8.09
Ernakulam - Kochi Harbour	8.09
Thiruvananthapuram Central - Nagercoil	5.02
Nagercoil - Kanniyakumari	3.93
Vanchi Maniyachchi - Tutic	3.43
Thiruvananthapuram - Guruvayur	1.54
Chengalpattu - Tirumalpur	4.73
Tirumalpur - Arakkonam	3.30
Villupuram - Puducherry	4.14
Cuddalore Port - Vriddhachalam	4.14
Vriddhachalam - Salem Market	1.02
Salem Market - Salem	9.71
Salem - Namakkal - Karur	11.24
Thanjavur - Tiruvarur	1.92
Tiruvarur - Nagore	2.23
Mayiladuthurai - Tiruvarur	0.15
Nagore - Karaikal	1.37
Nagore - Velankanni	0.50
Nidamangalam - Mannargudi	2.96
Dindigul - Palani	0.67
Tenkasi - Sengottai	0.77
Tirunelveli - Tenkasi	
Punalur - Kollam	
ME	
Mettupalaiyam - Udagamand	0.08

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 totalling to 48 machines costing a total of Rs.318 crores.

Tamping of 7344 km of track has been done by the machines during 2012-13 in the Shatabdhi and other high speed and high-density routes on the Railway.

Track relaying for 65.131 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.

Para 22(b):-

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)	522.80
USFD (km)	12438

23:- Stabilisation of Bad banks:

Improvement works to formation by making cess and provision of standard formation in a total length of 204 km. done during the year 2012-13.

24. Length of Tunnels

Length of Tunnels

Sl. No.	Divn.	Section	Gauge	Tunnel No.	Location	Length in 'm'	Year of Const.	Lined/ Unlined	Straight/ Curve	Remarks
1	MDU	SCT-QLN	MG	1	680/8-681/4	906.78	1901	Lined	ST /Curve	Important
2	MDU	SCT-QLN	MG	2	693/2-3	102.7	1901	UnLined	Curve	
3	MDU	SCT-QLN	MG	3	693/4-5	86.3	1901	UnLined	Curve	
4	MDU	SCT-QLN	MG	4	697/4-5	130.75	1901	UnLined	Curve	
5	MDU	SCT-QLN	MG	5	703/2-3	144.70	1901	Part Lined	Curve	
6	SA	MTP-UAM	MG	1	9/10-11	34.44	1897	Lined	Curve	
7	SA	MTP-UAM	MG	2	11/10-11	19.51	1897	Un Lined	Curve	
8	SA	MTP-UAM	MG	3	12/3-5	83.52	1897	Un Lined	Curve	
9	SA	MTP-UAM	MG	4	12/7-8	46.94	1899	Lined	ST/ Curve	
10	SA	MTP-UAM	MG	5	14/6-7	19.51	1899	UnLined	Curve	
11	SA	MTP-UAM	MG	6	14/9-10	79.25	1899	Lined	Curve	
12	SA	MTP-UAM	MG	7	15/3-4	88.39	1899	Lined	Curve	
13	SA	MTP-UAM	MG	8	17/8-9	32.92	1899	Un Lined	Curve	
14	SA	MTP-UAM	MG	9	17/10-11	30.48	1899	Un Lined	Curve	
15	SA	MTP-UAM	MG	10	19/5-6	20.12	1899	Un Lined	Curve	
16	SA	MTP-UAM	MG	11	19/11-12	62.48	1899	Un Lined	ST/ Curve	
17	SA	MTP-UAM	MG	12	21/3-4	95.10	1897	Un Lined	Curve	
18	SA	MTP-UAM	MG	13	23/12-24/1	72.85	1904	Lined	Curve	
19	SA	MTP-UAM	MG	14	39/9-10	76.20	1907	Un Lined	Straight	
20	SA	MTP-UAM	MG	15	42/5-5	53.64	1907	Lined	Curve	Important
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	Important
				ADN						
24	PGT	SRR-MAQ	BG	1198 Up	835/7-9	175.00	2003	Un Lined	Curve	Important
				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	
	2011 - 12	2012-13	2011 - 12	2012-13	2011 - 12	20
Important ..	18188.28	22755.17	0	Nil	Nil	
Major ..	35010.56	45716.49	4648.93	1178.67	Nil	
Minor ..	28926.87	33409.17	2866.05	482.24	Nil	
Total ..	82125.71	101880.83	7514.98	1660.91	Nil	

Total	
2011 - 12	2012-13
18188.28	22755.17
39659.49	46895.16
31792.92	33891.41
89640.69	103541.74

26. Building Activities

(i) Statement showing number of projects, plinth area, estimated cost and value

Sl. No.	Construction Stage	No. of Projects in Units	Total Plinth area in sq.mtrs.	Total floor area in sq. mtrs.
1.A. Residential building				
Family quarters.				
1.	In progress ..	142	9723	6402
2.	Completed ..	182	11898.6	9824
1 B. Non-family dwelling barracks				
1.	In progress ..	2	285.6	251.28
2.	Completed ..	1	300	255
2. Industrial building				
1.	In progress ..	1	5598	8864
2.	Completed ..	..	..	..
3. Commercial buildings				
1.	In progress ..	9	1343	360
2.	Completed ..	3	615.34	375.74
4. Institutional buildings				
1.	In progress ..	1	—	—
2.	Completed ..	1	300	255
5. Other buildings				
1.	In progress ..	8	2177	1889
2.	Completed ..	..	2541	1500

work done during 2012-2013.

	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 ₹)
86.83	399.54	719.33
29.32	136.64	886.64
72.88	34.35	34.35
137.9	—	114.00
1130	602.00	927.00
144.32	—	16.00
128.12	20.42	59.42
489.00	237.00	237.00
49.5	—	38.00
391.90	186.22	407.05
651.29	210.20	325.20

(ii) Statement showing number of addition and alterations of projects, plinth area done during 2012-2013 on Building by construction type and stages of construction

1.A. Residential building				
1.	In progress ..	5	134	120
2.	Completed ..	148	—	—
1 B. Non-family dwelling barracks.				
1.	In progress ..	..	..	..
2.	Completed ..	..	..	..

estimated cost and value of work

126.08	228.54	251.33
362.64	257.64	82.64
..	..	..
..	..	..

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	..	..	..	127.00	16	..
2.	Completed. ..	..	..	..	..	..	..
4. Institutional buildings							
1.	In progress	..	..	..	2845.00	50.00	50.00
2.	Completed. ..	..	..	..	..	..	..
5. Other buildings							
1.	In progress ..	..	..	..	..	..	..
2.	Completed.	..	1	816	82.00	7	85.00

iii) Number of dwelling Units/staff quarters (permanent structures) constructed and under construction during 2012-13.

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	35	579	187	56.83	21.95	44.74
(b)	Completed	3506	3111	394	325	191	..

27. Land Management

(a) Tree Plantation

Position for the year 2012-2013 is as under :

(in thousands)

(in Hectares)

Name of States	Total No. of trees surviving as on 1/4/2012	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 31/3/2013
Tamil Nadu	..	..	..	..	..	..
Karnataka	..	..	..	..	..	..
Kerala	..	..	..	..	..	..
Andhra Pradesh	..	..	..	..	..	..
Total	1621.56	182.86	..	..	..	1804.42

No. of shady trees planted on platform during the year 2012-2013.

(b) Encroachments—Position of Encroachments on Railway Land

(i) The position for the year 2012-2013 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 31/3/2012	No. of cases filed during the year	No. of cases decided during the year	Total No. of cases pending with Estate Officer as on 31/3/2013
	Added	Removed	Total No. of encroachments as on 31/3/2012				
9,315	0	188	9,127	2,640	0	188	2,452

(ii) Special Measures taken to remove encroachments :

(c) Position of Licensing Agreement : (Nos.) 2012-13

Item	Total No. of cases	Total No. of cases agreements executed
a. G. M. F.	288	288
(i) Railway employees ..	..	..
(ii) Outsiders ..	..	..
b. Commercial plots including vending by Comml. Deptt.	17	6
c. Engineering plots ..	87	86
d. Shopping plots (Engg. Deptt.)	32	3
e. Oil plots ..	52	43
f. Others ..	392	291
Total ..	868	717

(d) Engg. Earnings from

Sl. No.	Description
1.	Licensing of land for G. M. F.
2.	Sale of Grass rights
3.	Sale of Fruit rights
4.	Sale of Fishery rights
5.	Sale of matured green & dry trees.
6.	Licensing of land for shc purposes including Tehba
7.	Licensing of land for Oil
8.	Licensing of land for other
9.	Way leave facilities & eas both along road & rail
10.	Other Misc. Earnings fr
Total	

resources (in Thousands of ₹)

Actual earnings for last three years			Remarks
2010-11	2011-12	2012-13	
93	196.4	50	
0.00	0.00	0.00	
0.00	0.00	0.00	
0.00	0.00	0.00	
5268	1040	5206	
193	1660	381	
23702	48639	65080	
4010	2500	683847	
47148	318648.6	79081	
3886.00	2286	637219	
84300	374970	1470864	

(e) Outstanding Dues (In thousand rupees)

		2012-2013	
Sl. No.	Item	Position as on 31/3/2012	Accretion during the year (4)
1.	G. M. F. Scheme ..	..	..
	(a) Railway Staff ..	..	..
	(b) Outsiders ..	12.226	..
	(c) State Governments ..	..	..
2.	Temporary Commercial Licensing ..	20.000	..
3.	Outstanding due Oil Companies..	20204.910	32
4.	Outstanding dues from Government Department ..	2702.598	..
Total	..	22939.734	41

Clearance during the year (-)	Balance Outstanding as on 31/3/2013
..	..
75	0
0	12.226
..	0
4636	657.000
290761.000	59053.910
55038	13430.598
350510	73153.734

(f) Total Land Area (in Hectares)

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		
				Under track structures and colonies etc.	Afforestation	Commercial licens
(1)	(2)	(3)	(4)	(5)	(6)	(7)
26,295.90	..	..	26,295.90	21,388.43	1,784.36	290.

2012-2013		
G.M.F.	Any other use	Area of land lying vacant
(8)	(9)	(10)
23.16	93.23	2,651.18

28. 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 (Tonnes)	Tonnage of steel structures other than girder bridges (Tonnes)	Number of water Pumping points Nos.	Number of Sewerage treatment plant Nos.	Number of ballast quarries Nos.
					Major	Minor	Total	F.O.B.	R.O.B.	R.U.B.	Total (m)					
1	2	3	4	5	6	7	8=(6+7)	9	10	11	12=(9+10+11)	13	14	15	16	17
1	2011-12	MAS	679849.00	194218.74	127.00	3359.00	3486.00	5905.30	10.08	39.00	5954.30	0.00	0.00	77	7	0
	2012-13		357218.00	383899.00	4830.66	4135.20	8965.86	1372.00	780.00	755.00	2907.00	0.00	0.00	77	7	0
2	2011-12	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
	2012-13		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	2011-12	PGT	108200.36	167130.80	14528.19	1897.30	16425.49	1549.79	1506.40	170.90	3227.09	8743.83	2086.00	27	1	1
	2012-13		108200.36	167130.80	13705.28	3243.86	16949.14	1407.42	1268.83	186.32	2862.57	5134	702	27	1	0
4	2011-12	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
	2012-13		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	2011-12	TRJ	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
	2012-13		240887.45	377024.16	13466.94	5063.38	18530.32	1747.58	180.36	1259.14	3187.08	247.00	17570.20	20	14	0
6	2011-12	MDU	167664.631	183671.00	9736.63	8636.91	18373.54	611.14	1119.379	247.50	1978.02	38019.00	2662.00	46	16	5
	2012-13		199507.63	116626.72	9736.63	8636.91	18373.54	611.14	1119.379	247.50	1978.02	38019.00	2662.00	46	16	5
	2011-12	CE/CN/ERS	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
	2012-13		2220.00	340.00	536.60	271.74	809.24	229.34	191.20	19.60	440.14	172.00	189.00	0	0	0
7	2011-12	CE/CN/MS	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
	2012-13		3070.00	350.00	3027.00	1908.74	4935.74	150.00	2622.70	725.50	3498.20	0.00	0.00	0	0	0
8	2011-12	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
	2012-13		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	2011-12	Total	146533.44	1145670.70	55315.41	31157.884	86493.29	11620.43	7526.139	2791.05	21945.619	57953.83	25968.20	203	43	7
	2012-13		1179079.43	126646.68	59900.21	33539.59	87963.19	7371.64	8467.469	3646.51	19485.62	53152.00	24773.20	202	43	6

Civil Engineering Assets

Plinth area of service buildings (in sqmts)	Plinth area of residential buildings (in sqmts)	Linear water way of bridges in metre			Length over and under bridges in metre				Tonnage of steel girder bridges (Tonnes)	Tonnage of steel structures other than girder bridges (Tonnes)	No. of water pumping points (Nos.)	No. of sewage treatment plant (Nos.)	No. of ballast quarries (Nos.)
4	5	6	7	8 = (6+7)	9	10	11	12 = (9+11)	13	14	15	16	17
		Major	Minor	Total (m)	FOB	ROB	RUB	Total (m)					
1179079.43	126646.68	59900.21	33539.59	87963.19	7371.64	8467.469	3646.51	19485.62	53152.00	24773.20	202	43	6

V. परिवहन/TRANSPORTATION

1.0 Highlights of Freight Performance

1.1 Originating Revenue Earning Traffic:

- Originating Revenue Earning Traffic during the period 2012-13 was **37.974 MT**.
- Against the Board's Target of **37.900 MT**, SR loaded **37.974 MT** which is more than **0.20% (0.074 MT)**.
- Coal loading recorded **20.176 MT**, is the highest ever surpassing the previous best of 18.743 MT done in the last year.
- For the first time in Southern Railway Iron-Ore traffic for domestic use has been loaded at Karaikal Port for steel plant JSW at Mecheri Road in Salem division. During 2012-13, 93 rakes of 0.36 Million has been loaded.
- The Operating Ratio for the year 2012-13 is **130.59%**.

2 Originating Revenue Earning Traffic (In Million Tonnes) for 2012 -13 & 2011-12 compared with Board's target for 2012-13 are as under :—

Commodity	(In Million Tonnes)				
	(2012-13) Boards, (Target)	2012-13 (Actual)	2011-12 (Actual)	%Variation over Target	%Variation over Last year
COAL	18.280	20.176	18.743	10.4	7.6
CEMENT	4.110	2.831	3.980	-31.1	-28.9
FOODGRAINS	1.900	1.504	1.946	-20.8	-22.7
FERTILISER	4.600	3.281	5.002	-28.7	-34.4
POL	2.800	3.182	3.505	13.6	- 9.2
CONTAINER	1.850	1.642	1.851	- 11.2	-11.3
OTHERS	4.360	5.358	4.371	22.9	22.6
TOTAL	37.900	37.974	39.398	0.2	-3.6

4. Clearance of Traffic from Ports: (April-2012 to March -2013)

There are six major ports in Southern Railway Viz, Chennai Harbour (HOM), E Port (NMPT), V. O. Chidambaranar Tuticorin Port (VOC TNHP), and Cochin Harbour. The traffic originated from various ports during 2012-13 compared to previous year

Name of Port	Port-wise Loading for the year 2012-13 compared to last year						
	Year	Coal	Dolo	Fert	Cont	Lime Stone	Gypsum
HOM	12-13	0.01	0.96	0.11	0.84	2.72	0.01
	11-12	2.22	0.72	0.31	0.86	2.09	0.01
AIPO	12-13	2.14	-	-	-	-	-
	11-12	1.21	-	-	-	-	-
KIKP	12-13	3.21	-	0.53	-	-	0.01
	11-12	2.88	-	0.88	-	-	0.01
TNHP	12-13	0.21	-	0.30	0.03	0.05	-
	11-12	0.12	-	0.84	0.04	0.07	-
NMPT	12-13	5.42	-	0.36	0.01	-	0.11
	11-12	2.63	-	0.54	0.01	-	0.11
CHTS	12-13	-	-	0	0.01	-	0.01
	11-12	-	-	0.06	0.07	-	-
VPDP	12-13	-	-	-	0.01	-	-
	11-12	-	-	-	-	-	-
TOTAL	12-13	10.99	0.96	1.30	0.90	2.77	0.23
	11-12	9.06	0.72	2.63	1.02	2.16	0.23

3. Loading : (Daily)

COMMODITY	2012-13
COAL	10.176
CEMENT	2.831
FOODGRAINS	1.504
FERTILIZERS	3.281
POL	3.182
CONTAINER	1.642
OTHERS	5.358
TOTAL	37.974

The receipt and change points are as follows:

Daily average	2012-13
Receipts	18.743
Despatch	18.743

2.2. The daily average

2012-13
1865

3. Long Haul Trains

Running of long haul trains in Southern Railway commenced on 06.01.2011. Loaded long haul trains during 2012-13 compared to 2011-12 are as under:

Year	Em
2012-13	2.2
2011-12	2.1

2.3. The EKM/Eng compared to 2011-12

Year	2012-13
Diesel	2.2
Electrical	2.1

ge in terms of 8 wheelers)

2011-12	% Variation over Last year
777	7.6
172	-29.1
85	-21.0
217	-32.7
155	5.9
149	-8.1
184	20.7
1739	-2.6

h position of wagons at Inter-r.

(In 8w Units)	
2011-12	% Variation over Last year
1838	0.9
1843	1.0

releases (In 8w Units)

1-12	Decrease by
972	- 5.4 %

ains (combining of two standard y commenced on 06.01.2011. rted from 8-3-2011.

012-13 & 2011-12 are as under:

Load	Total	Increase
110	353	18 %
5	298	

ay position during 2012 13

13	2011-2012	% Var. over Last year
	482	- 5.8%
	523	2.9%

Port (AIPO), New Mangalore S) and Karaikkal Port (KIKP). 11-2012 are :—

(In Million Tonnes)

last year		
others	TOTAL	%Vari over last year
0	4.66	-25.3
0.01	6.24	-
-	2.14	+76.9
-	1.21	-
0.36	4.13	+8.7
0	3.80	-
0.02	0.61	-45.5
0.05	1.12	-
0.01	5.95	+77.1
0.02	3.36	-
	0.04	-69.2
	0.13	-
-	0.01	-75.0
	0.04	-
1.39	17.54	+10.3
1.08	15.90	-

5.0 Passenger Operations—Performance Highlights

5.1. Special Trains run .. 1,472

5.1.1. Allotment of Special trains on (FTR)

Film Shooting	FTR Special	Village on Wheels
9	64	29

5.1.2. Allotment of coaches on FTR

Total No. of Coaches	..	90
----------------------	----	----

5.2. Military Specials run

5.2.1. No. of loaded Military specials 22

5.2.2. No. of Empty Military specials 13

5.3. Alarm Chain Pulling

The following are the particulars of Alarm Chain Pulling during April 2012 to March 2013 :—

Division	MAS	PGT	TVC	TPJ	MDU	SA	Total
Total No. of cases	526	275	634	153	215	301	2104
Unjustified	201	20	309	—	—	—	530

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 116 Coaches were augmented (ACCW-2, ACCN-21, FC-1, GSCN-37, GSCZ-32 & GS-23) by 30 pairs of Exp. trains and 11 Pairs of Passenger trains on permanent basis.

5.6.(2). During April 2012 to March 2013, 7600 Coaches were attached as extra to clear wait listed passengers based on day - to - day demand.

5.6.(3). To clear extra rush 1472 Special trains, (Including Summer & Winter Specials) were run during April 2012 to March 2013.

6. INTRODUCTION OF TRAINS

To Order to meet the increasing requirements of train service, the following new trains were introduced from S. Rly. during 2012–13.

Sl. No.	T. No.	Description	Date of introduction
1	22605/22606	Purulia-Villupuram Weekly Exp. (2011 Budget).	13/4/12
2	76805/76807	Mannargudi-Tiruchchirappalli-Manamadurai DEMU Passenger.	1/7/12
3	22825/22826	Shalimar-Chennai Central Express (Weekly).	3/7/12
4	17407/17408	Mannargudi-Tirupati Express (Tri-weekly).	14/7/12
5	22627/22628	Tiruchchirappalli- Tirunelveli Intercity Express (Daily).	1/7/12
6	22859/22860	Puri-Chennai Central Express (Weekly).	22/7/12
7	12376/12375	Asansol-Chennai Central Exp. (Weekly).	28/7/12
8	22475/22476	Bikaner-Coimbatore AC Exp. (Weekly).	12/9/12
9	56796/56797	Sengottai-Tirunelveli Passenger (Non-Budget).	21/9/12
10	56798/56799	Sengottai-Tirunelveli Passenger (Non-Budget).	21/9/12
11	56772/56771 56774/56773 & 56776/56775	Dindigul-Palani Passenger (Non-Budget). (3 Pairs)	20/11/12
12	66304/66305	Kollam-Nagercoil MEMU (6days) (2011 Budget).	1/12/12

Sl. No.	T. No.	Description	Date of introduction
13	22205/22206	Chennai Central –Madurai AC Duronto Exp. (Bi-weekly Exp.) (2011 Budget).	15/12/12
14	22207/22208	Chennai Central –Trivandrum AC Duronto Exp.(Bi-Weekly) (2011 Budget).	15/12/12
15	22869/22870	Visakhapatnam-Chennai Central Express (weekly).	15/12/12
16	66612/66611	Emakulam-Thirur Passr.(MEMU) (6 days a week).	24/3/13
17	56875/56876	Villupuram-Mayiladuthurai Passr	29/3/13
18	56882/56881, 56884/56883, & 56886/56885	Villupuram-Katpadi Passenger	29/3/13

6.1. Trains Introduced on Gauge Converted Sections:—**1. Sengottai-Tirunelveli gauge converted line :—**

1. 56796/56797 Sengottai-Tirunelveli Passenger.

2. 56798/56799 Sengottai-Tirunelveli Passenger

2. Dindigul-Palani gauge converted line :—

3 Pairs (T. No.56772/56771, 56774/56773 & 56775-Dindigul Palani Passengers (Non-Budget).

3. Villupuram Katpadi gauge converted line :—

1.3 Pairs (T.No. 56882/56881, 56884/56883, 56886/56885 – Villupuram Katpadi Passenger) (Budget)

2. T. No. 56875/56876-Villupuram Mayiladuthurai Passenger (Budget).

4. Mayiladuthurai-Thiruvavur gauge converted line :—

Extension of Train No.56514-Bangalore-Salem Passenger extended from Salem to Nagore (via Mayiladuthurai, Thiruvavur) with effect from 1-7-2012. and T. No. 56513 Salem-Bangalore Passenger will run from Nagore to Bangalore on 2-7-2012.

Sl. No.	T. No.	Description	Date of introduction
1	56514/56513	Bangalore-Salem Passenger to Nagore (Budget 08).	9/7/12
2	66602/66603	Coimbatore-Erode MEMU to Salem	7/7/12
3	16779/16780	Madurai-Tirupati Express to Rameswaram.	23/7/12
4	56714/56711	Tiruchchirappalli-Nagore Passenger to Karaikal	9/7/12
5	76818	Velankanni-Nagore to Karaikal DEMU.	9/7/12
6	76815	Thanjavur-Nagore to Karaikal (Non-Budget) DEMU.	9/7/12
7	22609/22610	Palakkad-Mangalore Express to Coimbatore.	13/7/12
8	16649/16650	Mangalore-Thiruvananthapuram Express to Nagercoil.	16/7/12
9	56011/5601	Arakkonam-Nandalur Passenger to Cuddapah.	12/7/12
10	11017/11018	Dadar-Yesvantpur Express on 3 days to Puducherry via Jolarpettai-Katpadi-Villupuram and to Tirunelveli (T.No.11021/11022) on 3 days via Dharmapuri-Erode, Madurai.	Dadar Puducherry on 6/11/12 Dadar-Tirunelveli on 8/11/12
11	76813	Nagore-Velankanni DEMU from Karaikal.	25/3/13
12	76812	Thanjavur-Nagore Passenger to Karaikal (Non-Budget).	13/3/13

6.4. INCREASE IN FREQUENCY

Sl. No.	T.No.	Description	Increase in frequency	w.e.f.	Budget/ Non-Budget
1	16179/16780	Tirupati-Rameswaram Express.	Bi-weekly to Tri-weekly	9/7/12	Budget
2	12686/12685	Mangalore-Chennai Central Express.	6 days a week to daily	20/8/12	Budget

6.5. Conversion into Superfast Trains : NIL**6.5. MEMU Services introduced during 2012-13 :-**

1. T.No. 66304/66305-Kollam-Nagercoil Passenger (MEMU) - 6 Days a week introduced w.e.f 1.12.2012 (Except Friday).
2. T.No. 66611/ 66612-Ernakulam-Thrissur MEMU -6 Days a week Introduced w.e.f 24.3.2012 (Except Tuesday)

6.6. Trains Diverted : - NIL

1. T.No. 16175/16176/Chennai Egmore-Karaikkal diverted (Via Villupuram-Mayiladuturai-Tiruvarur) instead of Villupuram-Mayiladuturai-Thanjavur -W.e.f 11.10.2012 .

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

	Broad Gauge				Metre Gauge			
	Target	2011-12	Target	2012-13	Target	2011-12	Target	2012-13
Mail/Exp.	95.0	93.8	95.0	91.6	95.0	99.0	-	-
Passenger	95.0	91.5	95.0	86.9	95.0	97.1	95.0	99.1
Suburban	97.5	85.5	95.0	79.5	-	-	-	-

	Broad Gauge		Metre Gauge	
	2011-12	2012-13	2011-12	2012-13
No. of trains run	82449	86850	698 **	-
No. of trains not losing	77338	79533	691	-
No. of trains losing	5111	7317	7	-
Percentage	93.8	91.6	99.0	-

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

RIGHT TIME BASIS

	Broad Gauge		Metre Gauge	
	2011-12	2012-13	2011-12	2012-13
Mail/Exp.	91.8	89.7	99.0	-

8. Volume of Traffic handled and put out

		(Figures in thousands)	
Sl. No.	Description	2012-2013	2011-2012
(a)	No. Passenger Carried	873003	860175
(b)	Passenger Kms.	84062221	82512325
(c)	Passenger train Kms. * Ex (incl. MEMU, DEMU, EMU)	59395	57179
(d)	Total Coaching Vehicle K	1771088	1690008
(e)	Total freight tonne Kms.	17479572	17380012
(f)	Goods train Kms. Excluding mental.	10785	11842
(g)	Total Wagon Kms. Excluding & Brake van	499827	542114
(h)	Total train Kms. (Excl. Dr * (incl. Pass & Goods and MEMU, DEMU, EMU)	70180	69021
(i)	Total Engine Kms.	73384	75261
(j)	Total Gross Tonne Km (incl. weight of Engine & and incl. coaching, goods MEMU DEMU).	89065062	87900284

(*) Includes proportion the trains are run at rate of 3 Rail Car departmental.

and Train Kms. of EMU stock as rail Car Kms. Converted at the Per train Kms. but excluding

9. Operating Efficiency**The important efficiency**

Sl. No.	Description	Broad Gauge		Metre Gauge	
		2011-12	2012-13	2011-12	2012-13
(I)	Wagon Kms. per wagon on line. (In terms of eight wheelers).	1.84	177.38	0	0
(II)	Coaching Vehicle Kms. per vehicle day-				
	(a) Passenger..	2.12	519.62	106.56	128.30
	(b) Other Coaching..	58.1	350.73	0	0
(III)	Percentage of loaded to total wagon Kms.	59	61	0	0
(IV)	Speed of all Goods trains (Kms. per hour).	26.8	27.9	0	0.0
(V)	Average starting wagon load (Tonnes).	61.9	61.3	0	0
(VI)	Loads of Goods Trains (Tonne)				
	(a) Net or freight load..	619	1,466	0	0
	(b) Gross Load (incl. weight of engine).	976	2,806	0	0
	(c) Gross Load (Excl. weight of engine).	798	2,632	0	0
(VII)	Net Tonne Km. Per wagon day on line.	410	5,679	0	0
(VIII)	Net Tonne Km. Per Locomotive day in use.	1,490	2,76,352	0	0
(IX)	Net Tonne Km. per engine hour.	552	13,861	0	0
(X)	Gross Tonne Km. Per engine hour.	1,013	73,321	0	0

Note :- * All Wagon related items

in terms of 8 wheelers.

10. Originating Tonnage underplan heads

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

(Figures in Millions)

Sl. No.	Tonnage Originating	2009-10	2010-11	2011-12	2012-13
1.	Coal				
	(i) Coal for Railway use ..	0.00	0.00	0.00	0.00
	(ii) Coal for Steel Plant ..	2.31	0.80	1.33	2.06
	(iii) Coal for other use ..	15.35	16.46	17.41	18.11
	(iv) Total Coal ..	17.66	17.26	18.74	20.17
2.	Raw materials for steel plants (Other than coal).	1.77	2.01	2.79	3.13

3	Finished products from steel plants.	1.56	0.00	0.00	0.00
4	Cement	4.11	3.45	3.98	2.83
5	Export Ores:				
	(i) Iron Ores ..	0.00	0.00	0.00	0.00
	(ii) Manganese Ore ..	0.00	0.00	0.00	0.00
6	Miscellaneous Goods :				
	(i) Railway Materials ..	0.46	0.48	0.44	0.26
	(ii) Foodgrains ..	1.03	1.37	1.95	1.50
	(iii) Mineral Oils ..	4.01	3.05	2.99	3.18
	(iv) Fertilizers ..	3.22	3.91	4.77	3.27
	(v) Other Goods ..	2.37	3.97	4.07	3.80
	(vi) Total Misc. Goods ..	11.09	12.78	14.22	12.01
7	Total All Traffic (Revenue & Non-Revenue) ..	36.19	35.5	39.73	38.14

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	
		2012-13	2011-12	2012-13	2011-12
(a)	No. of wagons owned (in terms of 8-wheelers) ..	9,478	9,566	282	356
(b)	Inter-change debit/credit balance	n/a	n/a	n/a	n/a
(c)	Average wagon holding (in terms of 8-wheelers) ..	8,841	8,350	0	0
(d)	No. of wagons loaded :				
	(i) Originating ..	1,694	1,726	0	0
	(ii) Transhipment ..	0	0	0	0
	(iii) Repacked ..	0	0	0	0
	(iv) Coaching Traffic ..	0	0	0	0
	(v) Total loading ..	1,694	1,726	0	0
(e)	No. of loaded wagons received daily from other Rlys.	1,269	1,336	0	0
(f)	Turn round of wagons (on line) ..	2.70	2.51	0	0

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 units)

Gauge	Current year	Previous year	Percentage variation over previous year
	2012-13	2011-12	
Broad	9,735	9,834	-1.01
Metre	285	365	-21.92
Total	10,020	10,199	-1.76

(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
	2012-13	2011-12	
Broad	8,841	8,350	5.88
Metre	0	0	0.00

(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 :—

Gauge	Current year	Previous year	Percentage variation over previous year
	2012-13	2010-11	
Broad	6,13,651	6,31,735	-2.86
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
	2012-13	2011-12	
Broad	4,63,021	4,88,853	-5.28
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
	2012-13	2011-12	
Broad	7.64	6.32	20.9
Metre	0	0	..

13. Statement of Net Tonne Kms. (Originating)

(Figures in Millions)

Particulars	Current year 2012-2013	Previous Year 2011-2012
I. Coal		
(i) Coal for Railway Use ..	0	00
(ii) Coal for Steel Plants ..	331.18	187.26
(iii) Coal for Other Use ..	4,329.27	4,091.45
(iv) Total Coal ..	4,660.45	4,278.71
II. Raw Materials for Steel Plants (Other than Coal).	447.01	397.72
III. Finished products from Steel Plants	597.96	613.28
IV. Cement ..	3,414.81	3,214.44
V. Export Ore		
(i) Iron Ore ..	0	0
(ii) Manganese Ores ..	0	0
VI. Miscellaneous Goods		
(i) Railway Material ..	30.33	47.42
(ii) Foodgrains ..	3,861.48	3,777.15
(iii) Mineral Oil ..	1,152.43	955.56
(iv) Fertilizer ..	1,372.28	1,995.66
(v) Other Goods ..	1,942.82	2,100.07
(vi) Total Misc. Goods ..	8,359.34	8,875.86
(vii) Total all traffic ..	17,479.57	17,380.01

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 2012-2013	Previous Year 2011-2012	% variation over previous year
(a) Passenger			
B. G. Steam ..	0	0	0.00
Dsl.Elec. ..	28,872	27,648	-4.24
Dsl. Hyd. ..	0	0	00
Elec. ..	38,476	36,609	-4.85
Total ..	67,348	64,257	-4.59
M. G. Steam ..	21	19	-9.52
Dsl. Elec. ..	131	387	195.42
Dsl. Hyd. ..	0	0	0.00
Elec. ..	0	0	0.00
Total ..	152	406	167.11
(b) Goods			
B. G. Steam ..	0	0	0.00
Dsl.Elec. ..	8,255	9,607	16.38
Dsl. Hyd. ..	0	2	0.00
Elec. ..	14,818	14,576	-1.63
Total ..	23,073	24,185	4.82
M. G. Steam ..	0	0	0
Dsl. Elec. ..	0	0	0.00
Dsl. Hyd. ..	0	0	0
Elec. ..	0	0	0
Total ..	0	0	0.00
(c) Mixed			
B. G. Steam ..	0	0	0
Dsl. Elec. ..	0	0	0
Dsl. Hyd. ..	0	0	0
Elec. ..	0	0	0
Total ..	0	0	0
M. G. Steam ..	0	0	0
Dsl. Elec. ..	0	0	0
Dsl. Hyd. ..	0	0	0
Elec. ..	0	0	0
Total ..	0	0	0

(Figures in Millions)

Particulars	Current year 2011-2012	Previous Year 2010-2011
(d) Total EKMs incl. Deptl.		
B. G. Steam ..	0	0
Dsl.Elec. ..	9	45,713
Dsl. Hyd. ..	3	767
Elec. ..	3	51,873
Total ..	15	98,353
M. G. Steam ..	13	34
Dsl. Elec. ..	10	426
Dsl. Hyd. ..	0	0
Elec. ..	0	0
Total ..	73	460
II. Engine Kms. per day per engine :		
(a) Passenger Service		
B. G. Steam ..	0	0
Dsl.Elec. ..	128	618
Dsl. Hyd. ..	0	0
Elec. ..	526	602
Combined ..	@	@
M. G. Steam ..	29	30
Dsl. Elec. ..	81	111
Dsl. Hyd. ..	0	0
Elec. ..	0	0
Combined ..	@	@
(b) Goods Service		
B. G. Steam ..	0	0
Dsl.Elec. ..	360	385
Dsl. Hyd. ..	0	23
Elec. ..	375	419
Combined ..	@	@
M. G. Steam ..	0	0
Dsl. Elec. ..	0	0
Dsl. Hyd. ..	0	0
Elec. ..	0	0
Combined ..	@	@
III. Engine Kms. per engine on line (All services) :		
B. G. Steam ..	0	0
Dsl.Elec. ..	391	421
Dsl. Hyd. ..	75	99
Elec. ..	398	400
Combined ..	@	@
M. G. Steam ..	6	10
Dsl. Elec. ..	46	90
Dsl. Hyd. ..	0	0
Elec. ..	0	0
Combined ..	@	@

@ As the method for conversion of engine Kms. per day per engine on line is different for passenger and goods traction the data for combined traction have not been shown

of Engine Kms. per day per engine in use/ at tractions the data for combined traction

15. Punctuality of

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

Passenger Trains

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

Particulars	Current Year 2012-13	Previous Year 2011-12
B.G. Mail	89.7	91.8
Suburban	86.9	91.5
M.G. Mail	76.8	85.9
Suburban	0.0	0.0
Mail	99.1	97.2
Suburban	0.0	0.0

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	29.78
2.	Salem	PTJ- Construction of OHT 90000 liters capacity and replacment of pipe line gride 20 block area.	49.50
		2. TUP-Tiruppur- Construction of OHT 45000 litres capacity including pipe line arrangements from well to good shed area (id : 1849/08-09) CE/OL	45.00
		3. CBE- Construction Jn. Provision of revers osmosis plant for providing drinking water to passengers	29.00
		4. PTJ- S&T workshop installation of revers osmosis plant.	8.00
3.	Palakkad	Nil	
4.	Trivandrum	NCJ- Proposed water hydrant in road No. 1A	17.72
5.	Tiruchchirappalli	Nil	
6.	Madurai	i) TEN Jn. – Proposed pipe line from TBR river to station	45.00
		ii) SCT – PUU Sec- Augmentation of water supply and construction of RCC OHT at 90000 thoused capacity etc.,	74.37
7.	CE/CN/MS	i) KCVL yard.	53.42
		ii) QLN-PUU(GC)	17.50
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	SE/W/VPT- Repairs to the pipe line in Quarters and station in SVKS.	1.99
7.	CE/CN/MS	Nil	
8.	CE/CNERS	Nil	
B. Works in Progress			
(i) Works costing more than ₹ 5 lakhs each			
1.	Chennai	TBM- Replacement of the existing C1 tank over staying steel tank of capacity 1.80 lakhs litrs	46.03
2.	Salem	i). Provision of drinking water facilities at good sheds at SA,SAMT,ED,IGU,PLMD & CBF	50.00
		ii) PTJ- Provision of individual storge water tank at Staff Quarters (400 Nos.) and augmentation of water supply by drilling three more borewells and pipe line arrangements (idL1359/08-09) CE/OL.	49.00
		iii) KRR – Replacement of correded pipe line. Improvements to sewage system at various stations.	85.00
		iv) PTJ- Provision of purified drinking water to stations through water treatment systems @ CBE (id : 1506/09-10) CE/OL.	20.00
3.	Palakkad	Nil	
4.	Trivandrum	i) Ernakulam Coaching Complex – Watering arrangements by laying 200 mm. dia. pipe for Muvatupuzha river near Piravam Road station.	895.00
		ii) CGV – ERM – TRVL – Improvements to water supply arrangements	24.00
		iii) ALLP – Repairs to water hydrants.	9.33
		iv) GUV – Improvements to water supply arrangement	64.28
5.	Tiruchchirappalli	i) VM-TPJ Chord line provision of 200 mm dia borewell at 17 Nos. in LCs. (id:578/07-08), CE/OL.	6.00
		ii) Provision of borewell with submerged pumps and sintex tank provision of all manned LCs in between VM-TLNR. (LC No.127,128,134,136,144,152, 152A,153,157,166,167, 10.00 & 170 in SE/P/AVRI Sec.	10.00

17. WORKING OF TRANSHIPMENT POINTS—Nil**18. ACTION TAKEN TO MAINTAIN CLEANLINESS AT STATION PREMISES.****A1, A & B Category stations: Medical Department**

Comprehensive cleaning contracts, inclusive of mechanize cleaning of stations/tracks, rag picking and garbage disposal have been awarded at 57 A1, A & B Category stations by Medical Department.

'C' Category stations: Commercial Department

Cleaning contracts exist at 14 stations. Tenders are under finalization at 14 stations. Cleaning activity at remaining stations is managed presently with imprest cash provided exclusively for this purpose. Action has also been initiated to float tenders at remaining stations.

'D, E & F' category stations: Traffic/Commercial Department

The cleaning activity at 'D, E & F' category stations is being carried out duly utilising the imprest cash given exclusively for this purpose to SM's in 'D' and 'E' category and halt agents in 'F' category stations. The cleaning activities are monitored and standard of cleanliness is ensured by conducting regular inspections with special emphasis on cleanliness.

Announcements are made through Public Announcement system requesting the passengers to keep the station premises neat and clean.

During this year, Special Drives have been conducted at Salem, Erode, Triuppur, Coimbatore, Coimbatore North, Mettupalayam, Karur. Cleanliness campaigns are also organised at regular intervals, involving students, members of St. John Ambulance, Scouts and Guides and other voluntary organizations to create awareness among the travelling public. Special cleanliness Awareness Campaigns have been organized at Tiruchchirappalli Jn., Thanjavur, Palakkad, Kozhikode, Kannur and Mangalore stations during Feb 2013 involving students, NCC, Scouts and Guides by displaying banners and playcards with impreative messages and slogans emphasizing the need for Cleanliness, Pamphlets have also been distributed to the passengers.

In order to ensure cleanliness and hygiene at Railway premises the Railway Act has been suitably amended. In accordance with the instructions contained in the Commercial Circular No. 76 of 2012 relating to Indian Railways (Penalties for the activities affecting cleanliness at Railway premises) Rules, 2012, fines are being collected from those indulging in activities affecting the cleanliness and hygiene of Railway premises. Suitable instructions have been sent to Divisions to give wide publicity of the above rules, paste posters at all Railway stations, put-up notices inside the coaches, announcement through Public.

Address System at stations. These aspects are closely monitored and regular inspections are conducted to ensure the same. Sufficient dustbins have been provided at all key points.

19. Specific fuel Consumption

Specific Fuel Consumption—Period: April 2012 to March 2013

Service	Apr. 11 to Mar. 12
Broad Gauge	
Steam Traction	No service

METRE GAUGE		
Pass. and Prop. of Mixed.	875.00	0.0
Goods and Prop. of Mixed	No Service	No Service

DIESEL TRACTION		
Pass. and prop mixed.	4.10	
Goods and prop. of mixed.	2.16	

DIESEL TRACTION		
Pass. and prop of Mixed.	7.10	
Goods and prop. mixed.	Nil	
—MG Diesel Traction closed Heritance Service		

State Shed wise and field	
Field	Grade "A"
Bengal & Bihar Coal	4
Singareni Coal	—
MPVP Coal	—
Total	4

Brief Remarks for the variation 2013 compared with April 2012

Variation	Remarks
	At present the steam locos operated by using coal are utilised for departmental service only.

BROAD GAUGE	
(-) 0.06	Improvement
+0.06	Due to non receipt of GTKMs from other zones While Preparing State ments.

