

General Manager's ANNUAL REPORT

2008—2009

SOUTHERN RAILWAY

Headquarters Office,
General Branch,
Chennai-600 003.

May 2010
VAISHAKA / 1932

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

I forward herewith my report on the working of the Southern Railway System for the year ended
31st March 2009.



(DEEPAK KRISHAN)
General Manager

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GLOSSARY OF TERMS

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

CAPITAL-AT-CHARGE

Includes capital outlay on worked lines.

ROUTE KILOMETRES

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

GROSS EARNINGS

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

WORKING EXPENSES

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

NET EARNINGS

Gross earnings minus working expenses.

OPERATING RATIO

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

PASSENGER KILOMETRES

The transportation of one passenger one kilometre.

TONNES ORIGINATING

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

FRIEGHT TONNE KILOMETRES

The transportation of one tonne of freight one kilometre.

TRAIN KILOMETRES

The transportation of one train one kilometre.

NUMBER OF STAFF

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

NUMBER OF STATIONS

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

SOUTHERN RAILWAY
HIGHLIGHTS OF OPERATIONS

Particulars	Units	2007-08	2008-09
Financial Position —			
Capital-at-Charge	Rs. in Crores	4333.30	4647.65
Capital Fund	Rs. in Crores	929.46	929.46
Gross Earnings	Rs. in Crores	3772.04	4324.05
Working expenses (excluding suspense)	Rs. in Crores	3963.17	4061.25
Net Earnings	Rs. in Crores	-196.33	-1126.97
Operating Ratio	Percentage	105.07	126.06
Percentage of Net Earnings to Capital-at-charge and investment from Capital Fund.	Percentage	-3.73	-20.2
Passenger Statistics —			
No. of Passengers Originating	In Millions	621	687
No. of Passengers Carried	In Millions	654	739
Passenger Kilometres	In Millions	57327	69391
Earnings from Passenger Carried	Rs. In Crore	1805.86	2094.09
Average Earning per Passenger Kilometre	In Paise	31.50	30.18
Average length of Passenger journey	Kilometre	87.89	93.89
Freight Statistics —			
Freight Tonnes Originating	In Millions	30.13	33.75
Freight Tonnes Carried	In Millions	67.19	68.71
Freight Tonne Kilometres	Kilometre	15116	16234
Earnings from Goods Carried	Rs. in Crore	1617.61	1840.80
Average Earning per Freight Tonne Kilometre	Paise	107.01	267.90
Average Lead of Tonne of Goods (Revenue)	Kilometre	225	236
Train Statistics —			
Train Kilometres incl. Departmental Kilometres (in thousands)	Kilometre	61627	63510
Gross Earnings per Train Kilometre	Rs.	612.08	680.85
Working Expenses per Train Kilometre	Rs.	643.09	638.47
Net Earnings per Train Kilometre	Rs.	-31.86	-17.74
Staff —			
No. of Staff as on 31st March	Number	104680	102472
Cost of Staff	Rs. In Crores	2415.74	4374.27
Station and Route Kilometrage —			
No. of Stations as on 31st March	Number	545	556
Route Kilometres as on 31st March	Kilometre	5169.42	5145.61

GENERAL REVIEW

General Economic Condition of the Zone

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

Tamil Nadu Industrial Development Corporation Limited

Sl. No.	Industrial Projects	Nos.	Enclosures
1.	No. of Projects completed and Commissioned during 2008-2009.	Nil	....
2.	No. of Projects under implementation	21	....
3.	Details of State Owned managed industries.	NIL	....

I. Projects completed during 2008-2009 Nil

II. Project under implementation

- Petroleum Refinery Project of Nagarjuna Oil Corporation Limited.
- Ship yard-cum-Minor Port Complex in Tiruvallur District.
- IT Corridor Project
- IT-ITES SEZ with Integrated International Convention Centre, at Taramani (TIDEL III).

- TIDEL Park Coimbatore Limited.
- IT-ITES SEZ at Taramani on 26.64 acres of lands behind TICEL-Bio-Park (TIDEL-II).
- TICEL Bio-Park
- Perambalur SEZ.
- Nanguneri SEZ in Tirunelveli District.
- Agri Exports for Cashew at Cuddalore.
- AEZ for Flowers at Nilgiris District.
- Sector Specific SEZ for IT-ITES at Sholinganallur Limited.
- Oil and Natural Gas Corporation of Tamil Nadu.
- Cold Storage for Eggs at Namakkal District.
- Integrated Grape Processing Unit, Dindigul District.
- SEZ for IT & ITES with an Integrated Feeder Township Project in Coimbatore District.
- Krishnagiri SEZ.
- Integrated Cold Chain Facility at Tirumullaivoyal, Tiruvallur District.
- Ennore SEZ Project.
- ETA Township.
- Medical Village, Tiruvallur District.

Statement Showing the Number of existing Mining Leases as on 31st March 2009

Major Minerals : Limestone

Sl. No.	District	Number of Existing Leases					
		Patta Land	Total Extent (in Hect.)	Govt. Land	Total Extent (in Hect.)	Patta & Poramboke	Total Extent (in Hect.)
1	2	3	4	5	6	7	8
1	Ariyalur & Perambalur	54	1688.485	30	469.840	..	..
2	Coimbatore	2	17.225	1	135.555	..	..
3	Dindigul	33	73.835	..	..	8	839.905
4	Karur	44	169.520	..	..	..	..
5	Krishnagiri	2	2.450	..	..	..	..
6	Madurai	12	75.680	1	6.565	..	..
7	Namakkal	36	81.050	1	0.580	..	..
8	Salem	44	151.680	5	97.210	5	185.435
9	Sivagangai	..	..	1	6.030	..	..
10	Theni	1	0.960	2	5.810	..	..
11	Thoothukudi	14	382.395	..	..	..	..
12	Tirunelveli	50	504.599	18	368.801	..	..
13	Trichy	16	111.780	5	77.195	..	..
14	Virudhunagar	30	1417.580	2	74.070	..	..
	Total	338	4677.239	66	1241.656	13	1025.34

Soapstone

1	Coimbatore	2	5.455	0	0	..	..
2	Salem	..	..	2	9.785	..	..
3	Trichy	1	1.230	2	8.675	..	..
	Total	3	6.685	4	18.460	..	..

Quartz and Feldspar

Sl. No.	District	Number of Existing Leases.					
		Patta Land	Total Extent (in Hect.)	Govt. Land	Total Extent (in Hect.)	Patta & Poramboke	Total Extent (in Hect.)
1	2	3	4	5	6	7	8
1	Coimbatore	6	47.130	..	..	..	..
2	Dharmapuri	3	5.074	1	17.350	..	..
3	Dindigul	27	32.890	2	2.865	1	0.605
4	Erode	56	77.245	2	4.595	..	..
5	Karur	80	109.175	1	1.310	..	..
6	Krishnagiri	..	..	..	..	1	7.215
7	Madurai	4	4.355	3	22.420	..	..
8	Namakkal	24	38.327	..	..	..	..
9	Pudukkottai	1	1.080	..	..	..	..
10	Salem	21	36.505	10	95.205	..	..
11	Sivagangai	1	1.105	..	..	..	..
12	Thoothukudi	2	6.605	..	..	..	..
13	Trichy	7	12.465	..	..	..	..
14	Vellore	1	1.395	..	..	..	..
Total		233	373.351	19	143.745	2	7.820

Magnesite & Dunite

1	Salem	3	6.580	9	1440.918	..	..
Total		3	6.580	9	1440.918	..	..

Graphite

1	Madurai	2	5.600	..	..	..	..
2	Sivagangai	3	30.485	2	242.465	..	..
Total		5	36.085	2	242.465	..	..

Magnesite

1	Namakkal	2	3.270	1	1.620	..	..
2	Karur	2	4.415	..	..	..	..
Total		4	7.685	1	1.620	..	..

Bauxite

1	Namakkal	1	1.920	..	..	..	..
2	Salem	..	..	1	190.840	..	..
Total		1	1.920	1	190.840	..	..

Silica Sand

1	Cuddalore	1	1.065	..	..	..	..
2	Kancheepuram	4	21.520	7	12.955	..	..
3	Nagappattinam	9	16.270	..	..	..	..
4	Tiruvallur	2	7.545	..	..	..	..
5	Villupuram	8	15.310	2	6.230	..	..
Total		24	61.710	9	19.185	..	..

Garnet, Ilmenite, Etc.,

1	Kanyakumari	6	15.135	1	7.063	2	144.225
2	Madurai	2	6.620	..	..	..	..
3	Thoothukudi	2	9.060	1	16.932	..	..
4	Tirunelveli	45	142.000	4	52.460	..	..
5	Trichy	..	..	6	167.620	..	..
Total		55	172.815	12	244.075	2	144.225

Vermiculite

1	Vellore	..	..	1	23.705	..	..
Total		..	..	1	23.705	..	..

Sl. No.	District	Number of Existing Leases					
		Patta Land	Total Extent (in Hect.)	Govt Land	Total Extent (in Hect.)	Patta & Poramboke	Total Extent (in Hect.)
1	2	3	4	5	6	7	8

Gypsum

1	Ariyalur & Perambalur	5	18.690	..	..	..	..
2	Coimbatore	4	17.780	..	..	..	..
3	Trichy	4	5.955	..	..	..	..
	Total	13	42.425	..	..	..	..

Limeshell

1	Cuddalore	1	4.615	..	..	..	..
2	Nagappattinam	..	..	1	17.840	..	..
	Total	1	4.615	1	17.840	..	..

Fire Clay

1	Ariyalur & Perambalur	27	86.995	..	..	..	..
2	Cuddalore	17	36.690	1	4.047	..	..
3	Thiruvannamalai	1	4.875	..	..	..	..
4	Trichy	1	1.200	1	1.230	..	..
	Total	46	129.760	2	5.277	..	..

Oil & Natural Gas

1	Cuddalore	2	4.84	..	..	..	..
2	Nagappattinam	7	150.10	..	..	..	..
3	Ramanathapuram	..	..	2	77	..	..
4	Tiruvallur	12	137.96	..	..	..	..
	Total	21	292.90	2	77	..	..

Lignite

1	Cuddalore	1	259	..	..	..	..
	Total	1	259	..	..	..	..

Statement showing the number of Existing Quarry Leases as on 31st March 2009

MINOR MINERALS

		Number of Existing Leases			
Sl. No.	District	Patta Land	Total Extent (in Hect)	Govt. Land	Total Extent (in Hect)
Roughstone					
1.	Ariyalur & Perambalur	15	37.515	148	173.640
2.	Coimbatore	436	721.878	32	55.770
3.	Cuddalore	1	1.900	0	0.000
4.	Dharmapuri	28	53.284	3	8.602
5.	Dindigul	174	256.840	100	114.330
6.	Erode	308	591.230	46	121.315
7.	Kancheepuram	51	121.220	37	100.350
8.	Kanyakumari	36	45.274	10	28.480
9.	Karur	270	781.950	28	49.605
10.	Krishnagiri	109	194.800	58	253.975
11.	Madurai	101	153.100	88	187.985
12.	Namakkal	103	161.943	28	45.990
13.	Pudukkottai	125	128.285	96	62.240
14.	Salem	53	85.695	48	102.480
15.	Sivagangai	30	28.890	17	33.260
16.	Theni	56	67.425	58	100.925
17.	Thiruvannamalai	60	76.262	117	134.575
18.	Thoothukudi	100	325.605	0	0.000
19.	Tirunelveli	226	565.852	22	63.515
20.	Tiruvallur	0	0.000	8	37.505
21.	Trichy	53	111.180	27	41.120
22.	Vellore	38	39.065	175	144.745
23.	Villupuram	119	233.525	61	165.145
24.	Virudhunagar	167	221.160	19	33.050
Total		2659	5003.877	1226	2058.602

Statement showing the number of Existing Quarry Leases as on 31st March 2009

MINOR MINERALS—contd.

		Number of Existing Leases			
Sl. No.	District	Patta Land	Total Extent (in Hect)	Govt. Land	Total Extent (in Hect)
Kankar					
1.	Ariyalur & Perambalur	2	2.115	0	0.000
2.	Dindigul	1	1.095	0	0.000
3.	Erode	3	6.720	0	0.000
4.	Virudhunagar	9	13.050	0	0.000
Total		15	22.98	0	0.00.0
Pebbles					
1.	Cuddalore	5	11.165	0	0.000
2.	Pudukottai	1	0.400	0	0.000
Total		6	11.565	0	0.000
Steatite					
1.	Salem	1	1.050	0	0.000
Total		1	1.050	0	0.000
Colour Granite					
1.	Coimbatore	8	37.718	2	17.125
2.	Dharmapuri	1	3.180	0	0.000
3.	Dindigul	18	39.010	0	0.000
4.	Erode	7	10.725	2	17.890
5.	Karur	26	47.020	9	23.155
6.	Kanyakumari	4	6.440	0	0.000
7.	Krishnagiri	42	84.795	38	306.780
8.	Madurai	147	368.350	24	85.270
9.	Namakkal	9	23.895	0	0.000

MINOR MINERALS—concl'd.

Number of Existing Leases					
Sl. No.	District	Patta Land	Total Extent (in Hect)	Govt. Land	Total Extent (in Hect)
Colour Granite					
10	Pudukkottai	87	190.200	4	64.200
11	Salem	32	75.595	6	48.875
12	Sivagangai	12	28.455	2	4.175
13	Theni	1	2.010	0	0
14	Thoothukudi	6	20.180	0	0
15	Tirunelveli	10	24.8050	7	144.820
16	Trichy	3	3.770	1	15.000
17	Vellore	2	14.267	1	72.440
18	Villupuram	4	5.400	9	26.305
19	Virudhunagar	22	42.075	2	9.080
Total		441	1027.890	107	835.115
Black Granite					
1.	Ariyalur & Perambalur	3	4.965	0	0
2.	Cuddalore	1	1.255	0	0
3.	Dharmapuri	8	22.197	6	102.355
4.	Erode	14	28.880	4	7.905
5.	Kancheepuram	2	5.230	3	8.290
6.	Krishnagiri	30	56.715	13	33.790
7.	Namakkal	0	0	1	2.145
8.	Salem	13	22.918	10	39.110
9.	Thiruvannamalai	11	20.505	14	144.570
10.	Tiruvallur	0	0	2	58.540
11.	Trichy	1	1.295	0	0
12.	Vellore	2	2.240	12	402.710
13.	Villupuram	31	70.490	10	97.250
Total		116	236.69	75	896.965
Gravel/Savudu/Earth					
1.	Ariyalur & Perambalur	14	24.070	15	182.750
2.	Cuddalore	35	80.090	6	41.305
3.	Dharmapuri	1	0.520	0	0.000
4.	Dindigul	0	0.000	39	110.500
5.	Erode	17	46.765	1	12.140
6.	Kanyakumari	6	7.082	0	0.000
7.	Karur	13	37.790	0	0.000
8.	Madurai	16	32.850	29	100.600
9.	Nagappattinam	29	43.830	2	0.000
10.	Namakkal	8	19.205	3	1.215
11.	Pudukkottai	14	36.290	0	0.000
12.	Ramanathapuram	60	94.840	0	0.000
13.	Salem	8	18.395	7	521.995
14.	Sivagangai	33	114.485	4	55.570
15.	Thanjavur	20	74.362	0	0.000
16.	Theni	5	4.905	0	0.000
17.	Thiruvannamalai	0	0.000	14	16.180
18.	Thoothukudi	8	43.685	25	678.785
19.	Tirunelveli	0	0.000	38	326.515
20.	Tiruvallur	1	1.700	0	0.000
21.	Tiruvarur	7	7.920	0	0.000
22.	Trichy	7	19.010	0	0.000
23.	Vellore	15	13.400	0	0.000
24.	Villupuram	12	19.045	28	152.485
25.	Virudhunagar	15	16.640	7	75.860
Total		344	756.879	218	2275.900

Quantity of Mineral Permitted and Royalty realised During the year 2008-09

Sl. No.	Mineral	Quantity permitted in Tonnes	Royalty Realised in Rs.
1	Limestone	19535791	911147129
2	Magnesite	251014	16835133
3	Dunite	29800	1614240
4	Silica Sand	75528	1573096
5	Limeshell	520	25940
6	Fire Clay/Ball Clay	228740	4128728
7	Vermiculite	1566	110000
8	Gypsum	15274	649156
9	Marl	1452687	7793477
10	Graphite	51658	3041972
11	Garnet (Beach Sand)	1016846	70324244
12	Bauxite	238709	21556488
13	Soapstone	2468	151181
14	Crude Oil	259182	1044283571
15	Lignite	22661659	1461245682
16	Quartz	101777	2209536
17	Feldspar	16638	1264205
18	Nodules	50	2250
Total			3547956028

Sl. No.	Minerals	Quantity permitted (in Cubic Mts.)	Royalty Realised (in Rs.)
1.	Natural Gas	1293408443	304911002
Grand Total			3852867030
			or
			385.29 Crores

Quantity of Mineral permitted and Seigniorage Fee realised for the year 2008-09

Sl. No.	Minerals	Quantity permitted (in Cu. Mts./ Lorry loads)	Seigniorage Fee Realised (in Rs.)
1.	Black Granite	58167	16,78,51,015
2.	Colour Granite	112558	18,53,29,349
3.	Rough Stone	2979159	53,04,79,431
4.	Gravel/Earth/Clay/ Red soil/Savudu	3702348	34,74,81,950
5.	Pebbles	1709	10,02,150
6.	Kankar	2077	8,65,210
7.	Quartzite	562	3,37,200
8.	Waste Granite	8885	31,29,426
9.	Sand	50	8,500
Total		6865515	1,23,64,84,231
			or
			123.65 Crores

Sl. No. 1 & 2 in Cubic meters – 170725 Cubic mtrs.
Sl. No. 3 to 10 in Lorry Loads – 6694790 L.L.

Power project Commissioned during 2008-09

Sl. No.	Name of the project	Installed capacity (MW)
1.	Neriamangalam ext.	25.00
2.	Kuttiyadi tailrace 1 & 2	2.50
3.	Ullunkal (Private sector – IPP)	7.00
4.	Co-Generation Plant MPS Steel (Pvt. IPP)	10.00
5.	Ramakalmedu (12 X 0.75 MW) (Pvt. IPP)	13.50
6.	Agali (16 X 0.6 MW) (Pvt. IPP)	13.80
7.	Renovation and Modernisation of Sabarigiri.	5.00
Total		76.80

Projects under constructions

1.	Kuttiyadi Tailrace-unit 3	1.25
2.	Pallivasal Extension	60.00
3.	Thottiar	40.00
4.	Poozhithodu	4.80
5.	Ranni perinad (Maniyar Tailrace)	4.00
6.	Kuttiyadi Addl. extn. scheme	100.00
Total		210.05

Project Proposals

1.	Chathankottunada II	4.00
2.	Vilangad	7.50
3.	Peechi	1.25
4.	Mankulam	40.00
5.	Anakkayam	7.50
6.	Kakkayam	4.00
7.	Karappuzha	0.50
8.	Barapole	15.00
9.	Perumthenaruvi	6.00
10.	Poringalkuthu LB	24.00
11.	Pazhassissagar	20.00
12.	Sengulam tail race	3.60
13.	Chimony	2.50
14.	Chembukadav Stage III	6.00
15.	Peruvannamoozhi	7.00
16.	Upper Kallar	2.00
17.	Peechad	3.00
18.	Thumboomoozhi	8.00
19.	West Kallar	5.00
20.	Koodam	4.50
21.	Chinnar	24.00
22.	Chenglam Extention	48.00
23.	Kanthanpara	45.00
24.	Vythiri	60.00
25.	Landrum	3.50
26.	Olikkal	4.00
27.	Poovarathode	2.00
28.	Marmala	4.00
29.	Pampar	4.00
30.	Vakkallar	24.00
31.	Chathankottunada stage I	4.50
32.	Pasukkadavu	2.00
33.	Athirappally	163.00
34.	Cheemeani (Thermal station)	2400.00

Area and Production of Crops during 2007-08 and 2008-09

Name of Crop	Area (ha)	Production (Tonnes)	Area (ha)	Production (Tonnes)
Paddy	228938	528488	234265	588967
Pulses (inclusive Tur)	4355	3294	NA	NA
Groundnuts	2911	2154	NA	NA
* Oilseeds (Coconut)	818812	5641	NA	NA
Green Chillies	1398	1340	NA	NA
Sugarcane	2991	15915	NA	NA
Tobacco	43	69	NA	NA
* Cotton	1295	1680	NA	NA
Cholam (Maize)	NA	NA	NA	NA
Cumbu	NA	NA	NA	NA
Ragi	266	216	NA	NA

* Production of Coconut is in million nuts and cotton in No. of bales of 170 kg. respectively.

Dept. of Mining and Geology**Production of Major Minerals during 2008-09**

Minerals	Total
Chinna Clay	649806
Rutile	11776.25
Zircon	12975.39
Sillimanite	6586.18
Lime Shell	75964.74
Silica Sand	113690.74
Lime Stone	496572.16
Bauxite/Laterite	85224.54
Quartz	1284.2
Ilmanite	190220.72
Graphite	200
Total	1644300.92

Production of Major Minerals during 2008-09 (Tonnes)

Granite Building Stone	2365846.72
Granite Dimension Stone	734.97
Laterite	433492.75
Brick Clay	1878440.2
Lime Shell	2491.71
Ordinary Sand	2114250.7
River Sand	4821182.3
Total	11616439.35

Production of Major Minerals during 2008–09													
Minerals	April	May	June	July	August	September	October	November	December	January	February	March	Total
China Clay	56514.04	92534.83	66703.70	86464.04	32090.30	62187.35	61296.83	47995.65	49138.61	24861.96	60640.74	9380.95	649806.00
Rutile	196.36	1525.95	417.91	449.91	696.18	1212.13	814.55	..	334.35	2690.09	2442.92	995.90	11776.25
Zircon	1779.50	208.40	775.35	808.97	1163.94	1059.81	282.35	961.61	1238.65	583.78	3886.14	226.89	12975.39
Sillimanite	31.46	388.67	427.00	353.32	750.45	753.49	..	706.65	104.41	1420.74	1515.73	134.26	6586.18
Lime Shell	6195.22	8478.00	8162.49	5500.58	3900.00	3019.18	6100.00	6900.00	9035.67	4700.00	4773.60	9200.00	75964.74
Silica Sand	8306.89	16212.95	12476.60	13744.75	8706.85	3331.00	5405.00	5811.90	12482.10	9796.35	7677.25	9739.10	113690.74
Lime Stone	50000.00	50000.00	0.00	50000.00	50000.00	50000.00	111321.2	303.00	50000.00	..	84948.00	..	496572.16
Bauxite/ Laterite	9305.88	5764.70	2450.00	7547.35	4255.88	5646.06	5670.82	8041.18	9573.97	11579.41	11234.35	4154.94	85224.54
Quartz	200.00	..	..	200.00	..	300.00	50.00	..	..	434.20	100.00	..	1284.20
Ilmanite	..	..	38329.61	22951.94	11475.96	12691.47	12691.00	4151.41	35260.65	12691.47	26979.84	12996.90	190220.72
Graphite	..	..	..	..	..	..	200.00	..	..	..	..	..	200.00
Total	132529.4	175113.5	129742.7	188020.9	113039.6	140200.5	203832.2	74871.4	167168.4	68758.00	204198.6	46828.94	1644300.9

Production of Minor Minerals during 2008-09 (Tonnes)													
Minerals	April	May	June	July	August	September	October	November	December	January	February	March	Total
Granite Building Stone.	376943.75	348511.50	412800.44	429039.06	224627.94	119273.38	109865.00	89765.69	94814.25	23924.96	59142.44	77138.31	2365846.72
Granite Dimension stone	93.16	71.66	101.59	91.89	37.91	92.56	129.74	33.56	17.10	37.11	-	28.69	734.97
Laterite	66324.25	59689.62	59965.62	934525.00	63499.37	18006.06	11328.13	8750.00	16540.94	16093.13	10833.13	9037.50	433492.75
Brick Clay	1238210.00	76836.00	20432.40	42920.00	200.00	8615.00	95600.00	58800.00	60575.00	62029.00	111418.60	102804.20	1878440.20
Lime Shell	688.89	45.00	-	-	300.00	-	-	200.00	-	-	1257.82	-	2491.71
Ordinary Sand	267919.00	248379.00	105604.20	81405.00	67812.50	60007.50	111605.50	114065.00	190802.00	241546.00	294654.00	330451.00	2114250.70
River Sand	533794.50	504278.70	236474.10	92936.50	238904.50	385370.60	572600.50	42971420	327425.50	626833.20	397562.50	475287.50	4821182.30
Total	2483973.55	1237811.48	835378.35	739817.45	595382.22	591365.10	901128.87	701328.45	690174.79	970463.40	874868.49	994747.20	11616439.35

Minerals	Uses
Bauxite	Used as ore of Aluminium, Aluminium used for cars, boats, Aircraft and aircraft engines, road signs and high voltage power lines.
China Clay	Used in Refractories, Pharmaceuticals, Paper and paint industries, Ceramics and face powder.
Lime Shell	Used for cement, lime powder used for manufacture of white cement, paper and caustic soda factories.
Lime Stone	Used for glass making process, making steel by using the limestone in blast furnace as building material. Lime stone mixed with clay forms cement.
Zircon	Metals and Gemstones : In nucleus industry for cladding fuel elements, used are abrasive, alloy agent in steel and for making surgical appliances, used as getter in vacuum tubes, in flash bulb for photograph, in explosive primers and in lamp filaments. Zircon oxide is used for laboratory crucibles, for lining of metallurgical furnaces and by the glass and ceramic industries as a refractory material.

Minerals	Uses
Rutile	Source of Titanium (TiO ₂) and is used coating or welding roads, in aerospace industry for replacement of hip joints, for pipes in the nucleus, oil and chemical industries where corrosion is likely to occur. TiO ₂ used in automobile, sports and medicine main use is in paint as a paint pigment other uses includes coating for tiles, to treat the air to preserve fruits and vegetables and to remove pollution.
Ilmenite	Source of titanium, used for paint pigments, welding rod, coatings, ceramics papers and in other uses of chemical industry.
Sillimanite	Used in industries like Cement, ceramic glass making, metals smelting, refinery and treatment, for distillation, coal carbonization, Chemical manufacture and iron foundaries.

MINOR MINERALS

Sl. No.	Name of Mineral	Places where the mineral occur
1	Granite Building Stone ..	Thiruvananthapuram, Kollam, Pathanamthitta, Kottayam, Idukki, Ernakulam, Thrissur, Palakkad, Kozhikkode, Malappuram, Wayanad, Kannur, Kasaragod.
2	Granite Dimension Stone ..	Thiruvananthapuram, Palakkad.
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	Kollam, Pathanamthitta, Alappuzha, Ernakulam, Thrissur, Palakkad, Malappuram, Wayanad, Kannur,
6	Ordinary Sand	Thiruvananthapuram, Kollam, Pathanamthitta, Alappuzha, Kottayam, Idukki, Ernakulam, Palakkad, Kozhikkode, Wayanad, Kannur, Kasaragod, Thrissur.
7	River Sand	Entire state except Alappuzha District.

MAJOR MINERALS

Sl. No.	Name of Mineral	Places where the mineral occur
1	China Clay	Thiruvananthapuram, Kollam, Kannur, Kasaragod.
2	Ilmanite	Kollam
3	Rutile	Kollam
4	Zircon	Kollam
5	Sillimanite	Kollam
6	Silica Sand	Alappuzha
7	Lime Shell	Alappuzha, Kottayam
8	Lime Stone	Palakkad
9	Bauxite/Laterite	Thiruvananthapuram, Kannur, Kasaragod, Kollam.
10	Quartz	Wayanad
11	Graphite	Thiruvananthapuram, Kottayam.

2. Railway Kilometrage

The open line Kilometrage as on 31st March 2009 :—

The open line kilometrage as on 31.3.1951				
Gauge	Route Kilometrage			Track
	Single line	Double/ Treble/ Quadruple lines	Total	Kilometrage including sidings kilometrage
1. Southern Railway :				
Broad Gauge	2,471.57	1,399.51	3,871.08	6,811.89
Metre Gauge	1,269.33	0.00	1,269.33	1,393.16
Narrow Gauge	0.00	0.00	0.00	0.00
2. Cochin Harbour Terminus Railway :				
Broad Gauge	5.20	0.00	5.20	23.80
Metre Gauge	0.00	0.00	0.00	0.00
Narrow Gauge	0.00	0.00	0.00	0.00
Total	3,746.10	1,399.51	5,145.61	8,228.85

3. General Review of working for the year 2007-2008 and 2008-2009 are as follows :—

	2007-2008	2008-09
Gross Earnings (in crores of Rupees).	3,772.04	4,324.05
Working Expenses (excl. Suspense) (in crores of Rupees).	2,896.22	4,061.25
Number of passengers carried.. (in millions).	654.00	737.55
Tonnes originating (Revenue) .. (in millions)	30.41	33.75
Tonnes Carried system (in millions).. (Revenue)	67.12	68.71
Freight tonne kms. (Revenue) .. (in millions).	15116.00	16234.00
Goods Train kms. (in millions).. Train Engine kms. (Goods and prop.)	12.25	12.89
(in millions).	22.31	23.56

4. PLANNING

1.0 Efficiency & Planning Cell

1.1 Work studies/Crash studies

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

1.2 During the year, 59 Work Studies were completed. These reports identified 1,931 (Group 'C' 1,203 & Group 'D' 728) posts as surplus with a projected savings of Rs. 34.95 Crores per annum (approx.).

1.3 During the year, 1,235 posts (comprising both Group 'C' and Group 'D') were surrendered/redeployed against the target of 1,200 posts fixed by Railway Board. The annual financial savings on account of the above surrender/redeployment has resulted in a savings of Rs.23.67 Crores per annum (approx.).

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

2.0 Southern Railway Monthly Gazette

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

3.0 Annual "Salient Features – 2009" Publication

An annual publication titled "Salient Features – 2009" has been brought out by this Branch. Divisional workload and operating-cum-efficiency indices, data collection for the award of Pandit Govind Ballabh Pant Shield for the Best Zonal Railway and the assessment of inter-divisional and Departmental shields/awards during Railway Week Celebration at Zonal level are also dealt by Planning Branch.

5. STATISTICAL ORGANISATION

The Statistical Organisation furnishes vital information to enable the management in decision-making. These include Monthly Evaluation Report, Advance Gross Earnings and Traffic handled, for every 10 day period, Operating statistics such as Engine utilization, GTKMs, NTKMs achieved etc. These statements help in the preparation of Budget estimates, Revision of estimates, estimation of trends of traffic, utilization of assets etc.

In addition to these, various monthly, quarterly and annual statements are compiled and sent to Board and managers concerned on the target dates to enable them to assess the performance of their respective branches. This organization maintains close liaison with all branches, stations, sheds and accounts office for prompt collection of various input data for compilation of the relevant reports.

The handy booklet – Pocket book of financial results and important statistical highlights exhibiting 5 years data at a stretch on important statistical parameters with graphical representation of Southern Railway is published to help the administration for review and decision-making. It helps in manpower planning, asset utilization and to devise marketing strategies for better performance.

Traffic costing cell —

Traffic Costing Cell of this Railway continued to do—

- Cost Analysis of Coaching Services
- Cost Analysis of Freight Services
- Study on the Economics of EMU Services
- Analysis of Incremental Costs for Goods services and
- Analysis of the Shunting Engine Hourly Costs.

The reports have been sent to Railway Board for further action and to enable preparation of end results booklets, containing the unit costs of coaching and goods services.

Apart from preparation of annual costing reports, Traffic Costing Cell under took special cost studies during 2008-09 on—

- Cost and profitability of running special trains.
- Cost of operating uneconomic branch lines.
- Cost study of Diesel Shed/ERS.
- Cost of detention of Goods trains, for giving path to coaching trains.

Data Processing Centre —

Headquarters IT centre Southern Railway is located in the Moore Market Complex, 8th floor. This centre develops and maintains applications Software in :

1. Financial Management System
2. Materials Management System
3. Freight and Passenger Statistics Information System.
4. General and Workshop Payroll System
5. Provident Fund and Pension Systems
6. Operating Statistics, WGR and Labour Summary Systems.

All these applications were originally maintained in MF COBOL software under UNIX platform and are being processed in Batch Mode. Large number of managerial information and statutory documents are generated duly processing these applications.

As per Railway Board directives, System Development Teams were constituted to develop applications in RDBMS (ORACLE) in Payroll and Earning and Expenditure Systems in 1998. PRIME and AFRES are two systems developed by Southern Railway and are being implemented in all units like Headquarters, Divisions and Extra Divisions. A core group is organized to implement these RDBMS applications in various Divisions and Extra-divisions.

Prime—

“ Payroll Related Independent Module ” comprises Employee payment module and related Personnel Branch modules.

At present, Processing of General and Workshop Payroll hitherto carried out in COBOL has been switched over to Oracle in PRIME and achieved a 100% implementation of this system, which is an all Indian Railway Record. By implementing RDBMS system the Payroll errors are reduced from 10% to less than .1%. relative modules in PRIME like Leave, Cadre, Quarters, Settlement, Loan and Advances are being implemented in divisions and extra divisions.

VI Pay commissions implementation has been successfully achieved within the prescribed period and First and Second instalment of Arrears were duly paid within the targeted period.

Settlement Module has been implemented in Headquarters, Perambur, Madurai and MAS division.

AFRES—

AFRES module, which is for Accounts Dept., is under implementation. AFRES modules like PENSION, INTERNAL CHECK, BOOKS, RIB, CASH & PAY, SUSPENSE and BUDGET are implemented in Headquarters and Chennai Division Accounting Units where AFRES is installed. The above AFRES module likes PF, Pension, Internal check and Books have been successfully implemented in TPJ, MDU, PGT and TVC also. In WST/PER the above modules are being implemented in a phased manner.

Freight Accounting System

The Freight Accounting System has been migrated from COBOL to ORACLE enabling easier processing and data retrieval.

GMR—2A

MMIS

MMIS module being developed under ORACLE 10g back end to switch over from the existing COBOL platform. Forms and reports have been developed under web based system to have online connectivity with all stores depots and attached accounting units, is trail.

SWR System Bifurcation

At the time of creation of South Western Railway it was a difficult task for EDP Centre to bifurcate the data processing activities. However, EDP centre managed it efficiently and installed separate systems for SWR in Material Management, Freight and Passenger Applications. EDP Centre now processes for Southern and South Western Railways Simultaneously for Material Management and Passenger Accounting system.

Miscellaneous

Touch screen system were provided at Head Quarters and Chennai Division. This enables employees to know their PF bill details and the status of their loans and advances. The touch screen also facilitates the suppliers/contractors to know the status of their bills. Provision is also made to view the suppliers/contractors bills through internet. Settlement calculation has also been programmed in the touch screen for the benefit of pre 2006 pensioners.

Computer Learning Centre

The computer learning centre is revived from August 2008 and training in various subjects like MS Office, Crystal report, Oracle basic, E-mail and security etc., were imparted to staff of various departments with faculty resources from IT Centre as well as from other departments and retired officers.

One-to-One COBOL to ORACLE Conversion.

IT Centre is undergoing one-to-one conversion of COBOL to ORACLE project for Material Management System FMIS, Passenger Accounting system and Workshop Accounting system to completely phase out existing COBOL system.

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.

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.

Details about the number of complaints received and dealt with in respect of major categories during 2008-09 as compared to those received during 2007-08 are given below:—

Sl. No.	Classification	Number of complaints					
		2006-07			2007-08		
		Opening Balance	Received	Disposed	Balance	Received	Disposed
1.	Behaviour of staff	11	305	308	8	246	252
2.	Lack of Amenities/unsatisfactory maintenance of amenities at stations/trains.	1	254	252	3	283	284
3.	Late running of trains	0	165	165	0	144	144
4.	Coaching—Reservations and other than reservations.	8	543	542	9	601	607
5.	Catering arrangements	0	41	41	0	85	85
6.	Miscellaneous/suggestions.	9	398	405	2	504	499

Number of complaints received, disposed of and pending during 2008-09 as compared to the previous year is as follows:—

Year	Opening Balance	Receipt	Total	Disposed	Pending
2007-2008	29	1706	1735	1713	22
2008-2009	22	1863	1885	1871	14

During 2008-2009, a total number of 1731 complaints other than suggestions were registered as compared to 1,658 complaints in 2007-2008. The increase in number of complaints is due to the increasing customer awareness and the advent of information Technology, which has made the task of complaining easier.

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

7. Public Relations and Publicity (April 2008 – March 2009)

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

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

Press Coverage:

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

abreast of day-to-day railway working. During the period, 1200 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 54 display advertisements were released in the national and regional newspapers and magazines. Besides focussing on developmental activities on Railways, the advertisements also served to educate the travelling public on safety issues such as level crossing at unmanned gates and carrying of inflammable articles in trains, etc., Advertisements notifying introduction of new trains, cancellation/changes in existing operations were also published in leading dailies.

Publicity Literature

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

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

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

Exhibitions

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

1. Indian International Trade Fair from 14-11-2008 to 27-11-2008
2. All India Tourist and Trade Fair at Chennai (December 2008 to March 2009)
3. All India Industrial, Agricultural, Educational and Cultural Exhibition at Trichur from April 2008 to May 2008.
4. Chamber of Commerce Trade Fair at Madurai (Dec.2008-Jan.2009)

Details of Important events on Southern Railway during 2008–2009

1. Laying of foundation stone for new railway station at Arni by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 11th April 2008.
2. Commissioning of Train Protection Warning System in the Chennai Beach – Gummidipoondi sector by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 2nd May 2008.
3. Introduction of Battery operated Car for physically challenged passengers at Chennai Egmore railway station by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 20th May 2008.
4. Inauguration of High Mast Lamp at Wallajah Road Railway station by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 23rd May 2008.
5. Introduction of stoppage for T.Nos.2607/2608 Chennai Central – Bangalore Lalbagh Expresses at Sholinghur Railway station by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 27th May 2008.
6. Introduction of stoppage for T. Nos.3351/3352 Alleppey – Dhanbad – Alleppey Expresses at Mukundarayapuram by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 27th May 2008.
7. Centenary celebrations of the Chennai Egmore Railway station by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 11th June 2008.
8. Release of the new Southern Zone Railway Timetable by Dr. R. Velu, Hon'ble Union Minister of State for Railways 30th June 2008.
9. Inauguration of the newly converted broad gauge section between Karaikkudi and Manamadurai at Sivaganga by Shri P. Chidambaram, Hon'ble Union Minister of Finance and Dr. R. Velu, Hon'ble Union Minister of State for Railways 2nd July 2008.
10. Press tour on the Chennai Beach – Velachery MRTS section 10th July 2008.
11. Inauguration of halt station at Ichchiputhur by Dr. R. Velu, Hon'ble Union Minister of State for Railways 2nd August 2008.
12. Flagging off of Chennai Egmore – Salem Super Fast Express at Chennai Egmore Railway station by Dr. R. Velu, Hon'ble Union Minister of State for Railways and Shri K. Venkatapathy, Hon'ble Union Minister of State for Law and Justice on 8th August 2008.
13. Inauguration of extension of Coimbatore – Kumbakonam Jan Shatabdi Express to Mayiladuthurai by Shri Mani Shankar Aiyar, Hon'ble Union Minister for Panchayati Raj & Development of North Eastern Region and Dr. R. Velu, Hon'ble Union Minister of State for Railways on 17th August 2008.
14. Inauguration of integrated UTS & PRS Centre at Vaniyambadi Railway Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways 4th September 2008.
15. Commissioning of the Computerised Passenger Reservation System at Madras High Court by Justice A. K. Ganguly, Chief Justice, Madras High Court and Dr. R. Velu, Hon'ble Union Minister of State for Railways on 8th September 2008.
16. Inauguration of Computerised Passenger Reservation System at the Chennai Mofussil Bus Terminus at Koyambedu by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 8th September 2008.
17. Inauguration of Computerised Passenger Reservation Centre at Sriperumbudur Post Office by Dr. R. Velu, Hon'ble Union Minister of State for Railways 12th September 2008.
18. Inauguration of the newly converted broad gauge section between Tirunelveli and Tiruchendur by Dr. R. Velu, Hon'ble Union Minister of State for Railways and Smt. V. Radhika Selvi, Hon'ble Union Minister of State for Home Affairs, at Tiruchendur Railway Station on 27th September 2008.
19. Introduction of stoppage for Train No. 2601/2602 Chennai Central – Mangalore – Chennai Central Mails at Tiruvallur Railway Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 1st October 2008.
20. Laying of foundation stone for ROB's in lieu of level crossings at Arakkonam by Dr. Anbumani Ramadoss, Hon'ble Union Minister of Health & Family Welfare and Dr. R. Velu, Hon'ble Union Minister of State for Railways on 12th October 2008.
21. Flagging off of the Commemorative heritage run to mark the centenary of the Coonoor – Udagamandalam rail line & inauguration of Centenary Arch & Nilagiri Mountain Railway Expo by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 13th October 2008.
22. Laying of foundation stone for a new broad gauge line between Tindivanam and Tiruvannamalai at Gingee by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 15th October 2008.
23. Flagging off of Rameswaram – Chennai Egmore daily express by Shri P. Chidambaram, Hon'ble Union Minister of Finance and Dr. R. Velu, Hon'ble Union Minister of State for Railways at Rameswaram Railway Station on 1st November 2008.
24. Inauguration of newly converted broad gauge section with electrification between Katpadi and Vellore Cantonment with extension of train services to Vellore Cantonment & inauguration of new station building at Vellore Cantonment Railway Station by Dr. Anbumani Ramadoss, Hon'ble Union Minister of Health & Family Welfare and Dr. R. Velu, Hon'ble Union Minister of State for Railways on 10th November 2008.
25. Introduction of stoppages for Train Nos. 6089/6090 Chennai Central – Tirupathur – Chennai Central Expresses at Chitteri Railway Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 15th November 2008.

26. Introduction of stoppage for Train No. 6204 Tirupati – Chennai Central Express at Avadi Railway Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 15th November 2008.
27. Introduction of stoppage for Train Nos. 2605/2606 Chennai Egmore – Tiruchchirappalli – Chennai Egmore Expresses at Melmaruvathur by Dr. R. Velu, Hon'ble Union Minister of State for Railways 15th November 2008.
28. Laying of foundation stone for Rail Neer Plant at Palur by Dr. R. Velu, Hon'ble Union Minister of State for Railways 28th November 2008.
29. Inauguration of new building for Computerised Passenger Reservation System and other passenger amenities at Tiruttani Railway Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways and Dr. Anbumani Ramadoss, Hon'ble Union Minister of Health & Family Welfare on 26th November 2008.
30. Inauguration of new station building & stoppage for Train Nos. 103/104 Chennai Egmore – Puducherry – Chennai Egmore Passengers at Vikravandi Railway Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 14th December 2008.
31. Introduction of stoppage for Train Nos. 2675/2676 Chennai Central – Coimbatore – Chennai Central Kovai Expresses at Walajah Road by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 20th December 2008.
32. Flagging off of Main line EMU services between Vellore Cantonment – Chennai Beach & Chennai Beach – Tirumalpur at Vellore Cantonment Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 21st December 2008.
33. Laying of foundation stone for new station building at Sholingur as part of the Tindivanam – Nagari new broad gauge line project by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 28th December 2008.
34. Laying of foundation stone for new station building at Paslupet as part of the Tindivanam – Nagari new broad gauge line project by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 28th December 2008.
35. Inauguration of Computerised Passenger Reservation Centre at Palayamkottai Municipal Office by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 29th December 2008.
36. Flagging off of Puducherry – Yesvantpur (Weekly) Garib Rath Express at Puducherry Railway Station by Shri V. Vaithilingam, Hon'ble Chief Minister of Pondicherry & Dr. R. Velu, Hon'ble Union Minister of State for Railways 3rd January 2009.
37. Centenary Celebrations of Basin Bridge Coaching Depot 6th January 2009.
38. Inauguration of new building for Computerised Passenger Reservation System at Katpadi Railway Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways 6th January 2009.
39. Introduction of additional battery operated car for physically challenged and aged passengers by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 8th January 2009.
40. Inauguration of new building for Computerised Passenger Reservation System at Avadi Railway Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 23rd January 2009.
41. Heritage Steam Run from Royapuram to Tambaram on 26th January 2009.
42. Flagging off of Tiruchendur – Chennai Egmore Weekly Express at Tiruchendur Railway Station by Shri Lalu Prasad, Hon'ble Union Minister of Railways & Smt. V. Radhika Selvi, Hon'ble Union Minister of State for Home Affairs 8th February 2009.
43. Inauguration of Road Over Bridge at Vadambakkam by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 9th February 2009.
44. Introduction of rail connectivity between Mettur Dam and Chennai Egmore by Dr. R. Velu, Hon'ble Union Minister of State for Railways 11th February 2009.
45. Inauguration of new building for Computerised Passenger Reservation System at Arakkonam Railway Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways 15th February 2009.
46. Laying of foundation stones for new station building & railway bridge across the Cheyyar river by Dr. R. Velu, Hon'ble Union Minister of State for Railways and Dr. Anbumani Ramadoss, Hon'ble Union Minister of Health & Family Welfare on 21st February 2009.
47. Laying of foundation stones for Road Over Bridges in lieu of LC gates near Jolarpettai by Dr. R. Velu, Hon'ble Union Minister of State for Railways and Dr. Anbumani Ramadoss, Hon'ble Union Minister of Health & Family Welfare 21st February 2009.
48. Inauguration of additional opening for Bridge No. 201A & commissioning of High Mast Lamp at Arakkonam Yard by Dr. R. Velu, Hon'ble Union Minister of State for Railways and Dr. Anbumani Ramadoss, Hon'ble Union Minister of Health & Family Welfare 21st February 2009.
49. Flagging off of Kochuveli – Dehradun (Weekly) Superfast Express & Kochuveli – Yesvantpur Garib Rath (Tri-Weekly) Superfast Express by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 22nd February 2009.
50. Inauguration of the newly converted broad gauge section between Tiruvarur – Nagore and flagging off of train services between Tiruvarur & Nagur and laying of foundation stone for new broad gauge line between Nagapattinam and Tiruturaiundi at Tiruvarur Railway Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways on 27th February 2009.
51. Flagging off of Rameswaram – Okha Weekly Express at Rameswaram Railway Station by Dr. R. Velu, Hon'ble Union Minister of State for Railways 27th February 2009.

8. Railway Users' Committee

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

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

One meeting of ZRUCC, Two meetings of DRUCC/Chennai, and one Meeting each of DRUCC/Madurai, Palakkad, Tiruchchirappalli and Trivandrum were held during the year 2008-09.

9. Vigilance Organisation

The functions of Vigilance Department mainly falls under four heads viz. complaint investigations, preventive checks, punitive action and vigilance education. Accordingly, the vigilance department undertakes prompt investigations of authenticated complaints with special emphasis on Presidential & PMO references, CA-iii references, CVC's referred complaints and complaints appearing in the media. Checks are also carried out on serious cases of irregularities, based on source information. A close liaison is maintained with CVC & CBI. A close surveillance is maintained on officials of doubtful integrity and those who are on "Agreed" and "Secret" lists. Regular and surprise inspections are arranged at sensitive work units which are susceptible to corruption. Awareness about Vigilance is disseminated through Vigilance bulletins, seminar, workshops, lectures, etc.

Handling of complaints:

Detailed investigations are undertaken in all cases of genuine complaints. During the year 2008 - 2009, 174 complaints were taken up for investigation.

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

2008 - 2009			
	Gazetted	Non-gazetted	Total
No. of complaints investigated	57	145	202
No. of major penalty proceedings initiated therefrom.	5	37	42
No. of major penalty proceedings initiated therefrom	10	74	84

Preventive Checks:

Sensitive areas are identified on the basis of the checks conducted and further preventive checks are done especially in areas of mass contact. Special schemes like Tatkall are checked to see whether the existing rules are flouted and whether there is any leakage of revenue. The preventive checks also include raids on the premises of unauthorized travel agents to uncover black marketing of rail tickets.

During the year 2008-2009, 2,701 preventive checks were conducted by the Vigilance Organization. Department-wise breakup of checks done is furnished below:

	No. of checks
Accounts	05
Civil Engineering	83
Electrical Engineering	44
Mechanical Engineering	33
Medical	07
Personnel	44
Security	01
Signal & Telecommunication.. .. .	27
Stores	90
Commercial/Operating	2362
Others	05
Total	2701

A total of 33 "Departmental Test Checks" were conducted over stations, Trains, circulating areas of Major stations etc. during the year 2008-09 to curb down the malpractices.

Punitive Action taken during the year 2008 - 2009

The Inquiry Organization functioning under SDGM & CVO has completed 78 Departmental Inquiries during the year 2008 - 2009 and Inquiry Reports were sent to the concerned disciplinary authorities for necessary DAR action.

Penalty	Gazetted	Non-gazetted	Total
MAJOR	6	90	96
MINOR	15	921	936

Earnings accrued to the Railway through Vigilance checks during the year 2008-2009 was Rs. 69,47,039/-

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

Sl. No.	Details of earnings	Amount (Rs.)
1	Earnings from without ticket passengers	24,212
2	Earnings from transferred tickets ..	1,050
3	Earnings from un-booked luggage/parcels	30,426
4	Earnings from undercharges realized ..	14,86,701
5	Earnings from higher travel	13,899
6	Demurrage wharfage charges realized ..	0
7	Earnings from excess/shortfall in Govt. cash.	23,553
8	Other traffic recoveries	9,958
9	Leave Account / Establishment matter ..	27,43,368
10	Technical recoveries	21,33,476
11	Amount realized as fine by Court of Law	4,80,396
Total		69,47,039

System Improvements suggested by Vigilance:

It has come to the notice of Vigilance that in a few cases on Southern Railway, L-1 Tenderer had furnished fake documents to prove his credentials. These were accepted without any verification and works were also awarded. When this was detected, process for banning of these contractors was initiated. The banning of business is a time consuming process and has to be done by Board level. Hence, it is suggested that the following clause may be incorporated in the tenders within the powers of Zonal Railway:-

"If the tenderer/s deliberately gives a wrong information when submitting credentials / documents in his / their tenders and thereby create(s) circumstances for acceptance of his/their tender, Railway reserves the right to reject such tender at any stage, besides, shall suspend the business for One Year".

When a complaint on selection was investigated, it was noticed that most of the questions of the main examination were repeated in the supplementary examination.

Though repeating the same questions in the main and supplementary examination by itself is not against any guidelines issued for selection process, it gives the distinct advantage to the candidates who appear in the supplementary examination over the candidates appearing in the main examination.

As there are no exact guidelines for setting question for the examination, a system improvement was suggested to issue guidelines for setting up question paper for the supplementary examination to avoid very obvious similarities.

In a span of last six months, many instances have come to the notice of vigilance in which serious irregularities were found to have been committed by TTEs manning Sampark Kranti Express trains. The TTEs are manning these trains on end to end basis covering many Railways. To prevent these irregularities, the existing system of TTEs manning the trains from Originating Station to Destination may be abolished and the system of rostering the TTEs of concerned Railways to work these trains over their Jurisdiction may be considered, as being done in other long distance trains.

Based on an investigation carried out at Railway Hospital/Perambur, the following system improvement has been suggested to avoid unauthorized drawal of medicines at RH/PER :—

- (i) OP chits should be printed only on production of Medical ID card.
- (ii) Medical ID cards must have slips attached to it so that whenever OP chits are issued it should be entered in the Medical ID card.
- (iii) Patients drawing medicines regularly must have health record book (It is learnt that around 4 lakhs health record books were printed and kept unused).
- (iv) Staff working in OP counter should have a periodical transfer.
- (v) PF number of the employee should be the unique ID with which medical records can be tracked as against present practice of using SR number as it is observed that there is more than one SR number for a particular employee.
- (vi) The details of LP made can be sent to vigilance branch every month.
- (vii) There should be periodical renewal of medical ID cards.

Vigilance Awareness Programmes:

(i) Vigilance Awareness Week was observed from 3-11-2008 to 7-11-2008 in Southern Railway. During the week, pledge was administered by the Head of the Office in Headquarters, Divisions, Workshops & other offices. Vigilance related banners and posters with important messages and slogans were displayed at prominent places including workshops of Southern Railway. A seminar was organized at Southern Railway Headquarters. Shri N. Vittal, Former CVC was the Chief Guest in the Seminar. Further a talk on "Vigilance for Profitability" by Dr. C.L. Ramakrishnan, Former Director/ACB/Chennai was arranged. Shri Rakesh Chopra, GM/S.Rly., Shri A.P. Mishra, AGM/S.Rly., SAG & JAG officers from Division, Headquarters and Vigilance officers attended the seminar. Seminars, Essay competitions, workshops, debates, etc. were also organized at all Divisions of Southern Railway, Zonal Training School, Central Training Institutes on topics related to Vigilance / Corruption. Wide press coverage was also arranged for all these functions.

(ii) As a measure of spreading Vigilance Awareness among Railway staff and officers a series of meetings were organized.

(1) Corruption prevention education programme has been planned to target different group of officers and staff, one day workshop was conducted for newly recruited Group 'A' officers, which was inaugurated by GM/Southern Railway. Shri C.L. Ramakrishna, Former Director/ACB/Chennai delivered a guest lecture on "Importance of Ethical Approach to Work". A power point presentation followed by discussion of case studies was conducted by Vigilance Officers. In addition, Lectures on the topic of "An Overview on Vigilance" were delivered by Vigilance Officers at Zonal Railway Training Institute, Tiruchchirappalli, to enlighten new recruits (TTE) and senior supervisors.

(2) A Guest Lecture on the topic of "Science of self management" was organized for officers at Suliaya Meeting Hall, HQrs. office, Chennai on 19-3-2009. Shri Sudharshan, an eminent speaker from Vedanta Academy delivered the Lecture. Senior officers of Headquarters and Divisions (via. video conferencing) participated in the above.

(3) A lecture on "Vigilance for Non-vigilance officers" was delivered by Shri V. Appa Rao, Dy. Chief Vigilance Officer/Stores, Southern Railway on 25-03-09 at Railway Staff College, Vadodara.

(4) In an attempt to create vigilance awareness and make front line staff capable of handling challenges arising due to new technological innovations, special meetings were conducted at 23 locations, spread over Southern Railway, during which 603 ticket checking / reservation staff were counseled on the following aspects.

(a) Failure of ECRCs/TTEs in making endorsement in privilege passes resulting in multiple reservations/travel.

(b) Action to be taken by the TTEs while dealing passengers with wait-listed *e-tickets* which are not confirmed at the time of preparation of the chart.

(c) Necessity of co-operation with the Vigilance during checks.

(5) A seminar was organized at Chennai division by Vigilance Branch in which SDGM/S.Rly. addressed all branch officers regarding "Contract Management".

Vigilance Publications during 2008 – 09

A Special Vigilance Bulletin was published during Vigilance Awareness Week incorporating important Railway Board's letters, case studies viz. irregularities in the claim of pension, allowances, advances, fake certificates, irregularities in contracts, accountal and delivery of scrap etc.

10. General manager's Annual Inspection

General manager Annual Inspection along with Principal Heads of Department during year April 2008 to March 2009.

Sl. No.	Dated	Division	Station from to	Distance in Kms.	Gauge
1	28-11-2008	TVC	TEN-NCJ-TVC	144	BG
2	23-1-2009	PGT	MAQ-CAN	132	BG
1	6-3-2009	MDU	TPJ-MDU	154	BG

The above details are furnished in connection with GM's Annual report for the year 2008-09.



II. PROGRESS OF HINDI

1. Organisation

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

2. Training in Hindi

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

Training programme has been made more attractive through multimedia kits. To speed up the training programme fast track module has been developed to impart training to the open line staff. During the year 2008-09 a total of 1,075 employees have been trained in Hindi under various training programmes.

3. Conversational Training

To give training to frontline staff who come in contact with the public, conversational training is being imparted.

4. Hindi Type Writing and Hindi Stenography

On this Railway, part time Hindi Typewriting Centres as on 31-3-09 are functioning at Headquarters /Chennai, TPJ, MDU, PGT. Staff are given training in Hindi Computer Keyboard also. 2,815 employees have been trained till now in Hindi Keyboard and they are typing out small templates in Hindi. There are 114 Officers who give dictation in Hindi also. Hindi Stenography classes are functioning at Headquarters, TPJ, and PGT Division. The services of 75 Stenographers are being utilised for taking dictation in Hindi.

Hindi Workshop.—During the year 2008-09, 18 Hindi Workshops were conducted all over S.Rly and 631 Employees were trained in the workshop.

5. Computerisation in Hindi

There are 2,109 Computers in Southern Railway and all of them have bilingual facility. Southern Railway website www.southernrailway.org. & www.srailway.com have been made bilingual and important templates and annual programme have been uploaded on this site. Information regarding passenger amenities is also available in two languages i.e., English and Hindi.

6. Section 3 (3) of OL Act.

Documents coming under section 3(3) of the OL Act 1963 are to be issued in bilingual form. Southern Railway has achieved 98.99% (31-12-08) compliance during the year under review. All reports submitted to various Parliamentary Committees visiting this Railway have been prepared in Hindi-English bilingual form. All invitations for various functions have been printed in Hindi & English.

7. Implementation

Official Language Implementation Committee

To review the progress of Hindi at different levels 89 OLIC's are functioning in this Railway. Quarterly Meetings of these committees are conducted regularly.

8. Shield

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

9. Use of Hindi in Public Address Systems

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

10. Inspections made by Officers

Officers are requested during the ZOLIC/OLIC meetings to inspect implementation of Hindi also during their routine inspections. Check list of items pertaining to OL Inspections has been provided to all the officers. During the year under review, in 2,327 inspections OL aspect has also been done.

11. Preparation of Charts/Drawings in Hindi

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

12. Original Work in Hindi

Noting in Hindi.—29,999 Employees have used Hindi in their routine notings every quarter.

Entries in Registers/Diaries.—Entries in Hindi are made in registers as far as possible.

Dictation in Hindi.—In this Railway 23 Officers are giving dictation in Hindi.

13. Use of Railnet

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

14. Usage of Templates

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

15. Hindi Magazine

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

16. Hindi Library

To increase the Hindi knowledge of officers and employees, 63 Hindi Libraries are functioning in this Railway. A total number of 2,436 Hindi books were purchased during the year under review.

Activities of Rajbhasha Organisation/Hqrs. in connection with Golden Jubilee Celebrations.

1. The Golden Jubilee Celebrations of Hqrs, S.Rly was inaugurated on 11-10-07 and all the Retired Rajbhasha Adhikari's were honoured during the celebrations.
2. A discussion was held on **"the changing dimension of Rajbhasha propogations"** on 10-01-2008 under the Chairmanship of Dr. P. Jayaraman, Executive Director, Bharatiya Vidya Bhavan, U.S.A. He was honoured during the occassion. He was the first Hindi supervisor of this Railway.
3. On 9-1-08, various competitions were organised for the children of **'ASHRAYA'** school.
4. On 18-2-08, various competitions were held for the students of Railway Mixed Higher Secondary School.
5. On 19-2-08, and on 20-02-08, Quiz on Rajbhasha was held for the employees of Divisions/Workshops and OLIC Clerks of stations respectively.
6. During March 2008, for the progressive use of Hindi in Hqrs, one whitemarker board was distributed to all Branches of Hqrs. for writing **'One Word a day'** in Hindi.
7. On 28-4-2008, various competitions, seminars, etc. were organised for the officers/employees of COS/PER.
8. On 30-06-2008, group singing competition for various departments of Hqrs. was held and seven teams took part.
9. On 25-7-2008, a group singing competition was held in Hqrs. for all divisions/workshops and eight teams participated in the competition.
10. On 5-8-08, a technical seminar was organised at Dakshin Bharat Hindi Prachar Sabha, Ernakulam and the Secretary of Dakshin Bharat Hindi Prachar Sabha, Ernakulam. Joint Director, Railway Board and Hindi Professor of Cochin University took part in the event.
11. On 30-09-08, during the closing ceremony of the Hindi day, the motivating poem written by AGM was done in the form of display board and was released by the General Manager during the occassion.
12. On 31-10-08, a rangoli competition was held for the employees of Rajbhasha Organisation and five teams took part.
13. 3 work-charge posts of RBA/I were created with the courtesy of construction organisation for Hindi cell.
14. Throughout the year, many drivers were conducted on Hindi Work, inspection, dictation, and a positive atmosphere were created in the entire Rly.
15. On 05-12-08, during the closing ceremony of the Golden Jubilee Celebrations, the winners of the various competitions, OLIC clerks and Hindi Librarians were honoured. As a part of the Golden Jubilee celebrations, One humorous poet's meet was organised in the evening.



III. FINANCIAL RESULTS

Financial Results of Working

Financial Results of working for the year 2008–2009 compared with 2007–08 :—

(Rupees in lakhs)		
Particulars	Actuals 2007–08	Actuals 2008–2009
1. (a) Capital-at charge	4,33,330	4,64,765
(b) Investment from Capital Fund	92,946	92,946
2. (a) Gross Traffic Earnings	3,77,204	4,32,404
(b) Suspense	197	(–)968
(c) Gross Traffic Receipts	3,77,401	4,31,436
3. (a) Ordinary Working Expenses..	2,89,623	4,06,125
(b) Suspense	(–)547	(–)291
(c) Ordinary Working Expenses.. (incl. susp.)	2,90,170	4,05,834
4. Appropriation to D. R. F. ..	44,443	56,782
5. Appropriation to Pension Fund ..	62,251	82,195
6. Payment to worked lines ..	—	—
7. Total working Expenses ..	3,96,864	5,44,811
8. Net Traffic Receipts ..	(–) 19,463	(–) 1,13,375
9. Net Miscellaneous Receipts ..	(–) 171	(–) 233
10. Net Revenue	(–)19,634	(–)1,13,608

3. Coaching Earnings

(a) Passenger Earning under important Heads During 2008–2009 compared with 2007–2008 on Central Railway Pattern.

Particulars	Traffic		Earnings		Difference	Percentage of Variation		
	2007–2008		2008–2009					
	Number of pass. (in thousands)	Earnings (in lakhs)	Number of pass. (in thousands)	Earnings (in lakhs)		Number of pass. (in thousands)	Earnings (in lakhs)	Earnings (in lakhs)
A. Non-Suburban								
Air-conditioned First Class	133	1,209	165	1,339	32	130	24.06	10.75
Air-conditioned 2-Tier	1,809	7,260	2,390	8,547	581	1,287	32.12	17.73
Air-conditioned 3-Tier	4,791	15,623	5,901	17,323	1,110	1,700	23.17	10.88
A. C. Chair Car ..	1,402	3,275	1,659	3,462	257	187	18.33	5.71
First Class—								
(a) Mail/Express ..	426	1,441	574	1,823	148	382	34.74	26.51
(b) Ordinary ..	486	133	615	167	129	34	26.54	25.56
Total ..	912	1,574	1,189	1,990	277	416	—	—
Second Class Sleeper—								
(a) Mail/Express ..	37,183	41,300	45,843	46,522	8,660	5,222	23.29	12.64
(b) Ordinary ..	365	239	351	234	(–) 14	(–) 5	(–) 3.84	(–) 2.09
Second Class Ordinary—								
(a) Mail/Express ..	79,112	56,883	94,913	62,787	15,801	5,904	19.97	10.38
(b) Ordinary ..	2,04,972	43,084	2,27,915	54,281	(–) 22,943	(–) 11,197	(–) 11.19	(–) 25.99
Total Non-Suburban ..	3,30,679	1,70,447	3,80,326	1,96,485	49,647	26,038	15.01	15.28
B. Suburban								
First Class (Ordinary)	30	12	43	17	13	5	43.33	41.67
First Class (Season)	5,044	372	6,627	489	1,583	117	31.38	31.45
Second Class (Ordinary)	1,24,619	5,997	1,50,113	6,406	25,494	409	20.46	6.82
Second Class (Season)	1,94,793	3,758	2,01,982	3,952	7,189	194	3.69	5.16
Total Suburban	3,24,486	10,139	3,58,765	10,864	34,279	725	10.56	7.15
Grand Total	6,55,165	1,80,586	7,39,091	2,07,349	83,926	26,763	12.81	14.82

(Rupees in lakhs)

Particulars	Actuals 2007–08	Actuals 2008–2009
11. Payment to General Revenues— Subsidy from General Revenue towards Divident Relief and other concessions.	29,487	31,154
12. Surplus/Shortfall ..	(–)49,121	(–)1,44,762
13. Operating Ratio ..	105.07	126.06
14. Percentage of Net Revenue to Capital-at-charge and Investment from Capital Fund.	(–) 3.73	(–) 20.37

2. Traffic receipts

The details of Revenue Receipts for 2007–08 and 2008–09 :—

(Figures in lakhs of Rs.)			
Heads of Traffic	2007–08	2008–09	Variation
Passenger ..	1,80,586	2,07,349	26,763
Other Coaching ..	20,481	20,839	358
Goods ..	1,65,585	1,89,569	23,984
Sundries ..	10,552	14,648	4,096
Suspense ..	197	(–)968	(–) 1,165
Gross Earnings ..	3,77,401	4,31,437	54,036

(b) Other Coaching Earnings under important heads during 2008-2009 compared with 2007-2008 on Central Railway Pattern :—

(Figures in lakhs)			
Particulars	2007-2008	2008-2009	Variation
1. Special Trains and reserved carriages(Publics)	623	640	17
2. Special Trains and reserved carriages(Military)	761	607	(-) 154
3. Luggage collected at stations ..	411	462	51
4. Luggage collected by special ticket checking staff.	402	516	(-)114
5. Public Parcels	10,371	10,429	58
6. Transport of Mail	1,892	1,990	98
7. Service Parcels	0.00	0.00	0.00
8. Miscellaneous	6,028	6,221	193
Total	20,488	20,865	377
Less Refunds	7	26	19
Net Other Coaching Earnings ..	20,481	20,839	358
Total Coaching Earnings ..	2,01,067	2,28,188	27,121

(c) Goods earnings under important heads during 2008-2009 compared with 2007-2008 on Central Railway pattern—

		Tonnes carried-on System		Earnings	
Sl. No.	Particulars	(in millions)		(Rs. in lakhs)	
		2007-2008	2008-2009	2007-2008	2008-2009
A. Revenue Earnings Traffic:—					
1.	Products of Agriculture	8.435	9.727	27,680	31,683
2.	Animals & Products of Animals.	0.002	0.001	9	1
3.	Products of Mines ..	35.424	34.652	71,095	82,385
4.	Mineral Oil ..	3.357	4.406	10,546	14,324
5.	Products of Forests ..	0.040	0.098	100	212
6.	Manufactures ..	11.558	12.488	31,533	36,197
7.	Miscellaneous ..	8.376	7.249	16,885	13,718
8.	Total Revenue traffic..	67.192	68.621	1,57,848	1,78,520

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 ..	0.221	0.462	0.00	0.00
(b) For other Govt. Rlys., etc.	0.011	0.019	0.00	0.00
11. Total Non-Revenue ..	0.232	0.481	0.00	0.00
12. Grand Total Revenue and Non-Revenue	67.424	69.102	1,57,848	1,78,520

4. Ordinary Working Expenses

Appropriation Accounts 2008-2009—Statement showing percentage of working Expenses to Earnings for the year 2008-2009 :—

Name of the Railway	Percentage of Working Expenses to Earnings
Southern Railway	126.06

I. The Operating ratio for 2008-2009 is 126.06% is 20.99 points more than the Operating ratio of 2007-2008. (105.07%).

(a) The Gross Earnings for 2008-09 is Rs. 4,324.04 crores as against Rs. 3772.04 crores for 2007-2008 with an increase of Rs. 552.60 crores (14.63%).

(b) The Ordinary Working Expenses for 2008-2009 in respect of Grant No. 3 to 13 are more by Rs. 1,165.03 crores (40.23%).

(c) Appropriation to DRF has increased by Rs. 123.39 crores (27.76%) and Appropriation to Pension Fund has increased by Rs. 199.43 crores (32.04%) during 2008-2009.

(d) The Total Working Expenses for 2008-2009 including Appropriation to DRF and Pension Fund is Rs. 5,451.02 crores (excluding suspense) as against Rs. 3,963.16 crores for 2007-2008 with an increase of Rs. 1,487.86 crores (37.54%).

II Earnings.—Analysis of variation over actuals of 2007-2008.

(a) *Passengers* :—The increase under Passenger Earnings is Rs. 267.63 crores which works out to 14.82% over the previous year. The break-up for the increase is as follows :—

(Figures in crores of Rs.)		
Decrease in Rates	Rs.	(-) 92.92
Increase in traffic	Rs.	360.55

(b) *Other Coaching*.—The increase of Rs. 3.58 crores over the previous year works out to 1.75% as detailed below :—

(Figures in crores of Rs.)		
(i) Increase in Parcels	0.50	
(ii) Decrease in Luggage	(-) 3.42	
(iii) Increase Under Military	(-) 1.37	
(iv) Increase in Postal Bills	0.94	
(v) Increase in Others	6.93	
Total ..	3.58	

(c) *Goods Traffic* :—The increase of Rs. 239.83 crores over the previous year works out to (14.48)%. This is due to :—

(Figures in crores of Rs.)		
(i) Increase in Rates	96.36	
(ii) Increase in Traffic	126.80	
(iii) Increase in Miscellaneous Earnings	16.67	
Total ..	239.83	

(d) *Sundries* :—The decrease of Rs. 40.96 crores over the previous year which works out to 38.82%. This is due to:—

(Figures in crores of Rupees.)		
(i) Increase under Rent	0.23	
(ii) Increase under Demands Recoverable	2.92	
(iii) Increase in Catering Earnings	1.37	
(iv) Increase in Others	36.44	
Total ..	40.96	

III. Working Expenses.—Analysis of variation over 2007-2008.

Increase under Ordinary working Expenses covered by -3-Grants 3 to 12 on Gross basis (Voted) excluding suspense, amounts to Rs. 1,15,120.98 lakhs, which works out to 38.78% more than that of the previous year. The broad reasons for variation under Demand 3 to 12 is briefly analysed Primary Unit-wise below :

(Figures in thousands of Rs.)

(1) <i>Salaries and Wages (PU-01)</i> —	
Due to implementation of VI Pay Commission recommendations	72,94,914

(2)	<i>Dearness Allowance (PU -02)—</i>	
	Less due to adjustment of Dearness allowance	(-) 15,90,873
	on account of implementation VI Pay Commission recommendations.	
(3)	<i>Productivity Linked Bonus(PU -03)—</i>	
	Increase in Ceiling and more No. of days of Bonus.	3,72,343
(4)	<i>House Rent Allowance (PU -04)—</i>	
	Due to effect of VI PC recommendations	5,72,183
(5)	<i>City Compensatory Allowance (PU -05)—</i>	
	Less due to with drawal of CCA in of VI PC recommendations.	(-) 61,719
(6)	<i>Transport Allowance (PU -07)—</i>	
	More due to implementation of VI PC recommendations.	5,39,399
(7)	<i>Casual Labour (PU -09)—</i>	
	No variation	0
(8)	<i>Kilometre Allowance (PU -10)</i>	
	Due to increase in rates on account of implementation of VI PC recommendations	1,20,530
(9)	<i>Over time Allowance (PU -11)</i>	
	More due to increase in rates under Operating Services—Drivers and Guards etc., & workshop payments due to VI PC recommendations	10,481
	Minor factors	(-) 532
	Total	9,949
(10)	<i>Night Duty Allowance (PU -12)—</i>	
	Due to increase in rates due to implementation of VI PC recommendations	90,797
	Minor factors	(-) 1,137
	Total	89,660
(11)	<i>Other Allowance (PU -13)—</i>	
	Increase in rate due to VI PC recommendations	1,06,849
	Minor factors	77
	Total	1,06,926
(12)	<i>Fees and Honorarium (PU -14)—</i>	
	Less due to economy measures	(-) 4,730
(13)	<i>Transfer Allowance (PU -15)—</i>	
	Due to increase in rates & transfer of staff	2,272
(14)	<i>Travel Allowance (PU -16)—</i>	
	Due to increase in scale and in rate due to VI PC recommendations	2,54,586
	Minor factors	151
	Total	2,54,737
(15)	<i>Contingencies (PU -18 —24)—</i>	
	Increase in cost of Stationery and telephone charges and provision of Cell phones & CUGs.	47,172
	Increase in use of Lube oil and in Water for service buildings & other activities.	10,711
	Total	57,883

(16)	<i>Drawal from Stores (PU-27)</i>	
	Decrease in activity	(-) 2,760
	Increase due to more drawal of Lubricating oil and Brake blocks and increase in activity	1,22,202
	Increase due to more drawal of HSD Oil for locos for increased traffic	9,84,333
	Total	11,03,775
(17)	<i>Direct Purchase (PU-28)</i>	
	More due to increase in Direct purchase of medicines and other non-stocked items	98,312
	Less purchase of materials	(-) 12,435
	Total	85,877
(18)	<i>Fuel other than traction (PU-31)</i>	
	Less due to decrease in activity	(-) 16,396
(19)	<i>Contractual Payments (PU-32)</i>	
	More due to increase in Permanent Way maintenance	39,171
	Less due to control over Expenditure under D. No. 5 & 6	(-) 29,590
	Increase in EE charges Demand No. 8 and Bed rolls contracts under Demand No. 09	1,44,055
	Increase in EE consumption/tariff-Demand No. 10	5,54,870
	Increase in activity (quarters)	29,634
	Others	31,404
	Total	7,69,544
(20)	<i>Transfer of Debits/ Credit (PU-33)</i>	
	Less transfer of Dr under P. Way & Works	(-) 59,749
	More transfer of Locos, Carriage & Wagons	2,13,406
	More debits under Track machines	34,988
	More debits in IRFC & less credit in IRFA	85,257
	More debits EE tariff	47,280
	More credits under Heart operations	(-) 10,247
	More debits received under RPSF	1,40,772
	Minor factors	768
	Total	4,52,475
(21)	<i>Adjustment of Wages on POH (PU-34)</i>	
	Increase in activity & implementation of VI PC	9,63,816
(22)	<i>Adjustment of Materials on POH (PU-35)</i>	
	Increase in activity	5,30,213
(23)	<i>Excise Duty (PU-36)</i>	
	Less due to decrease in excise duty	(-) 1,19,597
(24)	<i>Customs Duty (PU-37)</i>	
	Less due to decrease duty	(-) 852
(25)	<i>Sales Tax (PU-38)</i>	
	More due to increase in taxes	98,496

(26) Air Travel-Domestic (PU-39)	
More due to increase in taxes	1,272
(27) Air Travel-Foreign (PU-40)	
Trivial	(-) 6
(28) VAT (PU-41)	
More due to purchaser of life savings drugs	5,122
Others	1,437
Total	6,559
(29) Cost of Computers—Hardware/System (PU-50)	
Less purchase of lap-top PCs	(-) 1,170
(30) Computer Consumables (PU-51)	
Decrease in consumables	(-) 11,834
(31) Other Miscellaneous (PU-99)	
More due to increase in commission charges on Pension.	3,838
More due to Permanent Way charges	6,017
More credit received towards Port Trust	(-) 40,519
Damages charges	
More due to P & T rental charges	5,439
With drawal of Port terminal charges	(-) 1,85,109
More due to increase in Freight charges	3,009
More due Medical expenditure	68,117
More due to increase in Cost of Order Police	24,077
Others	1,583
Total	(-) 1,13,545

IV. Appropriation accounts 2008-2009-Percentage of Working expenses to earnings -

(In lakhs of rupees)

	Budget Estimate	Revised Estimate	Actuals 2008-09	Actuals 2007-08	Actuals 2006-07
1. (a) Capital-at-charge	4,56,836	4,69,644	4,64,765	4,33,330	4,15,434
(b) Investment from Capital Fund.	3,05,552	3,07,487	92,946	92,946	92,946
2. Earnings—					
(a) Passenger	1,94,995	2,18,698	2,07,349	1,80,586	1,51,077
(b) Other Coaching	30,759	50,759	20,839	20,481	20,379
(c) Goods	1,87,038	2,05,133	1,89,568	1,65,585	1,50,248
(d) Sundries	13,968	15,066	14,648	10,552	11,238
(e) Total Gross Earnings	4,26,760	4,69,656	4,32,404	3,77,204	3,32,942
(f) Traffic Suspense and demands recoverable.	200	200	(-) 968	197	139
(g) Gross traffic receipts	4,26,960	4,69,856	4,31,436	3,77,401	3,33,081
3. Working Expenses—					
(a) Ordinary working Expenses	3,43,968	3,89,639	4,06,125	2,89,622	2,60,436
(b) Appropriation to DRF	57,122	56,782	56,782	44,443	34,617
(c) Appropriation to Pension Fund	74,804	82,195	82,195	62,251	57,365
(d) Suspense	(-) 13	(-) 179	(-) 291	548	(-) 124
(e) Total working Expenses.	4,75,881	5,28,437	5,44,811	3,96,864	3,52,294
4. Net Traffic Receipts	(-) 48,921	(-) 58,581	(-) 1,13,375	(-) 19,463	(-) 19,213
5. (a) Miscellaneous Receipts	217	167	113	141	4,479
(b) Miscellaneous Payments	212	379	346	313	9,751
Net Miscellaneous Receipt.	5	(-) 212	(-) 233	1,172	5,272
6. Net Revenue	(-) 48,916	(-) 58,793	(-) 1,13,608	(-) 19,635	(-) 24,485
7. (a) Payment to General Revenue	30,734	31,367	31,154	29,487	26,430
(b) Subsidy from G. R. towards dividend relief & other concessions.	3,029	3,363	-	3,400	3,299
8. Surplus (+)/Deficit(-)	(-) 76,621	(-) 86,797	(-) 1,44,762	(-) 45,722	(-) 47,616
9. Percentage of working expenses to Gross Earnings	111.51	112.55	126.06	105.07	105.85

Summary

Sl. No. (Figures in thousands of Rs.)