METRE GAUGE	
(+) 4.64	Not Receipt to compare due to closer of MG
Nil	
10-2012 Except N.M. Railway	

No. 26(a) Coal Supplied (in tonnes) -2013				
Grade "C"	Grade "D"	Non Graded	Total	
—	—	—	417	
—	—	—	—	
—	—	—	—	
—	—	—	417	

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

Kind of Coal	Loco-Purposes		Non-Loco Purposes		Total	
	Apr.-11	Apr.-12	Apr.-11	Apr.-12	Apr.-11	Apr.-12
	to Mar-12	to Mar-13	to Mar-12	to Mar-13	to Mar-12	to Mar-13
Grade "A"	451	103	—	—	451	103
Grade "B"	0	0	—	—	0	0
Grade "C"	—	—	—	—	—	—
Grade "D"	—	—	—	—	—	—
Non Graded	—	—	—	—	—	—
Wood (in terms of Coal)	—	—	—	—	—	—
Salvage	—	—	—	—	—	—
Coke (in terms of Coal)	—	—	226	254	226	254
Total	451	103	226	254	677	357

Action by Division :

2. Shutting down of diesel locos when detained for more than 30 minutes in *en route*.
3. Identifying Loco Pilots consuming more fuel than normal and their intensive Monitoring by Loco Inspectors.
4. 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.
5. 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. Monitoring of CTRs and shunting vouchers dispatch from crew booking points to GM/ST.
2. Precise allocation and accountal of fuel issues to different services e. g. Passenger, goods, department and shunting etc.
3. Modification of coaching links to provide minimum time between successive trains.
4. Introduction of DEMUs in place of conventional rakes where ever load is less.

20. Input/Output Ratio

Particulars	2012-13	2011-12	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.	436.3	433.0	0.75
(ii) Wagon holdings in terms of 8-wheelers.	8,350	8,841	-5.55
(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.	4,96,882	4,42,332	12.33
(ii) NTKMs (in lakhs) on ownership basis as per train documents Goods & prop. of mixed.	2,33,754	2,45,183	-4.66
(iii) Average daily loading incl. Transshipment at BG, MG & NG (Revenue & Non-Revenue).	1,694	1,726	-1.86
Average daily loaded receipts.	1,269	1,336	-4.99
Total loading and loaded receipts.	2,963	3,062	-3.22
AVERAGE			
Wagon Kms. Per wagon day on line			
BROAD GAUGE	154.8	177.38	-12.71
METRE GAUGE	0.00	0.00	0.00



VI. वाणिज्य/COMMERCIAL

1. Revision of Passenger Fares :

Based on the Commercial Circular No. 19 of 2012 dated 27-3-2012, the Advance Rates Notification for Rate Advice No.3 of 2012 (Coaching No. 12/2012) has been issued. With effect from 1-4-2012, the following changes are made in the passenger fares. There has been changes in passenger fares and other charges from 1-4-2012 to 20-1-2013.

The revision on passenger fares are published in Coaching Tariff No. 26 (Part-II) effective from 1st April, 2012

Basic Passenger fares for Shatabdi Express Trains, Jan Shatabadi Express trains, Garib Rath Express Trains, Rajdhani Express Trains (Peak and Lean Seasons) and Season Tickets have also been published in the IRCA coaching Tariff No. 26 (Part-II). The changes in fares of Janshabadi Express trains.

The above instructions came into effect from 1st April, 2012.

Other Charges : There will be no change in all other charges currently levied on passenger traffic and not mentioned in this circular.

Levy of service tax on transportation of passengers by Rail:-

Based on the Board's letter No. TC-II/2910/2912/Service Tax dated 26-6-2012, The Advance Rates Notification for Rate Advice No.07 of 2012 was issued for levy of Service tax on transportation of passengers by rail, Service tax is levied on the fare of passenger services on the following classes:-

- (i) AC First Class
- (ii) Executive Class
- (iii) AC 2-Tier Class
- (iv) AC 3-Tier Class
- (v) AC Chair Car class
- (vi) AC Economy Class
- (vii) First Class

- (1) Service tax at the rate of 3.708% will be levied on total fare.
- (2) No Service tax will be levied on Duty Pass, Privilege Pass, any other complimentary Card Passed, where no money transaction is involved.
- (3) On Concessional value tickets/PTO tickets etc., service tax levied on 30 per cent of the total fare actually being paid by the passengers.
- (4) As regard rounding off of chargeable fare, after levy of service tax on the gross fare charged including Development charge, Super fast surcharge, reservation fee etc., there after it will be rounded off as approved principles.
- (5) In case of cancellation of tickets by the passengers service tax will not be refunded by Railways.

Levy of service tax came in to force from 1-10-2012.

Fare structure for Double

Based on the Board 2012, ARN No.8 of 2012 (the following instructions

- (1) Existing fare structure for Super Fast Mail/ all AC Chair Car Do charges like reserv trains and develop additionally as adr
- (2) The same fare struct Double Decker train
- (3) All concessions in fa trains will also be a
- (4) All warrants and Rail travel by these Dou
- (5) Children of 5 years continue to be char

INTRODUCTION OF TWO

With effect from 1 trains were introduced.

- (1) Train No. 22207/222 Chennai Central and
- (2) Train No. 22205/222 Chennai Central and

Revision of Passenger F

Based on the Commer 11-1-2013, the Advance No. 1 of 2013 (Coaching **With effect from 22-01-** made in the passenger f

Sl. No.	Class
1	Second Class Ordinary (Suburban)
2	Second Class Ordinary (Non-Suburban)
3	Second Class (Mail /Express)
4	Sleeper Class
5	AC Chair Car
6	AC 3Tier
7	First Class
8	AC 2Tier
9	AC First Class

er trains:-

Commercial Circular No. 49 of ng No. 34/2012) was issued, issued by the Board:-

> Chair car class applicable is trains are applicable for eckertrains. However, other ee, surcharge for Super Fast charges, etc., are leviable

applicable round the year in

admissible in Mail/Express ble in Double Decker trains.

il Coupons are accepted for cker trains.

ove but below 12 years will lf fare.

NTO TRAINS:-

2012, two Duronto Express

ronto Express between drum Central.

ronto Express between ai.

ith effect from 22-01-2013:-

ircular No. 06 of 2013 dated Notification for Rate Advice 03/2013) has been issued. the following revisions are

Change in Fare passenger meter (PKM)	Minimum distance for charge
Paise	Nos. change (Existing -10 kms)
Paise	Nos. change (Existing -10kms)
Paise	50 kms.
Paise	Nos. change (Existing -200 kms)
Paise	150 kms.
Paise	300 kms.
Paise	Nos. change (Existing -100 kms)
Paise	Nos. change (Existing -300 kms)
Paise	Nos. change (Existing -300 kms)

2. **Minimum Fare:** The Minimum fare chargeable will be ₹. 5

3. **Development Charge :** On the revised basic fares, the development charge are not be leviable.

4. **Rounding off of Fares :**

i) **Fares of all classes except Second Class Ordinary (Suburban) :** Chargeable Fares, as obtained after adding Miscellaneous Charges like Reservation Fee, Supplementary charge for Superfast trains, Catering Charge, Service Tax etc., to the Basic Fare, will be rounded off to the next higher multiple of ₹. 5.

ii. **Second Class (Suburban) Fares : Chargeable Fares** for Second class Suburban Passengers, as obtained after adding applicable miscellaneous charges like MUTP Surcharge, etc. (as and where applicable) to the Basic Fare, will be rounded off to the next higher multiple of five rupees, except that in cases where either '1' or '6' comes up as the last digit (i.e. in unit's place) it will be rounded off to the immediately lower multiple of ₹.5 i.e., ₹.11.00 ₹.21.00 ₹.31.00 etc. would respectively become ₹.10.00, ₹.20.00, ₹.30.00, etc. and ₹.6.00, ₹.16.00, ₹.26.00, etc. would respectively become ₹.5.00, ₹.15.00, ₹.25.00, etc. and Fare values ending in ₹.2.00, ₹.3.00, or ₹.4.00, would be getting rounded off to ₹.5.00, and those ending in ₹.7.00, ₹.8.00, ₹.9.00, ₹.10.00, and so on and so forth.

5. It is also decided that the existing fares of train services like Rajdhani, Shatabdi, Garib Rath, Jan Shatabdi, Duronto, Rajya Rani and Yuva Expresses are similarly be revised to the extent of the proposed increase in classwise fares.

6. As per Commercial Circular No. 80 of 2012 dated 26-12-2012, as a special case to facilitate the passengers of Mahakumbh Mela it has been decided if any passengers purchases an unreserved reverse ticket through UTS from any station on Indian Railways for journey to any one the 12 stations in Allahabad region serving Mahakumbh Mela and back the reverse ticket will be allowed to be booked upto 15 days in advance excluding the date of journey subject to levy of Mela Surcharge as per extant instructions. In this case also the difference of fare will be collected on board in the trains in case tickets are booked in advance and before 22-01-2013 in respect of above.

7. **Other Charges :** There is no change in charges for reservation fee etc. Such charges, wherever applicable, which shall continue to be levied additionally. However, the second class Superfast Surcharge shall be rounded off to ₹.10.00

8. The changes in fares as above came into force from 22-01-2013

9. Service Tax will be levied as applicable as per instructions issued in this regard.

10. Instructions issued under ARN No.11 of 2012 (Chg No.56/2012) that in the case of Rajdhani/Jan-shatabdi/Duronto Express trains, the concession wherever admissible and in child fare also, it will be granted only in the basic fares and that all other charges (Catering, Reservation Supplementary charges like Super fast, Surcharge, Enhanced Charges, Service Tax (if any) etc. shall be collected in full. This will be applicable from 01-04-2013 as per the said instructions issued vide Advance Rates Notification for Rate Advice No.11 of 2012 (Coaching No. 56/2012) dated 07-11-2012.

11. The revised composite fares for Shatabdi/Jan Shatabdi/Duronto Express trains are furnished as Annexures I to IX.

2. :- Fairs and Melas

Revision of rate of Mela Surcharge.

Based on the Board's Commercial Circular No of 2012 issued under letter No.TCII/2067/06/Mela Surcharge dated 6-12-2012 Advance Rates Notification for Rate Advice No. 12 of 2012 (Coaching No. 61/2012) was issued. The revised rate of Mela Surcharge w.e.f. 1-1-2013 is furnished below:-

Sl. No	Class	Existing (₹.)	Revised (₹.)
1	Second Class (Ordinary & Mail/Express)	3.00	5.00
2	Second Class (Ordinary & Mail/Express)	5.00	5.00
3	A.C. Chair Car & AC 3-tier	7.00	10.00
4	First Class/AC 2-tier	10.00	15.00
5	A.C. First Class	15.00	20.00

All other terms and conditions regarding levy of Mela Surcharge will remain the same

Collection charges on Terminal Tax/Pilgrim Tax collected on tickets sold by the Railways.

Based Board's letter No. 2003/Fin (Comml)/7/1 dated 18-04-2013, Advance Rate Notification for Rate Advice No.05 of 2013 (Coaching No.23/2013) was issued. The rate of collection charges on Pilgrim Tax to 34 per cent which was valid upto 31-03-2011. it has been decided to revise and fix the rate of collection charges at 39 per cent of the collections with effect from 1-4-2011 for a period of three years i.e. upto 31-3-2014

3. Concession in fares:

1. Concession to patients suffering from Aplastic Anaemia :

With effect from 1-6-2012. The element of concession in train fares to patients suffering from Aplastic Anaemia, when traveling for treatment/periodical check-up to recognized hospitals, and return after treatment/periodical check-up is 50 per cent. The element of concession in train fares to patients suffering from Sickle Cell Anaemia, when traveling for treatment/periodical check-up to recognized hospitals, and return after treatment/periodical check-up. The element of concession will be 50 per cent in the basic fares of Sleeper, AC Chair Car AC 3 tier and AC 2 tier classes. The concession will be admissible in basic Mail/Express fares only and not in other charges, like reservation fee, Superfast surcharge, Development surcharge, etc. which shall be recovered in full as per existing rules.

2. Concession to patients suffering from Sickle Cell Anaemic :

With effect from 1-6-2012, The element of concession in train fares to patients suffering from Sickle Cell Anaemia, when traveling for treatment/periodical check-up to recognized hospitals, and return after treatment/periodical check-up. The element of concession will be 50 per cent in the basic fares of Sleeper, AC Chair Car, AC 3 tier and AC 2 tier classes. The concession will be admissible in basic Mail/Express fares only and not in other charges, like reservation fee, Superfast surcharge, Development surcharge, etc. which shall be recovered in full as per existing rules.

3. Concession to Bona fide Professional Artists : Existing Rule :

As per existing rule No. 101 Under Serial No. 3 (i) *Bona fide* professionals entertaining companies or parties (theatrical and concert parties and music and dancing and Magician Troups except circus parties) in parties of not less than three are granted 75 per cent concession in sleeper class and 50 per cent concession in first class.

Revised Rule :

Bona fide Professional entertaining companies or parties (Theatrical, Concert parties, Music, Dancing and Magician troupes except circus parties of not less than three, eligible for 50 per cent concession in first class and 75 per cent concession in second/sleeper class are also eligible for (i) 50 per cent concession in A/C Chair car, AC 3 tier and AC 2 tier classes in the basic fares of Mail/Express trains and (ii) 50 per cent concession in AC Chair Car, AC 3 tier and AC 2 tier classes in all inclusive fares of Rajdhani/Shatabdi/Jan Shatabdi trains.

Position as on 31-3-2013		
Sl. No.	Division	Name of Out-Agency
1	Trivandrum	Kattapana Out-agency
2		Todupulai Out-agency
3		Adimally Out-agency
4		Aranmula Out-agency
5		Kumili Out-agency
6	Palakkad	Ponnani Out-agency
7		Pashassi Out-agency
8	Salem	Thiruchengode Out-agency
9		Rasipuram Out-agency
10		Paramathivelur Out-agency
11		Gobichettipalayam Out-agency

Sl. No.	Division	Name of City/Town B.O.
1	Tiruchi	Thirunallaru TBO
2	Tiruchi	Nagore Daurgha TBO

- Trivandrum Pala Out -agency has been closed on 28-5-2012
- Palakkad Kottakkal Out- agency has been closed on 16-3-2013

4. Revision of rates for goods traffic :-

I There is no across the board increase in freight rates.

II Dynamic Pricing Policy :-

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

The following are various in force during 1-4-2012 to

Busy Season Surcharge

Busy season charges below has been levied from:

Sl. No.	Commodities
1	Food grains, Flours
2	Chemical Manures
3	All other commodities
4	Container Traffic
5	Automobile Traffic BCACM & BCCNR

Congestion Surcharge :-

Congestion charge mentioned in the table below has been levied during the period extended from 1st

Sl. No.	Commodities
1	All Traffic to Bangladesh
2	All Traffic to Pakistan

General :-

(1) Service Tax :-

It has been decided that transportation of Goods by Rail will be levied at the following rates. The same

Service Tax 12%

Education Cess of 2% on Service Tax
Higher Education Cess of 1% on Service Tax

Since an abatement of 5% has been permitted on freight for the taxable charges on 30 per cent. charges on goods.

(ii) It has been decided that the service Tax will be levied at the rate of ₹.750/- (Rupees Seven Hundred and Fifty Only) per tonne from 24-11-2012.

5. Concessional Rate :-

Graded concession on non-refined salt, meant for consumption subject to a minimum freight as given below from 6-12-2012

Distance (KM)	Concessional Rate %
1-1000	Nil
1001-1500	10
1501-2000	15
2001-3000	20
3001 & Above	25

This has the approval of C

rates/surcharges which were in force during 1-4-2012 to 31-3-2013.

rates mentioned in the table below has been levied during the period extended from 1st

	Rates
Pulses	10 per cent
	10 per cent
	12 per cent
	NIL
in NMG, is	NIL

freight charges at the rates mentioned in the table below has been levied during the period extended from 1st

	Rate of Charge
	20 per cent
	20 per cent

and the levy of Service Tax on the service Tax is levied at the rate of 12% applicable from 1-10-2012.

Service Tax.
1% on Service Tax.

5 per cent has been permitted on freight for the taxable charges on 30 per cent. charges on goods.

by ₹.750/- (Rupees Seven Hundred and Fifty Only) per tonne Quotation/Certificate with effect from 24-11-2012.

freight rates for booking of wagons for consumption subject to a minimum freight as given below to be granted with effect from 6-12-2012

Distance (KM)	Minimum Freight
1-1000	As applicable
1001-1500	Not less than freight for distance 1000 kms.
1501-2000	Not less than freight for distance 1500 kms.
2001-3000	Not less than freight for distance 2000 kms.
3001 & Above	Not less than freight for distance 3000 kms.

M/R & FM.

6 Refunds on Goods Traffic

Sl. No.	Description	April to March	
		2011-12	2012-13
1	Number of cases carried forward from previous year.	648	351
2	No. of cases received/re-opened during the year.	9,839	11,286
3	Number of cases disposed off during the year.	10,136	11,265
4	Number of cases on hand at the end of the year and carried forward to next year.	351	372
5	Number of cases outstanding for over 3 months but less than 6 months.	42	13
6	Number of cases outstanding for over 6 months.	255	269
7	Number of cases pending in the court at the end of the year.	1	1
8	Average time taken to settle	22.08	23.01

Registration of refund claims during April 2012 to March 2013 is 11,286 as against 9,839 during April 2011 to March 2012.

The Number of refund cases pending at the end of March 2013 is 372 as against 351 at the end of March 2012.

The Number of cases pending 3 to 6 months is 13 at the end of March 2013 as against 42 at the end of March 2012.

The Number of cases pending over 6 months is 269 at the end of March 2013 as against 255 at the end of March 2013.

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 month old cases and to bring down the outstanding pending cases.

7. Rebate on Export Traffic :

The scheme was not in force in 2012-2013.

8. Introduction of Freight Incentive Schemes :

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

- Incentive Scheme for Loading Bagged Consignments in Open & Flat wagons.
- Incentive Scheme for Traditional Empty Flow Directions.
- Incentive Scheme for Freight Forwarders.
- Incentive Scheme for Incremental Traffic.

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

The performance under various Freight Incentive Schemes during 2012-13 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 :

Name of the Firm availed the Scheme	2012-13	
	Quantum moved (in tonnes)	Freight collected (₹)
M/s. Shrinivasa Roadways	64,802	9,39,21,379

4) Incentive Scheme for Incremental Traffic

Nil.

9 LOADING DETAILS UNDER TRANSPORTATION PRODUCTS APRIL 2012-MARCH 2013

	MAS	MDU	TPJ	SA	PGT	TVC	Total
Block	257	358	20	96	1489	881	3101
Bake	4	Nil	Nil	602	178	33	817
Mini Rake	Nil	Nil	134	Nil	17	Nil	151
Two point Rake	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Multi Point Rake	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Two and Multi Point Rake (Other than covered wagons)	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Rake from Two Originating Terminals	Nil	Nil	Nil	Nil	Nil	44	44
Rake from Two Originating Terminals (Other than covered wagons)	Nil	Nil	Nil	54	Nil	Nil	54

10. (A) Claims Registration

Year	Registration
2011-12	1253
2012-13	891

(b) Claims Performance

Details	2011-12	2012-13
Opening Balance	145	76
Registration	1253	891
Re-opened	82	59
Total	1481	1026
No. of cases paid	106	81
No. of cases repudiated	1299	823
Total Disposal	1405	904
Closing Balance	76	122
Amount paid (Excl. court cases)	3.55	1.92
Amount paid in court cases	25.50	1.05
Total amount paid	29.05	2.97
Average time for disposal	46 days	53 days

10 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
..	2012-13	..	..
Theft of complete packages ..	2011-12	00	00
..	2012-13	00	00
Pilferages ..	2011-12	00	00
..	2012-13	00	00
Damage by wet ..	2011-12	00	00
..	2012-13	00	00
Delay in transit ..	2011-12	00	00
..	2012-13	00	00
Breakage ..	2011-12	00	00
..	2012-13	00	00
Leakage ..	2011-12	00	00
..	2012-13	00	00
Others ..	2011-12	00	00
..	2012-13	82	2.97
Total ..	2011-12	106	3.55
..	2012-13	82	2.97

10(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
..	2012-13	..	..
Iron & Steel ..	2011-12	0	0
..	2012-13	0	0
Cotton piece goods ..	2011-12	02	0.12
..	2012-13	5	0.14
Chemicals & Manure ..	2011-12	0	0
..	2012-13	0	0
Coal & Coke ..	2011-12	0	0
..	2012-13	0	0
P. O. L. ..	2011-12	0	0
..	2012-13	0	0
Others ..	2011-12	104	3.43
..	2012-13	71	1.71
Total ..	2011-12	106	3.55
..	2012-13	76	1.85

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

Details	2011-12	2012-13	% Variation
Opening Balance ..	337	256	- 24%
Registration ..	72	22	- 38%
Transferred cases ..	..	..	..
Total ..	409	355	- 13%
Settled out of court ..	..	..	..
Decreed ..	59	48	-19%
Dismissed ..	86	53	-38%
Others ..	08	05	-38%
Total ..	153	106	- 13%
Closing Balance ..	256	249	- 3%

(f) Court cases trend (Be

RCT	Opening Balance
RCT/MAS	04
RCT/ERS	..
Other Railways RCT Cases	126
Civil Suits	04
Consumer Forum cases	95
Appeal cases in High Courts & Supreme Court	27
Total	256

(g) Accident cases (Sec

RCT	Opening Balance
RCT/MAS	29
RCT/ERS	07
Other Railways RCT Cases	01
Appeal cases in High Courts	08
Total	45

(h) Accident cases (Sec

RCT	Opening Balance
RCT/MAS	86
RCT/ERS	59
Other Railways RCT Cases	74
Appeal cases in High Courts	200
Total	419

(i) P.S. Us.

RCT's	Opening Balance
RCT/MAS	01
RCT/ERS	..
Other Railways RCT Cases	16
Appeal cases in High Courts & S/C	05
Total	22

se, excluding accident cases)

is-on	Total	Disposal	Closing Balance
..	05	01	04
..	..	..	..
..	149	59	90
..	04	..	04
..	169	45	124
..	28	01	27
..	355	106	249

4) During The Year 2012-13

is-on	Total	Disposal	Closing Balance
..	53	52	01
..	07	07	..
..	04	04	..
..	08	..	08
..	72	63	09

4-A)

is-on	Total	Disposal	Closing Balance
..	409	251	158
..	143	109	34
..	92	07	85
..	230	22	208
..	874	389	485

Total	Disposal	Closing Balance
01	..	01
..	..	..
16	13	03
05	..	05
22	13	09

(j) Causewise and Commodity wise Analysis of claims paid in Court during 2012-13.

Cause	Commodity	Amount in ₹
Short-delivery	Art silk Sarees	1,04,805

11. Claims prevention – Preventive Measure :

(a) N.R. Cell

A total of 220 wagon load consignments were disposed off by the NR Cell of this Railway thereby averting claims to the tune of ₹ 2319 lakhs. 716 Parcel cases were also disposed by the NR Cell during the same period saved ₹ 74.19 lakhs.

	Wagon Loads		Parcels	
Details	2011-12	2012-13	2011-12	2012-13
Opening Balance	13	26	17	19
Registration	179	227	864	710
Total	192	253	88	729
Disposal	160	220	86	716
Closing Balance	26	33	19	13
Amount saved (₹ in Lakhs)	1963.5	2319	101.8	74.19

(b) C. P. Checks :

During the year 2012-13, 23 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.

12. Lost Property Office

(a) Position of unconnected/undelivered parcels :

Details	2011-12	2012-13
Opening Balance ..	356	242
Registration ..	1038	1012
Total ..	1394	1254
Disposal ..	1152	967
Closing Balance ..	242	287

(b) Auction at lost property offices :

LPO	Opening Balance	Registration	No. of Auctions conducted	No. of items disposed	Amount realised ₹ through Auction
MAS	162	594	30	532	12,28,799
ED	02	85	03	70	51,954
CBE	06	77	09	80	1,65,431
CLT	09	85	07	70	1,36,733
ERS	05	18	09	17	28,077
TVC	16	40	04	35	46,379
QLN	04	25	02	05	6,941
MDU	16	46	04	49	54,835
TPJ	22	42	02	17	19,253
Total	242	1,012	70	881	17,38,402

13. 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'.

14. Refunds on Goods Traffic

Sl. No.	Particulars	2012-2013	
		Passenger Traffic	Parcel Traffic
1	Number of cases carried forward from previous year.	21,974	Nil
2	No. of cases received & re-opened during the year.	1,75,627	8
3	Number of cases disposed off during the year.	1,81,835	8
4	Number of cases on hand at the end of the year and carried forward to next year.	15,746	Nil

15. Tabulated statement showing the comparative details of refund claims dealt with in Railway (For the Year 2011-2012 & 2012-2013)

2011-2012										2012-2013					
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
Apr'11	23575	10273	1	33849	9073	24776	18%	69	2395968	Apr'12	21954	8688	19	30661	13803
May'11	24776	10220	12	35008	11071	23937	108%	111	3155637	May'12	16858	18082	66	35006	11651
Cum		20493	13		20144		98%		5551605	Cum		26770	85		25454
Jun'11	23937	11250	9	35196	11018	24178	98%	89	3480927	Jun'12	23355	14053	13	37421	9080
Cum		31743	22		31162		98%		9032532	Cum		40823	98		34534
Jul'11	24178	14449	15	38642	12722	25920	88%	78	3480927	Jul'12	28341	13359	34	42734	8138
Cum		46192	37		43884		95%		12513459	Cum		54182	132		42672
Aug'11	25920	12385	12	38317	11588	26729	94%	53	3049965	Aug'12	33596	13249	23	46868	19486
Cum		58577	49		55472		95%		15563424	Cum		67431	155		62158
Sep'11	26729	11909	5	38643	7627	31016	64%	55	2183605	Sep'12	27382	14031	5	41418	15374
Cum		70486	54		63099		90%		17847029	Cum		81462	160		77532
Oct'11	31016	15545	9	46570	9152	37418	59%	61	2671799	Oct'12	26044	13384	12	39440	16193
Cum		86031	63		72251		84%		20418828	Cum		94846	172		93725
Nov'11	37418	15095	28	52541	10720	41821	71%	71	2979149	Nov'12	23247	16813	11	40071	21580
Cum		101126	91		82971		82%		23397977	Cum		111659	183		115301
Dec'11	41821	9828	28	51677	11371	40306	116%	67	3284429	Dec'12	18491	13833	0	32324	10254
Cum		110954	119		94342		85%		26682406	Cum		125492	183		125551
Jan'12	40306	14406	17	54729	11413	43316	79%	89	4774831	Jan'13	22070	19641	33	41744	18311
Cum		125360	136		105755		84%		31457137	Cum		145133	216		143871
Feb'12	43316	10993	53	54362	17230	37132	157%	101	5170200	Feb'13	23432	16247	12	39691	16801
Cum		136353	189		122985		90%		36627337	Cum		161380	228		160671
Mar'12	37132	11081	8	48221	26267	21954	237%	111	6882558	Mar'13	22885	13765	262	36912	21161
Cum		147434	197		149252		101%		43509895	Cum		175145	490		181841

fund offices over Southern

% cleared as compared to accrual	Average Time	Amount Refunded (₹)	Percentage variation as compared to previous year	
			Accrual	Disposal
59%	71	3689517	-150.4%	52.1%
64%	63	3194603	76.9%	5.2%
95%		9884120	30.6%	26.4%
65%	45	2930720	24.9%	-17.6%
85%		9814840	28.6%	10.8%
61%	50	31997080	-7.5%	-36.0%
79%		11811920	17.3%	2.8%
147%	129	4616404	7.0%	68.2%
92%		16428324	15.1%	12.1%
110%	80	3685847	17.8%	101.6%
95%		20114171	15.6%	22.9%
121%	83	1401001	-13.9%	76.9%
99%		21515172	10.2%	29.7%
128%	86	4469996	11.4%	101.3%
103%		25985168	10.4%	39.0%
74%	60	1836536	40.8%	-9.8%
100%		27821704	13.1%	33.1%
93%	85	2576131	36.3%	60.4%
99%		30397835	15.8%	36.0%
103%	88	4273307	47.8%	-2.5%
100%		34671142	18.4%	30.6%
154%	71	6882558	24.2%	-19.4%
104%		41553700	18.8%	21.8%

16. Ticketless Travel

The comparative statistics are given below :

Year	Total No. of cases of Ticketless Travel	Amount realised There from (₹)
2011-12	700423	27,35,48,817
2012-13	786831	31,07,23,986

17. Ticket Checking Details of Detection of Irregular travel

The cases of irregular travel detected, excess charges recovered and cases dealt with the Court during 2012-2013 are as under :—

	₹
1. No. of Passengers found travelling irregularly	7,86,831
2. No. of cases unbooked/partially booked luggage	1,17,598
3. Total Penalty earnings from (1) and (2) above	33,28,10,443
4. Gross ticket checking earnings including non-penalty earnings.	79,79,30,222
5. No. of Passengers prosecuted	37,520
6. No. of Passengers imprisoned	133
7. No. of Passengers fined	37,187
8. No. of Passengers let-off..	200
9. Amount of Judicial Fine Realised	1,13,33,245
10. No. of Mendicants ejected	18,280
11. Total cost incurred on Ticket Checking Staff	1,11,64,95,111

18. Road Competition

Road Operators co Railway with their inhe door-to-door services, claims on the spot, e and Zonal Permits for competitions further.

Marketing and Sales C attract higher rated/high held with Traders, Cust etc. at divisional and he

Freight :

Southern Railw Exporters and port m new traffic wherever p scheme is that Mark **Single Window** " cle scheme has found c Importers/Exporters a substantial quantum detailed below :—

Sl. No.	Commodities
1	Imported Coal..
2	Imported Fertilizer
3	Imported Limestone
4	Imported Dolomite

to offer stiff competition to the advantages of negotiable rate, transit, instant settlement of the issue of National permits operators has stiffened the

ation has intensified efforts to g traffic. Regular Meetings are firms, Chamber of Commerce, ters level.

sely liaise with Importers/ nent for capturing additional/ e. Primary advantages of the Wing of Railway act as a " for movement by Rail. This able patronage among the outhern Railway has moved mported Commodities as

2012-13	
Tonnage 000's	Earnings (₹ in Crores)
5,638	262.81
598	56.69
2,764	211.97
954	7,183.30

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	
	2011-12	2012-13	2011-12	2012-13
a. High Rated Traffic	379	321		49.16
b. Programmed Traffic	33177	30973	1500.17	1734.19
c. Low rated Traffic	2191	2048	154.45	166.03
d. Other Revenue Traffic	3,650	4,631	246.30	366.23

3. The originating goods loading over Southern Railway during 2012-13 was 37.974 Million Tonnes as against 39.398 Million Tonnes during 2011-12. Similarly the originating Goods Earnings during 2011-12 were 2,421.57 Crores as against 2,051.05 Crores during 2011-12.

4. Loading of High rated commodities and other goods.

There was considerable increase in loading under the following commodities in 2012 - 13 compared to 2011 - 12.

Sl. No.	Commodity	2011-12	2011-12	2012-13	2012-13
		Tonnes in lakhs	Earnings in lakhs	Tonnes	Earnings
1	Caustic Soda & Ash.	2,640	1.72	62,621	518.47

5. Automobile Traffic :

As a result of continuous liaison and effective marketing contacts with Automobile Traders, Southern Railway has moved 64 rakes with total revenue of ₹ 9.90 Crores during 2012-13.

6. Parcel

The Parcel loading during 2012-13 was 5.11 lakhs of tonnes with an earnings of ₹ 146.30 Crores as against 5.95 lakhs of tonnes with earnings of ₹ 154.37 Crores during 2011-12.

Under FSLR, AGC and round trip VP leasing scheme, Southern Railway had earned ₹ 62.82 Crores during the year 2012-13.



VII. यांत्रिक इंजीनियरी/MECHANICAL ENGINEERING

Stock on Line

(a) Rolling Stock

The particulars of Rolling Stock on line owned at the end of March 2013 as compared to the previous year :—

As on 31st March 2013	Locomotives						Passenger and other Coaching Vehicles	Rail in use		
	Broad Gauge			Metre Gauge						
	Elec. A.C. Locos	DSL Locos	DSL. Hyd. Locos	Elec.	Steam	DSL. Locos				
	B. G.	M. G.	B. G.	M. G.	B. G.	M. G.				
Previous year 2011-2012	*	321	60	*	10	23	5,711	63	-	-
Current year 2012-2013	*	322	53	*	10	9	5,963	63	-	-

to the previous year :—

Locomotives & EMU's in 4 Coach units		
B. G.	M. G.	T. C.
371	239	480
384	245	494

As on 31st March 2013	Wagon in Units		Travelling Cranes		
	B. G.	M. G.	Steam	Diesel	Hand
Previous year 2011-2012	9,753	287	..	5	..
Current year 2012-2013	9,676	281	..	5	..

METRE GAUGE

Diesel	Hand
..	..
..	..

2. Additions and Renewal

Particulars	BROAD GAUGE		
	Additions	Replacement	Adc
LOCOS :			
Steam	..	..	..
Diesel	25 (#)	..	..
Electric	..	..	..
COACHES :			
Bogies	400	..	..
Locos	15	2	..
Coaches	MC TC	..	..
EMU Trailer Coaches	6 14	..	..
Transferred from other Railways	..	..	..
Transferred to other Railways	..	..	..
WAGONS :			
Bogies	30	..	..

TRE GAUGE

Replacement
..
..
..
..
..
..
..

Out of 25 New Locos 6 WDS6 locos added are locos converted from YDM4.

2.1 Wagon built by wagon building firms and Railway Workshop (2012-2013)

Name of the Firm	Type	No. in Vehicle units	No. in 4-Wheelers units
Broad Gauge Stock	Nil	Nil	Nil
M/s. Hindustan Engineering Industries Ltd. Kolkata	BOBYN	30	—
M. G. STOCK	Nil	Nil	Nil

2.2 Goods Stock Transferred from other Railways

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

3. Locomotives On

(a) Steam Locos

As on 31st March 2013
Previous Year 2011-2012
Current Year 2012-2013

(b) Diesel Locomotives

As on 31st March 2013
Previous Year 2011-2012
Current Year 2012-2013

with their Tractive efforts

Broad Gauge	Metre Gauge	
Total Tractive Efforts (Kgs.)	No.	Total Tractive Efforts (Kgs.)
..	10	1,18,812
..	10	1,18,812

Gauge	Metre Gauge	
Total Tractive Efforts (Kgs.)	No.	Total Tractive Efforts (Kgs.)
1,38,710	23	4,41,600
3,69,210	9	1,72,800

(c) **Electrical Locomotives on line with their tractive effort :-**

Particulars	Broad Gauge	
	Nos.	Horse Power
As on 31st March Previous Year 2011-12.	WAM 4—32 WAP1—33 WAP 4—144 WAG 7—71 WAG5A/HA-91	1,16,480 1,25,400 7,28,640 3,55,000 3,50,350
Current year 2012-13	WAM 4—30 WAP1—33 WAP 4—144 WAG 7—81 WAG5A/HA-91 WAP7—5	1,09,200 1,25,400 7,20,000 4,05,000 3,50,350 30,600

5. Goods Vehicles and carrying capacity

As on 31st March current year 2012-13	Public Traffic Wagons Covered Wagons Open Wagons				Special wagons including Brake Vans (No. in units)	Depot. Railway Service wagons (No. in units)	Total Goods vehicles (No. in units)
	No. in units	Capacity in tonnes	No. in units	Capacity in tonnes			
Broad Gauge	5364	273733.8	3085	220377.25	1203	2	9654
Metre Gauge (Incl. N. M. Railway)	261	7131.4	19	712.2	4	6	290

6. Diesel Rail Cars

As on 31st March 2013	(A) Motor Coaches		(B) Trailer Coaches	
	No. in units	Total Seats	No. in units	Total seats
Previous year 2011-12	..	..	..	..
Broad Gauge	..	..	..	..
Metre Gauge	..	..	..	..
Narrow Gauge	..	..	..	..
Current year 2012-13	..	..	..	..
Broad Gauge	..	..	..	..
Metre Gauge	..	..	..	..
Narrow Gauge	..	..	..	..

Electrical Multiple Units

Particulars	Motor Coaches		Trailer Coaches	
	Nos.	Horse Power	Nos.	Horse Power
As on 31st March 2011-2012	..	..	..	..
Broad Gauge	239	25573	480	47006
As on 31st March 2012-2013	..	..	..	..
Broad Gauge	245	26215	494	48377

7. Travelling Cranes

As on 31st March 2013	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 2011-12.	..	..	5	140T X 5	..	..
Broad Gauge Current year 2012-13.	..	..	5	140T X 5	..	..
Metre Gauge Previous year 2011-12.	5	35T X 5	..	..	..	..
Metre Gauge Current year 2012-13.	5	35T X 5	..	..	..	..

4. Coaches Vehicles and seating capacity (Except EMU)

As on 31st March current year 2012-13	Pass. Coaches (No. in units)	Other Coaching Vehicle (No. in units)	Total Seats			
			Air condition	Ist Class	II Class Berths	Seats
Broad Gauge	5447	516	51729	1326	139244	403212
Metre Gauge (including N. M. Railway)	55	8	..	370	..	2379

8. Rolling Stock by Age Group

(a) **Locomotives (Steam)**

Age Group	Broad Gauge				Metre Gauge			
	Previous Financial		Current Financial		Previous Financial		Current Financial	
	Year		Year		Year		Year	
	2011-2012		2012-2013		2011-2012		2012-2013	
	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	2011-2012		2012-2013	
	Nos.	Percentage	Nos.	Percentage
Less than 1 Year	..	5	17	4.43
1 to 5 Years	..	68	58	15.10
6 to 10 Years	..	50	58	15.10
11 to 15 Years	..	92	91	23.71
16 to 20 Years	..	54	40	10.42
21 to 25 Years	..	61	78	20.31
26 to 30 Years	..	5	10	2.60
Above 30 Years..	..	36	32	8.33
Total	..	371	384	100.00

(ii) Trailer Coaches 11

(c) Wagons

<u>Broad Group</u>	
Age Group	Previous Financial Year
Year	2011-2012

(i) *Motor Coaches*

9. Rolling Stock on line

(a) Overaged Steam Locomotives on line as on 31st March 2013

: GAUGE

Stock condemned in current financial year 2012–2013					
3-	Total	Per-	Non-	Re-	Total
aced		centage	Re-	placed	
		of over-	placed		
		aged to			
		total			
16	17	18	19	20	21
6	10	..	..	..	..
..	..	..	..	..	..
..	..	..	..	..	..

(b) Number of locomotives put off and new locomotives put on line during the year (Current Financial Year) 2012-2013.

Particulars	BROAD GAUGE			METRE GAUGE		
	Steam	Diesel	Electric (A/C.)	Steam	Diesel	Electric (A/C.)
1. No. of locomotives taken off the line	..	31	2	..	..	..
2. No. of locomotives placed on line	..	25	15	..	..	..
3. No. of locomotives permanently transferred from other Railway.	..	..	..	..	..	..
4. No. of locomotives permanently transferred to other Railway.	..	..	..	..	..	..

(c) Overaged Coaching Stock on line as on 31st March 2013—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 2012-2013		
		Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total		Non-Replaced	Replaced	Total
BROAD GAUGE—COACHES											
1.	Air-conditioned class	909	..	909	2	..	2	0.03	1	..	1
2.	Upper Class (First)	34	..	34	..	..	..	0.00	1	..	1
3.	Composite Class	..	..	..	..	..	..	0.00	..	..	..
4.	Lower Class (Second).	4,504	..	4,504	37	..	37	0.62	69	..	69
5.	Tourist Car Inspection. Carriage and Dining Cars.	177	..	177	..	..	..	0.00	1	..	1
6.	All other coaching Vehicles excluding these under item 5.&PPS.	339	..	339	12	..	12	0.20	8	..	8
Total		5,963	..	5,963	51	..	51	0.85	80	..	80

<i>Trailer Coaches</i>	<i>DMU</i>	<i>DTC & TC</i>	<i>Coaches</i>
Diesel Power Coaches	0	0	0
Trailer Coaches TC	59	0	59
Diesel Trailer Coaches DTC	6	0	6
Total	65	0	65

Particulars	Total stock owned			Stock Over Aged			Percentage of overaged to total stock on line	Stock condemned during the current financial year 2012-2013		
	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	..	..	..
5. Tourist Car Inspection Carriage and Dining Cars.	2	..	2	2	..	2	6.25	..	..	..
6. All other coaching Vehicles excluding these under item. 5 & PPS	2	..	2	1	..	1	3.13	..	..	..
Total	32	..	32	3	..	3	9.38	..	..	..

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

RAIL BUS			
YRB	1	0	1

(d) Overaged wagon stock on line as on 31st March 2013 (Broad Gauge wagon.

Type of Wagons	Stock on Line			Stock Overaged			Percentage of overaged to total stock on line
	Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total	
BROAD GAUGE—WAGONS							
1. Covered	4873	0	4873	18	0	18	0.19
2. Open	3085	0	3085	9	0	9	0.09
3. Brake-vans	267	0	267	13	0	13	0.13
4. Tank Wagons	491	0	491	72	0	72	0.75
5. Special Stock	936	0	936	36	0	36	0.37
6. Railway Service Wagons.	2	0	2	1	0	1	0.01
Total ..	9654	0	9654	149	0	149	1.54

METRE GAUGE—WAGONS							
1. Covered	197	0	197	34	0	34	11.72
2. Open	19	0	19	9	0	9	3.10
3. Brake-vans	4	0	4	0	0	0	0.00
4. Tank Wagons	64	0	64	36	0	36	12.41
5. Special Stock	6	0	6	0	0	0	0.00
6. Railway Service Wagons.	0	0	0	0	0	0	0.00
Total ..	290	0	290	79	0	79	27.24

Particulars	BROAD GAUGE	
	Coaches	Wagons
Number put on the line during the year 2011-2012.	327	40
Number put on line during the year 2012-2013.	402	30

* 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.	%		
Previous Financial Year	2011-2012		BROAD GAUGE											
Diesel Electric	..	297.00	25.30	8.52	6.7	2.26	..	..	8.6	6.26	..	..		
Diesel Hydraulic	..	21.17	1.66	7.84	0.70	3.31	-	-	9.6	4.53	..	..		
Electric	..	354.27	26.74	7.55	5.85	1.65	-	-	8.9	5.90	..	..		
Total	..	672.44	53.7	7.99	13.25	1.97	-	-	4.5	6.02	..	..		
Previous Financial Year	2011-2012		METRE GAUGE											
Steam	..	9.00	3.88	43.11	1.76	19.56	-	-	12	23.56	..	..		
Diesel Electric	..	13.00	0.00	0.00	0.00	0.00	-	-	0.00	0.00	..	..		
Diesel Hydraulic	..	..	..	..	..	..	..	..	..	..	..	..		
Electric	..	..	..	..	..	..	..	..	..	..	..	..		
Total	..	22.00	3.88	17.64	1.76	8.00	-	-	12	9.64	..	..		
Current Financial Year	2012-2013		BROAD GAUGE											
Diesel Electric	..	297.00	25.30	8.52	6.7	2.26	-	-	8.6	6.26	..	..		
Diesel Hydraulic	..	15.81	0.81	5.12	0.00	0.00	-	-	8.1	5.12	..	..		
Electric	..	376.46	30.66	8.14	5.00	1.33	-	-	6.6	6.82	..	..		
Total	..	689.27	56.77	8.24	11.70	1.70	-	-	0.7	6.54	..	..		
Current Financial Year	2012-2013		METRE GAUGE											
Steam	..	10.00	3.25	32.50	2.30	23.00	-	-	9.5	9.50	..	..		
Diesel Electric	..	13.00	0.00	0.00	0	0.00	-	-	0	0.00	..	..		
Diesel Hydraulic	..	..	..	..	..	..	..	..	..	..	..	..		
Electric	..	..	..	..	..	..	..	..	..	..	..	..		
Total	..	23.00	3.25	14.13	2.3	10.00	-	-	9.5	4.13	..	..		

(b) Coaching stock under or Awaiting Repairs

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
<u>BROAD GAUGE</u>													
<i>Passenger Coaching Vehicles—</i>													
2011–2012	..	..	5018	293.36	5.85	163.69	3.26	69.04	1.38	18.04	0.36	42.59	0.85
2012–2013	..	..	5331	375.07	7.04	218.89	4.11	58.73	1.10	53.03	0.99	44.42	0.83
<i>Other Coaching Vehicles—</i>													
2011–2012	..	..	293	20.57	7.02	10.49	3.58	3.00	1.02	4.61	1.57	2.47	0.84
2012–2013	..	..	330	24.63	7.46	11.84	3.59	3.43	1.04	6.12	1.85	3.24	0.98
<i>All Coaching Vehicles—</i>													
2010–2011	..	..	5311	313.91	5.91	174.18	3.28	72.04	1.36	22.65	0.43	45.06	0.85
2011–2012	..	..	5661	399.70	7.06	230.73	4.08	62.16	1.10	59.15	1.04	47.66	0.84

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	
<u>METRE GAUGE</u>													
Passenger Coaching Vehicles—													
2011–2012	..	..	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2012–2013	..	..	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Coaching Vehicles—													
2011–2012	..	..	0	0.00	#DIV/0!	0	#DIV/0!	0.00	#DIV/0!	0	#DIV/0!	0.00	#DIV/0!
2012–2013	..	..	0	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
All Coaching Vehicles—													
2011–2012	..	..	28	0.00	0.00	0.00	0.00	0	0.00	0	0.00	0.00	0.00
2012–2013	..	..	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>									
2011–2012	8,350	528.00	6.32	85	1.02	216	2.59	226.92	2.72
2012–2013	8,841	676.00	7.65	100	1.13	267	3.02	308.17	3.49
<u>METRE GAUGE</u>									
2011–2012	0.00	0	0.00	0	0.00	0	0.00	0	0.00
2012–2013	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. Unit repairs
Previous Financial Year 2011-2012	—	..	..	—	—
Current Financial Year 2012-2013	..	..	..	..	..
The kilometres between periodical overhaul of loco	No. Nil.				
Previous Financial Year 2011-2012	..	..	Nil.		
The kilometres between periodical overhaul of loco	No. Nil.				
Current Financial Year 2012-2013	..	..	Nil.		

Average number of days taken for POH	
Calendar days	Working days excluding Sundays and Shop Holidays
—	—
..	..

(b) Over aged coaching and wagon stock on line as on 31st March 2013**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	
(a) Locos	Nos.	%	Nos.	%	Nos.	%	Nos.	%
Broad Gauge			Coaching		..	..	..	..
2011-2012	354.27	100	20.95	10.26				
			Goods	11.32				
			16.99					
2012-2013		100	Coaching		..	..	..	..
			21.02	10.26				
			Goods					
			16.90	10.12				

alled and sportation Shop	Locos in Transit		
	%	Nos.	%
ing			
5	10.26	..	..
ls			
9	11.32		
ing			
2	10.04	..	..
ls			
0	10.12		

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

2011-2012	238.50	100	17.43	7.32	..	..	..	..
2012-2013	241.67	100	18.38	7.60	..	..	..	..

3	7.32	..	..
3	7.60	..	..

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

		Previous Financial Year 2011-2012			C	
Shop	Activity	Periodical Over hauling	Off Schedule		Total	Periodical Over hauli
			Over Rs. 100	Below Rs. 100		
BROAD GAUGE						
Perambur Carriage Works —						
Passenger Coaches	PCVs	1597	126.2	0	1723.2	1746
Other Coaches	OCVs	207	0	0	207	213
	Total	1804	126.2	0	1930.2	1959
Perambur Loco Works—						
Passenger Coaches	PCVs	435	4.7	0	439.7	525
Other Coaches	OCVs	0	0	0	0	0
	Total	435	4.7	0	439.7	525
	DTC/TCs of DEMU	58	0	0	58	47
Golden Rock Workshops —						
Passenger Coaches	PCVs	675	75.5	0	750.5	785
Other Coaches	OCVs	52	0	0	52	49
	Total	727	75.5	0	802.5	834

Financial Year 2012-13		
Off Schedule		Total
Over Rs. 100	Below Rs. 100	
113	0	1859
0	0	213
113	0	2072
2.7	0	527.7
0	0	0
2.7	0	527.7
0	0	47
75	0	860
0	0	49
75	0	909

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

Shop	Activity	Periodical Over hauling	Previous Financial Year 2011-2012			Current Financial Year 2012-2013			
			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	4	0	0	4	14	0	0	14
Other Coaching Vehicles	OCVs	0	0	0	0	1	0	0	1
	Total	4	0	0	4	15	0	0	15

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

Shop	2011-2012			2012-2013		
	Periodical Overhaul	Off. Schedule	Total	Periodical Overhaul	Off. Schedule	Total
BROAD GAUGE						
Perambur Carriage Works ..	2,653	0	2,653.0	2,701	0	2,701
Golden Rock Shops ..	0	0	0	0	0	0
Total ..	2,653	0	2,653.0	2,701	0	2,701
METRE GAUGE						
Golden Rock Shops ..	0	0	0.0	..	..	0

Note :—PCVs – Passenger Coaching Vehicles, OCVs – Other Coaching Vehicles.

(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
	2011-2012	2012-2013	2011-2012	2012-2013
	(Actuals)	(F. M.)	(Actuals)	(F. M.)
Passenger Coaches—				
Perambur Carriage Works ..	14.4	14.7	..	..
Perambur Loco Works ..	10.95	12.32	..	..
Golden Rock ..	17.0	19.0	..	..
Other Coaching Vehicles—				
Perambur Carriage Works ..	11.8	17.8	..	..
Perambur Loco Works ..	..	..	..	..
Golden Rock ..	15.5	13.0	..	..
Wagons—				
Perambur Carriage Works ..	4.5	4.0	..	..
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
	2011-2012	2012-2013	2011-2012	2012-2013
	(Actuals)	(F. M.)	(Actuals)	(F. M.)

Locomotives

(i) Unit repair cost (per loco)				
Steam Loco GOC	..	..	..	5382
Driving power Car of DEMU	3096	3363	No Activity	
Dsl. Hyd. LW/PER	4292	..		
AC Electric LW/PER	9090	8236		
Dsl. Elec. GOC	8550	8720	..	6910

(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
	2011-2012	2012-2013	2011-2012	2012-2013
	(Actuals)	(F. M.)	(Actuals)	(F. M.)

(ii) Average cost of repairs per passenger carriage (in FWU's)—PCVs-POH				
Carriage Works/Perambur	720	794	No Activity	
Loco Works/Perambur	633	671		
Golden Rock	..	733		
Driving Trailer coach of DEMU – POH LW/PER	856	916		
Trailer coach of DEMU – POH LW/PER	802	649		
(iii) Average cost of repairs per other coaching vehicles (in FWU's)—OCVs-POH				
Carriage Works/Perambur	484	729	No Activity	
Loco Works/Perambur	..	..		
Golden Rock Workshops	239	548		
(iv) Average cost of repairs per wagon (FWU's)—Wagons-POH				
Carriage Works/Perambur	224	208.5	No Activity	
Golden Rock Workshops	..	..		

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

	Years	
	2011-2012	2012-13
(i) Average cost of maintenance and repairs per locomotive (Electrical) without POH cost.		
Broad Gauge	..	21.85
Metre Gauge	..	23.59
(ii) Average cost of maintenance and repairs of EMU coach unit		
Broad Gauge	..	27.76
Metre Gauge	..	26.56

12. Locomotives Coaches and Wagons overdue Repairs

Rolling Stock	BROAD GAUGE						METRE GAUGE			
	Previous Financial		Current Financial		Current Year as March	ial st	Current Financial			
	Year as on 31st		Year as on 31st				Year as on 31st			
	March 2012		March 2013				March 2013			
	No.	Percentage	No.	Percentage	No.	stage	No.	Percentage		
(i) Locomotives—										
(a) Steam	Nil	Nil	Nil	Nil	1	0	2	0.20		
(b) Diesel Electric ..	1	0.36	1	0.33	0	0	0	0		
(c) Diesel Hydraulic ..	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil		
(ii) Coaches—										
(In VU's)	32	0.57	1	0.11	0	0	0	0		

13. Engine Failures (Diesel Locos)

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
2011-12	22	883	22	..	..	33	..	..
2012-13	2	10386	2	..	..	326	..	..

BROAD GAUGE

Diesel Electric Locos—								
Previous Financial Year 2011-2012	126	294669	115	-	11	0110	@@	865051
Current Financial Year 2012-2013	126	293504	111	-	15	0770	@@	543137

Diesel Hydraulic Locos—

Previous Financial Year 2011-2012	..	2448(*)	..	..	..	@@	@@	2448(*)
Current Financial Year 2012-2013	..	320(*)	..	..	..	@@	@@	320(*)

METRE GAUGE

Diesel Electric Locos—								
Previous Financial Year 2011-2012	..	386470(*)	..	..	..	64(*)	@@	33506(*)
Current Financial Year 2012-2013	..	131608(*)	..	..	..	08(*)	@@	..

Diesel Hydraulic Locos—

Previous Financial Year 2011-2012	..	..	..	..	..	..	..	..
Current Financial year 2012-2013	..	..	..	..	..	..	..	..

Note.—(*) Denotes total engine KMs without failure

@@ There are is service.

Engine Failures (Electrical) 2011-2012 and 2012-2013

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
BROAD GAUGE								
2011-2012	40	17.13	35	..	5	2.65	..	48.46
2012-2013	36	20.05	28	..	8	5.98	..	34.32

Energy and Amount particulars of traction and Non-traction

Sl. No.	Description	Year	
		2011-12	2012-13
1	Traction consumption in million units	936.557	962.751
2	Non-traction consumption in million units	118.684	115.984
3	Total in million units	1055.24	1078.735
4	Traction amount paid ₹ in crores	454.449	595.842
5	Non-traction amount paid ₹ in crores 66.58	66.727	76.40
6	Total ₹ in crores	521.219	603.48
7	Traction Average rate ₹./kwh	4.93	6.18
8	Non-traction average rate ₹./kwh	5.62	6.59
9	Total	4.93	6.38

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 2011–2012	8	6	2	..	(+) 33.33%	0.27
Current Financial Year 2012–2013	2	1	1	..	(–) 75%	0.08
METRE GAUGE						
Previous Financial Year 2011–2012	..	..	..	..	..	..
Current Financial Year 2012–2013	..	..	..	..	..	..
(ii) Goods—						
BROAD GAUGE						
Previous Financial Year 2011–2012	30	5	25	..	(–) 25%	0.52
Current Financial Year 2012–2013	37	13	24	..	(+) 23.33%	0.83
METRE GAUGE						
Previous Financial Year 2011–2012	..	..	..	..	..	..
Current Financial Year 2012–2013	..	..	..	..	..	..

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

(-) Denotes decrease in the figures.

15 (a) Diesel Loco Shedwise yearly outage—2012-2013 B. G. (Mechanical)—Goods

Month	TARGET					ACTUAL				
	ED	GOC	ERS	TNP	TOTAL	ED	GOC	ERS	TNP	TOTAL
April	36.4	28.3	6.6	0.7	72.0	38.10	30.20	5.70	0.10	74.10
May	33.7	31.9	5.4	1.0	72.0	37.20	30.65	4.20	0.00	72.05
June	33.7	29.2	5.4	1.0	69.3	36.30	31.10	2.70	0.00	70.10
July	34.6	28.3	7.2	0.3	70.4	33.80	29.00	4.50	0.00	67.30
August	34.6	27.4	5.5	0.2	67.7	34.50	29.60	5.53	0.00	69.63
September	40.0	26.2	3.8	0.2	70.2	37.40	31.05	3.70	0.00	72.15
October	40.0	26.2	3.8	0.2	70.2	40.60	26.90	3.00	0.10	70.60
November	42.1	31.7	2.7	0.9	77.4	42.30	29.20	3.60	1.10	76.20
December	38.5	29.0	2.7	0.0	70.2	38.30	29.00	3.70	0.80	71.80
January	38.5	29.0	2.7	0.0	70.2	38.20	27.80	4.20	0.20	70.40
February	38.5	29.0	3.6	0.0	71.1	41.00	29.90	3.00	0.00	73.90
March	38.5	30.8	3.6	0.0	72.9	38.00	29.60	3.80	0.30	71.70
Total	449.1	347.0	53.0	4.5	853.6	455.7	354.0	47.6	2.6	859.9
Average	37.4	28.9	4.4	0.4	71.1	38.0	29.5	4.0	0.2	71.7

15(b)—Improvements Carried out in the existing Lower Class Carriage in 2012-13

-Nil-

VIII. बिजली इंजीनियरी/ELECTRICAL ENGINE

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

The following are the figures pertaining to the years 2011-12 and 2012-13 and kWH in Millions :—

Sources of Power	Generated (sent out from bus bars)	Purchase		Total	
		2011-12	2012-13	2011-12	2012-13
Energy Purchase from State Electricity Board in million Unit					
(a) General Service					
(i) Tamil Nadu	98.797	96.333			
(ii) Andhra Pradesh ..	0.631	0.638			
(iii) Karnataka	1.548	1.658	118.684	115.984	
(iv) Kerala	17.708	17.355			
(b) Traction Services					
(i) Tamil Nadu	706.571	710.632			
(ii) Andhra Pradesh ..	77.38	78.450			
(iii) Karnataka			936.557	962.751	
(iv) Kerala	152.603	173.668			
Total				1055.24	1078.73

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	2011-12	2012-13
(i) Energy Purchase	In Million kWH	1055.24	1078.73
(ii) Total Cost	(Rs. in Crores)	521.219	603.482
(iii) Average rate per kWH		4.93	5.59

3. Analysis of total electrical energy consumed for various services in terms of percentage of the total energy purchase 2012-13

	Percentage
a. Major workshops (14.366 Million Units)	1.33
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 (11.084 mu)	1.03
(ii) Service Buildings (49.254 mu)	4.57
(iii) Yard lighting (2.636 mu)	0.24
(iv) Hospitals (5.896 mu)	0.54
c. Staff quarters and staff welfare buildings, (32.778 mu).	3.04
Traction Services (962.751 Million Units)	89.25

4. Generating and Purchasing Stations as on 31st March 2013.

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 2012	219	17,268	81	3170
As on 31st March 2013	254	19,286	82	3170

5. Electrical Traction

1. Total Route km. Electrified
2. Total Track km. Electrified

6. A. C. Electric Loco

- (i) Total No. of Engine on line
- (ii) No. of Engine in use (average day).
- a. Goods Service ..
- b. Passenger Service ..
- c. Shunting ..
- d. Departmental ..
- e. Banking ..
- f. Spare ..
- Total average p
- (iii) Engine km/day/Engine in (all services).
- (iv) Engine km/Day/Engine in (all services).I
- (v) Total No. of failure
- a. Passenger Service ..
- b. Goods Service ..
- (vi) Engine km/Engine failure
- a. Passenger Service ..
- b. Goods Service ..
- (vii) Total km (Passenger and

7. Suburban Electric M

Holding as on 31st March 2012	
a. In terms of 4 Units (4 Co	
b. In terms of Coaches (Motor trailer Coaches).	
c. Break up of Coaches	
Motor Coaches ICF Co	238
(i) Kms. run in terms of sin	
(ii) Total No. of Failure	
(iii) Kms/Motor Coaches fai	

8. Electrical Genera

- (i) Generating, Converting Plants. Transformer capacity in
- (ii) Total connected loads of insi power from outside sources
- (iii) Electrification of stations in
- (iv) Total No. of Motors (other, if service in major workshops, electrical repair shops, F
- (v) Electrical driven pump
- (vi) Electrified Quarters
- Lights
- Fans
- Plugs

NG

ution (2012-13)

Upto 31st March 2012	Upto 31st March 2013
BG	BG
1,898	2,056
4427	4,667

as

		Broad Gauge (average for the year)	
		2011-12	2012-13
..	..	354.27	376.46
..	..	..	..
..	..	133.05	150.12
..	..	183.28	188.42
..	..	..	..
..	..	..	..
..	..	..	..
..	..	0.73	0.26
..	..	317.06	388.80
..	..	593	585
..	..	617	622
..	..	..	..
..	..	35	28
..	..	5	8
..	..	1265030	1597867
..	..	4846233	3432450
..	..	68507211	72199879

Unit Stock—Broad Gauge

	2011-12	2012-13
U-1 type)	239	245
as and	480	494
iches	..	..
	32797004	33342104
	3	3
	10932335	11114035

ices Particulars

	2011-12	2012-13
forming Nos.	319	335
kVA	139063	151563
chasing usands)	173717	176686
ock huts	728	728
otors in		
ivisional ss, etc.,)		
Nos.	4871	4895
Capacity	38347	38504
Nos.	1687	1702
Capacity	10762	10880
Nos.	27718	27776
	160155	160742
	54476	54931
	80851	85407

		2011-12	2012-13
(vii) Service Buildings			
Lights		123414	114933
Fans		40835	32489
Plugs		37158	28117
(viii) Ac plants and refrigeration's equipments			
AC Plants	Nos.	2268	2270
Capacity	Tons	5189	5192
Refrigerators	Nos.	943	948
Capacity	Ltrs.	156975	158475
(ix) Water coolers	Nos.	698	703
Capacity	Ltrs.	85451	92010
(x) Air Compressors	Nos.	88	88
Capacity of Motors in	HP	2391	2391
(xi) Welding sets	Nos.	780	821
Capacity in	Amps	120705	123280
(xii) Battery Chargers	Nos.	960	1015
Capacity in	Amps	78366	76618
(xiii) Other installations, Miscellaneous viz., Geysers, Water distilling plants etc. Nos.		642	632
(xiv) Flood light towers in yards—			
No. of Towers		342	386
No. of Projectors		1345	1508
Wattage	kW	2970	3850
(xv) Length of Transmission line (Other than Traction) km.			
HT OH		50.3	54
UG		188.50	190
LT OH		1111.07	1150
UG		879.06	931
(xvi) Power line Crossings	Nos.	2702	2769

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 2013 are furnished as follows.

Self Generation AC Coaches Population—

Sl. No.	Type of coaches	Population
1	FAC	12
2	FACCW	56
3	ACCW	229
4	CZAC	35
5	ACCN	445
6	SWGNAC	3
7	SWGACCN.. ..	5
Total		785

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

1	FCZACEN	2
2	CZACEN	12
3	WLRRM	17
4	CZ ACJ	9
5	ACCNJ	Nil
6	CZACH	4
7	WLRRMDAC	6
8	LCZAC	9
9	LFCZAC	2
10	SWGFAC	3
Total		64

Augmentation (Addition/deletion) in the rank link in the composition of Express trains during the period 2012-2013

Sl. No.	Train No.	From	To	Date of Introduction	Type of AC/TL coaches	Frequency	Total No. of coaches
1	22601/01	MAS	SNSI	09-5-12	ACCN-1 GSCN-1	Weekly	20
2	16612/11	CBE	TN	11-6-12	GSCN-1	Daily	7
3	12671/72	MAS	MTP	30-6-12	GSCN-1 (GS-1)	Daily	24
4	12615/16	MAS	NDLS	30-6-12	GSCN-1	Daily	24
5	12661/62	MS	SCT	15-6-12	ACCN-1 GSCN-1 (GS-1)	Daily	23
6	16127/28	MS	GUV	20-9-12	GS-3 (GS-3)	Daily	24
7	12617/18	ERS	NZM	12-10-12	ACCN-1	Daily	21
8	16031/32	MAS	JAT	10-10-12	GSCN-1	Tri-Weekly	17
9	16093/94	MAS	LJN	13-10-12	GSCN-1	Bi-Weekly	17
10	16733/34	RMM	Okha	12-10-12	GSCN-1	Weekly	21

Augmentation (Addition/deletion) in the rank link in the composition of Express trains during the period 2012-2013

Sl. No.	Train No.	From	To	Date of Introduction	Type of AC/TL coaches	Frequency	Total No. of coaches
11	22620/19	TEN	BSP	14-10-12	GSCN-1	Weekly	21
12	16723/24	MS	TVC	26-10-12	ACCW ACCN-1 GSCN-1	Daily	22
13	12671/72	MAS	MTP	30-12-12	ACCN-1 (GSCN-1)	Daily	24

Introduction of New Trains for the period from 31-3-2012 to 31-3-2013
Double Decker AC

1. T. No. 22652/22626 Chennai Central-Bangalore City AC Double-Decker (Daily) (Via Jolarpettai)

Train No. 22625 Chennai Central-Bangalore Exp.	↓	Station	↑	T. No. 22626 Bangalore Exp.-Chennai Central Exp.
07.25	D	Chennai Central	A	20.45
10.45/10.47	A/D	Jolarpettai	A/D	17.10/17.12
13.30	A	Bangalore City	D	14.40

Composition : WLRRM-2, LWCZDAC-11=13 PM:BBQ

Date of introduction : 25-04-2013

2. T. No. 22627/22628 Tiruchirappalli-Tirunelveli (Daily) Day-Time Intercity Superfast Exp.

Train No. 22627 Tiruchirappalli-Tirunelveli Exp.	↓	Station	↑	T. No. 22628 Tirunelveli-Tiruchirappalli Exp.
07.15	D	Tiruchirappalli	A	20.00
13.00	A	Tirunelveli	D	14.15

Commercial Stoppages : Dindigul, Madurai, Virudunagar, Satur, Kovilpatti, Vanchi Maniyachchi

Composition : CZAC-1, CZ-6, GS-6, SLR-2=15 PM:TPJ

Date of introduction : 14-07-2012

3. T. No. 22630/22629 Tirunelveli-Dadar (Weekly) Exp. Via. Erode, Coimbatore, KRCL

Train No. 22630 Tirunelveli-Dadar	↓	Station	↑	T. No. 22629 Dadar-Tirunelveli
WED 07.10	D	Tirunelveli	A	04.00 SUN
WED 23.15	(T)	Thokur	(T)	12.00 SAT
12.15/12.20		Roha		23.25/23.30
THU 15.10	A	Dadar	D	20.40 FRI

Commercial Stoppages : Kovilpatti, Virudunagar, Madurai, Dindigul, Karur, Erode, Tiruppur, Coimbatore, Palakkad, Shoranur, Kozhikkode, Kannur, Mangalore Jn., Udipi, Honnavur, Karwar, Madgaon, Thivim, Kandavli, Ratnagiri, Chiplun, Roha, Panvel, Thane.

Composition : SLR/SLRD-2, GS-6, GSCN-6, ACCN-1, ACCW-1=16 PM: TEN Date of introduction : 01-05-2013

Introduction of Incentive Scheme

Progress of introduction of Incentive Scheme :—

Sl. No.	Position as on 31st March 2013	Name of Workshops	
		Perambur	Ponmalai
1	Total strength to be brought under incentive.	974	335
2	Total No. of men put on incentive in any month during the year.	808	277
3	Balance yet to be covered	172	58
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 and when necessity arises this men will be covered.	
		Actual staff strength is lesser than the sanctioned incentive man power. The balance will be booked when the vacancies are filled up.	

Sl. No.	Position as on 31st March 2013	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 LTL shops modifications for passenger amenity are carried out namely IC to FL fitting PABT, Chart light fittings, Laptop charger, extra fans, emergency lights etc. in AC/EW pantry car equipments POH ed.	Nil
6	Average bonus earned per head per day.	₹ 80.83 PS	₹ 101.97 Ps
7	Average increase in productivity during the year 2010-11 the period to the introduction of incentive scheme (In Units).	312 Coach/404 Units # # #	Both AC and Non-AC productivity is not increased. 1500 ICH bogie completed.

##- 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 2013-14	Final Grant 2012-13
Demand No. 5		
Repairs and Maintenance of Motive Power (Electric Loco)	11,921	11,444
Demand No. 6		
Repairs and Maintenance of Carriages and Wagons- EMU, TL and AC	28,595	26,329
Demand No. 7		
Repairs and Maintenance of Plants and Equipments.	16,630	15,494
Demand No. 8		
Operating Expenses-Rolling stock and Equipments.	29,148	29,208
Demand No. 10		
Operating Expenses-Fuel for Electric Traction.	63,269	56,608
Demand No. 11		
Staff Welfare and Amenities - Supply of Energy for Power & lighting (J 580)	2,269	1,983
Total	1,51,832	1,41,066

B. Works Budget:-

(Figs. in Lakhs of ₹)

Demand Number and Description	Budget Grant 2013-14	Final Grant 2012-13
Plan Expenditure works control		
1. Traffic Facilities	14.82	64.06
2. Other Electrical Works	1574.00	916.17
3. Workshops	97.16	69.05
4. Staff Amenities	93.25	84.50
5. Passenger Amenities	1588.88	552.50
6. Machinery and Plants	199.08	302.91
7. Rolling Stock	2454.78	1273.62
8. Other Specified Works	29.20	45.81
9. Road Safety work	12.00	42.30
Total	6063.17	3350.92

10. Railway Electrification

Route/Track kilometre end

(a). Sections commission

Sl. No.	Section	RKM
1	Thiruvananthapuram -Kanniyakumari	86.37
2	Nagercoil-Tirunelveli	71.16
Total		157.53

(b). 25kV Energisation

Sl. No.	Section	RKM
1	Tirunelveli	3.
2	Villupuram-Tiruvannamalai	68.
3	Tiruvannamalai-Vellore Cantonment	80.
4	Madurai-Virudunagar	45.
5	Virudunagar-Vanchimaniachi	83.
Total		280.

(c). 2.2 kV Energisation

Sl. No.	Group No.	Section
1	144	Madurai Yard—Loc. No. 493/45 Loc. No. 493/48 Loc. No. 497/10
2	154	Tirunelveli Yard Loc. No. 27/4 (1) Loc. No. 362/32
3	155	Kaniyambadi-V Loc. No. 138/3 Loc. No. 149/1
4	157	Shoranur— Loc. No. 580/1 Elatur Loc. No.
5	158	Kannur-Payya Loc. No. 755/1 Loc. No. 776/3

Chennai

on in 2012-13

CRS inspection

Sl. No.	Date of Energisation	CRS authorisation No. & Date
194	17-5-2012	R. 12047/3/2012-SR/366-71 dt. 23-5-2012.
193	14-12-2012	R. 12047/4/2012-SR/ dt. 20-12-2012.
197		

Sl. No.	Date of 25 kV charging	Remarks
102	6- 3-13	
325	28- 2-13	
633	31- 3-13	
635	31- 3-13	
364	31- 3-13	
059		

Sl. No.	Group No.	Section	RKM
			3.149
		93/872.70) on Up line 13/904.20) on Dn. line to 97/281.50).	
		76.30) to 362/583.00).	3.183
		1. 138/54.00) to Km. 149/744.20).	11.684
		580/245.50) to Km. 675/057.50).	94.812
		755/449.50) to 765/815.20).	21.799
Total			134.627

IX. सिग्नल व दूर संचार/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 Inter locked stations and those provided with Rudimentary Inter locking on the Railways are as under :—

Gauge As on	Inter-locked stations								Non-Inter-locked		Total No. of Block Stations	
	Std. III		Std. I		IBS/IBH		Rudimentary		Without Rudimentary		Block Stations	
	31st March 2012	31st March 2013	31st March 2012	31st March 2013	31st March 2012	31st March 2013	31st March 2012	31st March 2013	31st March 2012	31st March 2013	31st March 2012	31st March 2013
Broad Gauge	405	412	49	54	13	16	13	0	3	2	470	484
Metre Gauge	0	0	12	1	0	0	0	5	2	2	27	8
Total	405	412	61	55	13	16	13	5	5	4	497	492

Summary

Total No. of Inter-locked stations as on 31-03-2013	412	+	55	+	16	+	5	=	488
Total No. of Non-Interlocked stations as on 31-03-2013	—	—	—	—	—	—	—	=	4
Total No. stations closed for Gauge conversion as on 31-03-2013	—	—	—	—	—	—	—	=	30
Total No. of Block stations :	488	+	4	+	30	—	522		

Note.— 1. This excludes flag & Halt stations but includes Block huts and IBS.

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 2012 Gauge wise along with corresponding figures for 31st March 2013 are given below :—

Serial No.	System of Train Working	Broad Gauge		Metre Gauge		Total	
		31st March 2012	31st March 2013	31st March 2012	31st March 2013	31st March 2012	31st March 2013
1.	Single Line Token Instrument (No. of Block section)	8	8	14	8	22	16
2.	Tokenless Block Instrument (No. of Block section)	382	246	Nil	Nil	382	246
3.	Paper Line Clear Ticket	..	..	..	..	..	..
a.	Single Line	..	..	..	..	..	..
b.	Double Line	..	..	..	..	..	..
4.	Lock and Block Instrument (No. of Block section)	146	151	Nil	Nil	146	151
5.	Automatic Signalling in Kms.	..	..	..	..	..	..
a.	Track Kilometres	1050.73	1059.43	Nil	Nil	1050.73	1059.43
b.	Route Kilometres	439.45	440.28	Nil	Nil	439.45	440.28
6.	Intermediate Block Signalling in Kms.	125.69	157.76	Nil	Nil	125.69	157.76
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	173.42	164.76	Nil	Nil	173.42	164.76
c.	Train Staff Ticket System	—	—	—	—	—	—

(C) Type of Signalling as on current year 31st March 2013—

Serial No.	Route	Total No. of stations on						Total
		Quadruple Line	Double Line	Third Line	Single Line	Twin Single Line		
E-Route	..	..	..	..	2	..	2	2
MG-Route	..	..	..	..	8	..	8	8
Total	..	..	..	..	..	..	..	10

(i) Two Aspect Semaphore Signalling—

E-Route	..	..	..	2	..	2
MG-Route	..	..	..	8	..	8
Total	..	..	..	..	..	10

(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	21
'B' Route	..	15	111	4	41	8	179	179
'C' Route	..	..	5	..	..	..	5	5
'D' Route	..	..	69	..	125	..	194	194
'E' Route	..	..	..	..	74	..	74	74
MG	..	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	473	473
Total (i)+(ii)+(iii)	..	17	200	8	240	8	492	492

D. Signalling Assests Total No. of Stations

	A-Route	B-Route	C-Route	D-Route	E-Route	MG-Route	Total
1. Electronic Inter-locking (SSI)	9	22	..	19	3	..	53
2. Route Relay Inter-locking-RRI	2	33	3	12	15	..	65
3. Panel Inter-locking-PI or P1/RS	10	105	2	159	50	..	326
4. Centralised Operation by SM's Side Control (CO)	..	7	..	7	5	..	19
5. Lever Frame	..	..	..	..	5	8	13
6. Intermediate Block Signalling IBS/IBH	..	12	..	4	..	..	16
7. Gauge conversion	..	..	..	..	..	30	30
Total	21	179	5	201	78	38	522

(E) (i) Classification of stations as on 31st March 2013—

GAUGE	ROUTE	Special Class		'A' Class		'B' Class			'C' Class
		Double Line	Single Line	Double Line	Single Line	Double Line	Single Line	Single Line	Double Line
		BG		BG		BG		MG	
BG	A	21	..	..	..	..	..	..	..
	B	47	..	..	..	70	46	..	12
	C	5	..	..	..	..	..	..	..
	D	6	1	..	..	59	131	..	4
	E	..	1	..	..	..	77	..	..
	MG	..	..	..	..	..	..	..	..
	Total	79	2	0	0	129	254	0	16
MG	Q	..	..	..	..	..	..	..	..
	R2	..	..	..	..	..	..	..	..
	R3	..	..	..	..	..	..	..	..
	S1	..	..	..	..	..	..	..	..
	S2	..	..	..	..	..	..	..	..
	S3	..	..	..	..	..	..	8	..
	Total	..	..	..	..	..	..	8	..

(E) (ii) Summary of Classification of stations as on 31st March 2013—

BG	79	2	..	..	129	254	0	16
MG	..	..	..	..	..	..	8	..
Total Number of Stations								

Total Number of Block working stations .. 492

Total Number of Stations closed for Gauge Conversion .. 30

Total .. 522

(G) Level Crossing Gates—With Lifting Barriers.—

(Total No. of Gates as on 31st March 2013)

Sl. No.	Route/Safety Devices provided	Special Class		'A' Class		'B 1' Class		'B 2' Class	
		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	75	114	71	73	158	145	2	3
b	Telephone	83	123	89	103	231	217	7	21

(Total No. of Manned Gates as on 31st March 2013).—Rc

Sl. No.	Route/Safety Devices provided	Special Class		'A' Class		'B 1' Class		'B 2' Class	
		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	3	1	1	9	8	0	0
	(b) Telephone ..	2	3	1	2	13	13	0	0
2.	'B' Route—								
	(a) Lifting Barriers	23	36	27	10	43	42	0	0
	(b) Telephone ..	24	36	35	16	63	41	5	17
3.	'C' Route—								
	(a) Lifting Barriers	4	0	0	0	0	0	0	0
	(b) Telephone ..	5	0	0	0	0	0	0	0
4.	'D' Route—								
	(a) Lifting Barriers	38	65	33	44	68	62	2	3
	(b) Telephone ..	42	70	41	57	85	88	2	4
5.	'E' Route—								
	(a) Lifting Barriers	8	9	10	16	30	30	0	0
	(b) Telephone ..	10	12	11	18	47	53	0	0
6.	MG Route—								
	(a) Lifting Barriers	0	1	0	2	8	3	0	0
	(b) Telephone ..	0	2	1	10	23	22	0	0

le e	'D Class		Total/
	Double Line	Single Line	
	BG		
	..	..	21
	1	..	179
	..	..	5
	..	..	201
	..	..	78
	..	..	0
	1	0	484
	..	..	0
	..	..	0
	..	..	0
	..	..	0
	..	..	8
	..	..	8
	1	0	484
	..	..	8
			492

C' Class		Total	
S.L.	O.S.L.	W.S.L.	O.S.L.
91	476	497	811
81	688	691	1152

C' Class		Total	
S.L.	O.S.L.	W.S.L.	O.S.L.

3	16	15	28
3	19	22	37

9	66	142	154
7	94	204	204

0	0	4	0
0	0	5	0

34	264	225	438
12	323	282	542

34	122	102	177
55	178	133	261

1	8	9	14
21	74	45	108

(ii) Non-Inter locked Gates—

Route	Total No. as on 31st March 2013				
	Special Class	'A' Class	'B1' Class	'B2' Class	'C' Class
Trunk Route and Important Main Line :					
1. 'A' & 'B' Route on B. G.	1	5	..	1	83
2. 'Q' & 'R' Route on M. G.	..	..	..	..	..
Others ..	10	17	..	17	498
Total	11	22	..	18	581

(iii) Unmanned Gates.—As on 31st March 2013

Sl. No.	Section	No. of Unmanned Gates
(1)	Single line	855
(2)	Double line	24
Total		884

H. Tele-communication Narrative Report—2012-13

(I) Exchanges

Sl. No.	Exchanges	Auto Exchanges	Inter-com.	Remarks
(1)	Total No. of Exchanges	75	49	..
(2)	Telephone Lines (in service)	14,345	2,665	..

(II) Traffic Control Including Area Control

Section Control
Details of Control Alignment/Cable

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

a) RE Quad Telecom Cables

1.	Chennai	Villivakkam - Annanagar	3.09
2.	Salem	Salem - Mettur Dam	40.25
	Total		43.34

b) OFC + RE Quad Cable

1	Chennai	Chennai Beach - Thirumayilai	8.66
2	Chennai	Chennai Beach - Basin Bridge	4.66
3	Salem	Salem - Erode Jn.	59.25
4	Salem	Erode - Coimbatore	100.54
5	Salem	Irugur - Podanur - Coimbatore	16.77
6	Palakkad	Podanur - Palakkad	48.26
7	Palakkad	Palakkad - Shoranur	44.49
	Total		282.63

c). OFC + 4 QUAD

1.	Chennai	Chennai - Gudur	136.04
2.	Chennai	Chennai Beach - Padalam	72.30
3.	Chennai	Thirumayilai - Tiruvanmiyur - Velachery	10.69
4.	Salem	Erode - Karur - Tiruchchirappalli Fort	137.16
5.	Palakkad	Shoranur - Kozhikode - Mangalore	307.07
6.	Palakkad	Mangalore - Padil	2.00
7.	Tiruvananthapuram	Shoranur - Thrissur - Ernakulam	106.85
8.	Tiruvananthapuram	Ernakulam-Kottayam-Kayankulam.	114.66
9.	Tiruvananthapuram	Ernakulam-Allappuzha-Kayankulam.	100.34
10.	Tiruvananthapuram	Ernakulam - Cochin Harbour Terminus.	7.75
11.	Tiruvananthapuram	Kayankulam - Kollam	40.84
12.	Tiruvananthapuram	Kollam - Tiruvananthapuram Central.	64.30
13.	Tiruchchirappalli	Villupuram - Tiruchchirappalli	177.53
14.	Tiruchchirappalli	Thanjavur - Thiruvarur	54.37
15.	Tiruchchirappalli	Thiruvarur - Tiruchchirappalli	49.80
16.	Tiruchchirappalli	Tiruchchirappalli- Tiruchchirappalli Fort.	3.94
17.	Madurai	Tiruchchirappalli - Madurai	157.39
	Total		1543.03

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

d) OFC + 6 QUAD

1.	Chennai	Chennai-Thirunindravur-Thiruvallur	41.65
2.	Chennai	Thiruvallur - Arakkonam	26.83
3.	Chennai	Arakkonam-Jolarpettai Jn.	144.59
4.	Chennai	Arakkonam-Renigunta	66.30
5.	Chennai	Arakkonam - Chengalpattu	62.96
6.	Chennai	Chengalpattu - Villupuram	90.46
7.	Salem	Salem - Jolarpettai	120.04
8.	Salem	Coimbatore - Mettupalaiyam	35.51
9.	Salem	Mettupalaiyam - Udagamandalam	45.88
10.	Salem	Karur-Dindigul	73.97
11.	Salem	Podanur - Kinathukadavu	24.81
12.	Palakkad	Shoranur-Nilambur	65.80
13.	Palakkad	Mangalore - Padil	5.70
14.	Palakkad	Pollachi-Kinathukadavu	21.16
15.	Tiruvananthapuram	Thrissur-Guruvayur	22.63
16.	Tiruchchirappalli	Villupuram-Puducherry	37.30
17.	Tiruchchirappalli	Villupuram - Vellore	150.23
18.	Tiruchchirappalli	Katpadi - Vellore Cantonment	9.90
19.	Tiruchchirappalli	Mayiladuthurai - Thiruvarur	37.91
20.	Tiruchchirappalli	Thiruvarur-Nagore	30.37
21.	Tiruchchirappalli	Nagore - Karaikkal	12.00
22.	Tiruchchirappalli	Nidamangalam - Mannargudi	13.41
23.	Tiruchchirappalli	Nagapattinam - Velankanni	10.32
24.	Madurai	Madurai-Manamadurai-Rameswaram	161.49
25.	Madurai	Madurai-Tuticorin-Tirunelveli	188.22
26.	Madurai	Tirunelveli-Tenkasi	72.02
27.	Madurai	Tenkasi - Shengottai	7.83
28.	Madurai	Dindigul-Palani	58.30
29.	Madurai	Palani - Pollachi	62.90
30.	Madurai	Punalur - Kollam	44.98
	Total		1745.47

e). Railway 4 QUAD alone

1.	Tiruchchirappalli	Tiruvarur - Karaikkudi	148.99
	Total		148.99

f). Railway 6 QUAD alone

1.	Chennai	Pattabiram East Cabin	2.03
2.	Salem	Vriddhachalam - Salem	138.08
3.	Palakkad	Padil - Panambur	16.71
4.	Tiruchchirappalli	Villupuram - Cuddalore Port - Mayiladuturai	121.78
5.	Tiruchchirappalli	Mayiladuturai-Kumbakonam	31.10
6.	Tiruchchirappalli	Kumbakonam - Thanjavur	39.35
7.	Tiruchchirappalli	Vriddhachalam-Cuddalore Port	57.30
8.	Madurai	Tiruchchirappalli - Karaikkudi	89.35
9.	Madurai	Karaikkudi-Manamadurai	61.16
10.	Madurai	Virudunagar-Tenkasi	122.16
11.	Madurai	Tirunelveli-Tiruchendur	61.21
	Total		740.23

CONTROL SECTIONS

Division	Section
Chennai	Chennai - Thiruvallur
	Chennai - Thiruvallur - Katpadi
	Chennai - Katpadi - Jolarpettai
	Chennai - Arakkonam - Renigunta
	Chennai - Gudur
	Chennai Beach - Villupuram,
	Chengalpattu - Arakkonam
Salem	Chennai Beach - Tambaram,
	Chennai Beach - Velachery
	Salem - Jolarpettai, Salem - Metturdam,
Palakkad	Salem - Vriddachalam
	Salem - Erode - Coimbatore - Podanur -
	Kinathukadavu, Coimbatore -
Thiruvananthapuram	Udhagamandalam
	Salem - Karur - Tiruchchirappalli,
	Karur - Dindigul
Tiruchchirappalli	Palakkad - Shoranur, Palakkad - Pollachi -
	Kinathukadavu - Palakkad - Podanur
	(Palakkad) - Shoranur - Cannanore,
Madurai	Shoranur - Nilambur
	(Palakkad) - Cannanore - Panambur
	Thiruvananthapuram - Kollam - Ernakulam
Thiruvananthapuram	Kollam - Ernakulam - Shoranur, Ernakulam -
	Alleppey - Kayankulam - Kochi Harbour Terminus
	Kollam - Thiruvananthapuram - Kanyakumari -
Tiruchchirappalli	Nagercoil - Tirunelveli
	(Tiruchchirappalli) - Villupuram - Katpadi,
	Villupuram - Pudukcherry, Cuddalore - Villupuram,
Tiruchchirappalli	Vriddachalam - Cuddalore
	Tiruchchirappalli - Vriddachalam - Villupuram,
	Tiruchchirappalli - Thanjavur - Kumbakonam -
Tiruchchirappalli	Mayiladuthurai - Cuddalore
	Tiruchchirappalli - Thanjavur - Thiruvarur -
	Nagore, Thiruvarur - Mayiladuthurai, Thiruvarur -
Tiruchchirappalli	Thiruthurai - Karaikudi
	Madurai - Dindigul - Tiruchchirappalli - Dindigul -
	Pollachi
Madurai	Madurai - Virudunagar - Vanchi Maniyachi,
	Tuticorin - Vanchi Maniyachi - Tirunelveli,
	(Madurai) - Manamadurai - Rameswaram, Mana-
Madurai	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

& UTS

Division	Locations	UTS	Locations
Chennai	13	128	
Salem	10	74	
Palakkad	19	59	
Thiruvananthapuram	17	73	
Tiruchchirappalli	17	100	
Madurai	18	109	
Total		14	543

SENGER AMENITIES

S.No.	Items	Numbers
1.	PC based PA system	95
2.	Clocks [QUARTZ]	All Stations provided
3.	Coach Guidance System	63
4.	Train Display Board	114
5.	Conventional PA System	289
6.	Touch screens	166
7.	POET	73

IV - S

V

1. FOIS
2. COIS
3. CMS
4. V - SAT Connect

VI - VOICE RECORDER

Voice Recorders are
Traction Power Control in

VII - CUG PHONES

7674 CUG SIM cards
in all Divisions, Headquarters

VIII - VIDEO CONFERENCING

1. Video conferencing are
connected through OFC E
2. CRB with GMs Video
MPLS Network between C

PERFORM

S. No.	Name of T
a.	Average Efficiency of Circuit Operating
b.	Average Efficiency of Circuit Operating
c.	Average Efficiency of Circuit Operating
d.	Average Efficiency of Circuit Operating
e.	Average Efficiency of Circuit Operating

TE PHONES-9

CMS & COIS

141 Locations
53 Locations
24 Locations
24 Locations

ROL OFFICE

on all the 23 Section controls and 8
ons.