1. More to working expenses (Demand 3-12)	1,15,12,098
2. More under DRF	12,33,900
3. More under Pension Fund	19,94,331
4. More under charged (3-12)	6,608
5. Less credits Realised (3-12)	79,867
6. More under PF, Pension & Other Retirement Benefits.	51,689
Total	1,48,78,493

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

Demand No.	Abstract	Particulars	2007-2008	2008-2009
(3) A	General Superintendence and Services		20,13,720	30,90,196
(4) B	Repairs and Maintenance of Permanent Way and Works.		28,90,274	39,56,253
(5) C	Repairs and Maintenance of Motive Power		16,16,303	24,59,831
(6) D	Repairs and Maintenance of Carriage and Wagon.		36,06,242	53,88,991
(7) E	Repairs and Maintenance of Plant and Equipment.		15,17,155	23,02,709
(8) F	Operating Expenses—Rolling Stock & Equipment.		23,67,539	34,55,011
(9) G	Operating Expenses—Traffic..		44,67,489	65,75,330
(10) H	Operating Expenses—Fuel		77,86,756	93,52,568
(11) J	Staff Welfare and Amenities ..		14,62,897	21,14,600
(12) K	Miscellaneous working expenses		11,50,199	17,81,657
(13) L	Net Provident Fund, Pension and other Retirement Benefits.		83,672	1,35,361
Total			2,89,62,246	4,06,12,507

Suspense—

(12) N. Demands Payable (DR.)	(-) 86,976	(-) 4,10,392
(12) N. Miscellaneous Advances Revenue	1,41,725	3,81,243

(iii) The particulars of additional investment on the Line Capacity Work and Traffic Facility Works during the year 2008-2009 as compared to the previous year 2007-2008 are furnished below :—

(Net figures in thousands of Rupees)

	2007-2008	2008-2009
(1) Capital	4,66,033	5,69,542
(2) D. R. F.	1,25,554	(-) 4,27,537
(3) D. F.	1,84,732	1,63,629
(4) Capital Fund	60,81,585	65,44,943
(5) O. L. W. R.	1,833	2,396
Total	68,59,737	68,52,973

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

2007-2008	Capital	DRF	DF	Cap. Fund	OLWR	RSF	SRSF	Total
Gauge Conversion	4,38,301	1,85,277	0	36,79,044	0	0	0	43,02,622
Doubling ..	0	(-) 57,106	0	22,25,177	0	0	0	21,68,071
Tfc. Facilities ..	27,732	(-) 2,617	1,84,732	1,77,364	1,833	0	0	3,89,044
Total ..	4,66,033	1,25,554	1,84,732	60,81,585	1,833	0	0	68,59,737

2008-2009	Capital	DRF	DF	Cap. Fund	OLWR	RSF	SRSF	Total
Cauge Conversion	6,66,796	(-)4,99,988	0	37,42,593	0	0	0	39,09,430
Doubling ..	(-)1,45,425	72,336	519	27,54,008	0	0	0	26,81,438
Tfc. Facilities ..	48,171	86	1,63,110	48,342	2,396	0	0	2,62,105
Total ..	5,69,542	(-)4,27,537	1,63,629	65,44,943	2,396	0	0	68,52,973

5. Capital

Statement showing the Capital-at-charge at the end of 31st March 2009 compared with 31st March 2008 is furnished below. The capital-at-charge of this Railway stood at Rs.4,64,765 lakhs at the end of 31st March, 2009 as against Rs. 4,33,330 lakhs at the end of 31st March 2008.

6. Assets and Liabilities—

(a) Statement of Assets and Liabilities as on 31st March 2009, 2008 & 2007 in the form of Block Account—

Liabilities	As on 31st March			Assets As on 31st March	(Figures in lakhs of Rupees)		
	2007	2008	2009		2007	2008	2009
I. (a) Investment Financed from—							
(i) Loan Capital Advance by General Exchequer.	4,14,630	4,32,526	4,63,961	1. Cash in Hand ..	3,505	4,438	7,312
(ii) Depreciation Reserve Fund	1,97,298	2,32,170	2,80,175	2. Block Account (Contra item 1)	9,56,402	11,06,918	12,98,577
(iii) Development Fund	77,643	92,841	1,13,020	3. Funds with Central Government (Contra item 2 & 3)	(-) 2,72,502	(-) 3,78,241	(-) 4,91,745
(iv) Capital Fund	1,52,850	2,27,692	3,14,544	4. Miscellaneous Advance—Sundry Debtors (to be recovered or adjusted).	14,364	15,853	19,423
(v) Open Line Works Revenue	8,173	8,451	8,735	5. Traffic Earnings (yet to be realised at the end of the year).	1,298	1,088	2,199
(vi) Railway Safety Fund	16,343	20,902	25,806	6. Items awaited adjustment with Civil Department, State Government, etc.	255	244	262
(vii) Special Railway Safety Fund	89,457	92,328	92,328				
(b) Machinery and Equipment free of cost.	8	8	8				
	9,56,402	11,06,918	12,98,577				
2. Railway Reserve Fund—							
(i) Depreciation Reserve Fund	1,38,045	1,53,182	1,69,700				
(ii) Railway Revenue Reserve Fund	0	0	0				
(iii) Development Fund	(-) 80,303	(-) 95,797	(-) 1,16,974				
(iv) Capital Fund	(-) 1,40,143	(-) 2,14,984	(-) 3,01,835				
(v) Pension Fund	(-) 2,26,193	(-) 2,58,136	(-) 3,01,364				
(vi) Railway Safety Fund	(-) 15,851	(-) 20,411	(-) 25,315				
(vii) Special Railway Safety Fund	(-) 40,861	(-) 43,732	(-) 43,732				
	(-) 3,65,306	(-) 4,79,878	(-) 6,19,520				
3. Bank Account (Sundry Creditors)—							
(i) Provident Fund and other funds	49,005	52,118	64,361				
(ii) Miscellaneous Deposits	43,799	49,519	63,414				
	92,804	1,01,637	1,27,775				
4. Demands Payable (i. e.) liabilities remaining undischarged at the end.	9,745	10,614	14,718				
5. Net Liabilities arising out of inter-departmental transactions.	9,677	11,009	14,478				
Total ..	7,03,322	7,50,300	8,36,028	Total ..	7,03,322	7,50,300	8,36,028

(b) Profit and Loss Account for the year 2008–2009 compared with 2007–2008—

(b) Profit and Loss Account for the year 2007–2008 compared with 2007–2008—				(Figures in thousands of Rupees)			
Particulars		2007–2008	2008–2009	Particulars		2007–2008	2008–2009
I. To Working Expenses—				(i) By Earnings —			
A-3	General Superintendence & services..	20,13,720	30,90,196	Gross Traffic Receipts .. ..		..	..
B-4	Repairs and Maintenance of Permanent Way and Works.	28,90,273	39,56,253	Passenger Earnings.. ..		1,80,58,629	2,07,34,924
C-5	Repairs and Maintenance of Motive Power	16,16,303	24,59,831	Other Coaching Earnings		20,48,121	20,83,919
D-6	Repairs and Maintenance of Carriage and Wagons.	36,06,242	53,88,992	Goods Earnings		1,65,58,445	1,89,56,854
E-7	Repairs and Maintenance of Plant and equipment.	15,17,155	23,02,709	Others		10,55,209	14,64,763
F-8	Operating Expenses—Rolling Stock and equipment.	23,67,539	34,55,011	Suspense		(–) 19,725	96,764
G-9	Operating Expenses—Traffic	44,67,489	65,75,330	(ii) Miscellaneous receipts including receipts from Surcharge on Passenger Tickets.		(–) 49,472	16,053
H-10	Operating Expenses—Fuel..	77,86,756	93,52,568	(iii) Subsidy from General Revenues towards Dividend.		3,39,977	3,33,212
J-11	Staff Welfare and Amenities..	14,62,897	21,14,600	(iv) Gross Loss		20,09,838	1,11,88,529
K-12	Miscellaneous Working Expenses	11,50,199	17,81,657				
N-12	Suspense	54,751	(–) 29,148				
L-13	Provident Fund, Pension and other Retirement Benefits.	83,672	1,35,361				
	Appropriation to D. R. F. ..	44,44,300	56,78,200				
	Appropriation to Pension Fund ..	62,25,139	82,19,470				
II. Payment to Worked Lines.							
III. Miscellaneous Expenditure—							
Survey	3,153	5,381					
Open line works (Revenue)	28,099	29,229					
Audit	71,242	1,04,206					
Government Inspection	0	0					
Cost of Railway Board	1,49,848	2,13,064					
Railway Recruitment Board	62,245	42,108					
Miscellaneous charges	0	0					
Total	4,00,01,022	5,48,75,018	Total		4,00,01,022	5,48,75,018	
To Gross Loss	20,09,838	1,11,88,529	Net & Loss		49,58,584	1,43,03,958	
Payment to Dividend to General Revenue	29,48,746	31,15,429					
Grand Total	49,58,584	1,43,03,958					

7. Statement of Capital assets at the end of March 2008 and March 2009 is given below—

(Figures in thousands of Rupees)

	Capital at charge as on 31st March 2008	Capital at charge as on 31st March 2009
11. New Line Construction ..	77,05,270	88,70,929
12. Purchase of New line ..	1,31,779	1,31,779
13. Restoration of dismantled line	(-) 89	(-) 89
14. Gauge conversion ..	1,35,85,725	1,42,56,621
15. Doubling	94,01,529	92,56,104
16. Traffic facilities & Yard remodelling	12,38,260	12,86,529
17. Computerisation ..	6,416	6,416
21. Rolling Stock	67,46,135	79,28,040
31. Track Renewals ..	(-) 1,749	(-) 1,749
32. Bridge Works	8,812	8,812
33. Signalling & Tele-com. Works	93,101	1,20,377
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 ..	1,26,856	1,62,292
41. Machinery and Plant ..	1,55,621	1,74,509
42. Workshop including production units	11,47,347	13,49,512
51. Staff Quarters.. ..	4,87,226	5,04,992
52. Amenity for Staff ..	64,481	64,932
53. (i) Passenger Amenities	5,042	5,042
(ii) Other Railway users' Amenities.	(-) 100	(-) 100
62. Investment in Government/Commercial undertaking Public services.	..	..
64. Other specified works ..	77,188	80,463
71. Suspense	16,90,532	16,14,995
Deduct Receipt on Capital Account	9,30,186	9,37,764
Total Capital at charge	4,33,33,024	4,64,76,470

8. The Position of the funds maintained by the Southern Railway for 2008–2009 is indicated below—

(Figures in thousands of Rupees)

<i>Nature of Fund Accounts</i>	<i>Opening balance as on 1st April 2008</i>	<i>Appropriation during the year 2008-2009 Including interest and transfers without financial adjustment</i>	<i>Withdrawal from the fund Actual Expenditure</i>	<i>Balance as on 31st March 2009</i>
1. Depreciation Reserve Fund.	1,53,18,206	72,55,550	56,03,786	1,69,69,970
2. Pension Fund	(-) 2,58,13,658	63,31,724	1,06,54,463	(-) 3,01,36,397

9. The sources of funds from which expenditure on works met during the year 2007–2008 and 2008–2009.

(Figures are Net and in thousands of Rupees)

2007-2008 2008-2009

1. Capital (including Transfers without Financial Adjustment)	17,89,646	31,43,446
2. Depreciation Reserve Fund ..	39,46,477	56,03,785
3. Development Fund * ..	15,49,407	21,17,697
4. Railway Safety Fund ..	4,55,939	4,90,408
5. Special Railway Safety Fund ..	2,87,082	0
6. Open Line Works—Revenue ..	28,099	29,229
7. Capital Fund: ..	74,84,130	86,85,167
Total ..	1,55,40,780	2,00,69,731

* Inclusive of Expenditure towards—

2007-2008 2008-2009

(i) Safety Works D.F. IV ..	..	2,95,164	3,98,953
(ii) Passenger Amenities Works ..	..	6,61,404	8,02,428

10. Statement showing the expenditure—Plan head-wise for the year 2008–2009

(Figures in thousands of Rupees)

[illegible]

(Figures in thousands of Rupees)

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)
8.	Rolling Stock (21)	Gross 13,05,455	.. 23,95,173	.. 49,451	.. 4,99,825	..	..	..	..	..	..	..	..	..	..	42,49,904	..
		Credit ..	.. 2,57,554	..	..	..	..	..	..	..	..	..	..	..	..	2,57,554	..
		Net 13,05,455	.. 21,37,619	.. 49,451	.. 4,99,825	..	..	..	..	..	..	..	..	..	..	39,92,350	..
	(i) Locomotives	Gross 6,52,576	.. 6,38,976	..	..	..	..	..	..	..	..	..	..	..	..	12,91,552	..
		Credit ..	.. 80,674	..	..	..	..	..	..	..	..	..	..	..	..	80,674	..
		Net 6,52,576	.. 5,58,302	..	..	..	..	..	..	..	..	..	..	..	..	12,10,878	..
	(ii) Loco Spares	Gross 53,839	.. 1,99,061	..	..	..	..	..	..	..	..	..	..	..	..	2,52,900	..
		Credit ..	..	..	..	..	..	..	..	..	..	..	..	..	..	2,52,900	..
		Net 53,839	.. 1,99,061	..	..	..	..	..	..	..	..	..	..	..	..	2,52,900	..
	(iii) Carriages	Gross 6,04,267	.. 12,84,613	.. 49,451	.. 1,738	..	..	..	..	..	..	..	..	..	..	19,40,069	..
		Credit ..	.. 39,574	..	..	..	..	..	..	..	..	..	..	..	..	39,574	..
		Net 6,04,267	.. 12,45,039	.. 49,451	.. 1,738	..	..	..	..	..	..	..	..	..	..	19,00,495	..
	(iv) Wagons	Gross -9,511	.. 2,73,387	..	..	..	..	..	..	..	..	..	..	..	..	2,63,876	..
		Credit ..	.. 1,37,306	..	..	..	..	..	..	..	..	..	..	..	..	1,37,306	..
		Net -9,511	.. 1,36,081	..	..	..	..	..	..	..	..	..	..	..	..	1,26,570	..
	(v) Rail-cum-road service.	Gross ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Credit ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	(vi) Others	Gross 4,284	.. 109	..	..	..	..	-2,393	..	..	..	..	..	..	..	2,000	..
		Credit ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net 4,284	.. 109	..	..	..	..	-2,393	..	..	..	..	..	..	..	2,000	..
	(vii) Track Machine	Gross ..	.. -973	..	..	..	..	5,00,480	..	..	..	..	..	..	..	4,99,507	..
		Credit ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net ..	.. -973	..	..	..	..	5,00,480	..	..	..	..	..	..	..	4,99,507	..
9.	LA-LC TO IRFC, ETC. (22)	Gross ..	..	..	..	..	..	16,40,400	..	..	..	..	..	..	..	16,40,400	..
		Credit ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net ..	..	..	..	..	..	16,40,400	..	..	..	..	..	..	..	16,40,400	..
10.	RD-SFT-UN-MAN (29)	Gross ..	..	..	..	..	..	..	91,679	..	..	..	..	..	..	91,679	..
		Credit ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net ..	..	..	..	..	..	..	91,679	..	..	..	..	..	..	91,679	..
11.	RD-SFT-OB/UB (30)	Gross ..	..	..	..	..	..	..	3,97,518	1,427	..	..	..	..	..	3,97,518	1,427
		Credit ..	..	..	..	..	..	..	217	..	..	..	..	..	..	217	..
		Net ..	..	..	..	..	..	..	3,97,301	1,427	..	..	..	..	..	3,97,301	1,427
12.	Track Renewals (31)	Gross ..	.. 33,51,014	..	..	..	..	..	..	..	..	..	..	..	..	33,51,014	..
		Credit ..	.. 6,44,095	..	..	..	..	..	..	..	..	..	..	..	..	6,44,095	..
		Net ..	.. 27,06,919	..	..	..	..	..	..	..	..	..	..	..	..	27,06,919	..
13.	Bridge Works (32)	Gross ..	.. 1,35,129	2,046	3,900	..	..	..	..	..	..	..	..	..	..	1,39,029	2,046
		Credit ..	.. 0	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net ..	.. 1,35,129	2,046	3,900	..	..	..	..	..	..	..	..	..	..	1,39,029	2,046
14.	Signalling and Tele-communication (33)	Gross 27,276	.. 3,51,953	5 4,90,688	..	..	..	..	..	..	..	..	..	73	..	8,69,990	..
		Credit ..	.. 9,970	.. 6	..	..	..	..	..	..	..	..	..	..	..	9,976	..
		Net 27,276	.. 3,41,983	5 4,90,682	..	..	..	..	..	..	..	..	..	73	..	8,60,014	..
15.	Taking of lines from P. & T. (34)	Gross ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Credit ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16.	Electrification Project. (35)	Gross ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Credit ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17.	Other Electrical Works. (36)	Gross 35,435	.. 1,29,042	.. 25,122	..	..	..	..	..	..	..	..	..	8,493	..	1,98,092	..
		Credit ..	.. 77	.. 13	..	..	..	..	..	..	..	..	..	..	..	90	..
		Net 35,435	.. 1,28,965	.. 25,109	..	..	..	..	..	..	..	..	..	8,493	..	1,98,002	..
18.	Machinery & Plant (41)	Gross 18,888	.. 1,61,206	.. 4,604	..	..	..	..	..	..	..	..	..	5,242	..	1,89,940	..
		Credit ..	.. 15	..	..	..	..	..	..	..	..	..	..	..	..	15	..
		Net 18,888	.. 1,61,191	.. 4,604	..	..	..	..	..	..	..	..	..	5,242	..	1,89,925	..

(Figures in thousands of Rupees)

Statement showing the break-up of expenditure under the plan head "Rolling Stock" for the year 2008-2009.

21. Rolling Stock—

(Figures in thousands of Rupees)

[illegible]

(Figures in thousands of Rupees)

		Capital		DRF		DF		Capital Fund		R.S.F.		S.R.S.F.		OLWR		Total	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
	B.O.Gr. & Net.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(vi) Others	O. B. O. Gross	4,284	-	109	-	-	-	-2,393	-	-	-	-	-	-	-	2,000	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	4,284	-	109	-	-	-	-2,393	-	-	-	-	-	-	-	2,000	-
	B.O.Gr. & Net.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(vii) Track	O. B. O. Gross	-	-	-973	-	-	-	5,00,480	-	-	-	-	-	-	-	4,99,507	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Machine	Net	-	-	-973	-	-	-	5,00,480	-	-	-	-	-	-	-	4,99,507	-
	B.O.Gr. & Net.	15,29,918	-	19,69,307	-	49,451	-	4,99,825	-	-	-	-	-	-	-	40,48,501	-
Total	O.B.O. Gross	(-) 2,24,463	-	4,25,866	-	-	-	-	-	-	-	-	-	-	-	2,01,403	-
	Credit	-	-	2,57,554	-	-	-	-	-	-	-	-	-	-	-	2,57,554	-
	Net	(-) 2,24,463	-	1,68,312	-	-	-	-	-	-	-	-	-	-	-	-56,151	-
	Gross	(-) 13,05,455	-	23,95,173	-	49,451	-	4,99,825	-	-	-	-	-	-	-	42,49,904	-
Rolling Stock Grand Total	Credit	-	-	2,57,554	-	-	-	-	-	-	-	-	-	-	-	2,57,554	-
	Net	(-) 13,05,455	-	21,37,619	-	49,451	-	4,99,825	-	-	-	-	-	-	-	39,92,350	-

Statement showing the break-up of Expenditure under the Plan Head " Machinery and Plant " for the year 2008-2009.

(Figures in thousands of Rupees)

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	12,874	-	80,119	-	2,670	-	-	-	-	-	-	-	2,583	-	98,246	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	12,874	-	80,119	-	2,670	-	-	-	-	-	-	-	2,583	-	98,246	-
(ii) Electrical	Gross	1,988	-	34,631	-	1	-	-	-	-	-	-	-	639	-	37,259	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	1,988	-	34,631	-	1	-	-	-	-	-	-	-	639	-	37,259	-
(iii) Civil Engineering	Gross	451	-	20,842	-	-	-	-	-	-	-	-	-	-	-	21,293	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	451	-	20,842	-	-	-	-	-	-	-	-	-	-	-	21,293	-
(iv) General Stores	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(v) Accounts	Gross	324	-	-	-	-	-	-	-	-	-	-	-	-	-	324	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	324	-	-	-	-	-	-	-	-	-	-	-	-	-	324	-
(vi) Signal and Tele-communication	Gross	2,403	-	1,214	-	-	-	-	-	-	-	-	-	-	-	3,617	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	2,403	-	1,214	-	-	-	-	-	-	-	-	-	-	-	3,617	-
(vii) Medical	Gross	-	-	20,944	-	1,933	-	-	-	-	-	-	-	-	-	22,877	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-	-	20,944	-	1,933	-	-	-	-	-	-	-	-	-	22,877	-
(viii) Security	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(ix) Operating	Gross	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Credit	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Net	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
(x) General	Gross	848	-	3,456	-	-	-	-	-	-	-	-	-	2,020	-	6,324	-
	Credit	-	-	15	-	-	-	-	-	-	-	-	-	-	-	15	-
	Net	848	-	3,441	-	-	-	-	-	-	-	-	-	2,020	-	6,309	-
Total Machinery and Plant	Gross	18,888	-	1,61,206	-	4,604	-	-	-	-	-	-	-	5,242	-	1,89,940	-
	Credit	-	-	15	-	-	-	-	-	-	-	-	-	-	-	15	-
	Net	18,888	-	1,61,191	-	4,604	-	-	-	-	-	-	-	5,242	-	1,89,925	-

11. Correction of Expenditure of Performance*Grant No. 5—Abstract 'C'—Repairs and Maintenance of Motive Power**Grant No. 6—Abstract 'D'—Repairs and Maintenance of Carriages and Wagons**(Figures in lakhs of Rupees)*

Sl. No.	Particulars	2006-07	2007-08	2008-09	Particulars	2006-07	2007-08	2008-09
1.	Expenditure actually booked ..	51,367.74	57,612.05	83,853.45	III. Electrical—			
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.	1,772.56	5,688.58	30,188.57	(i) Expenditure on Locomotives workshop Repairs.	2,865.80	5,165.68	7,894.89
3.	Locomotives :				(ii) Proportionate amount of extraneous factors.	98.89	510.06	2,842.29
	I. Steam—				(iii) Debits raised by South Central Railway for work done.	..	..	..
	(i) Expenditure on Locomotives Workshop Repairs.	112.00	103.86	61.79	(iv) Comparable expenditure item (i) Minus item (ii) Minus (iii).	2,766.91	4,655.62	5,052.60
	(ii) Proportionate amount of extraneous factors.	3.86	10.26	22.25	(v) Index of comparable expenditure (Per cent).	100.00	168.26	182.61
	(iii) Debits raised by South Central Railway for Work done.	..	..	..	(vi)(a) Performance measured in terms of standard 1st Class or units repaired—			
	(iv) Comparable expenditure (Item (i) minus item (ii) minus (iii)).	108.14	93.60	39.54	Broad Gauge ..	255.14	268.82	281.24
	(v) Index of Comparable expenditure (per cent).	100.00	86.56	36.57	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 ..	1.00	1.00	2.00	Broad Gauge ..	1.94	1.87	1.88
	Narrow Gauge ..	..	..	..	Metre Gauge ..	..	..	..
	(b) Performance measured per million equated engine kilometres—				Narrow Gauge ..	..	..	..
	Broad Gauge ..	..	..	..	(c) Performance measured per million Gross tonne kilometres—			
	Metre Gauge ..	28.57	29.41	60.61	Broad Gauge ..	0.007	0.006	0.006
	Narrow Gauge ..	..	..	..	Metre Gauge ..	#DIV/0!	#DIV/0!	..
	II. Diesel—				Narrow Gauge ..	..	..	..
	(i) Expenditure on Locomotives Workshop Repairs.	2,581.49	3,775.35	5,139.85	IV. Carriages—			
	(ii) Proportionate amount of extraneous factors.	89.08	372.78	1,850.43	(i) Expenditure on Carriage Workshop Repairs.	13,957.12	14,191.93	20,521.04
	(iii) Debits raised by CLW/CRJ, DLW, etc.	..	..	..	(ii) Proportionate amount of extraneous factors.	481.62	1,401.30	7,387.90
	(iv) Comparable expenditure item (i) Minus item (ii) Minus (iii).	2,492.41	3,402.57	3,289.42	(iii) Comparable expenditure (Item (i) minus Item (ii)).	13,475.50	12,790.63	13,133.14
	(v) Index of comparable expenditure (Per cent).	100.00	136.52	131.98	(iv) Index of Comparable expenditure (Per cent)	100.00	94.92	97.46
	(vi) (a) Performance measured in terms of standard 1st Class or units repaired—				(v) (a) Performance measured in terms of number repaired.			
	Broad Gauge ..	94.00	99.00	54.00	(1) Passenger Carriages (in terms of four-wheelers)			
	Metre Gauge ..	5.00	1.00	20.00	Broad Gauge ..	5,734.00	5,924.00	3,954.00
	Narrow Gauge ..	..	..	..	Metre Gauge ..	536.00	238.00	164.00
	(b) Performance measured per million equated engine kilometres—				Narrow Gauge ..	..	..	..
	Broad Gauge ..	0.89	1.87	0.45	(2) Other Coaching Vehicles			
	Metre Gauge ..	0.44	0.23	6.75	Broad Gauge ..	354.00	306.00	171.00
	Narrow Gauge ..	..	..	..	Metre Gauge ..	16.00	2.00	0.00
					Narrow Gauge ..	..	..	..
					(3) Performance of passenger carriage measured per million passenger train kilometres—			
					Broad Gauge ..	168.50	159.74	102.57
					Metre Gauge ..	119.83	125.86	125.48
					Narrow Gauge ..	..	..	..
					(4) Performance of other coaching vehicles measured per million vehicle kilometres—			
					Broad Gauge ..	16.71	9.27	1.45
					Metre Gauge ..	16.00	#DIV/0!	#DIV/0!
					Narrow Gauge ..	..	..	..

(Figures in lakhs of Rupees)

Particulars	2006-07	2007-08	2008-09
(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	88.79	66.54
V. Wagons—			
(i) Expenditure on Wagon work - shop Repairs.	2,404.14	2,518.43	4,006.99
(ii) Proportionate amount of extraneous factors.	82.96	248.67	1,442.58
(iii) Debits raised by other Railways for POH of S. Rly. Wagons.	..	..	..
(iv) Comparable expenditure (Item (i) Minus item (ii) Minus (iii)).	2,321.18	2,269.76	2,564.41
(v) Index of comparable expenditure (Per cent).	100.00	97.78	110.48
(vi) (a) Performance measured in terms of number repaired			
Broad Gauge	241.00	302.00	174.00
Metre Gauge	6.00	0.00	0.00
Narrow Gauge	..	..	..
(b) Performance measured per million wagon Kms. (in terms of four wheelers)—			
Broad Gauge ..	0.19	0.23	0.30
Metre Gauge ..	1.20	0.00	#DIV/0!
Narrow Gauge ..	..	..	..
(c) Performance measured per million net tonne kilometres—			
Broad Gauge ..	0.016	0.020	0.011
Metre Gauge ..	0.136	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).	173.15	101.70	
(vii) Expenditure on other than loco carriage and wagon workshop repairs as booked.	2,9447.19	31,856.80	46,228.89
(viii) Proportionate amount of element of extraneous factors.	1,016.14	3,145.52	16,643.13
(ix) Comparable expenditure (Item VII—Item VIII)	28,431.05	28,711.28	29,585.76
(x) Index of comparable expenditure (Per cent).	100.99	104.06	
(xi) Gross tonne kilometres (All traction goods and proportionate of mixed plus passenger EMU and Rail Cars) (in millions).	73,649	74,331	83,616
(xii) Index of Performance ..	100.00	100.93	113.53

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

(Figures in lakhs of Rupees)

Particulars	Actuals 2006-07	Actuals 2007-08	Actuals 2008-2009
1. Gross expenditure under Grant No. 8.	22,087.11	24,497.61	35,349.95
2. Extraneous items to be excluded.—			
(a) Expenditure on Electrical services.	4,991.80	5,622.70	6,645.80
(b) Effect of Additional D. A. & I. R.	..	889.24	-538.26
(c) Effect of PLB	..	63.86	416.26
(d) Increase in Cost of Stores	..	503.31	913.50
Total Item II ..	4,991.80	7,079.11	7,437.30
3. Comparable expenditure (Item 1 minus Item II).	17,095.31	17,418.50	27,912.65
4. Index of comparable expenditure (Per cent)	100.00	101.89	163.28
5. Performance measured in terms of Train kilometres.	61,045.00	61,627.00	63,510.00
6. Index of performance (per cent)	100.00	100.95	104.04

Grant No. 9—Operating Expenses—Traffic—

(Figures in lakhs of Rupees)

Particulars	Actuals 2006-07	Actuals 2007-08	Actuals 2008-2009
1. Gross expenditure under Grant No. 9.	37,368.19	44,755.47	65,819.13
2. Extraneous items to be excluded.—			
(a) Effect of Additional D. A. & I. R.	..	2,845.03	-1,389.45
(b) Effect of PLB	..	46.53	1,098.19
(c) Effect of IRCA & IRFC transaction			
I. R. C. A.	..	-488.73	-3,348.98
I. R. F. C.	..	2,566.00	6,082.00
Total Item II ..	..	4,968.83	2,441.76
3. Comparable expenditure (Item 1, minus Item II)	37,368.19	39,786.64	63,377.37
4. Index of comparable expenditure (Per cent).	100.00	106.47	169.60
5. Performance measured in terms of Train kilometres	61,045.00	61,627.00	63,510.00
6. Index of performance (Per cent).	100.00	100.95	104.04

Grant No. 10—Operating Expenses—Fuel

(Figures in lakhs of Rupees)

(Figures in lakhs of Rupees)				(Figures in lakhs of Rupees)			
Particulars	2006-07	2007-08	2008-09	Particulars	2006-07	2007-08	2008-09
I. Gross expenditure under Grant No.10—Operating Expenses—Fuel.	74,208.10	78,119.54	93,888.49	(9) Increase in average cess and sales tax on coal (due to revision of cess rate).	..	(-) 2.02	8.95
II. Extraneous factors contributing to increase/decrease in Gross expenditure —				(10) Increase in average cess and Sales tax on H. S. D. oil (due to change of supply point).	..	5,109.71	4,502.68
(1) Increase in rates of D. A. and I. R.	..	5.73	-27.68	(11) Revision of Electricity charges including penal levy.	..	(-)809.71	1,351.03
(2) Annual scale increase, Operating of posts and restructuring of cadre.	..	(-) 7.29	109.97	(12) Throw forward debits of K. P. Dock.	..	..	..
(3) Increase in other allowances.	..	2.59	34.83	(13) Increase in average issue rate of H. S. D. oil.	..	..	..
(4) Variation of sea-rail freight due to change in freight structures including reduction in subsidy.	..	..	..	(14) Reduction in average rate due to change in pattern.	..	..	..
(5) More/Less adjustment of storages.	..	..	..	(15) Arrears payment freight charges on Bengal Rail Borne coal.	..	..	..
(6) Increase/Decrease due to change in average rate of freight.	..	69.78	145.43	Total II	..	1,413.77	11,460.52
(7) Increase in prime cost of Coal.	..	(-) 0.02	69.23	III. Comparable Expenditure (Item I—Item II).	74,208.10	76,705.77	82,427.97
(8) Increase in prime cost of Diesel.	..	(-) 2,955.00	5,266.08	IV. Index of Comparable expenditure.	100.00	103.37	111.08
				V. Performance measured in terms of Gross Tonne Kilometer of all tractions (in Millions).	73,649	74,331	83,616
				VI. Index of Performance	100.00	100.93	113.53



IV. NEW CONSTRUCTION AND ENGINEERING WORKS

New Lines Opened

Sl. No.	Name of Work	Cost Rs. in lakhs	Remarks
a) New lines opened during the year 2008–2009			
1.	MAS, SA, PGT, TVC, TPJ & MDU		Nil
2.	CAO/CN/MS AND CE/CN/MS	..	Nil
3.	MTP–MRTS Phase II	..	Nil

2. New Lines Under Construction

Sl. No.	Division	Name of Works	Cost Rs. in lakhs	% of over all progress as on 2008-09	Remarks
1.	MAS				
2.	SA				
3.	PGT	Nil			
4.	TVC				
5.	TPJ				
6.	MDU				
7.	MTP	Extension of MRTS phase II from Velacheri to St. Thomas Mount	495.74	0.08	New works sanctioned in 2006-07, Physical work commenced in 2008-09.
8.	CN/MS	1. Tanur (Kuttipuram) Guruvayur–New line (51 kms.)	137.71	0%	The Hon'ble High Court of Kerala has directed the State Authorities to complete the land acquisition proceedings within one year from the date of judgement (23–01–2007) against the case filed by Kerala Development Action Council, Guruvayur. Joint inspection with State Revenue Authorities were conducted, but local public disturbed the inspection. The matter has been brought to the notice of Chief Secretary vide letter dated 11–09–2007 and requested to sortout the issues very early. Further, Hon'ble Chief Minister level meeting was held during April 08. But the issues could not be solved. Hon'ble CM has requested to advise to feasibility of two alternate alignment (1) Guruvayur–Tirunnavaya and (2) Guruvayur–Tanur parallel to canolly canal. The feasibility has been studied and advised to the State Govt. vide letter No.W.337/ CN/TVC/GUV-KTU (TA) dated 18–07–2008. The State Govt. has now chosen the alignment from Guruvayur to Tirunnavaya (35 kms). FLS tender will be called accordingly to prepare detailed plan and estimate.
		2. Karur-Salem—New line (85 kms.).	613.11	0.6	Estimate for Rs.229.88 crores sanctioned by Board. Contracts awarded for earth work and minor bridges and works are in progress. Out of 343.78 Hectares of land in 58 villages, 333.845 Hectares of land has been taken possession. Works are in various stages of progress. There are two ROB's on NH on this stretch for which GADs are under process for approval of concerned. ROB works commenced. All pending court cases regarding land acquisition were disposed and Railways have taken physical possession of required land. Work in progress.

Sl. No.	Name of Work	Cost Rs. in lakhs	% of over all progress as on 2008-09	Remarks
New Lines Under Construction—Contd.				
3.	Angamali-Sabarimala new line (146 kms.)	550.00	3%	<p>Railway Board's procedural approval was obtained. Forest department is not allowing Railways to pass through Tiger Reserve Forest. So Board has decided to terminate the new line at Azutha vide Board's letter No.W.93/W1/Survey/SR II dated 7-1-2004. Final location survey was completed upto Azutha. Working plan and section approved. Railway Board has sanctioned the part detailed estimate for Rs.517.70 crores (for major heads) vide Board's letter No. 93/W1/Survey/SR/11 dated 17-5-2006. Total land required is 516.42 Ha. Out of this, requisition is given for 470.86 Ha. 6.306 Ha. land hand over till date.</p> <p>4 (1) Notification issued for 96.96 Ha. L.A. units started at three places - Perumbavoor for Ernakulam District. Pala for Kottayam District and Thodupuzha for Iddikki District. L.A. works are in progress. Boundary stone fixing in progress. Valuation of structures for two villages (Angamali and Nedumbessary) handed over to District Collector/Ernakulam. Land handed over for both approaches for Major bridges across Periyar.</p> <p>Tender opened for one major bridge (Periyar) and discharged. Retender to be called for. Agency fixed for Reach - I (5 km) for earthwork & minor bridges is in progress. 65000 cum of earthwork completed out of 90000 cum and 10 bridges completed and 2 minor bridges are in progress out of 15 Nos. A meeting was convened by Hon'ble Ministers of Govt. of Kerala (Shri M. Vijayakumar, Minister of Law, Parliamentary Affairs & Railways and Shri K.P. Rajendran, Minister of Revenue) on 4-1-2008 to sort out the issues of the project. During the meeting, Hon'ble Ministers informed that the project will be included in the "Fast Track Project" to speed up land acquisition and decision in this regard will be taken shortly and advised to the Minister of Railways. The project has been included in the "Fast Track Project" by Govt. of Kerala to speed up land acquisition work.</p> <p>Hon'ble Chief Minister of Kerala had called for a meeting 20-1-09 to decide the final alignment. Local MPs, MLAs Public and Railways took part in the meeting. After detailed discussion the Hon'ble CM has decided that Railways will be requested to study an alternative alignment between Pala to Erumeli as the local MPs, MLAs Public have requested change in the alignment between Pala and Erumeli. They have taken objection to the Railways already finalised alignment which connects Pala to Pondunnam (via) Errattupetta.</p>

Sl. No.	Name of Work	Cost Rs. in lakhs	% of over all progress as on 2008-09	Remarks
New Lines Under Construction—Concl'd.				
4.	Tindivanam - Gingee - Tiruvannamalai (70 kms.) - New line.	275.56	0%	New work included in Supp.Demand in the year 2006-07 at a cost of Rs.125 crores. Final location survey completed. Detailed estimate sanctioned by Railway Board for Rs.227.40 crores vide letter No.2008/W1/NL/SR/TT dated 21-07-2008. Tender for construction of 4 major and important bridges, for foundations, substructures and superstructures for Tondiyar, Sangaraparani River, Varaha Nadi and Turinjalar river in Tindivanam-Tiruvannamalai (via) Gingee section, contract awarded on 16-2-09.
5.	Tindivanam - Nagari (179.20 kms.) - New line.	717.17	1.0%	<p>New work included in Supp.Demand in the year 2006-07 at a cost of Rs.456 crores. Detailed estimate sanctioned by Railway Board for Rs.582.83 crores for the entire project vide Railway Board's letter No.2007/W1/NL/SR/TN dated 04-07-2008. Meanwhile mega tender for construction of major bridge (1 km long) across Palar river opened on 16-11-2007 and contract awarded on 4-2-2008. 136 Nos. of piles out of 219 piles, 12 Nos of pile cap out of 38 Nos. and one pile load test have been completed and further works are in progress.</p> <p>Tenders for earthwork, minor bridges, construction of ROB/RUBs in Walajah Road to Ranipet contract awarded on 13-2-09 and Ranipet to Arcot section contract awarded on 30-01-09 and the agencies are yet to start the work.</p> <p>Tender for Cheyyar River and Kalavai Maduvu Nadhi in Vandavasi-Cheyyar-Arni section opened on 24-9-2008 and the same was discharged. Retender has been called and opened on 9-1-2009 and it is under finalisation. Tender for construction of 4 major bridges between Walajah Road and Nagari has been called and opened on 19.02.2009 and is under finalisation.</p>
6.	Attipattu-Puttur (88.3 kms.)	446.87	0%	New work included in Pink Book in the year 2008-09 at a cost of Rs.446.87 crores. Estimate for FLS sanctioned by GM. Meanwhile tender for final location survey also floated and opened on 16-04-2008 and awarded during June 2008, duly taking approval of GM for entrusting the FLS work to outside agency. Final location survey work 75% completed. Physical execution of the project will be done by RVNL.
7.	Erode-Palani (91.05 kms.)	288.87	0%	New work included in Pink Book in the year 2008-09 at a cost of Rs. 288.87 crores. Part estimate sanctioned.Tender for Final location survey awarded. Survey work is in progress.
8.	Chennai-Cuddalore (via) Mahabalipuram (179.28 kms.)	523.52	0%	New work included in Pink Book in the year 2008-09 at a cost of Rs.523.52 crores. Feasibility study for connecting Guindy from Sholinganallur is being conducted.

Sl. No.	Name of Work	Cost Rs. in lakhs	Remarks
3. Surveys			
(a) Surveys sanctioned during the year 2008-09			
1.	Preliminary Engineering-cum-traffic survey for Salem - Omalur- Mettur Dam (Doubling).	8.06	Agency fixed. Work order issued and survey is in progress.
2.	Reconnaissance Engineering-cum-Traffic survey for a new BG line from Rameswaram - Tuticorin- Kanyakumari.	36.00	Agency fixed. Work order issued and survey is in progress.
3.	Reconnaissance Engineering-cum-Traffic survey for a new BG line from Chidambaram - Attur via Ariyalur, Perambalur.	21.00	Field work completed.
4.	Reconnaissance Engineering-cum-Traffic survey for a new BG line from Karaikudi - Tuticorin via Ramanathapuram.	33.00	Agency fixed. Work order issued and survey is in progress.
5.	Reconnaissance Engineering-cum-Traffic survey for a new BG line from Madurai - Tuticorin via Arupukottai.	15.90	Engineering Estimate vetted by finance IRR report to be sent to Finance.
6.	Reconnaissance Engineering-cum-Traffic survey for a new BG line from Angadipuram- Kozhikode.	9.00	Work order issued on 17-10-2008. Field survey's completed.
7.	Reconnaissance Engineering-cum-Traffic survey for a new BG line from Kanjangad- Panathur.	9.75	Work order issued on 17-10-2008. Field survey's completed.
b) Surveys in progress during the year 2008-09			
1.	Survey for doubling of Trivandrum- Kanniyakumari.	0.50	Contract for Engineering portion terminated because of poor progress. Risk tender opened and awarded. Field survey completed.
c) Surveys completed during the year 2008-09			
1.	Survey for Gauge conversion of Thanjavur- Tiruchchirappalli MG line.	9,673.00	Report submitted to Board on 7-1-2005. Railway Board shelved the project and project and decided dismantling of the MG line.
2.	Updating survey for Dindigul-Pollachi-Palghat.	34,317.00	Project sanctioned in 2006-07
3.	Survey for a new BG line from Tindivanam to Nagari via Vandavasi, Cheyyar, Arani, Arcot, Ranipet, Walaljapet, Sholingur, R.K. Pet, Podatur and Pallipattu.	45,578.00	Project sanctioned in 2006-07.
4.	New BG line from Attipattu to Tiruvallur with a link line to Puttur.	63,565.00	Report submitted to Railway Board on 9-3-2004. Work appeared; in PWP 2005-06 as a single line between Attippattu and Puttur for a length of 88.237 kms. Cost Rs. 272.28 crores. Updated report sent to Board on 30-08-2006. Single line report from Attipattu to Puttur only for Goods traffic sent to Board on 15-11-2006. Project sanctioned in 2008-09.
5.	Survey for a new BG line from Chennai- Sriperumbudur via Poonamallee.	24,154.00	Report submitted to Board on 31-03-2005. Railway Board shelved the project.
6.	PETS for a new BG line between Tindivanam- Cuddalore via Pondicherry.	15,726.00	Report submitted to Board on 31-12-2004. Clarifications sought by Board have been furnished. Part of project from PDY-CUPJ sanctioned in 2008-09.

Sl. No.	Name of Work	Cost Rs. in lakhs	Remarks
Surveys—Contd.			
7.	RETS for a new BG line from Thanjavur to Chennai Egmore via Ariyallur.	96,819.00	Report submitted to Board on 31-3-2005. Updated report submitted to Railway Board on 09-3-2007.
8.	Reconnaissance Engineering-cum-Traffic survey for a new BG line from Nilambur Road to Nanjangud Town.	338,457.00	Report submitted to Railway Board on 23-2-2004. Railway Board ordered for updating, report submitted to Railway Board on 23-1-2008. Clarification sought by Railway Board vide letter dated 9-6-2008. Report submitted to Railway Board on 20-2-2009.
9.	Reconnaissance Engineering-cum-Traffic survey from Tindivanam to Jolarpettai via Tiruvannamalai and Gingee.	41,657.00	Report submitted to Railway Board on 15-4-2005. Part estimate from Tindivanam to Tiruvannamalai via Gingee sent to Board on 01-2-2006. The updating survey estimate for full section sent to Board on 23-5-2006. Part of project from Tindivanam to Tiruvannamalai is sanctioned in 2006-07. Updated report of RETS submitted to Railway Board.
10.	Updating survey for balance doubling Ernakulam – Kayankulam via Kottayam and Alleppay.	242,413.00	Report submitted to Railway Board on 13-05-2005. All sections in Kayankulam – Ernakulam via Kottayam route sanctioned and Kayankulam – Cheppad – Haripad – Ambalapuzha Section via Alleppey route also sanctioned.
11.	Updating survey for Jolarpettai – Hosur via Krishnagiri with connectivity from Krishnagiri to Dharmapuri	44,706.00	Report submitted Railway Board on 5-8-2005. Updating report sent to Board on 18-10-2006. Railway Board shelved the project. Railway Board ordered for updating from Tirupattur to Hosur. Report submitted to Railway Board on 27-5-2008.
12.	Reconnaissance Engineering-cum-Traffic survey from Tirur to Angadipuram	23,326.00	Report submitted to Railway Board on 25-08-2005. Updated report submitted to Railway Board on 10-5-2007. Railway Board shelved at present vide letter No. 2005/WI/NL/SR/TA dated 21-5-2008.
13.	Updating survey for Erumeli - Punalur - Trivandrum.	99,912.00	Report submitted to Board on 31-10-2005. Updated report submitted to Railway Board on 7-12-2007. Railway Board shelved at present vide letter No.99 W-1/NL/S/5 dated 4-4-08.
14.	Updating final location survey for a new BG line from Punalur – Erumeli.	..	....
15.	Updating survey for Gauge conversion from Madurai to Bodinayakkanur.	16,441.00	Report submitted to Board on 31-10-2005. Updated report submitted to Railway Board on 11-5-07. Project sanctioned in 2008-09.
16.	New BG line between Madurai-Kottayam.	119,244.00	Report submitted to Board on 28-2-2006. Updated report submitted to Railway Board on 6-12-2007.
17.	Updating survey for a new line from Chennai to Cuddalore via Mahabalipuram and Pondicherry.	52,352.00	Report submitted to Board on 30-4-2006. Project sanctioned in 2008-09.
18.	Reconnaissance Engineering-cum-Traffic Survey for Gauge conversion of Mayiladuthurai-Thiruvapur – Tiruturaipundi – Karaikkudi and Tiruturaipundi – Agasthiyampalli.	44,170.00	Project sanctioned in 2007-08.

Sl. No.	Name of Work	Cost Rs. in lakhs	Remarks
Surveys—Contd.			
19.	Survey for doubling of Chengalpattu-Tuticorin.	82,240.00	Report submitted to Railway Board on 06-06-2006. Updated report with electrification sent to Board on 23-08-06 combined report also submitted to Board on 10-02-2007. Part of project from Chengalpattu to Villupuram sanctioned in 2006-07 and Dindigul - Madurai section also sanctioned and VM-TPJ-DG part updated report submitted to Railway Board on 18-05-07. Clarification sought by Railway Board and updated recast financial appraisal submitted to Railway Board on 12-01-2008. VM-DG sanctioned in 2008-09.
20.	Reconnaissance Engineering-cum-Traffic Survey for a new BG line from Satyamangalam to Mettur.	32,605.00	Report submitted to Board on 26-09-2006. Railway Board shelved the project vide letter No. 2006/W1/NL/SR/SM dated 14-02-2007.
21.	Reconnaissance Engineering-cum-Traffic Survey for a new BG line from Kollengode and Trichur.	30,121.00	Report submitted to Board on 30-09-2006. Railway Board shelved the project vide letter No. 2006/W1/NL/SR/KT dated 18-10-2007.
22.	Reconnaissance Engineering-cum-Traffic Survey for a new BG line from Erode to Palani via Dharmapuram.	28,887.00	Project sanctioned in 2007-08.
23.	Reconnaissance Engineering-cum-Traffic Survey for a new BG line from Nagappattinam to Tiruturaipundi.	9,124.00	Project sanctioned in 2007-08.
24.	Reconnaissance Engineering-cum-Traffic Survey for a new BG line for Mayiladuturai-Tirukadeyur - Tarangambadi - Tirunallar-Karaikkal.	11,458.00	Report submitted to Board on 31-1-2007. Clarification sought by Railway Board dated 22-2-2008. Remarks submitted on 10-3-2008.
25.	Reconnaissance Engineering-cum-Traffic Survey for a new BG line from Erode to Sathyamangalam.	42,992.00	Report submitted to Board on 12-3-07. Clarification sought by Railway Board. Updated report submitted to Railway Board on 24-1-2008. Clarification sought by Board dated 18-2-2008 and 08-7-2008. Reply submitted on 30, April 2008 & 28-7-2008. Railway Board shelved at present vide letter dated 22-5-2008. Reply submitted on 19-6-2008. dated 22-2-2008. Remarks submitted on 10-3-2008.
26.	Updating survey for a new line from Kayankulam to Kottarakkara via Adoor, Pattanapuram & Auvneewaram.	27,622.00	Engineering field survey completed. Report sent to Railway Board on 30-3-2007. Clarifications sought by Railway Board vide letter dated 22-5-2008. Reply submitted on 19-6-2008.
27.	Reconnaissance Engineering-cum-Traffic Survey for a new BG line from Sabarimala to Chengannur.	158,323.00	RETS sent to Railway Board on 28-9-2007. Clarification sought for by Railway Board vide letter dated 15-4-2008 & 08-7-2008. Reply submitted on 18-6-2008. Updated report submitted on 5-12-08.
28.	Reconnaissance Engineering-cum-Traffic Survey for a new BG line from Morappur to Dharamapuri.	14,642.00	Survey report submitted to Railway Board on 11-2-2008 and clarification sought for by Railway Board dated 20-2-2008. Remarks submitted on 10-3-2008. Railway Board asked for recast vide letter dated 8-5-2008. Updated report submitted on Railway Board on 27-6-2008. Clarification sought by Railway Board on 29-7-2008. Reply submitted on 31-7-2008.

Sl. No.	Name of Work	Cost Rs. in lakhs	Remarks
Surveys—Concl'd.			
29.	Reconnaissance Engineering-cum-Traffic Survey for a new BG line from Needmangalam to Pattukottai.	29,379.00	Survey completed. Report submitted to Railway Board on 15-2-2008 and clarification sought for by Railway Board dated 20-2-2008. Remarks submitted on 10-3-2008. Railway Board asked for recast vide letter dated 29-4-2008. Updated report submitted to Railway Board on 31-7-2008.
30.	Updating survey for a new line between Dindigul - Kumuli (lower camp) via Bodinayakanur.	50,490.00	Survey completed. Report submitted to Railway Board on 31-3-2008.
31.	Reconnaissance Engineering-cum-Traffic Survey for a new BG line from Madurai to Karaikkudi.	38,233.00	Completed survey report submitted to Railway Board on 29-7-2008.
32.	Updating survey for a new line between Thalasserry and Mysore.	2,94,557.00	Completed survey report submitted to Railway Board on 24-7-2008. Railway Board shelved at present.
33.	Reconnaissance Engineering-cum-Traffic Survey for a new BG line from Thanjavur - Ariyalur.	27,941.00	Completed survey report submitted to Railway Board on 9-7-2008.
34.	Reconnaissance Engineering-cum-Traffic Survey - (a) for 5th and 6th line on Chennai - Villivakkam and (b) New line for Villivakkam - Katpadi sections.	1,35,299.00	Survey conducted between Avadi and Katpadi via Sriperumbudur, Kanchipuram, Ranipettai and a link line from Guduvancheri to Sriperumbudur via Oragadam completed & survey report submitted to Railway Board on 28-2-2009.

4. Lines Closed During the year 2008-2009

Sl. No.	Division	Station & Name of Work	Cost in Lakhs
1	MAS	Nil	
2	Salem	Nil	
3	Palghat	PGTN-POY—Metre gauge section closed due to gauge conversion by construction branch.	
4	Trivandrum	Nil	
5	Tiruchchirappalli	Nil	
6	Madurai	Manamadurai - Virudhunagar (67 kms.) Dindigul - Pollachi (122 kms.) Tirunelveli - Tenkasi (72kms.)	
7	CN/MS	Nil	
8	MTP	Nil	

5. Progress of Project Works upto 31.3.2009

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
1.0 New Lines							
1.	Tanur (Kuttipuram) - Guruvayur New Line (51 kms).	13771.00	1995-96	Not Fixed	869.00	0%	The Hon'ble High Court of Kerala has directed the State Authorities to completed the land acquisition proceedings within one year from the date of judgement (23/01/2007) against the case filed by Kerala Development Action Council, Guruvayur. Joint inspection with State Revenue Authorities were conducted, but local public distrubed the inspection. The matter has been brought to the notice of Chief Secretery vide letter dated 11/09/2007 and requested to sortout the issues very early. Further, Hon'ble Chief Minister level meeting was held during April '08. But the issue could not be solved. Hon'ble CM has requested to advise to feasibility of two alternate alignment (1) Guruvayur- Tirunnavaya and (2) Guruvayur-Tanur parallel to canolly canal. The feasibility has been studied and advised to the State Govt. vide letter No.W.337/ CN/TVC/GUV-KTU(TA) dated 18/07/2008. The State Govt. has now chosen the alignment from Guruvayur to Tirunnavaya (35 Kms). FLS tender will be called accordingly to prepare detailed plan and estimate.
2.	Karur - Salem New Line (85 kms)	61311.00	1996-97	Not Fixed	23,084.00	60%	Estimate for Rs.229.88 crores sanctioned by Board. Contracts awarded for Earth work and minor bridges and works are in progress. Out of 343.78 Hectares of land in 58 villages, 333.845 Hectares of land has been taken possession. Works are in various stages of progress. There are two ROB's on NH on this stretch for which GADs are under process for approval of concerned. ROB works commenced. All pending court cases regarding land acquisition were disposed and Railways have taken physical possession of required land. Work in progress.
3.	Angamali-Sabarimala New Line (146 Kms)	55,000	1997 - 1998	Not fixed	4504.00	3%	Railway Board's procedural approval was obtained. Forest department is not allowing Railways to pass through Tiger Reserve Forest. So Board has decided to terminate the new line at Azutha vide Board's letter No.W.93/W1/

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in year	Completed in year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
New Lines—Contd.							<p>Survey/SR:II dated 07/01/2004. Final location survey was completed upto Azhutha. Working plan and section approved. Railway Board has sanctioned the part detailed estimate for Rs.517.70 crores (for major heads) vide Board's letter No.93/W1/Survey/SR/11 dated 17/05/2006.</p> <p>Total land required is 516.42 Ha. Out of this, requisition is given for 470.86Ha. 6.306 Ha land hand over till date. 4(1) notification issued for 96.96 Ha. L.A units started at three places-Perumbavoor for Ernakulam District, Pala for Kottayam District and Thodupuzha for Iddikki District. L.A works are in progress. Boundary stone fixing in progress. Valuation of structures for two villages (Angamali and Nedumbessary) handed over to District Collector/Ernakulam. Land handed over for both approaches for Major Bridge across Periyar.</p> <p>Tender opened for one major bridge (Periyar) and discharged. Retender to be called for. Agency fixed for Reach - I (5km) for earthwork & minor bridges is in progress. 65000 cum of earthwork completed out of 90000 cum and 10 bridges completed and 2 minor bridges are in progress out of 15 Nos. A meeting was convened by Hon'ble Ministers of Govt. of Kerala (Shri. M. Vijayakumar, Minister for Law, Parliamentary Affairs & Railways and Shri K.P. Rajendran, Minister for Revenue) on 04/01/2008 to sort out the issues of the project. During the meeting, Hon'ble Ministers informed that the project will be included in the "Fast Track Project" to speed up land acquisition and decision in this regard will be taken shortly and advised to the Minister of Railways. The project has been included in the "Fast Track Project" by Govt of Kerala to speed up land acquisition work.</p> <p>Hon'ble Chief Minister of Kerala had called for a meeting 20/01/09 to decide the final alignment. Local MPs, MLAs Public and Railways took part in the meeting. After detailed discussion the Hon'ble CM has decided that</p>

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
New Lines—Contd.							
							Railways will be requested to study an alternative alignment between Pala to Erumeli as the local MPs, MLAs and Public have requested change in the alignment between Pala and Erumeli. They have taken objection to the Railways already finalised alignment which connects Pala to Ponkunnam (via) Errattupetta.
4.	Tindivanam-Gingee-Tiruvannamalai (70 km) - New line.	27,556.00	Supp.D.No 2006-07	Not fixed	419.00	0%	New work included in Supp. Demand in the year 2006-07 at a cost of Rs.125 crores. Final Location Survey completed. Detailed estimate sanctioned by Railway Board for Rs. 227.40 crores vide letter No. 2008/W1/NL/SR/TT dated 21/07/2008.
							Tender for construction of 4 major and important bridges, for foundations, substructures and superstructures for Tondiyar, Sangaraparani River, Varaha Nadi & Turinjalar river in Tindivanam-Tiruvannamalai (via) Gingee section, contract awarded on 16/2/09.
5.	Tindivanam - Nagari (179.20 km) - New line.	71,717.00	Supp.D.No. 2006-07	Not fixed	864.00	1%	New work included in Supp. Demand in the year 2006-07 at a cost of Rs.456 crores. Detailed estimate sanctioned by Railway Board for Rs.582.83 crores for the entire project vide Railway Board vide letter No. 2007/W1/NL/SR/TN dated 04/07/2008. Meanwhile mega tender for construction of major bridge (1 km long) across PALAR river opened on 16/11/2007 and contract awarded on 04/02/2008. 136 Nos of piles out of 219 piles, 12 Nos. of pile cap out of 38 and 16 Nos out of 76 Nos of trustle coloumn, 1 No. trustle beam out of 38 Nos and one pile load test have been completed and further works are in progress.
							Tenders for earthwork, minor bridges, construction of ROB/ RUBs in Walajah Road to Ranipet contract awarded on 13/2/09 and Ranipet to Arcot section contract awarded on 30/01/09 and the agencies are yet to start the work.

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in year	Completed in year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
New Lines—Concl'd.							Tender for Cheyyar River & Kalavai Maduvu Nadhi in Vandavasi- Cheyyar - Arni section opened on 24/9/2008 and the same was discharged. Retender has been called and opened on 09/1/2009 and it is under finalisation: Tender for construction of 4 major bridges between Walajah Road and Nagari has been called and opened on 19/2/2009 and is under finalisation.
6.	Attipattu - Puttur (88.3 kms)	44,687.00	2008-09	Not fixed	31.00	0%	New work included in Pink Book in the year 2008-09 at a cost of Rs. 446.87 crores. Estimate for FLS sanctioned by GM. Meanwhile tender for final location survey also floated and opened on 16/4/2008 and awarded during June 2008., duly taking approval of GM for entrusting the FLS work to outside Agency. Final Location Survey work 75% completed. Physical execution of the project will be done by RVNL.
7.	Erode - Palani (91.05 kms)	28,887.00	2008-09	Not fixed	0.00	0%	New work included in Pink Book in the year 2008-09 at a cost of Rs.288.87 crores. Part estimate sanctioned. Tender for Final Location Survey awarded. Survey work is in progress.
8.	Chennai - Cuddalore (via) Mahabalipuram (179.28 kms)	52,352.00	2008-09	Not fixed	1.00	0%	New work included in Pink Book in the year 2008-09 at a cost of Rs.523.52 crores. Feasibility study for connecting Guindy from Sholinganallur is being conducted.

2.0 Gauge Conversion

1.	Tiruchchirappalli-Thanjavur-Nagore-Karaikkal (157Kms) with extension Nagappattinam-Velankanni-Tiruthuraiipundi via Tirukkuveli (43 Kms.).	55,000.00	1995 - 96	TVR-NCR 2007-08 NGT- Velankanni 2009-10	36506.00	81	Status of the estimate: Tiruchchirappalli - Thanjavur - Nagore sanctioned by Board for Rs.109.05 crores on 22/11/1995. Material Modification estimate for new line between Nagappattinam and Vailankanni (10 kms) was sanctioned by Railway Board for Rs.23.69 crores on 30/5/2002. Material Modification estimate for new line between Nagore - Karaikkal (11 kms) was sanctioned by Railway Board for Rs.33.78 crores on 20/11/2002. Estimate for additional facilities at Nagore and Nagappattinam for Rs.4.17 crores sanctioned by Board on 18/9/2000. Railway
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Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
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Gauge Conversion—Contd.

Board have included Nagappattinam - Vailankanni - Tiruthurai (via) Thirukuvalai new BG line as material modification to this project and the total cost of the project is Rs.391.12 crores. Railway Board have sanctioned the detailed estimate for Nagappattinam - Tiruthurai new line as material modification to TPJ - TJ - NCE - Karaikkal GC at a cost of Rs.126.14 crores vide Board letter No.2007/W1/NL/SR/NT/1 dated 22/07/2008. Proposal for land acquisition has been submitted to State Government.

The section between Thiruchchirappalli and Thanjavur new parallel BG (50kms) was opened for Passenger traffic on 01/01/1998.

The section between Thanjavur and Tiruvarur (55kms) was opened for Passenger traffic on 12/01/2007. CRS inspection for the section between Tiruvarur and Nagore (30.37 Kms) completed and opened for passenger traffic on 27/02/2009.

Land acquisition is in progress for Nagappattinam - Karaikkal new line work. An amount of Rs.118.20 lakhs has been deposited to Govt. of Pondichery towards cost of land for Nagore - Karaikkal section. Out of 39.09 Ha. of land, 34.36 Ha land has been handedover. CM/ Pondichery has written a letter informing their inability to share 50% of the cost and requested the Railway to execute the project with Railway funds. Contract for all the work awarded and work started. Station building work at Vailankanni completed except finishing work.

The section between Nagappattinam-Velankanni (10.3 Kms) is targeted by 2009-10 for which works are in progress.

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in year	Completed in year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
2.	Quilon - Tirunelveli - Tiruchendur & Tenkasi - Virudhunagar - Gauge Conversion (357 Kms)	90,000.00	1997-1998	QLN-Punalur 2005-06 Revised : 2009-10 TEN-TCN 2007-08	47,239.00	73%	<p>Status of the estimate: Part estimate for Gauge Conversion of Virudhunagar - Tenkasi, Tenkasi-Tirunelveli-Tiruchendur sections was sanctioned by Railway Board for Rs.327.61 crores on 20/02/2001. Gauge Converted section between Virudhunagar and Rajapalayam (52 kms) was opened for passenger traffic on 01/06/2003. Gauge Converted section between Rajapalayam -Tenkasi (69 Km) was opened for passenger traffic on 20/09/2004. The section between Tenkasi-Sengottai (8 Kms) opened for passenger traffic on 07/02/2008. The section between Tirunelveli and Tiruchendur(61.21 kms) was opened for passenger traffic on 27/09/2008.</p> <p>Part estimate for Quilon - Punalur section was sanctioned by Board for Rs.103.24 crores on 22/07/2005. All the works are nearing completion. Only pending issue is that the State Govt. has to complete approach earthwork for ROB No.2203 so that new ROB can be commissioned and existing infringing ROB can be dismantled. This is expected to be completed by 30/04/2009. CRS papers will be submitted by 15/05/2009 and inspection will be organised by the end of May, 2009. Railway Board have sanctioned the estimate for SCT - PUU section for Rs.357.70 crores vide Railway Board letter No.97/W-1/ GL/S/5 dated 24/11/08. Tender schedule for Mega Tender is under preparation.</p> <p>Works are also in progress between Tirunelveli and Tenkasi.</p>
3.	Madurai - Rameswaram - Gauge Conversion (162 kms).	33,327.00	1997-1998	MDU-RMM section Completed	32,700.00	99	<p>Status of the estimate: Part detailed estimate for Madurai-Mandapam section was sanctioned by Railway Board for Rs. 173.68 crores on 07/02/2001. Part detailed estimate for GC work between Mandapam and Rameswaram was sanctioned by Railway Board for Rs.73.29 crores 17/03/2006.</p> <p>The section between Madurai - Manamadurai was opened for passenger traffic on 30/04/2005</p>

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
4.	Thanjavur - Villupuram Gauge Conversion (192 Kms) (RVNL Project).	42,600.00	1998-1999	Kumbakonam- Mayiladuturai: April - 2006	12,185.00	45	<p>The section between Manamadurai and Rameswaram (114 kms) opened for passenger traffic on 12/08/2007.</p> <p>Status of the estimate: Part detailed estimate for Thanjavur - Kumbakonam section was sanctioned by Railway Board for Rs. 73.05 Crores on 11/03/2003.</p> <p>Part detailed estimate for Kumbakonam - Villupuram Section was sanctioned by RVNL for Rs. 283.83 crores on 22/11/2004.</p> <p>Thanjavur - Kumbakonam Section (39 kms) was opened for passenger traffic on 02/05/2004</p> <p>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.</p> <p>GC work between Kumbakonam and Mayiladuthurai (31 kms) completed. After CRS inspection in 18 & 19th April 2006, the newly converted section from Mayiladuthurai to Kumbakonam has been inaugurated and opened for passenger services on 17/06/2006 and handed over to Division on 27/2/2008.</p> <p>Gauge conversion of Villupuram - Mayiladuturai (122 kms) section is being executed by RVNL.</p>
5.	Cuddalore - Salem - Gauge Conversion (191 kms) (RVNL Project).	33,717.00	1999 - 2000	VRI-Attur Original 2005-06 Revised 2006-07	23,720.00	93	<p>Status of the estimate: Part detailed estimate for Cuddalore - Vriddhachalam Section was sanctioned by Railway Board for Rs. 74.01 crores on 30/10/2001. Part detailed estimate for Vriddhachalam-Salem was sanctioned by Railway Board for Rs.187.09 crores on 06/01/2004. Material modification estimate for providing new BG line between Chinnasalem and Kallakurichi was sanctioned by Railway Board for Rs.37.13 crores on 19/01/2006. The State Government has agreed to share 50% of cost vide letter (MS) No.51 dated 21/02 2007. FLS is in progress and is nearing completion.</p> <p>Vriddhachalam - Vadalur (27 km) was opened for traffic on 06/01/2003.</p>

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in year	Completed in year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
							Vadalur - Cuddalore Port Junction (30 Km) was opened for Passenger traffic on 29-12-2003.
							Vadalur - Cuddalore Port Junction (30 Km) was opened for Passenger traffic on 29-12-2003.
							The section between Salem and Attur is 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 and Salem section (134 km) is opened for passenger traffic on 18/11/2007.
6.	Tiruchchirappalli - Manamadurai - Gauge Conversion (150 Kms.)	34,748.00	2000 - 2001	KKDI - MNM 2007-08	36,506.00	100	Status of the estimate: Detailed estimate sanctioned for Rs.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 at a cost of Rs.14.41 crores was sanctioned by Board vide letter No. 2002/W1/GC/SR/1 dated 22/12/2005. The section between Tiruchchirappalli and Pudukottai (53 kms) was opened for passenger traffic on 5/01/2007 and the section between Pudukottai and Karaikkudi section also completed and opened for passenger traffic on 19/05/2007. Mega block for KKDI - MNM Section taken with effect from 15/04/2007 and the works are completed. CRS has inspected the section on 16, 17 & 18/06/2008 and authorised for opening of the section and the section was inaugurated on 02/07/2008.
7.	Villupuram - Katpadi - Gauge Conversion (161 Kms)	33,025.00	2000 - 2001	VLR - TNM 2007-08 (Revised 2008-09) TNM- VM 2009-10	36,455.00	40	Detailed estimate has been sanctioned vide Board's letter No. 2002/W1/GC/S/2 dated 21.6.04 for Rs. 231.72 Crores. An estimate amounting to Rs.3.97 crores for Electrification of Katpadi - Vellore Contonement section (10kms) is sanctioned by Railway Board as material modification to the work of GC of Tirupathi-Pakkala - Katpadi Section vide

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
							letter No.92/W-2/GC/SC/20Vol - II dated 19/01/2006 and the works are in progress between Vellore - Tiruvannamalai - Villupuram Sections. Work completed between Katpadi-Vellore (10 kms) section and opened for passenger traffic on 10/11/2008.
8.	Manamadurai - Virudhunagar - Gauge Conversion (66.55 Kms)	14,840.00	2006-07	Not fixed	3,725.00	12	Work included in the budget 2006-07 at a cost of Rs.97.27 crores. Estimate sanctioned for Rs.138.03 crores vide Railway Board No.2000/W-1/GC/S/1 dated 31/12/2007. Two mega contracts including Civil, S&T and Electrical items awarded in March 2008 and work in progress.
9.	Dindigul - Pollachi - Palaghat - Pollachi & Coimbatore - Gauge Conversion (224.88 Kms)	55,775.00	2006-07	PTJ - CBE: 2009-10	5,120.00	7	Work included in the budget 2006-07 at a cost of Rs.343.17 crores. Part detailed estimate for the section between Podanur and Coimbatore sanctioned by Railway Board for Rs.28.72 crores vide Railway Board letter No. 97/W1/LCT/S/3 dated 17/10/2007. Detailed estimate for the remaining portion for Rs. 529.03 crores also sanctioned vide Railway Board letter No. 97/W1/LCT/S/3/1 dated 26/02/2008, (ie) Dindigul - Pollachi, Pollachi - Palghat & Pollachi - Podanur Sections. Thus, the total cost of the whole project is Rs.557.75 crores. Contract awarded for Podanur - Coimbatore (6 kms) and the work have commenced.
							Tenders awarded for certain long lead work of major bridges and earthwork between Dindigul, Palani, Pollachi and Palghat works are in progress. Ballast collection is also progressing. RRI cabin work at DG is to progress alongwith S&T building at other stations. Four tenders for remaining works have been opened and are under finalisation.
10.	Mayiladuthurai -Thiruvavarur- Karaikkudi and Thiruthuraipoondi - Agasthiampalli (224 kms)	71,115.00	2007-08	Not fixed	1,359.00	0	Work included in the budget 2007-08 at a cost of Rs.404.19 crores. Part detailed estimate for Mayiladuthurai-Thiruvavarur was sanctioned by Railway Board on 08/05/2008 for Rs. 136.77 crores. Another part detailed estimate for Thiruvavarur - Thiruthuraipoondi - Karaikkudi and Thiruthuraipoondi - Agasthiampalli for Rs.574.38 crores sent to Rly. Board vide this

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in year	Completed in year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Contd.							
							office letter No.W.193/XII/24/CN dt.24/09/2008 for sanction. Now, the total cost of the whole project is Rs.711.15 crores. Final location survey for balance portion i.e., Tiruvarur-Karaikkudi section in progress. Mega tenders for earthwork, bridges, station building and platform work in Mayiladuturai - Tiruvarur section have been called and opened in September 2008. Technical bids finalised. Price bid for Reach I & II for earthwork, major and minor bridges has been awarded in March 2009.
11.	Madurai - Bodinayakkanur (90.41 kms)	16,441.00	2008-09	Not fixed	0.00	0	New work included in Pink Book in the year 2008-09 at a cost of Rs.164.41 crores. Detailed estimate for Rs.200.90 crores submitted to Railway Board vide this office letter No.W.193/XXII/25/CN dated 25/07/2008. In the latest reference, Board has advised for deletion for provision of Land acquisition and process for long lead items of major bridges, etc., and reply sent to Board on 09/02/2009. Railway Board have sanctioned part estimate for Rs.15.00 crores to preliminary expenses and major bridges vide Railway Board letter No. 2005/W1/NL/SR/1 dated 24/02/2009. Tender for FLS under process.
12.	Chennai Beach - Tambaram - Chengalpattu Suburban Gauge Conversion (116 kms.) (Under MTP Plan Head).	45,524.00	1998 - 1999	MS - TBM (50kms) Completed	38,728.00	88	This Gauge Conversion work is executed on cost sharing basis and 50% of the cost is shared by Government of Tamil Nadu. This project is executed in stages as below. MG main line between Chennai Egmore and Tambaram is converted and commissioned for BG passenger traffic on 03-03-2001. Two MG lines from Chennai Beach to Chennai Egmore have been converted into Broad Gauge and opened for passenger traffic in February'2003. The gauge Conversion of B line between Tambaram-Chengalpattu (30 Km) has been completed and opened for traffic in Nov. 03. Gauge Conversion works between Chennai Egmore and Tambaram have been completed and open for traffic on 01/11/2004.

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
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Gauge Conversion—Contd.

1. Provision of 6 ROBs and 9 (limited) RUBs in lieu of existing 12 level crossings is also part of the project so as to eliminate all level crossings in the Chennai Beach - Tambaram Section on which works are in progress. Completed & commissioned including approaches—4 Nos. Railway portion of ROBs completed—3 Nos. ROB work in progress by Railways—6 Nos. Railway work yet to be started—3 Nos. (for 1 RUB GAD yet to be approved). Approach work started by State Govt.—6 Nos.

2. Cost of the Gauge Conversion is about Rs.370 crores and cost of the 12 ROBs/RUBs is about Rs.150 crores, totalling Rs.520 crores.

3. (a) The BG link between Chennai Egmore and Chennai Central at a cost of Rs.90.44 crores (approx.) has been sanctioned as Material modification to the Suburban Gauge Conversion Project. Final location survey for fixing the alignment has been completed and approval of various yard plans and clearance of Government of Tamil Nadu have been sought to commence the work.

(b) CSO/MAS has sought guidance of Board(Adviser/Safety) on certain operational issues due to infringing gradient, vide letter No.T.143/MAS/MS/Elevated Line dated 16/07/2004. Board were appraised vide CAO/CN/MS letter No.W/337/1/122/CN/Vol.III dated 21/02/2005. Reply from Railway Board in this connection is still awaited.

(c) GM/MAS vide his DO letter No.GM/2005/RB dated 28/04/2005 addressed to CRB, has recommended for dropping of this work of BG link between Chennai Central and Chennai Egmore.

(d) Railway Board vide their letter No.99/Proj/MAS/2/3 dated 30/08/2005 have asked to get the technical feasibility of connection studied through RITES. A consultancy contract has been awarded to RITES for the same vide Railway letter No. W.193/XXII/17/CN dt 23/12/05.