AIRTEL are provided for Officers & Staff
e, project and Construction wing.

nts in Headquarters and all divisions is
media with ring protection.

ncing system is connected through OFC
and New Delhi.

IF TELECOMM CIRCUITS

2011-13 Performance in %
1. Circuits on Railway OFC
98.8
99.75
2. Circuits on Railway Quad Cable
99.24
99.67
3. Circuits on Railway RE Cable
99.00
99.71
4. Circuits on Railway OH Link
99.94
99.95
5. Circuits (BSNL OH Link)
93.29
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 2013	Remarks
1.	Coimbatore North - Mettupalayam, Mettupalayam - Udhagamangalam - (OFC & 6 Quad).	2007 -08	456.13 DF3	99%	Work completed.
2.	Salem Division: Salem - Mettur dam - Provision of OFC (40 Kms) - (5 stations) & 6 Quad Cable between Omalur and Mettur Dam (33 kms).	2008 -09	318.47 DRF	95%	Work completed.
3.	Vriddhachalam - Salem (OFC and STM-1 with MUX).	2010-11	402.00 DF 3	---	Work is in progress.
4.	Vriddhachalam - Cuddalore Jn. (OFC and STM-1 with MUX)	2011-12	222.34 DF3	55%	Work is in progress.
5.	Salem - Coimbatore - Provision of 6 Quad Cable in lieu of Re Cable 153 Kms.	2012-13	947.19 DRF	95%	Work completed.
6.	Villupuram Jn. - Thanjavur Jn. - OFC work (192 Kms).	2012-13	770.87 DF3	---	Work is in progress.
OTHER SPECIFIED WORKS					
1.	Southern Railway - Integrated Security System at TVC, ERS, MDU, CBE, TPJ, CLT & MAQ. (7 stations).	2010-11	3050.09 CAP	55%	Work is in progress.
2.	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 2013	Remarks
1.	Chennai Division - Public address system in suburban trains (66 rakes).	2009-10 Supple- mentary	752.00 DF(1)	---	Detailed Estimate has been sanctioned by CEE/MAS and tender opened.
2.	Chennai Division - Replacement of aged and worn out Route Relay Inter-locking by Route Relay Inter-locking at Chennai Suburban Terminal.	2010-11	154.40 DRF	100%	Work completed and commissioned.
3.	Basin Bridge - Arakkonam section (Slow line) - Provision of Train Protection Working system (TPWS).	2010-11 (Suppl.)	3081.42 DF(4)	---	Tender opened and TCM is under progress.
4.	Southern Railway - Train management System on Chennai Beach-Sulurpetta, Chennai Beach-Velachery, Chennai beach- Chengalpeta and Chennai Central-Arakkonam sections.	2010-11 (Suppl.)	3573.36 DF(3)	---	Detailed Estimate is sanctioned and Tender opened.

Sl. No.	Description of Work	Year of Programme	Estimated cost Rs. (in lakhs)	Physical progress upto 31st March 2013	Remarks
5.	Salem Division—VRI - SA section - Provision of Optic Fibre Cables and STM-I with MUX.	2010-11	478.61 DF(3)	20%	ed Estimate is sanctioned and r schedules are under final and will be floated shortly.
6.	Palakkad Division—Mankara, Ottapalam, Parli & Lakkiti - Replacement of Panel inter-locking arrangement by Route setting type - B route.	2010-11	1167.00 DRF	—	ed Estimate sanctioned by /P&P. Indents for vital lials placed.
7.	Tiruvananthapuram Division— Replacement of signalling assets by Panel Inter-locking at Angamali for Kaladi.	2010-11	182.00 DRF	—	ed Estimate i s sanctioned. will be executed by Dy.CSTE/ RS along with New Line work en Angamali and Sabrimala.
8.	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	20%	completed for 39 Kms and ce work in progress.
9.	Arakkonam—Jolarpettai - Train Protection & Warning system - 150 RKM.	2011-12 (Suppl.)	11232.00 DF(4)	—	illed Estimate is under ation.
10.	Chennai Beach—Tambaram - Chengalpattu-Train Protection & Warning system - 150 RKM.	2011-12 (Suppl.)	4263.00 DF(4)	—	illed estimate has been ioned by IRPMU
11.	Salem Division—Replacement of Signalling gears by Route Setting type Type Panel Inter-locking (4 stations) (D-Route) in KRR-TPJ section. At Mahadanapuram, Perugamani, Elamannur and Muttarasanallur stations.	2011-12	873.00 DRF	—	illed Estimate is sanctioned and er schedules are under sation and will be floated ly.
12.	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)	—	illed Estimate is sanctioned on 2.12. LOA issued on 23.3.13.
13.	Tiruvananthapuram Division— Replacement of SM's Slide Operation of operation of Signals & points by Panel Inter-locking at Punkunnam station.	2011-12	98.94 DRF	—	illed Estimate is sanctioned and er schedules are under tly. sation and will be floated
14.	Tiruchchirappalli Division— Replacement of Panel inter-locking at Tiruchchirappalli Fort station.	2011-12	201.20 DRF	—	illed Estimate i s sanctioned on 4.12.
15.	Lalapet - Replacement of Multi Aspect Upper Quadrant Signalling by Panel Inter-locking.	2012-13	273.06 DRF	—	illed Estimate is sanctioned and der opened.
16.	Salem Division - Replacement of Universal Axle Counter with Single Section Digital Axle Counters (5 Intermediate Block Sections).	2012-13	324.31 DRF	—	illed Estimate is sanctioned and der under preparation.
17.	Mayanoor - Replacement of Multi Aspect Upper Quadrant Signalling by Panel Inter-locking.	2012-13	262.22 DF(3)	—	illed Estimate is sanctioned on 04.12.
18.	Walaja Road - Jolarpettai & Chennai Beach—Velacherry— Remote Terminal Unit with Network arrangement.	2012-13	500.00 DF(3)	—	illed Estimate is sanctioned and der schedules under preparation.
19.	Chennai Central - Gudur - Dual Detection arrangement with Axle Counter at Bridges.	2012-13	375.30 DF(4)	—	illed Estimate is sanctioned on 09.12. LOA has been issued.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of ₹	Physical progress upto 31st March 2012	Remarks
20	Chennai Division – Replacement of Point Machines	2012-13	400.00 DRF	—	Detailed Estimate prepared and sent to accounts for vetting.
21	Villupuram – Thanjavur – Optic Fibre Cable (192 Kms.)	2012-13	770.86 DRF	—	Detailed Estimate is sanctioned and Tender opened. TCM is under progress.
22	Salem – Coimbatore – 6 Quad Cable in lieu of RE Cable	2012-13	947.18 DRF	—	Detailed Estimate is sanctioned and Tender opened. TCM is under progress.
23	Chennai Division Provision of Invertors at Stations for signals to avoid blanking of Signal Phase-I.	2012-13	200.00 DF(4)	—	Preparation of detailed estimate is pending for want of clarification from Division.
24	Chennai Division Dual Detection track circuit for improvement of track circuit with multi section digital axle counters at Royapuram, Pattabiram East and Veysarpadi.	2012-13	200.00 DF(4)	—	Preparation of detailed estimate is pending for want of clarification from Division.

Sl. No.	Description of Items	Added during 2011-12	Total as on 31-3-2012	Added during 2012-13	Total as on 31-3-2013	Sl. No.	Description of Items	Added during 2011-12	Total as on 31-3-2012	Added during 2012-13	Total as on 31-3-2013	
1.	Token Block Working (No. of Block Sections)	-8	22	-6	16	(ii) Stations with Semaphore Signals	—	—	—	—	—	
2.	Tokenless Block Working (No. of Block Sections)	-5	236	10	246	(a) Standard-I Interlocking	—	—	—	—	—	
3.	Lock & Block Working (No. of Block Sections)	7	146	5	151	(b) Standard-II Interlocking	—	—	—	—	—	
4.	Intermediate Block Sections (No. of Block Sections)	2	11	5	16	(c) Standard-III Interlocking	—	—	—	—	—	
5.	Block Proving by Axle-counters (No. of Block Sections)	141	305	52	357	(B) Panel Interlocking (CENTRAL PANELS) (No. of stations).	21	354	-8	346	—	
6.	Colour Light Signalling (No. of Stations)	—	—	—	—	i Stations with MACL Signals	24	347	-8	339	—	
(i) Multi Aspect	20	459	14	473	(a) Standard-I Interlocking	7	22	0	22	—	—	
(ii) 2-Aspect	—	—	—	—	(b) Standard-II Interlocking	—	—	—	—	—	—	
7.	Semaphore Signalling (No. of stations)	—	—	—	(c) Standard-III Interlocking	17	325	-8	317	—	—	
(i) MAUQ	-12	9	0	9	(ii) Stations with Semaphore Signals	-3	7	0	7	—	—	
(ii) MLQ	—	—	0	—	(a) Standard-I Interlocking	-3	2	0	2	—	—	
(iii) LQ	-4	16	-6	10	(b) Standard-II Interlocking	—	—	—	—	—	—	
8.	Automatic Block Working	—	—	—	(c) Standard-III Interlocking	0	5	0	5	—	—	
(i) Track kms.	0.00	1050.73	8.70	1059.43	14.	Lever Frames (No. of stations)	-6	19	-6	13	—	
(ii) Route Kms.	0.00	441.11	-0.83	440.28	i With MACL Signals	0	1	0	1	—	—	
9.	Automatic Permissive Block Working	—	—	—	(a) Standard-I Interlocking	0	1	0	1	—	—	
(i) Track kms.	-58.28	0.00	0.00	0.00	(b) Standard-II Interlocking	—	—	—	—	—	—	
(ii) Route Kms.	-29.14	0.00	0.00	0.000	(c) Standard-III Interlocking	—	—	—	—	—	—	
10.	Safety Devices at Level Crossings	—	—	—	(ii) Stations with Semaphore Signals (DW) (MAUQ) (No. of stns.)	-2	2	0	2	—	—	
(i) Inter-locking at Level Crossings (Nos.)	40	1193	47	1240	(a) Standard-I Interlocking	-2	2	0	2	—	—	
(ii) Lifting Barriers at Level-Crossings (Nos.)	40	1131	177	1308	(b) Standard-II Interlocking	—	—	—	—	—	—	
(iii) Non-Interlocked Level-Crossings	6	349	23	372	(c) Standard-III Interlocking	—	—	—	—	—	—	
(iv) Telephone at Level Crossings (Nos.)	35	1788	55	1843	(iii) Stations with Semaphore Signals (SW) (LQ) (No. of stations)	-4	16	-6	10	—	—	
(v) Train Actuated Warning System (Nos.)	0	26	0	26	(a) Standard-I Interlocking	-4	15	-6	9	—	—	
(a) At Unmanned Gates (Nos.)	0	20	0	20	(b) Standard-II Interlocking	—	—	—	—	—	—	
(b) At Manned Gates (Nos.)	0	6	0	6	(c) Standard-III Interlocking	0	1	0	1	—	—	
11.	Total No. of Interlocked Stations (Nos.)	—	484	8	492	15.	Solid State interlocking (No. of stations)	10	45	8	53	
(i) Non-Interlocked Stations	1	5	-1	4	16	(i) Auxiliary Warning System (AWS or TPWS) (Route Kms)	0	0	0	0	—	—
(ii) Modified Non-Interlocked Stations	-4	9	-4	5	(ii) Train Protection & Warning System (Route Kms)	0	50	0	50	—	—	
(iii) Block Hut with Station Master/IBS	4	13	3	16	(iii) Anti Collision Device (Route Kms)	0	0	0	0	—	—	
(iv) Interlocked Stations	3	457	10	467	17.	Second Distant (Nos.)	—	—	—	—	—	
(a) Standard-I	-6	52	3	55	(i) Stations	0	0	0	0	—	—	
(b) Standard-II	—	—	—	—	(ii) LC Gates	0	0	0	0	—	—	
(c) Standard-III	9	405	7	412	(iii) Intermediate Block Signals	0	0	0	0	—	—	
12.	Route Relay Interlocking (No. of station)	0	55	13	68	18.	Track Circuiting (No. of stations)	—	—	—	—	
(i) Stations with MACL Signals	0	55	13	68	(i) FM to FM	7	471	13	484	—	—	
(a) Standard-I Interlocking	-1	24	-2	22	(ii) FM to BSL (St)	7	471	13	484	—	—	
(b) Standard-II Interlocking	—	—	—	—	(iii) FM to BSL (T/O)	7	471	13	484	—	—	
(c) Standard-III Interlocking	1	31	15	46	(iv) FM to Home (St)	7	471	13	484	—	—	
13.	(A) Panel Interlocking (END PANES) (No. of stations).	—	—	—	(v) FM to Home (T/O)	3	216	9	225	—	—	
(i) Stations with MACL Signals	—	—	—	—	(vi) Loop line	7	471	13	484	—	—	
(a) Standard-I Interlocking	—	—	—	—	19.	No. of Semaphore Signals Lit with Solar Power (Nos.)	-98	117	0	117	—	
(b) Standard-II Interlocking	—	—	—	—								
(c) Standard-III Interlocking	—	—	—	—								

Sl. No.	Description of Items	Added during 2011-12	Total as on 31-3-2012	Added during 2012-13	Total as on 31-3-2013
20.	AFTC (Nos.)	0	1307	36	1343
21.	HFTC (Nos.)	0	0	0	0
22.	DIGITAL AXLE-COUNTERS (Nos.)				
	(i) Single Entry	—	—	—	—
	(a) Stations	169	251	42	293
	(b) Equipments	425	610	104	714
	(ii) Multy Entry	—	—	—	—
	(a) Stations	—	—	—	—
	(b) Equipments	—	—	—	—
23.	ANALOG AXLE-COUNTERS (Nos.)				
	(i) Single Entry	—	—	—	—
	(a) Stations	-8	23	-4	19
	(b) Equipments	-18	54	-16	38
	(ii) Multy Entry	—	—	—	—
	(a) Stations	-2	2	-2	0
	(b) Equipments	-6	4	-4	0
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	-9	18	-18	0
	(i) With Conventional Power	—	—	—	—
	(ii) With Solar Power	-9	18	-18	0
	(iii) With Primary Batteries	—	—	—	—
	(b) No. of Signals	-8	165	-165	0
	(i) With Conventional Power (Nos.)	0	0	0	0
	(ii) With Solar Power (Nos.)	-8	165	-165	0
	(iii) With Primary Batteries	—	—	—	—
27.	LED Lit MACL Signals (Nos.)				
	(a) Stations	212	426	15	441
	(b) Signals	4,369	7,015	180	7,195
	(c) Aspects	9,587	20,783	510	21,293
28.	Triple pole Signal lamps (Nos.)				
	(a) Stations	-78	46	-41	5
	(b) Signals	-1031	302	-262	40
	(c) Aspects	-3030	716	-624	92
29.	Calling-On Signals (No. of Stns.)	19	401	13	414
30.	Data-loggers (Total)				
	(i) Stand Alone (Nos.)	-35	4	4	8
	(ii) Networking Mode (section Nos.)	85	444	14	458
31.	Integrated Power Supply (No. of stns.)				
	(i) SCR Based (No. of stns.)	0	0	0	0
	(ii) SMPS Based (No. of stns.)	10	133	13	146
32.	Point Machines (Nos.)				
	(i) IRS Type	217	5,317	178	5,495
	(ii) Siemens Type	0	0	0	0
	(iii) Clamp Type	0	36	0	36
	(iv) Other	0	21	-7	14
33.	Colour Light Signalling (Nos.)				
	(i) Multi aspect	200	3,770	1,853	5,623
	(ii) Two aspect	355	3,082	820	3,902
34.	Semaphore Signalling (Nos.)				
	(i) MAUQ	150	91	0	91
	(ii) MLQ	0	0	0	0
	(iii) LQ	0	56	-12	44
35.	Batteries (Nos.)				
	(a) (i) 2V Cells 40 AH	1,556	5,064	-2327	3,457
	(ii) 2V Cells 80 AH	6,069	32,773	4,390	37,163
	(iii) 2V Cells 120 AH	36	12,467	-659	11,808
	(iv) 2V Cells 200 AH	7,958	17,921	2,061	19,982
	(v) 2V Cells 300 AH	-3,673	2,115	-345	1,770
	(vi) 2 Cells 400-AH	-2,274	6,824	-504	6,320
	(vii) 2V Cells 500 AH	—	—	—	—
	(b) Battery set 12/24V	-65	0	—	0
36.	ZISTUS	-6,69,187	31,35,638	5,44,818	36,80,456
37.	Total Route KMS on Railway	-108.12	4,994	85	5,079
38.	Total Track KMS on Railway	-75.17	6,714	121	6,835
39.	Total Interlocked Station (R)	—	173	20	193
	(a) Standard interlocking (R)	—	17	2	19
	(b) Standard interlocking (R)	—	156	18	174
	(c) Standard interlocking (R)	—	—	—	—
	(d) Standard interlocking (R)	—	—	—	—

5. Signal Equipment F

Sl. No. Signal Failure

I. On Signal Account :—

- (a) In colour light Signalling &
(b) In semaphore signalling area.

Sub-Total

II. On Account of others

- Operating Department
- Mechanical Department
- Engineering Department
- Electrical Department
- D. O. T.
- Miscellaneous
- Miscellaneous
- S & T Construction

Sub-Total

Total (I + II)

The percentage is worked out based on the grand total number of signal and interlocking account and other account.

6. S & T Workshop-Podanur

Introduction:

Signal and Telecommunication Workshop/Podanur was set up on 09/04/1958 to serve as a 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 production of Signal reversers, Single Line Electric Signalling Equipments like Mechanical Signalling Equipments like Signal lamps etc. were taken up for production. Since then this workshop has grown in to a major manufacturing unit for Signal supplies the same to the entire Southern Railway.

The workshop is managed by Chief Workshop Manager (CWM) with a team of Officers comprising 06 S&T Officers, 02 Stores Officer and 01 Personnel Officer.

Development of Signalling equipments

Gradually the production of modern equipments like Q Type Relays, Axle Counters, Electronic timing devices 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 Route Indicator.

Production items

Presently the workshop manufactures various types of sophisticated Signalling Equipments for meeting the demand of Indian Railways in various projects, and replacement works. The combined annual production of S&T Workshop/Podanur and Perambur Unit is in the order of 7.98 Cr. for the year 2012-2013.

s.

Number of Failures

Previous Year 2011-12 Current Year 2012-13

Vos. % Nos. %
850 55.40 3,999 57.86
41 0.59 32 0.46

891 55.99 4,031 58.32

521 7.50 438 6.34

956 13.76 12 0.17

9 0.13 820 11.86

132 1.90 137 1.98

4 0.06 1 0.01

150 2.16 155 2.24

815 11.73 870 12.59

471 6.78 448 6.48

1,058 44.01 2,881 41.68

1,949 6.912

ut based on the grand total number of failures both on S. & T.

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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	2012-13
1	Q Type Plug in Type Relays	57200	55650	65000	74007	65910	67123
2	IRS Point machine	2575	2480	2300	2700	1616	2311
3	Token Less Block Instrument (Push Button Type)	521	650	700	720	263	72
4	Double Line Block Instrument	76	120	138	140	124	120
5	Control panel	54	57	62	60	91	78
6	Polarised Relay	149	269	189	225	175	222
7	Relay rack	296	243	60	0	111	0
8	GRS App cases.	1791	970	1250	1390	1325	1690
9	SSDAC	0	0	22	0	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
2012-13	57.98	741	7.82

Details of Staff strength and Out-Turn per employee are as follows :

The Out-Turn per employee for the year 2012-2013 is 7.82 Lakh.

Incentive scheme

The Incentive scheme was introduced in this workshop from 1st August 1963. An average of 541 staff per month has been covered under incentive scheme for the year 2012-13.

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 of high standard quality. This workshop has got ISO 9001: 2008 Certification for all sections including Administrative offices.

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 this workshop.

Developmental Activities

The following new items are under development and proposed to be manufactured in the workshop in the next year onwards.

- 1) Digital Axle Counter.
- 2) Integrated passenger information system.
- 3) Tri- Colour LED Torch.
- 4) BPAC using UFSBI & MUX combiner Double Line Block Instrument.
- 5) Special relays Viz : QNNA1, QBCA1.
- 6) Add on box for Track Feed Charger.
- 7) Auto fuse change over system.
- 8) Earth Leakage defector.
- 9) Track feed battery charger.
- 10) Integrated power supply system.

The following new items are developed during the 2012-13 year.

1. Daido Block Instrument.
2. Electric Key Transmitter.
3. 10/30 Seconds Electronic Timer.
4. Battery Charger / IPS failure SMS alert system.
5. TLBI with UFSBI for single line.

Computerization in S&T Workshop/Podanur

All the Shops and sections of S&T Workshop and Associated Offices are provided with PC Systems and these are inter-connected 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 9/4/1993. 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 20/5/2012 and the selection process is under progress.

Staff Welfare

The workshop is periodically inspected by the Inspector of Factories and instructions 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 Daido Block instrument Shelf Type Relays etc. A part from these Overhauling activities, this workshop manufacture Electronic Gate Warning Bell, Annunciator, E type lock 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 2012-13 is Rs.3.25Crore.

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.

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	- 01
Instructors	- 06
Demonstrators	- 03
Artizan Instructor	- 02

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 in various classes connected to institutes.

Hostel facility with training to the staff attending the work, a seminar hall cum and comprehensive infrastructure facility is

The Details of course 2012 to March 2013 are

DETAILS OF TRAINEES WHO I APRIL 2012 To MARCH 2013

Sl. No.	Name of Courses
I.	
1	Initial course for App ESMs
2	Initial course for App TCMs
3	App.SSE/Sig.
4	App.SSE/T
	Total
II.	
1	Refresher course for ESMs.
2	Refresher course for TCMs.
	Total
III.	
1	Foundation course ESMs
2	Foundation course TCMs
	Total
IV.	
1	Promotional Course Signal.
2	Promotional Course Telecom.
3	Pro.JE S&T/WS s
	Total
V.	
1	Pre Promotion Course Signal.
2	Pre Promotion Course Telecom.
3	Pre Promotion Course for group C to B
	Total
VI.	Modular Course/
	Modular Course/
	Total
VII. (a)	
1	Block Instrument
2	Point Machine C
3	Signalling in RE
4	Universal Axle C
5	RRI Minor Yard

through e-learning and Virtual ET/SC and other training

participative mess is provided. As part of development of hostel is under construction plan for up gradation of progress in LAW programme.

conducted in the year from April in the enclosure please.

ERGONE TRAINING FOR THE PERIOD T TRAINING SCHOOL - PODANUR

No. of courses Pro-grammed	No. of courses conducted	No. of seats allotted	No. of Staff trained
Courses			
4	4	72	72
4	4	34	34
1	1	4	4
1	1	1	1
10	10	111	111
Refresher Courses			
11	11	385	167
11	11	195	80
22	22	580	247
Foundation Courses			
3	3	83	82
4	4	58	41
7	7	141	123
Promotional Courses			
2	2	20	9
2	2	20	3
1	1	3	3
5	5	43	15
Promotion Course			
4	4	40	21
3	3	30	3
2	2	32	32
9	9	102	56
6	6	65	21
6	6	65	14
12	12	130	35
Equipment Course (Signal)			
5	5	75	86
5	5	80	30
5	5	80	33
5	5	65	22
5	5	100	50

Sl. No.	Name of Courses	No. of Courses Programmed	No. of courses conducted	No. of seats allotted	No. of Staff trained
VII. (a) Equipment Course Signal					
6	IPS, Data Logger, Electronic Interlocking	5	5	80	36
7	Electronic Interlocking and Modern signalling	1	1	25	8
8	Push button tokenless block instrument	2	2	20	10
9	Automatic Signal/AFTC	5	5	60	14
10	TLB instrument/PTJ make	1	1	25	2
11	FM instrument & DLB instrument	1	1	25	15
12	Induction to unskilled	7	7	100	80
13	Earth Leakage Detector (Spl.course)	1	1	1	87
14	Maintenance of DG set (Spl. Corse)	1	1	10	47
15	Electronic interlocking (Spl.course)	1	1	10	22
16	Track circuit and Electrical Key transmitter (Spl.course)	1	1	10	62
Total		51	51	766	604
VII. (b) Equipment Course (Telecommn.)					
1	Train traffic control RE / Non RE	6	6	90	19
2	PRS,UTS & IPIS	4	4	40	16
3	Optical fibre communication	9	7	110	25
4	PDH/SDH	6	6	100	22
5	ISDN Exchange	6	6	100	28
6	Railnet, FOIS	5	5	50	22
7	Data Communication	7	7	110	28
8	Splicing, OFC cable, Quad cable	4	3	30	10
9	Modern communication	1	1	30	3
10	Power equipment cells and batteries	3	3	90	11
11	PA systems	2	2	50	6
12	Induction to unskilled	4	4	58	21
Total		57	54	858	211
VIII Common Course					
1	Yoga & Meditation	12	12	180	47
2	Computer appreciation	12	12	180	49
3	Special course on SOP	1	1	10	10
Total		25	25	370	106
Grand Total		198	195	3101	1508
Sl. No.	Name of Courses	Seats allotted	Seats Utilised	% Of Utili-sation	
1	Intial Course	111	111	100%	
2	Refersher Course	580	247	43%	
3	Foundation Course	141	123	87%	
4	Promotional Course	43	15	35%	
5	Pre Promotional Course	102	56	55%	
6	Modular Course	130	35	27%	
7	Equipment Courses/Signal	766	604	78%	
8	Equipment Courses/Tele	858	211	25%	
9	Common Courses	370	106	29%	
Total		3101	1508	1189.45%	

7. Staff

(i) Total strength of staff (cadrewise separately for Signal and Tele-communication staff) in respect of Inspectors and Artizans 2012-13.

Sl. No.	Category	Total Nos.
(a) Signalling—		
(1)	Signal Engineers	334
(2)	Technician Signal	1,534
(b) Tele-communication—		
(1)	Tele-commn. Engineers	235
(2)	Technician, Tele-commn	579
(3)	Wireless Instrument machanics	127

(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.	23
(3)	SEE/Tele.	10
(4)	JE/Tele.	20
(5)	Technician/Gr. II/Signal	122
(6)	Technician/Gr. III/Signal	166
(7)	Technician/Gr. III/Tele.	82
(8)	Wireless Instrument Mechanics	NH

(iii) Total No. of staff trained through Zonal Training Schools/Centres category wise during 2012-13.

Sl. No.	Name of the courses	No. of courses conducted	No. of staff trained
(1)	Refresher Course	22	247
(2)	Initial Course	10	111
(3)	Equipment Course	109	815
(4)	Foundation Course	7	123
(5) Pre-promotional Courses			
(a)	ESMs/MSMs/TCMs	7	24
(b)	Group 'C' to Group 'B'	2	32
(c)	Promoted JEs	5	15
(d)	Promoted Group 'C' to 'B'	9	48
(6)	Other courses - Computer	12	46
	Other. courses - Yoga	12	47
	Other courses - SOP	1	10
Total		195	1,508

(iv) Signal and Tele-communication Units for 2012-13

Division	DISTUs
Chennai	4,96,955
Salem	1,68,356
Palakkad	1,36,131
Thiruvananthapuram	1,85,217
Tiruchchirappalli	1,70,960
Madurai	1,33,478
Total	12,91,097
ZISTUS	36,80,456



X. भंडार/STORES

1. Organisation of Stores Department :—

The Stores Department is taking care of Material Management activity & adequate quantity of materials, of right quality, at right time. To meet the requirements stores depots are functioning, spreading over six Divisions of Southern Railway. The about 7324 stocked items required on regular basis, apart from procuring high value 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. No.	Name of the depot (Depot Code)	Brief function
1	General Stores Depot, Perambur (00).	Supply of materials required for Chennai Division, mainly ; Supply of uniforms throughout Southern Railway Supply of books and forms & money valued items to Southern Railway, South Western Railway & ICF; Major scrap depot of Southern Railway.
2	General Stores Depot, Golden Rock (24).	Supply of materials required for Trichy Division
3	Divisional Stores Depot, Erode (13).	Supply of materials required for Salem Division.
4	Divisional Stores Depot, Madurai (14).	Supply of materials required for Madurai Division.
5	Divisional Stores Depot, Quilon (20).	Supply of materials required for Trivandrum Division.
6	General Stores Depot, Palakkad (07).	Supply of materials required for Palakkad Division.
7	Coach Maintenance Stores Depot, Basin Bridge (25).	Supply of C&W materials required for Chennai Division.

2.2 Depots attached with Diesel/Electric Sheds :

Sl. Nos.	Name of the Depot (Depot Code)	Brief function
1	Diesel Stores Depot, Erode (08).	Supply of materials required for Diesel Shed, Erode.
2	Diesel Stores Depot, GOC (18).	Supply of materials required for Diesel POH Shed, Goldenrock.
3	Dieselshed/Stores Depot (19).	Supply of materials required for Diesel Loco Shed/Goldenrock.
4	Electric Loco Stores Depot, Arakkonam (21).	Supply of materials required for Electric Loco Shed at Arakkonam & Royapuram.
5	Electric Loco Stores Depot, Erode (22).	Supply of materials required for Electric Loco Shed /Erode.
6	Diesel Stores Depot, Ernakulam (23).	Supply of materials required for Diesel Loco Shed, Ernakulam.
7	Diesel Stores Depot, Tondiarpet (26).	Supply of materials required for Diesel Loco Shed, Tondiarpet.

ly committed to arrange various Departments, 24 department is arranging Non-Stock items through

Sl. No.	Issue value 2012-13 (in Crs. of ₹)	Staff Strength
3	139.32	289
24	6.28	41
32	5.71	14
53	5.91	35
02	6.46	19
20	3.32	9
62	3.56	16

Sl. No.	Issue value 2012-13 (in Crs. of ₹)	Staff Strength
275	18.20	33
574	34.29	17
1838	12.21	42
1019	10.40	22
800	9.84	21
957	7.31	20
794	3.84	17

2.3 Depots attached with Workshop :

Sl. No.	Name of the depot (Depot Code)	Brief function	No. of items stocked	Issue value 2012-13 (in Crs. of ₹)	Staff Strength
1	Loco Stores Depot, Perambur (01).	Supply of materials required for Loco Works, Perambur.	2123	43.39	101
2	Mechanical Stores Depot/ GOC (02)	Supply of materials required for Mechanical Workshop, Golden Rock.	1124	72.74	240
3	Carriage Stores Depot/ Perambur (28).	Supply of materials required for Carriage Works, / Perambur.	1630	123.48	101
4	Branch Stores/Arakkonam (09)	Supply of materials required for Engineering Workshop/Arakkonam.	187	5.37	22

2.4 Depots attached with EMU Sheds :

Sl. No.	Name of the Depot (Depot Code)	Brief function	No. of items stocked	Issue value 2012-13 (in Crs. of ₹)	Staff Strength
1	Traction Stores Depot/ Tambaram (10).	Supply of materials required for Traction Depot, Tambaram and Velachery.	873	6.52	29
2	Traction Stores Depot/ Avadi (27).	Supply of materials required for Traction Depot, Avadi.	855	10.60	27

2.5 Depots attached to Manufacturing Shops :

Sl. No.	Name of the depot (Depot Code)	Brief function	No. of items stocked	Issue value 2012-13 (in Crs. of ₹)	Staff Strength
1	Signal Stores Depot, Podanur (11).	Supply of materials required for Signal & Telecom Workshop, Podanur.	400	95.41	45
2	Wagon Production, Golden Rock (17).	Supply of materials required for Wagon Production, Workshop, Golden Rock.	4	2.81	49

2.6 Other Depots :

Sl. No.	Name of the depot (Depot Code)	Brief function	No. of items stocked	Issue value 2012-13 (in Crs. of ₹)	Staff Strength
1	Combined scrap Stores Depot, Golden Rock (05)	Receiving of scrap from various shops of central workshop/GOC & other Scrap from Open Line and arranging its disposal through Manual /e-Auctions.	—	112.31	68

2.7 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.

2.7.(i) Productivity of Printing Press at Royapuram

The production output of the General Printing Press for the year 2012-13 is 7.91 crores at DFCL against the targeted out turn 7.2 crores per year. This includes standard forms and money value items.

2.7.(ii) Production of Ticket Printing Factory, Trichy

Tickets are printed at Ticket Printing Factory. For the year 2012-13, only 3.13 Crores tickets have been printed against the Target of ₹ 7.8 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 the total receipts for the year 2012-13. So, the actual production for the year 03.13 crores is very less against the targeted out turn. As per the directives of Railway Board TPF / MYS has been closed down on 28.02.2013 and printing load of TPF / MYS has been under taken by TPF / TPJ.

3. ISO Certification :

Southern Railway is the first Zonal Railway to get ISO 9001:2000 certification same has been upgraded to ISO 9001-2008. and has been renewed upto 22nd August 2013.

4. P L Unification System :

Southern Railway has hosted a common website since April 2012 for PL to facilitate the process of Unification of PL Numbers i.e. assigning of Unified PL Numbers i.e. PL Numbers with sub group 98 and 99.

PLUS is an interactive website providing a common platform for all the Zonal Railways to get the Unified PL Number details from the respective nominated Railways. This web site is being utilised by all the Zonal Railways and Production Units.

Globally against 44292 temporary PL Numbers uploaded by various Railways, 2296 unified PL Numbers have been assigned through this website.

Out of 3220 temporary PL Numbers uploaded by Southern Railway, 2561 have been received and 2296 PL Numbers have been adopted in MMIS.

Southern Railway being the nominated Railway for Groups 33,37,28,71,79,91 and 99, has received 1465 so far, 867 have been returned to the requesting Railway for waiver.

5. E-Auction & RTGS:

5.1 E-AUCTION : e-auction has been successfully implemented in Southern Railway. The Railway Board's scrap sale target of ₹ 6 Crores through e-auction fixed for the year 2012-13 has been achieved. Total sale through e-auction during 2012-13 has been ₹ 7.43 Crores in December 2012.

5.2 RTGS: Southern Railway is the first Zonal Railway to implement RTGS facility for scrap sale. The Railway Board has appreciated the payment procedure adopted by Southern Railway and advised all the other Zonal Railways to implement the same. Southern Railway has collected ₹114.93 Crores in 2012-13 through RTGS.

6. Stores Balance-2012-2013

	Maintenance
(I) Opening Balance	
Phy. stock without Adjustment	75.55
Adjustment	-0.15
Stores Suspense balance	7.18
Total as per approx accounts	82.58
(ii) Receipts during the year	1393.41
(iii) Issues during the year	1382.74
(iv) Closing Balance	
Phy. stock without Adjustment	93.25
Adjustment	-0.15
Stores Suspense balance	-37.27
Total as per approx accounts	55.83

7. Inventory Performance 2012-13

- 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)

he purchase office. The 4.

ation System (PLUS) to for various temporary PL

ays to request and receive ing utilised by all the Zonal

d Production units, 29286

d PL Numbers have been

o far received 2370 requests ear specification.

ern Railway has exceeded nth of December 2012 by is ₹ 26.26 Crores.

mittance of EMD / Balance adopted for RTGS mode in ern Railway has collected

(Figs. in crores of ₹)

Works	Total
0.26	75.81
0	-0.15
0	7.18
0.26	82.84
0.06	1393.47
0.09	1382.83
0.23	93.48
0	-0.15
0	-37.27
0.23	56.06

(figs in crores of ₹)

- 93.22
- 85.70
- 740.19
- 1382.82
- 12.59 %
- 6.20 %

8. Economy Effected In Stationery and Other Materials.

Stringent economy is enforced in the utilisation of stationery and other materials of general usage.

9. Purchase of Stores**9.1 Purchase -Value of Railway Equipment and Stores 2012-13**

(Attested by Finance and includes Track Materials also)

(figs. in crores of ₹)

1. Total value of equipment & stores	- 2610.11
2. Value of stores ordered through department of supply	- 5.72
3. Value of stores ordered through Railway Board	- 1876.58
4. Value of stores ordered by the Railway Direct.	- 727.81

9.2 Details of purchases of Stores 2012-13

Every year about 4,212 stock orders and 928 non-stock orders are released by the office of the COS

(figures in crores of ₹)

1. Materials imported direct	- 44.49
2. Materials imported through agencies in India	- 0
3. Total imported direct and through agencies	- 44.49
4. Indigenous materials	- 2565.62
5. Total imported and indigenous	- 2610.11
6. Percentage of items (4) over (5)	- 98.30 %

9.3 Purchase From Khadi, Cottage And SSI Units

Value of purchases falling within the category of khadi, cottage and small scale industrial products during the year 2012-13 amounted to ₹ 46.70 crs.

10. Supply Position of Materials

a. General :— The supply position of materials was generally satisfactory.

b. Steel :— Statement showing supply position of Pig Iron, steel, etc. (2012-13)

(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	272.000	0	1.940	1.940
2	Structural	658.728	123.245	664.696	492.695
3	Plates	1938.146	297.919	2179.848	2044.947
4	Sheets	2030.392	239.099	1768.995	1816.476
5	Spring Steel	174.715	52.817	225.305	274.007
6	Tool Alloy & Steel Plates	—	—	—	—

11. Disposal of Scrap - During 2012-13, Southern Railway generated a revenue of ₹ 280.73 Crores, by sale of various Scrap items :—

Category of Scrap	Balance as on 01.04.12		Receipts during the year		Scrap Disposed off during the year		Balance as on 01.04.2013	
	Qty/ MT	Value (in Crs. of ₹)	Qty/ MT	Value (in Crs. of ₹)	Qty/ MT	Value (in Crs. of ₹)	Qty/ MT	Value (in Crs. of ₹)
I. Ferrous Scrap								
a. P. Way scrap	902	2.27	52466	146.45	46209	128.71	7159	20.01
b. Other than P. Way scrap	1014	2.54	28518	77.39	29455	79.72	77	0.21

Category of Scrap	Balance as on 01.04.12		Receipts during the year		Scrap Disposed during the year	
	Qty/ MT	Value (in Crs. of `)	Qty/ MT	Value (in Crs. of `)	Qty/ MT	Value (in Crs. of `)
II. Non-ferrous Scrap.	71	00.81	3265	37.31	3284	
	Qty./No.	Value (in Crs. of `)	Qty./No.	Value (in Crs. of `)	Qty./No.	Value (in Crs. of `)
III. Rolling Stock						
a. Wagon	35	0.74	571	13.46	603	
b. Coaches	5	0.21	57	2.89	54	
c. Locos	2	61	13	1.60	15	
IV. Misc. Scrap	Qty/ No.	Value (in Crs. of `)	Qty/ No.	Value (in Crs. of `)	Qty/ No.	Value (in Crs. of `)
Misc Scrap (*) in MT.	100	0.20	3663	8.62	3639	
Misc Scrap in No.	203	0.60	1000	7.10	1090	

(*) - Misc Scrap includes T&P items, Machineries, Paper, Glass, etc- some of which others weighed on MTs.

Scrap Reclamation :

Ferrous Scrap : 713 mt. Value 1.49 Crs.

Non-Ferrous Scrap : 61 mt. Value 1.68 Crs.

Misc. : 51 mt. Value 0.10 Crs.

12. Supply of Uniforms

Clothing Factory: This is functioning at General Stores Depot, Perambur cate Southern Railway. Depending upon the scales uniforms are issued to the eligible staff.

Type of Fabric	No. of garments indented for	No. of Garments actually supplied	No. of Garments to be supplied
Terrycotton	2,38,623	95,284	1,43,339
Serge (Winter)	522	Nil	522
Total	2,39,145	95,284	1,43,861

In addition, 37,766 Nos. of ready made garments and 64,980 bedroll items

13. Receipt, Inspection & Issues of Stores

13.1 Statistics on Receipts and Inspection :—

	2010-11	2011-12	2012-13
1. No. of Staff for clerical and supervision work (Nos.)	105	94	84
2. Yearly Expenditure of staff (₹ in Lakhs.)	840.27	380.24	357.69
3. Value of stores inspected/received (₹ in Lakhs)	63316.23	9012.67	54,961.92
4. Cost of receipts and inspection per ₹ 100 of value of stores	1.33	0.78	0.65
5. Receipt notes granted, per clerk per month	40	36	47

Balance as on 01.04.2013	
Qty/ MT	Value (in Crs. of `)
52	0.59
Qty./No.	Value (in Crs. of `)
3	0.07
8	0.40
0	0
Qty/ No.	Value (in Crs. of `)
124	0.41
113	0.38

identified in Nos and some

the uniform requirement of compliance is as under:-

% of compliance
39.93
Nil
39.84

issued during 2012-13.

13.2 Statics on Accounts and Departmental Stock Verification

	2010-11	2011-12	2012-13
1. Percentage of items verified			
(a) with no discrepancy.	99.31	99.56	99.16
(b) with discrepancies			
Upto limit of ₹ 50/-	0.04	0.03	0.05
Upto limit of ₹ 1000/-	0.27	0.14	0.10
Above the limit of ₹ 1000/-	0.33	0.27	0.70

13.3 Loss and gain brought to light as a result of departmental and Accounts verification (Stores Depots only)

(₹ in Lakhs)				
Year	Loss	Gain	Net Gain	Net Loss
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
2012-13	3.18	7.27	4.09	..

13.4 Statistic on Unit cost of Issues

	2010-11	2011-12	2012-13
1. Value of stores issued during the year from the depots (figures in lakhs of ₹).	68514.83	82717.88	74019.98
2. Pay and Allowances of depot staff (figures in lakhs of ₹).	1474.13	1815.46	1947.48
3. Cost of making issues worth ₹ 100/-	2.15	2.19	2.63

14. Availability of items (as on 31st March 2013)

1. Total No. of stocked	7324
2. No. of items available	7045
3. Percentage	96.19%

15. Overstock and Surplus Stores

Details	(Value in lakh of ₹)	
	As on 31-3-2012	As on 31-3-2013
1. Surplus	28.73	36.21
2. Over Stock	206.04	192.71

16. Printing Press

16.1 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.	880.49	214.98	1095.47
Work done for other Rlys.	298.21	4.04	302.25
Total	1178.70	219.02	13.97.72

16.2 Paper consumption for Press during the year 2012-13

For general stationery Printing of Forms and Books, and for stations and tickets, Boards – 435 MTs.

16.3 Out-turn of Forms, Money Value Books and Card Tickets. –

Particulars	Books, Forms & Money value Items (In terms of Books)
(i) Work done for S.Rly	
2008-2009	20,08,626
2009-2010	23,73,255
2010-2011	24,64,594
2011-2012	28,42,689
2012-2013	31,58,828
(ii) Work done for others Rlys.	
2008-2009	1,33,737
2009-2010	1,58,740
2010-2011	1,81,500
2011-2012	2,86,083
2012-2013	3,12,155

Card Tickets printed in Numbers
8,29,42,250
5,75,84,300
3,46,33,450
2,69,87,000
3,07,01,800
7,32,750
5,10,350
1,78,200
2,68,800
5,76,950

17. Shipping and Imports :

The details of Imported Cargo cleared during 2012-13 is as under :

Sl. No.	Description
1	Hyd. Pinion puller for Tr.Motor and loco spares 51 items ..
2	Solid wheels for Metro Coaches ..
3	Hyd. Pinion puller for Tr.Motor and loco spares 7 items ..

Qty. in MT	No. of containers
0.439	LCL
35.075	1 X 40'
0.144	LCL

18. Right to Information Act .

A total no. of 65 RTI applications were dealt with during 2012-13 for which, in addition, 8 RTI appeals and one CIC appeal were also disposed.

Required information was given. In



XI. चिकित्सा/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 1,06,074 and 55,484 retired employees have also registered in the RELHS for availing the health facilities. The total number of Railway beneficiaries are 4,24,296.

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 1236. 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
Palakkad—with 106 beds
Trivandrum—with 54 beds

4 Sub-Divisional Hospitals viz.: Villupuram —with 26 beds
Erode—with 30 beds
Podanur—with 28 beds
Shoranur—with 24 beds

Lock up Dispensaries viz : Kadaperi, Kumbakonam, Thiruthurai poondi, Needamangalam, Ariyalur, Athur, Chinnasalem, Chidambaram, Nagappattinam, Mannaparai, Milavittan, Pattukottai, Rameswaram.

ARME

SPART at MAS and ARME SCALE I AND SCALE II in the following locations :—

ARME Scale I			ARME Scale II		
Division	Broad Gauge	Metre Gauge	Broad Gauge	Metre Gauge	Narrow Gauge
Chennai	Jolarpettai, Chennai Central	..	Arakkonam, Katpadi, Sullurpet	..	..
Golden Rock	Tiruchchirappalli, Villupuram, Tiruvarur	..	Virudhachalam, Mayavaram, Tiruvannamalai	..	..
Madurai	Madurai, Sengottai	..	Dindugul, Karaikudi, Manamadurai, Mandapam, Virudhunagar, Tirunelveli, Tuticorin, Palani	..	..
Palakkad	Mangalore, Shoranur	..	Cannanore, Calicut, Palghat	Pollachi	..
Trivandrum	Ernakulam, Trivandrum	..	Nagercoil, Quilon, Kottayam, Alleppey, Trichur	..	..
Salem	Erode	..	Podanur, Salem, Karur	Coonoor	..

42 Health Units viz.

Chennai Divn. : 11—Jolarpettai, Katpadi, Haffieldpet, Avadi, New Genl. Office, Chennai Egmore, Tondiarpet, Royapuram, Tambaram, Chenglepet, Sullurpet.

Tiruchchirappalli Divn. : 8—Tiruchchirappalli Junction, Trichy Fort, Srirangam, Virudhachalam, Tiruvannamalai, Mayiladuthurai, Tiruvarur, Tanjore.

Madurai Divn. : 9—Dindugul, Mandapam, Palani, Karaikudi, Sengottai, Tuticorin, Manamadurai, Tirunelveli, Virudhunagar.

Palakkad Divn. : 4—Mangalore, Cannore, Calicut, Pollachi.

Trivandrum Divn. : 6—Ernakulam, Quilon, Kottayam, Nagercoil, Trichur, Alleppey.

Salem Divn. : 4—Salem, Mettupalayam, Karur, Coonoor.

Statistics

Man Power	Staff Strength	On Roll	Vacancies
Doctors	198	150	48
Nurses	515	486	29
Other paramedical	1,932		

From : April-2012 to March-2013

Health Care :

Total OPD Nos.	..	19,59,642
Total IPD Nos.	..	35,369
Major Surgeries	..	2,900
Special Surgeries	..	2,173
Minor Surgeries	..	2,792

Industrial Health :

Total No. of RMCs Issued	..	1,03,115
Total No. of Man- days loss	..	11,01,500
Man-day's lost due to IOD/ HOD	..	58,214

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, Family Medicine and Orthopaedics. It is also recognized by the Royal College of Surgeons, Edinburgh, for part II FRCS examinations.

Hospital information management system is available in this hospital. At present we have computers installed in various units of the hospital with a central machine with Magnum Module. Computerisation is being done in other areas of work of the hospital. The data are used not only for clinical and research work, but also for inventory control, office automation, drug and equipment stores other auxiliary units etc.

1. (a) Cardiac Unit of RH/P

The department of Cardiac All India Referral Centre for the year 2012-2013, 643 Open Heart Surgeries (this includes for coronary artery disease, rheumatic heart disease) were performed. About 378 PTMC, PTCA, PVP, PTR and 1534 Cardiac Catheterisation and Coronary Angiography were performed.

A very active teaching programme exists with regular seminars, journal review 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, pulsed Doppler study, permanent pacemaker implantation, electrophysiology study etc. The department has got all modern equipment for treating cardiac patients, including two cath Labs, IVUS, 2D echocardiogram with Doppler system, holter monitoring system, treadmill etc.

We have established a link programme with the Institute of Child Health, for knowing advancements in the various techniques of Pediatric 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, valve repairs and replacements, congenital heart diseases, 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 Railway functioning. All therapeutic measures are being done here. However, a transplant programme in collaboration with private hospital is also running. On an average 5532 haemodialysis, 2 renal biopsies, 8 peritoneal dialysis, 20 CAPD treatments were performed.

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 quick response to emergencies. The services provided are ultrasound for ward procedures, endoscopy, bronchoscopy, thoracoscopy, bronchoscopes, ar lavage and transbronchial biopsies, EEG, renal biopsies, pacemaker facility etc.

Well-equipped intensive care unit with non-invasive and invasive diagnostic techniques are available for effective management of medical emergencies. 1,400 endoscopies were performed during the year. This department is recognised by National Board of Examinations for Post Graduate degree in General Surgery medical

and Cardiac Surgery is an important part of heart diseases. In Cardiac Surgeries and 23 closed heart surgeries and various surgical procedures for congenital heart disease and rheumatic heart disease. About 378 PTMC, PTCA, PVP, PTR and 1534 Cardiac Catheterisation and Coronary Angiography were performed.

A very active teaching programme exists with regular seminars, journal review 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, pulsed Doppler study, permanent pacemaker implantation, electrophysiology study etc. The department has got all modern equipment for treating cardiac patients, including two cath Labs, IVUS, 2D echocardiogram with Doppler system, holter monitoring system, treadmill etc.

We have established a link programme with the Institute of Child Health, for knowing advancements in the various techniques of Pediatric 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, valve repairs and replacements, congenital heart diseases, etc. In the recent years, beating heart surgery is very popular avoiding usage of heart lung machine.

Full-fledged nephrology unit, which is a referral center for the Indian Railway functioning. All therapeutic measures are being done here. However, a transplant programme in collaboration with private hospital is also running. On an average 5532 haemodialysis, 2 renal biopsies, 8 peritoneal dialysis, 20 CAPD treatments were performed.

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 quick response to emergencies. The services provided are ultrasound for ward procedures, endoscopy, bronchoscopy, thoracoscopy, bronchoscopes, ar lavage and transbronchial biopsies, EEG, renal biopsies, pacemaker facility etc.

Well-equipped intensive care unit with non-invasive and invasive diagnostic techniques are available for effective management of medical emergencies. 1,400 endoscopies were performed during the year. This department is recognised by National Board of Examinations for Post Graduate degree in General Surgery medical

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 1,726 cataract operations were performed during the year 2012-2013.

11. Department of Radiology :

Department of Radiology has facility to do, apart from routine procedures, contrast studies and ultrasound scanning.

12. Department of Laboratory Medicine :

This hospital has a well-equipped laboratory, which consists of a blood bank, serology lab. and microbiology. Screening for HIV and serum Hepatitis B and C are routinely done.

13. Department of Telemedicine :

Telemedicine facility is available between Railway Hospital, Perambur and Zonal Railway Hospitals, such as Maligaon, N.F.Railway, Danapur E.C Railway, Central Hospital, Allahabad N.C. Railway.

Connectivity is also available between Railway Hospital Perambur and all other divisional hospitals in Southern Railway.

Teleophthalmology is available between Railway, Perambur and Sankara Nethralaya. Regular case discussions are being held.

14. Best Health Unit :

To improve efficiency of health services and to ensure customer satisfaction, a rolling shield called **"CMD's Rolling shield for best Health Unit"** is given to the best maintained Health Units every year. This year HU/TEN/ of MDU division has been adjudged as the Best Health Unit and the shield was presented by GM during the Railway Week Celebrations.

15. Public Health :

Public health wing is looking after the sanitation of important stations and colonies and monitoring the quality of safe drinking water to the traveling public as well as to Railway population. Control and Prevention of communicable diseases is a major work of this wing.

16. FSSA-2011 :

PFA act 1954 has been repealed during August 2011 and New Food Safety and Standards Act 2006 has been implemented from September 2011 onwards. A separate Food Safety Wing consecutive of One DO- (Designated Officer), and Two FSO- (Food Safety Officer) have been formed to implement this Act throughout Southern Railway. New food licensees to unit catering units are being issued by this wing.

Food samples were collected regularly and sent for analysis and action initiated. Details of Food samples collected during 2012-2013 are given below :—

No.of food samples collected	-	38
No.found adulterated / Misbranded	-	7

Quality of water supplied at stations and colonies are monitored by conducting regular tests for residual chlorine and for bacteriological and chemical analysis. Details of water samples found fit during 2012-2013 are given below :-

1. For Bacteriological analysis - 75.00 %
2. For Residual Chlorine - 77.00 %

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 419, which includes 260 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 (161) living with HIV Positive, to enhance the quality of life.

20. Family Welfare Progr

Reproductive and Child the Railway beneficiaries Antenatal clinic, Immuniz are conducted through out

During the reporting year have been conducted through Laparoscopic sterilization year 8 Laparoscopic cam operations were performed in Southern Railway.

In order to create a divisions "Best FW Centre" to the best performed family welfare center. This year this award was given to the F

21. Health Promotion :

Towards health promotion Education campaigns by programmes etc. covering communicable diseases, Yards, Training schools &

22. Master Health Check

12,000 Railway employees beneficiaries through 27

23. Pulse Polio Immunisation

Pulse Polio Immunisation below 5 years during car

24. Control of Tuberculosis

Health education classes Officers of S.Rly and distributed. Screening Div.Hospitals and Health

All TB patients registered without any interruption supplement are given to

25. St.John's Ambulance

No. XX Southern Railway effectively and First Aid regularly.The following a

1. 46th Annual Dis from 08-07-201
2. Annual competition to 31-10-2012.
3. S/Shri G.Nar received Jiv F the year 2011- during the mon
4. Awards received Governor of T and GM & DRM.

n services are rendered to ly. Regular well baby clinic, linic, well baby shows etc. Southern Railway.

12-2013, 456 sterilizations Southern Railway. Regular were also conducted. This re conducted. 9 vasectomy ring the year in Southern Railway.

y competition among the rd is being given every year lfare center. This year this I/PER.

we are organising Health of classes, Exhibitions, Quiz ous Communicable and non colonies, Offices, Workshops, ilway schools, etc.

above 50 years were the all over the Southern Railway.

as given to 26,634 children in February 2013.

were conducted by Medical education materials were mps were conducted at on Southern Railway.

e being given Anti-TB drugs nder DOTS. Protein food tients.

ade, No.20, S.Rly.Dist :

District of SJAB is functioning ining to staff are imparted highlights of SJAB :-

camp & Training held at Hubli 2-07-2012.

d at Villupuram from 30-10-2012

n and V.Shanmugam have and St.John's Gold Medal for om Hon'ble President of India May 2013.

SJAB personnel from Hon'ble lu, Human Rights Commission during the year 2012-13. GM &

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.

Palakkad Division :

The Divisional Hospital at Palakkad is well equipped. All the routine and specialised works are being done in the divisional hospital at Palakkad. 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 Thycad- 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 2011-2012 and 2012-13

Sl. No.	Particulars	2011-12	2012-13
1.	Total No.of staff	1,06,338	1,06,074
2.	Cost of Medical services	1,51,41,99,000	1,66,01,83,000
3.	Cost of Medical services per head per annum.	14,240.83	15,651.17
4.	Cost of Health service in thousands of rupees.	25,97,13,000	27,44,67,000
5.	Cost of Health service per head per annum.	2,442.56	2587.50
6.	(a) Cost of drugs in rupees	52,26,67,000	56,68,07,000
	(b) Total amount of reimbursement in rupees	..	..
7.	Total cost of Medical & Health service per annum per head in ₹	16,683.39	18,238.67
8.	No.of Rly employees & their families treated-New cases.	4,63,940	4,15,956
9.	No. of females & children treated - New cases.	1,80,985	1,47,084
10.	Daily average - out door attendance of Rly. employees & their families at Rly. Hospital/ health units/ old & new cases.	6523	4943
11.	No. of Hospital	10	10
12.	No. of Health Units		
	A With beds	41	41
	B Without beds	1	1
13.	No. of Railway population per. Railway Hospital/ health unit	10030	12445
14.	No.of chest clinics	7	7
15.	No.of dental clinics	6	6
16.	No.of maternity clinics	26	26

2. Statistics for the year 2011-2012 and 2012-13

Sl. No.	Particulars	2011-12	2012-13	Sl. No.	Particulars	2011-12	2012-13
17.	No. of beds			24	No. of Rly. Popula Rly doctor.	2740	2733
(a)	General	862	862	25	No. of mobile van	0	0
(b)	TB	57	57	26	Accident relief m equipment		
(c)	Maternity	126	126	(a)	ARME scale I	11	11
(d)	Isolated	5	5	(b)	ARME scale II	26	26
(e)	ICCU	85	85	27	No. of operation		
Total		1135	1135	(a)	Major	5426	5826
18.	Health units			(b)	Minor	4467	2924
(a)	Emergency beds	52	52	(c)	Trivial	5337	7283
(b)	Maternity beds	18	18	28	Family welfare a		
19.	Total No. of beds in hospitals/ health units, chest clinics etc.	1,205	1205	(a)	Centres	4	4
20.	No. of beds per 1000 Rly employees including TB beds.	9.51	10.7	(b)	Sub- Centres	2	2
21.	No. of beds per 1000 Rly employees excluding TB beds.	10.13	10.16	29	No. of sterilizati performed		
22.	No. of TB beds reserved in railway institutions.	0	0	(a)	Tubectomy	532	447
23.	No. of doctors			(b)	Vasectomy	20	9
(a)	Chief Medical Director	1	1	Total		552	456
(b)	Dy.CMD/T&A	1	1	30	No. of I.U.D. ins	103	84
(c)	Dy.CMD/H&FW	1	1	31	No. of conventio contraceptives c		
(d)	Chief Health Director	1	1	(a)	Condom users	2335	2040
(e)	Chief Medical Superintendent	5	3	(b)	Diaphragm	0	0
(f)	Medical Superintendent/ Sr.DMOs.	187	192	(c)	Jelly cream tube	0	0
(g)	Medical Directors	1	1	(d)	Foam tablets	0	0
(h)	Chief Surgeon	1	0	32	Oral pills distrib		
(i)	Chief Staff Surgeon	2	0	A	No. of oral pills	1588	958
(j)	Chief Dy. Medical Supt.	0	0	B	No. of users of	122	73
(k)	Chief Paediatrician	0	0	33	Recanalisation		
(l)	Chief Gynecologist	0	0	(a)	No. of railway f recanalisation.	1	1
Total		198	198	(b)	No. of cases d	0	0



1. General

During the year under review cordial and harmonious relations were maintained in this Railway.

2. Number and cost of Staff for 2012–2013 compared with 2011–2012.

Group of Staff	Number of staff					
	Open line		Construction		Total	
	2012–13	2011–12	2012–13	2011–12	2012–13	2011–12
Group 'A'	440	430	102	127	542	557
Group 'B'	476	510	101	105	577	615
Group 'C'	90,589	90,600	1,508	1,725	92,097	92,325
Group 'D'	583	980	6	15	589	995
Total	92,088	92,520	1,717	1,972	93,805	94,492

Cost of staff (Rs. in lakhs)					
		2012–2013		2011–2012	
Group 'A'	..	..	12,141.39	..	11,063.45
Group 'B'	..	..	6,775.14	..	6,198.60
Group 'C'	..	..	5,39,398.33	..	4,80,628.87
Group 'D'	..	..	979.26	..	1,451.61
Total	..	..	5,59,294.12	..	4,99,342.53

* 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 2012–2013		
	SC	ST	OBC	SC	ST	OBC
Group 'C'	2,674	1,331	4,698	2,463	1,071	4,004
Group 'D'	0	0	0	0	0	0

(b) Promotion of S. C. /S. T. candidates in Group 'C' & 'D' Services : 2012–2013.

(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'	325	144	245	99
(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'	1,394	757	1,137	434
(ii) Within Group 'D'	41	19	41	7

(c) Short fall in SC/ST/OBC as on 31st March 2013.

Recruitment Categories	Scheduled Castes	Scheduled Tribes	Other Backward classes
Group 'C'	313	224	388
Group 'D'	203	185	564

(d) Short fall in SC/ST as on 31st March 2013.

Promotional Categories	Scheduled Castes	Scheduled Tribes
Group 'C'	685	1018
Group 'D'	175	288

XII. कर्मचारी/STAFF

(e) Statement showing the Number of employees belonging to Scheduled Castes and Scheduled Tribes as on 31st March 2013 —

Group	Total No. of employees as on	Scheduled Castes	Percentage	Scheduled Tribes	Percentage
Group 'A'	..	..	..	..	..
Group 'B'	..	..	..	..	..
Group 'C'	75,923	12,337	16.25	5,740	7.56
Group 'D'	15,976	3,832	23.99	1,731	10.84
(excluding Safaiwala).					
Group 'D'	1,264	746	59.02	96	7.59
(Including Safaiwala)					

4. Recruitment and Training

4.1 Recruitment :

(a) (i) Group "A" and "B" Service— Permanent appointment to Group "A" as well as appointment to Group "B" service that were made during the year 2012–2013, are as follows :—

Department	Group 'A'	Group 'B' (Promotion)
Personnel ..	..	3
General Management ..	..	4
Electrical ..	3	..
Transportation (Traffic & Comm.)	1	4
Engineering ..	3	..
Stores ..	..	2
S & T ..	..	7
Medical ..	1	..
Mechanical ..	1	8
School ..	..	3

(a) (ii) Number of Group 'B' Officers absorbed in Group 'A' during the year 2012–2013.

IRPS—2, IRSEE—8, IRTS—6, IRSE—5, IRSS—0, IRSSE—3, IRSME—7.

4.2 Training :

(a) (i) Group 'A' and 'B' services.

Staff strength on Southern Railway Department wise as on 31–03–2013.

Sl. No.	Department	Group 'A'	Group 'B'
1.	General Management	29	15
2.	Personnel	17	45
3.	Accounts	31	65
4.	Engineering	101	150
5.	Transportation & Commercial	54	41
6.	Mechanical & CMT	27	48
7.	Stores & Press	34	24
8.	Electrical	43	64
9.	Signal & Telecommunication	22	87
10.	Medical	151	27
11.	Security	23	..
12.	Railway School	..	..
	Total	532	602

(a) (ii) The number of officers who attended the training courses during the year 2012–13 are as follows :—

Training Institutions	Mandatory Course
RSC—Vadodara	68
IRICEN—Pune	74
IRISSET—Secunderabad	18
IRIMEE—Jamalpur	13
IRIEEN—Nasik Road	28

4.3 Statement for the Financial year ending 31st March 2013 regarding Privilege Passes and P.T.Os issued to Railway employees :—

Class	Group	Privilege Passes			P.T.Os		
		No. of Rly. Employees to whom issued	No. of Sets Available	No. of persons included	No. of Rly. Employees to whom issued	No. of Sets Available	No. of persons included
I Class 'A'	Group 'A'	578	2342	10464	538	6212	5495
..	Group 'B'	524	2810	11077	518	1866	5854
I Class	Group 'C'	29257	57447	76899	18733	35905	39002
II Class	Group 'C'	46603	129945	190534	34719	70510	72511
III AC	Group 'C'	1360	1520	1590	1640	25738	125818
II Class	Group 'D'	38839	190660	167417	25538	25723	88845

4.4 (a) (i) Appointments in Group 'C' and Group 'D' categories for the year 2012-13.

	Group 'C'	No. indented	No. supplied
1. Technical ..	..	1753	1098
2. Non-Technical ..	..	442	442
3. NTPC ..	..	631	..

4.4 (a) (ii) Recruitment of non-gazetted staff for the year 2011-12 and 2012-13 are as under :—

Year	Group 'C'	Group 'D'	Total
2011-2012	2133	3043	5176
2012-2013	6666	126	6792

4.4 (b) (iii) Number of persons appointed against physically handicapped quota and on Compassionate grounds for the year 2012-13.

	Group 'C'	Group 'D'
a) No. of Physically Handicapped persons appointed.	..	..
b) No. of persons appointed on Compassionate grounds.	589	41

Note.—Indents were placed with RRBs and RRC for Gr. 'C' & 'D' post respectively. The recruitment is under process.

4.5. Training - Group 'C' Staff :

Sl. Nos.	Branch	Initial	Refresher	Promotional	Special	Total
1.	Mechanical	3490	1385	380	7220	12425
2.	Electrical	878	1300	355	680	3543
3.	Engineering	1600	3110	140	950	5800
4.	S&T	240	340	102	535	1217
5.	Traffic & Comm.	2220	5430	960	5225	6835
6.	Personnel	—	—	—	—	—
	Total	6408	10565	1997	9910	38880

5. RELATIONS WITH LAE

Industrial relations play an important role in improving productivity. Industries pay much attention to industrial relation. The level viz. AIRF & NFIF (a constituent of AIRF).

There are Permanent Functioning at three tiers Divisional/Extra Divisional conducted regularly and the table after mutual best satisfaction of the Administration. Basic meetings are held to sort out the various day-to-day issues. Apart from this, Organized Labour and the various day-to-day issues. Apart from this, Organized Labour and the various day-to-day issues.

6. IMPLEMENTATION OF

Provisions of all Lab. Hours of Work and pe Wages Act, Trade Un Industrial Disputes Act implemented to the sat the deficiencies point Regional Labour C Commissioner and La concerned.

7. LABOUR WELFARE

The Welfare Organ Inspectors headed t Divisional Personnel C and Senior Personnel employees and rend their grievances .

Staff Information C and at Major Station assistance to staff c These centres have t staff. Staff & Welfare nominated exclusive sensitive categories periodically at nomir

Pension Adalats conducted every respectively to re employees. Preel once in three/four n on superannuation

“Social Security” by Railways for the employees. A non employee, who is al so collected is utili assistance to the h time of employee's. The scheme is m Officers and the m Divisional and Head the benefits to the on superannuation/ with a 'Wrist Watc

ital role in any industry for railways being one of the major on for maintaining cordial 2 recognised federations at them Railway Mazdoor Union cognized Union at Zonal level.

gatiating Machinery (PNM) railway Board, Zonal level and el. The PNM meetings are oblems are sorted out across ations with each other to the e Organized Labour and the NM meetings, Joint/Special he various day-to-day issues. our are having their members benefit Committee, Housing mmittee, Hospital Visiting

OUR LAWS :

ws pertaining to Railways viz., Rest Rules 2005, Payment of Workmen Compensation Act, Minimum Wages Act are being y level duly taking into account by the various agencies like ssioner, Assistant Labour nforcement Officers / Inspectors

consisting of Staff & Welfare Divisional Personnel Officers, s. Workshop Personnel Officers s maintain regular contacts with stance to staff in redressal of

at all Divisional Headquarters Sheds provide information and Personnel and Welfare matters . und to be of immense help to the tors have also been attend to the grievances of the ff . Grievance Adalats are held ations.

Mid-term Pension Adalats are mid December and mid July the grievances of the retired nt counselling is also arranged to guide the employees retiring

“e” is a Welfare scheme introduced of Group 'C' and Group 'D' amount is collected from every er of this scheme and the amount death relief i.e. to give financial the deceased employees at the This is purely a voluntary scheme. d by a committee consisting of s of the Organized Labour at the rs level. The scheme also extends es at the time of their retirement ary retirement duly presenting them an 'Executive folder'.

There are **Fifteen** Rail Kalyana Mandapams existing in this railway. A nominal and affordable rent is being charged to the serving employees to hold various functions like Marriage, Wedding Reception, etc.

(ii) RAILWAY SCHOOLS

There are Nine Railway Schools (i.e., four Higher Secondary Schools and five High Schools) in English medium situated in the Territorial jurisdiction of this Zone, spread (fully/partially) over TamilNadu and Kerala States, to extend educational facilities mainly to the wards of Railway Employees.

About **4128** children had studied in the Railway Schools during the year 2012-2013.

(iii) SUBSIDISED HOSTELS:

Subsequent to Budget announcement (2010-2011) by Hon'ble MR, Hostel facilities to wards of Railway employees prosecuting higher education have been made available at Chennai and Trivandrum with effect from 15/06/2011, by roping in the services rendered by private agencies. The above facilities are thrown open to wards of Railway employees of S.E. Rly., N.Rly., Central Rly, N.W. Rly, W.C. Rly and Western Railway.

(iv) STAFF BENEFIT FUND:

(A) EDUCATIONAL FACILITIES:

1. Professional / Technical Educational Assistance:

5600 (FIVE thousand six hundred only) wards of Railway Employees have been granted scholarship for prosecuting Professional / Technical education during 2012-2013. The total expenditure incurred in respect thereof from the Central Staff Benefit Fund is as under:

DEGREE Courses : 5600 x ₹ 2400 = ₹ 1,34,40,000
(Rupees One crore thirty four lakhs forty thousand only)

DIPLOMA Courses : Yet to be granted

(ii) Scholarship for Higher Education of Girl/ Male Children of Group 'D' in Grade Pay ₹ 1800/- & below, ₹ 1900/- ₹ 2000/- & ₹ 2400/- on MACP:

An amount of ₹ 1200/-p.m. per girl child and ₹ 1000/-p.m. per male child of the Railway Employees in Grade Pay of ₹ 1800/- & below and ₹ 1900/- ₹ 2000/- & ₹ 2400/- on MACP have been granted under this head. 1420 Girl children and 1244 Male children were benefited by this Scholarship as detailed under.

Girl Children : 1420 x ₹ 14400 = ₹ 2,04,48,000/-

Male Children : 1244 x ₹ 12000 = ₹ 1,49,28,000/-
₹ 3,53,76,000/-

(vi) RECREATION AND AMUSEMENT:

(1) Holiday Camps:

Holiday camps for Men / Women employees as well as Children of the employees are being conducted regularly in this Railway under the auspices of Central Staff Benefit Fund. Details of holiday camps conducted are as under :-

DIVISION	HOLIDAY CAMP CONDUCTED DURING 2012-2013	No. of PARTICIPANTS	AMOUNT SPENT ₹	PLACES VISITED
HQ	Male Employee's Camp	45	1,25,638/-	Wyanad & Pollachi
LW/PER	Employee's Camp	65	74,311/-	Madurai & Kodaikannal
PGT	Employee's Camp	82	1,20,000/- (Approx)	Alappuzha, Ernakulam
	Employee's Camp	88	1,20,000/-	Wyanad area

(iii) Cash award to Meritorious Students:

Five students of X Std / XII Std were granted Cash award of ₹ 20,000/- each (5 x ₹ 20000 = ₹ 1,00,000/-) for securing ranks between 1 to 10 at State level during 2012-2013. Also, **three** College students were granted cash award of ₹ 9,000 for securing first, second and third rank at University level as detailed below.

1 st rank ₹ 5000 x 1 student	=	₹ 5,000/-
2 nd rank ₹ 3000 x 1 student	=	₹ 2,000/-
3 rd rank ₹ 2000 x 1 student	=	₹ 2,000/-
Total	=	₹ 9,000/-

(iv) Book Bank:

Under the auspices of CSBF, the Southern Railway Book Banks have become very popular.

Altogether **seven** Book Banks are functioning at Hqrs, TPJ, MDU, PGT, TVC, PTJ and SA. These Book Banks cater to the needs of students, who are wards of Railway employees studying Professional/Technical courses.

A sum **₹ 8,00,000/-** (Rupees Eight Lakhs only) has been sanctioned towards grant for Book Banks during the year 2012-2013.

(v) (B) Schemes of Benefits to the Sick:

1) Financial Assistance for 'Relief of Distress/Sickness & GP Rs.1800/- and below.

A total amount of **₹ 14,38,662/-** (Rupees Fourteen lakhs thirty eight thousand six hundred and sixty two only) was sanctioned to **thirty one** employees seeking financial assistance under this head during the year 2012-2013 apart from the following expenditures :-

Honorarium to Barber @ RH / PER	-	₹ 24,000/-
Honorarium to HIV/AIDS Consultant @ RH/PER & Honorarium to Lab Technician @ RH/PER.	-	₹ 7,78,950/-
Provision of Light refreshment to Blood Donors at RH/PER.	-	₹ 3,60,000/-
Funeral expenses to the families of serving employees who had expired in RH/PER.	-	₹ 4,90,000/-
Special cash incentive for Vasectomy Sterilization.	-	₹ 69,000/-

2 Indigenous system of medicine:

Headquarters Office/NGO/MAS	-	Homoeopathic Dispensary
Ayanavaram/MAS	-	Homoeopathic Dispensary
Madurai Dn.	-	Homoeopathic Dispensary
Palakkad Dn. (PGT)	-	Homoeopathic Dispensary
Tiruchchirapalli Dn. (TPJ)	-	Homoeopathic Dispensary
Golden Rock Workshop (GOC)	-	Homoeopathic Dispensary
Podanur Workshop (PTJ)	-	Homoeopathic Dispensary
Shoranur (Palakkad Dn.) (SRR)	-	Ayurvedhic Dispensary
Cannanore (Palakkad Dn.) (CAN)	-	Ayurvedhic Dispensary

Details of Holiday Camps conducted during the year 2012-13 have not been received from the Sub-committees.

3. Promotion of Cultural activity

(a) Expenditure towards Inter Railway Culture Competition.	₹	70,075
(b) Expenditure towards Cultural activities at HQ/ Division	₹	3,50,000
(c) Expenditure towards Promotion of Cultural Activities at Rly. Schools is	₹	3,50,000

4. Southern Railway Cultural Association

Southern Railway Cultural Association (SRCA)—has been formed during September 2010 under the Chairmanship of CAO/CN& MTP/MS to promote cultural activities in Southern Railway. Various programmes to show case the talents of Railway employees and their wards in classical and folk dance, light & Classical music have been organized by the SRCA during the year 2012-2013.

5. Women empowerment activities including Higher education for girls.

- (a) Expenditure towards women empowerment at HQ/ Divisions/Other Units ₹ 7,00,000/-
- (b) Distribution of Induction stoves to Group D Women employees over Southern Railways expenditure incurred in 2012-13 ₹ 19,18,333/-
- (c) Expenditure towards Higher education of girl children of staff in GP ₹ 18,00 and below ₹ 21,54,315/-
- (d) An amount of ₹ 1,00,000/- has been allotted for women's dress changing room.
- (e) An amount of ₹ 35,000/- has been allotted for Creches.
- (f) An amount of ₹ 1,05,932/- has been allotted for hostel for women.

7. (IV) (D) Miscellaneous :

An amount of ₹ 3,72,871/- has been spent towards miscellaneous activities at HQrs.

Salient features of Southern Railway Women's Welfare Organisation (SRWWO)

1. Ashraya:

A School for mentally challenged wards of Railway men and outsiders is being run by the Southern Railway Women's Welfare Organization (Headquarters) Chennai. There are 35 Children on roll with varying degrees of IQ who are trained in academics and vocation. Computer education is also imparted to the students. The students are provided with all necessary physiotherapy equipments. "Early Intervention"

for the age group from 3 years onwards has been started to impart basic skills to the children. The school is run by Southern Railway Tiruchchirappalli (Udaya) Organization/Madurai (AK)

2. Welfare:

A Creche named "Blossom" at Perambur for the benefit of

3. Shop:

A retail shop with name "Railway Hospital, Perambur" for inpatients and their families.

4. Other Activities:

Tiruchchirappalli and Palakkad Divisions have schools up to 10th Standard and Trivandrum are run by the

Handicraft Centers for men are functioning at Chennai and Madurai Divisions.

8.1 RAILWAYMEN'S CO-OPERATIVE AND FAIR PRICE SHOPS

There are 17 registered Co-operative Stores available in Southern Railway. Out of these 13 Stores are functioning well, and the remaining 4 are not availing this facility (the latter are controlled by the Railway).

8.2 RAILWAYMEN'S CO-OPERATIVE CREDIT SOCIETIES AND BANKS

There are two Co-operative Credit Societies/Banks available in Southern Railway. One at Tiruchchirappalli, with 1,00,000 members and the other at Palakkad, with 72,000 members. Out of these 1,17,000 members are availing the facilities of these Co-operative Credit Societies. However, these Co-operative Credit Societies are not being controlled by Southern Railway.

Due to Union Election, the Societies have not been fully utilized. Balance of ₹ 1,00,000/- is retained under DMR.

SPORTS ACTIVITIES:-

ACHIEVEMENT OF SOUTHERN RAILWAY WOMEN'S WELFARE ASSOCIATION IN THE ALL INDIA RAILWAY CHAMPIONSHIPS

Southern Railway performed well in the year 2012-13. We have secured the overall 1st place in the Kaul Gold Cup Points Games at the All India Railway Championships.

inwards has been started to impart basic skills to the children. The school is run by Southern Railway Tiruchchirappalli (Udaya) Organization/Madurai (AK)

' with strength of 26 is run at Perambur for the benefit of the parents.

"vabhiman" was opened at Perambur to cater to the needs of the inpatients and their families.

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SOUTHERN RAILWAY SPORTS WOMEN'S WELFARE ASSOCIATION IN THE ALL INDIA RAILWAY CHAMPIONSHIPS

Southern Railway performed well in the year 2012-13. We have secured the overall 1st place in the Kaul Gold Cup Points Games at the All India Railway Championships.

ACHIEVEMENTS OF SOUTHERN RAILWAY SPORTS PERSONS IN THE NATIONAL / INTERNATIONAL MEETS.

Athletics:- Ms. Tintu Luka from our Railway is representing the country at the London Olympics.

Basket Ball :-Geethu Anna Jose and Anitha represented India at the Beach Basket Ball Championships at China in July 2012. Geethu Anna Jose, Kokila, Apoorva Muralinath and Anitha represented India at the William Jones Cup for Women at Taiwan in July 2012.

Chess:- Ratnakaran represented Indian Railways at the World Railway Chess Championships at Bulgaria and won the Silver.

Cricket :-Niranjana from our Railway was a part of the Indian team touring England.

Volley Ball :- Women Mini Mol represented India at Beach Volley Ball in China in May 2012.

Weight Lifting :-Sri Sathish Kumar, represented India at the 43rd men Sr. Asian Weightlifting Championships at Pveongtaek, Korea from 22-30 April 2012. He along with Sunil Kumar represented at the Common Wealth Weightlifting Championships at Apia. Samoa from 4-9th June 2012 where Sathish won the Gold in the 77kg. and Sunil won the Gold in 69kg. Sathish Kumar was selected for 1st South Asain Men and Women Championships at Nepal in March 2012 where he won the Gold in 77 kg.

VI. JOINT COUNCILS:

In compliance with the Board's directives, Joint Councils consisting of representatives of the Administration and (Group 'C' and Group 'D') staff were set up in various Work Shops on this Railways. These Councils have been constituted to discuss the matter regarding.

- (i) Ways and means of enhancing productivity.
- (ii) Procurement of essential additional machinery and plant.
- (iii) Optimum utilization of existing staff and machinery.
- (iv) Advance procurement of stores.
- (v) Maintenance of Machinery and Plant.
- (vi) Preventive maintenance and its importance.
- (vii) Follow -up action taken for all these subjects.

Active interest has been shown by the representatives in the functioning of these councils and this has helped in efficient working and finding solutions to day-to-day problems.

9. Provision of Staff Quarters :

Provision of Staff Quarters		Programmed Quarters No. of Quarters completed				Quarters involved in schemes, new lines, doubling etc. No. of quarters completed					
Sl.Nos.	Type of Qtrs.	2011-2012 No. of units	2011-2012 Approximate cost (₹ in lakhs)	2012-2013 No. of quarters completed	2012-2013 Approximate cost (₹ in lakhs)	2011-2012 No. of units under various stages of construction as on 31st March-2013	2011-2012 Approximate cost (₹ in lakhs)	2012-2013 No. of quarters completed	2012-2013 Approximate cost (₹ in lakhs)	Total No. of quarters provided upto 31st March, 2013, including quarters involved in schemes, new lines-doubling, etc;	
1.	Type I	0	0	99	495.6	0	0	0	0	0	1871
2.	Type II	322	2467.34	285	2269.42	484	12	84	5	35.80	1060
3.	Type III	50	451.27	77	860.29	86	2	16	2.8	74.02	269
4.	Type IV	17	204.00	14.20	4013.97	6	0	0	0.2	33.73	80
5.	Type IV (Special)	0	0.00	0	0.00	0	0	0	0	0.00	0
6.	Type V	0	0.00	2	84.00	2	0	0	0	0.00	30
7.	Barracks	1	75.00	0	0	0	0	0	0	0.00	0

II. Improvements to old type quarters have been carried out during the year 2012-2013 at an estimated cost 972.97 Lakhs.

(ii) The position regarding quarters for Class III and Class IV as indicated below.—

Sl. No.	Category	No. of staff Qrs. as on 31st March 2012		No. of Staff Quarters available as 31st March 2012
		Essential	Non-Essential	
1.	Class III	46770	33024	Type I = 15,
2.	Class IV	5986	3840	Type II = 10,
				Type III = 2,
				Type IV = 1,
				Type V = 1,
Total		52,756	36,864	30,

10. Additional information of staff strength required to be incorporated vide E dated 5th June 1986 is given as under :

Group 'C'		Group 'D'	
1. Signal & Telecommunication Department			(c) Construction
(i) Signal	183	..	(i) Railway Electrification
(ii) Tele-communication	133	..	(ii) Organization
(iii) Microwave	127	2	
2. Civil Engineering Department			4. Commercial
(i) Civil Engineering Permanent Way	354	..	(i) Commercial Clerks
(ii) Civil Engineering Works	382	..	(ii) Ticket Checking Staff
(iii) Civil Engineering Bridges	39	..	(iii) Catering Staff
(iv) Civil Engineering Workshop	..	..	
3. Electrical Department			5. Operating
(a) Workshop & production Units			(i) Train Clerks
(i) EMUs	1,508	117	(ii) Guards
(ii) Others	1,504	313	(iii) Traffic Signallers
(iii) Electric Loco	..	..	(iv) Shunting Staff
(b) Open Line			(v) Yard Staff
(i) Electrical Loco Shed	1,403	290	(vi) Others
(ii) EMU Shed	..	..	
(iii) Rolling Stock Operation	2,603	..	6. Mechanical
(iv) Traction Distribution	1,123	827	Workshops & Production
(v) General Services	2,760	1,646	(i) Steam Locos
			(ii) Diesel Locos
			(iii) Carriage & Wagon
			(iv) AC Loco
			(v) Other activities

s letter No. 86/Stat./1/5

Group 'C' Group 'D'

241 41 (37 + 4Sub.)
82 20

2,529 ..
2,927 ..
10 ..