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in year	Completed in year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Gauge Conversion—Concl.							
							(e) Draft report submitted by RITES has been circulated to operating, S & T, Mech & Safty departments of SR for their remarks.
							(f) RITES has advised to inneract with State Govt. agencies like PWD, CMDA & Corporation of Chennai regarding proposed alignment and layout of MAS - MS BG link.
							(g) The State Govt. advised that this project is not feasible in view of the Metro Rail Project crossing through Poonamalli High Road.
							h) RITES submitted their final report. However State Govt. have not cleared the proposal and in lieu of this, the proposal is dropped and Railway Board was advised vide this office letter No, W.193/XXII/17/CN dated 10/05/2007.
3.0 Doubling							
1.	Quilon - Trivandrum Doubling (65 kms.)	18,796.00	1990-1991	Completed	15,788.00	99	Work completed and opened for passenger traffic 19/06/2000. RRI work at Quilon is in progress. (Building completed) Yard remodelling work at QLN completed during February 2009. The above project was included during the year 1994-1995 at a cost of Rs.60 Crores.
2.	Shoranur - Kuttipuram - Calicut Doubling (86 kms)	21,994.00	1994-1995	Completed	19,049.00	98	<p>Status of the estimate: Estimate sanctioned by Railway Board for Rs. 112.92 Crores for Kuttipuram - Calicut Section on 23.03.2001. Material modification estimate for Shoranur-Kuttipuram was sanctioned by Railway Board for Rs. 64.42 Crores on 23.03.2001.</p> <p>1. The section between Vallikunnu and Kadalundi - Ferok (3.485 km) was opened for passenger traffic on 23/12/2003</p> <p>2. The section between Calicut and Ferok (8.843 km) was opened for passenger traffic on 23/04/2004</p> <p>3. The section between Kadalundi and Tanur (7.83 km) was opened for passenger traffic on 24/11/2004</p> <p>4. The section between Kadalundi and Ferok (0.796 km) Diversion portion was opened for passenger traffic on 01/07/2005.</p>

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							<p>5. The section between Tanur and Tirunavaya (16.5 km) was opened for passenger traffic on 20/07/2005.</p> <p>6. The section between Tirunavaya and Kuttipuram (6.17 km) was opened for passenger traffic on 29/09/2005.</p> <p>The section between Kuttipuram and Pallipuram (9.65 km) was opened for passenger traffic on 25/03/2006. Stage-III. Works at Kuttipuram in progress. (84%)</p> <p>8. The section between Pallipuram and Shoranur (19.283 kms) opened for passenger traffic on 13/03/2007.</p> <p>Shoranur yard work. Shoranur-Karakad regrading work, Karakad-Pallipuram regrading work, Kuttipuram passenger amenity works, Tirunavaya yard work, Kallayi yard works, Calicut yard work, Calicut passenger amenity works and Calicut yard regrading work are all in progress. Target; 30/06/2009.</p>
3.	Calicut - Mangalore-Doubling (221 kms)	57,251.00	1995-1996	NTVT-KNKD 2007-08 (Revised 2009-10)	55,491.00	97	<p>1. Out of 220.54 km, 218.30 km commissioned.</p> <p>2. Regrading of Cannanore - Valappattinam section will be commissioned on getting CRS sanction which is under process.</p> <p>3. Yard works for Cannanore will be completed by 31/3/2009 including modification suggested by CRS.</p> <p>4. Regraded track between Cannanore - Valappattinam can be programmed after getting CRS's sanction.</p> <p>5. For Nethravathi - Kankannadi Doubling work; Major bridge across Netravati River (24X21.4 m + 4X45.72) is in progress. As there was failure of earlier contract, new contract had been fixed which resulted in the postponement of the target. Substructure and super-structure contract fixed on 17/04/2007. Certain difficulties are experienced in the pile driving due to presence of boulders. Location of substructure (Pile location) changed and work restarted. Work can be completed by 31/08/2009.</p>

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in year	Completed in year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
4.	Irugur - Coimbatore Doubling (17.70 kms)	5,388.00	1996-1997	2008 - 09	6,763.00	77	Detailed estimate sanctioned by Railway Board for Rs.38.66 crores. Tenders have been awarded for earthwork, minor bridges and collection of ballast for full length and work is in progress. Works have also been taken up for the two major bridges on the section. The up line between Coimbatore and Coimbatore North (2.7 kms) has been completed and opened for traffic. (14-02-2004).
5.	Ernakulam Junction - Ernakulam Marshalling Yard Doubling (3 kms)	713.00	1999 - 2000	Completed	738.00	100	Works completed and commissioned on 12/06/2006.
6.	Attipattu - Korukkupet Third line (18 Kms) (RVNL PROJECT).	7,966.00	1999 - 2000	(KOK-ENR 12 kms) Target. 2006-07 Rev. 2007-08 AIP- ENR 2007-08 ENR-AIP - 2007-08 (Revised 2009-10)	9,795.00	55	<p>1. Status of the estimate: The detailed estimate for Attipattu - Korukkupet 3rd line was sanctioned by Railway Board for Rs.70.56 crores on 17/10/2002.</p> <p>2. The line between KOK - ENR is targetted for completion by 31/03/2008. All the yard plans approved. RVNL has deposited Rs.6 crores during 2004-05. During the 2005-06, RVNL has deposited Rs.43 crores. Out of this 12.50 crores is earmarked for this project. Track linking completed. Ballast dumping by BT and Packing by machine also completed. NI for all three stations completed and Loco light engine rolled on 25/03/2008 and CRS inspection was conducted on 28/01/09 and the section opened for traffic on 09/3/09 (at present freight traffic is being dealt with).</p> <p>3. For Ennore to Attipattu (6 kms) works are in progress.</p>
7.	Ernakulam - Mulanturtti Doubling (17.37 kms)	8,526.00	2001-2002	2006-07 (Revised 2009-10)	8,439.00	94	<p>Status of the estimate: Estimate sanctioned for Rs.41.82 crores by Board on 07/06/2002. Material Modification for Electrification of second line between Ernakulam and Mulanturtti subsection was sanctioned by Railway Board at a cost of Rs.4.18 crores on 6/10/2005 and the work will be done by RE/Construction.</p> <p>Part work of doubling between C & D cabins at ERS already completed commissioned on 12/06/2006. IPN line commissioned on 01/05/2007.</p>

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
8.	Pattabiram - Tiruvallur - 4th line (15.06 kms) and Tiruvallur - Arakkonam 3rd line (26.83 Kms) (RVNL Project).	7,194.00	2002 - 2003	Pattabiram - Tiruvallur completed	3741.00	27	<p>All works completed. CRS papers for minor sanction for three yards submitted. Papers for condonations for ROB infringement at two locations have also been submitted to Railway Board with CRS and CCRS recommendations. After getting clearance NI working at yards will be taken up and CRS inspection will be organised.</p> <p>The quadrupling work of Pattabiram-Tiruvallur section (16km) have been completed and inauguration of the section was held at Tiruvallur Railway Station on 18/09/2004 by Shri Lalu Prasad, Hon'ble Union Minister of Railways in the August presence of Smt. Rabri Devi, Hon'ble Chief Minister of Bihar in the presence of Shri R.Velu, Hon'ble Union Minister of State for Railways and other guests of honour.</p> <p>Works in Tiruvallur - Arakkonam section is being executed by RVNL. Land acquisition (6.5 Ha) as per details given by RVNL is being processed by Railways duly co-ordinating with RVNL.</p>
9.	Chennai Beach - Korukkupet 11rd line (4.1 kms)	8,570.00	2003 - 2004	Not fixed	21.00	0	<p>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 Rs. 85.70 crores has been sent to Board on 03/08/2007 for sanction. Modified detailed estimate for an amount of Rs.53.60 crores sent to Railway Board vide this office letter No.W.193/111/20/CN dated 31/12/2008.</p> <p>Large scale land has to be acquired from Chennai Port Trust for laying third and fourth line between Chennai Beach and Korukkupet (4 kms) for which GM/ S. Railway had a detailed discussion with Chennai Port Trust Authorities. As advised by GM/ S.Railway we had submitted a detailed plan for land acquisition to Chennai Port Trust. They are requesting some portion of Railway Line in Chennai Beach or Royapuram Yard as exchange. This is under process by Open line.</p>

Sl.No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in year	Completed in year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
10.	Mavelikkara - Kayankulam (7.89 kms)	4,260.00	2003 - 2004	2006-07 (Revised 2009-10)	4,778.00	98	Status of the estimate: Estimate is sanctioned by GM/MAS for Rs.26.81 crores on 26/07/2005. All works completed. CRS papers for minor sanctions of two yards and for the whole section submitted. After getting clearance from CRS, NI working at two yards will be taken up and CRS inspection will be organised.
11.	Cheppad - Kayankulam (7.76 kms)	3,750.00	2003 - 2004	2007-08 (Revised : 2009-10)	2,717.00	46	Estimate is sanctioned by GM/MAS for Rs.26.24 crores on 26/07/2005. Works are in progress and programme to complete by 31/05/2009. CRS papers for the two yards and the whole section will be submitted in May,2009 and NI working and CRS inspection will be organised in June,2009.
12.	Mavelikara - Chengannur - Patch Doubling (12.3 kms)	4,834.00	2003 - 2004	2007-08 (Revised : 2009-10)	3,984.00	47	Estimate for Rs. 48.34 crores has been sanctioned by Board on 07/12/2006. Working plan, working section and yard plan approved. Required land (6.24 H.a) handed over to Railways by State Government. Agency fixed for earth work and Minor Bridges and works are in progress.
13.	Madurai - Dindigul (62.05 kms)	20,292.00	2003 - 2004	2009-10	0.00	96	Work included in the Pink Book for the year 2003-04 at a cost of Rs.73.19 crores. Board have sanctioned the detailed estimate at a cost of Rs.128.56 crores vide Railway Board letter No.2003/W1/SR/GC/Madurai-Dindigul dated 28/08/2006. Mega block has been taken from 22/06/2007. The section between Dindigul and Kodaikkanal Road 22 kms. completed and opened for traffic on 30/9/08. The section between Kodaikkanal Road and Madurai 40.05 kms is completed. N.I working in 6 yards are involved. CRS papers submitted for minor sanction for these yards. CRS papers have also been submitted for entire section. After getting clearance from CRS, N.I working at the 6 stations will be taken up and CRS inspection will be organised.
14.	Cheppad - Haripad - Patch Doubling (5.28 kms)	2,765.00	2003 - 2004	2007-08 (Revised 2009-10)	1,296.00	34	Work included in the Supplementary Demand for Grants for 2003 - 2004. Detailed estimate is sanctioned by GM on 12/08/2005. All works are in progress and programmed to be

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
15.	Chennai Beach - Attipattu 4th Line (22.1 Kms)	10,242.00	2003-2004	Not fixed.	16.00	0	<p>completed by June, 2009. CRS papers for NI working and for whole section will be submitted in June, 2009. NI works and CRS inspection will be organised in July/August, 2009.</p> <p>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 Rs.102.42 crores sent to Board vide letter No.W.193/III/19/CN dated 16/10/2007 for sanction. Modified detailed estimate for an amount of Rs.102.95 crores sent to Railway Board vide this office letter No. W.193/111/19/CN dated 31/12/2008.</p> <p>Large scale land has to be acquired from Chennai Port Trust for laying third and fourth line between Chennai Beach and Korukkupet (4 kms) for which GM/S. Railway had a detailed discussion with Chennai Port Trust Authorities. As advised by GM/S.Railway, construction organisation has submitted a detailed plan for land acquisition was submitted to Chennai Port Trust. They are requesting some portion of Railway Line in Chennai Beach or Royapuram Yard as exchange. This is under process by open line.</p> <p>A proposal to float tender for major bridge work across Ennore Creek pending sanction of Railway Board has been sent to finance for concurrence to take GM's sanction.</p>
16.	Mullanturutti - Kuruppantara Doubling (24 kms)	8,646.00		Supp. Not fixed. Demands for grants 2005-06	2103.00	0	<p>Conceptual plans for all the yards has been sent to CTPM on 28/8/08 for approval. Detailed estimate amounting to Rs.86.46 crores sanctioned by GM vide No.W.193/1/CN/TVC/MNTT-KRPP-dated 31/01/2007. Mega tender including Electrical, S&T and other work invited but no response. Requisition for land acquisition for 11.50 Ha. has been given. Tenders invited for one major bridges and 3 minor bridges where Railway Land is available and opened on 14/10/08 are finalised. Tender for one ROB.</p>

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in year	Completed in year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Doubling—Contd.							
							opened on 28/11/2008 and under finalisation. Work has been awarded for the construction of major bridge No.402 on 06/02/09 and four major bridges Nos.360 & 367 and Minor bridges Nos.368 and 388 on 23/03/2009.
17.	Chengannur - Chingavanam Doubling (26.5 kms)	14,700.00	2006-07	Not fixed	903.00	0	This work has been included in 2006-07 at a cost of Rs.99.69 crores. Conceptual plans for all the yards has been sent to CTPM on 28/8/08 for approval. Detailed estimate amounting to Rs.132.25 crores sanctioned by GM/MAS. Requisition for land acquisition for 18.88 Ha. has been given and still no land has been handed over.
18.	Kankanadi - Panambur section Patch Doubling (19 kms)	7,000.00	Supp.	Not fixed	15.00	0	New work included in the supplementary Demand for 2006 -2007. Plan is under preparation. Final location survey is in progress. Detailed estimate sanctioned at the cost of Rs.149.20 crores. Tenders for certain works were land is not a problem, have already been invited.
19.	Chengalpattu - Villupuram (103 km) - Doubling	37,517.00	2007-08	Not fixed	6,873.00	0	1. New work included in Supp. Demand in the year 2006-07 at a cost of Rs.247 crores. Detailed estimate for Rs. 369.41 crores sanctioned by Railway Board vide letter No.2000/W-1/GC/SR/CGL-VM dated 08/04/2008. 2. COM/MAS has requested to do crossing station work at Vikkravandi and Madhuranthagam urgently as part of the doubling work and complete the work as early as possible. CTPM/MAS wants us to complete goods facilities at Mundiampakkam before removing goods handling facilities at VM. Contract awarded for Madhuranthagam Yard, Vikkaravandi Yard on 19/05/2008 and Mundiambakkam Yard on 02/06/2008 and work is in progress. Similarly, Ottivakkam and Melmaruvathur yard plan has been sent to division on 05/11/2008 for approval and same is awaited.

Sl. No.	Name of work	Estimated Cost (Rs. in Lakhs)	Started in the year	Completed in the year	Expenditure upto March 2009 (Rs. in Lakhs)	Physical Progress (%)	Remarks
Doubling—Concl.							
							3. Tender for Melmaruvathur station yard is awarded on 05/11/08 and the work is progress.
							4. Works in the yards are affected due to non-removal of MG OHE wires by Chennai Division, obstructed OHE Masks by OHE/CN unit and signal cables are also yet to be shifted by S&T/CN unit. This is being pursued.
							Mega Tender for earth work for all 3 reaches awarded. Contract for 4 major bridges awarded. 48 piles out of 127 piles and 6 out of 37 piles caps completed on Br. No. 211 on Palar River. Works started in Br. No.253 and Br. No. 424. Ballast collection is also in progress.
20.	Kuruppanthara - Chingavanam (26.54 Kms)	9920.00	2007-08	Not fixed	279.00	0	New work included in the budget 2007-08. Preparation of plan and estimate is in progress. Agency fixed for final location survey and is in progress. Conceptual plans for all the yards has been approved by CTPM.
21.	Ambalapuzha - Haripad(18.13)	4838.00	2007-08	Not fixed	198.00	00	New work included in the budget 2007-08. Preparation of plan is in progress. Agency fixed for final location survey and the same is in progress. Requisition for land acquisition for 18Ha has been given. Estimate under finance vetting.
22.	Tiruvallur-Arakkonam 4th line(26.83 Kms)	7692.00	2008-09	Not fixed	0.00	0	New work included in the Budget 2008-09. This work is allotted to RVNL vide Railway Board's letter No.2007/WP/SR/08-09/01 dated 15/07/2008.
23.	Villupuram-Dindigul (with Electrification. 273 Kms)	82239.00	2008-09	Not fixed	1.00	0	New work included in the Budget 2008-09. Tender for FLS has been awarded. FLS work in progress. Part detailed estimate for Villupuram - Tiruchchirappalli section prepared and sent to Board on 11/03/09 at a cost of Rs.903.39 crores.

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

Sl. No.	Division	Station	Name of work	Estimate cost Rs. in lakhs
<i>(i) Works costing more than Rs. 5 lakhs—</i>				
1.	MAS	..	Nil	-
2.	Salem	..	Nil	-
3.	Palghat	..	Nil	-
4.	Tirvandrum	..	Nil	-
5.	Tiruchchirappalli	..	VM: Upgradation of crew lobbies as unified lobby for crew and guards	30.00
6.	Madurai	..	Nil	-
7.	CN/MS	..	TEN: One pit line and yard arrangements in TEN yard.	615.00
8.	MTP	..	Nil	-

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

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

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

1.	MAS	..	Nil	-
2.	Salem	..	Nil	-
3.	Palghat	..	Nil	-
4.	Tirvandrum	..	Nil	-
5.	Tiruchchirappalli	..	ALK : Three line crossing station.	498.15
			TVNL, PRKL & PVN - Additional loops.	834.54
			ALU: Widening of goods approach road and provision of CC paving to full rake PF.	50.00
			TJ: Provision of new goods shed road with separate entry and exit facilities.	30.00
			TPJ: Provision of one stabling line on the southern side of the yard	49.00
6.	Madurai	..	Nil	-
7.	CN/MS	..	GC between Manamadurai and Virudunagar	850.00
			140 T Diesel crane shed at Madurai.	74.11
			Two pit line and one Mech. Shed in TEN yard.	1203.00
8.	MTP	..	Nil	-

GMR—5A

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

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

7. Line Capacity Work

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

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

(ii) Works costing less than Rs. 5 lakhs

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

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

1.	MAS	..	Nil	-
2.	TVC	..	Nil	-
3.	PGT	..	Nil	-
4.	MDU	..	Nil	-
5.	TPJ	..	Nil	-
6.	MTP	..	Nil	-
7.	SA	..	Nil	-
8.	CN/MS	..	All yards in MNM-VPT GC Project.	850

(ii) Works costing less than Rs. 5 lakhs

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

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

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

(ii) Works costing less than Rs. 5 lakhs

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

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

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

(ii) Works costing less than Rs. 5 lakhs

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

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

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

(ii) Works costing less than Rs. 5 lakhs

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

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

1.	MAS	..	Nil	..
2.	PGT	..	Nil	..
3.	TVC	..	NPK-Provision of 3 line crossing station between VLY-AAY stations.	597.41
4.	TPJ	..	Nil	..
5.	MDU	..	Nil	..
6.	SA	..	Nil	..
7.	MTP	..	Nil	..
8.	CN/MS	..	All yards MNM-VPT GC Project.	850.00

(ii) Works costing less than Rs. 5 lakhs

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

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

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

(ii) Works costing less than Rs. 5 lakhs

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

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

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

Sl. No.	Division	Station	Name of work	Estimate cost Rs. in lakhs
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(ii) Works costing less than Rs. 5 lakhs

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

V. Additional Traffic Facilities

(A) Works Completed

(i) Works costing more than Rs. 5 lakhs

1.	MAS	..	Nil	..
2.	PGT	..	Nil	..
3.	TVC	..	Nil	..
4.	TPJ	..	Nil	..
5.	MDU	..	Sanded dead works at KDU, CVP, NLL, SRT stations.	30.00
6.	SA	..	Erode-Goods shed- Concrete paving of the circulating area and approach road.	8.00
			TNT - Provision of point machined for the emergency cross over.	28.00
7.	MTP	Nil		
8.	CN/MS.	Nil		

(ii) Works costing less than Rs. 5 lakhs

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

(B) Works in progress

(i) Works costing more than Rs. 5 lakhs

1.	MAS	..	Nil	..
2.	PGT	..	Nil	..
3.	TVC	..	KLMR-Full rake unloading facility	283.18
			AFK-Augmentation/releasing capacity to full rake.	410.45
			NCJ-One single phase PF, one stabling line and simultaneous despatch and reception facilities.	706.00
			CAPE-Additional PF and extension of PF.	377.00
4.	MDU	..	Nil	..
5.	SA	..	Tiruppur-Conversion of road 4 as comon loop.	98.07
			MCRD-Augmentation of goods shed capacity to full rake.	49.40
6.	TPJ	..	Nil	..
7.	MTP	..	Nil	..
8.	CN/MS	..	Nil	..

Sl. No.	Division	Station	Name of work	Estimate cost Rs. in lakhs
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(ii) Works costing less than Rs. 5 lakhs

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

VI. Provision of Goods shed, Pit line, etc.,

(A) Works Completed

(i) Works costing more than Rs. 5 lakhs

1.	MAS	..	Nil	..
2.	PGT	..	Nil	..
3.	TVC	..	Nil	..
4.	TPJ	..	Nil	..
5.	MDU	..	Nil	..
6.	SA	..	Nil	..
7.	MTP	..	Nil	..
8.	CN/MS	..	2 pit line at MDU Yard	543.31

(i) Works costing less than Rs. 5 lakhs

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

(B) Works in Progress

(i) Works costing more than Rs. 5 lakhs

1.	MAS	..	Nil	..
2.	PGT	..	Nil	..
3.	TVC	..	CKI-Goods sheds improvement and paving of unloading area.	29.65
			OLR-Goods shed improvements and paving of unloading area.	29.65
4.	TPJ	..	Nil	..
5.	MDU	..	Nil	..
6.	SA	..	Nil	..
7.	MTP	..	Nil	..
8.	CN/MS	..	One pit line at MDU yard	570.35

(ii) Works costing less than Rs. 5 lakhs

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

8. Doubling of Line

(Repees in Crores)

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

New doubling sanction during the year 2008-2009

(MAS, PGT, TVC, TPJ, MDU, SA, MTP & CE/CN/MS as a Nil Report)

1	Quilon-Trivandrum Doubling (65 Km.)	99%	19.6.00	19.6.00	<p>Work completed and opened for passenger traffic 19.06.2000. RRI work at Quilon is in progress. (Building completed), Yard remodelling work at QLN completed during February 2009.</p> <p>The above project was included during the year 1994 - 1995 at a cost of Rs.60 crores.</p>
2	Shoranur-Kuttipuram-Calicut Doubling (86 Km.).	98%	..	..	<p>Status of the estimate: Estimate sanctioned by Railway Board for Rs.112.92 crores for Kuttipuram - Calicut Section on 23.03.2001.</p> <p>2. The section between Calicut and Feroke (8.843 km) was opened for passenger traffic on 23.04.2004.</p> <p>3. The section between Kadalundi and Tanur (7.83 km) was opened for passenger traffic on 24.11.2004.</p> <p>4. The section between Kadalundi and Feroke (0.796 km) Diversion portion was opened for passenger traffic on 01.07.2005.</p> <p>5. The section between Tanur and Tirunavaya (16.5 km) was opened for passenger traffic on 20.07.2005.</p> <p>6. The section between Tirunavaya and Kuttipuram (6.17 Km) was opened for passenger traffic on 29.09.2005.</p> <p>7. The section between Kuttipuram and Pallipuram (9.65 km) was opened for passenger traffic on 25.03.2006. Stage-III. Works at Kuttipuram in progress (84%).</p> <p>8. The section between Pallipuram and Shoranur (19.283 kms) opened for passenger traffic on 13.03.2007. Shoranur yard work, Shoranur-Karakad regarding work, Karakad-Pallipuram regarding work, Kuttipuram passenger amenity works, Tirunavaya yard work, Kallayi yard works, Calicut yard work, Calicut passenger amenity works and Calicut yard regarding works are all in progress. Target: 30.06.2009.</p>
3.	Calicut - Mangalore doubling (221 km)	97%	-	-	<p>1. Out of 220.54 km, 218.30 km commissioned.</p> <p>2. Regrading of Cannanore - Valappattinam section will be commissioned on getting CRS sanction which is under process.</p> <p>3. Yard works for Cannanore will be completed by 31.03.2009 including modification suggested by CRS.</p>

Sl. No.	Section & Length	Physical progress	Date of which section offered		Remarks
			Goods Traffic	Passenger Traffic	
4	Irugur - Coimbatore Doubling (17.70 kms.).	77%	Coimbatore-Coimbatore North. 14-2-1004		<p>4. Regarding track between Cannanore-Valapattinam can be programmed after getting CRS's sanction.</p> <p>5. For Nethravathi-Kankannadi Doubling work: Major bridge across Netravati River (24x21.4m+4x45.72) is in progress. As there was failure of earlier contract, new contract has been fixed which resulted in the postponement of the target. Substructure and Superstructure contract fixed on 17.04.2007. Certain difficulties are experienced in the pile driving due to presence of boulders. Location of substructure (Pile location) changed and work restarted. Work can be completed by 31.08.2009.</p> <p>Detailed estimate was sanctioned by Railway Board for Rs.38.66 crores. Tenders have been awarded for earth work, minor bridges and collection of ballast for full length and work is in progress. Works have also been taken up for the two major bridges on the section. The up line between Coimbatore and Coimbatore North (2.7 km) has been completed and opened for traffic (14.02.2004.)</p>
5	Ernakulam Junction-Ernakulam Marshalling Yard doubling (3 Kms.).	100%	12-6-2006	12-6-2006	Works completed and commissioned 12.6.2006.
6	Attipattu-Korukkupet Third line (18 Km.) RVNL Project.	55%	KOK-ENR 9.3.09		<p>1. Status of the estimate: The detailed estimate for Attipattu - Korukkupet 3rd line was sanctioned by Railway Board for Rs.70.56 crores on 17.10.2002.</p> <p>2. The line between KOK - ENR is targetted for completion by 31.03.2008. All the yard plans approved. RVNL has deposited Rs.6 crores during 2004-05. During the 2005-06, RVNL has deposited Rs.43 crores. Out of this 12.50 crores is earmarked for this project. Track linking completed. Ballast dumping by BT and Packing by machine also completed. NI for all three stations completed and loco light engine rolled on 25.03.2008 and CRS inspection was conducted on 28.01.09 and the section opened for traffic on 09.3.09 (at present freight traffic is being dealt with).</p> <p>3. For Ennore to Attipattu (6 Kms) work is under progress.</p>
7	Ernakulam-Mulanturti doubling (17.37 kms.).	94%	..	..	<p>Status of the Estimate: Estimate sanctioned for Rs.41.82 crores by Board on 07.06.2002. Material Modification for Electrification of second line between Ernakulam and Mulanturutti subsection was sanctioned by Railway Board at a cost of Rs.4.18 crores on 6.10.2005 and the work will be done by RE/ Construction. Part work of doubling between C & D cabins at ERS already completed commissioned on 12.06.2006. IPN line commissioned on 01.05.2007.</p>

Sl. No.	Section & Length	Physical progress	Date of which section offered		Remarks
			Goods Traffic	Passenger Traffic	
8	Pattabiram-Tiruvallur-4th line (15.06 Kms.) and Tiruvallur-Arakkonam-3rd line (26.83 Kms.) (RVNL-Project).	27%	PAB=TRL 18.9.04		<p>All works completed. CRS papers for minor sanction for three yards submitted. Papers for condonations for ROB infringement at two locations have also been submitted to Railway Board with CRS and CCRS recommendations. After getting clearance NI working at yards will be taken up and CRS inspection will be organised.</p> <p>The quadrupling work of Pattabiram - Tiruvallur section (16 km) have been completed and inauguration of the section was held at Tiruvallur Railway station on 18.09.2004 by Shri. Lalu Prasad, Hon'ble Union Minister of Railways in the August presence of Smt. Rabri Devi, Hon'ble Chief Minister of Bihar in the presence of Shri. R. Velu, Hon'ble Union Minister of state for Railways and other guests of honour. Works in Tiruvallur - Arakkonam section is being executed by RVNL. Land acquisition (6.5 Ha) as per details given by RVNL is being processed by Railways duly co-ordinating with RVNL.</p>
9	Chennai Beach-Korukkupet IIIrd line (4.1 Kms.).	0 %	..		<p>This work was originally allotted to RVNL for execution. Railway Board vide their letter No.2005/W1/RVNL/13 dated 07.04.2006 have advised Southern Railway to take up the execution. Action has been taken accordingly. Detailed estimate at a cost of Rs.85.70 crores has been sent to Board on 03.08.2007 for sanction. Modified detailed estimate for an amount of Rs.53.60 crores sent to Railway Board vide this office letter No.W.193/111/20/CN dated 31.12.2008.</p> <p>Large scale land has to be acquired from Chennai Port Trust for laying third and fourth line between Chennai Beach and Korukkupet (4 kms.) for which GM/S.Railway had a detailed discussion with Chennai Port Trust Authorities. As advised by GM/ S.Railway, CN (S. Rly.) had submitted a detailed plan for land acquisition to Chennai Port Trust. They are requesting some portion of Railway line in Chennai Beach or Royapuram Yard as exchange. This is under process by Open line.</p>
10	Mavilikkara - Kayankulam (789 kms.).	98%	..		<p>Status of the estimate : Estimate is sanctioned by GM/MAS for Rs.26.81 crores on 26.07.2005.</p> <p>All works completed. CRS papers for minor sanctions of two yards and the whole section submitted. After getting clearance from CRS, NI working at two yards will be taken up and CRS inspection will be organised.</p>

Sl. No.	Section & Length	Physical progress	Date of which section offered		Remarks
			Goods Traffic	Passenger Traffic	
11	Cheppad-Kayankulam (7.76 Kms.)	46%	..	..	Estimate is sanctioned by GM/MAS for Rs.26.24 crores on 26.07.2005. Works are in progress and programme to complete by 31.05.09. CRS papers for the two yards and the whole section will be submitted in May 2009 and NI working and CRS inspection will be organised in June 2009.
12	Mavelikkara-Chengannur-Patch Doubling (12.3 Kms.).	47%	..	..	Estimate for Rs.48.34 crores has been sanctioned by Board on 07.12.2006. Working plan, working section and yard plan approved. Required land (6.24 Ha) handed over to Railways by State Government. Agency fixed for earth work and Minor Bridges and works are in progress.
13	Madurai-Dindigul (62.05 Kms.).	96%	Dindigul-Kodaikkannal Road: 30.09.2008		<p>Work included in the Pink Book for the year 2003-04 at a cost of Rs.73.19 crores. Board have sanctioned the detailed estimate at a cost of Rs.128.56 crores vide Railway Board letter No.2003/W1/SR/GC/MDU-DG dt.28.08.2006. Mega block has been taken from 22.06.2007.</p> <p>The section between Dindigul and Kodaikkannal Road 22 Kms completed and opened for traffic on 30.09.08. The section between Kodaikkannal Road and Madurai 40.05 kms. N.I. working in 6 yards are involved. CRS papers submitted for minor sanction of these yards. CRS papers have also been submitted for entire section. After getting clearance from CRS, N.I. working at 6 stations will be taken up and CRS inspection will be organised.</p>
14	Cheppad-Haripad-Patch Doubling (5.28 Kms.).	34%	..	..	Work included in the supplementary Demand for Grants for 2003-2004. Detailed estimate is sanctioned by GM on 12.08.2005. All works are in progress and programmed to be completed by June 2009. CRS papers for NI working and for whole section will be submitted in June 2009. CRS papers for NI works and CRS inspection will be organised in July/August, 2009.
15	Chennai Beach/Attipattu 4th line Doubling (22.1 km.).	0%	..	..	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. Detailed estimate for Rs.102.42 crores sent to Board vide letter No.W.193/III/19/CN dated 16.10.2007 for sanction. Modified detailed estimate for an amount of Rs.102.95 crores sent to Railway Board vide this office letter No.W.193/111/19/CN dated 31.12.2008.

Sl. No.	Section & Length	Physical progress	Date of which section offered		Remarks
			Goods Traffic	Passenger Traffic	
16	Mullanturutti-Kuruppantara Doubling (24 Kms.).	0%	..	..	<p>Large scale land has to be acquired from Chennai Port Trust for laying third and fourth line between Chennai Beach and Korukkupet (4 kms.) for which GM/S.Railway had a detailed discussion with Chennai Port Trust Authorities. As advised by GM/S.Railway construction organisation had submitted a detailed plan for land acquisition to Chennai Port Trust. They are requesting some portion of Railway line in Chennai Beach or Royapuram Yard as exchange. This is under process by open line. A proposal to float tender for major bridge work across Ennore Creek pending sanction of Railway Board has been sent to finance for concurrence to take GM's sanction.</p> <p>Conceptual plans for all the yards has been sent to CTPM on 28.8.08 for approval. Detailed estimate amounting to Rs.86.46 crores sanctioned by GM vide No.W.193/1/CN/TVC/MNTT-KRPP dated 30.01.2007. Mega tender including Electrical, S&T and other work invited but no response. Requisition for land acquisition for 11.50 Ha. has been given. Tender invited for one major bridges and 3 minor bridges where Railway land is available and opened on 14.10.08 are finalised. Tender for one ROB opened on 28.11.2008 and under finalisation. Works has been awarded for the construction of major bridge no.402 on 06.02.09 and major bridges nos.360 & 367 and minor bridges No.368 and 388 on 23.03.2009.</p>
17.	Chengannur-Chingavanam Doubling (26.5 kms.).	0%	..	..	<p>This work has been included in 2006-07. at a cost of Rs.99.69 crores. Conceptual plans for all the yards has been sent to CTPM on 28.8.08 for approval. Detailed estimate amounting to Rs.132.25 crores sanctioned by GM/MAS. Requisition for land acquisition for 18.88 Ha. has been given and still no land has been handed over.</p>
18.	Kankanadi-Panambur section Patch Doubling (19 kms.).	0%	..	..	<p>New work included in the supplementary Demand for 2006-2007, Plan is under preparation. Final location survey is in progress. Detailed estimate sanctioned at the cost of Rs149.20 crores. Tenders for certain works were land is not a problem, have already been invited.</p>
19.	Chengalpattu-Villupuram Doubling (103 kms.).	0%	..	..	<p>1. New work included in the supplementary Demand for 2006-2007 at a cost of Rs.247 crores. Detailed estimate for Rs.369.41 crores sanctioned by Railway Board vide letter No.2000/W-1/GC/SR/CGL-VM dated 08.04.2008</p>

Sl. No.	Section & Length	Physical progress	Date of which section offered		Remarks
			Goods Traffic	Passenger Traffic	
					<p>2. COM/MAS has requested to do crossing station work at Vikkravandi and Maduranthakam urgently as part of the doubling work and complete the work as early as possible. CTPM/MAS wants CN (S. Rly.) to complete goods facilities at Mundiampakkam before removing goods handling facilities at VM. Contract awarded for Madhuranthagam Yard, Vikkravandi Yard on 19.05.2008 and Mundiambakkam yard on 02.06.2008 and work is in progress. Similarly, Ottivakkam and Melmaruvathur yard plan has been sent to division on 05.11.2008 for approval and same is awaited.</p> <p>3. Tender for Melmaruvathur station yard is awarded on 05.11.08 and the work is in progress.</p> <p>4. Works in the yards are affected due to non-removal of MG OHE wires by Chennai Division, obstructed OHE masks by OHE/CN unit and signal cables, are also yet to be shifted by S&T/CN unit. This is being perused.</p> <p>Mega tender for earth work for all 3 reaches awarded. Contract for 4 major bridges awarded. 48 piles out of 127 piles and 6 out of 37 piles caps completed on Br.No.211 on Palar River. Works started in Br.No.253 and Br No.424. Ballast collection is also in progress.</p>
20.	Kuruppanthara-Changavanam (26.54 kms.)	0%	..	..	New work included in the budget 2007-08. Preparation of plan and estimate is in progress. Agency fixed for final location survey and is in progress. Conceptual plans for all the yards has been approved by CTPM.
21.	Ambalapuzha-Haripad (18.13 kms.)	0%	..	..	New work included in the budget 2007-08. Preparation of plan and estimate is in progress. Agency fixed for final location survey and is in progress. Requisition for land acquisition for 18 Ha has been given. Estimate under finance vetting.
22.	Tiruvallur-Arakkonam 4th lien (26.83 Kms)	0%	..	..	New work included in the Budget 2008-09. This work is allotted to RVNL vide Railway Board's letter No.2007/WP/SR/08-09/01 dated 15.07.2008.
23.	Villupuram - Dindigul (with Electrification, 273 Kms)	0%	..	..	New work included in the Budget 2008-09. Tender for FLS has been awarded. FLS work in progress. Part detailed estimate for Villupuram-Tiruchchirappalli section prepared and sent to Board on 11.03.09 at a cost of Rs.903.39 crores.

9. Siding

Estimate cost (Rs. in Lakhs)

Sl. No.	Station	Description	Works Completed		Works in Progress	
			More than Rs. 5 lakhs	Less than Rs. 5 lakhs	More than Rs. 5 lakhs	Less than Rs. 5 lakhs
Sl. No.	Name of Work	Estimated cost in lakhs	Position as on 31.3.2009			
I. Private Sidings—Works completed						
(i) Works Costing more than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	TVC ..	Nil				
3.	PGT ..	Nil				
4.	TPJ ..	Nil				
5.	MDU-TNHP ..	a) Provision of loco pit inside the Green gate	13.92			
		b) Laying of BG railway siding inside the Green gate near coal stacking yard	92.94			
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				
(A) Private sidings - Works completed						
(ii) Works costing less than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	PGT ..	Nil				
3.	TVC ..	Nil				
4.	TPJ ..	Nil				
5.	MDU ..	A) Provision of check rail for a length of 30m at shallow draft berth		2.65		
		b) Providing check rail to approach road to the cargo berth No.8		2.35		
		c) Re-conditioning of BG track inside the Green gate at VOC Wharf		0.91		
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				
(A) Private sidings						
(ii) Works in progress						
(i) Works Costing more than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	PGT ..	Nil				
3.	TVC ..	Nil				
4.	TPJ ..	Nil				
5.	MDU ..	Nil				
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				
(ii) Works Costing less than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	PGT ..	Nil				
3.	TVC ..	Nil				
4.	TPJ ..	Nil				
5.	MDU ..	Nil				
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				

Estimate cost (Rs. in Lakhs)

Sl. No.	Station	Description	Works Completed		Works in Progress	
			More than Rs. 5 lakhs	Less than Rs. 5 lakhs	More than Rs. 5 lakhs	Less than Rs. 5 lakhs
Sl. No.	Name of Work	Estimated cost in lakhs	Position as on 31/3/2009			
(B) Assisted siding						
Works completed						
(i) Works costing more than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	PGT ..	Nil				
3.	TVC ..	Nil				
4.	TPJ ..	Nil				
5.	MDU ..	Nil				
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				
(B) Assisted siding						
Works completed						
(ii) Works costing less than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	PGT ..	Nil				
3.	TVC ..	Nil				
4.	TPJ ..	Nil				
5.	MDU ..	Nil				
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				
(B) Assisted Sidings						
(ii) Works in progress						
(i) Works Costing more than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	PGT ..	Nil				
3.	TVC ..	Nil				
4.	TPJ ..	Nil				
5.	MDU ..	MDU Division - MVN - TNHP - BG siding TSR section of existing wooden sleepers of M+4 density with serviceable C.I.I sleepers M+7 density for a length of 10.550 Kms from 1.000 to 10.780 and 11.680 in between MVN to TNHP yard.	369			
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				
(ii) Works Costing less than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	PGT ..	Nil				
3.	TVC ..	Nil				
4.	TPJ ..	Nil				
5.	MDU ..	Nil				
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				

Estimate cost (Rs. in Lakhs)

Sl. No.	Station	Description	Works Completed		Works in Progress	
			More than Rs. 5 lakhs	Less than Rs. 5 lakhs	More than Rs. 5 lakhs	Less than Rs. 5 lakhs
Sl. No.	Name of Work	Estimated cost in lakhs	Position as on 31/3/2009			
(C) Works under development						
(A) Works completed						
(i) Works costing more than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	PGT ..	Nil				
3.	TVC ..	Nil				
4.	TPJ ..	Nil				
5.	MDU ..	Nil				
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				
(C) Works under development						
(i) Works completed						
(ii) Works costing less than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	PGT ..	Nil				
3.	TVC ..	Nil				
4.	TPJ ..	Nil				
5.	MDU ..	Nil				
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				
(C) Works under development						
(ii) Works in progress						
(i) Works costing more than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	PGT ..	Nil				
3.	TVC ..	Nil				
4.	TPJ ..	Nil				
5.	MDU ..	Nil				
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				
(C) Works under development						
(ii) Works in progress						
(ii) Works Costing less than Rs. 5 lakhs						
1.	Chennai ..	Nil				
2.	PGT ..	Nil				
3.	TVC ..	Nil				
4.	TPJ ..	Nil				
5.	MDU ..	Nil				
6.	MTP ..	Nil				
7.	SA ..	Nil				
8.	CN/MS ..	Nil				

Estimate cost (Rs. in Lakhs)

Sl. No.	Station	Description	Works Completed		Works in Progress	
			More than Rs. 5 lakhs	Less than Rs. 5 lakhs	More than Rs. 5 lakhs	Less than Rs. 5 lakhs
Sl. No.	Name of Work	Estimated cost in lakhs	Position as on 31/3/2009			
(D) Railway Siding						
(i) Works completed						
(i) Works costing more than Rs. 5 lakhs						
1.	Chennai	Nil				
2.	PGT	Nil				
3.	TVC	Nil				
4.	TPJ	Nil				
5.	MDU	Nil				
6.	MTP	Nil				
7.	SA	Nil				
8.	CN/MS	Nil				
(ii) Works costing less than Rs. 5 lakhs						
1.	Chennai	Nil				
2.	PGT	Nil				
3.	TVC	Nil				
4.	TPJ	Nil				
5.	MDU	Nil				
6.	MTP	Nil				
7.	SA	Nil				
8.	CN/MS	Nil				
(D) Railway Siding						
(ii) Works in progress						
(i) Works costing more than Rs. 5 lakhs						
1.	Chennai	Nil				
2.	PGT	Nil				
3.	TVC	Nil				
4.	TPJ	Nil				
5.	MDU	Nil				
6.	MTP	Nil				
7.	SA	Nil				
8.	CN/MS	Nil				
(ii) Works Costing less than Rs. 5 lakhs						
1.	Chennai	Nil				
2.	PGT	Nil				
3.	TVC	Nil				
4.	TPJ	Nil				
5.	MDU	Nil				
6.	MTP	Nil				
7.	SA	Nil				
8.	CN/MS	Nil				

10. Strengthening of Track**ABSTRACT**

Sl. No.	Division	Works Completed				Works in Progress			
		less than Rs. 5 lakhs		more than Rs. 5 lakhs		less than Rs. 5 lakhs		more than Rs. 5 lakhs	
		No. of Works	Aggregated Cost (Rs. in lakhs).	No. of Works	Aggregated Cost (Rs. in lakhs).	No. of Works	Aggregated Cost (Rs. in lakhs).	No. of Works	Aggregated Cost (Rs. in lakhs).
	All Divisions	5	15.01	27	2,174.85	14	1,024.09	39	2,254.17

Sl. No.	Division	Works Completed				Works in Progress			
		less than Rs. 5 lakhs		more than Rs. 5 lakhs		less than Rs. 5 lakhs		more than Rs. 5 lakhs	
		No. of Works	Aggregated Cost (Rs. in lakhs).	No. of Works	Aggregated Cost (Rs. in lakhs).	No. of Works	Aggregated Cost (Rs. in lakhs).	No. of Works	Aggregated Cost (Rs. in lakhs).
1	MAS	4	13.01	12	1,303.85	11	1014.09	Nil	Nil
2	SA	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
3	PGT	1	2.00	14	569.00	3	10.00	29	1,185.00
4	TVC	Nil	Nil	Nil	Nil	Nil	Nil	4	95.67
5	TPJ	Nil	Nil	Nil	Nil	Nil	Nil	4	323.50
6	MDU	Nil	Nil	1	302.00	Nil	Nil	2	650.00
7	CN/MS	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
8	MTP	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total		5	15.01	27	2,174.85	14	1,024.09	39	2,254.17

11. Fencing

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

1.	Chennai	1. TVT - Fencing work at TVT - BBQ section, KOK - VPY, KOK - WST 2/48-13/32, MAS-GDR, TVT-Marshalling yard	6.00
2.	PGT	1. MAQ-Provision of boundary wall along railway limit to prevent encroachments. 2. MAQ-Rail by Barricading to prevent accidents at vulnerable locations	15.56 40.39
3.	TVC	Nil	
4.	TPJ	Nil	
5.	MDU	Nil	
6.	SA	Nil	
7.	MTP	Nil	
8.	CN/MS	Prividing fencing at ABI staetions and LC between DG-KQN	53.60

(ii) Works Costing less than Rs. 5 lakhs :-

1.	Chennai	1. PUT-Provision of RCC fencing 2. RPM-Provision of RCC fencing	3.00 1.00
2	PGT	1. MNUR-RCC pale fencing for PF No.2 2. PKQ-RCC pale fencing 3. MLTR-RCC pale fencing	4.20 4.20 4.26
3	TVC	ERN - Compound wall - IInd PF & ERG - Boundary wall.	4.88
4	TPJ	Nil	
5	MDU	Nil	
6	SA	Nil	
7	MTP	Nil	
8	CN/MS	Nil	

Sl. No.	Division/Station	Name of work	Cost of Rs. (in lakhs)
(A) Works in Progress :-			
(i) Works Costing more than Rs. 5 lakhs :-			
1.	Chennai	JTJ-Provision of compound wall to avoid encroachments.	83.00
2.	PGT	PGT-Provision of fencing for protecting Railway land	13.00
		MAQ-SE/P.way/KGQ section - construction of boundary wall for 795m	11.34
		KZC-RCC pale fencing	5.52
		TDPM-RCC pale fencing	5.52
3.	TVC	SRR-ERS rail fencing at Km.102/0-102/500 and ERS-KTYM 3/00 - 900.	10.08
4.	TPJ	Nil	..
5.	MDU	Nil	..
6.	SA	Nil	..
7.	MTP	Nil	..
8.	CN/MS	Nil	..
(ii) Works Costing less than Rs. 5 lakhs :-			
1.	Chennai	Nil	..
2.	PGT	TA - RCC pale fencing	3.54
		PGT - RCC pale fencing	2.14
3.	TVC	NCJ - Provision of rail fencing for a length of 450 m.	4.63
4.	TPJ	Nil	..
5.	MDU	Nil	..
6.	SA	Nil	..
7.	MTP	Nil	..
8.	CN/MS	Nil	..

12. Running Shed Facilities

Sl.No.	Division	Station/ Section	Name of work	Cost of Rs. (in lakhs)
(A) Works Completed :-				
(i) Works Costing more than Rs. 5 lakhs :-				
1.	Chennai	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	ERN : Running Room		42.90
5.	TPJ	Nil		
6.	MDU	Nil		
7.	CN/MS	Nil		
8.	MTP	Nil		
(ii) Works Costing less than Rs. 5 lakhs :-				
1.	Chennai	Maintenance of trip shed at BBQ and RPM		1.00
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	ERS-Arresting of leakage of running bungalow		3.00
5.	TPJ	Nil		
6.	MDU	Nil		
7.	CN/MS	Nil		
8.	MTP	Nil		

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

1.	Chennai	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	NCJ - Construction of new running room	30.00	
5.	TPJ	MV : 30 bedded running room..	88.00	
		TPJ : Upgradation of existing running room	29.00	
6.	MDU	Nil		
7.	CN/MS	Serving building and mechanical shed at TEN..	193.00	
		140 Ton Diesel Crane shed at MDU	74.11	
8.	MTP	Nil		

(ii) Works Costing less than Rs. 5 lakhs :-

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

13. Improvements to office stores and workshops

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

1.	Chennai	Nil	
2.	CN/MS	TBM: Tambaram car shed Roofing works	65.77
3.	MTP	Nil	
4.	SA	Construction of office building to SSE/ P.Way/ED	6.05
5.	PGT	Construction of additional 2 rooms for ASC/PGT.	17.00
6.	TVC	ERS - Construction of load box at diesel shed.	35.07
7.	TPJ	GOC - Diesel shed construction of administrative building and model class room at DTTC.	30.00
		GOC - Diesel loco shed modification and expansion of hosting facilities at DSL traction training centre.	30.00
		GOC construction of bins with concrete flooring for stacking of ferrous scrap in Bhilai yard area.	30.00
		TPJ-ZRTI improvements to flooring and walls in class rooms and verandah, window replacement.	30.00
8.	MDU	Nil	

Sl. No.	Division	Station & Name of work	Estimate Cost Rs. (in lakhs)
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(ii) Works costing less than Rs. 5 lakhs each.

1.	Chennai	AJJ improvements of stores etc.,	2.00
2.	CN/MS	Nil	
3.	MTP	Nil	
4.	SA	RE- Construction of SE/W office at KRR	3.02
		Proposed office for SE/PW/E/KRR	3.00
		Provision of Transparent roofs sheets and replacement of damaged north light glasses at bay No.7&8 at DLS /ED.	1.80
		Improvements to repairs to officers rest house at KRR	3.00
5.	PGT	Nil	
6.	TVC	Nil	
7.	TPJ	Nil	
8.	MDU	Nil	

(A) Works in Progress :-**(i) Works Costing more than Rs. 5 lakhs :-**

1.	Chennai	JTJ - Concrete path way in despatch at JTJ.	36.00
2.	CN/MS	Chennai Central BG Electric loco shed to handle 50 locos.	1556.00
		GOC: Ponmalai workshop-Creation of facilities for overhauling high horse power new generation diesel locos.	2026.00
		Palghat - Inspection & stabling facilities for MEMUs.	758.00
		Basin Bridge Junction - Removal of deficiencies of coach maintenance infrastructure.	699.00
		Quilon inspection and stabling facilities for MEMU for main line.	700.00

Sl. No.	Division	Station & Name of work	Estimate Cost Rs. (in lakhs)
		Ernakulam - Diesel shed expansion of capacity.	280.00
		Ponmalai workshop - Facilities for elimination of essential infrastructure inadequate for BG & MG rolling stock POH.	277.00
		Perambur shop - Modernisation of electrical shops at Perambur on techno-economic basis.	537.00
		Mangalore Junction - 24 coach pit line as per CAMTECH design.	310.00
		Erode - Electric loco shed - Augmentation of additional infrastructure facilities to increase the holding capacity from 100 to 120 locos.	220.00
		Perambur infrastructure facilities for bogie repair shops and roller bearing activities.	418.00
		Royapuram-expansion of air-conditioned electric loco shed to increase loco holding from 50 to 100.	1573.00
		Erode (Electric loco shed) - Augmentation of infrastructural facilities to increase holding from 120 to 150 locos.	1274.00
		Tuticorin - Extension of pit line from 21B to 24 B with catwalk & covered shed for sick line.	490.00
		Tondiarpet, Irumpunam, Jolarpet - Conversion of ROH depot from vacuum to air brake stock-maintenance facilities for repair of unloading wagons.	3497.00
		Perambur loco works - Modernisation of workshop.	5900.00
3. MTP	Nil		
4. Salem	PTJ - S&T work shop - Installation of Reverse Osmosis Plant.	8.00	
	PTJ - S&T Works shop - Surroundings by land scaping, improving the waste land inside the work shop by providing roads and garden.	30.00	
	UAM-Construction of 1st class RPF office	29.00	
	Track machine rest room at SLY, MAP & KRR.	29.00	
5. PGT	PGT SRR & AAM - Improvements to SE/PW/O at SRR & AAM.	13.13	
6. TVC	NCJ: Proposed combined crew booking office and crew lobby	35.38	
7. TPJ	MV - Construction of a new crew booking office at MV (Id.1180/05-06)	17.00	
	TPJ/RPF/TC/KG construction of 4 Nos. of class room.	30.00	
	TPJ/RPF/TC/KG construction of barracks for RPF staff - 30 beds capacity.	30.00	
	TPJ - New building for Divisional Permanent Way School (ID-555/05-06).	71.00	
	Construction of a new office building at Genl/Stores/Depot/GOC.	16.00	
	Re-building of cracked office building at SEW/TPJ & SE/P.Way/TPJ.	30.00	

Sl. No.	Division	Station & Name of work	Estimate Cost Rs. (in lakhs)
		TPJ - Conversion of old model room into Yoga and indoor game hall @ ZRTI/TPJ.	30.00
		Improvement of office accommodation in Accounts branch in Divisional office complex.	30.00
		TPJ - Construction of additional auditorium over the existing building for ZRTI/TPJ.	30.00
8. MDU	Nil		
		(i) Works Costing less than Rs. 5 lakhs :—	
1. Chennai	JTJ - Improvement of office and work shops	1.00	
2. CNMS	Nil		
3. MTP	Nil		
4. Salem	Nil		
5. PGT	Nil		
6. TVC	Nil		
7. TPJ	Nil		
8. MDU	Nil		

14. Flood Investigation and related subjects 2008-09

A. A Review of Vulnerable Bridges and Reaches:

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.

After detailed review by the Divisions, during the year 2008-2009, a total of 214 Nos. have been classified as vulnerable and problematic from consideration of waterway and floods. During the year 2008-2009, Flood Organization has investigated a total Number of 85 Nos bridges and reaches including GAD clearance and other reference received from the State Authorities and respective recommendations were communicated to the Divisions.

B. River Gauging and Survey Works :

During the monsoon of 2008-2009, 5 bridge sites were gauged in the Southern Railway as per the direction of RDSO/LKO. Hydro meterological data were collected from the 5 bridge sites and were submitted to RDSO/LKO for further analysis.

C. State Committee of Engineers :

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

During the year 2008-09 the above meeting was held for Andhara Pradesh on 12.06.08, Karnataka on 25.04.08 and Tamilnadu on 05.11.08

D. Draft Manual of Instructions for Railway Affecting Tanks:

The Draft Manual of Instructions for Railway Affecting Works prepared in 1964 by the Research Design and Standards Organization 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 Organization and forwarded to the Railway Board for final approval and to initiate the legislation as recommended by Khosla Committee so that the provision in the Manual could be binding on all the concerned Departments of Central and State Governments.

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

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

E. Breaches and washaways

Details of breaches and washaways occurred during the year 2008-2009 as follows:-

Tiruchchirappalli Division: cost of restoration: - Rs.30.773 lakhs.

1. Causeway at Km 396/600 between TRB and GOC stations in MV-TPJ Section on 24.11.08.

2. Breaches on Track between TVR-PKT section in MV-KKDI Section on 18.11.08.

3. Breaches on Track at Km.84/000-101/000 between AMM and MTT sections from 24.11.08 to 30.11.08.

Sl. No.	Division	Section	Br.No.	Exg.Span	Km.	Description
1.	MAS	MAS-GDR	Track	-	94/30-95/30	Water Logging
2.	MAS	MAS-GDR	210		101/28-30	Water Logging
3.	MAS	MAS-GDR	Track	-	129/19-21	Potholes
4.	MAS	MAS-GDR	Track	-	114/5-3	Potholes
5.	MAS	MAS-GDR	Track	-	37/21-23	Potholes
6.	MAS	MAS-GDR	167			Protetive works
7.	MDU	MDU-BDNK	113	2x1.22m SD in MG line	51/1-2	Rebuilding
8.	MDU	MDU-BDNK	114			Rebuilding
9.	MDU	DG-POY	89	1x0.46m AC	40/16-41/1	Rebuilding
10.	MDU	VPT-TSI	43	2x1.2m RCB	562/100-200	Water overflowing @BR.No.43
11.	MDU	MEJ-TN	TN Yard T 33	1x0.61m SD	653/300-400	Water overflowing

Sl. No.	Division	Section	Br. No.	Exg. Span	Km.	Description
12.	MDU	MNM-RMM	291	2X6.1X2.20M RCB	600/800-900	CE/W Inspection Notes
13.	PGT	MTP-ONR	33	1x11.86M.G.	12/6 7	Breaches
14.	PGT	SRR-MAQ	1177	6x12.19M.G.	822/5-6	Rebuilding
15.	PGT	SRR-MAQ	1159	1x12.19M.G.	800/6-7	Rebuilding
16.	PGT	SRR-MAQ	1149	6x12.19M. & 2x6.10M.G.	788/5-7	Rebuilding
17.	PGT	MAQ-Panambur	21	2x1.22M RP	14/5-6	Rebuilding
18.	PGT	MAQ-Panambur	22	2x1.22M RP	14/13-14	Rebuilding
19.	PGT	MAQ-Panambur	23	2x1.22M RP	15/2-3	Rebuilding
20.	PGT	MAQ-Panambur	27	1x1.22M RP	16/14-15	Rebuilding
21.	PGT	MAQ-Panambur	29	1x1.22M RP	17/200-300	Rebuilding
22.	PGT	MAQ-Panambur	45	1/0.91M RP	23/700-800	Rebuilding
23.	PGT	MAQ-Panambur	46	1x1.22M RP	24/000-100	Rebuilding
24.	SA	ED-PTJ	338	2x0.91M SD	384/4-6 Dn	Rebuilding
25.	SA	ED-PTJ	393	2x0.91M SD	415/17-19 Up	Rebuilding
26.	SA	ED-PTJ	398	1x0.91M SD	420/21-23 Up	Rebuilding
27.	SA	ED-PTJ	401	1x0.91M SD	422/7-9 Up	Rebuilding
28.	SA	ED-PTJ	412	3x0.91M SD	431/8-10 Up	Rebuilding
29.	SA	JTJ-ED	18	1x1.83M A Up and Dn lines	220/34-221/2	Rebuilding
30.	SA	JTJ-ED	33	1x4.57M A Up and Dn lines	230/13-16	Rebuilding
31.	SA	JTJ-ED	81	1x0.91M A Up and Dn lines	256/11-14	Rebuilding
32.	SA	JTJ-ED	205	1x6.10M A	308/600-700	Rebuilding
33.	SA	SA-MTDM	1A	2x1.22M SD	0/2-3	Rebuilding
34.	SA	SA-MTDM	5	2x1.22M SD	2/15-16	Rebuilding
35.	SA	SA-MTDM	23	2x1.22M SD	12/7-8	Rebuilding
36.	SA	SA-MTDM	26	2x1.22M SD		Rebuilding
37.	TPJ	VM-KPD	248	5x7.62M G	99/15-17	Rebuilding
38.	TPJ	MV-KKDI	306	1x0.61M RP	65/4-5	Rebuilding
39.	TPJ	TVR-NCR	203 A	1x0.91M RP	77/1-2	Closure
40.	TPJ	TVR-NCR	204	1x0.30M AC	77/13-14	Closure
41.	TVC	ERN-IPN-CRL Siding	CRL 9	1x0.76M RP	8/700-800	Closure
42.	TVC	SRR-CHTS	HR 10	1x0.46M RP	114/100-200	Closure
43.	TVC	ERS-QLN	452	1x0.46M RP	13/400-500	Closure
44.	MAS	VM-MV	627			
45.	MAS	VM-MV	628			
46.	MAS	VM-MV	633			
47.	MAS	VM-MV	639			
48.	MAS	VM-MV	658			
49.	MAS	VM-MV	669			
50.	MAS	VM-MV	675			
51.	MAS	VM-MV	685			
52.	MAS	VM-MV	691			
53.	MAS	VM-MV	696			

Sl. No.	Division	Section	Br. No.	Exg. Span	Km.	Description
54.	MAS	VM-MV	711			
55.	MDU	MNM-VPT	288			
56.	MDU	DG-POY	21			
57.	MDU	DG-POY	27			
58.	MDU	DG-MDU	1392			
59.	MDU	DG-MDU	1393			
60.	MDU	DG-POY	153			
61.	MAS	CGL-VM	432			
62.	MDU	DG-POY	112			
63.	MDU	TEN-TSI	1776			
64.	MDU	TEN-TSI	1812			
65.	MDU	DG-MDU	1402			
66.	MAS	KPD-JTJ	595			
67.	MAS	KPD-JTJ	600			
68.	MAS	KPD-JTJ	240			
69.	MDU	MNM-VPT	211			
70.	MAS	CGL-VM	424			
71.	MDU	MNM-VPT	288			
72.	MDU	DG-POY	21			
73.	MDU	DG-POY	27			
74.	MDU	DG-MDU	1392			
75.	MDU	DG-MDU	1393			
76.	MDU	DG-POY	153			
77.	MAS	CGL-VM	432			
78.	MDU	DG-POY	112			
79.	MDU	TEN-TSI	1776			
80.	MDU	TEN-TSI	1812			
81.	MDU	DG-MDU	1402			
82.	MAS	KPD-JTJ	595			
83.	MAS	KPD-JTJ	600			
84.	MAS	KPD-JTJ	240			
85.	MDU	MNM-VPT	211			

14B-Rehabilitation of Bridges :

Para	Name of Work	Total	
		No. of Bridges where work has been completed	No. of Bridges where work in progress
	(a) Regirdering:		
	(i) Replacement of weak/corroded girders with new girders	1	10
	(ii) Strengthening of weak/ corroded girders	0	8
	(b) Replacement of existing girders/ timber top with RCC slab	6	6
	(c) Strengthening of sub-structure only	8	12
	(d) Repl of exg weak/corroded girders with new girders including strengthening of sub-structure.	3	6
	(e) Rebuilding of existing weak bridges	24	88
	(f) Miscellaneous bridge works including provision of centralised bearing, renewal of bed-blocks, etc.	0	0
	Total of items (a) to (f)	42	160
14. C	Extension of existing bridges	0	0
14. D	Construction of new bridges	0	2

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

i) No. of bridges: 4 (Four)

ii) Details:

1. SA Division - ED-TP section - ROB in lieu of LC No: 48 at km 93/13-14 under Four laning project by NHAI (span 1x37.80m PSC Box Girder)
2. MDU Divn - Proposed Limited Use Subway in lieu of exg. **LC No: 382** at km 515/900- 516/000 in MDU-VPT section
3. MDU Divn - Proposed Limited Use Subway in lieu of exg. **LC No: 425** at km 567/0-100 in VPT-MEJ section
4. MDU Divn - Proposed Limited Use Subway in lieu of exg. **LC No: 427** at km 572/300-400 in VPT-MEJ section.

b) Works in Progress:

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

ii) Details:

1. SA Divn - Pro RUB in lieu of LC No: 38 at km 65/9090-66/000 in ED-TP section.
2. SA Divn - Pro RUB in lieu of LC No: 92 at km 226/24-26 in JTJ-ED section.
3. SA Divn - Pro RUB in lieu of LC No: 93 at km 230/8-10 in JTJ-ED section.
4. SA Divn - Pro RUB in lieu of LC No: 94 at km 232/4-6 in JTJ-ED section.
5. SA Divn - Pro RUB in lieu of LC No: 95 at km 237/24-26 in JTJ-ED section.
6. SA Divn - Pro RUB in lieu of LC No: 97 at km 245/24-26 in JTJ-ED section.
7. SA Divn - Pro RUB in lieu of LC No: 98 at km 247/17-19 in JTJ-ED section.
8. SA Divn - Pro RUB in lieu of LC No: 101 at km 274/4-6 in JTJ-ED section.
9. SA Divn - Pro RUB in lieu of LC No: 103 at km 279/32-34 in JTJ-ED section.
10. SA Divn - Pro RUB in lieu of LC No: 104 at km 283/18-20 in JTJ-ED section.
11. SA Divn - Pro RUB in lieu of LC No: 106 at km 290/9-11 in JTJ-ED section.
12. SA Divn - Pro RUB in lieu of LC No: 107 at km 294/13-15 in JTJ-ED section.
13. MDU Divn - Proposed Limited Use Subway in lieu of exg **LC No: 379** at km 513/400-500 in MDU-VPT section.
14. MDU Divn - Proposed Limited Use Subway in lieu of exg **LC No: 388** at km 527/1-2 in MDU-VPT section.
15. MDU Divn - Proposed Limited Use Subway in lieu of exg **LC No: 391** at km 530/800-900 in MDU-VPT section.
16. MDU Divn - Proposed Limited Use Subway in lieu of exg **LC No: 436** at km 584/600-700 in VPT-MEJ section.
17. MDU Divn - Proposed Limited Use Subway in lieu of exg **LC No: 441** at km 589/600-700 in VPT-MEJ section.

18. MDU Divn - Proposed Limited Use Subway in lieu of exg **LC No: 345** at km 424/7-8 in TPJ-MNM section.
19. MDU Divn - Proposed Limited Use Subway in lieu of exg **LC No: 455** at km 553/5-6 in TPJ-MNM section.
20. MDU Divn - Proposed Limited Use Subway in lieu of exg **LC No: 446** at km 540/14-15 in TPJ-MNM section.
21. MDU Divn - Proposed Limited Use Subway in lieu of exg **LC No: 445** at km 585/100-200 in VPT-TSI section.
22. MDU Divn - Proposed Limited Use Subway in lieu of exg **LC No: 46** at km 52/10-11 in TEN-TSI(MG) section.
23. MDU Divn - Proposed Limited Use Subway in lieu of exg **LC No: 34** at km 597/7-8 in MNM-VPT(MG) section.
24. MAS Division - Proposed RUB in lieu of **LC No.34** @ km 72/26-28 in AJJ-RU section.
25. MAS Division - Proposed ROB in lieu of **LC No.38** @ km 79/10-12 in AJJ-RU section.
26. MAS Division - Proposed ROB in lieu of **LC No.4** @ km 5/8-10 in CGL-AJJ section.
27. TVC Divn - Proposed Limited Use Subway (1x3.0m) in lieu of exg **LC No: 106** at km 345/500-600 in NCJ-TEN section.
28. TVC Divn - Proposed Limited Use Subway (1x3.0m) in lieu of exg **LC No: 85** at km 325/500-600 in NCJ-TEN section.
29. TVC Divn - Proposed Limited Use Subway (1x3.0m) in lieu of exg **LC No: 99** at km 338/000-100 in NCJ-TEN section.
30. TVC Divn - Proposed Limited Use Subway (1x3.0m) in lieu of exg **LC No: 28** at km 48/000-100 in ERS-KTYM section.
31. TVC Divn - Proposed Limited Use Subway (1x3.0m) in lieu of exg **LC No: 24** at km 44/000-100 in ERS-KTYM section.
32. TVC Divn - Proposed Limited Use Subway (1x3.60m) in lieu of exg **LC No: 16** at km 16/600-700 in ERS-KYJ-TVC section.
33. TVC Divn - Proposed Limited Use Subway (1x3.60m) in lieu of exg **LC No: 37** at km 115/600-700 in ERS-KYJ-TVC section.
34. TVC Divn - Proposed Limited Use Subway (1x3.0m) in lieu of exg **LC No: 7** at km 7/000-100 in NCJ-CAPE section.
35. TVC Division - Proposed 1x35m PSC BoX girder ROB in lieu of **L.C. No.2** (Ponnuranni) @ km3/19-20 on Palarivakkam - Vyttila Road in between Ernakulam and Tritunithura stations in ERS - KTYM - QLN section.
36. TVC Division - Proposed 1x35m PSC BoX girder ROB in lieu of **L.C. No.2** @ km 221/400-500 in TVC - NCJ section.
37. TVC Division - Proposed 1 x 30m PSC Box girder & 2 X 11.812m span PSC slab ROB in lieu of **LC No. 6** @ km 8/100-200(Mullorkkara) in between Vallattol Nagar-Wadakancheri stations.
38. TVC Division - Proposed 1 x 20m PSC Box girder & 2 X 11.812m span PSC slab ROB in lieu of **LC No. 13** (Athani) @ km 21/5-6 on Athari Medical college Road in between Wadakancheri and Mulagunathukavu stations in SRR - ERS section.
39. TVC Division - Proposed 1 x 30 m PSC Box girder ROB in lieu of **LC No. 14** (Mulankunnath Kavuv yard) @ km 23/100 - 200 on Mulankunnath Kavuv Medical College Road in between Punnunam - Mulagunathukavu stations in SRR - ERS section.
40. TVC Division - Proposed 1 x 25 m PSC I Beam & slab ROB in lieu of **LC No. 19** (Karukutty) @ km.30/800 - 900 on Thrissur Corporation Road in between Punnunam - Trichur in SRR - ERS section.
41. TVC Division - Proposed 1x21m span PSC girder deck ROB in lieu of **LC No. 31** (Nandikara) at km 49/200-300 on NH.47, - Irinjaguda Road in between Pudukkad and Nellayi station in SRR - ERS section.
42. TVC Division - Proposed 1x21m span PSC girder deck ROB in lieu of **LC No. 32** (Nandikara) at km 287/600-700 on TVC-NCJ section.
43. TVC Division - Proposed 1x30m PSC Box girder span type - RUB in lieu of **LC. No.33** (Ettumanur) @ km.61/600 - 700 in between Ettumannur and Kottayam (Kumaranallore) stations in ERS - QLN section.
44. TVC Division - Proposed 1X30m PSC Box girder ROB in lieu of **LC No.36** @ km.56/0- 100 in between Kottayam-Chingavanam stations (Moolledem) in ERS - QLN section.
45. TVC Division - Proposed 1 x 25 m PSC voided slab ROB in lieu of **L.C. No.43** (Kalletumkara) @ Km.56/9-10 on NH.47 - Irinjaguda Road in SRR - ERS section.
46. TVC Division - Proposed 1 X 25m PSC Box girder ROB in lieu of **LC No. 45** (Aloor) at Km 58/2-3 on Aloor - Mla Road in between Irinjaguda and Chalakudi stations in SRR - ERS sections.
47. TVC Division - Proposed 1 x 20m & 2 X 15 ROB in lieu of **LC No.46** (Vellanchira) at Km.60/900 - 61/000 on Kotta - Irinjaguda Road in between Irinjaguda and Chalakudi stations in SRR - ERS section.
48. TVC Division - Proposed RUB in lieu of **LC No.50** (Kaukkutty) @ km 64/200 - 300 in between Chalakkudy-Karukutty stations in SRR - ERS section.
49. TVC Division - Proposed 1x30m PSC box girder ROB in lieu of **LC No. 52** (Divine nager) at KM. 65/11-12 on NH.47 in between Chalakkudy - Karukutty stations in SRR - ERS section.
50. TVC Division - Proposed 1x39m bowstring girder ROB in lieu of **L.C.No.54** (Korattiangadi) @ Km 67/13-14 on Koratty - Pulikkakadavu Road in between Divine Nagar-Korattiangadi stations in SRR - ERS section.
51. TVC Division - Proposed 1 x 37.6m Bow string girder ROB in lieu of **LC No. 59** at km 74/600-700 on Angamaly - Kaduvetty Road in between Korattiangadi and Karukutty stations in SRR - ERS section.
52. TVC Division - Proposed ROB in lieu of **LC No.64B** (Angamali) @ km 80/12-13 on Kariyad - Mattur Raod in between Angamali and Alwaye stations in SRR - ERS section.
53. TVC Division - Proposed ROB in lieu of **LC No. 69 A** (Vaduthula) @ Km 101/10-11 on Ernakulam - Chittur Road in between Idappalli and Ernakulam Town stations in SRR - ERS section.

54. TVC Division - Proposed ROB in lieu of **L.C. No. 71** (Idapalli) @ km.102/13-14 on Ernakulam - Chittur Road in between Idapalli and Ernakulam Town stations in SRR - ERS section.
55. TVC Division - Proposed 1 x 25 m PSC Box girder ROB in lieu of **L.C.No.73** (Pullepady) @ km 105/5-6 on Pullepady - Thammanam Road in between ERS - KYJ stations in SRR - ERS section.
56. TVC Division - Proposed ROB in lieu of **L.C. No. 76T** (Tirunettur) @ km108/6-7 on Cochin Corporation Road in between Ernakulam and Tirunettur stations in ERS - ALLP section.
57. TVC Division - Proposed 1 x 30 m & 2X20m PSC Box girder ROB in lieu of **LC No.541** (Mayyanad - SP.Gate) @ km 156/8-9 on Quilon Corporation Road in between Quilon and Mayyanad stations in QLN - TVC section.
58. TVC Division - Proposed 1 x 3 m PSC Box girder ROB in lieu of **LC No.575A** (Kazhakkootam) @ km 205/500-600 between Murukampuzha and Kazhakkuttam stations in QLN - TVC section.
59. TVC Division - Proposed 1 x 34.1m PSC Box, 1x19.43m PSC slab, 1X10.10 PSC slab ROB in lieu of **LC No.578** (Trivandrum) @ km 217/300-400 between Kochuveli - Trivandrum Pettah stations in QLN - TVC section.

Para: 14 E) (ii) Road Over Bridges and Road Under Bridges on Deposit terms for outsiders:

a) Works completed:

i) No. of bridges: **1** (one)

1. SA Divn - JTJ-ED sec - ROB in lieu of LC No: 116 at km 354/32-34 (Span 2x35.00m - PSC Box Girder).

b) Works in Progress:

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

ii) Details:

1. SA Divn - Pro RUB at km 62/780 for INAM Karur Municipality in ED-TP section.

2. MDU Divn - RUB No: 1349A (1x4.50m RCB) at km 445/500-600 on DG-MDU(BG) section.
3. MDU Divn - RUB No: 1582A (1x3.00m RCB) at km 563/600-700 on VPT-MEJ section.
4. MDU Divn - New RUB No: 1556B (1x4.50m RCB) at km 540/200-300 on VPT-MEJ section.
5. MDU Divn - New ROB at km 408/500 on TPJ-MNM section for NHAI.
6. MDU Divn - New ROB at km 7/6-7 on MDU-BDNK section for NHAI.
7. MDU Divn - New ROB at km 6/100-200 on DG-POY section for NHAI.
8. MDU Divn - New ROB at km 6/200-300 on DG-POY section for NHAI.
9. TVC Divn - Pro ROB (1x35m) in lieu of **LC No: 68A** at km 97/12-13 in SRR-CHTS section
10. TVC Divn - Pro Additional lanes (1x32m) in exg **ROB No: 165A** at km 78/800-900 in SRR-CHTS section.

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

a) Works completed:

i) No. of bridges: **NIL**

b) Works in Progress:

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

ii) Details:

1. MDU Divn: Construction of new waterway Br. No:78-A (1x3.20m RCB) at km 38/100-200 under deposit for EE PWD/WRO ON MDU-BDNK section.
2. MDU Divn: Construction of new Br. No:174-A (2x6.10m RCC slab) at km 41/100-200 under deposit for PWD in MDU-MNM section.

15. Bridge Workshops (2008-09)

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	514.2	0
2	Fabrication of Steel works - otherthan Girders like Foot Over Bridges, Platform Shelters, Flood Light Towers, Tanks & Steel Cribs, etc.,	195	519.8	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.,	70	348.1	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	3374.2	0
5	Other items like Reconditioning of Sleepers, manufacture of Skids, Beaters and other Miscellaneous items, etc.,	0	925.3	0
6	(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	15
	(vii) Manufacture of RCC - Pre-cast Boxes - MG	0	0	0
	(viii) Manufacture of RCC - Pre-cast Boxes - BG	0	0	0
Total		265	5681.6	15

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 2008-2009.

(a) Through Renewals :

(Fig. in Track Kilometres)

Gauge				Primary		Secondary	
				Through Rail Renewal	Through Sleeper Renewal	Through Rail Renewal	Through Sleeper Renewal
Broad	..	..	..	226.46	144.44	32.58	31.81
Metre	..	..	..	0.00	0.00	0.80	1.10
Total	..	..	..	226.46	144.44	33.38	32.91

(b) Casual Renewals :

Gauge			Class	Rails (in Tonnes)		Sleepers (Numbers)		
			III			Wood	Metal	Concrete
								Total
Broad	..	..	I	6787.63	178	274	15090	15542
	..	..	II	2838.45	116	211	15626	15953
Metre	..	..	I	0.00	10	0	0	0
	..	..	II	34.12	260	298	197	755
Total	..	..	I	6787.63	178	274	15090	15542
	..	..	II	2872.57	376	509	15823	16708

(c) Points and Crossings Renewals :

Gauge								(in Nos.)
				1 in 16	1 in 12	1 in 8-1/2	Traps	Total
Broad	..	..	..	7	32	100	96	235
Metre	..	..	..	0	0	0	0	0
Total	..	..	..	7	32	100	96	235

(d) Renewal of wooden Specials on Bridges and under points and crossings :

Gauge				Bridge special (in cubic metres)	Points and X ings (in cubic metres)
Broad	..	..	..	109.26	38.63
Metre	..	..	..	8.36	9.36
Total	..	..	..	117.62	47.99

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

(in sets)

				Steel layouts Under points and Crossings		
				Broad Gauge	Metre Gauge	Total
				1	0	1

(f) Ballast put into the track during 2008-09 (in Thousands of cu.mts.)

Total Ballast collection during the year : 907 Total Ballast inserted during the year : 777

16.2—Track Materials used during the year 2008-09. The permanent way materials used during the year 2008-09 at the time of track renewals (excluding casual renewals).**(a) Rails**

(in track kilometres)

Gauge				60 kgs.	52 kgs.	90 lbs.	75 lbs.	60 lbs.	50 lbs.	Total
Broad	..	..	..	122.25	133.54	3.25	0.00	0.00	0.00	259.04
Metre	..	..	..	0.00	0.00	0.80	0.00	0.00	0.00	0.80
Total	..	..	..	122.25	133.54	4.05	0.00	0.00	0.00	259.84

(b) Sleepers

(in track kilometres)

Gauge				Concrete	Steel	CST-9	Wooden	others	Total
Broad	..	..	..	159.70	0.00	16.55	0.00	0.00	176.25
Metre	..	..	..	0.00	0.00	1.10	0.00	0.00	1.10
Total	..	..	..	159.70	0.00	17.65	0.00	0.00	177.35

(c) Composite wooden blocks and converted sleepers 2007-08 :

(in Nos.)

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

16.3-Materials in the track 2008-09-(Running Track) :**(a) Rails**

(in Track Kilometres)

Gauge	60 Kg.	52 kg.	90 lbs.	75 lbs	60 lbs.	50 lbs.	others	Total
BG ..	910	4411	127	0	0	0	0	5448
MG ..	0	23	397	460	350	19	22	1271
Total ..	910	4434	524	460	350	19	22	6719

(b) Sleepers

(in Track Kilometres)

Gauge	Concrete	Steel	CST-9	Wooden	Others	Total
Broad	5341	20	72	7	8	5448
Metre	162	68	938	81	22	1271
Total	5503	88	1010	88	30	6719

(c) Turnouts

	1 : 16		1 : 12		1 : 8.5		Total	
	BG	MG	BG	MG	BG	MG	BG	MG
Wooden ..	11	0	170	154	36	104	217	258
Steel ..	0	0	18	61	7	4	25	65
Concrete ..	41	0	2208	0	895	0	3144	0
Total ..	52	0	2396	215	938	108	3386	323

16.4.-Welding of Rail Joints :**(a) New Track Welded :** Total length of track on which rail joints was done during the year 2008-09.

(Figures in Track Kms.)

Gauge	Total No. of Joints welded
Broad + Metre	16,405

(b) Total Welded Track :

Total length of welded track as on 31st March 2009

(Figures in Track Kms.)

Gauge	Short Welded Panels	Long Welded Rails/Continuous Welded Rails	Total
Broad ..	962	4386	5348
Metre ..	624	330	954
Total ..	1586	4716	6302

(c) Flash Butt Welding Plant :

The work done at the Flash Butt Welding Plant in the Railway 2008-09.

Plant at	Number of joints Welded				Total No. of joints welded	Track Kms.	Average cost per joints Rs.
	60 Kgs.	52 Kgs.	90 lbs	7 lbs			
Arakkonam	9,783	9,388	0	0	19,171	244.23	2,569

16.5-Speed Restriction :**(a) Speed Restrictions in force on 31st March 2009 due to poor condition of track :-**

(in Kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2009	0.00	41.80	41.80

(b) Speed Restriction in force as on 31st March 2009 due to reasons other than the above :-**(i) For trains with 100 kmph. speed**

As on	Broad Gauge	Metre Gauge	Total
31-3-2009	531.71	0.00	531.71

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

As on	Broad Gauge	Metre Gauge	Total
31-3-2009	13.16	0.00	13.16

17. Block Renewals

Renewals of the following track kilometres were carried during 2008-09:-

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

Division	Broad Gauge	Metre Gauge
Chennai ..	61.45	0.00
Salem ..	62.74	0.80
Palghat ..	50.56	0.00
Trivandrum ..	66.19	0.00
Tiruchirappalli ..	14.72	0.00
Madurai ..	3.38	0.00
Total ..	259.04	0.80

(ii) Through sleeper renewals (Primary & Secondary)

Division	Broad Gauge	Metre Gauge
Chennai	48.91	0.00
Salem	50.02	1.10
Palghat	45.23	0.00
Tiruvandrum	4.54	0.00
Tiruchchirappalli	14.70	0.00
Madurai	12.85	0.00
Total	176.25	1.10

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

Sl. No.	Division	Station-Section particulars	Approximate cost of damages (Rs. in Lakhs)
1.	MAS	CGL-Section at ACK	1.40
2.	PGT	Nil	
3.	TVC	Nil	
4.	SA	Nil	
5.	TPJ	1. Cause way at km. 396/600 between TRB and GOC stations in MV-TPJ section on 24.11.2008.	0
		2. Breaches on Track between TVR-PKT section in MV-KKDI on 18-11-2008.	0
		3. Breaches on Track at Km. 84/000 to 101/000 between AMM and MTT stations from 24-11-2008 to 30-11-2008.	30.77
6.	MDU	Nil	
7.	CN/MS	Nil	
8.	MTP	Nil	

19. Staff Amenities

Sl. No.	Division	Station	Name of Works	Estimate (cost in lakhs)
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I. Improvements to Water Supply :**(A) Works Completed :—**

(i) Works costing more than Rs. 5 lakhs each.—

1.	MAS	TMB/MKK: Provision of OHT at MKK PER: Improvements of water supply at Rly. Qrs. Pananthope colony & PER colony AJJ/TRT : High level water tank constructed at TRT.	7.99 7.00 7.50
2.	SA	SA: Provision of OHT & GLR	35.00
3.	PGT	MAQ: Augmentation of water supply to make up water scarcity.	5.04
4.	TVC	QLN: Improvements to water supply QLN: Provision of tube well	29.89 6.99
5.	TPJ	nil	
6.	Madurai	nil	
7.	CN/MS	nil	
8.	MTP	nil	

Sl. No.	Division	Station	Name of Works	Estimate (cost in lakhs)
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ii) Works costing less than Rs. 5 lakhs each.

1.	MAS	MS: Improvements of water arrangements at qrs. No. 275 & 276. RPF office at MS/Hostel RPF & MS retiring room etc.,	1.00
2.	SA	SUU: Provision of OHT 5000 lits. Capacity.	3.94
3.	PGT	nil	
4.	TVC	nil	
5.	TPJ	nil	
6.	MDU	nil	
7.	CN/MS	nil	
8.	MTP	nil	

(A) Works in Progress :—

i) Works costing more than Rs. 5 lakhs each

1.	MAS	PWQ: Improvements of water supply at Ayanavaram Rly. qrs. AJJ: Improvements of water supply at AJJ Rly.qrs. TBM/SP Supply of drinking water at Qrs. AJJ: High level water tank constructed at AJJ.	50.00 15.00 16.00 7.50
2.	SA	SA Dn. Provision of drinking water facilities at goods shed at SA, SAMT, ED, JGU, PLMD, & CBF.	50.00
3.	PGT	Nil	
4.	TVC	ALLP: Repairs to water hydrants NCJ sub-division: Provision of bore wells 5 nos, deepening of existing wells at CAPE, NCJ & PASA. ERS Coaching Complex - Watering arrangements by laying 200mm dia pipe from Muvatupuzha river near Piravarm Road station. CGV, ETM, TRVL - Improvements to water supply arrangements.	9.33 29.00 806.00 24.00
5.	TPJ	Kallukuzhi colony - Replacement of corroded pipe lines. GOC: Replacement of pipe lines in colony to ensure uniform distribution of water supply, 'C' type 1300 & 'F' type 500. NGT & NCR Augmentation of water supply at NGT, NCR TPJ colony- Replacement of damaged and heavily corroded CI tank and water pipe line at Kallukuzhi. TPJ-KG-RPSF colony construction of 2.25 KL RCC over head tank in lieu of corroded MS overhead tank.	41.00 64.00 15.00 30.00 29.00
6.	MDU	nil	
7.	CN/MS	nil	
8.	MTP	nil	

Sl. No.	Division	Station	Name of Works	Estimate (cost in lakhs)
(ii) Works costing less than Rs. 5 lakhs.—				
1.	MAS	PER	Improvements of watering arrangements at RLY.colony.	3.00
2.	SA	BQI	Provision of GLR including treatments plant.	3.94
		MYU, PGN, & KRR	Provision of watering arrangements to S/qrs. and station building. KRR- Provision of pipe line, sintex OHT over rails staging and electrical pump and renewal of corroded pipe line to staff quarters and station.	4.99
		PTJ	Repairs to drinking water pipe line in porter line and provision water pipe upstairs of Golf Link area.	4.70
		SUU	Provision of OHT 5000 lits. Capacity.	3.94
3.	PGT	SRR	Water disinfection unit	3.96
		SRR	Renewal of corroded pipe line in the colony.	4.44
4.	TVC	nil		
5.	TPJ	nil		
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

II - Improvements to Sanitation

(A) Work Completed :—

i) Works costing more than Rs. 5 lakhs each.

1.	MAS	PWQ	Improvements to internal and external sewage system in PWQ colony.	165.00
		PER	Improvements to internal and external sewage system in PER & PT colony.	30.00
		JTJ	Improvements to under ground sewage system.	10.00
2.	SA	nil		
3.	PGT	PGT	Repairs to open drain in Rly. Colony	58.00
4.	TVC	nil		
5.	TPJ	GOC	Workshop renovation and reconstruction of dilapidated toilets in various shops.	28.00
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

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

1.	MAS	Zone C	Improvements to sewage system at TVT qrs.	2.00
		PER	Improvements to sewage system	2.00
2.	SA	MTP	Repairs to under ground seware lines	4.93
3.	PGT	MAQ	Improvements to ORH including provision of AC in suite 2 A.	3.65
		SRR	Replacing perished wooden bath/ toilet doors with PVC.	3.20
4.	TVC	nil		
5.	TPJ	nil		
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

Sl. No.	Division	Station	Name of Works	Estimate (cost in lakhs)
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(B) Work in Progress :—

i) Works costing more than Rs. 5 lakhs each.

1.	MAS	AJJ	Improvements to drainage system in AJJ colony.	7.50
		TRT	Improvements to drainage system in TRT colony.	7.50
2.	SA	BQI	Repairs to storm water drain to colony.	5.07
3.	PGT	MAQ	Replacement of sewage line with PVC.	49.68
		MAQ	Renewal of U/G sewage pipes & additional manholes.	34.70
4.	TVC	TVC Dn.	Improvements to drainage arrangements to Railway colonies.	18.00
5.	TPJ	nil		
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

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

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

III - Other Staff Amenity Works

(A) Works Completed :—

i) Works costing more than Rs. 5 lakhs each.

1.	MAS	PWQ	Ayaanavaram maintenance of repair works for flooring works phase II.	28.95
		PER	Perambur repair works of staff qrs.	75.00
		TVT	Zonal work repairs to staf qrs.	13.00
		RPM	Zonal work repairs to staf qrs.	12.00
2.	SA	SA	Improvements to staff quarters by providing steel rafters in place of wooden rafters (Type I-50 units).	21.00
		SA	Improvements to staff quarters by providing steel rafters in place of wooden rafters (Type II-50 units).	29.00
		PTJ	Reconstruction of Railway I nstitute (CE/OL).	10.00
		UAM	Renewal of perished wooden doors in staff qrs.	30.00
		ONR	Renewal of perished wooden doors in staff qrs.	30.00

Sl. No.	Division	Station	Name of Works	Estimate (cost in lakhs)
3.	PGT		MAQ: rest room for track machine staff.	6.97
			KNKD: Provision of DG set	5.38
			MAQ: Proposed pathway to both sides of stabling line.	13.30
			SRR: Repairs to colony roads	49.61
4.	TVC		nil	
5.	TPJ		TPGY-Retiling of staff quarters 60 units in QRS No. 4/1-16, 6/A-P, 10/A-B, 12/A-P, 12/A-B & 11/A-J (2700sqm).	12.00
			TPJ- Replacement of Incandescent lamp fitting by FL fitting 4'40W lamps in kitchens of staff Qrs. Of various types.	22.00
			GOC: Improvements to flooring, plastering toilet & bath of D type-II qrs. 96 units under corporate welfare plan.	30.00
			TPJ Dn. - Replacements of Incandescent lamp fitting by FL fitting 4'40W lamps in kitchens of staff qrs.	22.00
			VRI - Improvements to kitchen under sanitary works in VRI type I and improvements to front verndah in type I & II.	29.00
6.	MDU		MDU: P.way sec. Renewal of all damaged wooden doors and windows in Type I&II staff quarters at MDU, USLP, TE, BDNK, Madurai Dn. Provision of doors at the extended verandha in all type - I qrs.	10.02
			Madurai Jn. Provision of Almirah/ cupboard to staff qrs. type-I & II.	9.93
				5.35
7.	CNMS		nil	
8.	MTP		nil	

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

1.	MAS		nil	
2.	SA		BQI: Urgent repairs to road (under Zonal contract).	3.62
3.	PGT		MAQ: Improvements to ORH including provision of AC in suite 2 A.	3.65
			SRR: Replacing perished wooden bath/ toilet doors with PVC.	3.20
4.	TVC		nil	
5.	TPJ		nil	
6.	MDU		nil	
7.	CNMS		nil	
8.	MTP		nil	

(B) Work in Progress :—

i) Works costing more than Rs. 5 lakhs each.

1.	MAS		PWQ: Water storage arrangements GLR for block No.418 & 419 at Ayanavaram.	22.72
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Sl. No.	Division	Station	Name of Works	Estimate (cost in lakhs)
			Repair and maintenance of staff qrs. PWQ colony.	26.63
			TRT: Maintenance and repairs to staff qrs.	40.00
			PWQ: Brightning of Rly. Qrs.	63.10
			AVD: Provision of toilet	29.57
2.	SA		ONR: Reroofing of Type -I Qrs- 30 units.	30.00
			ED: Construction of additional 2 suits in 1st floor of ORH.	10.00
			ED: Replacements of perished wooden rafters and repairs with steel truss and tubular reaper support for exg. Mangalore tiled.	30.00
			ED: Provision of feeder pillar type supply arrangements for the west colony area.	29.00
			UAM: Reroofing of type-I qrs. 30 units.	28.00
			PTJ: Reconstruction of collapsed exg. Auditorium for the Railway Insitute.	9.98
			SA: Construction of additional supervisory rest house	9.90
			PTJ: Provision of individual storage water tank at staff quarters (400 nos.) and augmentation of water supply by drilling three more borewells and pipe line arrangements.	49.99
			PTJ: Constrction of OHT 90000 lits. capacity and relplacement of pipeline grid at 20 block area.	49.5
3.	PGT		PGT: Repairs Colony roads	107.00
			PGT: Re-roofing of type II qrs.- 40 units.	39.90
			PGT: Rebuilding of staff qrs.- Type - V (1 unit).	26.60
			SRR: Brightening up of service & residential buildings.	24.82
			SRR: Rest room for TTEs & Track machine staff, Barracks for RPF & Subordinate dormitory.	61.61
			MAQ: Rest room for TTE's with 20 beds.	53.09
			MAQ: Construction of subordinate Rest house.	9.96
			MAQ: Combined crew booking centre	20.0
4.	TVC		Rerpairs to staff quarters at Thampanoor & Poojappura.	55.48
			Rerpairs to staff quarters at Poojappura.	76.61
5.	TPJ		GOC: TPJ Dn. - Rewring and replacement of exg. Staff quarters Type-I 815 units and Type-II 342 units at Ponmalai.	97.00
			TPGY-Retiling of staff quarters 60 units in QRS No. 4/1-16, 6/A-P, 10/A-B, 12/A-P, 12/A-B & 11/A-J (2700sqm.).	12.00

Sl. No.	Divi- sion	Station	Name of Works	Estimate (cost in lakhs)
			Golden Rock- Rewiring of staff quarters Type IV 474 units (F type) and replacements of service connections.	45.00
			Tiruchchirappalli Jn. - Construction of Holiday Home for Group C and D staff - 4 suites.	10.00
			TPJ-DG road-colony- Improvements to the flooring of old type IV qrs and park and underground sewage.	30.00
			Kallukuzhi colony-Proposed sloped RCC roof in lieu of the existing damaged and perished mangalore tiled roof.	29.00
			TPJ-KG- Retiling of Mangalore tiled roof and renewal of damaged rafters, doors, Under corporate welfare plan.	30.00
			TNM - Construction of Holiday Home for C & D staff - 4 suites.	10.00
			VM - Improvements to staff qrs.- replacing damaged bath doors, provision of new drainage outlets.	30.00
			VRI- Colony Improvements to backyard door, bath and toilet door in various staff qrs. in VRI colony - under corporate welfare plan.	30.00
6.	MDU	nil		
7.	CNMS	nil		
8.	MTP	nil		

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

1.	MAS	S.W.IV - improvements to toilets of type IV qrs. at Ayanavaram.	4.00
		S.W.IV - improvements to toilets of type IV qrs. at PER.	5.00
		TVT: Improvements and brightening of qrs at TVT.	1.00
		JTJ: Improvements to rest room at JTJ.	5.00
		MS: Improvements to car shed toilet at IG office/GRP/MP.	1.40
2.	SA	TPT: Retiling of staff quarters	3.53
3.	PGT	nil	
4.	TVC	nil	
5.	TPJ	nil	
6.	MDU	nil	
7.	CNMS		
8.	MTP	nil	

IV - Hospitals and Health Units

(A) Works Completed :—

i) Works costing more than Rs. 5 lakhs each.

1.	MAS	nil
2.	SA	nil
3.	PGT	nil
4.	TVC	nil

Sl. No.	Divi- sion	Station	Name of Works	Estimate (cost in lakhs)
5.	TPJ		TNM: Modernisation of the health unit with improvements to walls and flooring, toilets at TNM.	6.00
6.	Madurai	nil		
7.	CNMS	nil		
8.	MTP	nil		
ii) Works costing less than Rs. 5 lakhs each.				
1.	MAS	AJJ: Improvements to Hospital		2.00
2.	SA	nil		
3.	PGT	nil		
4.	TVC	nil		
5.	TPJ	nil		
6.	MDU	nil		
7.	CNMS	nil		
8.	MTP	nil		

(B) Work in Progress :—

i) Works costing more than Rs. 5 lakhs each.

1.	MAS	nil	
2.	SA	ED: Reparis to subdivisional hospital	19.24
3.	PGT	nil	
4.	TVC	Tiruvandrum Pettah - Provision of ICU in space near operation theater (Four bed).	9.90
5.	TPJ	nil	
6.	MDU	MDU Jn. Proposed extension of OP block and construction of separate accommodation for special clinic in Railway Hospital Tn/3/8/5.	9.90
		MDU JN. Construction of separate accommodation for special clinic etc., in Railway hospital.	9.90
7.	CN/MS	PER: New Railway Hospital Phase-I	3125
		PER: New Railway Hospital Phase-II	5000
8.	MTP	nil	

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

1.	MAS	TVT: Development health unit	1.00
		JTJ: Improvements in health unit	5.00
2.	Salem	nil	
3.	Palghat	MAQ: Proposed improvements to health units.	4.90
4.	TVC	nil	
5.	TPJ	nil	
6.	MDU	nil	
7.	CNMS	nil	
8.	MTP	nil	

V - School and Hostel

(A) Works Completed :—

i) Works costing more than Rs. 5 lakhs each.

1.	MAS	AJJ: Science lab constructed	10.00
		PWQ: Repairs to damaged drain near higher secondary school.	22.78
		Per: Repairs to PER higher secondary school.	11.00

Sl. No.	Division	Station	Name of Works	Estimate (cost in lakhs)
			MS: Repairs to school & Hostel	10.00
2.	SA	nil		
3.	PGT	nil		
4.	TVC	nil		
5.	TPJ	nil		
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

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

1.	MAS	nil		
2.	SA	PTJ: Repairs to Railway mixed high school.	4.20	
3.	PGT	nil		
4.	TVC	nil		
5.	TPJ	nil		
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

(B) Work in Progress :—

i) Works costing more than Rs. 5 lakhs each.

1.	MAS	nil		
2.	SA	nil		
3.	PGT	PGT: Leak proofing of flat roof of Rly.school /PGT.	13.00	
4.	TVC	Nagercoil - Sub-ordinates rest room in first floor of station building.	9.90	
5.	TPJ	GOC: Improvements to operation theatre-Phase -II.	10.00	
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

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

1.	MAS	AJJ: Improvements to school	1.00	
2.	SA	nil		
3.	PGT	nil		
4.	TVC	nil		
5.	TPJ	nil		
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

VI - Running Room

(A) Works Completed :—

i) Works costing more than Rs. 5 lakhs each.

1.	MAS	nil		
2.	SA	MTP: New mini running room	22.00	
3.	PGT	nil		
4.	TVC	nil		
5.	TPJ	nil		

Sl. No.	Division	Station	Name of Works	Estimate (cost in lakhs)
6.	MDU	nil		
7.	CN/MS	TEN: Running Room	62.25	
8.	MTP	nil		

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

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

(B) Work in Progress :—

i) Works costing more than Rs. 5 lakhs each.

1.	MAS	AVD: Construction of 2500 brightening of running room.	22.23	
2.	SA	TPT: Construction of first floor in the running room.	10.18	
3.	PGT	nil		
4.	TVC	NCJ: Construction of new running room.	57.00	
		TVC Dn. Improvements to hot water arrangements in the running rooms by providing solar water heaters.	10.00	
		Improvements to ventilation & lighting arrangements in the running bungalows and rest houses.	9.90	
5.	TPJ	nil		
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

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

1.	MAS	TVT: Brighting of running room	2.00	
2.	SA	nil		
3.	PGT	KNKD: Provision of dormitory by converting exg. Good shed	1.98	
4.	TVC	nil		
5.	TPJ	nil		
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

VII - MISC. WORKS

(A) Works Completed :—

i) Works costing more than Rs. 5 lakhs each.

1.	MAS	Miscellaneous works at TRT	13.00	
2.	SA	nil		
3.	PGT	nil		

Sl. No.	Division	Station	Name of Works	Estimate (cost in lakhs)
4.	TVC	nil		
5.	TPJ		Ponmalai: Construction of Ladies Rest Room in prodection Diesel and C&W wings of central work shop.	15.00
			TPJ: Upgradation and moderni-sation of staff canteen in Divisional office complex.	10.00
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

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

1.	MAS	nil		
2.	SA		KRR: Improvements and repairs to officers rest house.	4.99
			TPT: Improvements to Railway Institute.	4.99
			ED: Toilets for crew bokking centre	2.91
			ED: Improvements to Dormitory for ELS/ED.	2.09
			ED: Provision of scooter stand for 50 scooters nos at DSL shed.	4.87
			PTJ: Repairs to colony roads	4.98
3.	PGT	nil		
4.	TVC	nil		
5.	TPJ	nil		
6.	MDU	nil		
7.	CN/MS	nil		
8.	MTP	nil		

(B) Work in Progress :-

i) Works costing more than Rs. 5 lakhs each.

1.	MAS		AJJ: Miscellaneous works at AJJ	6.00
			SP: Brightining of staff qrs.	37.28
2.	SA		PTJ: Barracks for RPF	75.00
3.	PGT		NIL, VNB & AAM: Replacement signaling with color light signaling.	41.64
4.	TVC		ERS: Construction of Railway Institute.	9.90
			Improvements to Thampanoor Railway Institute.	9.90
			Ernakulam - Construction of Railway institute cum womens welfare organisation with creche facilities, children park, play ground.	9.90
			TVC Dn. Replacement of age old ceiling fans/provision of additional fans in quarters.	27.00
5.	TPJ		TP&VRI: Construction of community hall at TP&VRI.	12.00
6.	MDU	nil		

Sl. No.	Division	Station	Name of Works	Estimate (cost in lakhs)
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7.	CN/MS	nil		
8.	MTP	nil		

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

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

20. Level Crossing

1.	No. of level crossing category-wise (As on 31-03-2009)	
	Special Class	430
	'A' Class	171
	'B' Class	60
	'C' Class	1093
	'C' Class unmanned	1195
	Total	2949

2. No. of level crossings manned during 2008-09

a)	Accident prone from ACSPP(b)/DF4/ Safety Fund.	30
b)	From Railway Safety Works fund (20% Segment)	Nil
c)	At State Government's Cost (Reimbursable From 80% Segment of RSWF)	Nil
d)	Others (MPLADS)	Nil
	Total	30

3.	No. of level crossings were additional men were provided without upgrading during 2008-09.	Nil
4.	No. of level crossings upgraded during 2008-09	Nil
5.	No. of level crossings provided with Lifting Barriers during 2008-09.	Nil
	a) Interlocked level crossings.	29
	b) Non-interlocked level crossings.	14
	Total	43

6.	No. of level crossings where traffic census was taken in 2008-09 and action taken in such cases.	662
7.	No. of level crossings downgraded during 2008-09	Nil
8.	No. of level crossings De-manned/Closed during 2008-09.	15

21. Statistics of Rail Usage

(a) Rail renewal carried over on various sections during the year 2008-2009

Name of the Section	UP/DN/ SL	Year of sanction	Sanctioned Length	Exg. Rail Section	Rail Renewal done with	Length Renewed during the year	Remarks
BROADGAUGE							
ROUTE-'A'							
Chennai Central-Gudur	Yard	2007-08	2.60	52kg/90R	52 kg II	1.30	..
Chennai Central-Gudur	Yard	2008-09	0.70	52kg	52 kg	0.70	..
ROUTE-'B'							
Chennai Central-Arakkonam	Up/Slow	2004-05	2.00	52 kg	60 kg	0.20	..
Chennai Central-Arakkonam	UP/DN/Slow	2004-05	8.00	52 kg	52 kg	0.63	..
Chennai Central-Arakkonam	Yard	2005-06	0.59	52kg/90R	52kg	0.59	..
Arakkonam - Jolarpettai	Yard	2004-05	1.50	90R/90BH	52 kg II	1.50	..
Arakkonam - Jolarpettai	DN	2006-07	6.59	52 kg	60 kg	1.30	..
Arakkonam - Jolarpettai	UP	2006-07	5.00	52 kg	52 kg	1.30	..
Arakkonam - Jolarpettai	UP/DN	2007-08	13.30	52 kg	60 kg	4.66	..
Arakkonam - Jolarpettai	DN	2007-08	18.95	60 kg	60 kg	4.97	..
Arakkonam - Jolarpettai	DN	2004-05	0.90	52 kg	52 kg	0.90	..
Arakkonam - Jolarpettai	UP	2004-05	1.00	52 kg	52 kg	1.40	..
Arakkonam - Jolarpettai	Yard	2007-08	0.40	80 BH	52 kg II	0.40	..
Arakkonam - Jolarpettai	Yard	2007-08	0.40	80 BH	52 kg II	0.40	..
Arakkonam - Jolarpettai	UP/DN	2008-09	13.74	52 kg	60 kg	6.82	..
Arakkonam - Renigunta	DN	2006-07	0.46	52 kg	52 kg	0.46	..
Arakkonam - Renigunta	UP	2007-08	18.82	52 kg	60 kg	11.92	..
Arakkonam - Renigunta	DN	2007-08	19.80	52 kg	60 kg	15.80	..
Arakkonam - Renigunta	UP	2008-09	8.06	52 kg	60 kg	6.60	..
Jolarpettai - Erode	UP	2007-08	8.15	52 kg	60 kg	8.15	..
Jolarpettai - Erode	DN	2007-08	4.47	60 kg	60 kg	3.82	..
Jolarpettai - Erode	UP/DN	2008-09	4.17	60 kg	60 kg	4.17	..
Jolarpettai - Erode	UP	2006-07	0.47	60 kg	60 kg	0.47	..
Jolarpettai - Erode	DN	2006-07	0.50	60 kg	60 kg	0.50	..
Jolarpettai - Erode	Yard	2004-05	0.44	90 BH	52 kg II	0.53	..
Jolarpettai - Erode	UP	2008-09	13.20	52 kg	60 kg	13.20	..
Jolarpettai - Erode	DN	2008-09	3.56	52/60 kg	60 kg	2.86	..
Jolarpettai - Erode	DN	2008-09	0.50	60 kg	60 kg	0.50	..
Jolarpettai - Erode	Yard	2008-09	0.27	90 R	52 kg II	0.27	..
Erode - Irugur	DN	2008-09	12.14	52 kg	52 kg	13.19	..
Irugur - Coimbatore	SL	2005-06	0.80	52 kg	52 kg	0.80	..
Irugur - Coimbatore	Yard	2003-04	0.80	90R	52 kg II	0.80	..
Irugur - Coimbatore	SL	2006-07	0.50	52 kg	52 kg	0.50	..
Irugur - Coimbatore	Yard	2002-03	1.83	90R	52 kg II	1.53	..
Podanur - Shoranur	Yard	2002-03	2.35	90R	52 kg II	0.23	..
Podanur - Shoranur	UP/DN	2005-06	4.32	52 kg	52 kg	2.32	..
Podanur - Shoranur	A & B lines	2008-09	2.66	52 kg	52 kg	2.66	..
Podanur - Shoranur	DN	2007-08	0.54	52 kg	52 kg	0.55	..
Podanur - Shoranur	DN	2007-08	0.55	52 kg	52 kg	0.55	..
Podanur - Shoranur	DN	2007-08	0.67	52 kg	52 kg	0.67	..
Podanur - Shoranur	DN	2007-08	0.68	52 kg	52 kg	0.68	..
Podanur - Shoranur	DN	2007-08	0.64	52 kg	52 kg	0.64	..
Podanur - Shoranur	DN	2008-09	0.50	52 kg	52 kg	0.66	..
Podanur - Shoranur	DN	2008-09	0.50	52 kg	52 kg	0.50	..
Podanur - Shoranur	DN	2006-07	0.50	52 kg	52 kg	0.60	..
Podanur - Shoranur	DN	2006-07	0.50	52 kg	52 kg	0.50	..
Podanur - Shoranur	DN	2006-07	0.50	52 kg	52 kg	0.51	..
Podanur - Shoranur	DN	2006-07	0.50	52 kg	52 kg	0.50	..
Podanur - Shoranur	DN	2006-07	0.50	52 kg	52 kg	0.60	..

Name of the Section	UP/DN/ SL	Year of sanction	Sanctioned Length	Exg. Rail Section	Rail Renewal done with	Length Renewed during the year	Remarks	
Podanur - Shoranur	..	DN	2007-08	0.49	52 kg	52 kg	0.49	..
Podanur - Shoranur	..	DN	2007-08	0.49	52 kg	52 kg	0.50	..
Podanur - Shoranur	..	DN	2007-08	0.40	52 kg	52 kg	0.40	..
Podanur - Shoranur	..	DN	2007-08	0.49	52 kg	52 kg	0.49	..
Podanur - Shoranur	..	DN	2007-08	0.49	52 kg	52 kg	0.49	..
Podanur - Shoranur	..	DN	2007-08	0.49	52 kg	52 kg	0.49	..
Podanur - Shoranur	..	DN	2007-08	0.40	52 kg	52 kg	0.40	..
Podanur - Shoranur	..	DN	2008-09	13.96	52 kg	52 kg	13.96	..
Podanur - Shoranur	..	Yard	2008-09	3.10	90 R	52 kg II	3.11	..
Shoranur - Ernakulam	..	Yard	2005-06	5.72	90R/ 90BH	52 kg II/ 90R II	3.11	..
Shoranur - Ernakulam	..	DN	2005-06	28.98	52 kg	52 kg	4.00	..
Shoranur - Ernakulam	..	UP/DN	2006-07	5.26	52 kg	52 kg	0.90	..
Shoranur - Ernakulam	..	UP/DN	2007-08	12.80	52 kg	52 kg	4.89	..
Shoranur - Ernakulam	..	DN	2003-04	0.75	52 kg	52 kg	0.75	..
Shoranur - Ernakulam	..	DN	2007-08	0.39	52 kg	52 kg	0.46	..
Villupuram - Tiruchchirappalli	..	Yard	2007-08	2.50	90R	52 kg II	2.35	..
Villupuram - Tiruchchirappalli	..	Yard	2008-09	1.28	90R	52 kg II	1.28	..
Villupuram - Tiruchchirappalli	..	Yard	2008-09	0.70	90R	52 kg	0.32	..
ROUTE-'D' Special								
—Nil—								
ROUTE-'D'								
Erode - Tiruchchirappalli	..	SL	2007-08	10.27	90R	52 kg	10.36	..
Karur - Dindigul	..	SL	2008-09	1.10	52 kg	52 kg	1.10	..
Shoranur - Mangalore	..	Yard	2007-08	0.40	90R	52 kg II	0.40	..
Shoranur - Mangalore	..	DN	2008-09	0.30	52 kg	52 kg	0.30	..
Shoranur - Mangalore..	..	DN	2008-09	0.30	52 kg	52 kg	0.26	..
Shoranur - Mangalore	..	DN	2008-09	0.30	52 kg	52 kg	0.46	..
Shoranur - Mangalore..	..	DN	2008-09	3.83	52 kg	52 kg	3.84	..
Mangalore - Panambur..	..	SL	2007-08	0.49	52 kg	52 kg	0.49	..
Mangalore - Panambur..	..	SL	2008-09	1.12	52 kg	52 kg	1.12	..
Ernakulam - Trivandrum Central	..	Yard	2003-04	18.44	90R	52 kg II	1.35	..
Ernakulam - Trivandrum Central	..	UP/DN	2005-06	6.81	52 kg	52 kg	1.22	..
Ernakulam - Trivandrum Central	..	UP/DN	2007-08	14.86	52 kg	52 kg	2.16	..
ROUTE-'E' Special								
—Nil—								
ROUTE-E								
Shoranur - Nilambur Road	..	SL	2007-08	21.18	90R II	52 kg II	10.52	..
Mangalore - Panambur	..	Yard	2007-08	0.19	90R	52kg	0.19	..
Ernakulam - Cochin Harbour Teminus	..	Yard	2002-03	0.13	90R/ 75R	52 kg II/ 90R II	0.13	..
Trivandrum Central - Nagercoil	..	SL	2007-08	5.66	90 R	52 kg	3.66	..
Nagercoil - Tirunelveli	..	SL	2008-09	22.00	90 R	52 kg	21.55	..
Nagercoil - Tirunelveli	..	SL	2007-08	8.30	90 R	52 kg	8.15	..
Nagercoil - Kanniyakumari	..	SL	2007-08	14.49	90R	52kg	13.85	..
Villupuram - Pondicherry	..	SL	2008-09	9.97	52 kg II	52kg	10.67	..
Madurai - Vanchi Maniyachi	..	Yard	2005-06	3.40	90R	52 kg II	3.38	..
Meter Gauge								
ROUTE-Q	..	Nil						
ROUTE-R1	..	Nil						
ROUTE-R2	..	Nil						
ROUTE-R3	..	Nil						
ROUTE-S1	..	Nil						
ROUTE-S2	..	Nil						
ROUTE-S3	..	Nil						
Mettupalayam-Udagamandalam	..	SL	2005-06	1.80	50 R II	52kg II/90 R II	0.80	..
GMR—7								

21. (b) Average traffic in Gross Tonnes per running track kilometrage carried over on various sections during the year 2008-2009

(in millions)			
Section	Rail section	On section with ruling gradient upto 1 in 150	On section with ruling gradient steeper than 1 in 150
(1)	(2)	(3)	(4)
Broad Gauge			
Group-A			
Chennai Central	52/60 kg	31.81	-
Gummidipundi - (UP)			
Gummidipundi - Sullurupeta (UP)	52/60 kg	27.63	-
Sullurupeta - Gudur (UP)	52/60 kg	26.05	-
Chennai Central - Gummidipundi (DN)	52/60 kg	21.91	-
Gummidipundi - Sullurupeta (DN)	52/60 kg	17.72	-
Sullurupeta - Gudur (DN)	52/60 kg	16.15	-
Group-B			
Chennai Central-Tiruvallur (Up) Fast	52/60 kg.	33.52	..
Chennai Central-Tiruvallur (Dn.) Fast	52/60 kg.	41.67	..
Chennai Central-Tiruvallur (Up) Slow	52/60 kg.	14.42	..
Chennai Central-Tiruvallur (Dn.) Slow	52/60 kg.	14.42	..
Tiruvallur-Arakkonam (Up)	52/60 kg.	38.54	..
Tiruvallur-Arakkonam (Dn.)	52/60 kg.	46.69	..
Arakkonam-Katpadi (Up)	52/60 kg.	25.17	..
Arakkonam-Katpadi (Dn.)	52/60 kg.	42.11	..
Katpadi-Jolarpettai (Up)	52/60 kg.	25.13	..
Katpadi-Jolarpettai (Dn.)	52/60 kg.	41.33	..
Arakkonam-Tiruttani (Up)	52/60 kg.	34.69	..
Arakkonam-Tiruttani (Dn.)	52/60 kg.	22.66	..
Tiruttani-Renigunta (Up)	52/60 kg.	32.88	..
Tiruttani-Renigunta (Dn.)	52/60 kg.	20.85	..
Jolarpettai-Salem (Up)	52/60 kg.	..	20.31
Jolarpettai-Salem (Dn.)	52/60 kg.	..	32.04
Salem-Erode (Up)	52/60 kg.	..	20.65
Salem-Erode (Dn.)	52/60 kg.	..	26.43
Erode-Irur (Up.)	52/60 kg.	..	19.07
Erode-Irur (Dn.)	52/60 kg.	..	24.23
Irur-Coimbatore-Podanur (SL)	52/60 kg.	..	19.07
Irur-Podanur (SL)	52 kg.	..	19.07
Podanur-Palghat (Up)	52 kg.	..	16.58
Podanur-Palghat (Dn.)	52 kg.	..	20.02
Palghat-Shoranur (Up)	52 kg.	..	16.09

Section	Rail section	On section with ruling gradient upto 1 in 150	On section with ruling gradient steeper than 1 in 150
(1)	(2)	(3)	(4)
GROUP-B—(Concl'd.)			
Palghat-Shoranur (Dn.)	52 kg.	..	19.66
Shoranur—	52 kg.	..	15.97
Ernakulam (Up)			
Shoranur—	52 kg.	..	17.36
Ernakulam (Dn.)			
Chennai Beach—	60 kg.	19.92	..
Tambaram (Up-EMU)			
Chennai Beach—	60 kg.	19.92	..
Tambaram (Dn.-EMU)			
Tambaram—	60 kg.	5.02	..
Chengalpattu (Up-EMU)			
Tambaram—	52 kg.	5.02	..
Chengalpattu (Dn.-EMU)			
Chennai Beach—	52 kg.	19.63	
Chengalpattu			
Chengalpattu—	52 kg.	19.90	..
Melmaruvathur			
Melmaruvathur-Villupuram	52 kg.	19.90	
Villupuram—Tiruchchirappalli	52 kg.	20.56	..
(Chord)			
Tiruchchirappalli—Dindigul	52 kg.	13.46	..
Group -C			
Chennai Beach—	60 kg.	..	6.83
Velachery (UP)			
Chennai Beach—	60 kg.	..	6.83
Velachery (Dn.)			
Group-D Special			
-Nil-			
Group -D			
Erode-Tiruchchirappalli Fort	52 kg	-	11.71
Ernakulam - Quilon	52 kg	-	18.12
Quilon - Trivandrum	52 kg	-	9.86
Central (UP)			
Quilon - Trivandrum	52 kg	-	6.64
Central (DN)			
Ernakulam - Alleppey	52 kg	12.62	-
Alleppey - Kayankulam	52 kg	10.36	-
Shoranur -	52 kg	22.15	-
Calicut (UP + DN)			
Calicut -	52 kg	21.07	-
Cannanore (UP + DN)			
Cannanore -	52 kg	-	17.52
Mangalore (UP + DN)			
Mangalore - Thokkur	52 kg	-	6.47
Karur - Dindigul	52 kg	7.79	-
Dindigul - Madurai	52 kg	19.73	-
Madurai - Virudunagar	52 kg	14.90	-
Virudunagar -	52 kg	14.90	-
Vanchi Maniyachchi			
Mayiladuthurai -	52 kg	7.63	-
Kumbakonam			
Kumbakonam-Thanjavur	52 kg	7.63	-
Thanjavur -	52 kg	7.63	-
Tiruchchirappalli			

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

Group—E Special

-Nil-

Group 'E'

Walajah Road - Ranipet	80BH	-	-
Salem - Metur Dam	52/44.61 kg	-	20.21
Tiruchchirappalli Fort - Goods yard	52/44.61 kg	-	7.01
Coimbatore - Mettupalaiyam	52 kg/44.61	-	1.38
Palghat - Palghat Town	52 kg/44.61	-	1.57
Shoranur - Nilambur Road	52 kg/44.61	-	2.19
Ernakulam - Cochin Harbour Terminus	52 kg/44.61	-	-
Trivandrum Central - Nagercoil	52 kg/44.61	-	7.77
Nagarcoil - Tirunelveli	52 kg/44.61	-	8.25
Nagercoil - Kanniyakumari	52 kg/44.61	-	7.77
Tirunelveli - Vanchi Maniyachchi	52 kg/44.61	10.05	-
Vanchi Maniyachchi - Tuticorin	52 kg	6.10	-
Trichur - Guruvayur	44.61	2.94	-
Chengalpattu - Tirumalpur	52 kg	2.54	-
Tirumalpur - Arakkonam	52 kg	1.51	-
Villupuram - Pondicherry	52 kg	3.19	-
Vellore Cantonment - Katpadi	53 kg	-	0.36
Cuddalore Port - Vriddhachalam	52 kg	-	1.87
Vriddhachalam - Salem	52 kg	-	1.98
Virudunagar - Tenkasi	52 kg	2.45	-
Tiruchchirappalli - Karaikkudi - Manamadurai	52 kg	1.28	-
Thanjavur - Tiruvarur	52 kg	2.70	-
Madurai - Manamadurai	52 kg	1.41	-
Manamadurai - Rameswaram	52 kg	2.58	-
Tenkasi - Sengottai	52 kg	2.45	-
Tiruvarur-Nagore	52 kg	-	-
Tirunelveli - Tiruchendur	52 kg	-	0.62

Metre Gauge**Route-Q**

Tambaram-Villupuram	44.61 kg.	..	..
Kodaikanal Road-Madurai	44.61/37.13	..	..
Villupuram-Cuddalore	44.61/37.13	..	..
Cuddalore-Mayiladuthurai	44.61/37.13	..	..

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

Route-R 1

NIL

Route-R 2

Villupuram-Vellore Cantonment	37.13 kg.	..	..
Virudunagar-Manamadurai	37.13/29.76

Route-R 3

Dindigul-Pollachi	37.13/29.76	..	1.01
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Route-S1

Mayiladuturai-Tiruvarur	31.13/29.76	0.58	..
Tiruvarur-Tiruturaipundi	37.13/24.80	0.58	..
Tiruthuraipundi-Karaikkudi	37.13/29.76	0.44	..
Tenkasi-Sengottai	44.61/37.13	0.88	..
Sengottai-Punalur	44.61/37.13	..	1.07
Punalur-Quilon	44.61/37.13	..	..

Route-S 2

Pollachi-Palghat	29.76	..	0.79
Pollachi-Podanur-Coimbatore	37.13/29.76	..	0.61
Tirunelveli-Tenkasi	29.76	..	0.39

Route-S 3

Mettupalaiyam-Udagamandalam	24.80/29.76	..	0.24
Tiruturaipundi-Agastiyampalli	29.76	..	..
Madurai-Bodinayakkanur	29.76/24.80	..	0.15

22. Modernisation of Track Maintenance :

As part of Track Modernisation, Southern Railway has been in the forefront in deployment of machines for Track Laying and Maintenance activities. From the modest beginning made in 1975 with the introduction of 3 universal tie tamping machines and 4 portal cranes, the Track Machine fleet has grown over the three decades with 6 Duomatic Tamping Machines, 4 High output capacity CSM tamping machines, 1 High output Express Tamper, 4 Unimat Points & Crossings Tamping Machines, 1 Multi Purpose Tamper, 5 Ballast Cleaning Machines, 2 Shoulder Ballast Cleaning Machines, 3 Ballast Regulating Machines, 5 Dynamic Track Stabilisers, 2 Points & Crossing Laying Machines, 1 Track Relaying Train, 4 Utility Track vehicles, 1 Jumbo Vacuum Cleaner (VM170) and 4 Portal cranes.

Tamping of 5905 km was done by the machines during 2008-09 in the Shatabdhi and other high speed and high density routes on the Railway.

Track relaying for 103.979 km. by PQRS cranes and Track Relaying Train was also done during this year.

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

Ballast Collection.(lac cum)	9.07
Ballast insertion (lac cum)	7.77
Deep screening (km.)	439.93
USFD (km.)	13446

23. Stabilisation of Bad Banks

Formation treatment has been carried out in a total length of 19.702 km. during the year 2008-09.

24. Length of Tunnels

Length of Tunnels on Southern Railway as on 31st March 2009

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	102.70	1901	Unlined	Curve	
3	MDU	SCT-QLN	MG	3	693/4-5	86.30	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	Unlined	Curve	
8	SA	MTP-UAM	MG	3	12/3-5	83.52	1897	Unlined	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	Unlined	Curve	
14	SA	MTP-UAM	MG	9	17/10-11	30.48	1899	Unlined	Curve	
15	SA	MTP-UAM	MG	10	19/5-6	20.12	1899	Unlined	Curve	
16	SA	MTP-UAM	MG	11	19/11-12	62.48	1899	Unlined	St/Curve	
17	SA	MTP-UAM	MG	12	21/3-4	95.10	1897	Unlined	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	Unlined	Straight	
20	SA	MTP-UAM	MG	15	42/5-6	53.64	1907	Lined	Curve	
21	SA	MTP-UAM	MG	16	44/7-9	137.46	1908	Lined	St./Curve	
22	PGT	MAQ-PNMB	BG	4	8/8-9/5	589.63	1969	Lined	Sr./Curve	Important
23	PGT	SRR-MAQ	BG	1198A Dn	835/7-9	161.40	1905	Unlined	Curve	Important
24	PGT	SRR-MAQ-	BG	1198A Up	835/7-9	175.00	2003	Unlined	Curve	Important
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	256/15-257/3	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/LKO Letter No. : CBS/Imp. Br. & Tunnels dated : 05/11/1999.

SUMMARY

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

25. Details of Lineal Waterway

Divn.	Broad Gauge		Metre Gauge		Narrow Gauge		Total	
	2007-08	2008-09	2007-08	2008-09	2007-08	2008-09	2007-08	2008-09
Important ..	12,334.230	12,334.230	5,854.050	5,854.050	0.000	0.000	18,188.280	18,188.280
Major ..	29,248.970	29,510.560	9,842.120	9,621.410	0.000	0.000	39,091.090	39,131.970
Minor ..	22,532.882	22,928.876	8,437.444	8,106.054	0.000	0.000	30,970.326	31,034.930
Total ..	64,116.082	64,773.666	24,133.614	23,581.514	0.000	0.000	88,249.696	88,355.180

Note : Reasons for INCREASE/DECREASE over previous Year :

1. SA Divn. : Increased in Minor Bridges due to rebuilding of Br. No. 273 in ED-TP section & Strengthening of Br. No. 25 in SA-MTDM section.
2. SA Divn. : Decreased in Major Bridges by 1.8m. due to Strengthening of Sub-Structure at Br. No. 18 in SA-MTDM section.
3. MDU Dibn. : Due to rebuilt of exg. weak bridge Nos. T-28 in MEJ-TN section, Br. No. 1621 in VPT-MEJ section, Br. No. : 1514 in MDU-VPT section and Conversion of MG bridges in TEN-TCN section into BG.
4. PGT Divn. : Decrease due to closing of Br. 796 at km. 591/600-791.

26. Building Activities

(i) Statement showing number of projects, plinth area, estimated cost and value of work done during 2008-2009.

Sl. No.	Construction Stage	No. of Projects in Units	Total Plinth area in sq.mtrs.	Total floor area in sq. mtrs.	Estimate cost in lakhs. of Rs.	Value of the work done during the period (in lakhs of Rs.)	Value of the work done upto the end of the period (in lakhs of Rs.)
Residential buildings							
A.	Family Quarters						
	(a) In progress ..	563	38583.36	36862.24	2966.33	546.65	1035.50
	(b) Completed ..	124	7777.74	8658.30	752.88	69.59	177.23
B.	Non-family dwelling barracks etc.						
	(a) In progress ..	3	582.00	537.00	220.70	20.00	0.00
	(b) Completed ..	0	0	0	0	0	0
C.	Industrial buildings (Factories, Workshop etc.)						
	(a) In progress ..	0	0.00	0.00	0.00	0.00	0.00
	(b) Completed ..	0	0.00	0.00	0.00	0.00	0.00
D.	Commercial buildings (Ware houses, Workshops etc.)						
	(a) In progress ..	7	5661.78	4975.00	1247.00	259.76	259.76
	(b) Completed ..	11	1202.58	863.70	153.34	73.02	42.49
E.	Institutional buildings (School, Hospital, Dispensaries, Religious buildings etc.)						
	(a) In progress ..	2	0.00	0.00	40.00	0.00	0.00
	(b) Completed ..	2	110.00	100.00	16.00	10.00	10.00
F.	Other buildings						
	(a) In progress ..	4	866.00	0.00	82.00	10.00	10.00
	(b) Completed ..	3	920.30	874.00	95.14	8.00	71.83

(ii) Statement showing number of addition and alterations of projects, plinth area, estimated cost and value of work done during 2008-2009.

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 Rs.)	Value of the work done during the period (in lakhs of Rs.)	Value of the work done upto the end of the period (in lakhs of Rs.)
A.	Residential Buildings						
	Family Quarters						
	(a) In progress ..	0	0.00	0.00	0.00	0.00	0.00
	(b) Completed ..	10	392.00	272.00	48.00	48.00	48.00
B.	Non-family dwelling barracks etc.,						
	(a) In progress ..	0	0.00	0.00	0.00	0.00	0.00
	(b) Completed ..	2	36.00	33.00	2.40	2.40	2.40
C.	Industrial buildings (Factories, Workshop etc.)						
	(a) In progress ..	3	900.00	765.00	78.00	0.00	0.00
	(b) Completed ..	2	600.00	510.00	60.00	0.00	0.00
D.	Commercial buildings (Ware houses, Workshops etc)						
	(a) In progress ..	6	97.50	120.56	134.23	0.00	0.00
	(b) Completed ..	0	0.00	0.00	0.00	0.00	0.00
E.	Institutional buildings (School, Hospital, Dispensaries, Religious buildings etc.						
	(a) In progress ..	1	0.00	0.00	50.00	0.00	0.00
	(b) Completed ..	1	0.00	0.00	4.20	0.00	0.00
F.	Other buildings						
	(a) In progress ..	0	0.00	0.00	0.00	0.00	0.00
	(b) Completed ..	0	0.00	0.00	0.00	0.00	0.00

iii) Number of dwelling Units/staff quarters (permanent structures) constructed and under construction during 2008-09.

Sl. No.	Construction/Stage	Type I	Two rooms, units or Type II	Three months under Type III	Four rooms units or more Type IV	Type V / (OR) Five Rooms.	Other categories of barracks, bungalows etc.
(a)	Progress ..	157	189	57	31	10	2
(b)	Completed ..	4	26	19	2	1	0

27. Land Management

(a) Tree Plantation

Position for the year 2008-2009 is as under :

(in thousands)

(in Hectares)

Name of States	Total No. of trees surviving as on 01.4.2008	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 31.3.2009
Tamil Nadu						
Karnataka						
Kerala .. .. .		..	..	..	..	..
Andhra Pradesh						
Total	1,170.87	76.87	..	..	..	1,247.74

No. of shady trees planted on platform during the year 2008-2009.

(b) Encroachments—Position of Encroachments on Railway Land

(i) The position for the year 2008–2009 is as under :

Total No. of encroachments as on 31-3-2008	Total No. of encroachments			Total No. of cases pending with Estate Officer at the beginning of the year 31-3-2009	No. of cases filed during the year	No. of cases decided during the year	Total No. of cases pending with Estate Officer as on 31-3-2009
	Added	Removed	Total No. of encroachments as on 31-3-2009				
9,726	0	328	9,398	7,700	0	328	7,372

(ii) Special Measures taken to remove encroachments :

(c) Position of Licensing Agreement : (Nos. 2–2008–09)

Item	Total No. of cases	Total No. of cases agreements executed
a. G. M. F.		
(i) Railway employees ..	446	379
(ii) Outsiders ..	..	..
b. Commercial plots including vending by Comm. Deptt.	14	14
c. Engineering plots ..	128	119
d. Shopping plots (Engg. Deptt.)	29	23
e. Oil plots ..	74	51
f. Others ..	183	61
Total ..	874	647

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

Sl. No.	Description	Actual earnings for last three years			Remarks
		2006-07	2007-08	2008-09	
1.	Licensing of land for G. M. F.	0.93	3.29	2.39	
2.	Sale of Grass rights ..	0.02	0.00	0.00	
3.	Sale of Fruit rights ..	1.15	0.00	0.00	
4.	Sale of Fishery rights ..	0.00	0.00	0.00	
5.	Sale of matured green trees and dry trees.	52.57	81.13	102.98	
6.	Licensing of land for shopping purposes including tehbazari purposes.	1.05	1.34	50.74	
7.	Licensing of land for Oil Companies	472.45	338.12	379.1	
8.	Licensing of land for other purposes	286.45	459.67	2,662.34	
9.	Way leave facilities & easement rights both along road & rail approaches.	261.62	333.49	619.96	
10.	Other Misc. Earnings from Land	1,331.34	1,238.8	1,295.23	
	Total ..	2,407.58	2,455.84	5,112.74	

(e) Outstanding Dues (In thousand rupees)

2008–2009

Sl. No.	Item	Position as on 31–3–2008	Accretion during the year (+)	Clearance during the year (–)	Balance Outstanding as on 31–3–2009
1.	G. M. F. Scheme ..	85.510	287.760	286.363	86.907
	(a) Railway Staff ..	..	..	..	..
	(b) Outsiders ..	..	..	..	..
	(c) State Governments ..	..	..	..	..
2.	Temporary Commercial Licensing ..	285.000	3,157.490	3,360.490	82.000
3.	Outstanding due Oil Companies..	404.000	5,046.460	5,046.460	404.000
4.	Outstanding dues from Government Department ..	774.510	5,490.360	5,897.870	367.000
	Total ..	1,549.020	13,982.070	14,591.183	939.907

(f) Total Land Area (in Hectares)

2007–2008

Total Land area at the beginning of the year (in Hects).	Area of land acquired during the year	Area of land relin- quished during the year	Balance area of land at the end of year	Area of land under Active Use			G.M.F.	Any other use	Area of land lying vacant
				Under track structures and colonies etc.	Affore- station	Commercial licensing			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
25,540.33	25,540.33	20,010.93	2,709.00	304.58	65.52	2.43	2,296.69

28. Civil Engineering Assets

Railway	Plinth area of service building (in sq.m.)	Plinth area of residential buildings (in Sq. mts.)	Linear water way of bridges in mts.			Length over and under bridges in mts.				Tonnage of steel girders bridges (Tonne)	Tonnage of steel structures other than girder bridges (Tonnes)	Number of water Pumping points Nos.	Number of Sewerage treatment plant Nos.	Number of ballast quarries Nos.
			Major	Minor	Total	F.O.B.	R.O.B.	R.U.B.	Total in Mts.					
S.Rly.	16,60,994.86	13,10,896.62	45,605.62	20,300.98	65,906.6	6,303.93	6,001.54	1,220.18	13,525.65	22,835.48	16,927.70	200	51	6.00

Year	Division Name	Plinth area of service building (in sq.m.)	Plinth area of residential buildings (in Sq. mts.)	Linear water way of bridges in mts.			Length over and under bridges in mts.				Tonnage of steel girders bridges (Tonne)	Tonnage of steel structures other than girder bridges (Tonnes)	Number of water Pumping points Nos.	Number of Sewerage treatment plant Nos.	Number of ballast quarries Nos.
				Major	Minor	Total	F.O.B.	R.O.B.	R.U.B.	Total in Mts.					
2007-08	MAS	149453.96	178354.80	175.00	3359.00	3534.00	74.00	29.00	0.00	103.00	0.00	0.00	47	5	0.00
2008-09		550039.38	293438.87	23.00	610.00	633.00	3317.12	2500.71	38.00	5855.83	0.00	0.00	124	19	2.00
2007-08	SA	1034.00	199567.00	7032.60	5669.20	12701.80	345.80	257.99	62.49	666.28	2571.00	438.00	31	13	2.00
2008-09		103400.00	199567.00	7032.64	5669.16	12701.80	345.84	257.99	62.49	666.32	0.00	0.00	0	0	0.00
2007-08	PGT	249185.00	138696.00	7942.35	5882.84	13825.19	706.48	1014.03	120.40	1840.91	10450.83	3350.00	35	0	0.00
2008-09		269432.07	136145.00	13366.98	3013.77	16380.75	1287.13	1207.38	124.20	2618.71	6802.90	702.00	25	7	1.00
2007-08	TVC	125985.00	102204.00	8833.53	4337.50	13171.03	1067.00	1211.00	301.00	2579.00	9580.00	3650.00	12	0	0.00
2008-09		125985.00	102204.00	8833.53	4337.50	13171.03	1067.00	1211.00	301.00	2579.00	9580.00	3650.00	12	0	0.00
2007-08	TPJ	411293.96	457749.77	14019.19	2721.52	16740.71	682.99	98.07	658.66	1439.72	6452.58	12575.70	20	14	3.00
2008-09		411293.96	457749.77	16019.00	6113.00	22132.00	98.07	658.66	682.99	1439.72	6452.58	12575.70	20	14	3.00
2007-08	MDU	127206.00	126275.41	0.00	0.00	0.00	136.00	0.00	60.50	196.50	0.00	0.00	32	23	0.00
2008-09		199507.62	116626.72	0.00	0.00	0.00	156.45	165.80	0.00	322.25	0.00	0.00	19	11	0.00
2007-08	CE/CN/MS	812.20	350.00	72.70	560.70	633.40	71.96	189.40	70.00	331.36	0.00	73.82	0	0	2.00
2008-09		1336.83	5165.26	330.47	557.55	888.02	32.32	0.00	11.50	43.82	0.00	0.00	0	0	0.00
2007-08	MTP	1.99	0.00	11.37	0.00	11.37	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00
2008-09		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0.00
2007-08	TOTAL	1064972.11	1203196.98	38086.74	22530.76	60617.50	3084.23	2799.49	1273.05	7156.77	29054.41	20087.52	177	55	7.00
2008-09		1660994.86	1310896.62	45605.62	20300.98	65906.60	6303.93	6001.54	1220.18	13525.65	22835.48	16927.70	200	51	6.00



V. TRANSPORTATION

Highlights

(i) Originating Revenue Earning Traffic :

Originating Revenue Earning Traffic During the period 2008-09 was 33.753 M.T.

(ii) Loading in terms of 8 Wheelers :

Originating loading in B.G. during 2008-09 was 1591 wagons (Daily average).

(iii) Total Inter-Change wagons Received/Despatched & In ward Releases are as under

Sl. No.	Operating Results (Daily Average in 8-wheelers)	2008-09	2007-08
1	Interchange Receipts	2,178	2,211
2	Interchange Despatch	2,186	2,205
3	Inward Releases	2,461	2,438

2. Volume of Traffic handled and Transportation out put

(Figures in thousands)

Sl. No.	Description	2008-2009	2007-2008
(a)	Passenger Carried (System)	739091	655165**
(b)	Passenger Kms.	69391910	57327433**
(c)	Passenger train Kms. *Excl. Deptl.	50076	48923
(d)	Total Coaching Vehicle Kms.	1463564	1432658
(e)	Total freight tonne Kms.	16270143	15097435**
(f)	Goods train Kms. @	12893	12247
(g)	Total Wagon Kms.	565895	1285300
(h)	Total train Kms. (Excl. Deptl.)*	62969	61170
(i)	Total Engine Kms.	67313	64847
(j)	Total Gross Tonne Kms. (incl.weight of Engine & Deptl.).	76978921	72673376

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

(**) Revised

(@) Includes proportion of mixed but exclude departmental.

3. Operating Efficiency

The important efficiency statistics are given below :-

Sl. No.	Description	Broad Gauge		Metre Gauge	
		2008-2009	2007-2008	2008-2009	2007-2008
(I)	Wagon Kms. per wagon day on line.	172.6	156.8	2.94	2.68
(II)	Coaching Vehicle Kms. per vehicle day-				
	(a) Passenger..	502	589	63	84
	(b) Other Coaching..	294	427	0	3
(III)	Percentage of loaded to total wagon Kms.	59	58	50	50
(IV)	Speed of all Goods trains (Kms. per hour).	26.3	25.6	27.5	22.5
(V)	Average starting wagon load (Tonnes).	58.0	24.1	35.4	17.7
(VI)	Loads of Goods Trains (Tonnes)-				
	(a) Net or freight load..	1,259	1,236	351	292
	(b) Gross Load (incl. weight of engine).	2,556	2,500	687	605
	(c) Gross Load (Excl. weight of engine).	2,390	2,336	614	534
(VII)	Net Tonne Km. per wagon day on line.	4,950	1,844	47	23
(VIII)	Net Tonne Km. per Locomotive day in use.	2,37,095	2,30,389	99,933	70,507
(IX)	Net Tonne Km. per engine hour.	13,369	12,907	2,945	1,751
(X)	Gross Tonne Km. per engine hour.	62,797	59,736	16,910	12,038

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

4. Originating Tonnage under plan heads

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

(Figures in Millions)

Sl. No.	Tonnage Originating	2005-06	2006-07	2007-08	2008-09
1	Coal				
	(i) Coal for Railway use	..	..	..	..
	(ii) Coal for Steel Plant	0.30	0.18	0.18	0.27
	(iii) Coal for other use	12.98	14.57	15.26	17.26
	(iv) Total Coal	13.28	14.75	15.44	17.53
2	Raw materials for steel plants (Other than coal).	0.00	0.15	0.65	0.62
3	Finished products from steel plants.	0.00	0.00	0.13	0.22
4	Cement	2.72	3.27	3.62	4.36
5	Export Ores:				
	(i) Iron Ores	0.00	0.01	0.05	0.00
	(ii) Manganese Ore	0.00	0.00	0.00	0.00
6	Miscellaneous Goods :				
	(i) Railway Materials	0.33	0.13	0.23	0.63
	(ii) Foodgrains	2.00	3.31	1.03	1.24
	(iii) Mineral Oils	3.93	3.77	4.44	4.40
	(iv) Fertilizers	2.51	2.92	2.22	2.69
	(v) Other Goods	2.48	2.52	2.22	2.63
	(vi) Total Misc. Goods	11.25	12.65	10.14	11.59
7	Total All Traffic (Revenue & Non-Revenue)	27.25	31.15	30.03	34.32

5. Loading

(i) Originating Revenue Earning Traffic compared with Board's target and last year was as under :—

(In million tonnes)

Commodity	Boards Target (2008-09)	April-March 2008-09 (Actual)	April-March 2007-08 (Actual)	%Variation over	
				Target	Last year
Coal ..	16.50	17.53	15.44	6%	14%
Cement ..	4.00	4.36	3.62	9%	20%
Foodgrains..	1.03	1.24	1.03	20%	20%
Fertilizer ..	2.60	2.69	2.22	3%	21%
POL ..	4.50	4.40	4.44	- 2%	- 1%
Container ..	1.01	1.39	1.48	38%	- 6%
Others ..	2.86	2.14	1.80	-25%	19%
Total ..	32.50	33.75	30.03	4%	12%

(ii) Loading : (Daily average In terms of 8 wheelers)

Commodity ..	2008-2009		2007-2008	
	BG	MG	BG	MG
Coal ..	741	..	656	..
Cement ..	189	..	157	..
Foodgrains ..	52	1	41	3
Fertilizers ..	117	..	97	..
POL ..	285	..	292	..
Container ..	108	..	107	..
Others ..	99	..	85	..
Total ..	1,591	1	1,435	3

(iii) Clearance of Traffic from Ports : (April 2008 to March 2009)

Port-wise		Coal	Fert	Cont.	Lime Stone	Others
HOM	Wagons	1,97,396	6,560	18,716	..	92
	Tonnes	12,962	414	758	..	6
TN	Wagons	21,873	9,179	..	2,702	2,825
	Tonnes	1,421	582	..	175	183
CHTS	Wagons	2,551	481	3,047	..	718
	Tonnes	166	29	38	..	47
MAQ	Wagons	7,102	7,479	..	11,090	1,071
	Tonnes	463	475	..	724	63
Total ..	Wagons	2,28,922	23,699	21,763	13,792	4,706
	Tonnes	15,012	1,500	796	899	299

(ii) BG Wagons holding was 9756, wagons/day in 2008-09, as compared to 9763 wagons/day in 2007-08.

Container : The traditional stream of container trains Chennai Harbour for Whitefield in Bangalore and from Tondiarpet to Tughlakabad in New Delhi grew steadily during 2007-08, their volumes are now poised for a further growth during this current year. In addition to this, new stream of Container

Traffic with private participation was started from Malpakkam to Patni and is poised to grow further in the next financial year. For the year 2008-09, Southern Railway loading marginally decreased compared to last year due to Global melt down.

2007-08	2008-09	% Variation
1.49 MT	1.39 MT	(-) 7%

Cement : Southern Railway serves twelve cement plants located in four Divisions and transported 4.358 Mts of originating cement traffic. A bulk of this cement is consumed in the West Coast region (i.e. Northern Kerala). The cement traffic on Southern Railway has shown an impressive growth of 20% during 2008-09 and stood at 4.358 Mts as shown below :

2007-08	2008-09	% Variation
3.617	4.358	20%

Other Goods (Gypsum, Lime Stone & Freight Forwarders Scheme)

During this year, Gypsum was loaded to the tune of 438709 tonnes which is likely to continue in future also with a potential growth from FACT at Irumpanam to various Cement Plants across the country Limestone, FFS comparative loading figures in tones are as under :

Commodity	2007-08	2008-09	% of Growth
Gypsum	1,99,765	4,38,709	120%
Limestone	7,06,801	8,99,470	27%
FFS	88,317	1,23,577	40%

Freight Incentive Scheme—(April-2008 to March-2009)

Sl. No.	Type	No. of Rakes	Weight in Tonnes
1.	Mini Rake	336	442920
2.	Two Point Rakes	845	2208810
3.	Multi-Point rakes	8	21100
4.	Two Originating Terminals	25	64320
5.	Freight Forwarder Scheme	89	123580
6.	Traditional Empty flow Direction	47	127810
7.	Incentive Scheme for Incremental Traffic	127	205280
Grand Total		1477	3193820

POL Loading

POL loading of Southern Railway was 4.40 MT as against the Board's Target of 4.50 MT for the year 2008-09 and the loading details compared to Previous year are given below :

I. Loading in MT and Earnings (in crore)

Base	Loading			Earnings			Diff. compared to	
	2006-07	2007-08	2008-09	2006-07	2007-08	2008-09	2006-07	2008-09
TNPM	2.6	2.2	1.7	138.31	116.71	94.07	(-)16%	(-)19%
IPN	1.4	1.7	2.0	63.12	92.22	127.21	46%	40%
TOK	0.3	0.6	0.7	30.19	35.34	38.35	17%	8%
Total	4.3	4.5	4.4	231.62	244.27	259.63	6%	6%

II. Base-wise loading : (In Tanks/P/Day)

Base	2006-07 (in 4 wh)		2007-08 (in 4 wh)		2008-09 (in 8 wh)		Diff. compared to	
	Target	Loading	Target	Loading	Target	Loading	Target	P. Year
TNPM	30.2	312	288	284	91	119	28	(-)35%
IPN	199	205	230	236	118	127	9	15%
TOK	85	79	105	93	45	43	(-)2	4%
Total	586	596	623	613	254	289	35	1%

III. Slate and loading of POL rakes during 2008-09

	TNPM	IPN	TOK	Total	
				P/month	P/day
Linkage given by Board	62	78	39	179	15
Actual loading	103	96	37	236	20
Difference	+41	+18	(-) 2	57	

IV. Lead (in Kms.)

2006-07 — 349 Kms.	
2007-08 — 379 Kms.	Diff. + 9%
2008-09 — 443 Kms.	Diff. + 17%

V. Fleet (in rakes)

In terms of 4wh rakes	2006-07	2005-06	2008-09	Diff.
Black	4	4	4	..
White	30	30	29	(-) 1
BTPN Rakes	1.2	3	5	(+) 2
BTPGN Rakes	4	4	5	(+) 1
TG	2	1	—	(-) 1

Non-POL Loading during 2008-09

(i) Ortholine : On an average, 4 tanks per day was loaded from RPM to RPR during 2008-09 as against the loading of 11 tanks per day during 2007-08.

(ii) Vegetable Oil : On an average, 2 BTPN tanks per day was loaded during 2008-09 as against the loading of 3 tanks per day (1.6 BTPN + 1.1 4 wheeler) during 2007-08.

Six BTPN rakes from SO (4 rakes to JUI, 2 rakes to DOA)

10 BTPN rakes from PNMB (2 rakes to JUI, 3 rakes to MGG, 3 rakes to DOA) and 2 rakes to SNGN was loaded during 2008-09.

(iii) Molasses : No Molasses rake was loaded during 2008-09.

Conclusion : POL loading was marginally less i.e. 0.1 MT when compared to Board's target of 2008-09. The lead has gone up considerably i.e. 17% during 2008-09.

6. Wagon Position and Wagon Usages

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

Sl. No.	Description	Broad Gauge		Metre Gauge	
		2008-09*	2007-08	2008-09*	2007-08
(a)	No. of wagons owned (in terms of 4-wheelers) ..	9,785	24,560	632	1,146
(b)	Inter-change debit/credit balance	n/a	n/a	n/a	n/a
(c)	Average wagon holding (in terms of 4 wheelers) ..	9,829	23,593	245	819
(d)	No. of wagons loaded :				
	(i) Originating	1,583	3,407	1	6
	(ii) Transshipment	0	0	0	0
	(iii) Repacked	0	0	0	0
	(iv) Coaching Traffic	0	0	0	0
	(v) Total loading	1,583	3,407	1	6
(e)	No. of loaded wagons received daily from other Rlys.	1,760	4,440	0	0
(f)	Turn round of wagons (on line)	n/a	n/a	n/a	n/a

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

7. Wagons on Line

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

(Figures in Millions)

Gauge	Current year 2008-09	Previous year 2007-08	Percentage variation over previous year
Broad	10,276	10,550	-2.60
Metre	653	589	10.87
Total	10,929	11,139	-1.89

(b) The average No. of wagons on line pooled and non-pooled as under (in terms of 4-wheelers)

Gauge	Current year 2008-09	Previous year 2007-08	Percentage variation over previous year
Broad	8,984	22,389	..
Metre	87	609	..

(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 2008-09	Previous year 2007-08	Percentage variation over previous year
Broad	5,77,757	12,43,621	..
Metre	340	2,390	..

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

Gauge	Current year 2008-09	Previous year 2007-08	Percentage variation over previous year
Broad	6,42,524	16,20,499	..
Metre	..	..	..

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

Gauge	Current year 2008-09	Previous year 2007-08
Broad	5.85	6.20
Metre	..	0.57

All Wagon related Items are in 8 Wheelers for the Year 2008-09 hence percentage variation is not shown

8. Statement of Net Tonne Kms. (Originating)

(Figures in Millions)

Particulars	Current year 2008-2009	Previous Year 2007-2008
I. Coal		
(i) Coal for Railway Use	..	..
(ii) Coal for Steel Plants	.. 25.01	23.21
(iii) Coal for Other Use	.. 3,978.52	3,375.81
(iv) Total Coal	.. 4,003.53	3,399.02
II. Raw Materials for Steel Plants (Other than Coal).	23.93	17.73
III. Finished products from Steel Plants	724.15	812.28
IV. Cement	.. 2,782.32	2,194.67
V. Export Ore		
(i) Iron Ore	.. 1,387.71	1,971.13
(ii) Manganese Ores	..	..
VI. Miscellaneous Goods		
(i) Railway Material	.. 48.81	21.05
(ii) Foodgrains	.. 3,807.05	3,412.15
(iii) Mineral Oil	.. 1,059.24	739.37
(iv) Fertilizer	.. 1,059.49	589.14
(v) Other Goods	.. 1,375.41	1,946.04
(vi) Total Misc. Goods	.. 7,350.00	6,707.75
(vii) Total all traffic	.. 16,271.64	15,102.58

Note.—Previous Year Figures Revised.

9. Engine usage

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

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

(Figures in thousands)

Particulars	Current Year 2008-2009	Previous Year 2007-2008	% variation over previous year
(a) Passenger			
B. G. Steam	..	..	..
Dsl. Elec.	.. 25,200	25,733	-2.07
Dsl. Hyd.	..	..	..
Elec.	.. 28,815	27,931	3.16
Total	.. 54,015	53,664	0.65
M. G. Steam	.. 23	22	4.55
Dsl. Elec.	.. 1,299	1,885	-31.09
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	.. 1,322	1,907	-30.68
(b) Goods			
B. G. Steam	..	..	..
Dsl. Elec.	.. 9,777	9,288	5.26
Dsl. Hyd.	.. 15	9	66.67
Elec.	.. 10,001	9,880	1.22
Total	.. 19,793	19,177	3.21
M. G. Steam	..	..	..
Dsl. Elec.	.. 5	21	-76.19
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	.. 5	21	-76.19

(Figures in thousands)

Particulars	Current Year 2008-2009	Previous Year 2007-2008	% variation over previous year
(c) Mixed			
B. G. Steam
Dsl. Elec.
Dsl. Hyd.
Elec.
Total
M. G. Steam
Dsl. Elec.
Dsl. Hyd.
Elec.
Total

(d) Total EKMs incl. Deptl.

B. G. Steam	..	..	..
Dsl. Elec.	.. 38,914	38,712	0.52
Dsl. Hyd.	.. 1,983	2,173	-8.74
Elec.	.. 39,268	38,184	2.84
Total	.. 80,165	79,069	1.39
M. G. Steam	.. 25	26	-3.85
Dsl. Elec.	.. 1,381	2,034	-32.10
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	.. 1,406	2,060	-31.75

II. Engine Kms. per day per engine in use :

(a) Passenger Service

B. G. Steam	..	..	..
Dsl. Elec.	.. 543	554	-1.99
Dsl. Hyd.	..	..	..
Elec.	.. 622	603	3.15
Total	.. @	@	..
M. G. Steam	.. 31	30	-3.33
Dsl. Elec.	.. 158	201	-21.39
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	.. @	@	..

(b) Goods Service

B. G. Steam	..	..	..
Dsl. Elec.	.. 341	331	3.02
Dsl. Hyd.	.. 23	22	4.55
Elec.	.. 405	398	1.76
Total	.. @	@	..
M. G. Steam	..	..	..
Dsl. Elec.	.. 514	391	31.46
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	.. @	@	..

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

B. G. Steam	..	..	..
Dsl. Elec.	.. 395	407	-2.95
Dsl. Hyd.	.. 111	121	-8.26
Elec.	.. 383	388	-1.29
Total	.. @	@	..
M. G. Steam	.. 9	9	..
Dsl. Elec.	.. 110	100	10.00
Dsl. Hyd.	..	..	..
Elec.	..	..	..
Total	.. @	@	..