375 ..
1,437 ..
.. ..
5,956 ..
.. ..
.. ..

.. ..
163 ..
18 ..
.. ..
152 31



XIII. यात्रियों को सुख-सुविधाएं/AMENITIES FOR PASSENGERS

1. Permanent Augmentation during the Financial year 2012-13.

Month	Train No. & Description	Notifi- cation dated	With effect from	ACCW	ACCN	GSCN	GS	GSCZ	TOTAL	No. of Rakes	Net coaches
April	22601/22602 MAS-SNSI Exp.	19- 4-12	9- 5-12	..	1	1	..	..	2	1	2
	56640/56641 MAQ-MAO Passr.	19- 4-12	30- 4-12	..	..	..	..	6	6	1	6
	12656/12655 MAS-ADI Exp.& 12673/12674 MAS-CBE Exp.	24- 4-12	27- 4-12	..	..	1	..	..	1	5	5
May	Nil										
June	16611/16612 NCJ-TN Link Exp.	4- 6-12	11- 6-12	..	..	1	..	..	1	2	2
	12671/12672 MAS-MTP Exp.	18- 6-12	30- 6-12	..	..	1	..	..	1	2	2
	12615/12616 MAS-NDLS Exp.	18- 6-12	30- 6-12	..	..	1	..	..	1	4	4
	56725, 56722, 56723, 56726, 56706, 56705, 56710, 56709, 56721, 56724 Passr. ..	18- 6-12	30- 6-12	..	..	..	2	..	2	4	8
	July	Nil									
Aug.	12671/12672 MAS-MTP Exp.	30- 8-12	30-12-12	..	1	..	..	..	1	2	2
Sep.	12661/12662 MS-SCT Exp... ..	12- 9-12	20- 9-12	..	1	1	..	..	2	2	4
	56654, 56657, 56652, 56653, 56659, 56661, 56656, 56650, 56651, 56655..	12- 9-12	15- 9-12	..	..	..	1	..	1	5	5
	16127/16128 MS-GUV Exp.	18- 9-12	20- 9-12	..	..	..	..	1	1	2	2
	12635/12636 MS-MDU Exp.& 12605/12606 MS-TPJ Exp.	26- 9-12	27- 9-12	..	..	..	..	1	1	2	2
	12679/12680 MAS-CBE Exp.	26- 9-12	27- 9-12	..	..	..	..	1	1	1	1
	22601/22602 MAS-SNSI Exp.	26- 9-12	3-10-12	..	1	..	..	..	1	1	1
	16733/16734 RMM-OKHA Exp.	28- 9-12	5-10-12	..	..	1	..	..	1	1	1
	12651/12652 MDU-NZM Exp. & 22623/22624 MS-MDU Exp.	28- 9-12	1-10-12	..	..	1	..	..	1	2	2
	12641/12642 CAPE-NZM Exp.	28- 9-12	3-10-12	..	1	1	..	..	2	1	2
	12645/12646 ERS-NZM Exp.	28- 9-12	29- 9-12	..	..	2	..	..	2	1	2
Oct.	16853/16854 MS-TPJ Exp. & 16107/16108 MAS-MAQ Exp.	8-10-12	9-10-12	..	..	..	..	3	3	4	12
	12617/12618 ERS-NZM Exp.	9-10-12	12-10-12	..	1	..	..	..	1	6	6
	16031/16032 MAS-JAT Exp. & 16093/16094 MAS-LJN Exp.	9-10-12	10-10-12	..	..	1	..	..	1	4	4
	16733/16734 RMM-OKHA Exp.	9-10-12	12-10-12	..	..	1	..	..	1	1	1
	22620/22619 TEN-BSP Exp... ..	9-10-12	14-10-12	..	..	1	..	..	1	1	1
	16779/16780 TPTY-RMM Exp.	9-10-12	11-10-12	..	..	1	..	..	1	1	1
	16723/16724 MS-TVC-MS Exp.	31-10-12	15-11-12	..	1	1	..	..	2	2	4
Nov.	Nil										
Dec.	16127/16128 MS-GUV Exp... ..	10-12-12	28- 3-13	..	..	..	..	4	4	2	8
Feb.	16341/16342 GUV-TVC Exp.	14- 2-13	15- 2-13	..	..	..	..	1	1	1	1
Mar.	16723/16724 MS-TVC-MS Exp.	11- 3-13	14- 3-13	1	..	..	..	..	1	2	2
	16057/16058 MAS-TPTY Exp. & 16053/16054 MAS-TPTY Exp.	11- 3-13	14- 3-13	..	..	..	3	3	6	1	6
	16605/16606 MAQ-NCJ Exp. & 22609/22610 MAQ-CBE I/C Exp.	11- 3-13	14- 3-13	..	..	..	1	..	1	4	4
Type-wise break-up : 2 ACCW, 15 ACCN, 31 GSCN, 35 GSCZ, 20 GS = 103										103	

Permanent and Temporary Augmentation of coaches - Month-wise

Month	Permanent augmentation		Temporary augmentation	
	2011-12	2012-13	2011-12	2012-13
Apr. ..	17	13	793	335
Cum. ..	17	13	793	335
May ..	1	0	1145	683
Cum. ..	18	13	1938	1018
June ..	0	16	824	363
Cum. ..	18	29	2762	1381
July ..	26	0	885	290
Cum. ..	44	29	3647	1671
Aug. ..	0	2	716	515
Cum. ..	44	31	4363	2186
Sep. ..	0	22	513	783
Cum. ..	44	53	4876	2969
Oct. ..	0	29	454	924
Cum. ..	44	82	5330	3893
Nov. ..	0	0	545	942
Cum. ..	44	82	5875	4835
Dec. ..	11	8	629	931
Cum. ..	55	90	6504	5766
Jan. ..	25	0	684	665
Cum. ..	80	90	7188	6431
Feb. ..	22	1	419	573
Cum. ..	102	91	7607	7004
Mar. ..	21	12	239	..
Total ..	123	103	7846	7004

2. Drinking Water Arrangements

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
---------	-----------	--------------	-------------------------------

(A) Works Completed**(i) Works costing more than ₹ 5 lakhs each :-**

1. MAS	..	Nil.	
2. SA	..	(1) PTJ-Constructions of OHT 90000 lits. capacity and replacement of pipeline grid at 20 block area.	49.50
		(2) TUP-Constructions of OHT 45000 lits. capacity including pipeline arrangements from well to good shed area (id. 1849/08-09/CE/OL).	45.00
		(3) CBE Jn.-Provision of reverse osmosis plant for providing drinking water to passenger.	29.00
		(4) PTJ-S&T workshop-Installation of reverse osmosis plant.	8.00
3. PGT	..	PGT Dn. Provision of purified drinking water to stations through water treatment system.	48.00
4. TVC	..	(1) NCJ-Proposed water hydrant in Road No. 1.	17.72
		(2) TVC and TVP. Supply of potable drinking water.	14.64
5. TPJ	..	Nil	
6. MDU	..	Nil	
7. CE/CNERS	..	Nil	
8. CE/CNMS	..	Nil	
9. MTP	..	Nil	

(ii) Works costing less than ₹ 5 lakhs each :-

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

(B) Works in Progress**(i) Works costing more than ₹ 5 lakhs each :-**

1. MAS	..	(1) Addition of MW RCC OHT 2 lakhs capacity at Winterpet place of the existing tank.	2978.00
		(2) Replacement of this existing tank over steel staging tank of capacity 1.80 lakhs.	4603.00
2. SA	..	Provision of drinking water facilities at good shed, IGU, PTJ, Staff Quarters (400 Nos.) augmentation of water supply and pipeline arrangements (id.1359/08-09)	50.00
3. PGT	..	Provision of bore wells, along with pump arrangements and distribution system at Railway tal colony.	49.00
4. TVC	..	Nil	
5. TPJ	..	VM-T provision of 200 mm d line provision of 200 mm d well at 17 Nos. in LCs.	6.00
		VM-F provision of borewell with pumps and sintex tank for all manned LCs in between TLNR (LC No. 127, 128, 144, 152, 152A, 153, 157, & 170 in SE/P/AVRI Sec.	10.00
6. MDU	..	(a) K Augm Borewell 2 Nos. of pipeline.	9.20
7. CE/CNERS	..	Nil	
8. CE/CNMS	..	MDU Provision of borewell and water supply for LC and VM-VPT sections.	14.444
9. MTP	..	Nil	

(ii) Works costing less than ₹ 5 lakhs each :-

1. MAS	..	Nil	
2. SA	..	Nil	
3. PGT	..	Nil	
4. TVC	..	Nil	
5. TPJ	..	Nil	
6. MDU	..	PDKT - Good drinking water.	3.32
7. CE/CNERS	..	Nil	
8. CE/CNMS	..	(1/TBM MLMR, PEI-MYP CGL-works.	4.00
9. MTP	..	Nil	

Drinking Water Arrangements Taps/Hand Pumps/Water Huts Provided

Division		Taps available during 2011-12	Taps available during 2012-13	Taps provided during 2012-13
MAS		2,174	2,162	0
TPJ		1,295	1,423	128
MDU		1,889	1,913	24
SA		643	698	55
PGT		993	987	0
TVC		1,352	1,384	32
Total		8,346	8,567	239

Water Coolers Provided

Division		Coolers available during 2011-12	Coolers available during 2012-13	Coolers Provided during 2012-13
MAS		137	136	0
TPJ		33	42	9
MDU		54	56	2
SA		22	22	0
PGT		48	47	0
TVC		53	54	1
Total		347	357	12

3. Details of Passenger Amenity Works over Southern Railway during 2012-13.

1. During the year 2012-13, 8 passenger amenity works costing ₹ 12.99 crores were completed.

During the current year 2013-14 totally 116 passenger amenity works costing ₹ 364 crores are in various stages of progress. Out of these 116 works, 98 works are in progress and 18 works are sanctioned during the year.

During 2012-13, the Budget grant was ₹ 51.68 crores and revised grant sanctioned is ₹ 69.86 whereas actually spent amount was ₹ 71.61 crores which is 103% of RG.

In the current year 2013-14 BG for PA is ₹ 84.93 Crores.

4. Catering :**Departmental Catering at Stations**

Departmental catering units are functioning at the following stations under the Control of Railways :—

GMR—21

Jan Ahar/Jan Ahar Outlets

- Chennai Central
- Kanniyakumari
- Erode

5. Departmental Mobile Catering Units on Trains :

Departmental mobile catering units under the control of Railways :—

12081/12082 Jan Shatabdi Exp. TVC-CLT Weekly

Departmental mobile catering units under the control of IRCTC :—

- 12243/44 Duronto Exp. MAS-CBE 6 days in a week
- 12269/70 Duronto Exp. MAS-NDLS Bi-Weekly
- 12641/42 Thirukural Exp. CAPE-NZM Bi-Weekly
- 12625/26 Kerala Exp. TVC-NDLS Daily
- 22207/08 Duronto Exp. MAS-TVC Bi-Weekly

(6) Contract Catering :

Contract operated catering units under the control of Railways.

1. 12007/12008 MAS-MYS Shatabdi Exp. 6 days in a week
2. 12077/12078 MAS-BZA .. Except Tuesday Jan Shatabdi Exp
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 Nethravathi 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 Weekly Ahilyanagari Exp.
18. 16317/16318 CAPE-JAT Himsagar Exp. Weekly
19. 12665/12666 CAPE-HWH Exp. Weekly
20. 16351/16352 NCJ-TPTY Exp. Bi-weekly
- 16353/16354 TPTY-CSTM Exp. Bi-weekly
21. 16359/16360 ERS-PNBE Exp. Weekly
22. 12663/12664 TPJ-HWH Exp. Bi-weekly
23. 16127/16128 MS-GUV Exp. Daily
24. 12679/12680 CBE-MAS Intercity Exp. Daily
25. 12687/12688 MAS-DDN Exp. Weekly
26. 16311/16312 TVC-BKN Exp. Daily
27. 12651/12652 MDU-NZM Bi-weekly Sampark Kranti Exp.
28. 16733/16734 RMM-Okha Exp. Weekly
29. 12655/12656 MAS-ADI Navajeevan Exp. Daily
30. 16687/16688 MAQ-JAT Navayug Exp. Weekly
31. 16381/16382 CAPE-CSTM Exp. Daily
32. 12621/12622 Tamil Nadu Exp. Daily
33. 16333/16334 TVC-VRL Exp. Weekly
34. 12615/12616 MAS-NDLS Grand Trunk Express. Daily
35. 12639-12640 MAS-SBC Brindavan Exp. Daily
36. 12605/12606 MS-TPJ Pallavan Exp. Daily
37. 12635/12636 MS-MDU Vaigai Exp. Daily
38. 16649-16650 TVC-MAQ Daily Parasuram Exp.
39. 16301-16302 TVC-SRR Venad Exp. Daily
40. 12669-12670 MAS-CHAPRA GK Exp. Weekly

Train-side vending contracts are also provided in 22 Mail/Express trains which do not have pantry car.

7 Food Plazas : Food Plazas are functioning at the following stations in Southern Railway under the control of IRCTC :—

1. Chennai Central
2. Chennai Egmore
3. Madurai
4. Ernakulam North
5. Ernakulam Jn.
6. Tiruchchirappalli Jn.
7. Shoranur
8. Chennai Beach
9. Trichur

8 Fast Food Units : Fast Food Units are functioning at the following stations in Southern Railway under the control of IRCTC :—

1. Arakkonam
2. Ambur
3. Jolarpettai

Division-wise catering units under the control of IRCTC :

Sl. No.	Unit	MAS
1	Cell kitchens	3
2	Refreshment rooms at A1, A stations.	3
3	Refreshment rooms at B, C stations.	..
4	Refreshment rooms at D, E, F stations.	..
5	Small catering units at A1, A, B, C stations.	..
6	Other Small catering units at A1, A,B,C stations.	74
7	Other Small catering units at D, E, F stations.	4
8	Milk stalls	19
9	AVMs	27
10	Medicine Shops	..
11	Book stall	2
12	Misc. stall/ Handloom/ Handicrafts stall	..
13	HPMC	1
14	Any other stall	..
	Total	14

Licencee fee realized :

Type of Unit
Mobile units (Licencee)
Mobile units (Department)
Mobile units (Licencee)
Mobile units (Department)
Railway's share from IRCTC

are functioning at the following stations as indicated below under the control of IRCTC :—

1. Chennai Park
2. Trivandrum
3. Coimbatore
4. Katpadi
5. Palakkad
6. Calicut
7. Mangalore
8. Kannur
9. Erode

9 Fast Food Units : Fast Food Units are functioning at the following stations in Southern Railway under the control of IRCTC :—

1. Tirur
2. Calicut
3. Chennai Central

Division-wise catering units under the control of IRCTC :

MDU	TVC	PGT	SA	Total
1	1	..	1	7
3	7	5	4	25
5	..	2	1	10
6	..	..	1	8
..	..	..	..	..
40	68	85	40	357
23	18	18	7	91
13	24	29	7	99
1	7	13	30	80
1	..	..	..	1
6	16	11	..	40
3	7	21	1	55
1	19	3	..	34
..	..	1	3	4
113	167	188	95	811

10 Licencees :

2010-11 (in lakhs)	2011-12 (in lakhs)	2012-13 (in lakhs)
391.00	1476.68	1162.62
..	56.50	52.95
572.93	1412.44	1803.62
..	110.74	254.13
316.16	41.40	..

9 Cheap Food Packets

Sale of Economy/Janata food packets on this Railway is being done in departmentally managed three Jan Ahars at Chennai Central, Kanniyakumari & Erode (stall). The details of low cost food sold over this Railway are as below :—

1. No. of Janata Meals sold	..	12,85,725
2. No. of other low cost cuisine sold	..	30,36,094
3. No. of standard meals sold	..	36,36,370

10 Catering Supervisory Committee

Catering Monitoring cell is functioning at Headquarters and Divisions.

A toll free No. 1800-111-321 is functioning at catering Complaints Monitoring Cell (CCMC) at Railway Board and Complaints received from CCMC/RB is forwarded to Southern Railway for immediate action. Feedback on action is sent to CCMC/RB on daily basis.

10. Details of Amenities provided during the Year 2012-13

Sl. No.	Description of Amenity	Unit	Amenities MAS Divn.		Amenities SA Divn.		Amenities PGT Divn.		Amenities TVC Divn.		Amenities TPJ Divn.		Amenities MDU Divn.		Amenities CE/CN/ERS		Amenities CE/CN/MS		Total Expenditure (in thousands of ₹)
			Provided during the year 2012-13	Expenditure in thousands of ₹	Provided during the year 2012-13	Expenditure in thousands of ₹	Provided during the year 2012-13	Expenditure in thousands of ₹	Provided during the year 2012-13	Expenditure in thousands of ₹	Provided during the year 2012-13	Expenditure in thousands of ₹	Provided during the year 2012-13	Expenditure in thousands of ₹	Provided during the year 2012-13	Expenditure in thousands of ₹	Provided during the year 2012-13	Expenditure in thousands of ₹	
1	Waiting hall	Sq. m.	10000	..	225	4050	..	..	..	..	..	..	668.07	4116.44	..	..	245	2500	..
2	Seating arrangements	Nos.	1000	..	1256	18840	..	..	..	..	..	..	468	..	..	..	174	1184.83	..
3	Covering platforms	Sq. m.	6600	4146	9901	72500	..	..	..	..	..	..	3148	2300	..	..	872	4438.00	..
4	Drinking water arrangements																		
	1. Hand pumps	Nos.	500	72	..	..	..	..	..	..	..	..	3	300	..	..	8	50.00	..
	2. Taps	Nos.	2	38	41	10.25	..	..	..	..	30	210	116	..	..	..	30	1444.43	..
5	Foot over bridge	Sq. m.	..	..	1	542	4	7524	..	..	..	..	1	..	..	..	6	225000	..
6	Waiting rooms	Sq. m.	..	..	..	..	..	..	..	..	..	..	106	..	..	..	..	..	..
7	Suitable platform including raising	Nos.	4000	..	15876	43470	497.94	..	..	..	..	..	35405	2500	..	..	25100	50794	..
8	Booking windows-cum-reservation counter.	Nos.	..	..	1	3200	1	4974	..	..	1142	4200	3	..	..	..	..	..	..
9	Sanitised latrines	Nos.	..	..	12	1500	..	..	..	..	..	..	32	2962.93	..	..	3	1300	..
10	Waiting-cum-booking office	Nos.	..	..	..	..	1	..	..	..	..	..	3	..	..	..	231.47	4629	..
11	Retiring rooms	Sq. m.	..	..	..	..	1	..	..	..	..	..	11	3581	..	..	..	..	..
12	Enquiry counters	Nos.	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
	Total		22102	4156	130146	757486.95	501.94	12566	..	..	1172	4410	9164	39964.07	..	..	26669.5	304790.26	..

12. Passenger Amenity Works during 2012-13

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)	Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
(I) Works Completed				(I) Works Completed			
1.	MAS	MS-Improvement to passenger amenity and beautification: Chennai Division-SPE-GPD section and TRL- AJJ section/ Extension of platform for accommodating 12 CAR EMUs. Chennai Division-Elimination of deficiencies in minimum essential passenger amenities at various station Phase II	660.00 333.18 259.96	2.	SA	PODANUR Jn.-Provision of PF shelter for 4 bays' length each on PF 1 (id : 1937/LAW 07-08) CE/OL. PODANUR Jn.-New booking complex with PRS and parcel office (id : 1935/LAW 07-08) CE/OL. MAGUDAMCHAVADI & VEERAPANDI ROAD- Provision of PF shelter for 2 bays' length each on PF-1 (id : 1924/LAW 07-08) CE/OL.	44.00 50.00 42.00

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
(I) Works Completed			
2.	SA	Coimbatore Jn.-Provision of adl. PF shelters at island PF 3 & 4 for 5 bays.	48.00
		Coimbatore Jn.-Provision of adl. PF shelters at island PF 1 & 2 for 2 bays.	38.00
		Coimbatore Jn.-CC apron on platform No. 4 (Road No. 5)	50.00
		KARUR-PF shelter-4 bays' length on PF No. 2 (id : 1923/LAW 07-08) CE/OL.	49.00
		Samalpatti-Extension of rail level PF No. 2 for 24 coach capacity.	50.00
		SAMALPATTI AND DASAMPATTI-Provision of PF Shelter for 2 bays' length each on PF-1 (id : 1939/LAW 07-08) CE/OL.	45.00
		UTTUKULI : HL PF for Dn line side 250 m and an FOB with electrical and communication installations. (id : 995/03-04) CE/OL.	28.00
		SA-Renewal of old AC sheet roofing with galvalume roofing sheets in PF 1 and 2.	26.00
		MTP Re-roofing of station Building and improvements to Retiring rooms etc.	25.07
		KRR provision of platform shelter for 90 M long 10.67 M wide on PF No. 2 and 3.	29.64
		TPT-Provision of platform shelters 6 bays of 16m x 5.5 m on PF No. 1.	29.55
		CBF-Improvement to circulating area, proposed borewell and land scaping.	28.87
		MAP - Proposed PF shelter 4 bays of 16.00 X 10.80m each,	23.98
		ADEN/ED-Sub-division-Improvements to station approach roads and colony roads in TNPM. PY, UKL, TUP, VNJ, IGU, CV, ANU & SGE.	42.00
		SA-Provision of kota slab paving in PF 1 & 2	12.00
		SA Jn.-Proposed dadoing and Kotta stone flooring at left over location in Salem. PF No. 3 ED end.	23.06
		SA Jn.-Proposed dadoing and Kotta stone flooring at left over location in Salem. PF No. 3 JTJ end.	23.06
		ATU-Provision of PF surface paving	28.00
		CBE-Repairs to the drinking water pipe line from steel OHT to PF. No. 1 @ CBE.	1.70
		Improvements PF surface in PF No. 1 & 2 at CHSM.	26.27
		ED-Improvements to circulating area (phase-II)	30.00
		ED-Provision of concrete apron for left over portion of PF 2.	29.00
		Erode Jn.-Provision of CC apron for a length 27 Mtr. in PF No. 2.	12.15
		Erode Jn.-Provision of CC apron for a length 50 Mtr. in PF No. 2.	23.92
		Erode Jn.-Provision of CC apron for a length 25 Mtr. in PF No. 2.	11.56
		ED-Proposed improvements to circulating area near parcel office.	20.00

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
		ED-Proposed in SC/ST union o house, and pa	nents to TTE rest room, 30.00
		ED-Proposed in existing TTE of old RMS ro	nents to circulating area 30.00
		ED-Proposed area, Diversion and toilet faci	ements to circulating 28.00
		Renovation of	Room at MTP 16.86
		Improvements SXT.	surface in PF No. 1 & 2 at 13.71
		SGE-Improve and colony ro	station approach roads 3.05
3.	PGT	Passenger Ar	Works 477.23
4.	TVC	Raising and at Thakazhi, K section.	on of low level platform 68.01
		KTYM-Impro expansion of of walk way fr platform.	to approach road and 75.72
		ERM Yard-Pr in sick line p line in coac drainage nea	of pumping arrangement 2.31
		ERN-Provisio special repai	ditional waiting rooms and 25.61
		KLMR-Raisin 1, 2 & 3.	extension of platform No. 42.86
		KTYM-Impro	s to second entry road 55.49
		NEM & BR approach ro	provements to station 15.40
		CWR-Raisin	extension of PF No. 1 & 2 5.80
		TRTR-Impro circulating a	s to approach road and 39.42
		VAK-Improve and constru	to platform waiting room 41.98
		NCJ-Propos	or hydrant in Road No. 1 17.72
		ERS-Walkw ROB to platf	KSRTC bus stand south 13.14
		KCVL-Impro platform on	s to circulating area and 57.74
5.	TPJ	Kumbakonai to circulating Improverment (Parking).	ovement and beautification 43.20
		SRGM-Pro Platform wit	Provision of Land Scaping, 30.00
		PDY-Const holding 1 la	way connecting island 20.00
		VRI-(i) Impr (ii) Arrest o VAI PF No. station.	of GLR with capacity of 20.00
			its to flooring of PF No. 1 75.00
			akage at PF shelters at & 4 and PF No. 1 at NVL

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
(I) Works Completed			
		TVR-Improvements to PF surface in PF No. 1, 2, 3 & 4 and improvements to station approach road and circulating area including provision of entry and exit ornamental arch including connected electrical works.	48.55
		ALU-Raising of Platform and alteration to existing building.	47.42
		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.	84.70
		Tiruchchirappalli Jn.-Improvements to approach road from railway Institute end parcel office leading to station building.	68.50
6	MDU	Passenger Amenity Works	579.58
7	CE/CN/ERS	Passenger Amenity Works	300.92
8	CE/CN	PF shelters at CGL, TRX, OV, PEI, VVN, PF benches, water tap, FOX and station name board works are completed at ACK, TZD, TMV, PEI & VVN station and water taps, PF benches, station name board works are completed at Tirumano, MMK, PET, TZD, ACK and MLMR station.	9.41
9	MTP	NA	..
(II) Works in Progress			
1	MAS	AB-JTJ Upgradation as Model Station	577.01
		Raising of Rail & Medium Level Platform to High level (B Category 2 and D Category 13 stations).	540.00
		Chennai Egmore-Improvements to platforms surfaces with vacuum dewatered concrete replacement of existing broken AC sheets with Galvalume sheets in station building.	154.63
		Chennai Central & MMC-Replacement of existing broken AC sheets with non-Asbestos colour sheets in high roof of old concourse with Galvalume sheets in PF No. 6 to 9 & 14 and leg getters with Aluminium Gutters.	186.66
2	SA	Karur : Retiring Room, Provision of PF shelter for 32 m each on PF 1 & 2 (id : 975/03-04) CE/OL.	21.00
		Coimbatore Jn-Improvement to circulating area at Eastern side and Western side. (id : 1508/09-10) CE/OL.	172.72
		Mettupalaiyam-Improvements to approach road, circulating area, Booking office, Ladies waiting hall (id : 1926/LAW 07-08) CE/OL.	33.00
		Salem Division-Provision of drinking water facilities and toilets at Goods-sheds of SA, SAMT, ED, IGU, PLMD & CBF.	50.00
		Southern Railway-Platform shelter (2 Nos.-B category stations and 23 Nos.-D category stations). (SA-Dn-KLT, PGR & SGE)	341.97
		Salem & Chennai Dns-Raising of Rail & medium level platforms to high level (B category 2 & D category 13 stations). (TPT, MAP, SGE, PTJ, KLT, PGR in SADn.)	900.00

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
(II) Works in Progress			
		Karur-Strengthening of column and beams by epoxy treatment in station building, improvements to approach road, provision of drainage arrangements and construction of boundry wall.	46.00
		Salem Divn. : Provision of purified drinking water to stations through water treatment systems @ CBE (ID : 1506/09-10) CE/OL.	20.00
3	PGT	Passenger Amenity Works	709.00
4	TVC	Alleppey-Improvements to surfacing of Platform No. 1 (ID : 1946/07-08) CE/OL.	49.00
		Alwaye-Provision of a new Upper class Waiting room and shifting of PRS center. (ID : 1947/07-08) CE/OL.	49.50
		Angamali for kaladi-Raising of platform No. 1 to high level and paving the prime areas of platform No. 1 with Kota stone type.	49.00
		Chengannur : Re-roofing of station building and provision of VRR. (ID : 999/03-04) CE/OL.	19.00
		Chengannur :-Provision of VIP lounge, upper class waiting room, SMR's room and raising of platform No. 2 & 3 (id :	49.50
		Ernakulam Jn. : Paving of platform No. 2/3 with Kota stone or similar flooring (ID : 1695/08-09) CE/OL.	49.00
		Ernakulam Jn.-Extension of foot over bridge to eastern side for 2nd entry (Karshaka Road side) (ID : 248/PB 98-99) CE/OL.	63.50
		Provision of 80m. shelter on PF No. 4/5. (ID : 1306/06-07) CE/OL.	49.50
		Ernakulam Town & Kayankulam-Model stations-Provision of additional waiting rooms (ID : 1950/07-08) CE/OL.	49.00
		Ernakulam Town & Alwaye : Raising of PF No. 2 (ID : 1305/06-07) CE/OL.	49.50
		Kayankulam-Upgradation of amenities as model station (ID : 1951/07-08) CE/OL.	205.00
		Mayyanad-Provision of Foot Over Bridge (id : 1696/08/09), CE/OL	45.00
		Nagercoil Jn.-Provision of shelter for a length of 32 m 4 Nos. one each end of PF No. 1 & 2 for AC coaches. (id :	46.50
		Nagercoil Jn.-Provision of carriage watering arrangement between road No. 8 & 9 for rake maintenance in pit line No. 1 (Road No. 9).	26.50
		Nagercoil Jn.-Construction of new booking office and raising platform No. 1 (id : 1307/06-07), CE/OL	49.50
		Nanguneri & Aralvaymoli-Provision of waiting rooms. (id : 1698/08-09), CE/OL	49.00
		Carriage watering arrangement between Road No. 12 & 13.	36.50
		Tiruvananthapuram coaching depot : Provision of carriage watering arrangement between Road No. 14 & 15 for platform turn round attention.	26.50

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
(II) Works in Progress			
		Trichur-Provision of second entry for passengers on goods shed side by providing extension to FOB & Booking counters.	49.00
		Trichur & Nagercoil-Model stations-Provision of additional waiting-rooms (ID : 1957/07-08) CE/OL.	49.00
		Trivandrum Division-Construction of second booking office near parcel office for shifting the existing booking office.	49.75
		Trivandrum Division-Provision of new waiting room at Quilon end and conversion of existing upper-class waiting room into AC dormitory.	49.50
		Trivandrum Division-Extension of PF No. 1 at AMVA, VRLR, SUCH, THX, NPK, KZTW, SGLM & MP to accommodate the longest stopping trains.	49.50
		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
		Trivandrum Division-Extension of platforms to hold 24 bogies (3 stations) (ID : 1963/07-08) CE/OL.	200.00
		Trivandrum Division-Provision of 32 m each of platform shelter for AC coaches at 6 locations, viz. KYJ, TRVL, CGY, TRTR.	49.00
		Trivandrum Division-Provision of recommended level of platform shelter at PASA, NYY, MQO, CHPD. (ID : 1966/07-08) CE/OL.	49.50
		Trivandrum Division-Provision of PF shelter for a length of 32 m each for AC coaches at AFK, CKI, IJK & GUV (id :	46.00
		Trivandrum Division-Provision of PF shelter for a length of 32 m each at VLY, AAY, ERL & NEW (ID : 1970/07-08) CE/OL.	42.00
		Ernakulam Jn.-Raising of PF 4/5 from medium to high level.	77.50
		Provision of Shelter in PF 2 & 3 at PVU and PF 1 and PF at CRY.	74.00
		Munroturuttu-Proposed rebuilding station building.	49.50
		Chengannur-Pilgrim complex. Developing low lying area near RPF station.	95.00
		Guruvayur-Water supply arrangement replacement of defective pipe lines.	56.00
		Chalakudi-Water supply arrangement-Provision of OHT.	68.50
		Ernakulam Town-Additional shelter for a length of 64 m over PF stalls.	40.00
		Kulitturai-Provision of Shelter 64 m each in PF 1 and PF 2.	72.00
		Kanniyakumari & Nagercoil Jn.-Surfacing of Platform PF 1 at CAPE and PF 2 & 3 at NCJ with vacuum dewatered concrete to facilitate mechanised cleaning.	92.50
		Aluva-Provision of Shelter 64 m each in PF 1, 2 & 3.	74.00
		Ernakulam Jn.-Provision of Shelter in PF 4 & 5	74.00
		Tripunittura-Provision of Shelter 64 m each in PF 1 and PF 2.	74.00

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
(II) Works in Progress			
		Karunagap	Provision of Shelter in PF 1, 2. 36.00
		Valliyur & P	Waiting rooms. 83.00
		TVC Dn. : I	Provision of purified drinking water 20.00
		to stations	water treatment system.
		TVC Dn.,	Provision of FOB at KCVL 248.00
		connecting	main entry & second entry.
		Nagercoil & Ernakulam	Provision of PF at KCVL, Trichur, Emakulam Jn. 384.00
		stations.	Upgradation of model
5	TPJ	TRB-Provision of FOB connecting station platform (id : 1087/05-06). Rail is completed and precast	29.50
		type fabricating steps & sl	ing completed.
		GOC-Rep of 45 HP	Provision of exg. Washout Pump set 25.00
		on age cu	control panel by new one
		reservoir	tion basis for under ground
		Ariyalur-in	Provision of PF to circulating area and 30.00
		augmenta	passenger amenities like PF
		benches,	sinks and small shelter and
		2nd class	waiting hall.
		ALU-Impr	Provision of PF to the platform No. 1 & 2 30.00
		with floori	ble for mechanised cleaning.
		Improven	Provision of circulating area lighting at 10.00
		VRI, ALU	ghmast towers.
		VM-Rebu	Provision of station building, waiting hall, 194.94
		Platform.	er and improvements to
		circulating	(GC unit take up the work)
		work is p	under GC unit.
		VM-Impr	Provision of PF to the extended portion for 30.00
		holding/2	s at MS end of PF No. 1, 2 &
		3 includi	Provision of minimum essential
		ameniti	PF benches, water sink, small
		shelters;	ts and garden at PF 1, 2 etc.
		VRI-Exp	Provision of circulating area duly shifting 29.65
		SE/P. W	ce, SE/Works stores office,
		parcel o	
		VRI Pro	Provision of high level PF for PF No. 2 48.34
		(75% w	pleted).
		TJ-Impr	Provision of PF to the platform No. 2 & 3 26.20
		and relc	of various offices.
		TJ-Exte	Provision of PF No. 1 for 24 49.77
		coach le	0% Work Completed).
		Light we	Provision of shelter at TTP & other way 4.00
		side sta	der DEN/East.
		MV Jn.	Provision of PF and feel concept-Provision of 29.64
		granite	and daddooing of concourse
		area,	ification of station with
		landsca	50 % work completed).
		MV-Roc	Provision of station building with RCC flat 29.09
		roof.	
		Proposi	Provision of digital black light, vinyl 28.00
		steel s	signage display board and
		variou	age boards at Thanjavur,
		Kumbal	Mayiladuthurai and Thiruvapur.
		TPJ Dri	Provision of enclosure and KOISKS 4.37
		with gl	les, sintax tanks for water
		coolers	le in the station platforms along
		with	mounting type voltage
		stabiliz	J-6 Nos. & TJ -2 Nos).

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
(II) Works in Progress			
	TPJ Dn.	Provision of modern improved lighting at retiring rooms, circulating area, concourse and Air conditioning of retiring rooms at TJ & KMU.	29.00
		Provision of hygienic drinking water arrangements through R. O. plant at important stations TPJ division.	30.00
		Provision of granite benches at important stations.	2.00
		Standardisation of passenger amenities, information boards at way side stations and major stations at TPJ division.	20.00
		Vriddhachalam-upgradation and beautification of Passenger Amenities. (75% Work Completed).	49.90
	PML	Extension and raising of Platform for High level.	29.00
	NGT	touch & feel concept-Improvements to concourse, station building and circulating area. (90% work completed).	44.53
	Malliyam station	Raising of existing rail level platform into medium level platform.	25.25
	TPJ	Improvements of PF surface at PF 1A, 2 & 3, 4 & 5 by providing vacuum dewatering concrete surface.	70.00
	NGT	Proposed construction of modern type lavatories "Pay & Use Toilet".	12.14
	KMU, NGT, SRGM and TRB Stations	proposed IRS type PF shelter.	20.46
	NCR	Improvements to festival shed and construction of ground level reservoir 50kl. capacity and septic tank with dispersion trench 100 persons capacity.	16.17
	TVR Jn.	Improvements of PF surface by vacuum dewatering concrete, provision of IRS type PF shelter at PF 2 & 3 and Prov. of one bore well 200mm. dia 90 meter deep with pump shed including pipe line arrangements.	53.36
	TJ-KMU	Improvements to PF and approach road at TT, PVL & AZP stations and imp to road surface and construction of retaining wall in LC No. 300A between stations TT & TJ.	36.33
	TVR	Improvements to PF surface by vacuum dewatering concrete, provision of IRS Type PF shelter at PF No. 2 & 3 and provision of one bore well 200mm. & 90 meter deep with pump shed including pipe line arrangements improvements to station approach road.	53.36
	TVR Jn.	Improvement works in running room, Health unit etc.	23.25
	TTP and PKT Stations	Improvements works in running room, etc.	25.42
	NCR	Improvements to festival shed and construction of ground level reservoir 50 Kl capacity and septic tank with dispersion trench 100 persons capacity.	16.17
	TPJ	Modernisation of commercial branch to cater large attendance of public and passengers with state of art information facilities.-Will be done along with DRM/ADRM Office shifting.	10.00

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
(II) Works in Progress			
	KMU	Proposed steel type of FOB with ramp in lieu of existing rail type FOB (id : OT/03-04)	29.87
	TPJ	Improvements to platform surface, provision of platform benches, taps, etc. in PF No. 2 & 3 GOC end.	30.00
	PDY	Provision of coach indication boards for PF No. 2 & 3.	26.57
	CBU, VI & VRA	Provision of PF shelter One bay at VI and VRA and CBU-2 bays (Agency Terminated)	29.00
	TPJ	Provision of lighting arrangements in newly proposed circulating area.	22.10
	VRI Junction	Improvements to station building, waiting hall, health unit, compound wall at the rear side of Running room Drainagements near PF No. 1 & 2 (Agency fixed).	18.83
	TRB	Provision of platform shelter for platform No. 4 (5 bays) (Cantilever type).	30.00
	TPJ Dn.	Provision of modern furniture to the retiring rooms, retiring rooms (VRI, SRGM, VM, PDY) booking, parcel office UTS/PRS location (TPJ, TP, SRGM, ALU, BAL, KKPM, LLI, TRB, TPTN) in addition to the other CNC stations over Main line and Branch line on replacement.	30.00
	TPJ Dn.	Provision of modern furniture to the waiting rooms, retiring rooms (KMU, MV, TVR) booking, parcel office UTS/PRS location (TJ, KMU, MV, TVR, NGT, NCR, PKT, goods shed (TJ, KMU, MV, TVR, NGT) in addition to the other CNC stations over Chord line and Branch line.	30.00
	KMU	Improvements to retiring rooms and modern decorative front elevation of the station building.	29.00
	MV	Improvements to exg. Goods shed office, with merchant room and labour's rest room with toilet facilities and provision of new furniture.	28.00
	TJ	Improvements to exg. Goods shed office, with merchant room and labour's rest room with toilet facilities and provision of new furniture.	30.00
	KMU	Improvements to exg. Goods shed office, with merchant room and labour's rest room with toilet facilities and provision of new furniture.	30.00
	TP	Provision of High level platform in place of exg. RL PF at TPJ end.	20.00
	VM & MV	Renovation of TTE's rest room with all facilities including furniture.	30.00
	TPJ Dn.	Provision of toilet facilities at various stations between MV Jn.-KMU Section and improvements to circulating area of KTM station.	31.50
	TPJ Dn.	MV-Provision of purified drinking water to station through water treatment system.	20.00
	Kumbakonam	Proposed improvements to the concourse area.	25.49
	TPJ Jn.	Provision of PF shelter 4 bays in PF No. 2 & 3 5 bays in 4 & 5.	86.00

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
(II) Works in Progress			
		TPJ Jn.—Provision of PF shelter 10 bays in PF No. 6 & 7.	95.00
		TJ-Improvements to PF No. 1 surface	30.00
		TRB-(i) Protection of PF No. 4 edge by providing RCC retaining wall (ii) Provision of FRP OHT-50000 Lit. cap. and water supply and cubical arrangements for PF & station building (iii) Improvements to circulating area and station approach road to avoid flooding.	75.00
		TPJ-Covering to foot path for passengers at the approaches to station.	20.00
		Providing Deep borewell, water supply connection to station building at Kille & Chidambaram.	20.00
		PDY-Extension of PF No. 3 to hold 24 bogies.	50.00
		Provision of borewell and improvements to water supply to various way side stations in ADEN/N/TPJ sub-division with motor pump arrangements at stations/PFs at SRGM, BXS, VLDF & KTTR stations.	30.00

Sl. No.	Divisions	Name of work	Estimate cost (₹ in lakhs)
(II) Works in Progress			
		VM-Provision of 1 to a length Hydrant valve	10.00
		TPTN station and proposed vacuum de	41.00
		ICG-Provision of	99.90
		ICG H-Provision of	99.90
		ICG-Wideni approach r	60.00
		VM, PDY, V valves and hydrands.	17.92
6	MDU	Passenger	790.27
7	CE/CN/ERS	Passenger	74.92
8	CE/CN/MS	PF shelter paving, wa Karunghuz FOB, PF s	12.85
9	MTP	Nil	

13. Expenditure incurred on Passenger and Other Railway Users' amenities 2012-

1		2	(Figures in lakhs of ₹)		
Details of basic amenities and additional facilities		Plan-head Passenger and Other Railway Users Amenities	head deterioration	Other Plan heads like New Lines, Doubling etc.	Total
A. Basic Amenities—					
1.	Proper booking arrangements..	153	0	0	153
2.	Waiting Hall	164	0	0	164
3.	Benches	83	0	0	83
4.	Suitable arrangements for Electric Lighting	95	0	0	95
5.	Drinking water supply arrangements at stations	362	0	0	362
5(a)	Drinking water supply arrangements in the trains	67	0	0	67
6.	Platform with well maintained surface (Rail level platforms at flag stations)	39	0	0	39
7.	Latrines	40	0	0	40
8.	Shady trees	17	0	0	17
B. Additional facilities—					
1.	Urinals	0	0	0	0
2.	Platform Covers	422	0	0	422
3.	Bath facilities	133	0	0	133
4.	Water Coolers	22	0	0	22
5.	Foot Over Bridges or Subways	657	0	0	657
6.	Washable Aprons	43	0	0	43

(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
B. Additional facilities—(Concl'd).				
7. Retiring Rooms & Rail Yatri Niwas	58	0	0	58
8. Refreshment Rooms, Base kitchens and Trolleys/Stalls for Catering & Vending.	69	0	0	69
9. Improved lighting and fans on platforms	64	0	0	64
10. Enquiry Offices, Train indicator Boards	685	0	0	685
11. Reservation Offices—Computerised Reservation.	38	204	0	242
12. Improvements to circulating area	864	0	0	864
13. Car, Tonga, Cycle stands	0	0	0	0
14. C. C., TV	17	0	0	17
15. Cushioning of Second Class Berths	0	0	0	0
16. Renovation/Remodelling of station buildings	414	0	0	414
17. Carriage Watering	34	0	0	34
18. Book Stalls	0	0	0	0
19. Raising, lengthening, widening and resurfacing of platforms	2050	0	0	2050
20. Public address system	18	0	0	18
21. Exhibition of Time-Table sheets on Glass Fronted Frames.. .. .	143	0	0	143
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.	28	0	0	28
23. Improved latrines	6	0	0	6
24. Miscellaneous improvements to existing amenities, viz., provision of seats, hedges, etc.,	168	0	0	168
C. Other Railway Users' amenities (for Goods Sheds and Parcel Offices)—				
1. Arrangements for drinking water including water coolers, water trollies, etc.	33	0	0	33
2. Waiting accommodation	79	0	0	79
3. Refreshment Rooms & Vendors Stalls	51	0	0	51
4. Latrines	49	0	0	49
5. Miscellaneous arrangements like provision of seats, hedges & shady trees	118	0	0	118
6. Lighting arrangements and provision of fans	32	0	0	32
7. Rest shelters for licensed porters	0	0	0	0
Grand Total	7315	204	0	7519

14. Statement of Actual Expenditure under Amenities for Staff for the year 2012-2013

Sl. No.	Description	(Figure in thousands of ₹)	
		Gross	Net
1	New Hospitals, Dispensaries, additions and improvements to existing ones.	76,720	76,720
2	New Schools, additions, alterations, improvements & additions to Existing ones.	43	43
3	New Institutions, rest houses, sports grounds, reading rooms, Improvements & additions to existing ones.	13,784	13,784
4	Provision and improvement of health and welfare works & maternity centres.	7,359	7,359
5	Cooking arrangements for workshops canteens & rest houses for workmen.	651	651
6	Provision and improvements of sanitation, water supply, road lighting and marketing facilities in Railway colonies.	21,928	21,928
7	Improvements Alterations to Existing quarters whatever type ..	20,209	20,209
8	Others Works	2,988	2,988
9	Total Col. 1 to 8 (Staff Amenities)	1,43,682	1,43,682
10	Provision for Officers' Quarters	14,449	14,449
11	Quarters for Class III Staff	69,610	69,610
12	Quarters for Class IV Staff	17,522	17,522
13	Total Col. 10 to 12 (Staff Quarters)	1,01,581	1,01,581
14	Total Col. 9 +13	2,45,263	2,45,263
15	Medical Expenses — J 200	16,81,000	16,81,000
16	Health and welfare services — J 300	2,91,714	2,91,714
17	Education — J 100.. ..	5,06,600	5,06,600
18	Canteen and other staff amenities — J 400	54,214	54,214
19	Staff Training — K 500	8,88,802	8,88,802
20	Total Col. 15 to 19	34,22,330	34,22,330
21	Grand Total Col. 14 + 20	36,67,593	36,67,593

15. Passenger Traffic 2012-13

No. of stations functioning for Issue Passenger traffic during 2012-13.

- (i) No. and Name of City/Town Booking Offices .. 2
- (ii) No. and Name of City/Town Booking Agencies Nil
- (iii) No. of Name of Out Agencies 11

(iv) No. of Street Collection and Delivery services (Pertains to Dy. CCM/FM).

16. No. of stations opened/closed during 2012-13 for issue of Passenger traffic 2012-13

- (i) No. and Name of City/Town Booking Offices .. Nil
- (ii) No. and Name of City/Town Booking Agencies Nil

(iii) No. of Name of Out Agencies

(iv) No. of Street Collection and Delivery services (Pertains to Dy. CCM/FM)

17. No. of Halts functioning during 2012-13

(* includes Halts presently in that section)

(i) Train halts converted into flag stations

(ii) Stations Opened/Closed for Passenger traffic

(iii) Block stations down for Passenger traffic

(iv) Train halts opened for Passenger traffic

(v) Train halts closed for Passenger traffic

(vi) Train halts re-opened for Passenger traffic

Karasangal halt closed 1.2.13

Stations closed .. 2

and Delivery services

during 2012-13 .. 155

as a result of gauge conversion

flag stations .. Nil

for Passenger traffic Nil

led into flag/train halts Nil

passenger traffic .. Nil

passenger traffic .. 1

r passenger traffic .. Nil

en closed 1.2.13

18. The converted BG Line opened for Passenger/ Goods traffic during 2012-13

Section	Division	Date of Opening	Opened for
Mayiladuthurai Jn. (MV) Tiruvarur Jn. (TVR) (BG Section)	TPJ	06-4-2012 01-7-2012	Opened for Goods Traffic Opened for Passenger Traffic. The chargeable distance has been notified.
Tirunelveli Jn. (TEN) Tenkasi (TSI) (BG Section)	MDU	21-9-2012	Opened for Passenger Goods Traffic. The chargeable distance has been notified.
Dindigal (DG)- Palani (PLNI) (BG Section)	MDU	20-11-2012	Opened for Passenger/ Traffic. The chargeable distance has been notified.

19. Section/Line closed for Passenger traffic—

Section	Division	Date of Closing	Closed for
Kanchipuram-(CJ) Arakkonam (AJJ) part of Chengalpattu Jn.- Arakkonam Jn. (BG Section)	MAS	27-9-2012	Closed for all descriptions of traffic.
Tiruvarur- (TVR) Tiruturaipundi (TTP)- Pattukottai (PKT) (MG Section)	TPJ	19-10-2012	Closed for all descriptions of traffic.

Station opened/Reopened for goods traffic during 2012-13

Nil

Station Closed for goods traffic during 2012-13

Nil

20. Siding opened for receipt and dispatch of goods traffic

Siding opened for receipt and dispatch of goods traffic during 2012-13 (i.e. 01-04-2012 to 31-03-2013) is Nil



XIV. संरक्षा/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 :—

2008-09	2009-10	2010-11	2011-12	2012-13
9	5	6	7	5

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 :—

2008-09	2009-10	2010-11	2011-12	2012-13
0.141	0.077	0.088	0.100	0.084

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	2012-13
Collision	0	1	1	0	1	0
Derailment	..	..	..	..	..	..
a) At stations	2	2	0	0	1	2
b) In mid-section.	2	1	3	3	1	1
LC accidents	..	..	..	..	..	..
a) Manned	0	0	0	0	0	0
b) Unmanned	6	5	1	3	4	2
Fire in trains	1	0	0	0	0	0
Miscellaneous	1	0	0	0	0	0
Total	12	9	5	6	7	5

There was a Collision in 2010-11 and No. of Unmanned level crossing accidents was 4 in 2011-12 *vis-a-vis* 2010-11.

b. Indicative accidents

The number of indicative accidents 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	2012-13
Averted collision.	1	0	0	0	0	1
Train passing signal at danger.	3	0	1	6	0	0
Breach of block rules.	1	0	0	0	0	0
Total	5	0	1	6	0	1

SAFETY MEASURES

With the accent on safety, the use of assets for improving the importance of safety assumes prime importance. Corporate Safety Plan 2003-2013 provides the broad guidelines for improving safety and preventing accidents. Many of the measures are arising out of those guidelines.

(A) Railway Safety Review Committee Recommendations

Railway Safety Review Committee set up under the chairmanship of Justice J. S. Verma, submitted a total of 278 recommendations. 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 been implemented till March 2012. 66 recommendations are not pertaining to Southern Railway. In accepted/partially accepted stages depending upon the 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. The committee has given 111 recommendations, 4 have been accepted by Railway Board. All others have been accepted for implementation. 10 recommendations are pertaining to Southern Railway. 10 recommendations have been implemented in Southern Railway up to March 2012. Balance recommendations are in various stages of implementation.

(C) Development of Human Resources

In view of the fact that majority of accidents on Indian Railways have some human failure. The Railways are following the twin approach of development of human resources and providing fail-safe equipment.

11-12, whereas, it was Nil in 2010-11.

accidents during 2011-12. The trend of indicative accidents with category-wise break-up for the last 5 years is given below :—

2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
0	0	0	0	0	1
2	0	1	6	0	0
0	1	0	0	0	0
2	1	1	7	0	1

utilizing the usage of existing assets for improving the importance of safety assumes prime importance. Corporate Safety Plan 2003-2013 provides the broad guidelines for improving safety and preventing accidents. Many of the measures are arising out of those guidelines.

Committee Recommendations

Committee set up under the chairmanship of Justice J. S. Verma, submitted a total of 278 recommendations. 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 been implemented till March 2012. 66 recommendations are not pertaining to Southern Railway. In accepted/partially accepted stages depending upon the availability of resources, success of trials, etc.

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Resources

majority of accidents on Indian Railways have some human failure. The Railways are following the twin approach of development of human resources and providing 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 Zonal Electrical Traction Training Centre at Avadi, Signal and Telecommunication Training Centre Podanur, Southern Railway Civil Engineering Training Centre and Golden Rock-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 2012-2013, forty eight safety drives were conducted. These include sixteen 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 2012-13, sixteen 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 2012-13, sixty three safety posters, twenty eight stickers, twenty four hand bills, ten folders, fourteen booklets, ten pamphlets and six safety bulletins were printed and distributed.

(D) Safety Propaganda

- + Safety propaganda is conducted through media such as TV, Radio and Newspaper appealing to public for proper caution at level crossings, not carrying inflammable articles, not to travel at foot board/roof top, etc.
- + Road users are educated through inter-action and display of safety posters at Village Panchayat Offices etc., by distributing hand outs at retail outlets of Hindustan Petroleum Corporation, Indian Oil Corporation and Bharat Petroleum Corporation and through display of cinema slides.
- + Action is being taken to educate the road users on the importance of strictly following Motor Vehicle Act provisions at unmanned level crossings through publicity campaigns. These are in the form of short films, slides in cinema halls, local cable TV networks, etc. campaigns in schools, fairs and other areas like weekly markets where public gather, safety pamphlets/hand-bills and conducting street dramas.:-
- + A Special efforts is being made to educate road users about the precautions to be taken while crossing the unmanned LCs through "**SMS**" to all mobile users in **Kerala and Tamil Nadu**.
- + Thiruvananthapuram, Tiruchchirappalli and Chennai Divisions have a group of staff trained to perform street plays for carrying the safety messages to the masses.
- + Advertisements are carried in daily news papers appealing to public not to carry inflammable articles, not to light fires inside the coaches, avoid footboard travel, safety at unmanned level crossing, etc.

With a view to bring into focus various safety related aspects and also to involve all levels of staff in the effort to improve safety, an **Annual Safety Week** was observed from 7th March 2013 to 8th March 2013. The following were the highlights of the Safety week :-

- + Safety Seminars at Zonal Railway Training Institute, Tiruchchirappalli focusing on various safety related issues were presented by eminent railway officers.
- + Competitions on Safety related topics such as Essay, Poster designing, Quiz, Safety Drama, and Ex-tempore speech were held during the period.
- + Prizes for the winners of various competitions and an overall shield were presented at a colorful valedictory function.

At divisional level, various functions and propaganda campaigns are organized to highlight the importance of Railway safety. These activities include street dramas, folk dances, etc., as a medium to take the message to the masses. Trade fairs organized by State Governments and other organisations give yet another opportunity to have direct contact with the public.

(E) Other Safety Activities

(i) A Safety calendar for 2013 was printed and distributed during December 2013. The details of Programmed Safety Drives to be conducted every month during 2013 are 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 recognize safety consciousness of the staff and good work done in the field of Safety during 2012-13, 172 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 2013.

I. (a) Accidents involving Casualties during 2012-13

(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	While train No. FKZS/N was running between Attipattu-Ennore stations, all wheels of two BCN loads NWR BCN 31110317337 (41st wagon from TE) and ECR BCN 31100853500 (42nd wagon from TE) and one NR BVZC 74601, derailed at Point No. 50 "A" end at km. 19/7, obstructing both Up and Dn lines	0	0	0	0	0	0	0	0	0

(b) Details of Accidents Involving Casualties During 2012-13 Due to Negligence of Road Users—

Sl. No.	Brief Details	Killed	Injured	
			Grievous	Minor
1	While Train No. IRCTC special was on run between Tiruppuvanam and Tirupachetti stations, one empty lorry (No. TN 28 H 7477) trespassed LC No.22 @ km 29/900-30/000 from right to left and hit train engine entangled with engine.	1	0	0
2	While Ey. BCN Goods Train passing between DG-EDU, one Maruthi Wagon R Reg. TN 57-AA 1103 trespassed the Unmanned LC No. 24 at Km. 59/400-500 and hit against train engine. Two persons travelling in Maruthi Car were killed and two persons were grievously injured. No. injury to Train crew.	2	2	0
3	While Train No. 12998 HAPA-TEN Exp., was running between Kumbalam-Thuravur, a Tata Indica Car bearing No. KL 32 C276 suddenly trespassed at Unmanned LC No. 9 at km. 12/500-600 and hit by the train engine. Four adults and one child in the car were killed.	5	0	0
4	While Train No. 12084 Exp., was running between KMU-ADT, a Tata Sumo bearing Regd. No. TN09-L-4468 suddenly trespassed at Unmanned LC No. 258 at km. 308/1-2 and hit the train engine, resulted in 2 occupants of the car killed.	2	0	0
5	While working 56806 Passenger between kattur (KITR)-Pullambadi (PMB), One Tractor (Tailer loaded with straw) bearing Reg. No. TN 46 K. 2895 suddenly trespassed from right to left at Unmanned LC No. 217 @ km. 301/8-10 and hit against the train. One person was killed and three persons met with simple injury.	1	0	3

II. Accidents Statistics

No. of train accidents occurred on this Railway (excluding LC accidents) during 2011-12 and 2012-13 :—

Sl. No.	Particulars
1	(a) Collision involving
	(b) Collision involving passenger trains
2	(a) Derailments involving
	(b) Derailments involving passenger trains wrecking.
3	Derailments due to track
4	Trains running into road
5	Fire in trains
	TOTAL ITEMS (1 to 5)
6	Failure of coupling and
	(a) Passenger
	(b) Goods
	(c) Other failure of R
	(d) Other failure of P
7	Attempted train wreck
8	Train running over cat
9	Train running over ob
	TOTAL ITEMS (6 to 9)
	GRAND TOTAL (1 to 9)
10	No. of persons killed : No. of Railway Servan
11	Accidents on the Rail
	(a) Passengers
	(b) Railway Staff
	(c) Other than Passe Railway Staff.
	Total other than
12	No. of person injured No. of Railway servan
13	Accidents on Railwa
	(a) Passengers
	(b) Railway Staff
	(c) Other than Passen Railway Staff
	Total other than w

lts

under principal heads which g Workshops) during the year

	2011-12	2012-13
ger trains	1	0
han	0	0
ssenger	2	0
er than train	0	1
king	0	0
c at LCs	4	5
	0	0
	7	6
gear		
	0	0
	0	0
lock	0	0
	0	0
	0	0
	0	0
	0	0
rkshops	4	0
	8	4
	3	1
	13	9
shop	24	14
rkshops	100	67
	89	0
	..	0
	2	5
p	91	5

III. (a) Comparative Figures of Consequential Train Accidents attributed to failure of Human Element for the Last 5 years.

Sl. No.	Category	2008-09	2009-10	2010-11	2011-12	2012-13
1	Collision	1	0	0	1	0
2	Derailment :					
	(a) At stations	0	0	0	0	0
3	(b) In mid-section LC accidents	0	1	0	-	1
	(a) Manned	0	0	0	-	0
	(b) Unmanned	0	0	0	0	5
4	Fire in trains	0	0	0	0	0
5	Miscellaneous	0	0	0	0	0
	Total	1	1	0	1	6

(b) Comparative Figures of Indicative Train Accidents attributed to failure of Human Element for the last 5 years.

Sl. No.	Category	2008-09	2009-10	2010-11	2011-12	2012-13
1	Averted Collision	0	0	0	0	1
2	Train Passing Signal at danger.	3	2	0	1	6
3	Breach of Block rules	0	0	1	0	0
	Total	3	2	1	1	7

IV. Train Accidents per million train kilometres on Southern Railway Since 1994-95 to 2012-13

Year	Collision	Derailments	Level crossing accidents	Fire in trains	Misc	Total	Million Train kms.	Incidence of accidents per million train kms.
1994-95	3	31	27	1	..	62	60.22	1.029
1995-96	3	35	14	..	..	52	63.27	0.822
1996-97	..	29	11	..	..	40	64.20	0.623
1997-98	2	53	10	1	..	66	65.73	1.004
1998-99	1	50	7	1	..	59	64.83	0.910
1999-00	3	37	7	1	..	48	67.07	0.715
2000-01	2	33	7	1	..	43	68.39	0.628
2001-02	2	23	10	..	..	35	68.80	0.508
2002-03	1	17	8	..	..	26	69.75	0.372
2003-04	..	16	6	2	..	24	59.46	0.403
2004-05	..	2	3	1	2	8	58.63	0.136
2005-06	..	3	4	1	1	9	59.79	0.150
2006-07	..	4	11	..	1	16	60.50	0.240
2007-08	..	4	6	1	1	12	61.62	0.195
2008-09	1	3	5	0	0	9	63.63	0.141
2009-10	1	3	1	0	0	5	65.03	0.077
2010-11	0	3	3	0	0	6	67.34	0.088
2011-12	1	2	4	0	0	7	69.68	0.100
2012-13	0	1	5	0	0	6	70.92	0.084

V. Comparative details of Inspections, surprise checks, mock drills, etc. on Southern Railway

Sl. No.	Details of Inspections	2009-10	2010-11
1	No. of inspections at station ..	21,455	21,655
2	No. of inspections at Yard ..	8,253	8,511
3	No. of Motor Trolley inspection..	1,507	1,721
4	No. of footplate inspection ..	25,550	25,721
5	No. of station working order checked ..	4,568	4,781
6	No. of surprise check ..	10,555	10,711
7	No. of ambush checks conducted at LC in co-ordination with Civil authorities.	4,955	5,111
8	No. of Mock drills conducted ..	12	12
9	No. of Safety meeting, talks, group discussions ..	4,710	4,811
10	No. of Safety Seminars ..	338	211

Since 2009-10 to 2012-13

2011-12	2012-13
23,298	24,301
8,763	8,870
1,826	1,890
26,351	26,437
4,795	4,798
11,894	12,206
5,682	5,728
17	18
5,426	5,631
370	448

Highlights for the financial year 2012-2013 Pertaining to Training**1.0 Safety Rules :**

Safety Rules are indispensable for the safe working of trains. Periodical reviews of the existing Rules are being done to keep abreast with the changing circumstances. As part of this exercise two corrections to GRs (Correction Memos Number 2/2012 dated 17/09/2012, 3/2012 dated 11/01/2013) has been issued.

1.1 Training :

Training enhances the knowledge, skill and attitude of staff to suit job needs. Training plays a vital role in promoting Human Resources for achieving safety and efficiency in operations.

ZRTI/TPJ plays a crucial role in enhancing the efficiency and safety consciousness of staff of Southern Railway and South Western Railway for upgrading Human Resources.

1.2 The Training details are as follows :—

S. No.	Name of the Course	2011-12		2012-13	
		No. of Courses conducted	No. of Trainees trained	No. of Courses conducted	No. of Trainees trained
1	Initial	45	815	36	505
2	Promotional	18	318	34	687
3	Refresher	156	3,165	124	2,369
4	General	55	641	72	821
5	Safety camp	105	2,780	113	2,309
	TOTAL	379	7,719	379	6,691

1.3 Achievements in the Training Area at (ZRTI/TPJ)

1.3.1 The training capacity of the institution was increased from 385 to 515 without extra cost. This has led to an increase in capacity by 33.76%

1.3.2 The work of upgradation of training facilities including provision of outdoor model with BG cross over (Sanctioned during the year 2003-04) was completed and inaugurated by GM/S.Rly on 09-11-2012.

1.3.3 Field visit to GOC Loco Shed/GOC for the training master for better aspects related to loco working.

1.3.4 Safety seminar conducted regularly on topics which have direct bearing on the safety categories of staff. A special course created for this purpose.

1.3.5 The playground with the active staff at a cost more than ₹ 55,000/-

1.3.6 The old yoga hall converted into a Full-fledged examination hall with more than 180 seats. A mobile jammer also been provided. This has led to smooth conduct of examinations.

1.3.7 An "Electronic Board" has been installed in the main corridor for display of safety slogans and thus inculcate safety consciousness among the staff.

1.3.8 A Video Film "BCNHL-Rolling Giant of Indian Railway" has been produced and released during March 2013.

1.3.9 To facilitate better living of staff a quota system of staff for Refresher courses by the Divisions with effect from 1st April 2013.

1.3.10 The interiors of 16 rooms) have been better living conditions to the trainees.

Safety

Workshop/GOC and Diesel Loco Shed/GOC have been introduced as part of Refresher course Station appreciation of Loco and C&W for loco working.

Conducted regularly on topics which have direct bearing on the safety categories of staff. A special course created for this purpose.

The institute has been renovated by staff and a private sponsor at a cost more than ₹ 55,000/-

The old yoga hall converted into a Full-fledged examination hall with more than 180 seats. A mobile jammer also been provided. This has led to smooth conduct of examinations.

"Electronic Board" has been installed in the main corridor for display of safety slogans and thus inculcate safety consciousness among the staff.

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The interiors of 16 rooms) have been better living conditions to the trainees.

2.0. Safety Propaganda Works undertaken; Safety Seminars and Safety Drives

Division	No. of Safety Drives	No. of Safety Seminars	No. of Safety Meetings	Inspection by Officers	Inspection by Supervisors
MAS	53	45	1140	1101	7405
MDU	14	7	1212	716	1132
PGT	37	20	672	889	4057
SA	38	28	986	1062	3996
TPJ	18	62	1128	899	7635
TVC	40	8	816	1865	4238



XV. सुरक्षा व्यवस्था/SECURITY ARRANGEMENTS

I. GENERAL :

RPF/Southern Railway has been constantly performing well in the field of 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 passengers, 14 important Stations over Southern Railway have been selected for implementation of Integrated Security System arrangements at a cost of ₹ 28.87 Crores. Camera Installation completed at Chennai Central, Chennai Egmore, Basin Bridge, Trichy, Madurai, Coimbatore and commissioned. In the remaining 07 stations, the work is under progress.
- On an average, 145 Mail/Express, Passenger and Sub-urban trains are escorted by 390 RPF staff on daily basis. A part from this, 90 trains Mail/Express and Fast Mail are escorted by 230 GRP staff on daily basis. Almost all the night trains were escorted by RPF/GRP personnel.
- Analysis of crime against passengers is undertaken periodically, and corrective measures are taken to contain the passenger related offences.
- RPF staff on access control duties are attending the trains during halt at enroute 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 defaulters travelling in ladies coaches were conducted and 14 defaulters apprehended were prosecuted u/s 162 RA. During the year 2012-13, 1108 defaulters were apprehended and prosecuted with the realization of fine ₹ 2,92,055/-
- Drive against unauthorized hawkling/ vending were conducted and 24 defaulters apprehended were prosecuted u/s 144 RA. During the year 2012-13, 24,614 defaulters were apprehended and prosecuted with the realization of fine ₹ 73,34,538/-
- 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 accompanying passengers in trains, special drives are organized against drunken passengers in trains. 73 defaulters were apprehended and dealt under the relevant provisions of Railways Act.
- High profile presence of RPF and GRP is ensured at major stations 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 passenger and attending the ladies complaints during halt in the mid-stations.
- CCTVs are provided at major Railway stations viz., Chennai Central, Chennai Beach, Tambaram, Katpadi, Arakkonam, Villupuram, Trivandrum Central, Quilon, Ernakulam South and Thrissur Railway stations, to keep watch over the movements of anti-social elements and suspected persons on train premises.

- RPF Dog Squads consisting of sniffer dogs are functioning in all Divisional HQrs. and six other important stations of this Railway and these dogs have been frequently utilized for anti-sabotage checks.
- Frequent announcements are made through PA systems and loud hailers cautioning the passengers to be more careful while on journey.
- Video coverage of general coaches are done at important and affected stations to create moral fear among the anti-social elements.
- Small albums containing the photographs of criminals are provided to the RPF staff on train escort duties.
- Pamphlets containing "Tips for safe travel" are distributed to the passengers on platforms / trains.
- RPF Mitra Yojana meetings are conducted regularly to cull out information about the suspected persons in combating crime against passengers.
- Stickers containing "RPF Help Line" telephone numbers viz., RPF/HQrs/Zonal Security Control Room Number 044-25359261, Divisional HQrs. : Chennai 044-25353999, Trichy 0431-2460454, Madurai 0452-2308042, Salem 0427-2331809, Trivandrum 099950 40000 & Palakkad 0491-2553636 are pasted in trains and conspicuous places at stations.
- Similarly, GRP/Tamilnadu 099625 00500 and GRP/Kerala 098462 00100 Helpline numbers are pasted in trains and conspicuous places at stations and the same is being printed on the backside of the reservation tickets.

High Level Co-ordination Meeting :

- Regular co-ordination meetings are held with GRP/Local Police at HQrs./Divisional/Post level to exchange intelligence to combat the incident of crime over Southern Railway. High Level Co-ordination meetings were held on 20/4/12 & 22/3/13 at Southern Railway HQrs. and the issues related to passenger security were discussed with the chiefs of GRP.

(b) Innovative measures :

- RPF/GRP launched a special scheme called "Protecting Hands" i.e. "Kakkum Karangal" for the use of passengers at Chennai Central & Chennai Egmore to curb crime during summer rush.
- GRP/Kerala has also initiated "Subhayatramangalam" programme for the safety and security of passengers especially women passengers over Kerala.
- Passenger Awareness programs are conducted outside Railway areas like bus stands, educational institutions, cinema theatres, etc.
- Chanting of passenger Awareness slogans through a pre-recorded device round the clock at important stations.
- Safe travel tips "Keep Your Valuables in bag/box and lock it with safety chain to prevent theft" was sent to about 30 lakhs Airtel customers by RPF/Southern Railway through SMS, AIRTEL.
- As instructed by CRB/NDLS, a 90 days special drive to effectively contain the theft of passenger belongings and crime against passengers conducted from June to August-12 by RPF in all divisions of this Railway. During the drive period, RPF special teams have arrested 12 TOPB criminals with the recovery of stolen Cash ₹ 4,00,600/-, Gold ornaments, mobile phones, camera and laptop from the passengers and handed over to the concerned GRP for registration of cases against the accused. This apart 6 defaulters who involved in unauthorized alarm chain pulling and 1308 offenders under various provisions of Railways Act were also apprehended by RPF Special team and dealt under relevant sections of RA.

(c) Awareness Campaign :

In order to create awareness against the drugging offences and other passenger related crime 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 among the travelling public for taking preventive measures against theft of their baggages and drugging menace.

(d) Passenger Awareness Programmes Conducted :

Sl. No.	Programme	2011-12	2012-13
1	Skit/Forum Drama conducted	78	387
2	Meeting with Coolies	34	381
3	Feedback Forms obtained	75	21541
4	Pamphlets Issued	54	151204
5	Awareness programme out side the Railway premises	36	427
6	Stickers pasted	34	32147
7	FM Channel	6	3
8	Slides projected in cinema hall	36	78
9	Video coverage of GS coaches	13	193
10	Assistance from NGOs/Scouts etc., utilized	13	10
11	Decoy Check conducted	28	994

(e) Crime against passengers – Comparison of Crime :

Category	2011-12		2012-13	
	Registered	Detected	Registered	Detected
Murder	2	1	2	1
Dacoity	2	2	2	2
Robbery	35	3	27	23
Theft	502	28	488	298
Snatching	71	3	82	22
Drugging	5	—	2	—
Total	617	34	603	346

➤ Crime against passengers decreased by 2.3% during the year 2012-13.

➤ Detection % increased by 1.5% during the year 2012 - 13 as compared to 2011-12.

(f) Action taken by RPF against crime on passengers:

During the year 2012-13, a total of 78 criminals (Pick pocketers – 12, snatchers – 21 & others - 16) 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 working to work out the reported Theft of Passenger Belongings cases in co-ordination with GRP.

(g) Passenger Facilitation by RPF :

Sl.No.	Details	2011-12	2012-13
1	Assistance given to injured passenger on Train journey	312	411
2	Handing over of runaway children	510	419
3	Securing abandoned baggage's	979	1010
4	Seizure of contraband Goods (Narcotic substances, Ganja, Illicit liquid, etc.,)	₹ 10.2 crores in 18 instances	₹ 16.659 Crores in 47 instances
5	Value of smuggled Rice seized and handed over to civil supply authorities.	₹ 5,24,323/-	₹ 5,85,050/-

IV. CRIME AGAINST RAILWAY PROPERTY :

Effective preventive measures taken by RPF/Southern Railway to contain crime against Railway Property and to bring down the incidents of theft/pilferage, resulted in, theft of Railway Property was well under control. Figures of incidents of theft of Railway Property, both Booked Consignments 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	Staff Liability fixed	Tfd. to other Rlys.	undetected	Under Enquiry Value
2011-12	18	9	492571	362321	21 OS	4/71300	—	—	5/58950
2012-13	2	1	5300	3800	1 OS	—	—	—	1/1500

OS – Outsider.

- Theft decreased by 88.9% during the year 2012 -13 as compared to 2011- 12.
- Value of property stolen decreased by 98.9% during the year 2012 -13 as compared to 2011-12.

(ii) Railway Material – Localized cases :

Year	No. of cases reported	No. of cases detected	Property stolen	Property recovered	Total arrest made		Other disposal (SLF, MOF, UD).	Pending enquiry/ value.
					OS	RE		
2011-12	228	217	1042129	935210	266	10	SLF-9/97844 UD-1/8000	1/1075
2012-13	170	150	2544140	2492172	202	3	SLF-2/15000	18/36968

OS – Outsider & RE – Railway Employee

- Theft decreased by 25.4% during the year 2012 -13 as compared to 2011- 12.
- Value of property stolen increased by 144% during the year 2012 -13 as compared to 2011-12.

(b) Performance under Railway Property (Unlawful Possession) Act, 19

This act provides an effective leverage to control crime against Railway Property suspects & criminals by RPF personnel of this railway and the offenders are booked act with seizure of stolen railway property. The performance under this act is as follows

Year	No. of cases registered	Value of stolen property recovered
2011-12	536	₹ 23,12,257/-
2012-13	590	₹ 28,20,143/-

- RP(UP) detection increased by 10.07% during the year 2012-13 as compared to 2011-12.
- Recovery value increased by 21.1% during the year 2012-13 as compared to 2011-12.

V. PERFORMANCE UNDER RAILWAYS ACT, 1989 :

Relentless drives against anti-social elements indulging in illegal sale of reserved berths/seats, hawking, begging, etc., in stations and trains are conducted by RPF personnel. The defaulters are prosecuted under the provisions of this act. The results achieved are furnished under:—

Year	No. of cases booked	Fine realized
2011-12	99366	₹ 5,17,084/-
2012-13	107161	₹ 7,32,519/-

- Registration of cases increased by 7.8% during the year 2012-13 as compared to 2011-12.
- Fine realized increased by 11.07% during the year 2012-13 as compared to 2011-12.

a) Results achieved under Important Railways Act sections during the year 2012-13:

Sl.No.	Offence u/s	No. of persons apprehended	Fine realized
1	Transfer of reserved rail tickets (142)	367	₹ 50/-
2	Unauthorizedly procuring and selling of rail tickets (143)	126	₹ 00/- (77 pending trial).
3	Unauthorized Hawking/Vending (144)	24614	₹ 538/-
4	Alarm Chain Pulling (141)	924	₹ 00/-
5	Footboard travelling (156)	15661	₹ 3,170/-
6	Gents travelling in ladies coaches (162)	1108	₹ 55/-
7	Smoking (167)	4838	₹ 385/-

veillance is kept over the provisions of this

Arrest made	RE
1	14
2	6

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-12:

all tickets, cornering of over this railway and during the year 2012-13 is

ount realized:

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2011-12:

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Fine realized:

50/-

00/- (77 pending trial).

538/-

00/-

3,170/-

55/-

385/-

VI. RPF ASSISTANCE TO TICKET CHECKING STAFF:

RPF is providing necessary assistance to commercial branch in ticket checking. The following are the details of ticketless travellers apprehended and fine amount realized for the year 2011-12 & 2012-13 :—

Year	RPF staff deployed	No. of ticketless apprehended	Amount of fine realized
2011 – 12	9665	501897	₹ 15.744 Crores
2012 – 13	9135	474620	₹ 15.907 Crores

VII. RPF DOG SQUAD:

i) Southern Railway RPF is the pioneer in forming of RPF Dog Squad over Indian Railways. The Southern Railway Dog Squad was formed in the year 1958 on the pattern of Madras State Police Kennel and later expanded. At present, Southern Railway has 12 Kennels with a total strength of 32 dogs consisting of Labrador, Doberman and German Shepard. 50 percent of the existing strength of RPF dogs comprise of Sniffer dogs, trained to detect explosive.

ii) **Zonal RPF Dog Training Centre** is functioning at Podanur with all equipments and infrastructure facility for imparting basic training to sniffer and tracker dogs of Indian Railways. This is first of its kind on Indian Railways and merits as a significant achievement towards modernization of the Force. So far, 153 Dogs (108 Sniffer and 45 Tracker Dogs), of various Zonal Railways were trained in this training centre. 08 dogs from all Indian Railways are presently undergoing initial training at ZTC/Podanur.

VIII. MAIN EVENTS DURING THE YEAR 2012 – 13 :

- ❖ On 19-05-2012, a “Career Guidance Programme” was organized by RPF Chennai Division for the benefit of the wards of RPF in which, 50 wards had participated and benefited.
- ❖ On 26-06-2012, an awareness programme against **drug abuse and illegal trafficking** was organized over Southern Railway in premises as well as in trains along with GRP, Health Unit staff.
- ❖ The 19th Inter Railway RPF Hockey Championship-2012 was held from 16-10-12 to 20-10-12, at Chennai by RPF/S.Rly. 07 Zonal Railways including Southern Railway had participated. RPF/Southern Railway won the winners title and N.Rly., won the runner-up amidst stiff competition.
- ❖ The Inter Railway RPF Dog competition was held at Bengaluru on 16-10-12 and 17-10-12 in which 37 dogs participated from all over Indian Railways. Dog Sona (Tracker) with handler Sri Prabhu, CON/ICF won the 2nd place and Dog Thippu (Tracker) with handler Sri M.K.Asokan, ASIPF/Ernakulam of Trivandrum Division won 3rd Prize. Southern Railway & ICF won the All over Championship rolling shield and also won the shield for best team.
- ❖ On 15-12-12, Hon'ble Chief Minister of Tamil Nadu flagged-off the inaugural Duranto Express train from Chennai Central to Trivandrum & Madurai at Chennai Central Railway station with the participation of GM/S.Rly, DRM/Chennai, PHODs/CHODs of Southern Railway. RPF/Chennai Division in co-ordination with GRP/Local Police provided elaborate bandobust.

As a part of International Women's day on 08-03-13, Sr.DSC/MAS organized a mass awareness programme for the women passengers. He mobilized all the women HCs/Cons. working in Chennai Division and distributed about 10,000 awareness pamphlets containing tips for safe travelling in trains.

- ❖ “Attukkal Pongala” a famous / traditional festival held every year at the temple situated nearby Trivandrum Railway station, was celebrated on 26-02-2013. About 27 Lakhs women devotees gathered at the temple to celebrate the festival. Elaborate bandobust arrangements were made by RPF at Trivandrum Railway station in co-ordination with GRP, Local Police & Civil authorities. The festival went off peacefully without any untoward incident in Railway premises and no disruption to any train service in this regard.

- ❖ On 14 occasions RPF Southern Railway provided necessary bandobust a Examinations held at various centres over S.Rly for various categories includi Answer sheets and RPF escorts from storage Point to Examination centres a incidents.
- ❖ In view of huge inflow of pilgrims from all over the country to Velankanni festival to 08-09-12, RPF in co-ordination with GRP/Local Police and sister departmen security arrangements to the passengers which includes escorting of all train Velankanni, CCTV coverage, checking of passengers baggages by DFMD, sniffer dogs, deployment of RPF commandos, fire /stampede preventing pre

IX. PARADES CONDUCTED :

- ❖ Independence Day Parade was conducted at HQrs. Office/S.Rly. on 15-08
- ❖ 28th RPF Raising Day Parade was conducted on 25-09-12.
- ❖ Republic Day Parade was conducted at HQrs. Office/S.Rly. on 26-01-13
- ❖ A RPF contingent took part in the Republic Day Parade conducted at Triv

X. ACHIEVEMENTS MADE DURING THE YEAR 2012-13:

(a) IN CRIME DETECTION:

- RPF / Madurai Division busted an organized criminal gang numbering 1 gateman with the recovery of stolen released engineering materials worth Melakonnakulam Section of Madurai Division.
- Stolen OHE materials (wire) from ongoing Railway Electrification projec railway stations and in various locations over Madurai Division, worth ₹ 1,27 arrest of 6 criminals.
- Theft of elastomeric copper cables from Loco Works, Perambur of Chennai was detected with the arrest of 03 female contract labours and 2 rece
- Theft of 07 Nos. of Railway Signal Point Motors and other Railway enginee over Chennai Division totally worth ₹ 54,800/- were recovered with the arr

(b). In System Improvement:

- Presentation on **leadership qualities** was organized for the enhance the participation of Eminent teaching faculty of IIM, Ahmadabad Interac
- **Security mock drills (on 03 occasions)** on the pretext of placing bomb conducted to gauge the level of preparedness of RPF including various mock-drills like Train Accident at UMLC etc. were also organized in which sustaining.
- Workshop on **handling of modern gadgets** was conducted with the Tamilnadu Police Commando School, Chennai for the benefit of RPF sta
- Workshop on **safe handling of arms and ammunitions** for RPF was or accidental fire during handling of weapons.
- Capsule Course on **VIP security** was organized for RPF staff with the p SSB, CID, Chennai at Special Branch Training School, Chennai.

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- On 27-12-12 & 28-12-12, Sr.DSC/Chennai organized an **interaction meeting** between Judicial Officers and RPF Officers with the participation of 81 Judicial Magistrates. They were briefed about the organizational setup of RPF/GRP, its role of function in Railways, etc.
- A seminar on **superannuation benefits** was organized on 18-09-12 by RPF /Chennai Division for the benefits of RPF staff retiring on superannuation.
- A seminar on **Anti-corruption** amongst supervisory officers was organized by RPF/Chennai Division on 30-10-12 as a part of observance of **Vigilance Awareness Week**.
- Study on working system of Intercommunication in coaches with the assistance of a mechanical expert to educate the Post/Out Posts incharges was undertaken to tackle the ACP cases.
- Method of taking finger print of the accused with the assistance of one Inspector/ Finger Print Bureau, Chennai to educate the Post/Out Post incharges was undertaken in order to rely-upon finger print expert evidence.
- Sr.DSC/MAS organized a programme to create awareness among the RPF staff about the various signal equipments in the field which are prone for theft and tampering by anti-social elements. ADSTE/MAS explained on field, the various kinds and working of the equipments and the consequences if they are meddled.

c. In Passenger Awareness:

- On 11-02-13, RPF/Chennai Division organized an awareness programme with the sponsorship of students of Velammal Engineering College, Chennai and with the participation of operating, commercial and GRP staff at Chennai Central. The students exhibited a glittering skit programme in all platforms of the station about safety, security and cleanliness in trains/ railway stations. Awareness pamphlets containing precautions to be taken during rail journey was also distributed to the passengers.
- Bulk SMS campaign covering 3,86,000 Airtel customers in the Kerala Region with the text "**Carrying crackers and inflammable articles in trains is a punishable offence. Please avoid it**" was launched.
- Stern action including awareness programmes against stone pelting on the running trains was taken by forming special teams of RPF, the offenders were apprehended and dealt under relevant provisions of Railways Act.

d. IN SAFETY HAZARD:

- Organized a fire mock drill in co-ordination with Tamilnadu fire service. DFO/Chennai, sensitized the Railway employees on fire safety, fire prevention and responding to emergency.
- As advised by CRB/NDLS, a special safety drive to prevent fire in trains was organized in all divisions of this Railway by RPF. During the drive period, two wheelers booked under parcel / luggage with petrol, carrying of dangerous / inflammable articles, observance of booking of parcels / luggage under red tariff of commercial manual were specially targeted. In the drive, 9 defaulters were apprehended for carrying of inflammable articles (Kerosene and fire crackers) and prosecuted u/s 164 Railways Act with the realization of fine ₹ 3,100/-. Such drives are being continued.
- Frequent awareness campaigns are organized by RPF in co-ordination with Safety Branch at unmanned level crossings to create awareness among road users. Ambush checks conducted against negligently crossing UMLC resulted in prosecution of 124 defaulters u/s 161 Railways Act getting a fine of ₹ 83,500.
- Special safety drives against carrying of fire crackers and inflammable articles in trains to prevent fire were conducted during Deepavali season. Bulk SMS campaign covering 3,86,000 Airtel customers in Kerala region cautioning the public was launched. During the drive period, defaulters were apprehended and prosecuted u/s 164 & 165 RA with the realization of fine ₹ 7,500/- and ₹ 5,000/- respectively.
- Awareness campaign/random check in trains was organized against lighting of camphor by Ayyappa devotees in worshipping Irumudi of Lord Ayyappa to prevent fire hazard.

XI. Drive against unauthorized Alarm Chain Pulling affecting punctual

During the year 2012 - 13, 2322 instances of Alarm Chain Pulling were reported. Of which, 1362 instances were justified as due to commercial/operational/mechanical/genuine reasons. In 960 unauthorized instances, 924 defaulters were named under RA, 1989 realizing a fine of ₹ 4,84,900/- from them. The remaining 36 instances were reported in mid-section where no RPF/GRP available. However, ambush checks are conducted by RPF in section prone for ICC pulling, to contain the menace.

XII LC Gate Accidents:

During the year 2012-13, 693 instances of **L.C. Gate accidents** involving 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 ₹ 7,48,300/- was realized as fine. This was also realized from the owners of the vehicles towards the cost of damage to the gate components, etc.