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

10. Working of Transshipment Points :

NIL

11. Water Supply

<i>Sl. No.</i>	<i>Division</i>	<i>Station & Name of work</i>	<i>Amount of Rs. in lakhs</i>
A. Works completed			
(i) Works costing more than Rs. 5 lakhs each			
1.	Chennai	AJJ—Over Head Tank at AJJ augmentation of water supply at CTRLR	25.67
		MS—Improvements pipeline to Qrs. No. 235 & RPF office	10.00
2.	Salem	SA—Provision of OHT & GLR	35.00
		TUP—Improvement to road surface and watering arrangements facilities at Goods shed.	50.00
3.	Palghat	CAN—Proposed Carriage watering arrangements	16.194
		MAQ—Augumentation of water supply to make up water scarcity during summer	5.04
		MAQ—Provision of RCC OHT for 2.25 lakhs litres at KNKD and 22,500 litres capacity at KZE & PAY.	42.31
4.	Trivandrum	TVC—Replacement of PVC circular tank by GRP panelled tank	37.25
		QLN—Improvements to water supply arrangement	29.89
		QLN—Provision of tube well	6.99
5.	Tiruchchirappalli	Nil	
6.	Madurai	MDU—Provision of individual drinking water taps to the left over and repairs to the leaky roof of staff quarters.	82.00
		MDU—Drinking water connection to new pit lines, DMS office and wards at Loco shed premises.	10.00
7.	CN/MS	Nil	
8.	MTP	Nil	
(ii) Works costing less than Rs. 5 lakhs each			
1.	Chennai	Nil	
2.	Salem	SUU—Provision of OHT 5,000 lits. Capacity	3.94
3.	Palghat	Nil	
4.	Trivandrum	Nil	
5.	Tiruchchirappalli	Nil	
6.	Madurai	VPT—Proposal water pipeline for washing of night soil on cc apron of track No. 1 at VPT (Platform No. 1).	3.81
7.	CN/MS	Nil	
8.	MTP	Nil	
B. Works in Progress			
(i) Works costing more than Rs. 5 lakhs each			
1.	Chennai	AVD—Water supply through Lorry	25.14
		RPM—Wimco Nagar water supply arrangements	25.04
		AJJ—Construction of OHT of HLT at TRT	20.00
		PWQ—Repairs damaged corroded pipe lines at PWQ colony	48.06
2.	Salem	PTJ—Provision of individual storage water tank at staff qrs. (400 Nos.) and augumentations of water supply by drilling three more bore wells and pipe line arrangements.	50.00
		PTJ—Construction of OHT 90000 litres capacity and replacement of pipe line grid at 20 block area.	50.00
		SA Dn.—Provision of drinking water facilities and toilets at goods shed SA, SAMT, ED, IGU, PLMD & CBF.	50.00
3.	Palghat	SRR—Water supply in SRR colony & Maintenance	6.20
4.	Trivandrum	ERS—Coaching Complex - Watering arrangements by laying 200 mm. dia pipe from muvatupuzha river near Piravarm Road station.	806.00
		CGY, ETM, TRVL—Improvements to water supply arrangements	24.00
		ALLP—Repairs to water hydrants	9.33
		NCJ Sub Division—Provision of bore wells 300 mm. dia 5 Nos.	64.77
5.	Tiruchchirappalli	Kallukuzhi Colony—Replacement of corroded pipe lines	41.00
		Ponmalai—Replacement of pipe lines in colony to ensure uniform distribution of water supply, 'C' type 1300 & 'F' type 500.	64.00
		NGT & NCR—Augumentation of water supply at NGT & NCR	15.00
		TPJ Colony—Replacement of damaged and heavily corroded CI Tank an water pipe line at Kalukuzhi.	30.00
		TPJ-KG-RPSF Colony : Construction of 2.25 KL RCC Over Head Tank in lieu of corroded MS over head tank.	29.00

6.	Madurai	MDU Jn.—Providing individual drinking water connection to first floor of block 251 A to 254 A to L, 269 A to L to 271 A to L.	19.00
		MDU Jn. Augmentation of water supply to Rly. Station by providing deep borewell 4 Nos. along with pipeline arrangements.	54.00
		SCT Section—TSI station : Construction of OHT of 90000 litres capacity to augment water supply.	40.63
		KKDI—Reconstruction of RCC OHT	16.29
		RMM—Reconstruction of RCC OHT	15.40
7.	CNMS	Nil	
8.	MTP	Nil	

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

1.	Chennai	Nil	
2.	Salem	BQI—Provision of GLR including treatment plant	3.94
		MYU—PGN & KKR—Provision of watering arrangements to staff quarters and station building. KRR - Provision of pipeline, Sintex OHT - over rail staging and electrical pump and renewal of corroded pipe line to staff quarters and station.	4.99
		PTJ - Repairs to drinking water pipe line in porter line and provision of water pipe upstairs of golf link area.	4.70
		SUU - Provision of OH tank 5,000 lit. capacity	3.94
3.	Palghat	SRR—Water disinfection unit	3.96
		SRR—Renewal of corroded pipe line in the colony	4.44
4.	Trivandrum	Nil	
5.	Tiruchchirappalli	Nil	
6.	Madurai	Nil	
7.	CNMS	Nil	
8.	MTP	Nil	

12. Punctuality of Passenger Trains

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

Particulars		Current Year 2008-09	Previous Year 2007-08
B.G.	Mail & Express	85.2	87.1
	Passenger	96.1	97.9
	Suburban (EMU)	99.6	99.1
M.G.	Mail & Express	100.0	99.8
	Passenger	99.3	99.7
	Suburban (EMU)	..	..

Punctuality percentage of Passenger carrying trains (Gauge-wise)

NLT BASIS						
	Target	Broad Gauge		Target	Metre Gauge	
		2007-08	2008-09		2007-08	2008-09
Mail/Exp.	95.0	95.5	91.9	97.0	99.8	100.0
Passenger	95.0	98.0	95.7	95.0	99.7	99.3
Suburban	97.5	99.0	99.6	97.5	..	..

	Broad Gauge		Metre Gauge	
	2007-08	2008-09	2007-08	2008-09
No. of trains run	66,093	68,760	1,096	478
No. of trains not losing.	63,138	63,186	1,094	478
No. of trains losing	2,955	5,574	2	..
Percentage	95.5	91.9	99.8	100.0

RIGHT TIME BASIS

	Broad Gauge		Metre Gauge	
	2007-08	2008-09	2007-08	2008-09
Mail/Exp.	87.6	85.2	99.8	100.0

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

13. Passenger Operations

2.0. Introduction of Trains :

In order to meet the increasing requirements of train services, the following new trains were introduced from Southern Railway during 2008-2009 :—

2.1. BROAD GAUGE

Express Trains :

Sl. No.	Train No. and Description	w.e.f.
1.	T. No. 6101/6102 Chennai Egmore – Rameswaram Exp.	01-11-08
2.	T. No. 2256/2255 Yeswantpur – Puducherry Garibrath Weekly Exp.	03-01-09
3.	T. No. 2484/2485 Amritsar – Kochuveli Weekly Exp.	25-01-09
4.	T. No. 4259/4260 Varanasi – Chennai Egmore Weekly Exp.	12-02-09
5.	T. No. 2257/2258 Yeswantpur – Kochuveli Garibrath (Tri-weekly) Exp.	22-02-09
6.	T. No. 2287/2288 Kochuveli – Dehradun Weekly Exp.	22-02-09
7.	T. No. 6736/6735 Tiruchendur – Chennai Egmore Weekly Exp.	12-02-09
8.	T. No. 2389/2390 Gaya – Chennai Egmore Weekly Exp.	08-03-09

Passenger Trains :

Sl. No.	Train No. and Description	w.e.f.
1.	T. No. 787/788 Madurai – Sengottai Pass.	01-07-08
2.	T. No. 653/654 Shoranur – Nilambur Road Pass.	01-07-08
3.	T. No. 186/185 Vellore – Chennai Beach MEMU	22-12-08
4.	T. No. BTL 1A/TLB 6 Chennai Beach – Tirumalpur.	22-12-08

Trains introduced on Gauge Converted sections :-

Sl. No.	Train No.	Description	w.e.f.
1.	*2297/2298	Chennai Egmore-Salem Exp (via Vriddhachalam)	08-08-08
2.	731/732	Tirunelveli-Tiruchendur Passr.	28-09-08
3.	733/734	Tirunelveli-Tiruchendur Passr.	28-09-08

* Renumbered as 1063/1064 w.e.f. 01.12.08

Suburban Trains :

As on 31st March 2009, a Total number of 236 EMU Trains are running on Chennai Beach-Tambaram BG Section.

Trains extended :

Mail/Express

Sl. No.	Train No.	Description	Extended to	w.e.f.
1	2677/2678	Bangalore-Coimbatore Intercity Exp.	Ernakulam	01-07-08
2	829/832	Tiruchchirappalli-Karaikudi Pass.	Rameswaram	03-07-08
3	2084/2083	Coimbatore-Kumbakonam Jan Shatabdi Exp.	Mayiladuthurai	17-08-08
4	725/724	Turicorin-Tirunelveli Pass.	Tiruchendur	28-09-08
5	191/192	Arakkonam-Katpadi Pass.	Vellore Contonement	11-11-08
6	199/200	Arakkonam-Katpadi Pass.	Vellore Contonement	11-11-08
7	D161/D164	Tirupathi-Katpadi Pass.	Vellore Contonement	11-11-08
8	D163/D166	Tirupathi-Katpadi Pass.	Vellore Contonement	11-11-08
9	D169/D162	Tirupathi-Katpadi Pass.	Vellore Contonement	11-11-08
10	2691/2692	Chenna Central-Bangalore Weekend Exp.	Sri Sathya Sai Prashanti Nilayam	12-12-08
11	6733/6734	Madurai-Manmad Weekly Exp.	Rameswaram/Okha	27-02-09
12	872/875	Thanjavur-Tiruvarur Pass.	Nagore	27-02-09
13	871/876	Tiruchchirappalli-Tiruvarur Pass.	Nagore	27-02-09
14	873/874	Tiruchchirappalli-Tiruvarur Pass.	Nagore	27-02-09
15	779/780	Tiruchchirappalli-Tiruvarur Pass.	Nagore	27-02-09

Increase in Frequency :

Sl. No.	Train No. & Description	Existing	Increased to	w.e.f.
1.	6115/6116 Chennai Egmore-Puducherry Exp..	5 days	Daily	12-04-08
2.	2432/2431 Nizamuddin-Thiruvananthapuram Rajdhani Exp.	Bi-weekly	Tri-weekly	03-12-08

2.7 Conversion into Superfast Trains : Nil

MENU Services introduced during 2008-2009 :

1. T. No. 185/186 MSB-VLR-MSB w.e.f. 22-12-08
2. BTL 1A/TLB 6A MSB-TMLP-MSB w.e.f. 22-12-08
3. MA 23 F-MMC-AJJ Fast Passenger w.e.f. 22-12-08

Trains Diverted :

Consequent to opening of Karaikkudi-Manamadurai (BG) section on gauge conversion for passenger traffic. Train No. 6713/6714 (Old No. 7613/7614). Chennai Egmore-Rameswaram Exp. was diverted to run via Tiruchchirappalli-Karaikkudi-Manamadurai instead of Tiruchchirappalli-Dindigul-Madurai-Manamadurai with w.e.f. 02-7-08.

i. Special Trains

(a) Allotment of Special trains on FTR

Film Shooting	FTR Special	Village on Wheels
19	13	26

Allotment of coaches on FTR

Total No. of Coaches	125
----------------------	-----

(b) Military Specials

(1) No. of loaded Military specials	23
(2) No. of empty Military specials	24

ii. Alarm Chain Pulling

The following are the particulars of Alarm Chain Pulling during April 2008 to March 2009 :—

Division	MAS	PGT	TVC	TPJ	MDU	SA	Total
Total No. of cases	370	222	481	77	213	183	1546
Unjustified	181	—	161	—	—	—	342

iii. Introduction/change in the pattern of through and sectional coaches – Nil

iv. Overseas Traffic : Nil

v. Steps taken to ease over crowding :—

a) During the year 66 various types of coaches viz. FACCW-1, ACCN-9, FC-2, GSCN-22, GSCZ/GSCZAC-6, GS-5, SLR-3 & EMU-18 were augmented by 12 Pairs of Express Trains and 2 pairs of Passenger trains on permanent basis to provide additional accommodation.

b) Trains were augmented with extra coaches to clear wait listed passengers based on the day-to-day demand 7547 coaches were attached as extra during April 2008 to March 2009.

c). To clear extra rush 1717 special trains, (including Summer & Winter Specials) and 287 MLMR Specials were run during April 2008 to March 2009.

14. Action taken to maintain cleanliness at station premises :

Hon'ble MRs latest directive

As per Hon'ble MR's directive, CRB in a recent letter No.2009/CRB/MR/GM/cleanliness/PA dated 15-06-2009 has advised to launch urgent action on cleanliness and send a weekly report.

Accordingly, HODs/PHODs and DRMs have been advised through a D.O.letter from CCM on 30-06-2009, to conduct a drive with a schedule at Headquarters and at Divisional level and send a weekly report. Based on the details obtained from the Headquarters/Divisions a weekly report is being sent to Railway Board every week.

1. Mechanised Cleaning—Out of 57 stations in A1, A & B category, mechanized cleaning was introduced in 33 stations as detailed below :—

Chennai Division	MAS, MS, CGL, KPD, JTJ, MLMR
Palghat Division	MAQ, SRR, PGT, CLT, CAN
Salem Division	CBE, ED, SA, MTP, SRR
Trivandrum Division	TVC, TCR, QLN, KTYM, ERS, NCJ, ALLP
Trichchirappalli Division	TPJ, VM, TJ, MV, VRI
Madurai Division	MDU, DG, TEN, TN, VPT

Introduction of mechanized cleaning for the remaining 24 stations are under process.

2. Creation of HI Posts—At present 129 HIs are working to look after the cleanliness of the A1, A & B category stations. Addition 121 posts have been created consequent upgradation of some stations. Action is under process to fillup these vacancies.

3. Rag Picking contract—In order to improve the standard of cleanliness in Railway tracks, rag picking contracts had been awarded in 37 A1, A, B category stations as detailed below. In the remaining 20 stations, awarding of rag picking contract is under process which will be finalised very shortly.

MAS	TPJ	MDU	PGT	SA	TVC
KPD	TPJ	MDU	PGT	CBE	TVC
MAS	VM	DG	TLY	SA	TCR
MLMR	TJ	VPT	MAJN	ED	KTYM
JTJ	KMU	TEN	BDJ		ALLP
CGL		TN	TIR		ERS/ERN
MS		TSI	SRR		NCJ
		CVP	MAQ		QLN
					KYJ
					CNGR
					AWY

4. Creation of Imprest Cash—For 'D' & 'E' category stations, one time cleaning contract will be done and for meeting out the expenses of cleanliness, the imprest cash of Station Manager / Station Master has been enhanced as indicated below :—

Class of stations	Imprest Amount (Rs.)
A1	10,000
A	7,000
B	5,000
C	3,000
D	3,000
E	2,000

5. Awareness campaign—Awareness campaign, cleanliness drives etc are being conducted by the Divisions to create public awareness. Regular and frequent announcements are made to educate awareness among travelling public.

6. SIG inspections—SIG inspections are being conducted with regard to compliance of guidelines issued for maintenance of cleanliness at stations. Regular review meetings are being conducted by AGM with ADRMs and HODs to review the progress in cleanliness.

7. Clean Train Station—Erode has been defined as Clean Train station on Southern Railway and 29 pairs of trains are cleaned every day through outsourcing

15. Specific Fuel Consumption—Brief Remarks for the variation—Period : April 2008 to March 2009 compared to April 2007 to March 2008.

Service	Apr. 07 to Mar. 08	Apr. 08 to Mar. 09	Variation	Remarks
BROAD GAUGE—STEAM TRACTION NO SERVICE				
METRE GAUGE—STEAM TRACTION				
Pass. and prop of mixed.	599.3	683.5	+84.2	This is a minor service operated in mountain Railways and it will not be realistic to compare with previous year.
Goods and prop of mixed.	No Service	No Service	No Service	Nil
DIESEL TRACTION—BROAD GAUGE				
Pass. and prop of mixed.	4.58	4.42	-0.16	Favourable.
Goods and prop of mixed.	3.11	2.97	-0.14	Favourable.
DIESEL TRACTION—METRE GAUGE				
Pass. and prop mixed.	6.71	6.74	+0.03	The increase in SFC is due to Gauge conversion
Goods and prop. of mixed.	4.95	4.98	+0.03	

Fuel Economy campaign

1. Close monitoring of the performance of individual shed wise and loco type wise.
2. Computerization of crew booking points for correct account of CTR.
3. Shed staff are deputed to other Railway to collect the loco earnings every month.
4. SLI/LI's are deputed to DTC to improve their efficiency regarding new locos.
5. Review meetings are conducted at sheds with LI's of the division periodically.
6. Trip rations are monitored at divisional level to improve the performance.
7. High efficiency turbo charger are fixed instead low performance turbo in the locos to save oil.
8. All possible efforts are taken for optimum utilization of locos with appropriate loads.
9. Computerization of fuel accountal in all RCD.

Shed-wise and field-wise coal supplied (in tonnes) for 2008-09

Field	Grade 'A'	Grade 'B'	Grade 'C'	Grade 'D'	Non Graded	Total
Bentgal & Bihar Coal	890	2344	..	..	..	3234
Singareni Coal	..	..	..	..	..	..
MPVP Coal	..	..	..	..	..	..
Total	890	2344	..	..	..	3234

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

Kind of Coal	Loco - Purposes		Non - Loco - purposes		Total	
	April -07 to March-08	April -08 to March-09	April -07 to March-08	April -08 to March-09	April -07 to March-08	April -08 to March-09
Grade "A"	1900	969	..	..	1900	969
Grade "B"	..	492	..	..	..	492
Grade "C"	..	..	..	..	..	..
Grade "D"	..	..	..	..	..	..
Non - Graded	..	..	..	..	..	..
Wood (in terms of Coal)..	..	..	..	..	..	..
Salvage	..	..	..	..	..	..
Coke (in terms of Coal)	..	..	374	336	374	336
Total	1900	1461	374	336	2274	1797

17. Input/Output Ratio

Particulars	2008-09	2007-08	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.	471.7	447.4	5.43
(ii) Wagon holdings in terms of 4 wheelers	10,074	24,412	-58.73
(iii) Additional capital investments on line capacity & terminal capacity (Rs. in lakhs).	N/A	N/A	N/A
2. OUTPUT			
(i) GTKMs. incl. Wt. of Engines (in lakhs) on ownership basis as per train documents Goods & prop. of mixed.	3,48,132	3,28,654	5.93
(ii) NTKMs (in lakhs) on ownership basis as per train documents Goods & prop. of mixed.	1,90,167	1,70,999	11.21
(iii) Average daily loading incl. Transshipment at BG, MG & NG (Revenue & Non-Revenue).	1,584	3,413	-53.59
Average daily loaded receipts	1,760	4,440	-60.36
Total loading and loaded receipts	3,344	7,853	-57.42
AVERAGE			
Wagon Kms. Per wagon day on line			
BROAD GAUGE	172.6	156.8	10.08
METRE GAUGE	2.94	2.68	9.70



VI. COMMERCIAL

1. Revision of Passenger Fares :

Based on the Commercial Circular No. 20 of 2008 dated 20th March 2008, the Advance Rates Notification for Rate Advice No. 3 of 2008 (Coaching No. 18/2008) has been issued. With effect from 1st April 2008, the fares are reduced for certain classes under variable Fare Scheme :—

Fares for Second Class :

(i) **Non-Suburban** :—The existing basic fares upto Rs. 50/- per passenger for Non-suburban Mail/Express including Super fast trains and Non-suburban Ordinary Passenger Trains shall be reduced by giving a discount of Rs. 1/-. Fares beyond Rs. 50/- per passenger shall be reduced by giving a discount of 5 per cent.

(ii) **Suburban** : There will be no change in the existing fares for travel in Suburban Sections.

Fares for other Classes :

(i) **AC First Class** : It has been decided to reduce the existing fares of AC First Class by approximately 7 Per cent during Lean Season and by approximately 3.5 Per cent during Peak season. However, reduction in fares for popular trains shall be approximately 3.5 Per cent for all seasons.

(ii) **A. C. 2-tier Class** : It has been decided to reduce the existing fares of AC 2-tier by approximately 4 Per cent during Lean season and by approximately 2 Per cent during Peak season. However, reduction in fares for popular trains shall be approximately 2 Per cent for all seasons.

Fares for High Capacity Coaches : It has been decided to grant discounts in fares in High Capacity Coaches as mentioned below :—

Class	Capacity of High capacity coaches	Percentage Fare Discounts		
		Other than Popular trains		Popular trains
		Peak season	Lean season	All seasons
Sleeper Class	81 berths	6%	6%	6%
AC Chair-Car	102 seats	5%	10%	5%
AC 3-tier	72 berths	5%	10%	5%

These discounts are granted in the fares published in the IRCA Coaching Tariff No. 26 (Part II) while charging the fares for High Capacity Coaches :—

Peak Season and Lean Season :—For the purpose of charging of fares under Variable Fare Scheme are as under :—

Peak Season	1 st April	to	31 st July and
	1 st September	to	31 st January
Lean Season	1 st February	to	31 st March and
	1 st August	to	31 st August

All the revised passenger fares are published in the Coaching Tariff No. 26 (Part II). Basic Passenger Fares for Shatabdi Express Trains, Jan Shatabdi 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).

Popular trains : Based on the Commercial Circular No. 22 of 2008, the list of Popular trains are notified by this Office under ARN No. 4 of 2008 (Coaching No. 19 of 2008).

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

Concession in fares :—

With effect from 1st April 2008, Free Monthly Season Tickets have been issued to Girl students studying upto Graduation and Boy students studying upto 12th standard, as per Rule No. 242.2 (iii) of I. R. C. A. coaching Tariff No. 26, Part-I (Vol. I).

Further it has been clarified by Board that the above free MSTs will be issued to Girl students, studying in the stream of Arts, Science and Commerce like B. A., B.Sc., B.Com., etc. upto Graduation only and will not be issued to students studying in professional courses like B. Ed., L. L. B., B. E., B. Tech., M. B. B. S., etc or any other Diploma courses or any other equivalent courses.

2. Revision of rates for Goods Traffic

1. With effect from 1st April 2008 the following adjustments have been effected in the freight rates :—

(a) No across the board increase in the freight rates has been made in the year 2008–09.

(b) The highest classification has been reduced from Class 210 to Class 200.

(c) Classification of “Fly ash” has been reduced from Class 140 to Class 120.

(d) The commodities not covered in the Goods Tariff have been charged at Compositor Base Freight rates applicable for the wagon type in which it is loaded. The base rates are as under and the same is applicable at Owner's Risk Rate (OR) :

Tank wagons	Class 200
Flat wagons	Class 180
Open wagons (including hopper wagons)	Class 160
Covered wagons	Class 150

(2) With effect from 1st April 2008, the classification of “Iron Ore” under the main commodity head “Ores and Minerals” has been revised from Class 170 to Class 180 for trainload.

(3) With effect from 1st May 2008, the classification of “Iron Ore Domestic” indexed under the main commodity head “Ore and Minerals” has been revised from Class 180 to 170 for a three months i. e., upto 31st July 2008.

(4) With effect from 22nd May 2008, the classification of “Iron Ores for other than domestic consumption” under the main commodity head “Minerals and Ores” has been from Class 180 and assigned with a new classification of Class 200X.

(5) With effect from 8th August 2008, "Bentonite Sulphur Pastilles" (Straight Sulphur Fertilized) and "Water soluble Fertilizer" have been classification at Class 120 for trainload and included under main head "Chemical Manures".

(6) with effect from 20th August 2008 to new classes viz., Class Automobile (NMG) and Class Automobile (BCACM) have been introduced for charging of Automobile traffic including 2-wheelers and Motor Tractors.

(7) With effect from 13th November 2008, the classification of "Iron Ore meant for domestic consumption for manufacture of Iron and Steel" has been revised to class 180.

(8) With effect from 8th December 2008, the classification of main commodity heads "Cement" and "Coal and Coke" has been revised from Class 140 to Class 150. However, the classification of Fly ash included under the main commodity head "Cement" remained unchanged at Class 120.

(9) With effect from 1st February 2009, the classification of Main commodity head "Chemical Manures" and "Food Grains, Flours and Pulses" has been revised from Class 120 to Class 130 for trainload movement.

II. Dynamic Pricing Policy

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

The following are various charges/surcharges which were in force during 1st April 2008 to 31st March 2009 :—

Busy Season Surcharge

Busy Season Surcharge on Freight charges at the rates mentioned in the table below has been levied during the busy season extended from 1st April 2008 to 30th June 2008 and 1st October 2008 to 31st March 2009 :—

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

Congestion Surcharge

Congestion charge on freight charges at the rate mentioned in the table below during the period extended from 1st April 2008 to 31st March 2009 :—

Sl. No.	Commodities	Rate of Surcharge
1	Iron Ore traffic booked to the sidings and goods shed serving ports.	* 100 Per cent
2	All traffic to Bangladesh	20 Per cent
3	All traffic to Pakistan	20 Per cent

* Remained in force for a brief period between 1st April 2008 to 14th May 2008.

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3. Concessional Rates

(1) 15 Per cent concession was granted in Normal Tariff Rate (NTR) for Timber waste when loaded in covered wagons viz., BCN/BCNA/BCNAHS/BCX wagons w.e.f. 1st July 2008 to 30th June 2009.

(2) Concession of free carriage was allowed for transportation of Fodder/Relief Materials to the flood affected districts of Bihar, Orissa and Assam States and the same were in force for the period indicated below :—

1. Bihar State From 28th August 2008 to 21st February 2009.
2. Orissa and Assam States From 25th September 2008 to 15th November 2008.

4. Revision of minimum weight condition

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

With effect from 1st June 2007, all BG routes of Indian Railways (except certain excepted routes) have been universalized as CC + 6 routes. Further, as a Pilot project certain routes on Indian Railways have been identified as CC + 8 routes for selected commodities with higher permissible carrying capacity. The Permissible Carrying Capacity for each type of wagons on CC + 6 routes and CC + 8 routes have been notified by Board from time-to-time.

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

1. Vasco-Hospet-Guntakal-Renigunta-Vysarpadi-Chennai (HOM).
2. Vysarpadi-Korukkupet -Tondiarpet-Attipattu-Ennore.
3. Gudur-Chennai.
4. Madagon-Ankola-Thokur-Panamburu.

5. Rebate on Export traffic:—

The scheme was not in force in 2008-09.

6. Introduction of Freight incentive Scheme :

Railway Board have issued revised Policy guidelines for Freight Incentive Scheme for the year 2008-09 in supersession of Freight Incentive Scheme issued in the year 2007-08.

FREIGHT INCENTIVE SCHEME:

- a. Incentive Scheme for Incremental Traffic.
- b. Long Term Special Incentive Scheme.
- c. Incentive Scheme for Traditional Empty Flow Direction (Private Sidings)
- d. Incentive Scheme for Traditional Empty Flow Direction (Goods shed)
- e. Incentive Scheme for Freight Forwarders.
- f. Incentive Scheme for Freight Forwarders in Traditional Empty Flow Direction.
- g. Incentive Scheme for Two-Leg Traffic.

- h. Incentive Scheme for Loading Bagged Consignments in BOXN.
- i. Incentive Scheme for Lump Sum Special Rates and SLA.
- j. Incentive Scheme for Traffic on MG and NG Systems.
- k. Incentive Scheme for Short Lead Cement Traffic effective from 15th November 2008 to 14th May 2009.
- The performance under various Freight Incentive Schemes for the year 2008-09 is enclosed.

TRANSPORTATION PRODUCTS:

- a. Block Rake.
- b. Mini Rake.
- c. Two Point Rake
- d. Multi Point Rake
- e. Two and Multi Point Rake (Other than Covered Wagons).
- f. Rake from Two Originating Terminals
- g. Rake from Two Originating Terminals (Other than Covered Wagons).

Except Long Term Special Incentive Scheme, all other Incentive Schemes are sanctioned by Divisional Railway Managers.

During 2008-09, under Long Term Special Incentive scheme, the following six Firms have been granted freight concession by way of refund at 5 per cent during busy season and 10% during lean season.

The committed quantity for the period is mentioned below :-

Party	Period	Commitment (in Tonnes)
M/s. Dalmia Cements Ltd.	24-5-2008 to 23-5-2009	6,90,000
M/s. JSW Steel Ltd.,	28-8-2008 to 27-8-2009	1,43,200
M/s. Thirumalai Chemicals Ltd.	1-11-2007 to 31-10-2008	65,050
M/s. ACC Ltd.,	19-9-2008 to 18-9-2009	6,33,920
M/s. Mangalore Chemicals & Fertilizers Ltd.,	13-3-2009 to 12-3-2010	4,62,000
M/s. Malabar Cements Ltd.,	29-11-2008 to 28-11-2009	3,35,000

FREIGHT INCENTIVE SCHEMES & TRANSPORTATION PRODUCTS

Sl. Nos.	Name of the Party	2007-08			2008-09		
		No. of rakes	Weight in '000's tonnes	Earnings Rs. in lakhs	No. of rakes	Weight in '000's tonnes	Earnings Rs. in lakhs
I	Freight forwarder scheme	62	88.32	1209.77	89	123.58	1750.56
II	Traditional Empty Flow Direction	23	80.54	794.57	47	127.81	930.20
III	Incentive scheme for incremental Traffic lean season	189	301.49	1615.53	127	205.28	1353.11
IV	Transportation Products	"	"	"	"	"	"
i	Mini Rakes	287	363.60	986.10	336	442.92	1298.41
ii	Two Point Rakes	555	1397.76	6385.02	845	2208.81	9805.91
iii	Multi Point Rakes	21	52.29	228.78	8	21.10	97.81
iv	Rakes from Two Originating Terminals	6	15.03	103.11	25	64.32	434.54
Grand Total		1143	2299.04	11322.87	1477	3193.83	16650.66

7. (a) Claims Registration

Year	Parcels	Goods	Total
2008-09	721	127	848
2007-08	686	185	871

(b) Claims Performance

Details	2007-08	2008-09	%Variation
Opening Balance	43	35	(-) 19%
Registration	871	848	(-) 3%
Re-opened	76	91	20%
Total	990	974	(-) 2%
No. of cases paid	175	145	(-) 17%
No. of cases repudiated	780	780	
Total Disposal	955	925	3%
Closing Balance	35	49	40%
Amount paid (Excl. court cases)	23.00	6.48	(-) 72%
Amount paid in court cases	30.46	12.96	(-) 57%
Total amount paid	53.46	19.44	(-) 64%
Average time for disposal	40 days	38 days	(-) 5%
Average time for payment	40 days	27 days	(-) 33%

(c) Causewise Analysis of Claims Paid : (including court)

Claims paid on Account of	Year	Number	Amount (Rs. in lakhs)	Per cent To Total Number	Amount
Complete loss	2008-09	151	18.73	97.42	96.35
	2007-08	191	48.87	95.02	91.41
Theft of complete packages	2008-09	0	0	0	0
	2007-08	0	0	0	0
Pilferages	2008-09	0	0	0	0
	2007-08	0	0	0	0
Damage by wet	2008-09	2	0.20	1.29	1.03
	2007-08	8	3.27	3.98	6.11
Delay in transit	2008-09	2	0.51	1.29	2.62
	2007-08	0	0	0	0
Breakage	2008-09	0	0	0	0
	2007-08	1	1.27	0.50	2.37
Leakage	2008-09	0	0	0	0
	2007-08	0	0	0	0
Others	2008-09	0	0	0	0
	2007-08	1	0.06	0.50	0.11
Total	2008-09	155	19.44		
	2007-08	201	53.46		

(d) Commodity wise Analysis of claim paid (Including Court):

Claims paid on Account of	Year	Number	Amount (Rs. in lakhs)	Per cent To Total Number	Per cent To Total Amount
Grains & Pulses	2008-09	2	4.93	1.29	25.36
	2007-08	4	4.55	1.99	8.51
Iron & Steel	2008-09	0	0	0	0
	2007-08	1	0.25	0.50	0.47
Cotton piece & Goods	2008-09	7	0.46	4.52	2.37
	2007-08	22	9.63	10.95	18.01
Chemicals & Manure	2008-09	2	0.19	1.29	0.98
	2007-08	1	0.15	0.50	0.28
Coal & Coke	2008-09	2	2.45	1.29	12.60
	2007-08	4	7.35	1.99	13.75
P. O. L.	2008-09	3	6.56	1.93	33.74
	2007-08	3	7.43	1.49	13.90
Others	2008-09	139	4.85	89.68	24.95
	2007-08	166	24.10	82.58	45.08
Total	2008-09	155	19.44	..	..
	2007-08	201	53.46	..	..

(e) Court Cases Disposal (Excl. Accident Cases)

Details	2007-2008	2008-2009	Per cent Variation
Opening Balance	..	383	406 6%
Registration	..	88	62 (-) 30%
Transferred cases	..	0	0
Total	..	471	468 (-) 1%
Compromised out of court	..	2	1 (-) 50%
Decreed	..	46	42 (-) 9%
Dismissed	..	15	47 213%
Otherwise	..	2	9 350%
Total Disposal	..	65	99 52%
Closing Balance	..	406	369 (-) 9%

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

RCT	Opening Balance	Registration	Total	Disposal	Closing Balance
RCT/MAS	24	7	31	13	18
RCT/ERS	5	0	5	2	3
RCT/SBC	10	1	11	9	2
Other Railway RCT cases.	187	1	188	5	183
Civilsuits	9	0	9	5	4
Consumer Forum cases.	133	45	178	63	115
Appeal cases in high courts & Supreme courts.	38	8	46	2	44
Total	406	62	468	99	369

(g) Accident cases (Section 124)

RCT	Opening Balance	Registration	Total	Disposal	Closing Balance
RCT/MAS	6	0	6	6	0
RCT/ERS	2	2	4	4	0
Appeal cases in high courts	15	8	23	3	20
Total	23	10	33	13	20

(h) Accident cases (Section 124-A)

RCT	Opening Balance	Registration	Total	Disposal	Closing Balance
RCT/MAS	475	173	648	226	422
RCT/ERS	190	66	256	130	126
RCT/SBC	30	3	33	29	4
Other Railway RCT Cases	37	15	52	6	46
Appeal cases in High Courts	63	111	174	19	155
Total	795	368	1163	410	753

(i) P. S. Us :

RCT'S	Opening Balance	Registration	Total	Disposal	Closing Balance
RCT/MAS	6	3	9	5	4
RCT/ERS	0	0	0	0	0
RCT/SBC	4	0	4	4	0
Other Railway RCT cases.	36	1	37	2	35
Appeal cases in high courts	5	1	6	1	5
Total	51	5	56	12	44

(j) Military cases/Govt. cases

	Military Cases	Govt. Cases
Opening Balance	0	1
Registration	27	15
Re-opened	3	3
Total	30	19
Disposal	27	17
Closing Balance	3	2

(k) F. C. I. : Reconciliation for the period 2007-08 has been completed. Further reconciliation for the period 2008-09 is under progress.

(l) Computerisation of Claims Offices

Installation and Implementation has been completed over Southern Railway, Work is being done on the web-enabled software right from Registration/Dealing of Claim Cases right upto disposal, enabling generation of relevant letters and reports at every stage.

There is the MIS designed to suit Railway Board's requirements to view the performance of Zonal Railways as well as one for ZONAL RAILWAY requirements. This has been done with the twin objective of bringing transparency and efficiency in the working of claims offices. Recently software to generate online PCDO/MCDO to MT is being developed and uploading of the same is under process.

Infrastructures at RCT/MAS Goods Refund Office/HQ have been installed and are functioning as part of web-enabled Claims Project, Phase-II. Connectivity to RCT/ERS is under progress.

The Subsidiary Claims Office at Tiruchchirappalli has been kept out of web-enabling owing to the downward trend in registration of claims. Railway Board has been advised accordingly.

8. Claims Prevention-Preventive Measures

(a) N. R. Cell

A total of 189 wagon load consignments were disposed off by the NR Cell of this Railway thereby averting claims to the tune of Rs. 1,994 lakhs. 1,276 Parcel cases were also disposed by the NR Cell during the same period.

	Wagonloads			Parcels		
Details	2007-2008	2008-2009	%Variation	2007-2008	2008-2009	%Variation
Opening Balance	14	24	71	40	42	5%
Registration	242	174	(-) 28	1,687	1282	(-) 24%
Total	256	198	(-) 23	1,727	1324	(-) 23%
Disposal	232	189	(-) 19	1,685	1276	(-) 24%
Closing Balance	24	9	(-) 63	42	48	14%
Amount saved (Rs. in Lakhs)	2841	1994	(-) 30	594	279	(-) 53%

(b) C. P. Checks :

During the year 2008-09, 917 Claims 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.

(c) C. P. Week/Seminar :

Claims Prevention Weeks were observed over Madurai Division from 11th July 2008 to 17th July 2008 with a view to educate the staff concerned on various aspects of Claims Prevention.

Claims Prevention seminar was held on 18th July 2008, Representatives from all allied Departments like Operating, Mechanical and Security have attended the Seminars to offer their valuable suggestions and to discuss the issues, which need immediate attention.

As per Board's directive, special drive for curtailing over carriage of parcels over Southern Railway was organised. 19 trains which are more vulnerable for over carriage of parcels were identified and inspectors were nominated to monitor these trains from interchange points to destinations.

Parcel supervisors of major parcel offices were invited to the monthly Claims Prevention Meetings and suitable instructions were given to them ensure that the parcels are unloaded at the respective stations without being over carried.

A web based ASP Dynamic Page entering, editing and deleting the data on "Over Carriage of Parcels" by Divisions has been got developed for efficient handling of parcels loaded in the SLRs/Brakevans. The data fed into the system enables generation of formatted reports, which help in targeting the defaulting Railways, Divisions and Stations for remedial action. The reports generated are very useful during the Inspections by Officers and Inspectors.

Inter-Railway CP Checks were organised by CCO at New Delhi and Hazrat Nizamuddin over Northern Railway, Secunderabad, Kacheguda, Hyderabad and Vijayawada Over South Central Railway by Dy. CMM/C at Bangalore/P. O. and by SCM/C at Bangalore over South Western Railway.

SLR Checks were conducted on Train Nos. 6032, 2616, 2622 and 2618 at New Delhi and Hazrat Nizamuddin over Northern Railway.

Unconnected wagons : During the year 3 Unconnected wagons were disposed thereby avoiding claims to the tune of Rs. 7 lakhs-

	2007-08	2008-09
Opening Balance	0	0
Registration	12	3
Total	12	3
Disposal	12	3
Closing Balance	0	0
Amount Saved (Rs. in lakhs)	58	7

9. Lost Property Office

(a) Position of Unconnected/Undelivered Parcels :

1,710 unconnected/undelivered parcel cases were disposed by means of connection & delivery/auction/departmental use.

	2007-08	2008-09
Opening Balance	425	303
Registration	1,924	1760
Total	2,349	2063
Disposal	2,046	1710
Closing Balance	303	353

b) Auction at lost property offices :

LPO	Opening balance	Registration	No. of Auction conducted	No. of items disposed through Auction	Amount realised (Rs.)
SO/MAS	132	773	21	446	7,73,195
ED	02	94	4	91	19,667
CBE	47	348	12	286	81,825
CLT	21	253	7	232	1,11,775
MAQ	12	35	4	25	7,590
ERS	3	59	7	24	84,740
TVC	52	109	8	72	69,045
QLN	13	58	6	51	58,057
MDU	6	11	2	4	2,120
TPJ	15	20	3	19	20,168
Total	303	1760	74	1,270	12,28,182

10. Refund on Goods Traffic

Sl. No.	Description	April 2007 to March 2008	April 2008 to March 2009
1.	No. of cases carried forward from previous year.	2,789	511
2.	No. of cases received and re-opened during the year.	6,766	11,566
3.	No. of cases disposed off during the year	9,044	9,430
4.	No. of cases on hand at the end of the year and carried forward to the next year.	511	2,647
5.	No. of cases outstanding for over 3 months	107	269
6.	No. of cases outstanding for over 6 months	262	90
7.	No. of claims pending in court at the end of the year.	1	..
8.	Average time taken to settle the claims (in days)	22.43	23.87

The registration of refund claims during April 2008 to March 2009 is 11,566 as against 6,766 cases registered during April 2007 to March 2008.

The number of refund cases pending at the end of March 2009 is 2647 as against 511 during March 2008.

The number of cases pending 3 to 6 months is 269 at the end of March 2009 as against 107 at the end of March 2008.

The number of cases pending over 6 months is 90 at the end of March 2009 as against 262 at the end of March 2008.

The pending cases are closely monitored and consistent efforts are taken for early disposal of pending cases and outstanding has been considerably brought down.

11. Refund on Coaching/Parcel Traffic

	2008-2009	
	Passenger Traffic	Parcel Traffic
No. of cases carried forward from the previous year.	916	Nil
No. of cases received and re-opened during the year.	1,02,786	28
No. of cases disposed off during the year	95,383	28
No. of cases on hand at the end of the year and carried forward to the next year.	8,319	Nil

12. Ticketless Travel

The comparative statistics are given below :-

Year	Total No. of Cases of ticketless travel	Amount realised there from (Rs.)
2007-2008	3,43,277	12,43,84,059
2008-2009	4,32,786	16,57,49,220

13. Ticket Checking Details of Detection of Irregular travel

The cases of irregular travel detected, excess charges recovered and cases dealt with the Court during 2008-2009 are as under :-

Rs.

1. No. of Passengers found travelling irregularly	4,32,786
2. No. of cases unbooked/partially booked luggage	2,83,745
3. Total Penalty earnings from (1) and (2) above	20,59,27,027
4. Gross ticket checking earnings including non-penalty earnings.	50,12,98,347
5. No. of Passengers prosecuted	69,014
6. No. of Passengers imprisoned	90
7. No. of Passengers fined	68,513
8. No. of Passengers let-off..	411
9. Amount of judicial fine realised	1,36,69,945
10. No. of mendicants ejected	23,697
11. Total cost incurred on ticket checking staff	79,84,64,141

14. Mobile Booking Service

Nil

15. Road Competition

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

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

Freight :

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

Sl. No.	Commodities	2008-09	
		Tonnage 000's	Earnings (Rs. in Crores)
1	Imported Coal..	7,589	331.01
2	Imported Fertilizer ..	1,240	60.67
3	Imported Limestone ..	292	10.97
4	Imported Palmolein ..	54	7.15

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	
	2007-08	2008-09	2007-08	2008-09
a. High Rated Traffic	279	370	18.68	36.75
b. Programmed Traffic	26,747	30,221	936	1,127
c. Low rated Traffic	1,829	1,683	96	98
d. Other Revenue Traffic	1,176	1,480	93	101

3. The originating goods loading over Southern Railway during 2008-09 was 33.705 Million Tonnes as against 30.031 Million Tonnes during 2007-08. Similarly the originating goods earnings during 2008-09 were Rs. 1,417.95 Crores as against Rs. 1181.45 Crores during 2007-08.

4. Loading of High rated commodities and other goods.

There was considerable increase in loading under the following commodities in 2008 - 09 compared to 2007 - 08.

Sl.	Commodity	2007-08	2007-08	2008-09	2008-09
		Tonnes	Earnings in lakhs	Tonnes	Earnings in lakhs
1	Palmolein	45925	571.34	48935	804.84
2	Charcoal	32549	314.20	97118	939.62
3	Edible Oil	18367	208.87	54346	1247.11
4	Sand	3175	12.83	27950	67.99
5	Rubber	313	4.54	2591	34.83
6	Sago	512	0.47	10310	137.97
7	Limestone	706801	4777.47	899470	5151.00
8	Gypsum	199765	1842.40	313611	2045.82
9	Sugar	87036	934.68	113073	1135.33
10	Gunnies	0	0	4743	57.88
11	Clinker	0	0	5522	16.59
12	Iron & Steel Divn.B.	50676	148.52	107128	1160.84
13	China Clay	1254	19.46	4502	61.97
14	Alloy Steel	0	0	17368	76.97

5. Automobile Traffic :

As a result of continuous liaison and effective marketing contacts with Automobile Traders, Southern Railway has moved 42 rakes with total revenue of Rs.5.25 Crores during 2008 - 09.

6. Parcel

The Parcel loading during 2008-09 was 4.41 lakhs of tonnes with an earnings of Rs. 108.90 Crores as against 4.49 lakhs of tonnes with earnings of Rs.107.32 Crores during 2007-08.

Under FSLR, AGC and round trip VP leasing scheme, Southern Railway had earned Rs. 45.82 Crores during the year 2008-09.



VII. MECHANICAL ENGINEERING

Stock on Line

(a) Rolling Stock

The particulars of Rolling Stock on line owned at the end of March 2009 as compared to the previous year :—

As on 31st March 2009	Locomotives						Passenger and other Coaching Vehicles		Rail Car in units		Locomotives 4 EMU in 4 Coach units	
	Broad Gauge			Metre Gauge								
	Elec. A.C. Locos	DSL. Locos	DSL. Hyd. Locos	Elec.	Steam	DSL. Locos						
	B. G.	M. G.	B. G.	M. G.	B. G.	M. G.						
Previous year 2007–2008	279	290	56	—	10	68	4,865	535	—	—	279	222
Current year 2008–2009	290	306	49	..	10	38	5047	387	—	—	290	224

As on 31st March 2009	Wagon in Units		Travelling Cranes					
			BROAD GAUGE			METRE GAUGE		
	B. G.	M. G.	Steam	Diesel	Hand	Steam	Diesel	Hand
Previous year 2007–2008	10,565	680	4	3	7	9	..	1
Current year 2008–2009	10,118	550	4	3	7	9	..	1

2. Additions and Renewal

Particulars	BROAD GAUGE			METRE GAUGE		
	Additions	Replacement		Additions	Replacements	
LOCOS :						
Steam
Diesel	16	..	..	..
Electric	19	..	..	..
COACHES :						
Bogies	254	..	..	..
Transferred from other Railways
Locos	20	..	..	..
Coaches (Motor)	2	..	..	..
EMU Trailer Coaches	—
Transferred to other Railways	34	7	..	..
WAGONS :						
Bogies	53	..	..	..

(a) Wagon built by wagon building firms and Railway Workshops (2008–2009)

Name of the Firm	Type	No. in Vehicle units	No. in 4-Wheelers units
Broad Gauge Stock	Nil	Nil	Nil
Modern Industries Ltd.	BOBSN	11	—
Hindustan Engg., and Industrial Ltd.	BRNAHS	20	—
	BTPN	11	—
M/s. BESCO., Ltd.	BFNS	9	—
	BRNAHS	1	—
M. G. Stock	Nil	Nil	Nil

(b) Goods Stock Transferred from other Railways

Railway	No. of vehicles	No. in 4-Wheeler units
	Nil	

3. Locomotives on line with their Tractive efforts

(a) Steam Locos

As on 31st March 2009	Broad Gauge		Metre Gauge	
	No.	Total Tractive Efforts (Kgs.)	No.	Total Tractive Efforts (Kgs.)
Previous Year 2007–2008	10	1,18,812
Current Year 2008–2009	10	1,18,812

(b) Diesel Locomotives

As on 31st March 2009	Broad Gauge		Metre Gauge	
	No.	Horse Power	No.	Horse Power
Previous Year 2007–2008	325	7,51,145	68	95,200
Current Year 2008–2009	335	8,06,305	38	53,200

(c) Electrical Locomotives

Particulars	Broad Gauge	
	Nos.	Horse Power
As on 31st March Previous Year 2007-08.	WAM-4-46	1,67,440
	WAP1-16	60,800
	WAP 4-95	4,80,700
	WAG 7-61	3,05,000
	WAG5A/HA-61	2,34,850
Current year 2008-09	WAM 4-39	1,41,960
	WAP1-17	64,600
	WAP 4-104	5,26,240
	WAG 7-71	3,55,006
	WAG5A/HA-59	2,27,150

5. Goods Vehicles and carrying capacity

As on 31st March current year 2008-09	No. in units	Public Traffic Wagons		Capacity in tonnes	Special Rly. including Brake wagons (No. in units)	Dept. goods Service wagons (No. in units)	Total vehicles (No. in units)
		Covered Wagons	Open Wagons				
		Capacity in tonnes	No. in units				
Broad Gauge	5762	298977.8	3317	185818.6	1037	2	10118
Metre Gauge (Incl. N. M. Railway)	452	15889.9	50	1802.7	35	22	559

6. Diesel Rail Cars

As on 31st March 2009	(A) Motor Coaches No. in units	Total Seats	(B) Trailer Coaches No. in units	Total seats
Previous year 2007-08				
Broad Gauge
Metre Gauge
Narrow Gauge
Current year 2008-09				
Broad Gauge
Metre Gauge
Narrow Gauge

Electrical Multiple Units

Particulars	Motor Coaches	Horse Power	Trailer Coaches	Horse Power
As on 31st March 2007-2008				
Broad Gauge	222	23754	447	43774
As on 31st March 2008-2009				
Broad Gauge	224	23968	450	44068

7. Travelling Cranes

As on 31st March 2009	Steam Cranes No. in units	Capacity in Tonnes	Diesel Cranes No. in units	Capacity in Tonnes	Hand Cranes No. in units	Capacity in Tonnes
Broad Gauge Previous year 2007-08.	4	20T X 3 75T X 1	3	140T X 3	7	10T X 6 5T X 1
Broad Gauge Current year 2008-09.	4	20T X 3 75T X 1	3	140T X 3	7	10T X 6 5T X 1
Metre Gauge Previous year 2007-08.	9	35T X 9	..	..	1	10T X 1
Metre Gauge Current year 2008-09.	9	35T X 9	..	..	1	10T X 1

4. Coaches Vehicles and seating capacity (Except EMU)

As on 31st March current year 2008-09	Pass. Coaches (No. in units)	Other Coaching Vehicle (No. in units)	Total Seats			
			Air condition	Ist Class	II Class Berths	Seats
Broad Gauge	4609	426	40293	2224	126872	307974
Metre Gauge (including N. M. Railway)	363	24	22	464	2690	55182

8. Rolling Stock by Age Group

(a) Locomotives (Steam)

Age Group	Broad Gauge				Metre Gauge			
	Previous Financial Year		Current Financial Year		Previous Financial Year		Current Financial Year	
	2007-2008		2008-2009		2007-2008		2008-2009	
	No.	%	No.	%	No.	%	No.	%
1 to 5
6 to 10
11 to 15
16 to 20
21 to 25
26 to 30
31 to 35
36 to 40
Over 40	10	100.00	10	100.00
Total	10	100.00	10	100.00

(b) Electric Locomotive (Broad Gauge)

Age Group Years		2007-2008		2008-2009	
		Nos.	Nos.	Nos.	Nos.
Less than 1 Year	..	19	6.81	21	7.24
1 to 5 Years	..	38	13.62	50	17.24
6 to 10 Years	..	91	32.61	48	16.55
11 to 15 Years	..	34	12.19	64	22.07
16 to 20 Years	..	40	14.34	56	19.31
21 to 25 Years	..	18	6.45	14	4.83
26 to 30 Years	..	26	9.32	20	6.90
Above 30 Years..	..	13	4.66	17	5.86
Total	..	222	100.00	290	100.00

(ii) Trailer Coaches

Age Group Years	2007-2008		2008-2009	
	Nos.	Percentage	Nos.	Percentage
Less than 1 year	53	11.86	6	1.33
1 to 5	202	45.19	203	45.11
6 to 10	87	19.46	83	18.44
11 to 15	68	15.21	120	26.67
15 to 20	14	3.13	16	3.56
21 to 25	..	..	..	..
26 to 30	23	5.15	22	4.89
Total	447	100.00	450	100.00

General Services

(i) *Passenger Coaches (EMU's) a. Metre Gauge*

Age Group Years Motor Coaches	2007-2008		2008-2009	
	Nos.	Percentage	Nos.	Percentage
Broad Gauge				
Less than 1 year	27	12.16	3	1.34
1 to 5	97	43.69	101	45.09
6 to 10	48	21.63	43	19.20
11 to 15	26	11.71	45	20.09
16 to 20	5	2.25	16	7.14
21 to 25	..	..	..	..
26 to 30	19	8.56	16	7.14
Total	279	100.00	224	100.00

(a) Overaged Steam Locomotives on line as on 31st March 2009 (Current Year) Steam

BROAD GAUGE											METRE GAUGE										
Type of Stock	Stock condemned in current financial year 2007–2008										Stock condemned in current financial year 2008–2009										
	Total Stock			Stock Overaged				Total Stock			Stock overaged				Total Stock			Stock overaged			
	Non-Re-placed	Re-placed	Total	Non-Re-placed	Re-placed	Total	Per-centage of over-aged to total	Non-Re-placed	Re-placed	Total	Non-Re-placed	Re-placed	Total	Non-Re-placed	Re-placed	Total	Per-centage of over-aged to total	Non-Re-placed	Re-placed	Total	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Passenger	4	6	10	4	6	10	..	..	..	..
Mixed Goods	
Light Goods and Miscellaneous.	
Total	4	6	10	4	6	10	..	..	..	..

(b) (i) Over aged BG & MG Electric Locos on line as on 31st March 2009 — Nil.

(ii) Number of locomotives put off and new locomotives put on line during the year (Current Financial Year) 2008-2009.

Particulars	BROAD GAUGE			METRE GAUGE		
	Steam	Diesel	Electric (A/C.)	Steam	Diesel	Electric (A/C.)
1. No. of locomotives taken off the line	..	13	2	..	30	..
2. No. of locomotives placed on line	..	16	18	..	..	..
3. No. of locomotives permanently transferred from other Railway.	..	7	1	..	..	..
4. No. of locomotives permanently transferred to other Railway.	..	1	7	..	..	..

(c) Overaged Coaching Stock on line as on 31st March 2009

Sl. No.	Particulars	Total stock owned			Stock Over Aged			Percentage of overaged to total Stock on live	Stock condemned during the current financial year 2008-2009			
		Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total		Non-Replaced	Replaced	Total	
BROAD GAUGE—COACHES												
1.	Air-conditioned class	708	..	708	..	..	0	0.00	6	..	6
2.	Upper Class (First)	41	..	41	..	..	..	0.00	..	..	..
3.	Composite Class	..	..	..	..	..	..	0.00	..	..	..
4.	Lower Class (Second)	3860	..	3860	19	..	19	0.37	28	..	28	
5.	Tourist Car Inspection Carriage and Dining Cars.	124	..	124	1	..	1	0.01	..	..	..
6.	All other coaching Vehicles excluding these under item 5.&PPS.	302	..	302	23	..	23	0.45	2	..	2	
Total		..	5,035	..	5,035	43	..	43	0.83	36	..	36

Trailer Coaches DMU., DTC & TC Coaches

Diesel Power Coaches DPC	..	..	..					
Trailer Coaches TC	48	..	48								
Diesel Trailer Coaches DTC	6	..	6								
Total	..	54	..	54							

Rail Bus
YRB

1

0

1

Particulars	Total stock owned			Stock Over Aged			Percentage of overaged to total stock on line	Stock condemned during the current financial year 2008-2009		
	Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total		Non-Replaced	Replaced	Total
METRE GAUGE—COACHES										
1. Air-conditioned Class.	1	..	1	..	..	..	0.00	15	..	15
2. Upper Class (First)	15	..	15	1	..	1	0.28	7	..	7
3. Composite Class	..	..	..	..	..	..	0.00	..	..	..
4. Lower Class (Second)	319	..	319	11	..	11	3.08	95	..	95
5. Tourist Car Inspection Carriage and Dining Cars.	9	..	9	..	..	..	0.00	12	..	12
6. All other coaching Vehicles excluding those under item. 5 & PPS	12	..	12	5	..	5	1.40	13	..	13
Total	356	..	356	17	..	17	4.76	142	..	142

DIESEL RAIL CARS

Driving Trailers YRD	..	..	..					
Trailers YRD	..	..	..					
Total	..	..	..					

(d) Overaged wagon stock on line as on 31st March 2009 (Broad Gauge wagons)

Type of Wagons	Stock on Line			Stock Overaged			Percentage of overaged to total stock on line	Stock condemned during the current financial year 2008-09		
	Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total		Non-Replaced	Replaced	Total
BROAD GAUGE—WAGONS										
1. Covered	4,921	..	4,921	34	..	34	0.33	173	..	173
2. Open	3,317	..	3,317	15	..	15	0.14	104	..	104
3. Brake-Vans	260	..	260	8	..	8	0.07	31	..	31
4. Tank Wagons	841	..	841	49	..	49	0.48	144	..	144
5. Special Stock	777	..	777	41	..	41	0.40	45	..	45
6. Railway Service Wagons.	2	..	2	..	..	..	0.00	3	..	3
Total	10,118	..	10,118	147	..	147	1.42	500	..	500

METRE GAUGE—WAGONS										
1. Covered	321	..	321	47	..	47	8.54	84	..	84
2. Open	46	..	46	46	..	46	8.36	..	..	..
3. Brake-Vans	9	..	9	..	..	..	0.00	4	..	4
4. Tank Wagons	126	..	126	26	..	26	4.72	41	..	41
5. Special Stock	26	..	26	25	..	25	4.54	..	..	..
6. Railway Service Wagons.	22	..	22	15	..	15	2.72	1	..	1
Total	550	..	550	159	..	159	28.88	130	..	130

Particulars	BROAD GAUGE		METRE GAUGE	
	Coaches	Wagons	Coaches	Wagons
Number put off the line during the year 2007-2008.	72*	500	149*	130
Number put on line during the year 2008-2009.	254	53	1	..

* Including Transfer and Conversion

10 (a) Locos under or Awaiting Repairs

10 (a) Locomotives under or Awaiting Repairs															
Details		Year	Average No. on line			Average under Repairs		In Mechanical Workshops		Stabled in Sheds awaiting workshop repairs		In Shed and Transportation Workshops		In Transit	
			No.	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Previous Financial Year			2007-2008												
			BROAD GAUGE												
Diesel Electric	259.20	22.03	8.50	7.94	3.06	..	..	14.09	5.44	..	..
Diesel Hydraulic	49.00	3.13	6.39	0.42	0.86	..	..	2.71	5.53	..	..
Electric	268.82	21.79	8.11	6.01	2.24	..	..	15.78	5.87	..	..
Total	577.02	46.95	8.14	14.37	2.49	..	..	32.58	5.65	..	..
Previous Financial Year			2007-2008												
			METRE GAUGE												
Steam	8.00	2.17	27.10	1.08	13.50	..	..	1.09	13.63	..	..
Diesel Electric	57.00	1.50	2.63	0.22	0.39	..	..	1.28	2.25	..	..
Diesel Hydraulic		
Electric		
Total	65.00	3.67	5.65	1.3	2.00	..	..	2.37	3.65	..	..
Current Financial Year			2008-2009												
			BROAD GAUGE												
Diesel Electric	269.10	21.25	7.90	5.07	1.88	..	..	16.18	6.01	..	..
Diesel Hydraulic	49.00	4.06	8.29	1.0	2.04	..	..	3.06	6.24	..	..
Electric	281.24	22.39	7.96	8.09	2.88	..	..	14.30	5.08	..	..
Total	599.34	47.7	7.96	14.16	2.36	..	..	33.54	5.60	..	..
Current Financial Year			2008-2009												
			METRE GAUGE												
Steam	8.00	3.06	38.25	1.81	22.63	..	..	1.25	15.63	..	..
Diesel Electric	35.17	0.66	1.88	0.66	1.88	..	..	0	0.00	..	..
Diesel Hydraulic		
Electric		
Total	43.17	3.72	8.62	2.47	5.72	..	..	1.25	2.90	..	..

(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	No.	Percentage
<u>BROAD GAUGE</u>													
<i>Passenger Coaching Vehicles—</i>													
2007–2008	4,422	319.62	7.23	194.56	4.40	27.50	0.62	29.87	0.68	67.69	1.53
2008–2009	4,510	316.60	7.02	189.38	4.20	28.34	0.63	33.95	0.75	64.93	1.44
<i>Other Coaching Vehicles</i>													
2007–2008	257	21.50	8.37	11.43	4.45	1.24	0.48	5.85	2.28	2.98	1.16
2008–2009	254	21.24	8.36	10.83	4.26	0.71	0.28	5.93	2.33	3.77	1.48
<i>All Coaching Vehicles—</i>													
2007–2008	4,679	341.12	7.29	205.99	4.40	27.92	0.60	35.72	0.76	70.67	1.51
2008–2009	4,764	337.84	7.09	200.21	4.20	29.05	0.61	39.88	0.84	68.70	1.44

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	No.	Percentage
<u>METRE GAUGE</u>													
Passenger Coaching Vehicles—													
2007–2008	475	51.37	10.81	19.87	4.18	0.07	0.01	8.02	1.69	23.41	4.93
2008–2009	403	12.83	3.18	5.83	1.45	0.00	0.00	7.00	1.74	0.00	0.00
Other Coaching Vehicles—													
2007–2008	24	2.64	11.00	2.64	11.00	0.00	0.00	0	0.00	0.00	0.00
2008–2009	10	0.00	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
All Coaching Vehicles—													
2007–2008	479	54.01	11.28	22.51	4.70	0.07	0.01	8.02	1.67	23.41	4.89
2008–2009	413	12.83	3.11	5.83	1.41	0	0.00	7	1.69	0.00	0.00

(c) Wagons under or awaiting Repairs

Year	Average No. on line (FWUs)	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>									
2007–2008	22,389	1,389.33	6.21	193	0.86	434	1.94	762.33	3.40
2008–2009	10,317	526.17	5.10	89	0.86	190	1.84	247.17	2.40
<u>METRE GAUGE</u>									
2007–2008	609.21	3.5	0.57	0	0.00	3.5	0.57	0	0.00
2008–2009	87.17	0	0.00	0	0.00	0	0.00	0	0.00

11. Rolling Stock Turned out after repairs from workshops

(a) Locomotives — (Steam Loco)—Metre Gauge

Details	Heavy repairs Periodical overhaul	IOH	Special repairs	Total	Equivalent Std. I Class Unit repairs	Average number of days taken for POH	
						Calendar days	Working days excluding Sundays and Shop Holidays
Previous Financial Year 2007–2008	..	..	..	..	..	..	..
Current Financial Year 2008–2009	1@	..	..	1	2.00	340	248

The kilometres between periodical overhaul of loco No. 37395.

Previous Financial Year 2007–2008 ..

Current Financial Year 2008–2009 .. 23756 Kms.

(@) One X class Steam Loco No. 37,395 attended at GOC for POH cum-conversion into oil firing system and rake pinion system.

(b) Over aged coaching and wagon stock on line as on 31st March 2009

I. Under or awaiting repairs

Particulars in a Locos	Average on line		Average under repairs		In Mech. W. Shop Car W. Shop		Stabled in the awaiting W. Shop		Installed and transportation W. Shop		Locos in Transit	
	Nos.	%	Nos.	%	Nos.	%	Nos.	%	Nos.	%	Nos.	%
Broad Gauge												
2007–2008	268.82	100	21.79	8.10	..	..	..	..	21.79	8.10	..	..
2008–2009	281.24	100	22.39	7.96	..	..	..	..	22.39	7.96	..	..

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

2007–2008	218.75	100	20.36	9.31	..	..	..	..	20.36	9.31	..	..
2008–2009	224.16	100	16.18	7.21	..	..	..	..	16.18	7.21	..	..

EMU Metre Gauge—Nil

Rolling Stock Turned out after repairs from workshops

(b) Coaches in Vus.

Shop	Activity	Previous Financial Year 2007–2008				Current Financial Year 2008–09			
		Periodical Over hauling	Off Schedule		Total	Periodical Over hauling	Off Schedule		Total
			Over Rs. 100	Below Rs. 100			Over Rs. 100	Below Rs. 100	
BROAD GAUGE									
Perambur Carriage Works —									
Passenger Coaches	PCVs	2,063	55	0	2,118	2,138	7	0	2,145
Other Coaching	OCVs	212	12	0	224	210	3	0	213
	Total	2,275	67	0	2,342	2,348	10	0	2,358
Perambur Loco Works—									
Passenger Coaches	PCVs	514	0	0	514	540	0	0	540
Other Coaches	OCVs	0	0	0	0	0	0	0	0
	Total	514	0	0	514	540	0	0	540
	DTC/TCs of DEMU	54	0	0	54	59	0	0	59
Golden Rock Workshops —									
Passenger Coaches	PCVs	695	0	0	695	836	0	0	836
Other Coaches	OCVs	27	0	0	27	32	0	0	32
	Total	722	0	0	722	868	0	0	868

Shop	Activity	Previous Financial Year 2007-2008			Current Financial Year 2008-2009				
		Periodical Over hauling	Off Schedule		Total	Periodical Over hauling	Off Schedule		Total
			Over Rs. 100	Below Rs. 100			Over Rs. 100	Below Rs. 100	
METRE GAUGE									
Gold Rock Workshop									
Passenger Coaches	PCVs	139	0	0	139	96	0	0	96
Other Coaching Vehicles	OCVs	0	0	0	0	0	0	0	0
	Total	139	0	0	139	96	0	0	96

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

Shop	2007-2008			2008-2009		
	Periodical Overhaul	Off. Schedule	Total	Periodical Overhaul	Off. Schedule	Total
BROAD GAUGE						
Perambur Carriage Works	3,304	0	33,040	3,276	0	3,276
Golden Rock Shops	106	0	106.0	0	0	0
	Total ..	3,410	0	3,410	3,276	0
METRE GAUGE						
Golden Rock Shops	6	0	6.0	..	..	0

Note.—PCVs—Passenger Coaches, OCVs—Other Coaches

(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
	2007-2008	2008-2009	2007-2008	2008-2009
Passenger Coaches—				
Perambur Carriage Works ..	13.4	13.6	..	..
Perambur Loco Works ..	13.5	12.5	..	..
Golden Rock ..	18.8	18.6	15.3	12.3
Other Coaching Vehicles—				
Perambur Carriage Works ..	14.9	13.1	..	..
Perambur Loco Works ..	..	..	..	..
Golden Rock ..	16.8	16.6	29.0	..
Wagons—				
Perambur Carriage Works ..	6.7	6.3	..	..
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
	2007-2008	2008-2009	2007-2008	2008-2009
	(Actuals)	(F. M.)	(Actuals)	(F. M.)

Locomotives**(i) Unit repair cost (per loco)**

Driving power car of DEMU	1358	1571	No Activity	
LW/PER				
Dsl. Hyd. LW/PER	2607	3129		
AC Electric LW/PER	4998	6898		
Dsl. Elec. GOC	6020	8678	4220	6912

(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
	2007-2008	2008-2009	2007-2008	2008-2009
	(Actuals)	(F. M.)	(Actuals)	(F. M.)
(ii) Average cost of repairs per passenger carriage (in FWU's)—PCVs—POH				
Carriage Works/Perambur	175	252	No Activity	
Loco Works/Perambur	257(*)	659		
Golden Rock	215	291	160	217
Driving Trailer coach of DEMU – POH LW/PER	462	574		
Trailer coach of DEMU – POH LW/PER	431	518	No Activity	
(iii) Average cost of repairs per other coaching vehicles (in FWU's)—OCVs				
Carriage Works/Perambur	125	185	No Activity	
Loco Works/Perambur ..	No Activity		..	..
Golden Rock Workshops	160	220	102	147
(iv) Average cost of repairs per wagon (FWU's)—Wagons				
Carriage Works/Perambur	173	195	No Activity	
Golden Rock Workshops	145	..	..	..

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

	Years	
	2007-2008	2008-09
(i) Average cost of maintenance and repairs per locomotive (Electrical)		
Broad Gauge	24.08
Metre Gauge
(ii) Average cost of maintenance and repairs of EMU coach unit		
Broad Gauge	14.82
Metre Gauge

12. Locomotives coaches and wagons overdue Repairs

Rolling Stock	BROAD GAUGE				METRE GAUGE			
	Previous Financial		Current Financial		Previous Financial		Current Financial	
	Year as on 31st		Year as on 31st		Year as on 31st		Year as on 31st	
	March 2008		March 2009		March 2008		March 2009	
	No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage
(i) Locomotives—								
(a) Steam	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
(b) Diesel Electric ..	Nil	Nil	Nil	Nil	6	8.82	1	2.63
(c) Diesel Hydraulic ..	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
(ii) Coaches—								
(In VU's)	66	1.36	196	4.52	6	40.0	234	65.9

13. Engine Failures (Diesel Locos)

(Kms. in thousands)

Year	Total No. of engine failures	Average Kms. per engine failures	<u>Failure under various services</u>			<u>Engine kms. per engine failure (various services)</u>		
			Passenger	Mixed	Goods	Passenger	Mixed	Goods
<u>BROAD GAUGE</u>								
Diesel Electric Locos—								
Previous Financial Year 2007–2008	105	3,34,523	105	..	..	2,45,079	@@	92,02,259*
Current Financial Year 2008–2009	101	3,42,086	99	..	2	2,52,732	@@	47,65,134*
Diesel Hydraulic Locos—								
Previous Financial Year 2007–2008	..	8806*	..	..	..	@@	@@	8506*
Current Financial Year 2008–2009	..	14,693	..	..	..	@@	@@	14,693
<u>METRE GAUGE</u>								
Diesel Electric Locos—								
Previous Financial Year 2007–2008	..	19,05,614*	..	..	..	18,84,707*	@@	@ 20,907*
Current Financial Year 2008–2009	..	13,03,990	..	..	..	12,99,316*	@@	4,674*
Diesel Hydraulic Locos—								
Previous Financial Year 2007–2008	..	..	..	..	..	..	..	..
Current Financial year 2008–2009	..	.....	..	..	..	..	..	..

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

@@ There is no services.

Engine Failures (Electrical) 2007–2008 and 2008–2009

(Kms. in thousands)

Year	Total No. of engine failure	Average Kms. per engine failure	Failure under various services			Engine kms./per engine failure various services		
			Passenger	Mixed	Goods	Passenger	Mixed	Goods
BROAD GAUGE								
2007–2008	39	12,70,829	30	..	9	10,57,860	..	19,80,725
2008–2009	64	8,08,465	48	..	18	7,26,335	..	10,27,477

Energy and Amount particulars of traction and Non-traction

Sl. No.	Description	Year	
		2007-08	2008-09
1	Traction consumption in million units	783.09	862.737
2	Non-traction consumption in million units	129.322	130.713
3	Total in million units	912.419	993.450
4	Traction amount paid in crores	347.65	398.087
5	Non-traction amount paid in crores	63.93	66.10
6	Total in crores	411.58	464.097
7	Traction Average rate Rs./kwh	4.44	4.61
8	Non-traction average rate Rs./kwh	4.94	5.05
9	Total	4.69	4.67

Engine Failures (Steam) 2007-08 and 2008-09 Coonoor/N. M. Railway

Year	Total No. of engine failures	Average Kms. per engine failure	Engine Failures under various services			Engine Kms. per engine failure various services		
			Passenger	Mixed	Goods	Passenger	Mixed	Goods
2007-2008	2	11,183	2	..	..	11,183	..	..
2008-2009	5	4,611	5	..	..	4,611	..	..

Engine Failures (Diesel Locos)

Total No. statistical Engine Failures	..	B. G.	102	M. G.	0
Average Kms. per Engine Failures (in Lakhs)	..	B. G.	3.72	M. G.	0

14. Hot Boxes

Year	Total No. of Hot Boxes	Responsibility			Percentage variation over previous year	No. per One million wagon Kms. and Ten Million Vehicle Kms.
		Southern Railway	Other Railway	Un fixed		

(I) Coaches—

BROAD GAUGE						
Previous Financial Year 2007-2008	1	..	1	..	(-) 91	0.03
Current Financial Year 2008-2009	6	3	3	..	(+) 100	0.37
METRE GAUGE						
Previous Financial Year 2007-2008	..	..	..	..	..	..
Current Financial Year 2008-2009	..	..	..	..	..	..
(ii) Goods—						
BROAD GAUGE						
Previous Financial Year 2007-2008	19	10	9	..	(-) 100	0.04
Current Financial Year 2008-2009	16	8	8	..	(-) 84.2	0.07
METRE GAUGE						
Previous Financial Year 2007-2008	..	..	..	..	..	..
Current Financial Year 2008-2009	..	..	..	..	..	..

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

(-) Denotes decrease in the figures.

Shed-wise yearly outage-2008-09 B. G. (Mechanical)

Month	TARGET					ACTUAL				
	ED	GOC	ERS	TNP	TOTAL	ED	GOC	ERS	TNP	Total
April ..	38.3	17.3	14.8	4.8	75.1	44.7	19.2	12.4	2.7	79.0
May ..	36.6	16.7	17.0	4.8	75.1	42.3	18.7	14.5	3.7	79.2
June ..	36.3	16.2	17	4.8	74.3	39.3	18.6	16.2	3.6	77.7
July ..	36.1	15.8	17.0	4.8	73.7	38.8	18.5	15.9	4.0	77.2
August ..	36.0	20.5	14.8	2.4	73.7	40.5	22.9	16	1.9	81.3
September ..	35.9	22.3	13.7	1.2	73.6	39.5	24.7	15.2	0.6	80.00
October ..	38.2	18.5	14.6	2.1	73.4	37.25	19.3	15.1	2.2	73.81
November ..	37.3	19.4	13.8	2.9	73.4	38.8	21.0	15.3	2.7	77.8
December ..	37.3	19.4	13.8	2.9	73.4	40.3	21.5	15.5	2.3	79.6
January ..	41.8	22	10.4	2.9	77.1	47.1	23.3	10.3	1.9	82.6
February ..	50.8	15.2	12.9	4.0	82.9	54.9	17.5	13.2	3.7	89.3
March ..	48.9	19.7	8.4	3.0	80.0	51.4	22.9	9.1	2.7	86.1
Total ..	473.5	223.5	168.2	40.6	905.7	514.8	248.1	168.7	32.0	963.6
Average ..	39.5	18.6	14.0	3.4	75.5	42.9	20.7	14.0	2.7	80.3



VIII. ELECTRICAL ENGINEERING

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

The following are the figures pertaining to the years 2007-08 and 2008-09 and kWh in Millions :—

Sources of Power	Generated (sent out from busbars)	Purchase		Total	
		2007-08	2008-09	2007-08	2008-09
Energy Purchase from State Electricity Board in million Unit					
(a) General Service					
(i) Tamil Nadu	107.433	108.567			
(ii) Andhra Pradesh.. ..	0.751	0.842			
(iii) Karnataka	1.497	2.065	129.322	130.713	
(iv) Kerala	19.641	19.239			
(b) Traction Services					
(i) Tamil Nadu	590.820	636.530			
(ii) Andhra Pradesh.. ..	83.012	84.134			
(iii) Karnataka			783.097	862.737	
(iv) Kerala	109.263	142.073			
Total			912.419	993.45	

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	2007-08	2008-09
(i) Energy Purchase	In Million kWh	912.419	993.45	
(ii) Total Cost	(Rs. in Crores)	411.58	464.09	
(iii) Average rate per kWh		4.51	5.08	

3. Analysis of total electrical energy consumed for various services in terms of percentage of the total energy purchase 2008-09 (2007-2008)

	Percentage
a. Major workshops (15.766 Million Units)	1.58
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 (10,886 mu) ..	1.09
(ii) Service Buildings (53.466 mu) ..	5.38
(iii) Yard lighting (3.061 mu) ..	0.31
(iv) Hospitals (5.190 mu) ..	0.52
c. Rent returning buildings (This includes RMS Offices, Railway Police Out Post Vendors stalls, Railway quarters, Platform contractors, consumption due to neon sign boards displayed at station premises, etc. for which rent is recovered (42.344 mu):	
i. Staff quarters and staff welfare buildings, (33.815 mu).	3.41
ii. Buildings leased to outsiders. (8.529 mu)	0.86
d. Traction Services (862.737 Million Units)	86.85

4. Generating and Purchasing Stations as on 31st March 2009

Generating Stations : There are no generating stations on this Railway, However, diesel generating sets of capacities varying from 10kVA to 320kVA are provided at important installations as standby source of supply during interruption of supply from the State Electricity Board sources. Following are the particulars :—

Particulars	No. of DG sets	Cap. in kVA	Purchasing Stations of Supply Points	
			HT	LT
As on 31st March 2007	219	17,268	76	2,965
As on 31st March 2008	219	17,268	76	2,965

5. Electrical Traction Distribution (2008-09)

Particulars	Upto 31st March 2008	Upto 31st March 2009
	BG	BG
1. Total Route km Electrified	1,692	1,890
2. Total Track km Electrified	3,925	4,226

6. A. C. Electric Locomotives

Particulars	Broad Gauge (average for the year)	
	2007-08	2008-09
(i) Total No. of Engine on line	268.82	281.24
(ii) No. of Engine in use (average per day).	..	..
a. Goods Service	108.23	110.29
b. Passenger Service	129.60	141.53
c. Shunting .. ..	..	..
d. Departmental .. ..	..	..
e. Banking .. ..	..	..
f. Spare	1.26	1.08
Total average per day	239.09	252.90
(iii) Engine km/day/Engine in line	572	583
(all services).		
(iv) Engine km/Day/Engine in use	524	571
(all services).		
(v) Total No. of failure		
a. Passenger Service	30	48
b. Goods Service	9	18
(vi) Engine km/Engine failure		
a. Passenger Service	1057860	726335
b. Goods Service	1980725	1027477
(vii) Total km (Passenger and goods service).	49562318	53358689

7. Suburban Electric Multiple Unit Stock—Broad Gauge

	2007-08	2008-09
Holding as on 31st March 2009		
a. In terms of 4 Units (4 Coaches WAU-1)	222	224
b. In terms of Coaches (Motor Coaches and trailer Coaches).	447	450
c. Break up of Coaches :—No. of Coaches		
Motor Coaches ICF Coaches Total	Total	Total
224 450	669	674
(i) Kms. run in terms of single units	27169649	29568620
(ii) Total No. of Failure	8	9
(iii) Kms/Motor Coaches failure ..	3396206	3285402

8. Electrical General Services Particulars

	As on 1-4-2008	As on 1-4-2009
(i) Generating, Converting and transforming Nos. Plants.	350	349
Transformer capacity in KVA	155595	155315
(ii) Total connected loads of installations purchasing power from outside sources in kw. (in thousands)	167992	173422
(iii) Electrification of stations including block huts	725	725
(iv) Total No. of Motors (other than pump motors in service in major workshops, TL depots, divisional electrical repair shops, Printing Press, etc.,)		
Nos.	3636	3659
Capacity	21594	21745
(v) Electrical driven pump		
Nos.	1531	1601
Capacity	16347	15924

(vi)	Electrified Quarters	Nos.	34039	34028
	Lights		159688	165991
	Fans		78540	80007
	Plugs		61596	69678
(vii)	Service Buildings			
	Lights		107653	111298
	Fans		33971	34078
	Plugs		38635	43937
(viii)	AC plants and refrigeration's equipments			
	AC Plants	Nos.	2063	2221
	Capacity	Tons	6330	4795.75
	Refrigerators	Nos.	244	266
(ix)	Water coolers	Nos.	719	763
	Capacity	Ltrs.	89793	91552
(x)	Air Compressors	Nos.	54	87
	Capacity of Motors in	HP	2106	2705.5
(xi)	Welding sets	Nos.	634	737
	Capacity in	Amps	125584	105640
(xii)	Battery Chargers	Nos.	1325	1095
	Capacity in	Amps	69514	38805
(xiii)	Other installations, Miscellaneous viz., Geysers, Water distilling plants, Etc., Nos.		480	480
(xiv)	Flood light towers in yards :- Nos.		327	306
	No. of Towers		1425	1100
	No. of Projectors			
	Wattage	KW	703	740
(xv)	Length of Transmission line	KM	2264.84	2178.84
(xvi)	Power line Crossings	Nos.	3065	2909

8.A. Train Lighting and Air-conditioning

(a) Train lighting— Population of AC coaches as on 31st March 2009 is furnished below for comparison :—

Sl. No.	Type of coaches	Population			
		As on 31-3-2008		As on 31-3-2009	
		B. G.	M. G.	B. G.	M. G.
1	FAC	6	..	9	..
2	FACCW	44	6	44	1
3	ACCW	203	9	202	3
4	CZAC	27	..	27	..
5	ACCN	346	..	359	..
Total		652	15	641	4

(b) Shatabdi/ Jan Shatabdi Exp./Garibrath Exp.Coaches—

1	FCZACEN	1	..	1	..
2	CZACEN	9	..	9	..
3	WLRRM	3	..	3	..
4	CZ ACJ	4	..	4	..
5	ACCNH	30	..	30	..
6	CZACH	9	..	9	..
7	WLRRMDAC	6	..	6	..
Total		62	..	62	..

(c) Introduction of New Coach Services during 2008–2009

Sl. No.	Train No.	From	To	Type of A. C. Coach	Frequency	Date of Introduction
1	6609/6610	CBE	NCJ	GSCN-2	Daily	28-07-08
2	2639/2640	MAS	SBC	GS-1	Daily	24-07-08
3	2671/2672	MAS	MTP	ACCN-1	Daily	01-11-08
4	2694/2693	TN	MS	WFC-1	Daily	22-09-08
5	6309/6310	ERS	PNBE	GSCN-2	..	06-10-08
6	6125/6126	MS	JU	GNCN-1	Weekly	04-10-08
7	6332/6331	TVC	CSTM	ACCN-1	Weekly	08-11-08

(d) Introduction of New Trains from 1-04-08 to 31-03-09

1	6713/6714 Exp.	Chennai Egmore	Rameswaram	ACCN-1 ACCN-2	Daily	02-07-08
2	731/732 & 733/734	Tirunelveli	Tiruchendur	..	Daily	28-09-08
3	186	Vellore	Chennai Beach	..	Daily	22-12-08
4	6735/6736	Chennai Egmore	Tiruchendur	ACCN-1, ACCN-1	Weekly Ex. TCN-Thursday Ex. MS-Friday	12-02-09

Introduction of Incentive Scheme

Progress of introduction of Incentive Scheme :—

Sl. No.	Position as on 31st March 2008	Name of Workshops	
		Perambur	Ponmalai
1	Total strength to be brought under incentive.	1160	338
2	Total No. of men put on incentive in any month during the year.	918	307
3	Balance yet to be covered	242	37
4	Probable date by which the remaining men are to be covered.	The non-incentive men are utilized for non-repeated nature of work and the percentage is more. As and when necessity arises this men will be covered.	
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 fitting, Laptop charger, extra fans emergency lights etc., DEMU and EMU coaches are POH ed at LTL.	
6	Average bonus earned per head per day.	53.81	69.65Ps.
7	Average increase in productivity during the year 2008–09 the period to the introduction of incentive scheme (In units).	589 Units (CW and LW are maintenance/service charges).	In AC 10 units of BG AC coaches increased

9. Financial Position-Electrical Department

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

(Figs. in Lakhs of Rs.)

Demand Number and Description	Final grant 2008-09	Budget grant 2009-10
Demand No. 5		
Repairs and Maintenance of Motive Power (Electric Loco)	9673	10424
Demand No. 6		
Repairs and Maintenance of Carriages and Wagons- EMU, TL and AC	16524	21448
Demand No. 7		
Repairs and Maintenance of Plants and Equipments.	10371	11269
Demand No. 8		
Operating Expenses-Rolling stock and Equipments.	15522	16649
Demand No. 10.		
Operating Expenses-Fuel for Electric Traction.	39060	39561
Demand No.11		
Staff Welfare and Amenities - Supply of Energy for Power & lighting (J 580)	1518	1744
Total	92668	101095

B. Works Budget:—

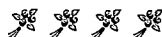
(Figs. in Lakhs of Rs.)		
Demand Number and Description	Final grant 2008-09	Budget grant 2009-10
Plan Expenditure works controlled buy CEE/MAS (Electrical Departments)		
1. Traffic Facilities	162.48	20.00
2. Other Electrical Works	2,121.78	2,267.28
3. Workshops	242.33	116.70
4. Staff Amenities	468.46	73.00
5. Passenger Amenities	1,233.10	321.10
6. Machinery and Plants	412.75	262.62
7. Rolling Stock	780.37	904.19
8. Other Specified Works	89.32	18.75
9. Road Safety work	22.30	149.27
Total	5,532.89	4,133.42

10. Route/Track kilo metre energized in 2008-09**(i). CRS inspection done during the year 2008-09**

Section	RKM	TKM	Dt. of CRS inspection	CRS sanction No. and Name
VM-ALU	110.17	142.84	11& 12-12-08	R. 12047/3/2008- SR Dt. 15-12-08.
TCR-GUV	20.000	21.814	25-2-09	R. 12047/1/2009 SR Dt. 6-3-09.

(ii). 25 kV energisation during the year 2008-09

Section	RKM	TKM	Dt. of CRS inspection
KKPM-KTTR	14-696	21.10	01-04-08 (Test Charge)
KTTR-TPJ	36	64.42	01-04-08 (Test Charge)
TCR-GUV	20.888	21.814	16-02-09



IX. SIGNAL AND TELE-COMMUNICATION

1. General. — The over all performance of Signal and Tele-communication Installations continued to be satisfactory consistent with the Increase in assets consequent on the execution of numerous planned works.

2. Signalling.—The distribution of inter-locked stations and those provided with Rudimentary Interlocking on the Railways are as under—

Gauge As on	Inter-locked stations				Non-Inter-locked stations				Total No. of Block Stations	
	Std. III		Std. I		Rudimentary		Without Rudimentary			
	31st March 2008	31st March 2009	31st March 2008	31st March 2009	31st March 2008	31st March 2009	31st March 2008	31st March 2009	31st March 2008	31st March 2009
Broad Gauge	354	367	56	56	1	1	2	2	413	426
Metre Gauge	0	0	32	24	13	13	2	2	47	39
Total	354	367	88	80	14	14	4	4	460	465

Note.— 1. This excludes flag & Halt stations but includes block huts.

2. Stations in automatic territory where emergency cross over exists and worked from the premises are included.

3. Stations in automatic territory where there are no points but provided with signals and track circuits are treated as non-block stations and hence are not included in the list of block stations.

(B) Method of Train Working.—Various systems of train working in vogue with number of block sections as on 31st March 2009 Gauge wise along with corresponding figures for 31st March 2008 are given below :—

Serial No.	System of Train Working	Broad Gauge		Metre Gauge		Total	
		31st March 2008	31st March 2009	31st March 2008	31st March 2009	31st March 2008	31st March 2009
1.	Single Line Token Instrument (No. of Block section)	13	14	70	39	83	52
2.	Tokenless Block Instrument (No. of Block section)	235	249	0	0	235	249
3.	Paper Line Clear Ticket	—	—	—	—	—	—
a.	Single Line	—	—	—	—	—	—
b.	Double Line	—	—	—	—	—	—
4.	Lock and Block Instrument (No. of Block section)	122	108	0	0	122	108
5.	Automatic Signalling in KMs.						
a.	Track Kilometres	819.80	969.46	0.00	0.00	819.80	969.46
b.	Route Kilometres	351.80	425.66	0.00	0.00	351.80	425.66
6.	Intermediate Block Signalling in Kms.	83.67	83.67	0	0	83.67	83.67
7.	One Engine Only System	—	—	—	—	—	—
8.	Other Systems						
a.	Continuous Track Circuiting.. (Other than Auto signalling)	46.71	46.71	0	0	46.71	46.71
b.	Twin Single Line	165.36	165.36	0	0	165.36	165.36
c.	Train Staff Ticket System	—	—	—	—	—	—

(C) Type of Signalling as on current year 31st March 2009—

Serial No.	Route	Total No. of stations			Total
		Double Line	Single Line	Multiple Line	
(i)	(a) Two Aspect Semaphore Signalling—				
	'A' Route	..	..	..	..
	'B' Route	..	..	..	..
	Others (including MG)	..	32	..	32
	(b) Two Aspect Colour Light Signalling—				
	'A' Route	..	..	..	..
	'B' Route	..	..	..	..
	Others (including MG)	..	..	..	..
(ii)	Multiple Aspect Signalling—				
	(a) Multiple Aspect Upper Quadrant Signalling.				
	'A' Route	..	..	..	..
	'B' Route	..	..	..	..
	Others (including MG)	..	37	..	37

Route	Total No. of stations			Total
	Double Line	Single Line	Multiple line	
(b) Multiple aspect colour light signalling—				
'A' Route	9	..	..	9
'B' Route	100	56	..	156
'C' Route	19	3	15	37
'D' Route	54	51	..	105
'E' Route	..	89	..	89
MG	..	..	..	0

(D) Power Signalling—

	Total No. of stations on			
	A' Route	'B' Route	Others	Total
(i) Route Relay Inter-locking	0	21	31	52
(ii) (a) Panel Inter-locking	1	104	187	292
(b) Panel Inter-locking (SSI)	8	13	1	22
(c) Centralised Operation by SM's Control	..	12	18	30
(iii) Centralised Traffic Control	..	..	..	..

(E) Details of Tracking Circuiting

Total No. of stations as on 31st March 2009

- (i) Track circuiting of all reception Lines .. 426 Stations.
 (ii) Track circuiting of all main run through lines other than (i) above. .. 29 Stations.
 (iii) Track circuiting from starter to Advanced starter/Block Section Limit Board. .. 432 Stations.
 (iv) Track circuiting of lines other than (i), (ii) and (iii) above like Siding, restoration of starter signals by Track circuiting. .. NIL

(F) (i) Classification of stations as on 31st March 2009—

Route	Special Class				'A' Class				'B' Class				'C' Class				Total	
	Double line		Single line		Double line		Single line		Double line		Single line		Double line		Single line			
	B. G.	M. G.	B. G.	M. G.	B. G.	M. G.	B. G.	M. G.	B. G.	M. G.	B. G.	M. G.	B. G.	M. G.	B. G.	M. G.		
BG	'A'	4	..	..	..	..	..	..	..	5	..	..	..	..	..	..	..	9
	'B'	26	..	..	..	..	..	..	..	66	..	55	..	8	..	1	..	156
	'C'	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	37
	'D'	1	..	2	..	..	..	..	..	51	..	49	..	2	..	..	..	105
	'E'	..	..	..	..	..	..	..	..	..	..	119	..	..	..	..	..	119
MG	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	0
Total	68	0	2	..	..	..	..	..	..	122	..	223	..	10	..	1	..	426
MG	Q	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	R2	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	2
	R3	..	..	..	..	..	..	..	..	..	..	..	8	..	..	..	..	8
	S1	..	..	..	..	..	..	..	..	..	..	..	15	..	..	..	..	15
	S2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	S3	..	..	..	..	..	..	..	..	..	..	..	14	..	..	..	..	14
Total	..	..	..	..	..	..	..	..	..	..	..	39	..	..	..	..	..	39

(F) (ii) Classification as on 31st March 2009—

Gauge	Special Class		'A' Class		'B' Class		'C' Class		Total
	Double line	Single line	Double line	Single line	Double line	Single line	Double line	Single line	
Broad Gauge	68	2	..	..	122	223	426
Metre Gauge	39	..	39
Total Number of stations									465

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

(Total No. of Gates as on 31st March 2009)

Sl. No.	Route/Safety Devices provided	Special Class		'A' Class		'B' Class		'B 1' Class		'C' Class		Total	
		W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.
(1)	Lifting Barriers	78	124	65	58	115	87	18	32	163	296	439	597
(2)	Telephone	78	124	65	58	115	87	18	32	163	296	439	597
(3)	Warning Bell	12	2	15	4	16	17	0	1	27	38	70	62

(Total No. of Gates as on 31st March 2009).—Route Wise

Sl. No.	Route/Safety Devices provided	Special Class		'A' Class		'B' Class		'B 1' Class		'C' Class		Total	
		W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.
1.	'A' Route—												
(a)	Lifting Barriers	2	2	1	0	9	9	0	0	3	11	15	22
(b)	Telephone	2	2	1	0	9	9	0	0	3	11	15	22
(c)	Warning Bell	0	0	1	0	0	3	0	0	4	9	5	12
2.	'B' Route—												
(a)	Lifting Barriers	23	35	24	7	30	21	6	6	49	61	132	137
(b)	Telephone	23	35	24	7	30	21	6	13	49	61	132	137
(c)	Warning Bell	4	2	11	1	10	8	0	0	13	12	38	23
3.	'C' Route—												
(a)	Lifting Barriers	3	0	3	1	9	6	0	0	3	9	18	16
(b)	Telephone	3	0	3	1	9	6	0	0	3	9	18	16
(c)	Warning Bell	0	2	0	0	0	0	0	1	0	10	0	
4.	'D' Route—												
(a)	Lifting Barriers	38	73	14	15	12	27	7	8	45	87	116	210
(b)	Telephone	38	73	14	15	12	27	7	8	45	87	116	210
(c)	Warning Bell	0	0	0	2	0	0	0	5	4	7	4	
5.	'E' Route—												
(a)	Lifting Barriers	12	14	11	24	44	21	4	6	57	104	128	169
(b)	Telephone	12	14	11	24	44	21	4	6	57	104	128	169
(c)	Warning Bell	1	0	1	3	3	6	0	1	4	13	9	23
6.	MG Route—												
(a)	Lifting Barriers	0	0	12	11	11	3	1	5	6	24	30	43
(b)	Telephone	0	0	12	11	11	3	1	5	6	24	30	43
(c)	Warning Bell	0	0	0	1	0	0	0	0	0	1	0	

(ii) Non-Interlocked Gates—

Route	Total No. as on 31st March 2009					Total
	Special Class	'A' Class	'B1' Class	'B2' Class	'C' Class	
Trunk Route and Important Main Line :	5	6	..	..	203	214
1. 'A' & 'B' Route on B. G.	..	..	..	..	..	..
2. 'Q' & 'R' Route on M. G.	..	..	..	..	..	..
Others ..	22	31	6	10	1695	1764
Total	27	37	6	10	1898	1978

(iii) Unmanned Gates.—As on 31st March 2009

Sl. No.	Section	No. of Unmanned Gates		
(1)	Single line	..	..	1,134
(2)	Double line	..	..	61
Total	..	..	..	1,195

H. Tele-communication Narrative Report—2008–09

(I) Exchanges

Sl. No.	Exchanges	Auto Exchanges	Inter-com.	Remarks
(1)	Total No. of Exchanges	69	51	..
(2)	Telephone Lines (in service)	14,059	2,690	..

(II) Traffic Control Including Area Control

Sl.No.	Division	Section	Route Kms
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i) BSNL Rented Aerial Lines

1.	Salem	Coimbatore – Mettupalayam	35.51
2.	Salem	Mettupalayam – Udhagamandalam	45.88
3.	Palakkad	Pollachi – Palakkad	57.87
4.	Palakkad	Shoranur – Nilambur	65.80
5.	Tiruchchirappalli	Villupuram – Vellore Cantonment	150.23
6.	Madurai	Tenkasi – Tirunelveli	72.02
7.	Madurai	Virudunagar – Manamadurai	66.55
8.	Madurai	Sengottai – Quilon	94.29
9.	Madurai	Madurai – Bodinayakanur	89.74
Total			677.89

ii). Railway owned

1.	Thiruvananthapuram	Thiruvananthapuram – Nagercoil	71.05
2.	Thiruvananthapuram	Nagercoil – Tirunelveli	73.29
3.	Thiruvananthapuram	Nagercoil – Kanyakumari	15.51
4.	Tiruchchirappalli	Villupuram – Mayiladuthurai	121.00
Total			280.85

RE-QUAD TELECOM CABLES

1.	Chennai	Chennai – Arakkonam	68.48
2.	Chennai	Arakkonam – Jolarpettai	144.54
3.	Chennai	Pattabiram – Pattabiram Military Siding 'E' Depot	6.00
4.	Chennai	Arakkonam – Renigunta	65.80
5.	Chennai	Chennai – Tirumayilai	8.66
6.	Chennai	Villivakkam – Annanagar	3.09
7.	Salem	Jolarpettai – Salem	120.04
8.	Salem	Salem – Erode	59.25
9.	Salem	Erode – Irugur – Coimbatore – Podanur	100.54
10.	Salem	Irugur – Podanur	16.77
11.	Salem	Salem – Mettur Dam	40.25
12.	Palakkad	Podanur – Palakkad	48.55
13.	Palakkad	Palakkad – Shoranur	44.20
Total			726.17

Sl.No.	Division	Section	Route Kms
OFC ALONE			
1.	Chennai	Chennai – Renigunta	134.28
2.	Chennai	Chennai Beach – Thirumayilai	8.68
3.	Salem	Salem – Erode	59.25
4.	Salem	Erode – Coimbatore	100.54
5.	Salem	Irugur – Podanur – Coimbatore	16.77
6.	Palakkad	Podanur – Palakkad	48.55
7.	Palakkad	Palakkad – Shoranur	44.20
8.	Tiruchchirappalli	Villupuram – Pondicherry	38.08
Total			450.35

Railway 4 QUAD ALONE

1.	Tiruchchirappalli	Tiruvarur – Karaikudi	148.99
Total			148.99

Railway 6 QUAD ALONE

1.	Tiruchchirappalli	Thanjavur – Kumbakonam	39.35
2.	Tiruchchirappalli	Kumbakonam – Mayiladuturai	31.10
3.	Tiruchchirappalli	Vridhachalam – Cuddalore	57.32
4.	Salem	Vridhachalam – Salem	138.88
5.	Palakkad	Shoranur – Nilambur	65.80
6.	Thiruvananthapuram	Trissur – Guruvayur	22.63
7.	Madurai	Madurai – Manamadurai	48.02
8.	Madurai	Manamadurai – Rameswaram	113.47
9.	Madurai	Manamadurai – Karaikudi	61.16
10.	Madurai	Karaikudi – Tiruchchirappalli	90.45
11.	Madurai	Virudunagar – Tenkasi	122.16
12.	Madurai	Tenkasi – Sengottai	7.85
13.	Madurai	Tirunelveli – Tiruchendur	61.21
Total			859.40

OFC + 4 QUAD

1.	Chennai	Chennai – Gudur	136.00
2.	Chennai	Chennai Beach – Villupuram	162.76
3.	Chennai	Thirumayilai – Tiruvanniyur-Vellachery	12.00
4.	Salem	Erode – Tiruchchirappalli	141.20
5.	Palakkad	Shoranur – Calicut – Mangalore	307.07
6.	Thiruvananthapuram	Shoranur – Trisur – Ernakulam	104.85
7.	Thiruvananthapuram	Ernakulam – Kollam	155.50
8.	Thiruvananthapuram	Kollam – Thiruvananthapuram	64.88
9.	Thiruvananthapuram	Ernakulam – Alleppey – Kayankulam	100.34
10.	Tiruchchirappalli	Villupuram – Tiruchchirappalli	179.53
11.	Tiruchchirappalli	Tiruchchirappalli – Thanjavur – Tiruvarur	103.80
12.	Madurai	Tiruchchirappalli – Madurai	154.66
Total			1622.59

OFC + 6 QUAD

1.	Chennai	Chengalpattu – Arakkonam	62.96
2.	Thiruvananthapuram	Thiruvananthapuram – Nagercoil	71.03
3.	Thiruvananthapuram	Nagercoil – Tirunelveli	73.29
4.	Thiruvananthapuram	Nagercoil – Kanyakumari	15.51
5.	Tiruchchirappalli	Mayiladuthurai – Tiruvarur	47.91
6.	Tiruchchirappalli	Tiruvarur – Nagore	30.37
7.	Tiruchchirappalli	Katpadi – Vellore Cantonment	9.90
8.	Madurai	Madurai – Tuticorin – Tirunelveli	197.71
9.	Madurai	Dindigul – Pollachi	121.20
Total			629.88

CONTROL SECTIONS

Division	Section
Chennai	Chennai – Tiruvallur
	Chennai – Tiruvallur – Katpadi
	Chennai – Katpadi – Jolarpettai
	Chennai – Arakkonam – Renigunta
	Chennai – Gudur
	Chennai Beach – Villupuram,
	Chengalpattu – Arakkonam
	Chennai Beach – Tambaram,
	Chennai Beach – Velachery

Salem	Salem - Jolarpettai, Salem - Metturdam, Salem - Vriddhachalam
	Salem - Erode - Coimbatore - Podanur - Kinathukadavu, Coimbatore - Udhagamandalam
	Salem - Karur - Tiruchchirappalli, Karur - Dindigul
	Palakkad - Shoranur, Palakkad - Pollachi - Kinathukadavu - Palakkad - Podanur
Palakkad	Palakkad - Shoranur - Cannanore, Shoranur - Nilambur - Palakkad - Cannanore - Panambur
Tiruvananthapuram	Thiruvananthapuram - Kollam - Ernakulam
	Kollam - Ernakulam - Shoranur, Ernakulam - Alleppey - Kayankulam - Kochi Harbour Terminus
	Kollam - Thiruvananthapuram - Kanyakumari - Nagercoil - Tirunelveli
	Tiruchchirappalli - Villupuram - Katpadi, Villupuram - Pondicherry, Cuddalore - Villupuram, Vriddachalam - Cuddalore
Tiruchchirappalli	Tiruchchirappalli - Vriddachalam - Villupuram, Tiruchchirappalli - Thanjavur - Kumbakonam - Mayiladuthurai - Cuddalore
	Tiruchchirappalli - Tanjavur - Tiruvarur - Nagore, Tiruvarur - Mayiladuthurai, Tiruvarur - Thiruthurai - Karaikudi
	Madurai - Dindigul - Tiruchchirappalli - Dindigul - Pollachi - Madurai - Virudunagar - Vanchi Maniyachi, Tuticorin - Vanchi Maniyachi - Tirunelveli,
	Madurai - Manamadurai - Rameswaram, Manamadurai - Virudunagar, Manamadurai - Karaikudi - Tiruchchirappalli, Virudunagar - Tenkasi, Tenkasi - Quilon, Tenkasi - Tirunelveli, Tirunelveli - Tiruchendur.
Madurai	

BSNL PHONE AT STATIONS

Provision of BSNL phones at all stations.

S.No.	Division	Number of Stations Provided with BSNL Phones
1	Chennai	104
2	Salem	79
3	Palakkad	65
4	Thiruvananthapuram	71
5	Tiruchchirappalli	87
6	Madurai	111
	Total	517

MICROWAVE

Network	No. of Stations	Route Kilometre
Digital Microwave	25	934.75

RAILNET CONNECTIVITY

S.No.	Connectivity	No. of locations Provided with Railnet
1	LAN connectivity	56 Nodes
2	Dialup connectivity	8 Nodes
3	Internet Gateway Connection	10 MB through RCIL

PRS & UTS

Division	PRS Locations	UTS Locations
Chennai	38	86
Salem	15	18
Palakkad	23	28
Tiruvananthapuram	29	29
Tiruchchirappalli	23	18
Madurai	28	27
Total	156	206

PASSENGER AMENITIES

S.No.	Telecom Items	Numbers
1.	PC based PA system	93
2.	IVRS*	66
3.	Clocks [QUARTZ]	738
4.	Coach Guidance System	19
5.	Train Display Board	101
6.	Conventional PA System	218
7.	Touch screens	90
8.	POET	37
1.	SATELLITE PHONES	12

FOIS ,CMS & COIS

1.	FOIS	48 Locations
2.	COIS	53 Locations
3.	CMS	26 Locations
4.	V SAT Connectivity	18 Locations

VOICE RECORDER IN CONTROL OFFICE

Voice Recorders are provided on all the Section controls in all divisions.

CUG PHONES

Southern Railway migrated from BSNL CUG to AIRTEL CUG scheme (as per Railway Board letter 2004/Tele/TN/3/Pt dated 15.2.08) on 1st July 2008. 5,076 CUG Sims cards distributed to all divisions, Headquarters Office and Construction wing.

VIDEO CONFERENCE

Video conferencing in HeadQuarters with all divisions are connected through OFC Ethernet media with ring protection.

PERFORMANCE OF TELECOMM CIRCUITS

S. No.	Name of The Circuit	Cummulative For Current Year Performance %
a.	Average Efficiency of MW network	
	Inter Railway	99.97
	Intra Railway	99.98
b.	Average Efficiency of Control Circuits on Railway OFC	
	Circuit	99.19
	Operating	99.97
c.	Average Efficiency of Control Circuits on Railway 4 Quad Cable	
	Circuit	99.92
	Operating	99.92
d.	Average Efficiency of Control Circuits on Railway 6 Quad Cable	
	Circuit	98.39
	Operating	99.95
e.	Average Efficiency of Control Circuits on Railway RE Cable	
	Circuit	99.08
	Operating	99.81
g.	Average Efficiency of Control Circuits (Railway OH Link)	
	Circuit	99.71
	Operating	99.84
h.	Average Efficiency of Control Circuits (BSNL OH Link)	
	Circuit	83.87
	Operating	96.93

3. MATTER RELATING TO TELECOMMUNICATION WORKS—OFC WORKS

Sl. Nos.	Description of Work	Year of Programme	Estimated cost Rs. (in lakhs)	Physical progress upto 31st March 2009	Remarks
1.	Tiruchchirappalli Jn. - Manamadurai Jn. 4QUAD cable.	1998 – 99	148.55 P1473	80%	Work Completed
2.	Manamadurai - Rameswaram - 6 Quad Cable	1998 – 99	187.11 P1473	90%	Work Completed
3.	Dindigul-Pollachi-Coimbatore-Palakkad (OFC & 6 Quad)	2004 – 05	848.41	60% DF4	Work is in progress
4.	Dindigul - Karur (OFC & 6 Quad)	2006 – 07	420.54 DRF	80%	Work is in progress.
5.	Madurai - Manamadurai - Rameswaram - OFC	2007 – 08	526.10 DF4	40%	Work is in progress.
6.	Salem - Jolarpettai Jn. - OFC work	2007 – 08	455.47 DRF	80%	Work is in progress.
7.	Arakkonam - Jolarpettai - 6 Quad cable	2007 – 08	420.54 DRF	76%	Work is in progress.
8.	Arakkonam - Renigunta - 6 Quad cable	2007 – 08	327.71 DRF	80%	Work is in progress.
9.	Coimbatore North - Mettupalayam, Mettupalayam - Udhagamangalam - (OFC & 6 Quad)	2007 – 08	434.53 DRF	40%	CBF - MTP - Tender awarded. MTP - UAM Tender yet to be awarded.
10.	Chennai - Jolarpettai - 6 Quad cable	2008 – 09	318.47 DRF	—	Tender is in process.
11.	Shoranur - Nilambur - OFC & 6 Quad cable	2008 – 09	421.13 DRF	30%	6 Quad cable laying completed and work is in progress.

4-MATTER RELATING To S&T / PROJECTS / CHENNAI

Para 3:- Major Signalling Development and Signalling Elements of Line Capacity Works Costing More than 20 Lakhs.

(a) Pure Signalling Works.

3(a) (i) the Position of Major Signalling Works at the end of Financial Year review is as under :-

Sl. No.	Name of Work	Sanctioned in the Year	Estimated cost in Lakhs of Rs.	Physical progress upto 31st March 2009	Remarks
1	Chennai Beach – Gummidipundi – Auxiliary Warning System (TPWS)	1998–99	5354.37 DF(4)	95%	Work completed at 40 rakes out of 41 rakes and work is in progress at balance rake. Testing in 7 rakes in progress.
2	Southern Railway - Advanced Starters at Stns. With LSS based starters (9 Stns)	1999–2000	55.66 DF(4)	50%	Work completed at 5 stations balance work is in progress at 4 stations.
3	Chennai, Palakkad, & Tiruvananthapuram, Divisions – Calling on signals and signal post type telephones at 17 Stns.	1999–2000	78.35 DF(3)	55%	Work completed and commissioned at 15 stations and work is in progress at balance 2 stations.
4	Chennai, Palakkad & Tiruchchirappalli Divisions- Calling on Signal with Post Telephones below Home Signal. (20 Stns.)	2000–01	122.8 DF(3)	25%	Work completed at 10 stations and balance work is in progress at 10 stations.
5	Chennai – Pattabiram & Chennai – Gummidipundi Improvement of Signalling arrangements by provision of Data Logger with remote monitoring (220 Nos.).	2000–01	374.21 DF (3)	100%	21 Nos of data loggers provided and commissioned and cable laying work is in progress for RTU between MAS-PAB and MAS-GPD sections.

Sl. No.	Description of Work	Year of Programme	Estimated cost Rs. (in lakhs)	Physical progress upto 31st March 2008	Remarks
6.	Southern Railway - Provision of Advanced starter where starters are working as Last Stop Signals. (10 Stations.)	2000-01	147.32 DF(4)	60%	Work completed at 9 stations and balance work is in progress.
7.	Pattabiram - Arakkonam - Audio frequency track circuit in lieu of conventional DC track circuit.	2000-01	1458.93 SRSF	80%	Detailed estimate is sanctioned and work is in progress.
8.	Chennai Division - Basin Bridge, Korukkupet & Vyasarpadi - Replacement of signalling gears	2001-02	532.26 SRSF	100%	Work completed at all stations.
9.	Chennai - Ambattur - Audio Frequency Track Circuit in lieu of conventional DC Track Circuit on Slow Lines.	2002-03	458.01 DRF	—	Consolidate estimate is sanctioned and work is in progress.
10.	Chennai Division - Improvement of Safety by Tripple Pole Lamps (200 Nos.) and enhancement of reliability of data logger (10 Nos.) and IPS (3 Nos.)	2002-03	27.60 DRF 138.60 DF (4)	80%	1) Estimate is sanctioned and work is in progress.
11.	Tiruchchirappalli Division:- Improvement of Safety by Triple Pole Lamp (200 Nos.) and replacement of Power supply equipment.	2002-03	61.22 DF(4)	70%	Work is in progress.
12.	Tiruvananthapuram Division - Improvement of Safety by Tripple Pole Lamp (150 Nos.) and enhancing of reliability by data logger (13 Nos.) & replacement of power supply equipment.	2002-03	33.60 DRF 157.07 DF(4)	60%	Work is in progress.
13.	Arakkonam - Renigunta - Replacement of signalling gears with centralised operation of points and signals (B route) (7 stations)	2002-03	1607.65 SRSF	85%	Replacement work completed and commissioned at 7 stations. BPAC work is in progress between TDK-RU section.
14.	Chennai & Madurai Division - Repl. of signalling gears with centralised operation of points & signals. (4 stations)	2002-03	1213.83 SRSF	100%	Work completed and commissioned.
15.	Ernakulam Town - Repl. of signalling gears with centralised operation of points & signals (A route) (4 stations)	2002-03	242.59 SRSF	100%	Work completed and commissioned.
16.	Palakkad Division - Repl. of signalling gears with centralised operation of points & signals (B route) (6 stations).	2002-03	1263.53 SRSF	92%	Replacement work completed and commissioned at all stations. BPAC work completed and work is in progress between SA-VRPD station.
17.	Palakkad Division - Perundurai, Ingur, Uttukuli, Somanur & Sulur - Repl. of signalling gears with centralised operation of points & signals. (B Route)	2002-03	958.53 SRSF	100%	Work completed and commissioned at all stations.
18.	Tiruvananthapuram Division - Repl. of signalling gears with centralised operation of points & signals (D route) (9 stations)	2002-03	1409.12 SRSF	90%	Work completed and commissioned at all stations and provision of BPAC work is in progress in 2 block sections.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2009	Remarks
19.	Erode - Karur - Fouling mark to fouling mark & fouling mark to block section limit track circuiting (D&E Routes) (10 stations)	2002-03	1291.61 SRSF	80%	Work completed at 10 stations in Madurai division and 5 stations in PGT division and 4 stations in TVC division. Work is in progress in 1 station in TVC division.
20.	Southern Railway - Fouling mark to fouling mark (run through) track circuiting (E Route) (20 stations)	2002-03	121.22 SRSF	63%	Work completed at 18 stations and balance work in progress at 2 stations.
21.	Southern Railway - Track circuiting with centralised operation of points & signals (56 stations)	2002-03	516.32 SRSF	80%	Estimate is sanctioned and work is in progress.
22.	Ennore & Gummidipundi - Replacement of signalling gears by Route Relay	2003-04	348.75 DRF	60%	Work completed at Ennore and work is in progress at Gummidipundi.
23.	Tiruchchirappalli - Dindigul - Enhancement of reliability & Replacement of power supply arrangements.	2003-04	40.00 DRF 40 DF(4)	80%	Provision of Data Loggers is commissioned at 10 Stations and provision of IPS arrangements is in progress.
24.	Palakkad Division - Track Circuiting FM-FM Loop Line, FM-BSL (Straight & Turnout) & Home - Top Point (Straight & Turnout) (E-Route)	2003-04	600.55 DF(4)	90%	Work completed at 6 stations and balance work is in progress at 2 stations.
25.	Tiruvananthapuram Division - Track Circuiting fouling mark to fouling mark, fouling mark to block section limits & home to top point (E-Route)	2003-04	77.95 DF(4)	—	Detailed estimate is sanctioned and tender schedules under finalisation.
26.	Madurai Division - Track Circuiting fouling mark to fouling mark, fouling mark to block section limits & home to top point (E-Route) (Main Line)	2003-04	142.60 DF(4)	100%	Completed
27.	Basin Bridge - Ambattur (fast lines) & Ambattur - Pattabiram (slow lines) - Audio Frequency Track Circuits in lieu of Conventional DC Track Circuits.	2003-04	1538.71 DRF	—	Detailed estimate is sanctioned by GM/S.Rly/MAS. The work is taken up based on the guidelines issued by RDSO and Railway Board. TCM in progress.
28.	Ernakulam - Shoranur - Palakkad - Erode - Chennai and Bangalore - Jolarpettai - Chennai - Anti Collision Device.	2003-04	7524.00 DF(4)	—	Board has directed to process the detailed estimate and get sanctioned KRCL has been asked to clarify feasibility of ACD to work in auto sections and arrangements for fixing.
29.	Tambaram - Villupuram - Enhancement of reliability by Data Logger (5 Nos.) with Replacement of power supply arrangements (7 Stations)	2003-04	146.00 DF(4)	40%	Detailed estimate sanctioned by ADRM/MAS. Work is in progress.
30.	Palakkad Division - Enhancement of reliability and Jolarpettai-Palakkad- Replacement of Power supply arrangements.	2003-04	194.00 DF(4)	50%	Detailed estimate is sanctioned and work is in progress.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2009	Remarks
31.	Gummidipundi – Gudur – Continuous Track Circuiting with Automatic Block Signalling (Quadrilateral) (A-Route)	2003-04	4196.22 DF(3)	100%	Work completed and commissioned at all stations.
32.	Villupuram – Tiruchchirappalli – Dindigul – Block Proving Axle Counter in Panel/ Route Relay Interlocked Sections (270.14 Km.) (34 Block Sections.)	2004-05	1395.68 DF (4)	30%	Detailed estimate is sanctioned and work is in progress.
33.	Jolarpettai – Podanur – Shoranur – Block Proving Axle Counter in Panel/ Route Relay Interlocked Sections (270.14 Km.) (35 Block Sections.)	2004-05	1115.13 DF(4)	10%	Detailed estimate is sanctioned and work is in progress.
34.	Shoranur – Ernakulam – Alleppey – Kayankulam – Tiruvananthapuram – Block Proving Axle Counter in Interlocked Sections (317 Km.-39 BS)	2004-05	1493.86 DF(4)	10%	Detailed estimate is sanctioned and work is in progress.
35.	Aralvoimoli, Valliyur & Nanguneri – Upgradation of Interlocking from Standard I to III	2004-05	141.31 DF(3)	20%	Detailed estimate is sanctioned.
36.	Ennore – Gummidipundi – Replacement of Conventional DC Track Circuit by Audio Frequency Track Circuit incl. Repl. of Sigg. Cables (32 Km.)	2004-05	1153.49 DRF	15%	Consolidate estimate is sanctioned and work is in progress.
37.	Quilon – Repl. of sigg. Gears with Route Relay Inter-locking & Centralised Operation at Kayankulam End.	2004-05	209 DRF	100%	Work completed and commissioned.
38.	Palakkad, Madurai & Tiruchchirappalli Divisions – Track Circuiting (involving Frequent Shunting) (8 Stations)	2004-05	561.84 DF(4)	—	Detailed estimate is sanctioned and tender schedules are under preparation.
39.	Chennai, Palakkad & Madurai Divisions – Track Circuiting (E-Route – 13 Stations)	2004-05	355.00 DF(4)	10%	Detailed estimate sanctioned. Work completed in MAS and MDU divisions. Contract awarded and work is in progress in PGT division.
40.	Chengalpattu – Villupuram – Block Proving by Axle Counter in Panel/ Route Relay Interlocked Section (102 Km. – 11 Block Sections)	2004-05	520.73 DF(4)	—	Detailed estimate is sanctioned and procurement of Quad cable and power cable are under process.
41.	Dindigul – Coimbatore – Pollachi - Palakkad - Repl. of BSNL Overhead Alignment by 6 Quad Cable (218 Km.)	2004-05	714.19 DF(4)	80%	Revised estimate is sanctioned and contract awarded.
42.	Irugur – Coimbatore – Block Proving by Axle Counter in Panel/ Route Relay Interlocked Section (31 Km. – 4 Block Sections)	2004-05	113.12 DF(4)	—	Consolidate estimate is sanctioned and work is in progress.
43.	Nethravathi – Kankanadi – Tokur- Block Proving by Axle Counter in Panel/Route Relay Interlocked Section (21 Km.-2 Block Sections)	2004-05	62.10 DF(4)	20%	Detailed estimate is sanctioned and work is in progress.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2009	Remarks
44.	Calicut – Cannanore - Block Proving by Axle Counter in Panel/ Route Relay Inter-locked Section (71 Km.- 10 Block Sections)	2004-05	261.00 DF(4)	—	Detailed estimate sanctioned. Contract awarded and work is in progress. BPAC work in 3 Block sections completed and commissioned.
45.	Cannanore – Mangalore - Block Proving by Axle Counter in Panel/ Route Relay Interlocked Section (132 Km. - 15 Block Sections)	2004-05	536.26 DF(4)	15%	Detailed estimate sanctioned. Contract awarded and work is in progress.
46.	Tiruvananthapuram – Kanyakumari - Block Proving by Axle Counter in Panel/Route Relay Interlocked Section (87 Km.- 5 Block Sections)	2004-05	252.04 DF(4)	40%	Detailed estimate is sanctioned and work is in progress.
47.	Tirunelveli – Nagercoil - Block Proving by Axle Counter in Panel/ Route Relay Interlocked Section (70 Km. - 5 Block Sections)	2004-05	244.47 DF(4)	35%	Detailed estimate is sanctioned and work is in progress.
48.	Golden Rock – Thanjavur - Block Proving by Axle Counter in Panel/ Route Relay Interlocked Section (47 Km. - 4 Block Sections)	2004-05	174.67 DF(4)	—	Detailed estimate is sanctioned and work is in progress.
49.	Dindigul - Madurai - Block Proving by Axle Counter in Panel/Route Relay Interlocked Section (61 Km. - 7 Block Sections)	2004-05	226.48 DF(4)	—	Detailed estimate is sanctioned. The work in two block sections DG-ABI & ABI-KQN completed and commissioned. Balance work is in progress.
50.	Pattabiram – Walajah Road (77 Km.) & Gummidipundi – Gudur (90 Km.) – Relay Terminal Units & Net Working	2004-05	460.36 DF(4)	60%	Detailed estimate sanctioned. Tender opened for provision of Cable laying for RTU at 45 Kms completed.
51.	Chennai Beach - Chengalpattu (60 Km), Chengalpattu - Villupuram (102 Km), Arakkonam Jn. - Chengalpattu (63 Km) - Relay Terminal Units & data Logger Networking.	2004-05	256.28 DF(4)	60%	Detailed estimate sanctioned. Tender opened for provision of Cable laying and installation of RTU equipments are in progress.
52.	Erode Jn. – Karur Jn. - replacement of MAUQ Sigg. Gears by (PI) at 6 stations and 3 Mid section LCs including raising of Standard of Interlocking (2 stations) (E-Route) CVD, URL, PAS, KMD, PGR & MPLM.	2005-06	759.17 DRF	40%	Detailed estimate is sanctioned and work is in progress.
53.	Nagercoil Jn. - Replacement of MAUQ Sigg. Gears by Electronic Interlocking (E - route)	2005-06	273.44 DRF	95%	Detailed estimate is sanctioned and work is in progress.
54.	Tiruchchirappalli Division - Rehabilitation/Renewal of signal gears (over 35 years) with axle counter track circuiting (10 stations) MARD, TAM, MTT, AMM, PKT, AYI, ATQ, KNPL & TIP.	2005-06	251.64 DRF	—	Detailed estimate is sanctioned and work is in progress.
55.	Madurai Division - Rehabilitation/Renewal of signal gears (over 35 years) with axle counter track circuiting (9 stations) and Track circuiting (12 stations). MARD, TAM, MTT, AMM, PKT, AYI, ATQ, KNPL & TIP.	2005-06	319.79 DRF	10%	Detailed estimate is sanctioned and work is in progress.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2009	Remarks
56.	Chennai Division - Repl. of shelf type track relays by plug-in type Q relays (1315 Nos.) & Point machines by High Thrust IRS point machines (284 Nos.)	2006-07	389.56 DRF	60%	Detailed estimate is sanctioned and work is in progress.
57.	Palakkad Division - Repl. of shelf type track relays by plug-in type Q relays (200 Nos.) & Point machines by High Thrust IRS point machines (68 Nos.)	2006-07	73.49 DRF	20%	Detailed estimate is sanctioned by ADRM/PGT and work in progress.
58.	Tiruvananthapuram Division - Repl. of shelf type track relays by plug-in type Q relays (333 Nos.) & Point machines by High Thrust IRS point machines (89 Nos.)	2006-07	108.45 DRF	—	Detailed estimate is sanctioned by Sr.DSTE/TVC and TCM in progress.
59.	Tiruchchirappalli Division - Repl. of shelf type track relays by plug-in type Q relays (590 Nos.) & Point machines by High Thrust IRS point machines (86 Nos.)	2006-07	151.00 DRF	—	Detailed estimate is sanctioned by ADRM/TPJ and TCM in progress.
60.	Madurai Division - Repl. of shelf type track relays by plug-in type Q relays (360 Nos.) & Point machines by High Thrust IRS point machines (20 Nos.)	2006-07	73.49 DRF	—	Detailed estimate is sanctioned and work is in progress.
61.	Chennai Division - Improvement reliability and visibility of signals using light emitting diode Signals (Phase-I) (A & B routes & Suburban sections).	2006-07	529.25 DF(4)	—	Detailed estimate is sanctioned and tender schedules are under preparation.
62.	Wadakkancheri - Replacement of Panel interlocking arrangements by Panel Interlocking (Route setting Type) - B Route.	2006-07	170.83 DRF	—	Consolidate estimate is sanctioned and work is in progress.
63.	Karur - Dindigul - Repl. of overhead block & control alignment by optic fibre & 6 quad cable (D-route) (74 kms)	2006-07	420.54 DRF	70%	Work is in progress.
64.	Arakkonam Jn. - Jolarpettai Jn. - Replacement of RE Cables by 6 Quad Cable (B - Route)	2007-08	149.68 DF(3)	80%	Detailed estimate is sanctioned and work is in progress.
65.	Arakkonam Jn. - Renigunta Jn. - Replacement of Telecommn. Cables by 6 Quad Cable (65 Kms)	2007-08	240.00 DRF	60%	Detailed estimate is sanctioned and work is in progress.
66.	Attipattu - Gummidipundi Section - Reliability improvement to ring main power supply for signalling equipments.	2007-08	220.14 DF(4)	—	Detailed estimate is sanctioned.
67.	Chennai Division - Replacement of Point Machines (284 nos.) and Shelf type relays (1315 nos.)	2007-08	390.990 DRF	—	Proposal for dropping of this work is under process by Division.
68.	Chennai Division - Provision of Station Data Loggers (13 Stations)	2007-08	100.41	—	Detailed estimate is sanctioned by Sr. DSTE/MAS and TCM in progress.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2009	Remarks
69.	Angadipuram - Vaniyambalam and Nilambur Section - Replacement of MAUQ signalling by MACL.	2007-08	222.88 DRF	—	Detailed estimate is sanctioned.
70.	Palakkad and - Tiruvananthapuram Division - Replacement of point machines (68 nos.) and Self type Relays (200 nos.)	2007-08	181.95 DF(4)	—	Detailed estimate is sanctioned.
71.	Tiruvananthapuram Division - Station Dataloggers (25 stations)	2007-08	201.41 DF(4)	—	Detailed estimate is sanctioned.
72.	Tiuchchirappalli Division - Replacement of point machines (86 nos.) and Shelf type Relays (590 nos.)	2007-08	150.42 DF(4)	—	Detailed estimate is sanctioned and TCM in progress.
73.	Tiruchchirappalli Division (12 nos.) and Madurai Division (8 nos.) - Station Dataloggers (25 stations)	2007-08	202.86 DF(4)	—	Detailed estimate is sanctioned and tender schedules are under preparation.
74.	Chengalpattu Jn. - Villupuram Jn. - Integrated Power Supply (16 stations)	2007-08	267.70 DF(4)	—	Detailed estimate is sanctioned.
75.	Palakkad Division - Station Dataloggers with networking (33 stations)	2007-08	259.19 DF(4)	—	Detailed estimate is sanctioned.
76.	Coimbatore North - Mettupalaiyam (35 km) & Mettupalaiyam - Udhagamandalam (45 Km) - Composite Quad cable.	2007-08	335.00 DF(3)	31.31%	Detailed estimate is sanctioned.
77.	Jolarpettai Jn. - Salem Jn. - Optic fibre cable (18 stations)	2007-08	455.46 DF(3)	70%	Detailed estimate is sanctioned.
78.	Madurai and Tiruchchirappalli Divisions - Light Emitting Diode signals in Chord lines.	2007-08	282.22 DF(4)	—	Detailed estimate is sanctioned.
79.	Madurai - Manamadurai - Rameswaram - Optic fibre cable.	2007-08	526.10 DF(3)	60%	Detailed estimate is sanctioned.
80.	Pettavatalai & Kulithalai - Replacement of Multi Aspect Upper Quadrant Signals by Panel interlocking and upgradation of standard of Interlocking.	2007-08	290.74 DRF	—	Detailed estimate is sanctioned.
81.	Southern Railway - Taking over STM-1 associated equipment & 4 Fibre of Optic Fibre Cable from Railtel as per revised agreement.	2007-08	412.16 DRF	—	Detailed estimate is sanctioned.
82.	Chennai Central - Arakkonam Jn. - 6 Quad Cable (B-Route) (70 Kms) incl. Pattabiram - Pattabiram E depot. (5 Kms)	2008-09	269.00 DRF	—	Detailed estimate is sanctioned.
83.	Perambur - Tiruvellore - Ring main arrangement and Replacement of Power Cable (36.03 Kms)	2008-09	336.00 DF(4)	—	Detailed estimate is sanctioned.

Sl. No.	Description of Work	Sanctioned in the Year	Estimated cost in lakhs of Rs.	Physical progress upto 31st March 2009	Remarks
84.	Chennai Beach - Villupuram Jn., Chennai Beach - Tirumailai - Light Emitting Diode Signals (Phase - II)	2008-09	263.00 DRF(4)	—	Work dropped.
85.	Villivakkam, Ambattur and Avadi - Replacement of Signalling gears by Route Relay Interlocking.	2008-09	829.19 DRF	—	S & T Sub-estimate is ready.
86.	Shoranur - Nilambur - Repl. of BSNL overhead block & control alignment by optic fibre & 6 quad cable (D-route) (66 kms)	2008-09	385.00 DRF	50%	Detailed estimate is sanctioned and work is in progress.
87.	Palakkad Division - Provision of Colour light signalling arrangements in lieu of semaphore signalling arrangements at Interlocked LC gate No.002, 004 & 006 between SRR - AAM sections and No. 008 and 009 between VNB - AAM section.	2008-09	91.75 DRF	—	Detailed estimate is sanctioned.
88.	Tiruvananthapuram Division - Karukutty - Replacement of wornout Signalling gears by Route Setting Type Panel Interlocking.	2008-09	174.00 DRF	—	S & T Main estimate is sent for Accounts vetting.

Sl. No.	Description of Items	Added during 2007-08	Total as on 31-3-2008	Added during 2008-09	Total as on 31-3-2009
1.	Token Block Working (No. of Block Sections)	-2	83	-31	52
2.	Tokenless Block Working (No. of Block Sections)	21	235	14	249
3.	Lock & Block Working (No. of Block Sections)	-1	122	-14	108
4.	Intermediate Block Sections (No. of Block Sections)	-4	6	0	6
5.	Block Working by Axle-counters (No. of Block Sections)	-4	41	33	74
6.	Colour Light Signalling (No. of Stations)				
	(i) Multi Aspect	0	384	12	396
	(ii) 2-Aspect	—	—	—	—
7.	Semaphore Signalling (No. of stations)				
	(i) MAUQ	-13	41	-4	37
	(ii) MLQ	—	—	—	—
	(iii) LQ	-32	35	-3	32
8.	Automatic Block Working				
	(i) Track kms.	34.32	827.62	141.84	969.46
	(ii) Route Kms.	11.44	354.74	70.92	425.66
9.	Automatic Permissive Block Working				
	(i) Track kms.	23.91	54.01	0	54.01
	(ii) Route Kms.	11.955	27.005	0	27.005
10.	Safety Devices at Level Crossings				
	(i) Interlocking at Level Crossings (Nos.)	32	1072	31	1103
	(ii) Lifting Barriers at Level-Crossings (Nos.)	80	792	244	1036
	(iii) Non-interlocked Level Crossings (Nos.)	2	783	14	797
	(iv) Telephone at Level Crossings (Nos.)	9	1,715	10	1,725
	(v) Train Actuated Warning System (Nos.)	-18	10	0	10
	(a) At Unmanned Gates (Nos.)	0	9	0	9
	(b) At Manned Gates (Nos.)	-18	1	0	1
11.	Total No. of Interlocked Stations (Nos.)	6	451	14	465
	(i) Non-Interlocked Stations	-1	4	0	4
	(ii) Modified Non-Interlocked stations	0	14	0	14
	(iii) Interlocked Stations	7	433	14	447
	(a) Standard-I	-12	89	-9	80
	(b) Standard-II	—	—	—	—
	(c) Standard-III	19	344	23	367
B.	Total No. of stations	6	451	14	465
	(i) Spl. class stns.	13	68	2	70
	(ii) A class stns.	—	—	—	—
	(iii) B class stns.	-10	365	13	378
	(iv) B class stns. without loop	0	6	—	6
	(v) C class stns.	3	12	-1	11
	(vi) D class stns.	—	—	—	—
12.	Route relay Interlocking (No. of Stations)	2	48	4	52
	(i) Stations with MACL Signals	2	48	4	52
	(a) Standard-I Interlocking	0	20	2	22
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	2	28	2	30
13.	(A) Panel Interlocking (END PANES) (No. of stations)	—	—	—	—
	(i) Stations with MACL Signals	—	—	—	—
	(a) Standard-I Interlocking	—	—	—	—
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	—	—	—	—
	(ii) Stations with Semaphore Signals	—	—	—	—
	(a) Standard-I Interlocking	—	—	—	—
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	—	—	—	—
	(B) Panel Interlocking (CENTRAL PANELS) (No. of stations)	7	283	6	289
	(i) Stations with MACL Signals	15	273	6	279
	(a) Standard-I Interlocking	3	13	0	13
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	12	260	6	266
	(ii) Stations with Semaphore Signals	-8	10	0	10
	(a) Standard-I Interlocking	-5	5	0	5
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	-3	5	0	5
14.	Solid State interlocking (No. of stations)	1	19	3	22
15.	Lever Frames (No. of stations)	0	56	-3	53
	(i) With MACL Signals	0	4	0	4
	(a) Standard-I Interlocking	0	3	0	3
	(b) Standard-II Interlocking	0	0	0	0
	(c) Standard-III Interlocking	0	1	0	1
	(ii) Stations with Semaphore Signals (DW) (MAUQ) (No. of stations)	0	25	-3	22
	(a) Standard-I Interlocking	0	21	-3	18
	(b) Standard-II Interlocking	0	0	0	0
	(c) Standard-III Interlocking	0	4	0	4
	(iii) Stations with Semaphore Signals (SW) (LQ) (No. of stations)	0	27	0	27
	(a) Standard-I Interlocking	0	26	0	26
	(b) Standard-II Interlocking	0	0	0	0
	(c) Standard-III Interlocking	0	1	0	1
16.	Auxiliary Warning System (Route Km)	—	—	50	50
	(Track Km.)	—	—	100	100

Sl. No.	Description of Items	Added during 2007-08	Total as on 31-3-2008	Added during 2008-09	Total as on 31-3-2009
1.	Token Block Working (No. of Block Sections)	-2	83	-31	52
2.	Tokenless Block Working (No. of Block Sections)	21	235	14	249
3.	Lock & Block Working (No. of Block Sections)	-1	122	-14	108
4.	Intermediate Block Sections (No. of Block Sections)	-4	6	0	6
5.	Block Proving by Axle-counters (No. of Block-Sections)	-4	41	33	74
6.	Colour Light Signalling (No. of Stations)				
	(i) Multi Aspect	0	384	12	396
	(ii) 2-Aspect	—	—	—	—
7.	Semaphore Signalling (No. of stations)				
	(i) MAUQ	-13	41	-4	37
	(ii) MLQ	—	—	—	—
	(iii) LQ	-32	35	-3	32
8.	Automatic Block Working				
	(i) Track kms.	34.32	827.62	141.84	969.46
	(ii) Route Kms.	11.44	354.74	70.92	425.66
9.	Automatic Permissive Block Working				
	(i) Track kms.	23.91	54.01	0	54.01
	(ii) Route Kms.	11.955	27.005	0	27.005
10.	Safety Devices at Level Crossings				
	(i) Interlocking at Level Crossings (Nos.)	32	1072	31	1103
	(ii) Lifting Barriers at Level-Crossings (Nos.)	80	792	244	1036
	(iii) Non-interlocked Level Crossings (Nos.)	2	783	14	797
	(iv) Telephone at Level Crossings (Nos.)	9	1,715	10	1,725
	(v) Train Actuated Warning System (Nos.)	-18	10	0	10
	(a) At Unmanned Gates (Nos.)	0	9	0	9
	(b) At Manned Gates (Nos.)	-18	1	0	1
11.	Total No. of Interlocked Stations (Nos.)	6	451	14	465
	(i) Non-Interlocked Stations	-1	4	0	4
	(ii) Modified Non-Interlocked stations	0	14	0	14
	(iii) Interlocked Stations	7	433	14	447
	(a) Standard-I	-12	89	-9	80
	(b) Standard-II	—	—	—	—
	(c) Standard-III	19	344	23	367
	B. Total No. of stations	6	451	14	465
	(i) Spl. class stns.	13	68	2	70
	(ii) A class stns.	—	—	—	—
	(iii) B class stns.	-10	365	13	378
	(iv) B class stns. without loop	0	6	—	6
	(v) C class stns.	3	12	-1	11
	(vi) D class stns.	—	—	—	—
12.	Route relay Interlocking (No. of Stations)	2	48	4	52
	(i) Stations with MACL Signals	2	48	4	52
	(a) Standard-I Interlocking	0	20	2	22
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	2	28	2	30
13.	(A) Panel Interlocking (END PANES) (No. of stations).	—	—	—	—
	(i) Stations with MACL Signals	—	—	—	—
	(a) Standard-I Interlocking	—	—	—	—
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	—	—	—	—
	(ii) Stations with Semaphore Signals	—	—	—	—
	(a) Standard-I Interlocking	—	—	—	—
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	—	—	—	—
	(B) Panel Interlocking (CENTRAL PANELS) (No. of stations).	7	283	6	289
	(i) Stations with MACL Signals	15	273	6	279
	(a) Standard-I Interlocking	3	13	0	13
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	12	260	6	266
	(ii) Stations with Semaphore Signals	-8	10	0	10
	(a) Standard-I Interlocking	-5	5	0	5
	(b) Standard-II Interlocking	—	—	—	—
	(c) Standard-III Interlocking	-3	5	0	5
14.	Solid State interlocking (No. of stations)	1	19	3	22
15.	Lever Frames (No. of stations)	0	56	-3	53
	(i) With MACL Signals	0	4	0	4
	(a) Standard-I Interlocking	0	3	0	3
	(b) Standard-II Interlocking	0	0	0	0
	(c) Standard-III Interlocking	0	1	0	1
	(ii) Stations with Semaphore Signals (DW) (MAUQ) (No. of stations)	0	25	-3	22
	(a) Standard-I Interlocking	0	21	-3	18
	(b) Standard-II Interlocking	0	0	0	0
	(c) Standard-III Interlocking	0	4	0	4
	(iii) Stations with Semaphore Signals (SW) (LQ) (No. of stations)	0	27	0	27
	(a) Standard-I Interlocking	0	26	0	26
	(b) Standard-II Interlocking	0	0	0	0
	(c) Standard-III Interlocking	0	1	0	1
16.	Auxiliary Warning System (Route Km)	—	—	50	50
	(Track Km.)	—	—	100	100

Sl. No.	Description of Items	Added during 2007-08	Total as on 31-3-2008	Added during 2008-09	Total as on 31-3-2009
17.	Second Distant (Nos.)				
	(i) Stations	1	6	-6	0
	(ii) LC Gates	0	3	-3	0
	(iii) Intermediate Block Signals	0	13	-13	0
18.	Track Circuiting (No. of stations)				
	(i) FM to FM	5	426	13	439
	(ii) FM to BSL (St)	21	419	13	432
	(iii) FM to BSL (T/O)	15	424	13	437
	(iv) FM to Home (St)	19	411	13	424
	(v) FM to Home (T/O)	17	421	13	434
	(vi) Loop line	9	419	13	432
	(vii) Calling on, approach track circuiting, etc.	86	299	13	312
19.	No. of Semaphore Signals Lit with Solar Power (Nos.)	-175	518	-68	450
20.	AFTC (Nos.)	275	952	182	1134
21.	HFTC (Nos.)	-1	0	0	0
22.	DIGITAL AXLE-COUNTERS (Nos.)				
	(i) Single Entry	—	—	—	—
	(a) Stations	13	37	11	48
	(b) Equipments	49	98	-2	96
	(ii) Multy Entry	—	—	—	—
	(a) Stations	—	—	—	—
	(b) Equipments	—	—	—	—
23.	ANALOG AXLE-COUNTERS (Nos.)				
	(i) Single Entry	—	—	—	—
	(a) Stations	-8	33	3	36
	(b) Equipments	-10	52	20	72
	(ii) Multy Entry	—	—	—	—
	(a) Stations	0	0	0	0
	(b) Equipments	0	15	0	15
24.	MICROTRAX (Nos.)	—	—	—	—
25.	LED LIT Semaphore Signals (Nos.)				
	(a) No. of Stations	-4	7	-7	0
	(i) With Conventional Power	-3	4	-4	0
	(ii) With Solar Power	0	4	-4	0
	(iii) With Primary Batteries	—	—	—	—
	(b) No. of Signals	0	24	-24	0
	(i) Conventional Power	—	—	—	—
	(ii) Solar Power	0	24	0	24
	(iii) With Primary Batteries	—	—	—	—
26.	Electrically lit semaphore signals (Nos.)				
	(a) No. of Stations	0	6	-2	4
	(i) With Conventional Power	0	0	0	0
	(ii) With Solar Power	0	6	-2	4
	(iii) With Primary Batteries	—	—	—	—
	(b) No. of Signals	-383	373	-92	281
	(i) With Conventional Power	0	0	0	0
	(ii) With Solar Power	-383	373	-92	281
	(iii) With Primary Batteries	—	—	—	—
27.	LED Lit MACL Signals (Nos.)				
	(a) Stations	7	126	9	135
	(b) Signals	701	1689	67	1,756
	(c) Aspects	1800	4,321	483	4,804
28.	Triple pole Signal lamps (Nos.)				
	(a) Stations	9	359	-9	350
	(b) Signals	962	4,427	-171	4,256
	(c) Aspects	1,098	12,301	-1,210	11,091
29.	Calling-On Signals (No. of Stns.)	57	361	16	377
30.	Data-loggers (Total)				
	(i) Stand Alone (Nos.)	-138	52	10	62
	(ii) Networking Mode (section Nos.)	6	151	23	174
31.	Integrated Power Supply (No. of stns.)	1	82	1	83
	(i) SCR Based (No. of stns.)	0	0	0	0
	(ii) SMPS Based (No. of stns.)	1	82	1	83
32.	Point Machines (Nos.)				
	(i) IRS Type	627	4,183	235	4,418
	(ii) Siemens Type	-22	0	0	0
	(iii) Clamp Type	0	0	0	0
	(iv) Other	-315	248	-62	186
33.	Batteries (Nos.)				
	(a) (i) 2V Cells 40 AH	1,206	1,240	0	1,240
	(ii) 2V Cells 80 AH	-1,442	24,049	5541	29,590
	(iii) 2V Cells 120 AH	-5,172	9,835	1385	11,220
	(iv) 2V Cells 200 AH	1,421	6,941	0	6,941
	(v) 2V Cells 400 AH	1,744	8,349	0	8,349
	(b) 2V Cells 400 AH	1,006	1,544	0	1,554
34.	ZISTUS	1,08,408	23,99,3492	85,972	26,85,321

5. Signal Equipment Failures

Sl. No.	Signal Failures	Number of Failures (As per USF)			
		Previous Year 2007-08		Current Year 2008-09	
I.	On Signal Account :-	Nos.	%	Nos.	%
	(a) In colour light Signalling area	4343	49.60	4,212	54.79
	(b) In semaphore signalling area.	203	2.32	145	1.89
	Sub-Total	4,546	51.92	4,357	56.67
II.	On Account of others :-				
1.	Operating Department	932	10.64	795	10.34
2.	Mechanical Department	13	0.15	25	0.33
3.	Engineering Department	1,423	16.25	1,019	13.25
4.	Electrical Department	148	1.69	135	1.76
5.	D. O. T. ..	477	5.45	424	5.52
6.	Miscréant ..	347	3.96	246	3.20
7.	Miscellaneous ..	870	9.94	687	8.94
	Sub-Total	4,210	48.08	3,331	43.33
	Total (I + II)	8,756	..	7,688	..

The percentage is worked out based on the grand total number of signal and interlocking failures both on S. & T. account and other account 8756.

6. Matter relating to Signal and Telecommunication Workshop/Podanur

Introduction

Signal and Telecommunication Workshop was set up on 9.4.1958 at Podanur to serve as a manufacturing-cum-repair Unit for Signal equipments. Initial activities were confined to manufacture of Mechanical Signalling items like Lever Frames, Levers and accessories subsequently the repairing and overhauling of Electric Signal reversers, Single Line Block Instruments and Electro Mechanical Signalling equipments like Shelf Type Relays.

The Workshop is managed by team of Officers comprising of CWM, Dy.CSTE, PE, DSTE/AC, WPO, AWM, APE, AMM, and Dy.CMM & Sr.AFA.

Development of Signalling Relays and Electronic Axle counter.

The Shelf Type relays were supplied from M/s ITI and was subsequently the technical know how was transferred to this workshop. This Workshop later on started manufacturing Plug in type signalling Relays, Electronic Axle counter, etc. In the beginning the components for Q Relays were being imported from Westing house Saxby Farmer Ltd. Later on with large scale production of Q Relay with complete indigenous components has helped in commissioning of Modern Signalling like Route Relay and Central Panel Inter locking in various Railways.

Production items.

Presently, the workshop is producing Signalling Relays, Control Panels, Double Line Block Instruments, Tokenless Block Instrument, Axle counter and Point Machines. The workshop has an auxiliary unit at Perambur/Chennai. The Perambur unit overhauls FM / Daido block instrument, Neals ball / Neals Tablet token instrument, SGE Double Line Block instrument, Shelf Type Relays. Perambur Unit is also Producing GRS Apparatus case, Track Lead In Box, CLS Transformer, Annunciator Boxes, Ladder with platform, etc. and under takes Battery charging, wiring of TLB Instrument, Electronic Gate bell and Assembly of condenser units, etc.

Production growth and out turn.

The workshop progressively registered a spectacular growth in the manufacture of various types of Sophisticated Signalling equipments for meeting the demand of Indian Railways for signalling projects and replacement works. The combined annual out-turn of S&T workshop/PTJ and PER together is in the order of Rs.41.75 crores for the year 2008-09. Progressive growth of the Workshop can be seen from the figures given below.

Details of important items produced in the Workshop from 2003-2004 to 2008- 2009 is given below :-

Sl. No.	Description	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09
1.	Q Type Plug in Type Signalling Relays	41892	50000	53010	56250	57200	55650
2.	IRS Point machine	2674	3124	3322	3149	2575	2480
3.	Token Less Block Instrument (Push Button Type)	398	149	184	328	521	650
4.	Elec.Axle counter (Analog)	121	160	86	213	100	0
5.	Double Line Block Instrument	30	48	86	100	76	120
6.	Control panel	81	85	65	58	54	57
7.	Polarised Relay	165	229	300	300	149	269
8.	Relay rack	85	72	208	265	296	243
9.	GRS App cases	2425	1561	1331	765	1791	970

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

Year	Out turn in Crores of Rs.	Staff strength	Outturn per employee (lakhs of Rs.)
2002-03	28.20	861	3.2
2003-04	29.03	824	3.5
2004-05	31.50	789	3.9
2005-06	30.95	786	3.9
2006-07	34.36	865	3.9
2007-08	35.72	869	4.1
2008-09	41.75	848	4.9

Incentive Scheme :

The incentive scheme was introduced in the workshop on 1st August 1963 and progressively extended. An average of 665 staff per month have been covered under incentive scheme during 2008-2009.

Quality control :

01 This Workshop is an ISO—9001: 2000 certified unit

The pride of the workshop lies in its capacity to produce sophisticated signalling products to high levels of quality. This workshop has got ISO—9001:2000 certifications for all sections of the workshop including administrative office.

02 As per the Quality Policy, this Workshop is committed to manufacture and supply safety signalling equipments of consistent quality by Continuous improvement. As a result, a lot of improvements were made and Fixtures were introduced in the production of Relays, Tokenless Block Instrument, and Point Machines etc. These measures have reduced the rejection rate to 2.09% in Relay production and improved reliability.

Developmental activities:

The following new signalling items are taken up and the proto type is in progress :-

01. Digital Axle counter.
02. Podanur type Block Instrument to suit RE area.
03. E Type lock.
04. QTA2 Relays.
05. QBA1 Relays
06. QSPA1 Relays.
07. Point machine (220 mm stroke) suitable for Thick Web Switches.

Computerization in S&T workshop:

1. All the shops and sections of S&T Workshop and associated offices are provided with computers and these are interconnected through Local Area Networking and in turn connected to the Railnet.

2. Daily position of production, material's stock position, etc. are monitored through Computers.

3. All the activities in the following areas are done through computers only. Bills section, Rate fixing section, Planning section, Drawing Office, Personnel Branch, ISO Section, Inspection Department, Budget Section, Stores Section, Marketing Section, Progress Section, General Section.

Outsourcing of sub components:

To meet the growing demand certain sub-components are outsourced apart from inhouse manufacture. The sub-components of Q-Relay, Point Machines and Electronic Axle counter are outsourced thro' proven vendors. The sub-components are procured by Stores Department thro' procurement Memo system.

Basic Training Centre:

A Basic Training Centre is functioning at S&T/Workshop/ Podanur from 29-04-93. Courses for Non-ITI Apprentices Fitter (Freshers) / EX ITI are conducted in the centre as per Apprentices Act 1961.

Staff Welfare :

The Workshop is periodically inspected by Inspector of Factories. As requirement of Factory Act,

1) A canteen is functioning in the Workshop for the welfare of staff. In addition to this, Hindi library, cycle stand and rest rooms are also provided for staff welfare.

2) Railway Sub-Division Hospital and Homeopathic Dispensary are functioning close to this Workshop.

3) Renovation work of Railway Institute is progressing and nearly 75% of work have been completed. It is expected that the Institute will be ready for use within short period.

Zonal S&T Training Centre at Podanur :

The Zonal S&T Training Centre is under the administrative control of CWM/PTJ. It is headed by Principal (Sr.Scale Officer). The Faculties are ASTE, 8 Instructor and 3 Demonstrators. Total numbers of Staff are 17 including the ministerial staff. S&T/TC/PTJ is functioning mainly for

training of ESMs/MSMs/TCMs on safety oriented courses. Staffs are trained through e- learning with video conference connected to IRISSET/Secundrabad and other training institutes.

Various Courses viz., Initial, Refresher, Promotion and Equipment course are conducted in the Training Centre for S.Rly and SWR. The details are furnished below :-

Sl. No.	Nature of Course	Seats allotted	Seats Utilized	% Utilization of seats
1	Initial	147	230	157
2	Refresher	465	147	32
3	Promotion	300	190	64
4	Equipment	978	385	40

Note :— 1. The data includes Signalling, Telecommunication and General courses.

2. Seats allotment data for Initial course will vary according to the reporting of freshers through various RRBs.

Details of Trainees who had Undergone Training During 2008-09 at S. & T.—Training School—Podanur

Sl. No.	Name of Courses	Duration	No. of Courses Conducted	No. of Staff Trained
I. Signal Courses—				
1.	Refresher course for ESMs	3 weeks	10	116
2.	Refresher course for MSMs	2 weeks	1	1
3.	Foundation course for ESM	8 weeks	2	40
4.	Pre-Promotion Course Tech to JE Sigg.	2 weeks	5	34
5.	Initial course for promoted JEs Phase I	8 weeks	1	10
	Initial course for promoted JEs Phase II	5 weeks	2	28
6.	Induction to unskilled	2 weeks	3	37
7.	App. ESMs Phase I	8 weeks	1	92
	App. ESMs Phase II	9 weeks	2	69
	App. ESMs Phase III	8 weeks	1	38
8.	Automatic signal	1 week	2	2
9.	Sig. in 25 KV Traction area	1 week	3	7
10.	Point machine, track circuit and AFTC	1 week	4	14
11.	Single line and Double line token block Instrument.	1 week	3	8
12.	Single line tokenless block instrument-Pushbutton type.	1 week	2	6
13.	Single line tokenless block instrument-FM type.	1 week	4	46
14.	Panel Interlocking	2 weeks	2	5
15.	Route relay interlocking with Minor and Major yard.	2 weeks	2	6
16.	Universal and Digital Axle counter.	1 week	3	12
17.	Datalogger, Solid state interlocking, Integrated Power Supply.	1 week	4	11
18.	Development programme for Group - D staff.	2 days	1	7
Total			58	589

Sl. No.	Name of Courses	Duration	No. of Courses Conducted	No. of Staff Trained
II. Telecommunication Courses—				
1	Induction to unskilled	2 weeks	3	22
2	Promotion course for Tech. to JE	2 weeks	5	19
3	Refresher course for TCMs	3 weeks	5	30
4	Foundation course for TCMs	6 weeks	2	12
5	Electronic Exchange	1 week	3	11
6	Train traffic control/RE/Non RE	1 week	3	9
7	PA Systems VHF, PRS, IVRS	1 week	12	35
8	Optical fibre communication	1 week	3	9
9	Data communication	1 week	3	15
10	PDH/SDH	1 week	2	7
11	Initial course for App. TCMs—Phase – I	8 weeks	2	24
	Initial course for App. TCMs—Phase – II	9 weeks	1	7
12	Railnet, FOIS, MIS	1 week	3	11
13	Cable Jointing	1 week	1	1
14	Computer appreciation course for JE/SE & Clerks	2 weeks	2	7
	Computer appreciation course for TCMs/ESMs.	1 week	4	26
15	Yoga & Meditation	3 days	10	71
Total			64	316
III. Special Courses—				
1	Induction to unskilled	2 weeks	2	22
2	Single line tokenless block instrument-FM type.	1 week	1	19
3	Double line SGE Block Instrument	1 week	1	21
4	Special for Group D staff	2 weeks	2	10
5	Pre-Promotional course Tech. to JE	3 weeks	2	9
6	Pre-Promotional course from Group C to Group B	2 weeks	2	17
7	Promoted JE Tele phase I	8 weeks	1	5
8	Promoted JE Tele phase II	5 weeks	1	5
9	Foundation course for ESMS	8 weeks	1	42
10	App. JEs.	1 week	1	4
11	App. SEs	2 weeks	2	9
Total			16	163
Grand Total			138	1,068

7. Staff

(i) Total strength of staff cadrewise separately for Signal and Tele-communication staff in respect of Inspectors and Artizans 2008-09.

Sl. No.	Category	Total Nos.
(a) Signalling—		
(1)	Signal Engineers	369
(2)	Electrical Signal Maintainers	1,513
(b) Tele-communication—		
(1)	Tele-commn. Engineers	223
(2)	Tele-commn. Maintainers	559
(3)	Wireless Instrument mechanics	142

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

(a) Through Railway Recruitment Board		
(1)	SE/Sig.	20
(2)	JE/II/Sig.	54
(3)	SE/T	11
(4)	JE/T	9
(5)	Electrical Signal Maintainers/Gr. II	100
(6)	Electrical Signal Maintainers/Gr. III	150
(7)	Tele-communication Maintainers/Gr. III	—
(8)	Wireless Instrument Mechanics	—

(iii) Total No. of staff trained through Zonal Training Schools/Centres category wise during 2008-09.

Sl. No.	Name of the courses	No. of courses conducted	No. of staff trained
(1)	Refresher Course	16	147
(2)	Initial Course	10	243
(3)	Equipment Course	72	353
(4)	Foundation Course	5	94
(5)	Pre-promotional Courses		
	(a) ESMs/MSMs	12	62
	(b) JE to SE	0	0
	(c) Group 'C' to Group 'B'	2	17
	(d) Promoted JEs	5	48
(6)	Other courses (Computer & Yoga)	16	104
Total		138	1,068

(iv) Signal and Tele-communication Units for 2008-09

Division	DISTUs
Chennai	3,19,254
Salem	1,21,864
Palakkad	1,11,516
Tiruvananthapuram	1,12,917
Tiruchchirappalli	1,33,781
Madurai	97,764
Total	8,97,096
ZISTUS	26,85,321

X STORES

1. Organisation of Stores Department

The main function of Stores department is to arrange adequate quantity of materials, of right quality in time. To meet this 25 stores depots are functioning, spread over Southern Railway, at present to cater to the requirements of various Departments. The Stores department is arranging more than 7500 stocked items required on regular basis, apart from procuring high value Non-stock items through Headquarters and materials of smaller value through field units.