XIII Action against defaulters indulging in train hold ups during Rail trade unions, etc:

RPF/Southern Railway is taking stern action against the persons indulging in train hold ups during Rail trade unions, etc., to maintain the punctuality of trains and the defaulters are prosecuted u/s 174 of Railways Act duly obtaining complaints from Railway Station Spot officials. During the year 2012- 13, 309 cases were registered u/s 174 Railways Act against defaulters.

Action against the menace of begging in trains by eunuchs: Following the menace of begging by eunuchs in trains and Railway premises, special drives were organized over this Railway to eradicate the nuisance created by the eunuchs to the train passengers in public in trains. During the drive, 54 eunuchs who indulged in begging in trains were apprehended and prosecuted under relevant section of Railways Act and a fine of ₹ 11,700/- was realized from them.

XIV Sports :-**ACHIEVEMENTS IN SPORTS****Inter Railway Tournament**

Sl.No.	Event/Team Manager	Venue	Date of conduct	Place
1	2	3	4	5
1	Football	Liluah, Howrah Division.	24.06.12 to 01.07.12	F
2	Hockey	Chennai, Southern Railway	16.10.12 to 19.10.12	V
3	Kabaddi	Gorakhpur/ NER	20.02.13 to 25.02.13	
4	Volley Ball	Jaipur, NWR	18.12.12 to 21.12.12	Il
5	Athletics	Secunderabad/ SC.Rly.	27/11/12 to 29/11/12	V
6	Dog Squad	SC Rly./SWR	Conducted from 16.10.12 & 17.10.12	D

trains:

Of which, 1362 instances were justified as due to commercial reasons and other and prosecuted u/s 141 s were reported in mid- ted by RPF in section

vehicles were reported RPF and prosecuted u/ ₹22,67,294/- was also gate components, etc.

by political parties,

ain hold ups during Rail and the defaulters are spot officials. During the defaulters.

complaints against the s were organized over public in trains. During osecuted under relevant

Sl.No.	Event/Team Manager	Venue	Date of conduct	Place
1	2	3	4	5
1	Football	Liluah, Howrah Division.	24.06.12 to 01.07.12	F
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5	Athletics	Secunderabad/ SC.Rly.	27/11/12 to 29/11/12	V
6	Dog Squad	SC Rly./SWR	Conducted from 16.10.12 & 17.10.12	D

ona of Place & ppu of Place er all nance y. and st Team Shield p were ed.

Sl.No.	Event/Team Manager	Venue	Date of conduct	Per formance	AIPDM
1	2	3	4	5	6
7	Scientific Aid Photography & Videography	Bhopal ..	05.12.12 to 07.12.12	1st place	..
8	Shooting	Jhansi/NCR ..	Conducted from 22.9.12 to 26.09.12 at Jhansi	Winner S. Rly. 5 staff won 4Gold, 2 Silver and one Bronze.	..
9	Anti sabotage check competition	Guwahati/ NFR ..	From 17.01.13 to 19.01.13	Winner	..

XV. Bomb threat : During the year 2012-13, 13 anonymous bomb threat calls in trains/premises were received and promptly 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 71 occasions during the travel/visit of VVIPs/VIPs like Governors, 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 Railway, Shri T.S.Gopakumar, IPF/SIB/Trivandrum was awarded with the coveted Indian Police Medal for his meritorious service, on the eve of Independence Day - 2012.

XVIII. Eviction :

During the year 2012 – 13, on 19 occasions RPF/S.Rly. rendered all assistance to the Engineering branch in evicting encroachments from the Railway land in co-ordination with Local Police/GRP.

XIX. WELFARE :

- Handicraft Centre with sufficient number of sewing machines and membership strength of 25 to 30 RPF spouse/wards is functioning at Perambur.**
- Various welfare measures for RPF staff like blood donation camp, HIV awareness were organized by all divisions.**
- Various seminars like Stress Management, attitudinal changes on good habit and drug abuse were organized to sensitize RPF Post.**
- A seminar on superannuation benefits was also arranged for the benefits of RPF staff those are due for superannuation in this year.**
- 186 wards of Security Branch staff who are pursuing professional degree courses are granted with scholarship of ₹ 2500/- each and 01 ward who is pursuing Diploma courses were granted with scholarship of ₹ 2000/- from CSBF.**
- 02 wards of Security Branch staff who are differently abled were given assistance through CSBF. Medical assistance from SBF for 07 cases has been considered and granted.**
- During the Raising Day celebration one parade ground measuring about 12800 sq. mtrs at Ayanavaram exclusively for the use of RPF was inaugurated by GM/S. Rly. in the presence of CSC/S.Rly. and other PHODs/HODs on 25.09.2012.**

XX RSKN:

S.No.	Type of payment	No. of cases
1	Ex-gratia lumpsum grant	16
2	Settlement	110
3	Vibath Shakaya Kosh (VSK)	10

Amount (₹)
15,15,000
6,60,000
1,90,000

XXI TRAINING:

The RPF Training Centre, Trichy is only the training centre for the Sec Railway and caters to the need if ICF and S.W.Rly. also. The normal cap 300 trainees at any time of the day. The following staffs of different rank trained during the year 2012-13 of various courses.

1. RPF/TC/KG/TPJ - 2071
2. JR/RPF Academy/LKO - 24 IPFs/SIs

Department on Southern of the Training Centre is Constable to IPFs were

XXII Grant of Money Reward

Sl.No.	Details
1	Sanctioned by Railway Board
2	Sanctioned by GM/AGM & ADGM/S.Rly.
3	Sanctioned by CSC/Dy.CSC & SO to CSC
4	Sanctioned by Sr.DSC/DSCs
	Total

Amount (₹)
179500
76500
234000
150000
640000

XXIII SABOTAGE

- | | | |
|---------|---|----------|
| 2010-11 | - | 02 cases |
| 2011-12 | - | 05 cases |
| 2012-13 | - | 03 cases |

XXIV Conclusion :

RPF/Southern Railway is striving had to ensure that the passengers tra its jurisdiction.

th full sense of security in



तिरसठ वर्ष का सार
SIXTY THREE YEARS
OF
SUMMARY

SOUTHERN RAILWAY

Details	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58
Assets—(As on 31st March)								
Capital-at-charge (₹ in crores)	115.28	115.65	113.05	118.50	124.81	133.02	145.15	160.10
Total Investment (₹ in crores)	..	..	..	130.00	139.65	152.57	169.26	190.19
Route Kilometres—Electrified	..	29.19	29.19	29.19	29.19	29.19	29.19	29.19
36.08								
Total	9,656.02	9,681.41	9,695.32	9,750.40	9,841.97	9,757.15	9,817.05	9,912.39
Running track Kilometres Electrified	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39
Total	9,811.15	9,836.54	9,850.96	9,905.54	9,997.10	9,912.48	9,989.57	10,085.27
Number of Stations	1,234	1,237	1,238	1,243	1,255	1,252	1,262	1,270
Rolling Stock—								
Locomotives	1,410	1,412	1,430	1,395	1,420	1,419	1,501	1,515
Steam	..	..	..	..	..	..	..	..
Diesel	..	..	..	..	..	..	..	..
Electric	4	4	4	4	4	4	4	4
Passenger carriages	3,020	3,041	3,066	3,219	3,260	3,227	3,403	3,447
Coaching stock	72	72	72	96	96	96	96	96
Electric Multiple Unit	..	..	..	..	..	..	..	..
Coaches	..	..	..	..	..	..	..	..
Rail cars	9	9	8	8	18	18	17	17
Other coaching vehicles	997	1,011	1,022	1,033	1,108	1,101	1,178	1,178
Wagons	24,074	24,429	26,839	28,080	28,895	29,054	31,902	33,443
Staff—								
No. of employees (in 1000s)	139.4	145.0	147.5	152.3	153.5	158.4	158.5	161.7
Cost of staff (in crores of Rs.)	17.24	18.88	19.00	20.25	20.91	22.87	22.76	25.00
Average cost per employee (in Rs.)	1,240	1,376	1,345	1,351	1,367	1,467	1,436	1,548
For the year—								
Transportation Out-put—Train-kilometres excluding Departmental (in millions)—								
Passenger and proportion of mixed	36.65	37.31	37.38	37.94	39.06	39.42	36.62	36.62
EMU	..	..	..	..	..	..	..	..
MEMU	..	..	..	..	..	..	..	..
DEMU	..	..	..	..	..	..	..	..
Goods and proportion of mixed	18.64	18.56	18.48	17.96	18.60	19.77	20.52	20.52
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—								
Vehicle kilometres	568	581	581	576	591	597	610	616
EMU	..	..	..	..	..	..	..	..
MEMU	..	..	..	..	..	..	..	..
DEMU	..	..	..	..	..	..	..	..
Wagon kilometres	617	617	618	616	644	686	731	789
Volume of Traffic—								
Passenger Traffic—								
No. of passengers originating (in millions)	272	226	216	205	211	217	225	228
Passenger kilometres (in millions)	12,151	11,742	10,887	10,032	11,073	10,696	11,191	10,651
Passenger earnings (in crores of Rs.)	18.25	21.10	18.63	17.44	17.68	18.83	20.11	19.69
Average lead (in kilometres)	44.1	50.1	50.3	48.5	52.2	48.0	49.5	46.2
Average rate per passenger kilometres (in paise)	1.50	1.80	1.71	1.74	1.60	1.76	1.80	1.85
Goods Traffic—								
Tonnes originating (in millions)—								
Revenue earning Traffic	10.9	10.6	8.8	8.8	9.0	9.2	9.4	10.3
Total traffic	11.9	11.3	10.9	11.1	11.4	12.4	13.1	15.0
Net tonne kilometres (in millions)—								
Revenue Earning Traffic	4,840	4,676	4,884	5,003	5,370	5,966	6,204	6,929
Total Traffic	5,313	5,243	5,433	5,530	5,879	6,519	6,956	7,715
Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)	20.7	21.2	19.0	19.6	20.6	23.5	24.9	29.1
Average lead (in kilometres) (Revenue)	343.6	363.7	384.5	389.0	396.1	405.1	396.5	387.5
Average rate per tonne kilometre (in paise)	4.27	4.54	3.89	3.92	3.84	3.94	4.02	4.19
Quantity of fuel consumed by locomotives—								
Coal (in thousand tonnes)	1,378	1,436	1,461	1,461	1,562	1,664	1,839	2,001
Diesel oil (in kilometres)	..	..	..	..	..	..	..	689
Stores purchases (in crores of Rs.)—								
Indigenous	9.22	7.89	8.79	7.27	8.94	9.29	13.78	12.17
Total	12.05	11.93	13.13	11.13	16.57	13.35	23.46	23.22
Operating revenue and expenditure (in crores of Rs.)—								
Revenue—Gross receipts	44.25	46.82	N. A.	N. A.	43.25	47.93	49.98	55.03
Working expenses including depreciation etc. and miscellaneous expenses	34.54	35.03	N. A.	N. A.	39.19	42.86	45.43	51.31
Net revenue receipts	9.71	11.79	N. A.	N. A.	4.06	5.07	4.55	3.72
Percentage of net revenue receipts to the capital-at-charge and investment from capital fund	8.43	10.20	N. A.	N. A.	3.25	3.82	3.13	2.15
Operating ratio (per cent)	78.65	74.35	N. A.	N. A.	80.53	90.15	88.20	92.77
Dividend to General Revenues	4.54	4.57	N. A.	N. A.	4.83	4.99	5.04	6.65
Payments to States in lieu of tax on Passenger fares	..	..	..	..	..	..	..	..
Surplus (+)/Deficit (—)	(+) 5.17	(+) 7.12	N. A.	N. A.	(—) 0.77	(+) 0.08	(—) 0.49	(—) 2.93

तिरसठ वर्ष का सार

	59	1959-60	1960-61	1961-62
Assets—(As on 31st March)				
Capital-at-charge (₹ in crores)	181.30	189.40	211.20	262.85
Total Investment (₹ in crores)	224.62	239.00	262.85	292.19
Route Kilometres—Electrified	29.19	29.19	29.19	29.19
36.08				
Total	9,916.71	9,921.50	9,944.25	10,085.27
Running track Kilometres Electrified	58.39	58.39	58.39	58.39
Total	10,196.78	10,295.23	10,463.52	10,637.36
Number of Stations	1,305	1,315	1,337	1,337
Rolling Stock—				
Locomotives	1,662	1,644	1,714	1,714
Steam	..	..	..	..
Diesel	..	..	..	..
Electric	4	4	4	4
Passenger carriages	3,657	3,724	3,840	3,840
Coaching stock	96	96	96	96
Electric Multiple Unit	..	..	..	..
Coaches	..	..	..	..
Rail cars	30	30	30	30
Other coaching vehicles	212	1,217	1,212	1,381
Wagons	36,165	36,024	37,089	37,089
Staff—				
No. of employees (in 1000s)	163.7	161.6	161.7	161.7
Cost of staff (in crores of Rs.)	27.14	29.58	30.46	30.46
Average cost per employee (in Rs.)	1,662	1,823	1,888	1,888
For the year—				
Transportation Out-put—Train-kilometres excluding Departmental (in millions)—				
Passenger and proportion of mixed	39.04	38.85	39.36	39.36
EMU	..	..	..	..
MEMU	..	..	..	..
DEMU	..	..	..	..
Goods and proportion of mixed	22.61	22.87	23.72	23.72
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—				
Vehicle kilometres	618	631	644	644
EMU	..	..	..	..
MEMU	..	..	..	..
DEMU	..	..	..	..
Wagon kilometres	873	888	925	925
Volume of Traffic—				
Passenger Traffic—				
No. of passengers originating (in millions)	237	252	256	256
Passenger kilometres (in millions)	10,862	11,719	12,105	12,105
Passenger earnings (in crores of Rs.)	20.35	22.06	25.54	25.54
Average lead (in kilometres)	45.5	46.1	46.8	46.8
Average rate per passenger kilometres (in paise)	1.87	1.88	2.11	2.11
Goods Traffic—				
Tonnes originating (in millions)—				
Revenue earning Traffic	10.7	11.8	12.1	12.1
Total traffic	15.8	16.6	16.1	16.1
Net tonne kilometres (in millions)—				
Revenue Earning Traffic	7,386	7,755	8,411	8,411
Total Traffic	8,309	8,733	9,379	9,379
Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)	31.9	34.0	35.8	35.8
Average lead (in kilometres) (Revenue)	391.0	400.5	427.1	427.1
Average rate per tonne kilometre (in paise)	4.32	4.38	4.26	4.26
Quantity of fuel consumed by locomotives—				
Coal (in thousand tonnes)	2,127	2,187	2,348	2,348
Diesel oil (in kilometres)	822	888	925	925
Stores purchases (in crores of Rs.)—				
Indigenous	11.64	11.04	21.99	21.99
Total	18.50	20.56	23.75	23.75
Operating revenue and expenditure (in crores of Rs.)—				
Revenue—Gross receipts	58.68	62.82	68.57	68.57
Working expenses including depreciation etc. and miscellaneous expenses	53.58	56.43	60.48	60.48
Net revenue receipts	5.10	6.39	8.09	8.09
Percentage of net revenue receipts to the capital-at-charge and investment from capital fund	2.81	3.37	3.83	3.83
Operating ratio (per cent)	89.05	88.77	85.47	85.47
Dividend to General Revenues	7.00	7.31	8.29	8.29
Payments to States in lieu of tax on Passenger fares	..	..	..	..
Surplus (+)/Deficit (—)	(—) 1.99	(—) 0.92	(—) 2.32	(—) 2.32

SOUTHERN RAILWAY

SIXTY THREE

Details	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-	1984-85	1985-86	1986-87	1987-88
Assets— (As on 31st March)														
Capital-at-charge (Rs. in crores)	390.82	431.99	474.61	502.58	517.97	530.77	555.32	596.61	635.89	680.5	784.82	848.08	921.29	983.90
Total Investment (Rs. in crores)	485.02	529.45	577.37	611.21	625.15	647.40	677.82	728.10	777.77	835.4	974.29	1,055.15	1,157.41	1,257.41
Route Kilometres Electrified														
Total ..	166.44	166.44	166.44	166.44	166.44	166.44	255.18	335.18	343.96	385.2	529.01	598.39	598.39	598.39
Running track Kilometres Electrified	7,452.32	7,452.32	7,448.73	7,578.73	6,488.76	6,488.76	6,629.24	6,702.53	6,702.53	6,700.1	6,722.30	6,728.66	6,711.76	6,756.36
Total ..	220.66	220.66	220.66	220.66	220.66	220.66	406.08	567.08	572.56	672.1	960.29	1,102.77	1,137.65	1,138.65
Number of Stations	8,262.59	8,276.74	8,297.96	8,443.62	7,375.25	7,387.73	7,537.76	7,537.76	7,629.45	7,660.1	7,756.18	7,772.47	7,790.45	7,836.05
Rolling Stock—	1,017	1,016	1,000	1,002	883	881	887	884	882	81	868	861	862	852
Locomotives														
Steam	943	934	911	916	799	792	761	702	592	3	364	358	336	229
Diesel	244	267	278	278	191	205	213	228	266	2	308	316	317	325
Electric	20	20	20	20	20	20	20	20	20	0	20	27	41	51
Coaching stock														
Passenger carriages	3,777	3,856	3,820	3,727	3,899	3,880	3,879	3,834	3,727	3,6	3,766	3,811	3,812	3,793
Electric Multiple Unit	171	171	171	171	171	192	272	348	358	3	353	371	371	371
Coaches.														
Rail cars	18	18	18	13	11	11	14	11	7	7	7	10	10	10
Other coaching vehicles	1,066	1,049	1,029	988	943	928	902	893	845	8	809	793	768	746
Wagons	34,173	33,863	35,104	30,029	31,723	31,062	31,005	30,032	29,588	28,5	265,803	26,325	25,885	24,886
Staff—														
No. of employees (in 1000s)	135.0	136.0	137.7	138.6	124.9	129.5	135.2	136.3	137.6	131	139.7	141.3	142.2	142.5
Cost of staff (in crores of Rs.)	57.96	73.75	88.40	92.30	91.42	87.99	110.75	128.46	147.84	180.	241.01	264.11	325.55	402.1
Average cost per employee (in Rs.)	4,314	5,450	6,419	6,668	6,528	7,613	8,443	9,515	10,784	13,2	17,342	18,686	23,021	28,216
For the year—														
Transportation Out-put—Train-kilometres excluding Departmental (in millions)—														
Passenger and proportion of mixed	30.06	25.20	33.82	35.54	35.59	32.25	32.43	33.72	33.23	35	33.38	38.02	38.57	39.35
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	14.12	144.99	15.65	15.58
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—														
Vehicle kilometres	579	529	642	697	679	631	642	661	689	7	763	769	800	856
EMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..
MEMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..
DEMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wagon kilometres	805	802	865	913	808	655	646	628	747	..	817	817	945	962
Volume of Traffic—														
Passenger Traffic—														
No. of passengers originating (in millions)	253	218	267	298	310	331	302	333	346	..	279	283	296	307
Passenger kilometres (in millions)	11,415	10,700	12,217	14,420	15,448	16,278	16,135	18,128	19,294	20,2	19,898	20,821	20,952	21,904
Passenger earnings (in crores of Rs.)	38.4	41.5	49.2	55.4	60.3	62.2	67.2	78.1	96.5	11	141.0	161.61	180.81	194.89
Average lead (in kilometres)	44.7	48.29	48.80	47.70	49.20	48.5	52.5	53.6	54.9	15	69.7	71.8	..	69.1
Average rate per passenger kilometre (in paise)	3.36	3.88	3.58	3.82	3.88	3.82	4.16	4.31	5.00	6	7.09	7.76	8.63	8.90
Goods Traffic—														
Tonnes originating (in millions)—														
Revenue earning Traffic	12.9	13.0	13.4	14.2	13.0	11.0	10.9	10.9	12.9	1	13.2	133.9	13.9	14.2
Total Traffic	13.7	13.8	14.6	15.5	14.0	11.9	11.8	11.8	13.9	1	14.4	15.2	15.3	15.9
Net tonne kilometres (in millions)—														
Revenue earning traffic	8,726	9,052	9,643	10,237	9,101	7,996	7,761	7,686	9,575	9,1	11,041	11,829	11,724	11,638
Total traffic	9,324	9,664	10,323	10,855	9,647	8,386	8,190	8,067	9,846	9,2	11,327	12,129	11,944	11,932
Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)	55.1	67.7	84.7	90.78	83.94	72.46	79.90	84.92	133.72	155	208.66	240.01	257.36	291.50
Average lead (in kilometres) (Revenue)	433.0	434.0	437.0	428.0	374.0	350.0	342.0	333.0	358.0	37	390	377	362	341
Average rate per tonne kilometre (in paise)	6.31	7.47	8.52	8.87	8.70	8.64	9.76	10.53	13.58	16	18.90	20.29	21.95	25.05
Quantity of fuel consumed by locomotives—														
Coal (in thousand tonnes)	1,128	1,023	1,214	1,200	1,120	934	892	868	635	..	426	390	340	262
Diesel oil (in kilolitres)	131,524	133,660	140,010	148,840	125,039	97,747	102,627	106,091	117,688	127	138,033	144,817	144,996	153,677
Stores purchased (in crores of Rs.)—														
Indigenous	40.0	53.75	70.45	69.15	52.40	49.78	82.14	118.33	136.01	147	162.27	179.97	204.46	230.93
Total	44.9	62.60	76.11	74.63	53.40	51.28	86.51	124.37	145.98	156	173.23	199.17	222.61	247.77
Operating revenue and expenditure (in crores of Rs.)—														
Revenue—Gross receipts	106.67	122.67	151.34	165.55	149.15	155.44	172.11	192.03	263.34	311	394.14	464.97	506.18	554.09
Working expenses including depreciation etc. and miscellaneous expenses.	109.58	131.39	160.66	180.49	168.26	176.70	207.81	236.57	305.13	361	490.14	556.06	646.84	716.16
Net revenue receipts	(-) 2.91	(-) 8.72	(-) 9.32	(-) 14.94	(-) 19.11	(-) 21.26	(-) 35.70	(-) 44.54	(-) 41.79	(-) 50	(-) 96.00	(-) 91.09	(-) 123.69	(-) 149.22
Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.	(-) 0.56	(-) 2.0	(-) 2.0	(-) 3.2	(-) 3.7	(-) 4.13	(-) 6.53	(-) 7.44	(-) 6.84	(-) 7.1	(-) 12.40	(-) 11.06	(-) 13.42	(-) 14.99
Operating ratio (per cent)	102.05	106.04	105.7	109.70	112.8	113.7	120.74	123.19	115.87	111	124.36	119.59	130.08	129.50
Dividend to General Revenues	17.99	20.20	21.26	22.34	22.60	22.91	22.25	33.57	36.16	41	46.35	50.90	55.67	61.42
Payments to States in lieu of tax on Passenger fares.	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Surplus (+) / Deficit (-)	(-) 20.90	(-) 28.92	(-) 30.58	(-) 37.28	(-) 41.71	(-) 44.86	(-) 58.51	(-) 78.11	(-) 71.15	(-) 94	(-) 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 1,399.56	1,195.87 1,559.58	1,320.46 1,741.93	1,423.42 1,892.06	1,796.23 2,330.42	1,844.87 2,641.17	1,869.20 2,912.38	1,831.59 3,309.55	1,780.38 3,819.04	2,177.34 4,630.81	2,555.48 5,331.98	2,965.63 5,927.01	3,375.13 6,534.54	3,773.92 7,187.95	4,142.37 7,900.54	Assets— (As on 31st March) Capital-at-charge (Rs. in crores) Total investment (Rs. in crores)
598.39 6,757.76	649.60 6,924.04	775.56 6,924.04	959.09 6,928.26	959.09 7,009.00	972.56 7,020.55	1,001.7 7,050.97	1,115.80 7,049.47	1,227.74 7,040.49	1,259.29 7,009.51	1,316.04 7,145.88	1,352.05 7,144.03	1,352.05 7,164.83	1,483.91 7,197.13	1,558.56 7,192.88	Route Kilometres Electrified Total
1,149.01 7,849.89	1,273.77 8,049.4	1,509.34 8,059.52	1,797.23 8,062.06	1,797.23 8,142.80	1,827.42 8,171.53	1,854.62 8,211.20	2,049.76 8,212.99	2,257.61 8,223.87	2,339.12 8,244.86	2,468.35 8,427.7	2,538.23 8,494.40	2,538.23 8,593.64	2,671.63 8,658.94	2,748.92 8,689.71	Running track Kilometres Electrified Total
845 171	845 168	832 138	831 117	821 75	813 41	802 10	786 10	774 10	772 10	769 * 10	757 10	757 10	754 10	752 10	Number of stations. Rolling Stock— Steam ..
346 73	364 102	374 107	388 112	373 127	398 145	421 149	434 150	436 155	487 171	516 184	512 215	527 223	559 212	538 224	Diesel .. Electric ..
3,919 *371	3,958 378	4,068 389	4,233 392	4,452 415	4,574 418	4,559 449	4,632 477	4,863 512	5,012 537	4,869 592	*4,962 595	5,152 603	5,264 627	5,495 603	Locomotives Passenger carriages Electric Multiple Unit coaches.
4 696	4 641	4 610	4 573	4 535	4 523	4 505	4 519	2 531	.. 544	2 * 517 *	2 * 281	2 271	2 273	2 270	Rail cars .. Other coaching vehicles
24,334	23,903	24,693	24,402	23,536	21,016	17,956	16,280	15,311	15,629	16,475	15,888	14,732	13,558	13,031	Coaching stock Wagons Staff—
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	No. of employees (in 1000s)
463.5	513.5	560.1	611.5	684.1	795.39	880.62	993.57 **	1,114.70	1,425.99	1,587.35	1,653.20	1,816.72	1,822.43	1,893.43	Cost of staff (in crores of Rs.)
32,148	35,079	38,150	40,826	45,886	550.97	616.17	70,784 **	80,075	1,04,435	1,16,397	1,21,214	1,360.72	1,39,636	1,49,003	Average cost per employee (in Rs.)
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	For the year— 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
876	890	902	913	944	954	1,022	1,065	1,073 *	1,133	1,170 *	1,210	1,296	1,373	1,435	Goods and proportion of mixed Vehicle and wagon K.Ms. (excluding dpt. mental and brake-vans) (in millions)—
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	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— Passenger Traffic—
22,097	23,637	25,044	27,021	25,017	24,115	27,224	29,880	31,998	35,328	37,298	40,458	44,968	46,725	46,867	Not passengers originating (in millions) Passenger kilometres (in millions)
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	Passenger earnings (in crores of Rs.)
69.5	76.0	77.8	76.2	78.7	76.6	70.31	*75.83	79.5 **	81.4	82.73	92.05	93.24	87.28	96.14	Average lead (in kilometres)
10.69	10.36	11.69	12.48	15.50	18.53	*19.14	19.94	20.35	21.68	22.61	23.36	23.51	24.67	28.69	Average rate per passenger. K.M. (in paise)
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— Tonnes originating (in millions)—
18.4	18.8	20.0	20.98	21.97	20.1	20.39	22.20	24.55	29.00	30.95	30.94	32.11	27.27	24.86	Revenue earning traffic Total traffic
11,906	11,998	13,200	13,201	13,622	129.91	12,931	13,864	15,018	15,251	14,629	15,788	16,623	15,506	15,924	Net tonne K. M. (in millions)— 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	1,210.66	1,256.59	Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)
346	351	342	353	350	349	331	330	304	303	311	311	312	331	331	Average lead (in kilometres)
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	Average rate per tonne kilometre (in paise) Quantity of fuel consumed by locomotives—
212	205	177	168	128	40	15.46	2.34	2.19	2.10	2.18	2.16	2.59	1.90	1.74	Coal (in thousand tonnes)
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	Diesel oil (in kilolitres) Stores purchased (in crores of Rs.)—
307.55	347.46	427.42	457.83	587.05	480.06	456.31	498.43	696.56	1,024.92	920.15	766.61	992.02	*934.29	1,246.79	Indigenous Total
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	Operating revenue and expenditure (in crores of Rs.)—
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	Revenue—Gross receipts working expenses including depreciation etc. and miscellaneous expenses.
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	Net revenue receipts Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.
(-)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	Operating ratio (per cent) Dividend to General Revenues Payments to States in lieu of tax on Passenger fares.
(-) 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	Surplus (+)/Deficit (-)
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	
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	
(-) 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	

* Revised.

Details	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13
Assets—(As on 31st March)										
Capital-at-charge (Rs. in crores)	3,532.81	3,715.46	4,056.06	4,154.34	4,333.30	4,647.65	5,656.53	6,807.94	8,004.45	9,158.5
Total Investment (Rs. in crores)	6,854.27	7,516.98	8,433.90	9,564.02	11,069.18	12,985.77	14,871.47*	16,846.30	18,519.30	20,413.4
Route Kilometres Electrified	1,501.88	1,477.02	1,729.23	1,800.22	1,722.90	1,816.38	1,975.31	2,197.90	2,460.15	2,470.1
Total ..	5,234.48	5,209.62	5,209.62	5,159.85	5,169.42	5,145.61	5,098.07	5,102.12	4,993.90	5,078.3
Running track Kilometres Electrified	2,578.01	2,595.20	2,952.73	2,823.72	2,957.41	3,064.91	3,332.08	3,580.26	3,875.86	3,917.2
Total ..	6,628.99	6,678.34	6,717.96	6,686.96	6,707.54	6,718.68	6,759.53	6,789.17	6,714.30	6,835.5
Number of Stations	601	599	597	536	545	552*	566	*597	590	5
Rolling Stock—										
Locomotives										
Steam	10	10	10	10	10	10	10	11	10	
Diesel	421	421	426	416	393	373	393	384	404	3
Electric	243	223	241	265	279	290	306	333	371	13
Coaching stock										
Passenger carriages	4,283	4,518	4,699	4,897	5,507*	5,562	5,656	4,964	5,182	54
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	11,064	11,224*	10,653	10,548	10,258	10,078	99
Staff—										
No. of employees (in 1000s)	106.844	*106.258	*104.865	105.177	104.680	102.472	99.329	95,741	94,492	93
Cost of staff (in crores of Rs.)	1,835.52	2,055.00	2,147.91	*2250.82	2,415.74	4,374.27	5,283.43*	*4,647.59	4,993.43	5,592
Average cost per employee (in Rs.)	1,71,7081	1,93,645	2,04,896	*2,14,787	2,30,624	4,30,712	5,00,882*	*4,85,434	5,28,450	5,967
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	47
EMU	..	..	..	..	..	..	..	8.50	8.68	8
MEMU	..	..	..	..	..	..	..	1.82	1.98	1
DEMU	..	..	..	..	..	..	..	0.61	0.56	0
Goods and proportion of mixed	11.71	11.58	11.93	12.23	12.25	12.69	11.97	11.53	11.84	10
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—										
Vehicle kilometres	1,208	1,225	1,280	1,253	1,345	1,404	1,483	1,590	1,690	17
EMU	..	..	..	..	..	..	..	79.30	81.43	8
MEMU	..	..	..	..	..	..	..	15.67	17.03	2
DEMU	..	..	..	..	..	..	..	4.52	3.70	0
Wagon kilometres	1,134	1,128	1,159	1,226	1,285	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	55,092	57,327	69,391	70,216	74,664	82,512	84
Passenger earnings (in crores of Rs.)	1,58.66	1,238.82	1,332.56	1,510.77	1,805.86	2,094.09	2,154.61	2,317.69	2,566.97	282
Average lead (in kilometres)	88.58	87.61	89.17	93.97	87.89	93.89	95.15	94.70	95.93	91
Average rate per passenger kilometre (in paise).	29.73	28.76	28.59	27.42	31.50	30.18	30.69	31.04	31.10	3
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	14,968	15,116	16,234	16,644	15,748	17,354	1
Total traffic	13,596	14,058	14,825	15,008	15,140	16,272	16,673	15,775	17,380	1
Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)	1,036.42	1,083.04	1,288.45	1,471.88	1,617.61	1,840.80	1,818.03	1,869.51	2,140.29	243
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	12
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	1,86,260	1,82,379	1,805.77	1,789.53	1,810.60	1,892.51	18
Stores purchased (in crores of Rs.)—										
Indigenous	974.15	1,260.84	1,638.44	1,790.10	1,901.84	3,003.37	2,872.53*	2,467.66	2,522.92	25
Total	1,015.49	1,283.20	1,699.65	1,800.81	2,308.19	3,050.84	2,890.88	2,469.21	2,535.74	26
Operating revenue and expenditure (in crores of Rs.)—										
Revenue—Gross receipts	2,419.39	2,579.34	2,913.06	3,330.61	3,772.04*	4,324.05	4,456.90	4,790.27	5,608.08	60
Working expenses including depreciation etc. and miscellaneous expenses.	2,878.45	3,123.99	3,334.34	3,522.94	3,968.17*	5,451.02	6,139.53	6,467.85	6,896.68	78
Net revenue receipts	(-) 400.25	(-) 501.80	(-) 551.27	(-) 244.85	(-) 191.13	(-) 1126.97	(-) 1,689.53*	-1,670.60	-1,297.62	-1
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	1
Dividend to General Revenues	248.13	231.17	249.47	264.30	294.87	311.54	357.86	321.32	369.12	3
Payments to States in lieu of tax on Passenger fares.										
Surplus (+) Deficit (-)	(-) 648.38	(-) 732.97	(-) 800.74	(-) 509.15	(-) 491.20	(-) 1,447.62	(-) 2,047.39	-1,991.92	(-) 1,666.74	-2

* Revised

No. of Staff
(Figures in Thousands)

As on March 2013
Open line : 92
Construction : 2
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 ..
													Locomotives
													Passenger carriages
													Electric Multiple Unit
													coaches.
													Coaching stock
													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 Output—Train kilometres
													excluding deport. mental (in millions)—
													Passenger and proportion of mixed
													EMU
													MEMU
													DEMU
													Goods and proportion of mixed
													Vehicle and wagon K.Ms. (excluding
													deport. 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 (—)

दक्षिण रेलवे/SOUTHERN RAILWAY

समानता विवरणिका 2012-2013 (बढ़ी लाइन)/DENSITY STATEMENT FOR THE YEAR 2012-2013—BROAD GAUGE

Serial No.	Name of the Section	Route 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 tonnes Kms. per route 107 per day	Total (14 + 15)	Gross tonne kilometres (including weight of engine and Departmental) for goods including proportion of mixed per route kilometre per day	Gross tonne kilometres (including weight of engine and Departmental) for Coaching including proportion of mixed per route kilometre per day	Gross tonne kilometres (including weight of engine and Departmental) for Coaching and Goods services combined per route kilometres per day	Average net load per Goods train									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
CHENNAI DIVISION																							
1	MAS-GDR	136	D	E	70.096	70.096	1317.493	1317.493	8.471	6.766	395.192	308.248	21148	3865	25013	32779	12998	46320	46320	79100	59318	2496	571
2	MAS-AJU	69	D	E	168.189	168.189	2594.111	2594.111	13.754	15.297	708.500	787.419	8878	43168	52047	28785	65357	97715	97715	126500	163072	645	2822
3	ALL-TJ	144	D	E	38.116	38.116	1488.116	1488.116	17.587	17.909	849.135	858.000	6817	47885	54701	30814	72385	43275	43275	74089	115680	388	2674
4	ALL-FRU	72	D	E	16.085	16.085	410.766	410.766	14.407	14.446	682.043	698.836	32770	21372	54142	52518	41315	12644	12644	65162	53959	2275	1479
PALAKKAD DIVISION																							
1	PTJ-PGT	49	D	E	28.983	28.983	1087.164	1087.164	8.502	8.526	367.222	365.039	8406	18042	26449	20204	29803	31685	31685	51889	61488	989	2116
2	PGT-SRR	44	D	E	28.620	28.620	1088.217	1088.217	7.985	9.128	325.247	326.270	7602	17617	25219	10191	29799	31626	31626	49817	61425	952	1930
3	SRR-CLT	86	D	NE	25.172	25.172	932.467	932.467	4.008	4.635	159.447	182.394	5048	7226	12274	10552	13557	27087	27087	37639	40644	1260	1559
4	CLT-CAN	89	D	NE	24.451	24.451	905.114	905.114	3.149	3.938	125.528	146.700	5779	3146	8926	10171	8272	26317	26317	36488	34589	1835	799
5	CAN-MAQ	131	D	NE	20.541	20.541	775.331	775.331	3.049	3.634	126.836	137.187	6735	1266	8001	11111	5964	22614	22614	33725	28578	2209	348
6	PGT-PGTN	66	S	NE	2.847	2.847	56.450	56.450	0.000	0.000	0.000	0.000	0	0	0	0	0	1830	1830	1830	1830	0	0
TRIVANDRUM DIVISION																							
1	SRR-CHTS	115	D	E	35.027	35.027	1364.007	1364.007	5.015	5.520	213.402	235.913	5114	10055	15169	12011	17560	39439	39439	51450	56998	1020	1822
2	ERS-QLN	156	S	E	22.316	22.316	863.968	863.968	1.495	1.762	59.494	71.349	1550	2335	3885	3622	4686	24961	24961	28562	28647	1037	1325
3	QLN-TVC	65	D	E	27.752	27.752	1084.283	1084.283	0.962	1.564	44.927	70.637	620	2269	2889	2121	4566	31327	31327	33448	35892	644	1451
4	NCJ-TEN	73	S	NE	9.441	9.441	333.644	333.644	0.876	1.469	39.038	64.533	857	1515	2372	2165	3619	9695	9695	11860	13314	979	1031
5	CAPE-TVC	87	S	NE	11.149	11.149	371.664	371.664	0.612	1.124	28.366	50.737	481	1319	1800	1439	2963	10797	10797	12236	13758	766	1173
6	ERS-ALLP	57	S	E	16.098	16.098	586.214	586.214	0.855	1.319	37.791	58.822	95	3129	3224	1342	5043	16964	16964	18307	22000	111	2372
7	ALLP-KYJ	44	S	E	13.384	13.384	468.628	468.628	0.716	1.206	32.528	53.964	105	2867	2973	1163	4600	13605	13605	14768	18206	147	2377
8	TCR-GUV	23	S	E	6.000	6.000	183.598	183.598	0.000	0.000	0.000	0.000	0	0	0	20	20	5286	5286	5316	5316	0	0

4. र. वार्षिक प्रति/ S. R. ANNUAL REPORT 2012-13

[illegible]

Note : Route Kilometre as per Annual statistical Statement No. 8 for B. G.

दक्षिण रेलवे/SOUTHERN RAILWAY

सघनता विवरणिका 2012-2013 (छोटी लाइन)/DENSITY STATEMENT FOR THE YEAR 2012-2013—METRE GAUGE

Serial No.	Name of the Section	Route Kms. of the Section	Whether the Section is Single/Double/ Triple	Whether the Section is Electrified	Average Daily No. of Coaching trains run on the Section		Average total Daily No. of Vehicles (In terms of 4-wheelers) Run on the Section		Average Daily No. of Goods trains run on the Section		Average Daily total No. of wagons (In terms of 4-wheelers) Run on the Section		Net tonne Kms. per route Kms. per day		Total (14 + 15)	Gross tonne kilometres (Including weight of engine and Departmental) For goods including proportion of mixed per route kilometre per day	Gross tonne kilometres (Including weight of engine and Departmental) For Coaching including proportion of mixed per route kilometre per day	Gross tonne kilometres (Including weight of engine and Departmental) for coaching and Goods services combined per route kilometre per day	Average net load per Goods train				
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
1	SALEM DIVISION MTP-UAM	46	S	NE	5.019	5.019	46.003	46.003	0.000	0.000	0.000	0.000	0	0	0	31	31	715	715	746	745	0	0
	TIRUCHCHIRAPPALLI DIVISION																						
2	TVR-TTP	26	S	NE	3.005	3.005	24.030	24.030	0.000	0.000	0.000	0.000	0	0	0	1	1	669	669	670	670	0	0
3	TTP-PKT	50	S	NE	2.003	2.003	16.015	16.015	0.000	0.000	0.000	0.000	0	0	0	0	0	445	445	445	445	0	0
122																							

Note : Route Kilometre as per Annual statistical Statement No. 8 for M. G.
Route Kilometre as per Density Statement for M. G.

594.97
122.00

The Difference is due to inclusion of sections under Gauge conversion Tirunelveli Town (TYT)- Tenkasi(TSI)72 Kms. Sencottah (SCT) Punalur (PUU) 49 Kms. Manamadurai(MNM)-Virudunagar(VPT) 66 Kms. Madurai (MDU) Bodinayakanur (BDNK) 90 Kms. Palani (PLNI) to Pollachi (POY) 62 Kms., Tiruturaiipoondi(TTP)-Agastyampalli(AGX)37 Kms., Pudukottai (PKT)- Karaikal (KKDI) 71 Kms., Pollachi(POY)-Pallakkad Town (PGTN) 58Kms. Kinattukkadavu (CNV)- Pollachi(POY) 23 Kms., Podanur (PTJ)- Kinattukkadavu (CNV) 17 Kms., Totalling 473 Kms. and rounding OFF.

दक्षिण रेलवे/SOUTHERN RAILWAY

वर्ष 2012-2013 के लिए प्रमुख मार्ग एवं अन्य सडकों का धनत्व विवरण/

DENSITY STATEMENT FOR ARTERIAL ROUTES AND OTHER ROUTES FOR THE YEAR—2012-2013

(Figures in Thousands)

Routes			NTKM				GTKM			
			Up	Down			Coaching			
					Goods		Up	Down	Combined	
Up	Down	Up	Down	Up	Down	Up			Down	
BROAD GAUGE										
Arterial	..	..	53,10,010	1,09,24,,664	1,22,77,393	1,81,32,328	2,27,42,118	2,27,42,118	35019511	4,08,74,446
Others	..	..	4,73,862	5,08,077	9,40,747	9,03,848	43,30,978	43,30,978	5271725	52,34,826
Total	..	..	57,83,872	1,14,32,741	1,32,18,140	1,90,36,176	2,70,73,096	2,70,73,096	4,02,91,236	4,61,09,272
METRE GAUGE										
Arterial	..	..	0	0	0	0	0	0	0	0
Others	..	..	0	0	229	226	13,241	13,241	13,470	13,467
Total	..	..	0	0	229	226	13,241	13,241	13,470	13,467