2. The details of Stores depots are as under:-

(a) General and Divisional Stores depot:—

Sl. No.	Name of the Depot with Depot Code No.	Brief function stocked	No. of items (Rs.in Crs.)	Issue value 2008-09
1	General Stores Depot, Perambur (00)	Supply of materials required for Chennai Division, Major scrap depot of Southern Railway, Supply of informs throughout Southern Railway. And Supply of Books and Forms & Money valued items to Southern Railway, South Western Railway & ICF.	987	201.16
2	General Stores Depot, Golden Rock (24)	Supply of materials required for Trichy division.	583	4.11
3	Divisional Stores Depot, Erode (13)	Supply of materials required for Salem, & Palakkad divisions.	522	4.98
4	Divisional Stores Depot, Madurai (14)	Supply of materials required for Madurai division.	471	3.69
5	Divisional Stores Depot, Quilon (20)	Supply of materials required for Trivandrum division.	445	5.70
6	Divisional Stores Depot, Palakkad (07)	Supply of materials required for Palakkad division.	235	0.05 **
7	C&W material maintenance Depot, Basin Bridge (25)	Supply of C&W materials required for Chennai division.	147	4.43

** This depot started functioning from 27-05-2008 only.

(b) Depot attached with Diesel/Electric Sheds:—

Sl. No.	Name of the Depot with Depot Code No.	Brief function	No. of items stocked	Issue value 2008-09 (Rs. in Crs.)
1	Diesel Stores Depot, Erode Erode (08)	Supply of materials required for Diesel Shed, Erode	1240	14.33
2	Diesel Stores Depot, GOC (18)	Supply of materials required for Diesel POH Shed, Goldenrock	1692	29.21
3	Diesel Shed/Stores Depot (19)	Supply of materials required for "Diesel Shed", Goldenrock	1290	9.78
4	Electric Loco Stores Depot, Arakkonam (21)	Supply of materials required for Electric Loco Shed, Arakkonam.	806	7.30
5	Electric Loco Stores Depot, Erode (22)	Supply of materials required for Electric Loco Shed, Erode.	682	6.08
6	Diesel Stores Depot, Ernakulam (23)	Supply of materials required for Diesel Loco Shed, Ernakulam.	1000	5.96
7	Diesel Stores Depot, Tondiarpet (26)	Supply of materials required for Diesel Loco Shed, Tondiarpet	908	3.49

(c) Depots attached with Workshop :

Sl. No.	Name of the Depot with Depot Code No.	Brief function	No. of items stocked	Issue value 2008-09 (Rs. in Crs.)
1	Loco Works, PER(01)	Supply of materials required for Loco Works , Perambur ..	1858	48.41
2	MSD/GOC(02)	Supply of materials required for Mechanical Workshop, Goldenrock.	1001	62.69
3	C&W Works, Perambur(28)	Supply of materials required for Carriage Works , Perambur	1383	108.17
4	BS/EWS/AJJ(09)	Supply of materials required for Engineering Workshop, Arakkonam.	200	5.08

(d) EMU SHEDS :

Sl. No.	Name of the Depot with Depot Code No.	Brief function	No. of items stocked	Issue value 2008-09 (Rs. in Crs.)
1	TSD/Tambaram(10)	Supply of materials required for Traction Depot, Tambaram	664	4.28
2	TSD/Avadi(27)	Supply of materials required for Traction Depot, Avadi. ..	620	8.69

(e) Depots attached to Manufacturing shops:

Sl. No.	Name of the Depot with Depot Code No.	Brief function	No. of items stocked	Issue value 2008-09 (Rs. in Crs.)
1	Signal stores, Depot. Podanur (11)	Supply of materials required for Signal & Telecom. Workshop/ Podanur.	320	56.69
2	Wagon Production, Golden Rock (17)	Supply of materials required for Wagon Production Workshop/ Golden Rock.	40	1.05

(f) Printing Press/Royapuram :

There are two printing presses in Southern Railway to meet the requirements of Books and Forms and Money-valued items like tickets, EFTs, etc. as under :-

- General Printing Press at Royapuram, Chennai
- Ticket Printing Factory at Trichy

As per the extant instructions of Railway Board, the printing work of South Western Railway is also undertaken by these printing presses.

(g) Availability of Materials and Compliance Percentage.

During the year 2008-09 the compliance percentage was over 98 per cent and the availability of Vital/Safety and Passenger Amenity items were always maintained above 98 Per cent through out the year.

3. ISO Certification :

Stores Department of Southern Railway along with Stores Finance at the Headquarters, is ISO certified, which is valid up to August 2011.

4. e-Procurement :

Southern Railway is one of the first few Railways that implemented e-procurement. This was implemented with effect from 11-09-08. More than 2800 vendors have registered in the website. More than 200 Open tenders have been floated. Apart from this, 110 Single tender and more than 30 Limited tenders have been floated. The results are very much encouraging. The requirements for vendor for participating in the e-tender is as under:-

- Valid clause III type digital signature on the company name
- Vendor have to register in the website for participation for which a user ID and password is provided.
- This Railway conducts training every Friday for the benefit of vendors to ensure active participation.

5. Materials Management Information System (MMIS):

Depot module is working in 23 stocking depots.

Purchase module has been implemented and running successfully

Sales module has been implemented.

The following features are available in RAILNET under stores page :—

Stock items search based on PL Number / description with provision to generate stock position slip. Non-stock search based on Indent Number, Description, Demand Number, Division and department Search on vendor details based on Vendor number and vendor name.

6. STORES BALANCE (2008-09)

(Figs. in crores of Rupees)

	Maintenance	Works	Total
(i) Opening Balance			
Phy. stock without Adjustment	49.05	0.43	49.48
Adjustment	(-) 0.15	0.00	(-) 0.15
Stores Suspense balance	18.37	0.00	18.37
Total as per approx. accounts	67.27	0.43	67.70
(ii) Receipts during the year	1062.22	1.16	1063.38
(iii) Issues during the year	1041.38	1.15	1042.53
(iv) Closing Balance			
Phy. stock without Adjustment	88.11	0.44	88.55
Adjustment.	(-) 0.15	0.00	(-) 0.15
Stores Suspense balance	40.94	0.00	40.94
Total as per approx accounts	128.90	0.44	129.34

7. Inventory Performance 2008-09

(Figs in Crores of Rs.)

1) Overall Balance without fuel as on 31.03.2009	- 79.32
2) Overall Balance with fuel as on 31.03.2009	- 120.90
3) Total Issues (without fuel)	- 649.04
4) Total Issues (with fuel)	- 1042.96
5) Turn Over Ratio (without fuel)	- 12.22 %
6) Turn Over Ratio (with fuel)	- 11.59 %

Strict control has been exercised on inventory of stores. During 2008-09 the Turnover Ratio of 12.22 % (i.e.) Inventory divided by Issues, without fuel) was achieved against the target of 13.84 %.

8. Economy Effected in Stationery and other Materials.

Stringent economy is enforced in the utilisation of stationery and other materials of general usage.

**9. (a) Purchase -Value of Railway Equipment and Stores 2008-09
(Attested by Finance and includes Track Materials also)**

(Figs. in Crores of Rs)

1. Total value of equipment & stores	-	3050.84
2. Value of stores ordered through department of supply.	-	9.39
3. Value of stores ordered through Railway Board.	-	1459.82
4. Value of stores ordered by the Railway Direct.	-	1545.63

(b) Details of purchases of Stores (2008-09)

Every year about 5400 stock orders and 1700 non-stock orders are released by the office of the COS and 20000 orders are placed by divisions.:-

(figures in crores of Rs.)

1. Materials imported direct	-	47.47
2. Materials imported through agencies in India	-	3.44
3. Total imported direct and through agencies	-	50.91
4. Indigenous materials	-	2999.93
5. Total imported and indigenous	-	3050.84
6. Percentage of items (4) over (5)	-	98.33%

(c) Use of Khadi

Total value of Khadi articles during the year 2008-09 - Rs.1.46 crores

(d) Purchase made from cottage and small scale industries:-

Value of purchases falling within the category of cottage and small scale industrial products during the year 2008-09 amounted to Rs.323.74 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.

(2008-09)

(figure in Metric Tons)

SI 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	470.000	..	50.000	50.000
2	Structural	834.000	117.359	628.037	602.396
3	Plates	2357.401	117.000	2164.028	2010.860
4	Sheets	1829.000	134.306	1634.300	1474.532
5	Spring Steel	61.000	..	43.000	39.000
6	Tool Alloy & Steel Plates .. .. .	..	..	..	..

11. Disposal of Scrap - During 2008-09, Southern Railway generated a revenue of Rs.257.48 Crores, by sale of various Scrap items.

Category of Scrap	Balance as on 1-4-08		Receipts during the year		Scrap disposed off During the year		Balance as on 1-4-2009	
	Qty./ MT	Value (Rs. in crores)	Qty./ MT	Value (Rs. in crores)	Qty./MT	Value (Rs. in crores)	Qty./ MT	Value (Rs. in crores)
I. Ferrous scrap								
a. P.way scrap ..	3085	5.87	53303	131.42	53041	129.14	3347	8.15
b.other than ..	447	0.82	32004	69.46	31526	68.28	925	2.00
II. Non-Ferrous Scrap	99	0.95	2749	25.24	2659	24.45	189	1.74
III. Rolling stock	Qty./ MT	Value (Rs. in crores)	Qty./ MT	Value (Rs. in crores)	Qty./MT	Value (Rs. in crores)	Qty./ MT	Value (Rs. in crores)
a. Wagon ..	3	0.09	401	12.22	366	11.15	38	01.16
b. Coaches ..	7	0.30	247	16.06	222	14.30	32	02.06
c. Locos ..	0	0	21	2.35	17	1.90	4	0.45
IV. Misc Scrap	Qty./ MT	Value (Rs. in crores)	Qty./ MT	Value (Rs. in crores)	Qty./MT	Value (Rs. in crores)	Qty./ MT	Value (Rs. in crores)
Misc scrap in MT ..	238	0.30	4116	6.41	4184	6.45	170	0.26
Misc scrap in No. ..	50	0.14	1332	1.68	1371	1.81	11	0.01
Total ..	3879.5	8.47	94173	2664.84	93386	257.48	4712	15.83

Shop Issues

Description	Qty. / MTs	Value (Rupees in crores)
Ferrous Scrap	1502	2.48
Non-ferrous Scrap	150	3.76

12. SUPPLY OF UNIFORMS

The Clothing Factory at Perambur caters to the uniform requirements of entire Southern Railway. Uniforms are stitched and supplied for Summer and Winter seasons. While cutting is done at the Clothing Factory, stitching of Cotton/ T.C. uniforms, protective garments is carried out at Handicraft Centers situated throughout Southern Railway. Private contractors also stitch Terry Cotton/ Woollen uniforms.

All Railways employees who interact with Public during the course of their duty are treated as Public Image Category and they are supplied with cut piece cloth and paid stitching charges as prescribed for the Public Image Category from time-to-time instead of supply of stitched uniforms. On implementation of supply of cut piece cloth instead of stitched uniforms, 32 staff were surrendered during 2008-09, by the clothing Factory.

The position of compliance of uniforms during 2008-09 is given below :—

Supply position of uniforms

(Figures in Nos.)

Season	No. of Garments Indented for by the Dept.	No. of Garments actually supplied	No. of Garments to be supplied	Percentage of Compliance
Summer 2008 Cotton and TC	2,03,281	2,03,281	.....	100.00
Summer 2009 Cotton and TC	56965	20347	36,618	35.71%

Performance of Clothing Factory

a. Opening Balance of Cut Garments As on 1-4-2008	:	21,486
No. of garments cut during 2008-2009.	:	49,959
b. Total no. of cut garments dispatched for stitching	:	70,987
Closing Balance of cut garments as on 31-3-2009	:	458
c. Total no. of cut garments dispatched for stitching		
(i) to handicraft center under DPOs	:	50,183
(ii) to Private contractors	:	20,804
d. Total No. of stitched garments received back from		
(i) Handicraft centers	:	57,981
(ii) Private contractors	:	24,500
e. Total No. of stitched garments dispatched to different indentors.	:	88,621
f. Total No. of Readymade garments issued during this year	:	86,289
PIC – Piece length Cloth.	:	1,90,251
Light Blue & Navy Blue Sarees, other Readymade		
Items like Ties, Jersey, Bedroll items, etc.	:	86,289
g. ICF Cutting Work (in numbers)	:	Nil

13. Receipt and Inspection of Stores**(a) Statistics of working of Receipts and Inspection Department of this Railway is as under :—**

	2006-07	2007-08	2008-09
1. No. of Staff for clerical and supervision work (Nos.)	94	91	93
2. Yearly Expenditure of staff (Rs. in Lakhs.)	203.50	202.55	430.54
3. Value of stores inspected/received (Rs. in Lakhs)	33304.07	36137.24	60999.33
4. Cost of receipts and inspection per Rs 100 of value of stores.	0.42	0.38	0.71
5. Receipt notes granted per clerk per month ..	70	40	40

(b) Stores Depot**(1) Accounts and departmental Stock Verification.**

	2006-07	2007-08	2008-09
1. Percentage of items verified with no discrepancy	98.74	98.88	99.21
with discrepancies			
(a) Upto limit of Rs.50/-	0.61	0.26	0.25
(b) Upto limit of Rs.1000/-	0.29	0.38	0.26
(c) Above the limit of Rs.1000/-	0.53	0.48	0.28

(2) Loss and gain brought to light as a result of departmental and Accounts verification (Stores Depots only)

Year	Loss	Gain	(Rs. in Lakhs) Net Gain	Net Loss
2004-05	0.09	1.41	1.32	..
2005-06	2.49	2.98	0.49	..
2006-07	1.66	0.78	..	0.88
2007-08	0.02	2.80	2.80	0.02
2008-09	1.61	2.63	1.02	..

(3) Unit cost of Issues:

	2006-07	2007-08	2008-09
1. Value of stores issued during the year from the depots (Rs. in lakhs).	48198.67	56009.11	65072.12
2. Pay and Allowances of depot staff (Rs. in lakhs).	1040.91	1016.23	1027.27
3. Cost of making issues worth Rs. 100/-	2.16	1.84	1.58

(4) Availability of items.

	(Figs. as on 31-3-2009)
1. Total No. of stocked	7368
2. No. of items available	7246
3. Percentage	98%

(5) Overstock and surplus stores

Details	As on 31-3-2008	(Value in lakh of Rs.) As on 31-3-2009
1. Surplus	3.89	1.33
2. Over Stock	64.11	80.35

(6) Thefts and losses :

Year	Cases of thefts		Loss due to fire	
	No. of cases	Value involved Rs. in lakhs	No. of cases	Value involved Rs. in lakhs
2005-2006	Nil	Nil	Nil	Nil
2006-2007	Nil	Nil	Nil	Nil
2007-2008	Nil	Nil	Nil	Nil
2008-2009	Nil	Nil	Nil	Nil

14. Printing Press

(a) Production:- The total out-turn of Press/RPM of the year was as under :—

Items	Value of Books & Forms printing (in Rs.)	Value of Card tickets printing (in Rs.)	Total
i) Work done for S.Rly.	7,67,77,081	1,74,78,420	8,42,55,501
ii) Work done for others	49,94,513	1,54,254	51,48,767
Total	8,17,71,594	1,76,32,674	9,94,04,268

(b) Paper consumption for Press during the year 2008-09

For general stationery Printing Forms and Books , and for stations and ticket offices, Boards – 215 MTs.

(c) Out-turn of Forms, money value books and card tickets. –

Particulars	Books, Forms & Money value Items (In terms of Books)	Card Tickets printed in Numbers
i) Work done for S.Rly		
2004-2005	54,16,913	9,84,66,550
2005-2006	58,11,654	10,55,50,500
2006-2007	56,09,970	9,52,50,000
2007-2008	57,18,841	8,66,84,000
2008-2009	20,08,626	8,29,42,250
ii) Work done for others		
2004-2005	1,68,772	67,00,000
2005-2006	1,34,215	16,49,500
2006-2007	1,81,321	12,50,000
2007-2008	2,18,545	1,20,111
2008-2009	1,33,737	7,32,750

15. Shipping and Imports :

9 imported consignments were received during 2008-2009. The details of which are as under:-

1. BOX 'N' wagon Axle - 4,604 Nos.
2. BG Coaching Axle - 130 Nos.
3. Solid forged wheels for EMU - 4,658 Nos.
4. Total weight of the Cargo - .. 4,617.795 Mts.
5. Landed cost of the Cargo - .. Rs. 45.31 Crores
(Assessable Value Rs.34.65 Crores and Customs duty Rs.10.66 Crs.)
6. Total No. of 20 Containers
De-stuffed



XI. MEDICAL

Brief of Medical Department

Medical Department of this Railway provides comprehensive health service, both preventive and curative to Railway employees and their families/dependents and retired employees including the employees of Integral Coach Factory, Chennai. Total number of employees are 1,25,861 and 47,158 retired employees.

The specialty departments of Cardiology and Cardio-Vascular Surgery in Perambur Hospital not only caters to the needs of Southern Railway, but also serves the entire Indian Railways. The total bed strength on this Railway is 1,232. 42 Health Units are functioning at different stations on this Railway and there are 13 lock-up dispensaries. A total of 213 doctors, 21 Group B Officers consisting of ANO, AHO, AHEO, APO, APHO and about 3121 para medical staff consisting of 514 Nursing Personnel and other para medical categories are working in this Railway.

In Southern Railway, besides the Perambur Headquarters Hospital with 505 beds there are :—

5 Divisional Hospitals, viz.	Arakkonam- with 50 beds Golden Rock- with 197 beds Madurai-with 115 beds Palghat- with 106 beds Trivandrum -with 50 beds
4 Sub-Divisional Hospitals, viz.	Villupuram -with 26 beds Erode- with 30 beds Podanur- with 28 beds Shoranur- with 24 beds
1 Workshop Hospital	Integral Coach Factory with 101 beds

Lock up Dispensaries, viz: Kadaperi, Kumbakonam, Thiruthuraipoondi, Needamangalam, Ariyalur, Athur, Chinnasalem, Chidambaram, Nagappattinam, Mannapara, Milavittan, Pattukottai, Rameswaram.

Spart at MAS and ARME Scale I and Scale II in the following locations :—

ARME Scale I			ARME Scale II		
Division	Broad Gauge	Metre Gauge	Broad Gauge	Metre Gauge	Narrow Gauge
Chennai	Jolarpettai, Chennai		Arakkonam Katpadi Sullurpet	..	..
Golden Rock	Tiruchchirappalli Villupuram Mayiladuthurai		Virudhachalam Tiruvarur	Thiruthurai-poondi Tiruvannamalai	
Madurai	Madurai	Madurai Sengottai	Dindugul Karaikudi Manamadurai Mandapam Virudhunagar Tirunelveli Tuticorin	Palani	
Palghat	Mangalore Shoranur Erode		Cannanore Calicut Palghat Podanur	Pollachi	
Trivandrum	Ernakulam Quilon		Nagercoil Trivandrum Kottayam Alleppey Trichur		
Salem			Karur		Coonoor

42 Health Units, viz.

Chennai Divn. : 11- Jolarpettai, Katpadi, Haffieldpet, Avadi, New Genl. Office, Chennai Egmore, Tondiarpet, Royapuram, Tambaram, Chenglepet, Sullurpet.

Tiruchchirappalli Divn. : 8- Tiruchchirappalli Junction, Trichy Fort, Srirangam, Virudhachalam, Tiruvannamalai, Mayiladuthurai, Tiruvarur, Tanjore.

Madurai Divn. : 9- Dindugul, Mandapam, Palani, Karaikudi, Sengottai, Tuticorin, Manamadurai, Tirunelveli, Virudhunagar,

Palghat Divn. : 4- Mangalore, Cannanore, Calicut, Pollachi

Trivandrum Divn. : 6- Ernakulam, Quilon, Kottayam, Nagercoil, Trichur, Alleppey.

Salem Divn. : 4- Salem, Mettupalayam, Karur, Coonoor.

Statistics

Man Power

	Staff Strength	On Roll	Vacancies
Doctors	213	184	29 (filled with FTCD)
Nurses	514	487	27

Other paramedical 3,121

From: April-2008 to March-2009

Health Care :

Total OPD Nos.	..	20,91,360
Total IPD Nos.	..	35,624
Major Surgeries	..	4,406
Special Surgeries	..	1,480
Minor Surgeries	..	3,535

Industrial Health :

Total No. of RMCs Issued	..	96,872
Total No. of Man- days loss	..	13,84,382
Man-day's lost due to IOD/ HOD	..	74,044
Total posts created	HMIs	48

System Improvement

Perambur

- I. Patients feedback system introduced at PER
- II. Patients suggestions are taken for consideration at PER
- III. Patients friendly system and more waiting are as created at OPD/PER.
- IV. Streamlining of the procurement process by revision of SOP.

Perambur Hospital

Railway Hospital, Perambur is a 505-bedded hospital. This is a referral hospital not only to the Southern Railway, but also to the whole Indian Railways for Cardiology and 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 done in several areas of work of the hospital and are used not only for clinical and research work, but also for inventory control, office automation, drug and equipment stores and other auxiliary units.

1. (a) Cardiac Unit of RH/PER

The department of Cardiology and Cardiac Surgery is an all India Referral Centre for all types of Heart diseases. In the year 2008-09, 679 Open Heart Surgeries and 79 closed Heart Surgeries (this includes various surgical procedures for coronary artery diseases, congenital heart disease and rheumatic heart disease) were done. About 334 PTMC, PTCA, PVP, PTR and 1,653 Cardiac Catheterisation and Coronary Angiography were done last year.

A very active teaching programme exists with regular seminars, journal reviews and cardiovascular surgery lectures in the departments of Cardiology and Cardio Vascular surgery.

This is an all India referral center for cardiac evaluation and management. This department undertakes treatment of all types of cardiac procedures like cardiac catheterization, coronary angioplasty, pulmonary valvuloplasty, permanent pacemaker implantation, electrophysiology study etc. The department has got almost all the equipment for treating cardiac patients, including two cath Labs, IVUS, 2D echocardiogram with colour Doppler system, holter monitoring system, treadmill machines, etc. About 2000 cases are done every year.

We have established a " **Link Programme** " with the Institute of Child Health, London for advancement in the various techniques of Paediatric Cardiology and Cardiac Surgery.

(b) Department of Cardiac Surgery :

The department of cardiac surgery performs about 1000 open-heart surgeries a year. The spectrum of work includes coronary artery bypass grafting, all types of valve repairs and replacements, congenital corrective surgeries, etc. In the recent years, beating heart surgery is very popular avoiding usage of heart lung machine.

2. Department of Nephrology

Full-fledged Nephrology unit, which is a referral center for the Indian Railways, is functioning. All therapeutic measures, short of transplant are being done here. However, a transplant programme in collaboration with private hospital is available. On an average 3,352 haemodialysis, 237 peritoneal dialysis, 14 renal biopsies, 9 transplants were performed during the year. Facilities for continuous ambulatory peritoneal dialysis (CAPD) also exists.

3. Department of General Medicine

This department has a total of 55 beds, inclusive of 10 ICU beds and 7 semi ICU beds. The modern intensive care unit is known for its quality of work particularly for managing emergencies. The specialized services provided are ultrasound for ward patients, endoscopy, bronchoscopy, thoracoscopy, bronchoalveolar lavage and transbronchial biopsy. EEG, renal biopsy, spirometry, ventilator assistance, pacemaker facility etc.

Well-equipped intensive care unit with non-invasive and invasive diagnostic techniques are available for effective management of medical cases. 658 endoscopies were performed during the year.

4. Department of General Surgery

This department is now a major wing of the hospital, backed by the latest equipment and a dedicated team of surgeons. There has been a vast increase in the quality and quantity of operations done in the recent years.

General Surgery has the latest sophisticated equipments like contact laser, fibre-optic endoscopes and laparoscopic surgical equipments backed up by efficient team of qualified surgical expertise and all types of surgeries are carried out. This department is recognised by National Board Examinations for Post Graduate degree in General Surgery

5. Department of Obstetrics & Gynaecology

The Obstetrics & Gynaecology department has got 52 beds in its wards. The deliveries conducted per year is about 1000. This department is well-equipped and offers good quality treatment to the patients.

6. Department of Paediatrics

Department of Paediatrics has got 60 beds in its wards. This department is well-equipped and offers good quality treatment to the patients. Neo Natology ICU is also available.

7. Department of Psychiatry

A full-fledged department of Psychiatry is functioning in this hospital.

8. Department of Orthopaedics

The department of Orthopaedics has been upgraded and all orthopaedic surgeries including spinal surgery, hip and knee replacements are being done in this department.

9. Department of Otolaryngology

The ENT department has got full-fledged endoscopic facilities, microlaryngeal surgical facilities and Micro Ear surgery facilities. Airway Laser surgical procedures are regularly done.

10. Department of Ophthalmology

Intra-ocular lens implantation and other routine procedures are done in Ophthalmology. About 1,514 cataract operations were performed during 2008-09.

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 was inaugurated by Hon'ble Minister of Railways on 13-2-2004 between Railway Hospital, Perambur and Railway Hospital, Golden Rock. The facility has been extended to Zonal Hospital Maligaon, N.F. Railway and Zonal Hospital, Danapur E.C. Railway, Central Hospital, Allahabad.

Every Friday Doctors of GOC participate in the clinical meetings held at RH/PER through Tele-Medicine Maligaon and Dhanpur doctors contact the Cardiologist as and when required for consultations.

TELEOPHTHALMOLOGY between Railway Hospital, Perambur and Sankara Nethralaya was inaugurated on 19-2-2004 by Dr.K. Suresh, DG/RHS. Regular case discussions are being held.

14. Public Health

Public health wing is looking after the sanitation in colonies and important stations and also in the supply of safe drinking water. Control and prevention of communicable diseases is a major work of this wing. Implementation of PFA Act is ensured by constantly monitoring the quality of foodstuffs, which are being supplied through IRCTC and catering establishments.

Food samples are regularly collected and sent for analysis and action initiated. Details of Food samples collected during 2008-09 are given below :-

No. of food samples collected	328
No. found adulterated	39

Quality of water supplied in 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 2008-09 are given below :-

1. For Bacteriological analysis	73.8%
2. For Residual Chlorine	73.6%

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.

GMR-11

To improve efficiency of health services and to ensure customer satisfaction, a rolling shield called "CMD's Rolling shield for best Health Unit" is given to the best maintained Health Unit every year. This year it was awarded to HU/ERS of TVC division and the shield was presented by GM during the Railway Week Celebrations. In order to improve food hygiene and catering services, "catering service improvement committees" have been formed which is functioning in all divisions. This committee imparts Health Education on food hygiene to all cooks and vendors. To introduce a healthy competition among the caterers, Rolling shields have been awarded every year for the catering units at divisional level and at Head Quarters level.

Sanitation and Cleanliness :

Hon'ble Minister of Railways declared the year 2008-09 as cleanliness year. In order to have a perceptive improvement on cleanliness of Railway stations mechanised cleaning has been introduced in all the A1, A & B category stations. Forty-eight additional posts of Health Inspectors have been created to have enhanced supervision of cleanliness. Special cleanliness campaigns are being conducted in all the A1, A & B category stations.

Inter-divisional cleanliness competitions are also conducted. This year PGT division was awarded with the "Cleanliness Shield".

All efforts are being taken to maintain high standard of cleanliness in Railway stations all over Southern Railway.

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 325, which includes 246 asymptomatic cases and 79 full blown AIDS cases. During this year 54 new cases have reported. All the HIV cases are regularly followed up and required care and support have been rendered by the counselors, attached to the four Integrated Counseling and Testing Centres (ICTC) in Southern Railway. Anti Retroviral Treatment has also been started, for the people living with HIV & AIDS.

Family Welfare Programme :

Reproductive and Child Health services are rendered to the Railway beneficiaries effectively. Regular well baby clinic, Antenatal clinic, Immunization clinic, well baby shows etc. are conducted through out Southern Railway.

During the reporting year 2008-09 687 sterilizations have been conducted through out Southern Railway. Regular Laparoscopic sterilization camps were also conducted. This year Six Laparoscopic camps were conducted. In order to popularize Male sterilization, the month of November was observed as "Vasectomy Month" during which period 34 vasectomy operations were performed in Southern Railway.

In order to create a healthy competition among the divisions "Best FW Centre" award is being given every year to the best performed family welfare center. This year this award was given to the MS/FWC.

Health Promotion

Towards health promotion, we are organising Health Education campaigns by way of classes, Exhibitions, Quiz programmes etc. covering various Communicable and non communicable diseases at Colonies, Offices, Workshops, Yards, Training Schools and Railway Schools, etc.

Pulse Polio Immunisation :

Pulse Polio Immunisation was given to 29,198 children below 5 years during campaign in January and February – 2009.

Control of Tuberculosis :

Health education classes were conducted by Medical Officers of S.Rly. and health education materials were distributed. Screening camps were conducted at Divl.Hospitals and Health Units on Southern Railway.

All TB patients registered are being given Anti-TB drugs without any interruption under DOTS. Protein food supplement are given to TB patients.

St. John's Ambulance Brigade, No.20, S.Rly.Dist :

20,Southern Railway District of SJAB is functioning effectively and First Aid Training to staff are imparted regularly.

Chennai Division : The Medical Branch Headquarters of Chennai Division is at Chennai Egmore and Chief Medical Superintendent is in-charge of the division. The Divisional hospital is located at Arakkonam has 50 beds with a well equipped operation theatre, Laboratory and Maternity care facilities. Regular family planning operations are done at Arakkonam. Sterilisation are done with the latest laparoscopic Technology. Apart from Health units, lockup dispensary is functioning at Kadaperi. ARME scale I is available at Jolarpettai and Chennai Central and scale II at Katpadi, Arakkonam and Sullurpet. At Egmore, a part time dental clinic is functioning with sophisticated Dental equipment. X-ray facilities are available at Egmore and Arakkonam with 300 MA and 50 MA X-ray 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, Tanjavur and Thiruvannamalai). There are 32 Medical Officers posted in TPJ Division. In the Divisional Hospital all routine and specialised work is being done in all the fields. The Divisional Hospital has been recognised by MCI for Senior House surgeonship and there are 3 Senior House Surgeons 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. The hospital is looking after the entire division and all the routine and specialised works are being done in the hospital. This hospital is recognised by MCI for Senior House Surgeonship and there are three Senior House surgeons.

Palghat Division : The Divisional Hospital at Palghat is well equipped. All the routine and specialised works are being done in the divisional hospital at Palghat. It has a well equipped ICCU unit. This hospital is also recognised by MCI for Senior House Surgeonship. There are 3 Senior House Surgeons available here. The Sub-Divisional Hospital at Shoranur is also well equipped. The total bed strength in the division is 132 and 17 Medical Officers have been posted in this Division. There are 4 Health Units at Kozhikkode, Cannanore, Pollachi, 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 50 bedded Divisional Hospital at Trivandrum Pettah. There are 6 Health Units at Quilon, Ernakulam, Nagercoil, Kottayam Trichur & Alleppey.

The health unit at Alleppey started functioning on 15.9.99. Apart from the above a Medical out post is functioning at Irupanam which is attended to by Sr.DMO/Ernakulam on a programmed basis. A Medical out post is also functioning at Thycaud- TVC, twice a week for the convenience of the Divisional office staff.

The Medical department in TVC division is functioning under the overall control of the Chief Medical Superintendent. The Hospital at TVC, consists of a sanctioned strength of 9 doctors, comprising specialists in Paediatrics, General Surgery and Clinical Pathology.

A dental clinic is also functioning at RH/TVC with a full time DDS.

There are 44 general beds and 6 maternity beds with facilities for X-ray, ECG & Lab. Investigations. A physiotherapy unit with all major equipments is also functioning. On 17.09.2008 an Intensive Care Unit with 4 Beds were added.

ICF/PER : ICF Hospital is a 101 bedded hospital. Workload at this hospital is heavy and most of the retired Railway employees are also taking treatment here. At present there are 19 doctors. Most of specialised works are done in this hospital. There are two First Aid posts attached to ICF Hospital, one at ICF/Furnishing and the other at ICF/Shell Workshop.

2. Statistics for the year 2007-2008 and 2008-09

Sl. No.	Particulars	2007-08	2008-09
1	Total No. of staff	1,13,025	1,25,431
2	Cost of Medical services	58,52,65,000	95,70,12,000
3	Cost of Medical services per head per annum	5,851.71	8,509.64
4	Cost of Health service in thousands of rupees	14,45,80,000	20,73,50,000
5	Cost of Health service per head per annum	1,445.56	1,843.75
6	(a) Cost of drugs in rupees	20,42,51,000	30,34,80,000
	(b) Total amount of reimbursement in rupees	..	..
7	Total cost of Medical & Health in service per annum per head in Rs.	7,297.27	10,353.37
8	No. of Rly. employees & their families treated – New cases	8,75,871	9,17,339
9	No. of females & children treated – New cases	3,50,559	4,75,301
10	Daily average – out door attendance of Rly. employees & their families at Rly. Hospital/ health units/ old & new cases	4,807	3301
11	No. of Hospital	12	12
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	16136	10868
14	No. of chest clinics	7	7
15	No. of dental clinics	6	6
16	No. of maternity clinics	26	26
17	No. of beds		
	A General	963	963
	B TB	57	57
	C Maternity	126	126
	D Isolated	5	5
	E ICCU	81	81
	Total	1232	1232
18	Health units		
	A Emergency beds	52	52
	B Maternity beds	18	18
19	Total No. of beds in hospitals/ health units, chest clinics etc	1302	1302
20	No. of beds per 1000 Rly employees including TB beds	10.10	10.10
21	No. of beds per 1000 Rly employees excluding TB beds	9.63	9.63

Sl. No.	Particulars	2007-08	2008-09
22	No. of TB beds reserved in Railway institutions	0	0
23	No. of Doctors		
	A Chief Medical Director	1	1
	B Dy. CMD/ T&A	1	1
	C Dy. CMD/ H & FW	1	1
	D Chief Health Director	1	1
	E Chief Medical Superintendent	5	6
	F Medical Superintendent/Sr. DMOs	196	196
	G Medical Directors	1	1
	H Chief Surgeon	1	1
	I Chief Staff Surgeon	2	2
	J Chief Dy. Medical Superintendent	0	2
	K Chief Pediatrician	1	1
	L Chief Gynecologist	1	1
	Total	213	213
24	No. of Rly. Population per Rly. Doctor	2829	2806
25	No. of mobile vans	0	0
26	Accident relief medical equipment		
	A ARME scale/I	16	13
	B ARME scale/II	27	28
27	No. of operations performed		
	A Major	5136	4777
	B Minor	3531	3869
	C Trivial	14506	5718
28	Family welfare activities		
	A Centres	4	4
	B Sub- Centres	2	2
29	No. of sterilization operation performed		
	A Tubectomy	609	649
	B Vasectomy	12	38
	Total	621	687
30	No. of I.U.D. inserted	256	167
31	No. of conventional contraceptives distributed		
	A Condom users	2995	2741
	B Diaphragm	0	0
	C Jelly cream tubes	0	0
	D Foam tablets	0	0
32	Oral pills distributed		
	A No. of oral pills	1514	1146
	B No. of users of oral pills	116	88
33	Recanalisation facilities		
	A No. of Railway Hospital doing recanalisation	5	1
	B No. of cases done	0	0

XII. STAFF

1. General

During the year under review cordial and harmonious relations were maintained in this Railway.

2. Number and cost of Staff for 2008-2009 compared with 2007-2008

Group of staff	Number of staff					
	Open line		Construction		Total	
	2008-09	2007-08	2008-09	2007-08	2008-09	2007-08
Group 'A'	471	518	104	76	575	594
Group 'B'	430	418	63	118	493	536
Group 'C'	84,590	75,406	1,346	1,346	85,936	76,752
Group 'D'	15,050	26,344	418	454	15,468	26,798
Total	1,00,541	1,02,686	1,931	1,994	1,02,472	1,04,680
Cost of staff (Rs. in lakhs)						
	2008-2009		2007-2008			
Group 'A'	6,198.63		3,609.76			
Group 'B'	5,450.11		2,967.19			
Group 'C'	3,72,250.14		1,95,713.80			
Group 'D'	53,528.28		39,283.31			
Total	4,37,427.16		2,41,574.06			

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 2008-2009			No. actually appointed in 2008-2009		
	SC	ST	OBC	SC	ST	OBC
Group 'C'	907	406	1716	668	283	1288
Group 'D'	825	376	1334	710	290	1037

(b) Promotion of S. C. /S. T. candidates in Group 'C' & 'D' Services : 2008-2009

(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'	178	82	208	85
(ii) Within Group 'D'	—	1	—	—

(ii) Non-selection Posts

Category	No. of vacancies reserved		No. of employees actually promoted	
	Scheduled Castes	Scheduled Tribes	Scheduled Castes	Scheduled Tribes
(i) Within Group 'C'	536	332	755	345
(ii) Within Group 'D'	154	131	249	75

(c) Short fall in S. C./S. T./O. B. C. as on 31st March 2009

Recruitment Categories	Scheduled Castes	Scheduled Tribes	Other Backward classes
Group 'C'	145	281	450
Group 'D'	71	114	205

(d) Short fall in S. C./S. T. as on 31st March 2009

Promotional Categories	Scheduled Castes	Scheduled Tribes
Group 'C'	710	1317
Group 'D'	236	442

(e) Statement showing the Number of employees belonging to Scheduled Castes and Scheduled Tribes as on 31st March 2009 —

Group	Total No. of employees as on	Scheduled Castes	Percentage	Scheduled Tribes	Percentage
Group 'A'	497	109	21.93	39	7.84
Group 'B'	530	117	22.07	57	10.75
Group 'C'	72,196	13,363	18.50	4,381	6.6
Group 'D'	27,274	4,360	15.98	1,700	6.23
(excluding Safaiwala)					
Group 'D'	2,122	803	37.84	84	3.95
(Including Safaiwala)					

4. Recruitment and Training

(a) Recruitment :

(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 2008-2009, are as follows :—

Department	Group 'A'	Group 'B' (Promotion)
Personnel	—	6
General Management	—	3
Electrical	—	23
Transportation (Traffic & Comm.)	1	4
Engineering	3	6
Stores	—	2
S & T	—	10
Medical	3	1
Mechanical	2	9

(ii) Number of Group 'B' Officers absorbed in Group 'A' during the year 2008-2009.

IRPS—3, IRSEE—7, IRTS—11, IRSE—5, IRSSE—0, IRSME—11

(b) Training :

(a) (i) Group 'A' and 'B' services.

Staff strength on Southern Railway Department wise as on 31-03-2009.

Sl. No.	Department	Group 'A'	Group 'B'
1.	General Management	27	43
2.	Personnel	20	44
3.	Accounts	33	71
4.	Engineering	75	134
5.	Transportation & Commercial	44	70
6.	Mechanical	38	44
7.	Stores	27	31
8.	Electrical	39	66
9.	Signal & Telecommunication	34	72
10.	Medical	193	15
11.	Security	23	—
12.	Railway Schools	—	11
13.	Press	—	1
14.	ACMT	1	4
Total		554	606

(ii) The number of officers who attended the training courses during the year 2008-09 are as follows :—

Training Institutions	Mandatory Course
RSC-Vadodara	62
IRICEN-Pune	56
IRISET-Secunderabad	14
IRIMEE-Jamalpur	15
IRIEN-Nasik Road	29

(iii) Statement for the Financial year ending 31st March 2009 regarding Privilege Passes and P.T.Os issued to Railway employees :—

Class	Group	Privilege Passes			PTOs		
		No. of Rly. Empls. to whom issued	No. of Sets Available	No. of persons included	No. of Rly. Empls. to whom issued	No. of Sets Available	No. of persons included
I Class 'A'	Group 'A'	591	2789	13732	579	2703	6712
	Group 'B'	211	2771	10930	501	1861	5811
I Class	Group 'C'	29062	57235	76782	18528	35704	37817
II Class	Group 'C'	46540	129708	190399	34566	70450	72490
II Class	Group 'D'	40113	99655	167401	25481	25622	88794

(c) (i) Appointments in Group 'C' and Group 'D' categories for the year 2008-09.

	Group 'C'	No. indented	No. supplied
1. Technical	..	944	904
2. Non-Technical	..	288	222
3. NTPC

(ii) Recruitment of non-gazetted staff for the year 2006-07 and 2008-09 are as under :—

Year	Group 'C'	Group 'D'	Total
2007-2008	928	Nil	928
2008-2009	1126	Nil	1126

(iii) Number of persons appointed against physically handicapped quota and on Compassionate grounds for the year 2008-09.

	Group 'C'	Group 'D'
a) No. of Physically Handicapped persons appointed	01 (OH)	Nil
b) No. of persons appointed on Compassionate grounds	182	383

(d) Training - Group 'C' Staff :

Sl. Nos.	Branch	Initial	Refresher	Promotional	Special	Total
1.	Mechanical	3582	1373	352	7249	12556
2.	Electrical	684	1294	344	694	3016
3.	Engineering	1644	3124	102	967	5837
4.	S&T	257	342	154	544	1297
5.	Traffic & Comm.	2200	5432	944	5231	13807
6.	Personnel	—	—	—	—	—
Total		8367	11565	1896	14685	36513

5. Relations with Labour

Industrial relations play a vital role in any industry for improving productivity. Indian Railway being one of the major industries pay much attention for maintaining cordial industrial relation. There are 2 recognised federations at the apex level viz., NFIR & AIRF. Southern Railway Mazdoor Union (a constituent of AIRF) and Dakshin Railway Mazdoor Union (affiliated to CITU) are two recognised Unions at Zonal level.

There are Permanent Negotiating Machinery (PNM) functioning at three tiers viz., Railway Board, Zonal level and Divisional/Extra-Divisional level. The PNM meetings are conducted regularly and the problems are sorted out across the table after mutual consultations with each other to the best satisfaction of the both the Organised Labour and the Administration. Besides PNM meetings, Joint /Special meetings are held to sort out the various day-to-day issues. Apart from this, Organised Labour are having their members in Central/Division Staff Benefit Committee, Housing Committee, Canteen Committee, Hospital Visiting Committee, etc.

6. Implementation of Labour Laws

Provisions of all Labour Laws pertaining to Railways viz., Hours of Work and period of Rest Rules 2005, Payment of Wages Act, Trade Union Act, Workmen Compensation Act, Industrial Disputes Act & Minimum Wages Act are being implemented to the satisfactory level duly taking into account the deficiencies pointed out by the various agencies like Regional Labour Commissioner, Assistant Labour Commissioner and Labour Enforcement Officers / Inspectors concerned.

7. Labour Welfare

The Welfare Organization consisting of Staff & Welfare Inspectors headed by the Sr. Divisional Personnel Officers, Workshop Personnel Officers and Senior Personnel Officers maintain regular contacts with employees and render assistance to staff in the redressal of their grievances.

Staff information Centres at Zonal Headquarters, all Divisional Headquarters and at the Major Stations and Sheds provide information and assistance to staff on all personnel and welfare matters. These centres have been found to be of immense help to the staff. Staff & Welfare inspectors have been nominated exclusively to attend to the grievances of the sensitive categories of staff.

Grievances Adalats are held periodically at nominated stations to redress the grievances of employees. Pension Adalats and Adalats for Compassionate Ground appointments are conducted every year to redress the grievances of retired employees and wife/wards of deceased Railway employees.

8. A. Staff Benefit Fund**(a) Constitution and composition of the Staff Benefit Fund Committee**

CPO	:	Chairman
CPO/IR	:	Ex-officio
Dy. CMD	:	Ex-officio
Dy. CPO/Welfare	:	Secretary
AFA/XC	:	Representing FA&CAO
Three Representatives from	:	Southern Railway Mazdoor Union
Three Representatives from	:	Dakshin Railway Employees Union

(b) Brief account of the various schemes and activities financed out of the Fund :—

		Amount Allotted
(i) Education	@ Rs. 74.75 per capita	Rs. 84,14,682
(ii) Recreation and amusement		
(a) Recreation other than sports	@ Rs. 37.25 per capita	Rs. 41,93,269
(b) IRCC	@ Rs. 10.50 per capita	Rs. 11,81,996
(c) Women Empowerment	@ Rs. 10.50 per capita	Rs. 11,81,996
(d) Misc.	@ Rs. 20.50 per capita	Rs. 23,07,705
(iii) Relief to distressed and Sickness benefits	@ Rs. 70.50 per capita	Rs. 79,36,255
(iv) Sports	@ Rs. 35.00 per capita	Rs. 39,39,985
(v) Scouting	@ Rs. 13.50 per capita	Rs. 15,19,709
(vi) Indigenous System of Medicine including Homoeopathy	@ Rs. 22.50 per capita	Rs. 25,32,848
(vii) Immediate relief in times of crises & natural calamities	@ Rs. 28.00 per capita	Rs. 31,51,988
(viii) Training for development of occupational skills for physically and mentally challenged wards especially girls.	@ Rs. 27.00 per capita	Rs. 30,39,417
Total	@ Rs. 350	Rs. 3,93,99,850

II. Institutes and Clubs :—

(i) Number of Railway Institutes as on 31st March 2009	39
MAS : (JTJ, KPD, TRL, TBM, CGL, AVD, PER)	7
MDU : (MDU, DG, VRT, PLNI, MVN, MNM, TN, KKDI, TEN, SCT)	10
TPJ : (TPJ, MV, TP, VM, SRGM)	5
PGT : (PGT, SRR, CLT, MAQ)	4
TVC : (NCJ, ALLP, QLN, TCR, Irupanam, ERMG, Thampanoor, PJP)	8
SA : (SA, ED)	2
GOC : (Ponmalai)	1
EWS/AJJ : (AJJ)	1
S & T/PTJ : (PTJ)	1
(ii) Number of Officer's Clubs as on 31st March 2009	9
MAS :	2
MDU :	1
TPJ :	1
TVC :	1
PGT :	1
SA :	1
ST & PTJ :	1
GOC :	1

III. Financial Assistance for Technical Education :

6854 wards of Railway employees have been given financial assistance during 2008-2009 for prosecution of Technical education and the total expenditure incurred in respect thereof from the Staff Benefit Fund is as below :—

Degree	: 6854 x 1000 = Rs. 68,54,000
Diploma	: Allocation made from Sub-Committees
Total	6854 = Rs. 68,54,000

Since, all the applications received from the employees are sanctioned, the scholarship for the year 2008-2009 and therefore the number of applicants from SC/ST are not maintained separately.

IV. Railway Schools :

There are 11 Railway Schools (i.e., 4 Higher Secondary Schools and 7 High Schools) in English, Tamil and Malayalam mediums situated in the territorial jurisdiction of this Zone, spread (fully/partially) over Tamil Nadu and Kerala States, to extend educational facilities mainly to the wards of Railway Employees. 5,590 children had studied in the Railway Schools during the year 2008-09.

Kumari S. Vaishnavi, and G. Swathy, students of Railway Mixed Higher Secondary School, Perambur and wards of Railway employees have scored third & fourth rank respectively in the State Level Anglo Indian Board Examination 2008-09. They have felicitated at the 115th CSBF Committee Meeting and awarded Rs. 3,000/- and Rs. 2,000/-

(ii) Book Bank:-

The Southern Railway Book Banks have become very popular of late. Altogether 6 Book banks are functioning at Hqrs, TPJ, MDU, PGT and TVC & SA. These Book Banks cater to the needs of technical and non-technical students, who are wards of Railway employees prosecuting higher studies. A sum of Rs.15 lakhs has been sanctioned as grant for the Book Banks during the year 2008-2009.

(iii) Imparting Training in Stenography:-

In the 113th CSBF Committee meeting held on 14.02.2008 it has been decided that due to dearth of staff in Stenographers cadre, training should be imparted to the willing staff in Stenography by reputed institutes. An amount of Rs.42,900/-

has been sanctioned for this purpose. Applications have been called for. More than 200 applications have been received. 33 employees from Group 'C' category have been selected to undergo training at the **Stenographer's Guild, Chennai-17.**

B. Schemes of Benefits to the Sick :

(i) Medical Review Camps for the benefit of Physically Challenged Wards of employees are conducted regularly by the Medical Department of this Railway. Four camps were conducted during 2008-09 (TVC, NCJ, MDU & MAS) 636 employees/ family members have been benefited by these camps.

(ii) Financial Assistance of Rs.4,98,500/- (Rupees Four lakhs Ninety Eight thousand and Five Hundred only) was sanctioned to employees for sickness benefit during 2008-09.

(iii) An amount of Rs.79,500/- (Rupees Seventy nine thousand five hundred only) was sanctioned for Deaf, Dumb, Mentally & Physically challenged wards of Southern Railway employees during 2008-2009.

(iv) The cost of light refreshment to voluntary Blood Donors at RH/PER is reimbursed by CSBF. The ceiling limit is Rs.17,000/- per month.

(v) **Special incentives to acceptors of Vasectomy:** Rs.5000/- is offered for Vasectomy Sterilization for those having one child and Rs.2,500/- is offered to those having two children.. An amount of Rs.1,25,000/- has been allotted for the same during the year 2008-09.

(vi) **Indigenous system of medicine :** In order to provide indigenous system of medicine to such of those employees and their family members who are desirous to avail the same, 7 Homoeopathy Dispensaries and 1 Ayurvedic Dispensary are functioning on this Railway. Homoeopathic and Ayurvedic medicines are supplied to these dispensaries from CSBF. An amount of Rs. 25,32,848/- has been allotted for the same.

C. Recreation and Amusement :

(i) Funds are allotted from Central Staff Benefit Fund for promoting Sports activities and scouting activities. The total amount allotted for sports activities during 2008-2009 was Rs.39,39,986/- and a sum of Rs.15,19,709/- has been allotted for scouting activities.

(ii) Newspapers are supplied to Railway Employees and their wards who are in- patients in the Railway Hospitals.

(iii) Varieties of cultural programmes are being held periodically. Employees with exceptional talent in respect of various cultural events like Dance, Drama & Music are sponsored for participation in the Inter-railway Cultural Competition every year. A sum of Rs.11,81,996/- has been allotted from the Staff Benefit Fund for promoting cultural activities. An amount of Rs.5 lakhs has been apportioned from this amount for promotion of cultural activities in Railway Schools. The amount is distributed equitably among the 11 Railway Schools of Southern Railway. The remaining amount is distributed in the ratio of 2:1 for Headquarters and Divisions/Units respectively.

(iv) Holiday Camps for men & women employees and children are being conducted regularly on this Railway under the auspices of the Staff Benefit Fund. An amount of Rs.6,00,000/- has been allotted for the same during the year 2008-09. From 27.05.2008 to 30.05.2008, a Holiday Camp for the benefit of wards of Railway Employees was held at MUNNAR. During the stay at MUNNAR, the children were taken to "Kannan Devan Tea" Factory and shown the entire Tea processing. The children were also taken to ERAVIKULAM right on top of the Hills where they not only enjoyed the salubrious weather but also had an opportunity to see a rare breed of goats (Viraiyadu). More than 55 children in all attended the well organised camp. Apart from MUNNAR, the children were also taken to KURANGANI HILLS as well as the famous Madurai DAM. All the children thoroughly enjoyed the camp. Similarly, Divisions also organised various camps during the year 2008-09. the following are the elaborate details:

Division/ Unit	Holiday Camps conducted	No. of partici- pants	Amount spent (Rs.)	Places of Visit.
HQRS	Children	55	1,35,000/-	Munnar & BDNK.
MDU	Women	65	92,050/-	Mysore
	Men	48	3,32,060/-	Simla
TPJ	Children	50	65,450/-	Kochin & ERS.
TVC	Children	50	50,000/-	ERS & Veega Land.
LW/PER	Children	58	71,502/-	CAPE, MDU, & TEN.
CW/PER	Children	57	65,452/-	SBC & MYS
CEWE/PER	Children	51	25,243/-	MTP & UAE
GOC	Children	50	90,987/-	ERS, CAPE & TVC
PTJ	Children	11	10,350/-	ONR & UAM

Women Empowerment Activities Approximately 10140 women employees, spread over different Divisions /Units are working in Southern Railway. Keeping in view their empowerment in various fields, a preliminary meeting had been convened @ Headquarters on 06.01.2009. Various points/views were elicited from the women representatives of all the Divisions/Units, who had attended the meeting. As a result, the strategies to be adopted for women empowerment have been worked out. All the Divisions/Units have been advised to call for volunteers and to nominate women representatives to head the Women Empowerment Resource Centre(WERC). There has been overwhelming response to the action initiated for women empowerment. An amount of Rs.11,81,996/- has been allotted by the CSBF Committee and the same has been distributed to all the Divisions/Units towards expenditure for women empowerment activities. Specific guidelines have been given to the Divisions/Units to draw a year long programme like conducting workshops, seminars, talks, etc. by inviting eminent personalities from various fields for the benefit of the women employees.

On 13-03-2009, International Women's Day Celebrations were held at Headquarters in a befitting manner. Apart from organizing cultural programmes to mark the day, eminent personality by name Ms. Mubeen Taj from SCHIZOPHRENIA RESEARCH FOUNDATION, CHENNAI delivered an inspiring speech on 'needs of working women'. General Manager/ Southern Railway was the Chief Guest on the occasion.

D. Miscellaneous :

(i) An amount of Rs.4,07,728/- has been allotted for miscellaneous expenditure. This amount is utilized for catering, for granting cash awards and other petty expenses.

(ii) Arun Prakash, ward of Railway Employee was honoured for his excellence in sports and other activities. He was felicitated in absentia and his mother Mrs. Sugantha Muralidhar, Retd. OS, CPO/O/MAS who was the pivotal force behind his extraordinary success, received a memento worth Rs.10,000/- on her son's behalf. The above felicitation was arranged during the International Women's Day Celebration on 13-03-2009 at Headquarters office.

V. Mobile Libraries:

There is no mobile library functioning in this Railway. However, there are 6 Book Banks functioning under the Staff Benefit Fund in the following area :—

Headquarters Office : 1 (This includes MAS Dn. and Other offices in and around Chennai)

TPJ Division : 1
MDU Division : 1
PGT Division : 1
TVC Division : 1
SA Division : 1

An amount of Rs.15,00,000/- was allotted to the above 6 book banks.

VI. Vocational Training Centre:

This Railway is not providing any financial assistance under SBF to the Vocational Training Centers.

VII. Handicraft Centres:

The following Handicraft Centers are functioning during the year under review :—

(a) Total number of Handicraft Centers (with locations). : 23

Locations:-

MAS Division – PER = 1
(9) AYANAVARAM = 1
MS = 1
WST = 1
TNPM = 1
TBM = 1
CGL = 1
KPD = 1
JTJ = 1

PGT Division – PGT = 1
(3) SRR = 1
CAN = 1

SA Division
(2) SA = 1
ED = 1

TVC Division
TVC = 1
(3) NCJ = 1
ERS = 1
MDU Division – MDU = 1
(1)
TPJ Division – TPJ = 1
(5) TP = 1
TJ = 1
MV = 1
VM = 1
S&T/WS/PTJ – PTJ = 1
(1)
GOC – GOC = 1
(1)
EWS/AJJ – AJJ = 1
(1)

Rs. 4,00,000/- was allotted for grant towards remuneration to Handicraft Centre from CSBF for the year 2008-2009 and from this amount Honorarium to the instructors of the Handicraft Centers is paid.

VIII. Homoeopathic Dispensaries/Other Non-allopathic Dispensaries.

A brief account of the working of Homoeopathic and other Non-allopathic dispensaries is furnished as below :—

(a) In order to provide indigenous system of medicine to such of those employees and their family members who are desirous of having such treatments, the following Homoeopathy/Ayurvedic dispensaries are functioning on this Railway on part time basis :—

Headquarters Office/NGO/MAS - Homoeopathic Dispensary.
Ayanavaram - Homoeopathic Dispensary
Madurai Division - Homoeopathic Dispensary
Palakkad Division - Homoeopathic Dispensary
Tiruchchirappalli Division - Homoeopathic Dispensary
Golden Rock Workshop - Homoeopathic Dispensary
Podanur Workshop - Homoeopathic Dispensary
Shoranur (Palakkad Division) - Ayurvedic Dispensary

A sum of Rs. 25,32,848/- has been allotted to be spent on the Indigenous system of Medicine during 2008-2009.

b) Place at which the dispensaries were opened during the year with date(s) of opening indicating the system i.e., whether Homoeopathic or Ayurvedic – Nil.

c) Particulars of buildings in which Homoeopathic dispensaries other Non-allopathic dispensaries are functioning :—

(i) Railway Hospital Buildings - 7
(ii) Railway Health Unit Buildings - 1
(iii) In other Railway Buildings - Nil

d) Number of Homoeopathic/Ayurvedic Physicians with names, date of engagement, educational qualifications and details of experience :—

Headquarters Office/NGO/MAS	Homoeopathic Dispensary
Dr. L. Saraswathy, D. H. M. S.	11-6-93 16 Years
Ayanavaram	Homoeopathic Dispensary
Dr. V. R. Murugan, D. H. M. S.	01-3-77 32 Years
Madurai Division	Homoeopathic Dispensary
Dr. Chidamburanathan, B. H. M. S.	22-5-01 8 Years
Palghat Division	Homoeopathic Dispensary
Dr. Meera Sunil, D. H. M. S.	06-3-02 7 Years
Tiruchchirappalli Division	Homoeopathic Dispensary
Dr. P. R. Arasi, B. H. M. S.	02-12-98 11 Years
Golden Rock Workshop	Homoeopathic Dispensary
Dr. Y. A. Ravoop, R.I.M.P., R.M.H.P.	16-10-87 22 Years
Podanur Workshop	Homoeopathic Dispensary
Dr. B. Lalitha, D. H. M. S.	03-12-03 6 Years
Shoranur (Palghat Division)	Ayurvedhic Dispensary
Dr. K. Unni Krishnan, D. A. M.	04-4-99 10 Years

e) Honorarium at prescribed rates is being paid to Physician/Dispensers/Helpers (from the date of their engagement).

IX. Holiday Homes/Convalescent Homes:

(1) (a) No. of Holiday Homes as on 31.3.2009 (with places of location) are as below:—

Divisions	Location	No. of Suites Available	
		Group C & D Staff	Officers Group A & B
MDU	MADURAI	5	2
	RAMESWARAM	2	2
	SENGOTTAI	-	1
	MANAMADURAI	-	2
	COURTALLAM	6	-
	PALANI	2	-
	KODAIKANAL	8	5
PGT	MANGALORE	-	2
	CANNORE	-	2
	SHORANNUR	-	2
	PALGHAT	-	12
	COIMBATORE	-	3
	COONOR	4	4
	OOTY	8	1
	FERNHIL	-	2
	KARUR	-	2
TVC	KANYAKUMARI	4	8
	TRIVANDRUM	-	4
	QUILON	-	2
	ERNAKULAM	-	7
	TRICHUR	-	2
MAS(HQ)	ORH/MMC	-	24
	OOTY	-	3
	FERNHIL	-	2
	LOVEDALE	-	1
	THIRUMALA	-	2
MAS	KATPADI	-	2
	JOLARPETTAI	-	4
	SULLURPETTAI	-	2

b) Home added/deleted with date etc—Construction of officers' rest house and holiday homes at Munnar (approved by Rly. Board).

2 (a) No. of convalescent Homes as on 31-3-2009 – Nil.

(b) Addition/deletion details regarding Convalescent Homes added/deleted with date – Nil.

(3) Whether opening of new Holiday Home/Convalescent Home is under consideration, if so, brief details regarding location, accommodation and date of likely completion to be furnished – Nil.

X. Miscellaneous:

SALIENT FEATURES OF SOUTHERN RAILWAY WOMEN'S WELFARE ORGANISATION

Ashraya : A school for mentally challenged children for wards of Railway men and outsiders is being run by the Southern Railway Women's Welfare Organization (Headquarters) Chennai. There are 59 Children (from 6 years onwards) on rolls with varying degrees of IQ are trained in academics and vocation. Computer education is also imparted to the students. The students are provided with all necessary physiotherapy equipments. Apart from the Headquarters organization, such schools for differently-abled children are run by Southern Railway Women's Organization/Tiruchchirappalli (Udaya) and Southern Railway Women's Organization/Madurai (Akshaya).

Education : Educational assistance to the tune of Rs. 4,14,000/- is sanctioned for the year 2007-08 to the wards of Group "D" staff physically disabled and wards of widows on compassionate appointment (Group "C" and "D") of Railway employees pursuing degree, professional, Managerial and post-graduate courses. Every year an amount of Rs. 1,00,000/- is donated to the Southern Railway Book Bank towards purchase of Books.

Welfare : A Creche named "Blossoms" with strength of 46 is run at Perambur for the benefit of working parents.

Shop : A retail shop with name Swabhimani was opened at Railway Hospital, Perambur to cater to the needs of inpatients/their family members.

Other Activities : Tiruchchirappalli and Chennai Division have schools up to 10th Standard and primary classes at Palghat and Trivandrum are run by this organization. Handicraft Centers for the wives and wards of the Railway men function at Chennai, Palghat, Tiruchchirappalli and Madurai Divisions.

(a) Social Welfare Centers – Nil.

(b) Mahila samities – Nil.

(c) Kalamandir – Nil.

Addition/deletion made during the year in respect of the above – Nil.

1. Any other matter not covered by the detailed heads mentioned above is – Nil.

Pro forma for submitting Income and Expenditure Statement of Staff Benefit Fund 2008-09

Receipt	Income (Rs. 350 per capita)	Expenditure (Rs. 35 per capita)
B/F from the financial year 2007-2008	10,88,025	46,92,503
Allotment @ Rs.35/- per capita for the Year 2008-2009	(+) 39,39,985	3,962,735
Additional <i>Ad hoc</i> grant Rs. 315	(+) 354,59,865	---
Assistance exclusively for Rly. Schools	10,000	0
Add 50% of amount spent on scholarship during 2007-2008 (Authority: No.E(W)2001/FU-1/4 dated 20.08.2001)	(+) 32,02,400	30,51,950
Total Receipt for the year 2008-09	4,37,00,275	11,707,188
Less amount allotted to Sub-Committee	(-) 1,52,34,608	11,32,209
CSBF Total fund available for the year 2008-2009	2,84,65,667	1,05,74,979
Proposed Expenditure for the year 2008-2009		
1. Scholarship for Professional courses	70,00,000	50,00,000
2. Assistance exclusively for Rly.Schools	10,000	0
3. Assistance to staff for educating their Blind, Deaf, Dumb, Mentally retarded & Physically handicapped children, etc. admitted in recognized schools.	5,00,000	40,000
4. Book Bank	15,00,000	7,00,000
5. Holiday camp for Male Staff/Female Staff/Children	6,00,000	4,00,000
6. Inter-railway Cultural Competition	11,81,996	56,610
7. Relief of Distress, Sickness benefit to Staff & Other family member, Blood Bank, Extra Comforts at RH, News Paper & Magazine supply to Railway Hospital.	15,00,000	15,53,109
8. Women Empowerment Activities	11,81,996	56,611
9. Sports Activities	39,39,985	5,66,105
10. Scouts Activities	15,19,709	3,96,274
11. Recreation facilities for officers and supervisory staff	---	3,39,663
12. Indigenous system of medicines including Homoeopathy	25,32,848	2,83,052
13. Miscellaneous	4,07,728	3,17,450
14. Grant towards remuneration to Handicraft Centre	4,00,000	3,00,000
15. Immediate relief in times of crises & natural calamities	31,51,988	3,39,663
16. Training for development of occupational skills for physically and mentally challenged wards especially girls.	30,39,417	2,26,442
17. Reserve Fund	0	0
Total	2,84,65,667	1,05,74,997

Sports Activities :**Achievement of Southern Railway Sports Association in the ALL India Railway Championships.**

Southern Railway performed well in the year 2008-09. We have secured the overall Second place in the Games at the All India Railway Championships.

Achievement of Southern Railway Sports Persons in the National/International Meets.

Athletics:- Ms.Preeja Sreedharan is selected to represent India at the Beijing Olympics after qualifying at the international meet at London in July. Representing India at the Asian Indoor Games at Doha Sajeesh Joseph won the Silver in 800 m and Ms. Preeja Sreedharan won the Gold in 3000m. Binish Soman represented Indian Railways at the World Railway Games in Czech Republic and the team won the Gold. Shri.R.Ramanathan, CAO/CN was the Chief de mission for the Games. Our athletes Arunjith, Bibin

Mathew, Srijith, Sateesh Joseph, Joseph Abraham, Bimin, Binish, Sharada Narayanan, Preeja Sridharan, V.S.Surekha, Saraswathy won the Gold at the Open National Athletic Championships in November, 2008 representing Indian Railways.

Basketball (Men): Shri Leonard Charles and Saravananarajan represented Indian Railways at the Sr.National Basketball Championships and Won the Silver.

Basketball (Women): Miss Geethu Anna Jose, was selected by Basketball Federation of India to play league matches at Melbourne (She is the first women basketball player to play profession league in Australia). Ms.Anitha, Geetu Anna Jose, Adhirai Shyamala Suguna Jothi represented Indian Railways at the Sr.National Basketball Championships and Won the Gold.

Bodybuilding:- Shri V.Suryanarayana won the Gold in the 55 Kgs. Category, Shri Rex Varghese won the Gold in the 90kg Category and Shri P.P.Sameer at the Sr.National Body Building Championships in June, 2008 representing Indian Railways.

Boxing:- At the Sr.Nationals representing Indian Railways Shri.Vikas.Malik won the Gold and Shri Sukhwinder won a Silver Medal.

Chess: Shri K.Ratnakaran, has represented India at the Philadelphia Open Chess and Canadian Open Chess Tournaments. Shri.B.T.Muralikrishna has obtained the International Master norm in the field of Chess. Shri Ratnakaran and Muralikrishna are to represent Indian Railways at the World Railway Chess Championships in Czech Republic in September.

Snooker:- Shri Rafath Habib, Snooker player from our Railway has represented Indian Railways and Won the Gold at the National 9 Balls and won the Bronze at the National 8 Ball pool.

Volleyball (Women) :- Ms.Preeti Kartha and Betsy represented Indian Railways at the Sr.National Volleyball Championships and won the Silver Medal.

Weightlifting:- Shri Vinodh represented Indian Railways at the Sr.National in 56kg category and won the Gold Medal.

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 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. Timely implementation of suggested improvements has helped in all round improvements.

9. Provision of Staff Quarters

3. 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	2007-2008		2008-2009			No.of quarters		2007-2008		2008-2009		No. of quarters
Total No. of of Qtrs.	No. of units	Approximate cost (Rs. in lakhs)	No. of units	Approximate cost (Rs. in lakhs)	under various stages of construction as on 31st March 2009	No. of units	Approximate cost (Rs. in lakhs)	No. of units	Approximate cost (Rs. in lakhs)	under various stages of Construction as on 31st March 2009	quarters provided upto 31st March, 2009, including quarters invalid in schemes, new lines- doubling, etc;		
1.	Type I	54	189.60	48	67.50	197	Nil	Nil	Nil	Nil	18	Type I : 19016	
2.	Type II	227	1175.72	88	547.00	178	Nil	Nil	6	58.6	51	Type II : 8576	
3.	Type III	125	634.33	74	476.86	18	Nil	Nil	6	58.6	43	Type III : 2718	
4.	Type IV	74	644.24	28	269.00	5	Nil	Nil	Nil	Nil	24	Type IV : 1456	
5.	Type IV (Special)	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	
6.	Type V	16	307.43	20	744.00	35	Nil	Nil	2	59.93	10	Type V : 454	
7.	Type V Officers Quarters	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	
8.	Barracks	0	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	

(ii) Improvements to old type quarters have been carried out during the year 2008-2009 at an estimated cost of Rs. 505.03 lakhs.

(iii) The position regarding quarters for Class III and Class IV as indicated below.—

Sl. No.	Category	No. of staff Qrs. as on 31st March 2008		No. of Staff Quarters available as on 31st March 2008	
		Essential	Non-Essential		
1.	Class III	4,376	5,953	Type I	— 18,751
				Type II	— 8,764
				Type III	— 2,788
				Type IV	— 1,470
				Type V and above	— 422
2.	Class IV	988	5,032		
	Total	5,364	10,985		32,195

10. Additional information of staff strength required to be incorporated vide Board's letter No. 86/Stat./1/5 dated 5th June 1986 is given as under :—

	Group ' C '	Group ' D '		Group ' C '	Group ' D '
1. Signal & Telecommunication Department			(c) Construction		
(i) Signal	2,601	650	(i) Railway Electrification	118	22
(ii) Tele-communication	947	253	(ii) Others	86	99
(iii) Microwave	167	30			
2. Civil Engineering Department			4. Commercial		
(i) Civil Engineering Permanent Way	10,280	6,775	(i) Commercial Clerks	2,769	118
(ii) Civil Engineering Works	1,390	2,117	(ii) Ticket Checking Staff	3,312	..
(iii) Civil Engineering Bridges	283	253	(iii) Catering Staff	4	..
(iv) Civil Engineering Workshop	1,111	83			
3. Electrical Department			5. Operating		
(a) Workshop & production Units			(i) Train Clerks	429	4,786
(i) EMUs	1,585	135	(ii) Guards	1,295	..
(ii) Others	1,575	538	(iii) Traffic Signallers	..	..
(iii) Electric Loco	..	..	(iv) Shunting Staff	..	..
			(v) Yard Staff	..	..
			(vi) Others	..	..
(b) Open Line			6. Mechanical		
(i) Electrical Loco Shed	1,272	293	Workshops & Production Shops		
(ii) EMU Shed	..	..	(i) Steam Locos	9	..
(iii) Rolling Stock Operation	..	..	(ii) Diesel Locos	336	..
(iv) Traction Distribution	1,080	787	(iii) Carriage & Wagon	105	..
(v) General Services	2,835	1,760	(iv) AC Locos	31	..
			(v) Other activities	223	30



XIII. AMENITIES FOR PASSENGERS

1. Monthwise Augmentation with Notification details

AUGMENTATION OF TRAINS FOR THE YEAR 2008-2009										
Sl.	Train No.	From	To	Area	Laod before augmentation	Laod after augmentation	Augmented by	No. of coaches augmented	Additional capacity generated	With effect from
1	6713/6714 Exp.	MS	RMM	TN	16	19	ACCN-2 GSCN-1	3	128/72	01/04/04.08
2	2661/2662 Pothigai Exp.	MS	SEN	TN	16	19	ACCN-2 GSCN-1	3	128/72	02/03.04.08
3	6127/6128 Guruvayur Ex.	MS	Guruvayur	TN	16	23	GSCN-4 GSCZ-2 GS-1	7	288/216/90	01.04.08
4	2685/2686 Exp.	MAS	MAQ	TN	19	21	FACCN-1 GSCN-1	2	20/72	07/08.05.08
5	2075/2076 Exp.	ERS	TVC	KL	11	13	GSCZ-2	2	216	20/21.05.08
6	361/366 Passr.	QLN	TVC	KL	14	15	GS-1	1	90	
7	2639/2640 Brindhavan Exp.	MAS	SBC	TN	23	24	GS-1	1	90	24.07.08
8	6609/6610 Exp.	NCJ	CBE	TN	12	14	GSCN-2	2	144	28/29.07.08
9	2693/2694 Pearl City Exp.	MS	TN	TN	19	20	FC-1	1	26	22/23.09.08
10	6125/6126 Weekly Exp.	MS	Jodhpur	TN	22	23	GSCN-1	1	72	04/06.10.08
11	6309/6310 Bi-Weekly Exp.	ERS	Patna	KL	21	23	GSCN-2	2	144	06/09.10.08
12	725/724 Pass.	TN	TCN	TN	5	7	GS-1 SLR-1	2	90/40	10.100.08
13	6343/6344 Amrithan Exp.	TVC	PGTN	KL	13	14	GS-1	1	90	30.10.09
14	6331/6332 Weekly Exp.	Chatrapati Shivaji Exp.	TVC	KL	17	18	ACCN-1	1	64	08/10.11.08

2. Drinking Water Arrangements

Supply of drinking water was ensured at all the Stations, water cooler where piped water supply was available.

Sl. No.	Divisions	Name of work	Estimate cost (Rs. in lakhs)
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1. CHENNAI DIVISION

(A) Works Completed

(i) Works costing more than Rs. 5 lakhs :—

1. MAS	1. Tiruvotiyur : WCN, TVT, KOKG & KAVM drinking water facilities and pipe line work.	28.04
2. SA	1. TUP-Improvements to road surface and watering arrangements facilities at goods shed.	50.00
	2. TUP-Construction of OHT 45000 litres capacity including pipe line arrangements from well to good shed area.	45.00
3. PGT	1. MAQ-Provision of RCC OHT	42.31
	2. MAQ-Augmentation of water supply.	5.04
4. TVC	1. TVC Station : Replacement of circular PVC tanks by GRP panelled tanks in station building.	37.25
	2. ERS Sub-division-Improvements to water supply arrangements.	33.00
	3. ERS-Supply of drinking water.	23.27
5. TPJ	Nil	
6. MDU	Nil	
7. CN/MS	Nil	
8. MTP	Nil	

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

1. MAS	1. Arakkonam-Puttur section : Provision of water to platform water taps.	2.50
	2. BQI-Provision of GLR including Treatment plant.	3.94
2. SA	1. MYN, PGN & KRR-MYN, PGN-Provision of watering arrangements to Staff Qrs. and station building KRR-Provision of pipe line, sintex OHT over rail staging and electrical pump and renewal of corroded pipe line to staff quarters and station.	4.99
	2. PTJ-Repairs to drinking water pipe line in porter line and provision water pipe upstairs of Golf Link area.	4.70
	3. SUU-Provision of OH tank 5000 lit. capacity.	3.94
3. PGT	Nil	
4. TVC	Nil	
5. TPJ	Nil	
6. MDU	Nil	
7. CN/MS	Nil	
8. MTP	Nil	

Sl. No.	Station/ Sections	Name of work	Estimate cost (Rs. in lakhs)
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(B) Works in Progress

(i) Works costing more than Rs. 5 lakhs :—

1. MAS	1. Perambur : Repairs to water supply arrangements in PT Colony.	37.00
	2. Ayanavaram : Repairs to existing damaged corroded water line.	49.06
2. SA	1. PTJ : Provision of individual storage water tank at staff quarters (400 Nos.) and argumentation of water supply by drilling three more bore wells and pipe line arrangements.	50.00
	2. PTJ-Construction of OHT 90000 ltrs. capacity and replacement of pipeline grid at 20 block area.	50.00
	3. SA, SAMT, ED, IGU, PLMD & CBF-Provisioin of drikng water facilities and toilets at goods sheds.	50.00
3. PGT	Nil	
4. TVC	Nil	
	1. Kallukuzhi colony-Replacement of corroded pipe lines.	41.00
	2. GOC-Ponmalai-Replacement of pipelines in colony to ensure uniform distribution of water supply, 'C' type 1300 & 'F' type 500 (id : 49505-06).	64.00
	3. NGT : NGT & NCR Augmentation of water supply at NGT, NCR.	15.00
5. TPJ	4. TPJ Colony-Replacement of damaged and heavily corroded CI tank and water pipe line at Kallukuzhi.	30.00
6. MDU	5. TPJ-KG-RPSF colony construction of 2.25 KL RCC over head tank in lieu of corroded MS overhead tank.	29.00
	6. Tenkasi section : Construction of OHT 90,000 litres. capacity to augment water supply.	40.63
7. CN/MS	Nil	
8. MTP	Nil	

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

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

Taps/Handpumps/Water huts provided

Division	Taps available during 2006-07	Taps available during 2007-08	Taps available during 2008-09	Provided during the year 2008-09
MAS	2,014	2,068	2,005	- 63
SA	518	562	554	- 8
PGT	749	808	789	- 19
TVC	1,185	1,176	1,206	30
TPJ	1,055	1,017	1,139	122
MDU	1,164	1,336	1,361	25
Total	6,685	6,967	7,054	87

Water Coolers Provided

Division	Taps available during 2006-07	Taps available during 2007-08	Taps available during 2008-09	Provided during the year 2008-09
MAS	99	122	131	9
SA	45	63	27	-36
PGT	34	53	48	-5
TVC	49	49	47	-2
TPJ	33	52	30	-22
MDU	49	73	49	-24
Total	309	412	332	-80

3. Passenger Amenity Works

1. 46 new Passenger Amenity works costing below Rs. 2.5 crores each at a total cost of Rs. 24.24 crores have been sanctioned for the year 2008-09 and 291 Passenger Amenity Works at a total cost of Rs. 131.26 crores are in progress.
2. 2 New Passenger Amenity Works costing above Rs. 2.5 crores each at a total cost of Rs. 9.11 crores have been sanctioned for the year 2008-09 and 6 passenger Amenity Works at a total cost of Rs. 24.34 crores are in progress.
3. Totally 345 Passenger Amenity works at a cost of Rs. 188.95 crores for the year 2008-09, out of which 128 works at a cost of Rs. 60.59 crores were completed.

4. Departmental Catering at stations :

Departmental Vegetarian Refreshment Rooms and Restaurants are functioning at the following stations under the control of IRCTC :—

1. Chennai Central
2. Jolarpettai
3. Arrakkonam

5. Contract Catering :—

Mobile Catering units : Contractor operated mobile catering units under the control of IRCTC.

1. 2431/2432 TVC-NZM Rajdhani Exp.	Bi-weekly
2. 2433/2434 MAS-NZM Rajdhani Exp	Bi-weekly
3. 2007/2008 MAS-MYS Shatabdi Exp.	6 days in a week
4. 2077/2078 MS-BZA Jan Shatabdi Exp	Except Tuesday
5. 2083/2084 TJ-CBE Jan Shatabdi	Except Tuesday
6. 2075/2076 ERS-TVC Jan Shatabdi	Daily
7. 2675/2676 MAS-CBE Kovai Exp.	Daily
8. 2677/2678 CBE-SBC Intercity Exp.	Weekly
9. 6341/6342 ERS-TVC Exp.	Daily
10. 6345/6436 Netharavathi Exp.	Daily
11. 2607/2608 MAS-SBC Lalgabab Exp.	Daily
12. 2617/2618 ERS-NZM Mangala Exp.	Daily
13. 6339/6340 NCJ-CSTM Exp.	4 days in a week
14. 6323/6324 TVC-HWH Exp.	Bi-weekly
15. 6337/6338 ERS-QKHA Exp.	Bi-weekly
16. 6327/6328 BSP-TVC Exp.	Bi-weekly
17. 6309/6310 ERS/PNBE Exp.	Weekly
18. 6331/6332 TVC-CSTM Exp.	Weekly
19. 6335/6336 NCJ-GIM Exp.	Weekly
20. 2643/2644 TVC-NZM Exp.	Weekly
21. 6325/6326 INDB-TVC Ahilyanagari Exp.	Weekly
22. 6023/6024 MAS-SBC Exp.	Daily
23. 6009/6010 MAS-CSTM Exp.	Daily
24. 6011/6012 MAS-DR Exp.	Daily
25. 6317/6318 CAPE-JAT Exp.	Weekly
26. 6355/6356 CAPE-HWH Exp.	Weekly
27. 6351/6352 NCJ-TPTY Exp.	Bi-weekly
28. 6353/6354 TPTY-CSTM Exp.	Bi-weekly
29. 2663/2664 TPJ-HWH Exp.	Bi-weekly
30. 2641/2642 NZM-CAPE Thirukkural Exp.	Weekly
31. 6127/6128 MS-GUV Exp.	Daily
32. 2679/2680 CBE-MAS Intercity Exp.	Daily
33. 2687/2688 MAS-DDN Exp.	Weekly
34. 6311/6312 TVC-JU Exp.	Daily
35. 2651/2652 MDU-NZM Sampark Kranti Exp.	Bi-weekly
36. 2653/2654 Kochuvelli-NZM	Weekly
37. 2621/2622 Tamil Nadu Exp.	Daily
38. 2625/2626 Kerala Exp.	Daily
39. 6333/6334 HAPA Exp.	Weekly
40. 2615/2616 MAS-NDLS Grand Trunk Express.	Daily
41. 2639-2640 MAS-SBC Brindavan Exp.	Daily
42. 2605/2606 MS-TPJ Pallavan Exp.	Daily
43. 6349-6350 TVC-MAQ Parasuram Exp.	Daily
44. 6301-6302 TVC-SRR Venad Exp.	Daily
45. 6303/6304 TVC-ERS Vanchinad Exp.	Daily
46. 2635/2636 MS-MDU Vaigai Exp.	Daily
47. 2669-2670 MAS-CHAPRA Exp.	Weekly

FOOD PLAZAS : Food Plazas are functioning at the following stations in Southern Railway are as indicated below under the control of IRCTC :—

1. Chennai Central	8. Chennai Beach
2. Chennai Egmore	9. Trichur
3. Madurai	10. Chennai Park
4. Ernakulam North	11. Tiruvananthapuram
5. Ernakulam Jn.	12. Coimbatore
6. Tiruchchirappalli	13. Katpadi
7. Shoranur	

Contract operated catering units—Static at D, E, F category stations under the control of Railways.

Division wise Vegetarian/Non Vegetarian Refreshment Rooms run by contractors are given below :

—	TPJ	MDU	TVC	PGT	MAS	SA	Total
VRR *	1	0	—	—	—	—	1
NVLR	1	—	—	—	—	—	1
VLRR	1	5	3	—	—	—	9
NVRR	0	—	—	—	—	—	0
Stalls	24	36	24	25	4	6	119
Total	27	41	27	25	4	6	130

* All VRRs were converted as Cell Kitchen.

Details of A, B, C stalls under the control of IRCTC :—

Sl. No.	Type of units	Number of units under private licensee	Number of units run departmentally by IRCTC	Total Number of units	
1	Mobile units				
	Pantry cars	47	—	47	—
	TSV	22	—	22	—
	Other major units				
	RRs in 'A' stations	40	3	43	functioning with aux units
2	Food plazas	13	—	13	
	Coffee plaza	1	—	1	—
	QSFK	1	—	1	—
	GMUs				
	RRs in 'B' stations.	3	—	3	functioning with aux units
	Stalls	85	—	85	
	Stalls & trolleys	152	—	152	—
	SMUs				
	stalls & trolleys	35	—	35	—
3	Small catering units at A,B,C				
4	Small catering units at D,E,F				
5	Milk stalls/ Parlours	36	—	36	—
6	AVM				
	AVM DKs	143	—	143	—
	AVM stand alone	19	—	19	—
7	Exclusive medicine shop				
8	Book stall	62	—	62	—
9	Book stall cum chemist corner				
10	Misc stall				
11	Misc stall cum chemist corner				
12	Handloom/ Handicraft stall				
13	Any other stall	31	—	31	HPMC
14	Total	685	3	688	

Licence fee realized from the licensees :

Type of unit	2006-07 (Rs. In lakhs)	2007-08 (Rs. In lakhs)	2008-09 (Rs. In lakhs)
Mobile units	—	—	—
Static unit	129.23	320.17	100.40*
Railway's share from IRCTC	214.06	443.73	471.54

* Due to up gradation of category of stations, subsequent to handing over of stalls to IRCTC by Divisions.

INDIAN RAILWAY CATERING & TOURISM CORPORATION (IRCTC)

This corporation was formed to streamline the catering activities on Indian Railways and to bring it under one umbrella. Already catering on trains and stalls at A,B,C category of stations had been taken over by the IRCTC. IRCTC has been entrusted with the responsibility of providing services through Food Plazas, Food court, Fast Food Units etc., at stations. At present, IRCTC is managing 13 food plazas at various stations over Southern Railway and all the pantry cars (Licensee operated).

SAILENT FEATURES/IMPROVEMENTS:

Food Plaza : Food plaza's have already been provided at 13 stations. Proposal to extend these facilities to other 32 stations is under process. Different types of food items like Chinese cuisine, French and other European confectionaries, Indian Sweets and savorys are being provided to our esteemed customers through these food plazas.

Stalls at A,B,C stations : In terms of the existing policy guidelines allotment of catering stalls at A,B,C category stations is within purview of IRCTC. IRCTC has proposed to allot catering units at station falling within the said category. 66 stalls have been allotted under 25% SMU for reserved category.

Stalls at D,E,F stations: According to Revised Catering policy 2005, award of catering/vending units at D,E,F category stations has to be made by the Railways. The Railway has allotted 15 stalls at D, E, F category stations and 24 curio stalls/Misc.multipurpose stalls at A, B category stations during 2008-09.

CELL KITCHEN : 18 units are sanctioned by Southern Railway. AJJ was opened on 9-2-09. 17 cell kitchens IRCTC are under process.

6 Details of Amenities provided during the the Year 2008-09

Sl. No.	Description of Amenity	Unit	Amenities MAS Divn.		Amenities SA Divn.		Amenities PGT Divn.		Amenities TVC Divn.		Amenities TPJ Divn.		Amenities MDU Divn.		Amenities CNMS		Total Expenditure in thousands of Rupees
			Provided during the year 2008-09	Expenditure (in thousands of Rs.)	Provided during the year 2008-09	Expenditure in thousands of Rs.	Provided during the year 2008-09	Expenditure in thousands of Rs.	Provided during the year 2008-09	Expenditure in thousands of Rs.	Provided during the year 2008-09	Expenditure in thousands of Rs.	Provided during the year 2008-09	Expenditure in thousands of Rs.	Provided during the year 2008-09	Expenditure in thousands of Rs.	
1	Waiting hall	Sq. m.	Nil	Nil	230	4,000	Nil	Nil	56	840	Nil	Nil	545	9,810	296.305	1926	16,576.00
2	Seating arrangements	Nos.	850	1,150	230	3,450	60	120	650	440	Nil	Nil	117	8424	439.00	872	6,216.24
3	Covering platforms	Sq. m.	480	5,000	1,180	5,800	1,531	1,022	400	1600	Nil	Nil	5658.55	36007.8	2424	12,681	62,110.80
4	Drinking water arrangements																
	1. Hand pums Nos.	..	Nil	Nil	Nil	Nil	Nil	Nil	..	..	Nil	Nil	Nil	Nil	1.00	10	10.00
	2. Taps Nos.	..	34	380	Nil	Nil	24	94	..	..	25	1,125	56	74.65	35.00	290	1,963.65
5	Foot over bridge	Nos.	1601	1,300	Nil	Nil	2	8,200	..	..	Nil	Nil	Nil	Nil	2.00	5900	15,400.00
6	Waiting rooms	Sq. m.	Nil	Nil	Nil	Nil	Nil	Nil	156	..	Nil	Nil	123.5	2285	Nil	Nil	2285.00
7	Suitable platform including raising sq.m.	Sq. m.	7,000	6,800	1,620	9,200	3,024	5,704	4,800	6,308	9,204	20,135	4,200	15,246	41,887.50	12415	756,808.00
8	Booking windows-cum-reservation counter.	Nos.	22	9,666	Nil	Nil	..	..	..	..	Nil	Nil	4	480	22	79	10,225.00
9	Sanitised latrines	Nos.	6	600	20	2,500	1	400	..	..	Nil	Nil	Nil	Nil	12	300	3,800.00
10	Waiting-cum-booking office	Nos.	Nil	Nil	Nil	Nil	..	..	..	..	Nil	Nil	Nil	Nil	11	250	250.00
11	Retiring rooms	Nos.	6	2,500	Nil	Nil	..	..	..	..	Nil	Nil	Nil	Nil	Nil	Nil	2,500.00
12	Enquiry counters	Nos.	Nil	Nil	Nil	Nil	..	..	..	..	Nil	Nil	1	180	Nil	Nil	180.00

7 Passenger Amenity works in progress During 2008-09

Sl. No.	Name of Work	Cost in Lakhs
1	CALICUT—Development as model station on passenger care	300.00
2	BASIN BRIDGE—Augmentation of water supply arrangement by installation of recycling plant & electronic monitoring system.	350.00
3	AMBUR—Jolarpettai—Upgradation as model stations	355.00
4	COIMBATORE—2nd subway from main entry side connecting platforms 1 to 4	375.11
5	PALGHAT—New booking office	394.17
6	NAGERCOIL Jn., Alleppey, Trichur, Ernakulam Jn. & Ernakulam Town—Upgradation as model stations	384.00
7	MADURAI Jn.—Escalators at platform Nos. 1, 2, 3 & 8 (3 Nos.)	527.30
8	AMBUR—Extension of platform Nos. 2 & 3 for 3 coaches length from Rail Level to High Level, raising of platform level from medium level to high level and paving of surface. (id : 1023/05-06)	29.00
9	ARAKKONAM—JOLARPETTAI SEC.—Extension of FOB on south side of WJR station and extension of FOB at north side colony at Katpadi Junction. (id : 1021/05-06), CE/OL.	45.00
10	ARAKKONAM & KATPADI :— Provision of coach indication boards (id : 1259/06-07), OL/S & T	40.00
11	BASIN BRIDGE :—Provision of PF shelter IRS type 2 X 32 m on PF 1, 3 X 32 m on PF No. 4 & 5 and provision of benches (id : 943/03-04) CE/OL.	29.50
12	CHENGALPET—Replacement of the existing High level tank (MS tank over rail staging size 8'0" X 4'0") with new steel Tank of 1 laksh lit. (id : 1025/05-06), CE/OL.	8.25
13	CHENNAI-ARAKKONAM SEC. :—Provision of F.O.B. at Annanur (halt station) (OT 2004-05)	26.78
14	CHENNAI-ARAKKONAM SEC. :—Provision of F.O.B. at Egattur (halt station) (OT 2004-05) CE/OL	26.78
15	CHENNAI-GUDUR SEC. :—Ponneri and Sullurpeta-Provision of new Steel Tank-2 Nos. with 50,000 litres capacity each (id : 1046/05-06), CE/OL.	21.25
16	CHENNAI-GUDUR SEC. :—Provision of IRS type Platform shelter at Attipattu	10.50
17	CHENNAI-GUMMIDIPUNDI SEC. : Provision of F.O.B. at Kathivakkom station.(OT 2004-05) CE/OL	26.78
18	CHENNAI-GUMMIDIPUNDI SEC. : Provision of F.O.B. at Nandiyambakkam (halt) station.(OT 2004-05) CE/OL	26.78
19	CHENNAI CENTRAL : Laying of CC apron on PF NO. 1, 2A, 3, 4 & 5, CE/OL	29.13
20	CHENNAI CENTRAL : Proposed high pressure jet cleaning plant at platforms. (id: 1030/05-06), CE/OL	25.60
21	CHENNAI CENTRAL : Laying of CC apron on PF No. 6, 7, 8, & 11. CE/OL	27.60
22	CHENNAI CENTRAL : Procurement and commission of Remote Surveillance System, (id: OT 2 / 06 - 07, CSTE)	45.00
23	CHENNAI DIVISION—Elimination of deficiencies in minimum essential passenger amenities at various stations (Phase-II) (id: 520 / PB 04-05, CE/OL)	214.00
24	CHENNAI DIVISION—Repl. of air conditioning plant(id: 609 / PB 06-07, CEE)	232.00
25	CHENNAI DIVN.:—Improvement to lighting arrangements at TBM, AJJ, JTJ, WJR, KPD, TRL, SPE & TRT (id: 1266 / 06-07), CE/OL	49.59
26	CHENNAI DIVN.:—Provision of designer water huts at MS, TBM, CGL, PUT, NYP, SPE, AJJ, KPD, AB and JTJ. (id:1267 / 06-07), CE/OL	48.00
27	CHENNAI EGMORE :—Provision of new scenic lift.. (id: 1035/05-06), CEE	20.15
28	CHENNAI PARK STATION :—Provision of F.O.B. (id: 1270 /06-07), CE/OL	49.90
29	EKAMBARAKUPPAM - Provision of high level platform on downline side and extension of platform on upline side and provision of PF shelter on down line PF (id:950/03-04) CE/OL	20.00
30	GUINDY - Extension of PF to accommodate 24 coaches (id: OT 4 / 06 - 07, CE /OL)	49.95
31	GUMMIDIPUNDI - GUDUR SEC. : Provn. of FOB @ Akkampak halt stn.(OT 2004-05) CE/OL	26.78
32	GUMMIDIPUNDI : Extension of platform to accommodate 24 coaches at PF Nos 1 & 2. (id: 1058 02-03), CE/OL	25.00
33	JOLARPETTAI - Extension of platform No. 1, 2 & 3 to hold 24 coaches. (id: 1038/05-06), CE/OL	29.90
34	JOLARPETTAI - Improvements to circulating area and beautification work including land scaping. (id: 1271/06-07), CE/OL	35.00
35	KATPADI - Platform Shelter at island platform 2 & 3 at JTJ end and paving of platform by vacuum dewatering (id: 1272 / 06-07), CE/OL.	32.00
36	KATPADI: Provision of desirable amenities , Train indicator board (LED), Touch screen and NTES, (id: 1040/05-06), CSTE.	29.90

Sl. No.	Name of Work	Cost in Lakhs
37	KORATTUR :—Extension of F.O.B. across quadruple lines. (id: 1067/02-03), CE/OL	15.00
38	MAMBALAM – Improvement as model station (id: 1098 / LAW 01 -02, CE/OL)	61.00
39	MAMBALAM :—Platform shelter on BG/MG platform for a length of 64 m (with modern light roofing). (id: 1209/99-00) CE/OL.	10.00
40	MELMARUVATHUR :—Improvements to circulating area and provision of waiting hall / Dormitory with furniture. (id: 1274 /06-07), CE/OL.	48.00
41	MAMBALAM—TAMBARAM :—GPS based announcement system(id:1029 /2004-05),CCM/PS	29.50
42	NEMILICHERY— New train halt – Pro. constn of high level PF to cater 12 car units including station building, (id: 1045/05-06), CE/OL	29.90
43	PULIKULAM—Proposed new Train halt between PON-APB station. (id: 1049/05-06), CE/OL	28.00
44	PUTLUR & SEVAPET ROAD - Provision of PF shelter 1x32m on up and down platforms (id:955/03-04) CE/OL	29.50
45	TIRUTTANI :—Provision of desirable amenities , Waiting room , Cloak room, Enquiry and computer based announcement system & Train arrival and departure . (id: 1052/05-06), CE/OL.	29.99
46	VEPPAMPATTU & TIRUNINRAVUR—Provision of PF shelter 1x32m on up and down platforms (id:962/03-04) CE/OL	29.50
47	WIMCO NAGAR—Raising of platform surfaces, provision of pale fencing and drinking water facilities (id:964/03-04) CE/OL.	25.00
48	CHENGALPATTU—Expansion of booking office and new PRS building. (id : 1898 / LAW 07-08) CE/OL	48.00
49	CHENNAI-GUDUR Section—Raising and paving of PF 4 & 5 ,6 & 7 at BBQ and provision of shelter and paving of up and down PFs at VOC nagar (id : 1899 / LAW 07-08) CE/OL.	48.00
50	CHENNAI BEACH—Improvements to circulating area and concourse. (id : 1900 / LAW 07-08) CE/OL	45.00
51	CHENNAI BEACH—Improvements to PF surfaces on PF No.5 & 6. (id : 1901 / LAW 07-08) CE/OL	45.00
52	CHENNAI DIVN—Rehabilitation of lifts available at MRTS sections - 8 Nos (id : 1908 / LAW 07-08) CEE	49.00
53	CHENNAI MRTS SECTION—Improvements to water pipelines, PF granite benches and circulating area at MPKT, MCPT, MCPK, MTCM & MLH & MTMY (id : 1909 / LAW 07-08) CE/OL.	47.00
54	GUMMIDIPUNDI—Extension of FOB (id : 1910 / LAW 07-08) CE/OL	38.00
55	KATPADI :—Provision of PF shelter on island PF 4 & 5 (3x16 m) 10 mtr wide - 2 Nos. (id : 1911 / LAW 07-08) CE/OL	45.00
56	MUKUNDARAYAPURAM—Provision of PF shelter on UP loop line and DOWN loop line (id : 1913 / LAW 07-08) CE/OL	40.00
57	PATTARAVAKKAM—Widening of platform on Dn slow line. (id : 1914 / LAW 07-08) CE/OL	49.71
58	PERAMBUR :—Provision of Cell phone / Laptop charging facilities in AC coaches. (id : 1915 / LAW 07-08) CEE	49.75
59	PERAMBUR :—Provision of Cell phone/ Laptop charging facilities in non AC TL coaches. (id : 1916 / LAW 07-08) CEE	49.60
60	KARUR :—Retiring room, Provision of PF shelter for 32 m each on PF 1 & 2 (id:975/03-04)CE/OL	21.33
61	TIRUPPUR and COIMBATORE—Provision of coach guidance on 2 platform each. (id: 1301 / 06-07), OL/S&T	49.99
62	UTTUKULI : HL PF for Dn line side 250m and an FOB with electrical and communication installations.(id:995/03-04) CE/OL.	28.50
63	PODANUR Jn—New booking complex with PRS and parcel office (id : 1935 / LAW 07-08) CE/OL	49.90
64	PODANUR Jn—Platform resurfacing at Podanur Jn (id : 1936 / LAW 07-08) CE/OL	36.00
65	PODANUR Jn—Provision of PF shelter for 4 bays' length each on PF1 (id : 1937 / LAW 07-08) CE/OL	44.00
66	KARUR—PF shelter- 4 bays' length on PF No.2 (id : 1923 / LAW 07-08) CE/OL	49.00
67	MAGUDAMCHAVADI & VEERAPANDI ROAD—Provision of PF Shelter for 2 bays' length each on PF-1 (id : 1924 / LAW 07-08) CE/OL.	42.00
68	SAMALPATTI & DASAMPATTI—Provision of PF Shelter for 2 bays' length each on PF-1 (id : 1939/LAW 07-08) CE/OL	45.00
69	UTTUKULI, SOMANUR & PILAMEDU—Provision of PF shelter for one bay's length each on PF2 at Uttukuli, PF 1 at SNO and on both PFs 1 & 2 at Pilamedu. (id : 1943 / LAW 07-08) CE/OL.	49.00
70	METTUPALAIYAM—Improvements to approach road, circulating area, Booking office, Ladies waiting hall (id : 1926 / LAW 07-08) CE/OL.	33.00
71	CALICUT—Over head tank 90000 litres capacity and provision of one open well 6.1 m dia 9.00 m deep. (id:1281/06-07), CE/OL.	30.00
72	CALICUT & CANNANORE: Augmentation of illumination level provision of metal halide lamps. (id: 1054/05-06), CEE	14.60

Sl. No.	Name of Work	Cost in Lakhs
73	CANNANORE—Construction of second entry booking office and shifting of PRS centre (id: 1284 / 06-07), CE/OL	49.99
74	CANNANORE :—Shifting of present parcel office developing circulating area road ramp etc. (id: 1059/05-06), CE/OL	29.00
75	MANGALORE—Provision of additional retiring rooms (5 Double Bed) and upper class waiting room. (id: 1291/ 06-07), CE/OL.	49.99
76	MANGALORE and KANKANADI—Augmentation of water supply in carriage watering area including over head tank and water treatment plant. (id: 1292 / 06-07), CE/OL.	49.00
77	MORAPPUR and TIRUR :—Extension of platform to hold 20 coaches and platform shelter for 5 bays' length and VIP room. (id:979/03-04) CE/OL.	26.59
78	PALGHAT—Extension of platforms to accommodate 24-coach trains (4 stations) (id: 611 / PB 06-07, CE/OL) ..	82.76
79	PALGHAT DIVISION—Extension of platform to hold 24 bogies (3 stations) (id: 431 / PB 02-03, CE/OL) ..	70.00
80	PALGHAT DN.—Coach guidance system at MAQ, CAN & SA. (id: 1064/05-06), CSTE ..	43.50
81	PALGHAT DN.—Proposed extension of PF to hold 24 bogies at KNKD and VLI (id: 1295 / 06-07), CE/OL ..	45.00
82	PALGHAT JN.—Beautification of station by providing metal halide lighting, seating arrangement in platform and concourse and garden. (id: 1296 / 06-07), CE/OL.	49.99
83	SHORANUR Jn. :—Provision of carriage watering facilities for PF No.7 (24 coaches) (id:990/03-04) ,CE/OL	15.00
84	BADAGARA—Provision of (a) 48 m shelter at CAN end of PF-2, (b) provision of one bay's length each on both PFs near FOB landing (id : 1918 / LAW 07-08) CE/OL.	32.00
85	ELIMALA—Provision of PF shelter for 4 bays' length on PF-2 (id : 1919 / LAW 07-08) CE/OL ..	44.00
86	FEROK—Provision of PF shelter for 4 bays' length on PF-2 (id : 1920 / LAW 07-08) CE/OL ..	44.00
87	KANHANGAD—Provision of PF shelter for 4 bays' length on PF-2 (id : 1921 / LAW 07-08) CE/OL ..	44.00
88	KANNAPURAM—Provision of PF shelter for 6 bays' length on PF-2 (id : 1922 / LAW 07-08) CE/OL ..	45.00
89	MAHE & PAYYOLI—Provision of PF shelter for 4 bays' length on PF-2 at Mahe and PF shelter for 2 bays' length on PF-2 at Payyoli (id : 1925 / LAW 07-08) CE/OL.	40.00
90	NILESHWAR—Provision of PF shelter for 5 bays' length on PF-2 (id : 1927 / LAW 07-08) CE/OL ..	41.00
91	OTTAPPALAM—Provision of PF shelter for 2 bays' length each both ends of PF.2 (id : 1928 / LAW 07-08) CE/OL..	34.00
92	PARAPPANANGADI—New Booking Office with 4 counters for installation of UTS with concourse and one counter for PRS in future. (id : 1929 / LAW 07-08) CE/OL.	33.00
93	PARAPPANANGADI—Provision of PF shelter for 5 bays' length on PF-2 (id : 1930 / LAW 07-08) CE/OL ..	42.00
94	PATTAMBI & PALLIPURAM—Provision of PF shelter for 2 bays' length each on PF-2 (id : 1931 / LAW 07-08) CE/OL	42.00
95	PAYYANGADI—Provision of PF F shelter for 2 bays' length each on both ends of PF 1 & 2 (id : 1932 / LAW 07-08) CE/OL.	44.00
96	PAYYANUR—Provision of PF shelter for 5 bays' length each on PF-2 (id : 1933 / LAW 07-08) CE/OL ..	41.00
97	PAYYANUR—Provision of PF shelter for 5 bays' length on PF-1 (id : 1934 / LAW 07-08) CE/OL..	44.00
98	QUILANDI—Provision of PF shelter for 48m each on CAN end of both platforms (id : 1938 / LAW 07-08) CE/OL ..	48.00
99	TANUR—Provision of PF-Shelter for 2 bays length each on both ends of PF-2 and covering on FOB (id : 1940 / LAW 07-08) CE/OL.	49.00
100	TELLICHERRY—Provision of PF shelter for 5 bays' length on PF-1 (id : 1941 / LAW 07-08) CE/OL ..	49.00
101	UPPALA—Provision of PF shelter for 4 bays' length on PF-2 (id : 1942 / LAW 07-08) CE/OL ..	45.00
102	VALLIKKUNNU & KADALUNDI—Provision of PF shelter for 2 bays' length each on PF-2 (id : 1944 / LAW 07-08) CE/OL	36.00
103	WALAYAR—Provision of PF shelter for one bay's length each on PF2/3 (id : 1945 / LAW 07-08) CE/OL ..	47.00
104	CHENGANNUR :—Re-roofing of station building and provision of VRR.(id:999/03-04)CE/OL ..	19.00
105	CHENGANNUR :—Provision of VIP lounge, upper class waiting room , SMR's room and raising of platform no.2 & 3 (id: 1302/06-07), CE/OL.	49.50
106	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
107	ERNAKULAM Jn.—Shifting of booking office and rebuilding of concourse and architectural improvements. (id: 1304 / 06-07), CE/OL.	47.50
108	ERNAKULAM TOWN and ALWAYE :—Raising of PF No.2 (id: 1305 / 06-07), CE/OL ..	49.50

Sl. No.	Name of Work	Cost in Lakhs
109	NAGERCOIL JUNCTION—Construction of new booking office and raising of platform no.1 (id: 1307 /06-07), CE/OL	49.50
110	TRIVANDRUM DIVISION—Construction of second booking office near parcel office for shifting the existing booking office (id: 1308 /06-07), CE/OL.	49.75
111	TRIVANDRUM DIVISION—Provision of new waiting room at Quilon end and conversion of existing upper-class waiting-room into AC dormitory. (id: 1309 /06-07), CE/OL.	49.50
112	TRIVANDRUM DIVISION—Beautification of 13 model stations including architectural improvements. (id: 1311 / 06-07), CE/OL.	49.00
113	ALLEPPEY—Improvements to surfacing of Platform No. 1 (id : 1946 / LAW 07-08) CE/OL	49.00
114	ALWAYE—Provision of a new Upper class Waiting room and shifting of PRS center. (id : 1947 / LAW 07-08) CE/OL	49.50
115	ANGAMALI for KALADI—Raising of platform no.1 to high level and paving the prime areas of platform no.1 with Kota stone type (id : 1948 / LAW 07-08) CE/OL.	49.00
116	ERNAKULAM TOWN & KAYANKULAM - Model stations - Provision of additional waiting rooms (id : 1950 / LAW 07-08) CE/OL.	49.00
117	KAYANKULAM—Upgradation of amenities as model station (id : 1951 / LAW 07-08) CE/OL	205.00
118	NAGERCOIL JN.—Provision of shelter for a length of 32 m – 4 Nos. – one each end of PF No.1&2 for AC coaches, (id : 1954 / LAW 07-08) CE/OL.	46.50
119	TRICHUR—Provision of second entry for Passengers on goods shed side by providing extension to FOB & Booking counters. (id : 1956 / LAW 07-08) CE/OL.	49.00
120	TRICHUR & NAGERCOIL – Model stations—Provision of additional waiting-rooms (id : 1957 / LAW 07-08) CE/OL ..	49.00
121	TRIVANDRUM DIVISION—Improvements to circulating area lighting at IJK, WKI, CKI, AFK, CGY, HAD, AMPA, SRTL, MVLK, PVU, CRY, KVU, NYY, KZT & VLY stations (id : 1958 / LAW 07-08) CE/OL.	49.00
122	TRIVANDRUM Dn.—Emergency lights for all PF at NCJ, TVC, QLN, KTYM, ERS, ERN, AWY & TCR (id : 1959 / LAW 07-08) CE/OL.	49.00
123	TRIVANDRUM CENTRAL—Replacement of Existing Reservation office in view of structural problems. (id : 1960 / LAW 07-08) CE/OL.	49.00
124	TRIVANDRUM DIVISION—Extension of PF No.1 at AMVA, VRLR, SUCH, THX, NPK, KZTW, SGLM & MP to accommodate the longest stopping trains. (id : 1961 / LAW 07-08) CE/OL.	49.50
125	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 / LAW 07-08) CE/OL.	49.90
126	TRIVANDRUM DIVISION—Extension of platforms to hold 24 bogies (3 stations) (id : 1963 / LAW 07-08) CE/OL ..	200.00
127	TRIVANDRUM DIVISION—Landscaping in front of Model stations at CAPE, VAK, KYJ, CNGR, TRVL, KTYM, ALLP & AWY including water supply arrangements (id : 1964 / LAW 07-08) CE/OL.	49.00
128	TRIVANDRUM DIVISION—Provision of 32m each of platform shelter for AC coaches at 6 locations, viz, KYJ, TRVL, CGY, TRTR (id : 1965 / LAW 07-08) CE/OL.	49.00
129	TRIVANDRUM DIVISION—Provision of recommended level of platform shelter at PASA, NYY, MQO, CHPD (id : 1966 / LAW 07-08) CE/OL.	49.50
130	TRIVANDRUM DIVISION—Provision of passenger enquiry terminals (touch screen) at NNN, AAY, VARD, CHTS, PUK, KLMR & additional terminals at CAPE, NCJ, TVC, ERS, ALLP, KTYM & TCR (id : 1967 / LAW 07-08) OL/S&T.	40.00
131	TRIVANDRUM DIVISION :—Provision of PF shelter for a length of 32 m each for A/C coaches at AFK, CKI, IJK & GUV - (id : 1969 / LAW 07-08) CE/OL.	46.00
132	TRIVANDRUM DIVISION :—Provision of PF shelter for a length of 32m each at VLY, AAY, ERL & NEM (id : 1970 / LAW 07-08) CE/OL.	42.00
133	ARIYALUR—Augmentation of potable water supply by providing one infiltration gallery, renewal of pumping main 150 mm dia for. (id: 1081/05-06), CE/OL.	28.50
134	ARIYALUR :—Raising of PF (island) and alteration to existing station building (id: OT 3 / 06 - 07, CE/OL)	47.42
135	CHIDAMBARAM—Reconstruction of cracked station building(id: 435 / PB 02-03), CE/OL	67.13
136	CHIDAMBARAM :—Remodelling the exg. parcel office and pucca cloak room with furniture. (id: 1156/01-02,)CE/OL	10.00
137	PONDICHERRY :—Improvement as Model Station. (id: 1170/01-02,)CAO/CN/MS	37.29
138	TIRUCHCHIRAPPALLI TOWN – Provision of FOB. (id: 1083/05-06), CE/OL	29.99
139	TIRUVERUMBUR :—Provision of FOB connecting station building and BG platform.(id: 1087/05-06), CE/OL ..	29.50

Sl. No.	Name of Work	Cost in Lakhs
140	VILLUPURAM—Rebuilding of station building, waiting hall, platform shelter & improvements to circulating area (id: 448 / PB 03-04), CAO/CN.	194.94
141	VIRUDHACHALAM—Upgradation and beautification of passenger amenities (id: 1325 /06-07), CE/OL ..	49.90
142	NAGAPATTINAM—Touch and feel concept - Improvements to concourse, station building and circulating area (id : 1971 / LAW 07-08) CE/OL.	44.53
143	PONMALAI :—Touch & feel concept - Reconstruction of cracked station building and laying station approach. (id : 1974 / LAW 07-08) CE/OL.	46.72
144	THANJAVUR—Extension of FOB to PF No.1 (id : 1975 / LAW 07-08) CE/OL ..	40.00
145	THANJAVUR & VILLUPURAM—Upgradation as model stations (id : 1977 / LAW 07-08) CE/OL ..	100.00
146	THANJAVUR Jn—Extension and raising of PF No.1 for 24 coach length. (id : 1978 / LAW 07-08) CE/OL ..	49.77
147	TIRUCHCHIRAPPALLI—Improvements to parcel offices at KMU, PDY, MV & TVR (id : 1979 / LAW 07-08) CE/OL ..	49.64
148	TIRUCHCHIRAPPALLI—Provision of high level island Platform between Road 7 & 8. (id : 1980 / LAW 07-08) CE/OL	45.97
149	TIRUCHIRAPPALLI Division—Provision of Touch Screen and spot your train machines at 10 stations (id : 1981 / LAW 07-08) CSTE.	49.00
150	TIRUCHIRAPPALLI JN—Provision of PF shelter at 6 bays on PF No2 and 3 at GOC end (id : 1983 / LAW 07-08) CE/OL	42.00
151	TIRUCHIRAPPALLI JN—Provision of Platform shelter at PF No. 1A, 2 & 3 (id : 1984 / LAW 07-08) CE/OL ..	42.00
152	VILLUPURAM Jn—Improvements to passenger amenities under touch and feel items (id : 1985 / LAW 07-08) CE/OL	48.76
153	VIRUDHACHALAM Jn - Provision of high level PF for PF No 2 (id : 1986 / LAW 07-08) CE/OL ..	48.34
154	KOVILPATTI :—Remodeling of station building and provision of greeneries in circulating area (id:1328 /06-07), CE/OL..	49.50
155	MADURAI JN.—Remodelling of station building and provision of greeneries in circulating area (id:1329 /06-07), CE/OL	49.95
156	MADURAI DIVN . :—Improvements to Booking offices and enquiry counters at TEN, TN, DG, CVP and VPT. (id:1331 / 06-07), CE/OL.	45.76
157	MADURAI DIVN. :—Provision of standard signages at TEN, TN, DG, VPT CVP and remaining platforms at MDU. (id: 1332 / 06-07), CE/OL.	49.92
158	RAJAPALAYAM—Provision of FOB (id:1333 / 06-07), CE/OL ..	45.00
159	TIRUNELVELI :—Remodeling of station building and provision of greeneries in circulating area (id:1334 / 06-07), CE/OL	49.88
160	TUTICORIN :—Remodeling of station building and provision of greeneries in circulating area (id:1335 / 06-07), CE/OL	49.50
161	VIRUDHUNAGAR—Remodeling of station building and provision of greeneries in circulating area (id:1336 / 06-07), CE/OL	49.75
162	DINDIGUL Jn—Provision of 3 bays platform shelter each on PF No.1 & 2 and 3 & 4 (id : 1987 / LAW 07-08) CE/OL	45.00
163	DINDIGUL Jn—Provision of vacuum dewatered concrete including granite flooring on PF No. 1 & 2 (id : 1988 / LAW 07-08) CE/OL.	45.00
164	DINDIGUL, KOVILPATTI & VIRUDHUNAGAR—Upgradation as model stations (id : 1989 / LAW 07-08) CE/OL ..	150.00
165	DINDIGUL Jn :—Extension of existing FOB No. 1374A (2 x 20.40 m steel) with additional span of 1 x 28.605m at km 454/10-11 (id : 1990 / LAW 07-08) CE/OL.	49.44
166	KOVILPATTI—Provision of vacuum dewatered concrete including granite flooring on PF No. 1. (id : 1993 / LAW 07-08) CE/OL.	35.00
167	MADURAI DIVISION—Extension of Platform to hold 24 bogies at SVPT, SNKL & KDNL and extension of PF to hold 20 bogies at VPJ (id : 1994 / LAW 07-08) CE/OL.	48.00
168	MADURAI Jn—Construction of new Parcel Office complex (id : 1995 / LAW 07-08) CE/OL ..	48.00
169	MADURAI Jn—Provision of 3 bays platform shelter each on PF No. 2 & 3 and 4 & 5 (id : 1996 / LAW 07-08) CE/OL	45.00
170	MADURAI Jn—Provision of vacuum dewatered concrete including granite flooring on PF No.2 & 3. (id : 1997 / LAW 07-08) CE/OL.	45.00
171	MADURAI Jn.—Extension of concourse to accommodate additional passenger amenities (id : 1999 / LAW 07-08) CE/OL	48.00
172	MADURAI Jn.—Proposed passenger amenity works such as waiting hall, spacious concourse, toilet facility in Western entry. (id : 2000 / LAW 07-08) CE/OL.	48.50
173	MADURAI Jn.—Second entry - Remodeling of booking counter, PRS, approach road, etc. (id : 2001 / LAW 07-08) CE/OL	44.00
174	RAMESWARAM Station—Improvements to circulating area by resitting structures, Construction of waiting room, etc. to make it as a model station. (id : 2002 / LAW 07-08) CE/OL.	45.50

Sl. No.	Name of Work	Cost in Lakhs
175	AVADI :—Provision of Automatic Public Announcing System using GPS-cabin control units in 18 EMU rakes to improve amenities to passengers.	44.90
176	CHENNAI - VELACHERY SEC.—Replacement of corroded roofing sheets on high roof of Tiruvallikeni stn.	40.00
177	CHENNAI CENTRAL :—Developing green building concept covering energy conservation aspects - Phase I.	45.00
178	CHENNAI CENTRAL :—Developing green building concept covering civil engineering aspects Phase I.	30.00
179	CHENNAI EGMORE :—Developing green building concept covering energy conservation aspects - Phase I.	45.00
180	CHENNAI EGMORE :—Developing green building concept covering civil engineering aspects Phase I.	30.00
181	CHENNAI CENTRAL—Replacement of broken AC sheet roofing with galvalume sheet and aluminium gutter at platform Nos. 6 & 7.	45.00
182	CHENNAI EGMORE—Replacement of broken AC sheet roofing with galvalume sheet and aluminium gutter at platform Nos. 3 & 4 at TBM end.	45.00
183	CHENNAI BEACH—Provision of PRS building	45.00
184	CHENNAI CENTRAL—Replacement of broken AC sheet roofing with galvalume sheet and aluminium gutter at platform Nos. 4 & 5.	45.00
185	CHENNAI DIVISION—SPE-GPD Section and TRL-AJJ section - Extension of platforms for accomodating 12 Car EMUs.	240.00
186	TAMBARAM—Provision of escalators (2 Nos)	160.00
187	SALEM DIVISION :—Provision of drinking water facilities at Goodsheds of SA, SAMT,ED,IGU, PLMD & CBF	49.50
188	SAMALPATTI—Extension of rail level platform No. 2 for accommodating 24 coaches	40.00
189	COIMBATORE Jn. :—Provision of addl. PF shelters at island PF 3 & 4 for 5 bays	48.34
190	COIMBATORE JN :—Provision of addl. PF shelters at island PF 1 & 2 for 2 bays	38.00
191	COIMBATORE—CC apron on Platform No. 4 (road no. 5)	49.90
192	KARUR—Strengthening of column and beams by epoxy treatment in station building, improvements to approach road, provision of drainage arrangements and construction of boundary wall.	45.60
193	SALEM Jn.—Provision of CC apron on line of platform No.2 for a length of 540 m	60.00
194	COIMBATORE :—Provision of CC apron on line of PF No.4 for a length of 570 m	60.00
195	WALAYAR :—Extension of existing high level platform No.1 as high level for 200m (to hold 18 coaches)...	49.76
196	TIRUR—Provision of platform shelter for 4 bays length on PF No.2/3 (2 each on both ends)	37.16
197	PALLIPURAM :—Provision of Foot over Bridge (22m long x 3 m wide)	49.32
198	NILESWAR :—Provision of Foot over Bridge (22 m long x 3 m wide)	49.32
199	KOZHICKODE—Provision of platform shelter for 4 bays length on platform No.2/3 (2 each on both ends)...	39.83
200	PALGHAT—Provision of CC apron on line of platform No.1 for a length of 618 m	60.00
201	Calicut :—Provision of CC apron on line of PF No.1 for a length of 540 m	60.00
202	ERNAKULAM Jn :—Paving of platform no.2/3 with kota stone or similar flooring.	49.00
203	MAYYANAD—Provision of Foot Over Bridge.	45.00
204	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
205	NANGUNERI & ARALVAYMOLI—Provision of waiting rooms.	49.00
206	TIRUVANANTHAPURAM COACHING DEPOT :—Provision of carriage watering arrangement between Road No. 12 & 13.	36.50
207	TIRUVANANTHAPURAM COACHING DEPOT :—Provision of carriage watering arrangement between Road No. 14 & 15 for platform turn round attension.	26.50
208	TIRUCHCHIRAPPALLI Jn. :—Provision of electronic chart display system	49.99
209	TIRUCHCHIRAPPALLI Jn—Improvement to yard drainage with collection well and pumping arrangements at MDU end. Renewal of carriage side filling hydrants for road No.1, 3, 4 and provision of dedicated water main for station as per works manual.	49.30
210	THANJAVUR—Proposed CC apron at platform No.3	60.00
211	MADURAI Jn :—Construction of Airconditioned passenger waiting hall at PF. 1.	48.00

Sl. No.	Name of Work	Cost in Lakhs
212	MADURAI Jn.—Proposed relocation of Cloak room and information centre to augment additional width of PF1. ..	32.00
213	MADURAI Jn :—Replacement of damaged jackarch roof by RCC roof and remodelling the VRR building. ..	48.00
214	MADURAI Jn.—Reconstruction of RPF escort room and dormitory to augment space for the widening of PF1. ..	49.00
215	KOVILPATTI STATION :—Provision of passenger shelter for 6 bays in PF No.1 and 6 bays in PF No. 2 & 3. ..	43.60
216	TIRUNELVELI Jn :—Provision of passenger shelter for 6 bays in PF No. 2 & 3. ..	46.90
217	TUTICORIN STATION :—Provision of passenger shelter for 6 bays in PF No.2 & 3. ..	43.60
218	RAMESWARAM—Proposed CC apron at platform No.1 ..	60.00
219	TUTICORIN—Proposed CC apron at platform No.1 ..	60.00
Total ..		12968.56

8. Expenditure incurred on Passenger and Other Railway Users' amenities 2008-2009

(Figures in lakhs of Rupees)

1 Details of basic amenities and additional facilities	2 Plan-head Passenger and Other Railway Users Amenities	3 Plan-head Computeri- sation	4 Other Plan heads like New Lines, Doubling etc.	5 Total
A. Basic Amenities—				
1. Proper booking arrangements.. ..	228	0	..	228
2. Waiting Hall	490	0	..	490
3. Benches	197	0	..	197
4. Suitable arrangements for Electric Lighting	156	0	..	156
5. Drinking water supply arrangements at stations	124	0	..	124
5(a) Drinking water supply arrangements in the trains	42	0	..	42
6. Platform with well maintained surface (Rail level platforms at flag stations)	478	0	..	478
7. Latrines	49	0	..	49
8. Shady trees	0	0	..	0
B. Additional facilities—				
1. Urinals	6	0	..	6
2. Platform Covers	939	0	..	939
3. Bath facilities	0	0	..	0
4. Water Coolers	16	0	..	16
5. Foot Over Bridges or Subways	524	0	..	524
6. Washable Aprons	126	0	..	126
7. Retiring Rooms & Rail Yatri Niwas	191	0	..	191
8. Refreshment Rooms, Base kitchens and Trolleys/Stalls for Catering & Vending.	17	0	..	17
9. Improved lighting and fans on platforms	391	0	..	391
10. Enquiry Offices, Train indicator Boards	252	108	..	360
11. Reservation Offices—Computerised Reservation	112	752	..	864
12. Improvements to circulating area	611	0	..	611
13. Car, Tonga, Cycle stands	35	0	..	35
14. C. C., TV	65	0	..	65
15. Cushioning of Second Class Berths	0	0	..	0
16. Renovation/Remodelling of station buildings	1437	0	..	1437
17. Carriage Watering	25	0	..	25
18. Book Stalls	0	0	..	0
19. Raising, lengthening, widening and resurfacing of platforms	1344	0	..	1344
20. Public address system	80	0	..	80
21. Exhibition of Time-Table sheets on Glass Fronted Frames.. ..	0	0	..	0
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.	152	0	..	152
23. Improved latrines	65	0	..	65
24. Miscellaneous improvements to existing amenities, viz., provision of seats, hedges, etc.,	862	42	..	904

Expenditure incurred on Passenger and Other Railway Users' amenities 2008-2009. (Contd.)

Details of basic amenities and additional facilities	(Figures in lakhs of Rupees)			
	Plan-head Passenger and Other Railway Users Amenities	Plan-head Computerisation	Other Plan heads like New Lines, Doubling etc.	Total
C. Other Railway Users' amenities (for Goods sheds and Parcel Offices)—				
1. Arrangements for drinking water including water coolers, water trollies etc.,	17	0	..	17
2. Waiting accommodation	7	0	..	7
3. Refreshment Rooms & Vendors Stalls	0	0	..	0
4. Latrines	0	0	..	0
5. Miscellaneous arrangements like provision of seats, hedges & shady trees	22	0	..	22
6. Lighting arrangements and provision of fans	20	0	..	20
7. Rest shelters for licensed porters	0	0	..	0
Grand Total	9080	902	..	9982

Statement of Actual Expenditure under Amenities for Staff for the year 2008-2009

Sl. No.	Description	(Figures in Thousands of Rupees)		
		Gross	Credit	Net
1	New Hospitals, Dispensaries, additions and improvements to existing ones	1,38,964	54	1,38,910
2	New Schools, additions, alterations, improvements & additions to Existing ones.	2,860	0	2,860
3	New Institutions, rest houses, sports grounds, reading rooms, Improvements & additions to existing ones.	14,919	0	14,919
4	Provision and improvement of health and welfare works & maternity centres.	376	0	376
5	Cooking arrangements for workshops canteens & rest houses for workmen.	1,529	0	1,529
6	Provision and improvements of sanitation, water supply, road lighting and marketing facilities in Railway colonies.	38,380	0	38,380
7	Improvements Alterations to Existing quarters whatever type ..	66,257	0	66,257
8	Others Works	14,033	0	14,033
9	Total Col. 1 to 8 (Staff Amenities)	2,77,318	54	2,77,264
10	Provision for Officers' Quarters	68,086	0	68,086
11	Quarters for Class III Staff	86,442	0	86,442
12	Quarters for Class IV Staff	16,613	1957	14,656
13	Total Col. 10 to 12 (Staff Quarters)	1,71,141	1,957	1,69,184
14	Total Col. 9 +13	4,48,459	2,011	4,46,448
15	Medical Expenses — J 200	10,23,576	0	10,23,576
16	Health and welfare services — J 300	2,23,443	0	2,23,443
17	Education — J 100.. .. .	1,42,837	0	1,42,837
18	Canteen and other staff amenities — J 400	41,827	0	41,827
19	Staff Training — K 500	6,84,325	0	6,84,325
20	Total Col. 15 to 19	21,16,008	0	21,16,008
21	Grand Total Col. 14 + 20	25,64,467	2,011	25,62,456

9. Improvements carried out in the lower class carriages are furnished below :—

80 % of the GS, SLR /SLRD type coaches are provided with Cushioned seats and back rest. Fitment of cushions in remaining lower class coaches is in progress.

10. Passenger Traffic—

	Opened/Closed	
No. of stations open for traffic	Nil	
No. of City Booking Offices	Nil	
No. of Out Agencies	Nil	
No. of City Booking Agencies	Nil	
No. of Street Collection and Delivery services..	Nil	
Stations opened/Closed for Coaching traffic ..	Nil	
During the year 2008-09.		

Train Halts

- (i) Train halts converted in to flag stations .. Nil
- (ii) Stations opened/closed for traffic .. Nil
- (iii) Block stations downgraded into flag/train halts Nil
- (iv) Train halts opened for passenger traffic .. 1
(Ichchipputhur w.e.f. 2-8-08)
- (v) Train halts closed for passenger traffic .. 3
Panchalam-w. e. f. 7-11-08,
Pakkam-w. e. f. 6-11-08,
Tirumani-w. e. f. 6-11-08.
- (vi) Block/flag stations converted into train halt .. Nil

11. Stations opened/Closed for Parcel Traffic during 2008-09

- (a) Station opened for Parcel Traffic Nil
- (b) Station closed for Parcel Traffic Nil

12. Section/Line closed for Passenger traffic—

Section	Division	Date	Closed
Palakkad (PGT)–Pollachi(POY) MG section.	MDU	10-12-2008	All description of traffic on account of BG conversion.
Tirunelveli (TEN)–Tenkasi (TSI) MG section.	MDU	1- 1-2009	All description of traffic on account of BG conversion.

Stations closed on PGT–POY (MG) Section

1. Pollachi	(POY)
2. Annamalai Road	(ANM)
3. Minatchipuram	(MXM)
4. Muthalamada	(MMDA)
5. Kollengode	(KLGD)
6. Vadakannikapuram	(VDK)
7. Pudunagaram	(PDGM)
8. Pallakkad Town	(PGTN)
9. Pallakkad Jn.	(PGT)

Stations closed on TEN–TSI (MG) Section

1. Tirunelveli Jn.	(TEN)
2. Tirunelveli Town	(TYT)
3. Pettai. H.	(PEA)
4. Cheran Mahadevi	(SMD)
5. Karaikkurichchi. (H).	(KARK)
6. Viravanallur	(VVR)
7. Kallidaikurichi	(KIC)
8. Ambasamudram	(ASD)
9. Kizha Ambur. (H).	(KIB)
10. Alwarkurchi. (H).	(AZK)
11. Ravanasamudram	(RVS)
12. Kila Kadaiyam	(KKY)
13. Mettur	(MTE)
14. Pavurchutram	(PCM)
15. Kizhapuliyur	(KYZ)
16. Tenkasi Jn.	(TSI)

13. The converted BG Line opened for Passenger / Goods traffic

Section	Division	Date of opening	Opened for
Karaikkudi (KKDI)–Manamadurai (MNM) BG Section.	MDU	02– 7–2008	Opened for passenger and Goods Traffic The chargeable Distance has been notified.
Tirunelveli (TEN)–Tiruchendur (TCN) BG Section.	MDU	28– 9–2008 29– 9–2008	Opened for passenger Traffic Open for Goods Traffic. The chargeable Distance has been notified.
Katpadi (KPD)–Vellore Contonment (VLR) BG part of VM–KPD Section.	TPJ	10–11–2008	Opened for passenger Traffic The chargeable Distance has been notified.
Tiruvarur (TVR)–Nagapattinam (NGT) BG part of TVR–NCR Section.	TPJ	27– 2–2009 20–11–2008	Opened for passenger Traffic Open for Goods Traffic. The chargeable Distance has been notified.
Mayiladuturai (MV)–Sirkazhi (SY) BG part of CUPJ–MV Section.	TPJ	31– 1–2009	Open for Goods Traffic.

14. Station Opened/Reopened for Goods Traffic During 2008–09

Name of Station	Division	Date of open	Opened for
Korukkupet (KOKG) (BG)	MAS	Extened until further advice	Station serving the port for Iron Ore traffic effective from 31– 3–08.
Royapuram (RPM) (BG)	MAS	Extened until further advice	Station serving the port for Iron Ore traffic effective from 31– 3–08.
Salt Cotaurs (SO) (BG)	MAS	Extened until further advice	Station serving the port for Iron Ore traffic effective from 31– 3–08.
Ramanathapuram (RMD)(BG)	MDU	30– 4–2008	Opened for Wagon Load and Train load for both Inward and Outward in Local and through Booking.
Thalangai (TUG) (BG)	MAS	22– 5–2008	Opened for Wagon Load and Train load traffic for out ward in local booking for ballast/RMC traffic only on temporary basis for a period of Six months.
Attipattu (AIP) (BG)	MAS	23– 5–2008	Opened for Wagon Load and Train load traffic for inward in local and through booking on temporary basis for a period of Six months.

Name of Station	Division	Date of open	Opened for
Elavur (ELR) (BG)	MAS	05- 6-2008	Opened for Wagon Load and Train load traffic for inward in local and through booking on temporary basis for a period of Six months.
Tikkoti (TKT) (BG)	PGT	17- 6-2008	Opened for handling Motor Car traffic in NMG rakes for Inward in Train Load in Local and through booking.
Mangalore Jn. (MAJN) (BG)	PGT	18- 6-2008	Opened for Outward traffic in Wagon Load and Train Load in Local and through Booking.
Melpakkam (MLPM) BG	MAS	22- 9-2008	Full Rake handling point.
Cauvery (CV) BG	SA	13- 8-2008	Opened for Inward Coal traffic in Wagon load and Train Load in Local and through Booking.
Mahendravadi (MDVE) BG	MAS	06-10-2008	Opened for Wagon load and train Load for Outward Goods traffic including Iron Ore in local and through booking on temporary basis for a period of Six months.
Chinnababu-samudram (CBU) BG	TPJ	20-10-2008	Opened for Full rake for both inward and outward in local and through booking.
Nagapattinam (NGT) BG	TPJ	20-11-2008	Opened for Full Rake for both inward and outward in local and through booking for a period of two months.
(Part of TVR-NCR sec.)		06- 2-2009	Opened for Full rake on Permanent measure.
Royapuram (RPM) BG	MAS	21-11-2008	Opened for Outward booking of Non Programmed Coal in Full rake in local and through traffic upto 31-12-2008 extended upto 31-02-2009.
Korukkupet Goods Shed (KOKG) BG	MAS	21-11-2008	Opened for Outward booking of Non Programmed Coal in Full rake in local and through traffic upto 31-12-2008 extended upto 31-03-2009.
Milavittan (MVN) BG	MDU	21-11-2008	Opened for Outward booking of Non Programmed Coal in Full rake in local and through traffic upto 31-12-2008 extended upto 31-03-2009.
Bommididi (BQI) BG	SA	29-12-2008	Opened for Outward in Wagon load and Train load in local and through booking for a period of Six months.
Sirkazhi (SY) BG	TPJ	30- 1-2009	Opened for Wagon load and Train Load for both Inward and Outward in local and through booking.
Perundurai (PY) BG	SA	30- 1-2009	Opened for Goods traffic in Train load for both Inward and Outward in local and through booking.
Gummidipundi (GPD) BG	MAS	19- 2-2009	Opened for Inward Train load traffic in local and through booking for a period of One month.

15. Station Closed for Goods Traffic During 2008-09

Name of Station	Division	Date of Closing	Closed for
Villupuram (VM) BG	TPJ	3-9-2008	Restricted for booking of all description of Goods traffic for Remodelling work.

16. Siding opened for goods traffic during 2008-09

Sl. No.	Name of siding	Serving Station	Type of siding and Gauge	Date of Opening	Reamrks
1.	Chemplast-sanmar Siding	Metturdam	Private BG	5-6-2008	Independent Booking Point
2.	Adani Agri Logistics Ltd., Siding	Madukkarai	Private BG	9-6-2008	As Independent Booking Point only from 27-02-09 onwards.

II. Siding closed for goods traffic during 2008-09

Sl. No.	Name of siding	Serving Station	Type of siding and Gauge	Date of Closure	Reamrks
Nil					

N. B.—No siding has either been closed during the year 2008-09.

XIV. SAFETY

The Safety Branch of the Railway was created based on the recommendations in the reports of 'Kunzru and Sikri committees' which inquired into certain serious accidents on the Indian Railway. The Safety Branch is essentially a department monitoring the safety performance of various departments and helping them to discharge their safety related functions effectively. The scope and functions of the Safety Department have been defined over the years and basically include the following :—

- (1) To sensitize all the concerned departments about the safety related issues.
- (2) To oversee all safety matters concerning train operations.
- (3) Identify safety susceptibilities and vulnerabilities based on various accidents and incidents occurring in the system.
- (4) To establish an effective response mechanism to handle situations arising out of the accidents.
- (5) To enable the departments to deliver the functions which make the above possible.

ACCIDENT STATISTICS 2008-2009

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 :—

2004-05	2005-06	2006-07	2007-08	2008-09
8	9	16	12	9

The Indian Railways Corporate Safety Plan has laid down a target for bringing down the number of accidents per million train kilometre to 0.17 by the year 2013. The trend of the index for the past five years on Southern Railway is as follows :—

2004-05	2005-06	2006-07	2007-08	2008-09
0.136	0.150	0.240	0.195	0.141

The Category-wise break-up of consequential train accidents for the past five years given below :—

Type of accidents	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
Collision	0	0	0	0	1
Derailment					
a) At stations	0	2	3	2	2
b) In mid-section.	2	1	1	2	1
LC accidents					
a) Manned	0	0	0	0	0
b) Unmanned	3	4	11	6	5
Fire in trains	1	1	0	1	0
Miscellaneous	2	1	1	1	0
Total	8	9	16	12	9

There is a considerable reduction in number of consequential accidents at about 25 per cent during 2008-09 when compared to the previous year 2007-08.

(b) Indicative Accidents

The number of indicative accidents shows a remarkable improvement during 2008-09, over the past four years. The trend of indicative accidents with category-wise break-up for the last 5 years is given below :—

Type of accidents	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009
Averted collision	3	1	1	1	0
Train passing signal at danger	1	3	2	3	3
Breach of block rules	1	1	2	1	0
Total	5	5	5	5	3

SAFETY MEASURES

With the accent on maximizing the usage of existing assets for improving the loading, safety assumes prime importance. Corporate Safety Plan 2003-2013 provides the broad guidelines for improving safety and preventing accidents. Many of the safety measures are arising out of those guidelines.

(A) Railway Safety Review Committee Recommendations

Railway Safety Review Committee set up under the chairmanship of Justice H.R. Khanna, submitted a total of 278 recommendations under Part I and II of the report. Out of these, 240 have been accepted fully or partially by the Railway Board. Implementation of the accepted recommendations is in progress and a total of 150 recommendations have already been implemented till March 2009. 66 recommendations are not pertaining to Southern Railway. Implementation of remaining 24 accepted/partially accepted recommendations is at various stages depending upon availability of resources, success of trials, etc.

(B) High Level Committee on Disaster Management System:

A high level committee was constituted in September 2002 to review Disaster management system over Indian Railways and to give recommendations for its strengthening and streamlining. This committee has given 111 recommendations, 4 were deleted by Railway Board. All others have been accepted for implementation. 10 recommendations are not pertaining to Southern Railway. 83 recommendations have been implemented in Southern Railway up to March 2009 and balance recommendations are in various stages of implementation.

(C) Development of Human Resources

In view of the fact that a majority of accidents on Indian Railways have some link to human failure. The Railways are following the twin policy of development of human resources and providing better and fail-safe equipment. Development of human resources is a continuous process on the Railways. Some of the steps taken in this direction are:-

- 1) Initial and refresher training for staff, Training Curricula are reviewed from time-to-time and modern aids are used to give training to the staff. The duration of various courses have also been rationalized.
- 2) Uniform, standard training modules for Induction, Refresher and Promotional Courses for loco Running Staff have been introduced. Running staff are also given training in Yoga to keep them physically fit and mentally alert in carrying out their sensitive duties.
- 3) Staff connected with train operations are specially screened from time-to-time and those found deficient are given crash courses at the training Centres.

The Zonal Railway Training Institute at Tiruchchirappalli is the major institution for imparting training in train working rules and procedures to all staff concerned with train operations such as Station Masters, Loco Pilots, Guards, etc. Staff requiring technical training in addition to rules and procedures are given training at the Technical Training Schools at Avadi (Electrical), Podanur (S&T), Tambaram (Civil Engineering) and Golden Rock (Mechanical & Diesel). Carriage and Wagon staff get their technical training at STC, Bangalore, now under South Western Railway. In addition to the above, there are six training centres for Group-D staff of Traffic department and five training centres each for C&W, Civil Engineering staff and RPF personnel are trained at RPF training centre/Kimber garden, Trichy, JR/RPF Academy, Lucknow.

- 4) To ensure that staff work as per rules and that their knowledge is up to date, a system of on the job counselling is done by nominated Supervisors and Inspectors. Loco Pilots in particular are placed under the charge of Loco Inspectors who act as mentors.
- 5) Programmed as well as special **Safety drives** are launched to educate the staff on specific topics and check their alertness. Special safety drives are normally ordered whenever certain specific lapses are noticed as a result of a major accident to highlight the importance of the issues involved. During the year 2008-2009, twenty nine safety drives were conducted. These include eleven special drives ordered by Railway Board.
- 6) **Safety Camps** are organized to inculcate Safety Awareness amongst staff and to discuss day-to-day practical problems and exchange views in a free atmosphere. During 2008-09, ninety five such Safety camps were conducted.
- 7) 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 2008-09, ten persons were given the "Man of the Month" award.

- 8) To improve the knowledge of staff, booklets, folders and pamphlets are printed and distributed to the staff. During 2008-09, twenty nine safety posters, three safety banners, nine hand bills, nineteen stickers, three folders, ten booklets and eleven pamphlets were printed and distributed. From Headquarters two booklets i.e. one on "**Disaster Management**" and another on "**Level Crossings**" are released.

(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 interaction 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 where public gather, safety pamphlets/hand-bills and conducting street dramas. Short documentary films on the precautions to be observed while crossing unmanned level crossings were shot with famous film stars Mr.Mohanlal for Kerala area and Mr.Sathyaraj for Tamil Nadu area.
- + A special effort was made to educate road users about the precautions to be taken while crossing the Unmanned LCs through "SMS" to all mobile users of **Airtel & BSNL in Kerala and Tamil Nadu**.
- + Tiruchchirappalli and Chennai Divisions have a group of staff trained to perform street plays for carrying the safety messages to the masses.
- + Advertisements are carried in daily new papers appealing to public not to carry inflammable articles, not to light fires inside the coaches, avoid footboard travel, safety at unmanned LC, 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 14th to 20th February 2009. The following were the highlights of the Safety week :—

- + Safety Seminars at Headquarters Office and Zonal Railway Training Institute, Tiruchchirappalli focusing on various safety and disaster management related issues were presented by eminent retired and serving railway officers.

- + Competitions on Safety related topics such as Essay, Poster designing, Quiz, Drama, Paper presentation and Ex-tempore speech were held during that 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 organizations give yet another opportunity to have direct contact with the public.

(E) Other Safety Activities

(i) A Safety calendar for 2009 was printed and distributed during January 2009. The details of Programmed Safety Drives to be conducted every month get highlighted in the Safety Calendar.

(ii) Four issues of Quarterly Safety Bulletin "SUJOG" were printed and distributed to all concerned during the year.

(iii) A gazette extra ordinary was published and distributed to all divisions in connection with prevention of carriage of inflammable articles during Deepavali season.

(iv) In order to recognize safety consciousness of the staff and good work done in the field of Safety during 2008-09, 124 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 2009.

I. (a) Accidents involving Casualties during 2008-09 (Excluding Manned/Unmanned LC accidents)

K-Killed G-Grievous M-Minor

Sl. No.	Details of accidents	Casualty								
		Railway staff			Passenger			Others		
		K	G	M	K	G	M	K	G	M
1	On 16-01-09, While 6128 Guruvayur Up Exp. was entering at TPJ, Coaches of 6128 Exp. was side collided by LE No. 11003 of 825 A Pass.	0	1	0	0	1	4	0	0	0

(b) Details of Accidents Involving Casualties During 2008-09 Due to Negligence of Road Users

Sl. No.	Brief Details	Killed	Injured	
			Grievous	Minor
1	On 14-04-08, a mini tempo van suddenly trespassed and dashed against the loco of T.No.0610 Up TEN-MS Exp. at unmanned LC No.179 between Ichchangadu and Talanallur stations.	1	0	0

Sl. No.	Brief Details	Killed	Injured	
			Grievous	Minor
2	On 01-08-08, a Tata Indica car suddenly trespassed and dashed against the loco of T.No.384 Dn CBE-NCJ Exp. at unmanned LC No.3 between Karur and Velliyana stations.	1	0	0
3	On 10-08-08, an Ambassador Car suddenly trespassed and dashed against the loco of T.No.825A Dn MV-TEN Passr. at unmanned LC No.255 between Tiruchchi-rappalli and Punggudi stations.	3	0	0
4	On 09-09-08, one empty lorry suddenly trespassed and dashed against the loco of T.No.6123 Dn MS-TVC Ananthapuri Exp. at unmanned LC No.11 between Gangaikondan and Talaiyuthu stations.	1	0	0
5	On 11-10-08, one Maruti Car suddenly trespassed and dashed against the loco of T.No.374 Nagercoil Jn-Thiruvananthapuram Central Passr. at unmanned LC No.7 between Neyyatinkara-Nemam stations.	0	3	1

II. Accidents Statistics - Details

No. of train accidents classified under principal heads which occurred on this Railway (excluding Workshops) during the year 2008-09 and 2007-08 :—

Sl.No	Particulars	2007-08	2008-09
1	a. Collision involving passenger trains	0	1
	b. Collision involving other than passenger trains.	0	0
2	a. Derailments involving passenger trains	4	3
	b. Derailments involving other than passenger trains except train wrecking	0	0
3	Derailments due to train wrecking	0	0
4	Trains running into road traffic at LCs	6	5
5	Fire in trains	1	0
	TOTAL ITEMS (1 to 5)	11	9
6	Failure of coupling and draft gear		
	a. Passenger	0	0
	b. Goods	0	0
	c. Other failure of Rolling Stock	0	0
	d. Other failure of P. Way	0	0
7	Attempted train wrecking	0	0

8	Train running over cattle	0	0
9	Train running over obstruction	1	0
	TOTAL ITEMS (6 to 9)	1	0
	GRAND TOTAL (1 to 9)	12	9
10	No. of persons killed :		
	No. of Railway Servants in workshops	-	-
11	Accidents on the Railway		
	a. Passengers	1	0
	b. Railway Staff	0	0
	c. Other than Passengers & Railway Staff	16	5
	Total other than Workshop	17	5
12	No. of person injured		
	No. of Railway servants in workshops	0	0
13	Accidents on Railways	-	-
	a. Passengers	35	5
	b. Railway Staff	0	1
	c. Other than Passengers & Railway Staff	13	5
	Total other than Workshop	48	11

III. (a) Comparative Figures of Consequential Train Accidents attributed to failure of Human Element for the Last 5 years.

Sl. No.	Category	2004-05	2005-06	2006-07	2007-08	2008-09
1	Collision	0	0	0	0	1
2	Deraiment :					
	(a). At stations	0	1	1	1	0
	(b). In mid-section	2	1	1	0	0
3	LC accidents					
	(a). Manned	0	0	0	0	0
	(b). Unmanned	0	0	0	0	0
4	Fire in trains	0	0	0	0	0
5	Miscellaneous	2	0	1	0	0
	Total	4	2	3	1	1

(b) Comparative Figures of Indicative Train Accidents attributed to failure of Human Element for the last 5 years.

Sl. No.	Category	2004-05	2005-06	2006-07	2007-08	2008-09
1	Averted Collision	3	1	1	1	0
2	Train Passing Signal at danger	1	3	2	3	3
3	Breach of Block rules	1	1	2	1	0
	Total	5	5	5	5	3

IV. Train Accidents per million train kilometres on Southern Railway Since 1994-95

Year	Collision	Derailements	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

V. Comparative details of Inspections, surprise checks, mock drills, etc. on Southern Railway Since 2005-06 to 2008-09

Sl. No.	Details of Inspections	2005-06	2006-07	2007-08	2008-09
1	No. of inspections at station	19428	19198	17630	19759
2	No. of inspections at Yard	3351	5011	5267	7184
3	No. of motor trolley inspection	439	600	1014	1443
4	No. of footplate inspection	27733	27259	25326	25575
5	No. of station working order checked	3465	2759	2202	3438
6	No. of surprise check	6540	6249	5278	6807
7	No. of ambush checks conducted at LC in co-ordination with Civil authorities.	2817	4226	3189	4952
+8	No. of mock drills conducted	11	10	10	11
9	No. of safety meeting, talks, group discussions ..	3006	4015	4764	5406
10	No. of safety seminars	139	160	166	272

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 technology and innovations. As part of this exercise four corrections to GRs (Correction Memos Number 2/2008 to 5/2008) and one correction memo to Accident Manual (Correction Memo No. 10) were issued. Safety Circular No. 14 was issued on 17th December 2008 on the subject "Securing of trains in case of stoppage on gradients".

Safety Drives/Seminars by Head Quarters and Divisions :

- (1) Four Safety Drives were organized by Head Quarters as detailed below :

- * 1st April 2008 to 30th April 2008—To check the availability of essential equipments at Stations and LCs.
- * 20th August 2008 to 3rd September 2008—To prevent fire on trains.
- * 29th December 2008 to 27th November 2008—To prevent collisions and averted collisions.
- * 17th February 2009 to 16th March 2009—To ensure safety during reception of trains on SPT.

(2) One Safety Review Meeting was conducted by CTPM at MAS on 25th August 2008 to analyze the activities of the Operating Safety Branch in the Divisions and to chart out on action plan for the ensuing year.

(3) One Safety Seminar was conducted by the then STM/ Safety/MAS at CLT on 22nd August 2008 where the necessity of bringing down the involvement of Traffic staff in accidents to Zero was emphasized.

(4) In addition to the Safety Drives mentioned supra, 31 Safety Drives were conducted in all the Divisions as per the directives of Safety Directorate/Railway Board.

(5) Monthly Safety Meetings were regularly conducted in every Division on the topics given by the concerned Sr. DOMs.

Training :

Training modifies the knowledge, skill and attitudes of staff to suit job needs. Training plays a vital role in promoting human resources for achieving safety and efficiency in operations.

ZRTI/TPJ plays a crucial role in enhancing the efficiency and safety consciousness of staff of Southern Railway and South Western Railway for upgrading human resources. The training details are as follows :

S. No.	Name of the Course	2008-09	
		No. of Courses	No. of Trainees
1	Initial	88	1501
2	Promotional	16	359
3	Refresher	134	3160
4	General	93	1359
5	Safety camp	95	2652
TOTAL		426	9031

Upgradation of ZRTI/TPJ :

Three book cases at the cost of Rs. 20,790/- were procured for use in the library.

Training Highlights at ZRTI/TPJ :

In addition to initial and refresher training courses for safety category staff, 234 trainees of Accounts, Stores and Personnel Branch were trained.

A special course : on "Reservation policy for SC/ST" inaugurated by Shri V. Pitchairaj, CPO/Admin/MAS was organized on 4th August 08 to 8th August 08. Personnel branch staff of about 16 attended the course.

Three days special course for Principals/HMs of Railway Schools/Southern Railway was organized from 28th to 30th January 2009. Totally Nine Principals/HMs of Railways School after attended the course.

Every month one Safety Seminar is organized on various topics related to Safety in Train Operations.

Ten Hour Implementation :

The 10 Hour implementation in the Railway around 95 per cent. The performance of ten hour implementation this year compared to last year is as follows :

Year	Total Trips	No. of trips within 10 hours (S/On to S/Off)	Per cent of trips within 10 hours (S/On to s/Off)
2007-08	82374	78248	95.0
2008-09	85739	81431	95.0

The divisions wise figures are : (within 10 hours from Signing-On to Signing-Off)

Year	MAS	SA	PGT	TVC	TPJ	MDU	S.Rly.
2007-08	93.6	94.6	94.5	97.6	96.7	99.7	95.0
2008-09	94.3	95.3	93.9	95.3	96.7	98.3	95.0

XV. SECURITY ARRANGEMENTS

General

RPF/Southern Railway has been consistently performing well in ensuring the security of passengers. Crime has been kept well under control by taking effective preventive measures.

I) Preventive measures:

The following are some of the major preventive measures taken by RPF in co-ordination with GRP in combating crime against traveling public :—

- 1) Certain busy stations/trains are identified as Model stations/trains in order to give a special focus towards controlling of crime against passengers in these stations/trains from security point of view at Zonal and Divisional Level (totally 36 stations and 36 trains). RPF staff are deployed on sector/beat system in these stations and Model trains are escorted with sufficient number of RPF staff.
- 2) DFMD (Door Frame Metal detector) and HHMD (Hand Held Metal Detector) are being utilized during exigencies at some of the entry points to check the passengers at the time of entry at important stations. More DFMDs and HHMDs will be utilized to further augment the access control.
- 3) CCTVs are provided at Chennai Central, Chennai Egmore, Tambaram, Katpadi, Madurai, Calicut, Trivandrum Central, Ernakulam, Trichur and Coimbatore stations, to keep a watch on anti-social elements. More stations will be provided with CCTV system in due course.
- 4) Bomb Detection Squads are established at Chennai Central and Coimbatore. More such squads are being utilized at major stations during this year.
- 5) RPF Dog Squad consisting of sniffer dogs are functioning at all Divisional HQrs. and additional 6 Dog squads are functioning at important stations of this Railway and these dogs are frequently utilized for anti-sabotage checks.
- 6) X-Ray luggage Scanner is provided at Chennai Central station to check the passenger's luggage. Two more luggage scanners will be procured and installed at Chennai Egmore and Coimbatore stations shortly.
- 7) To enhance the security environment in Southern Railway, installation of more Modern Security Gadgets is underway at many other important Railway stations.

II) Achievements made during the year 2008-09 :

- 1) **President's Police Medal (PPM) :** Shri G.M.P. Reddy, IPS, IG-cum-Chief Security Commissioner/S.Rly., has been conferred with the coveted President's Police Medal (PPM) for distinguished service. Shri R. A. Premkumar, IPF/IVG has been conferred with the coveted (IPM) Indian Police Medal for his distinguished service.
- 2) **Seizure of Opium :** On 03-08-08, ASIPF/Erode and staff on a tip off attended T. No. 2511 Exp. (Ex. GKP-TVC) on arrival at Erode and seized 4 Kgs. of Opium valued Rs. 2.5 crores, from one passenger and handed over to Intelligence Office NCB, Chennai, who inturn registered a case in Cr.No.48/01/4/08 u/s 21 & 29 of NDPS Act, 1988.
- 3) **Seizure of Heroin :** On 17-02-09, Narcotics Control Bureau, Chennai, apprehended two persons with 850 grams of Heroin, valued Rs.10,00,000/- in T.No.2698 Chennai Central – Jaipur Exp. On duty ASIPF/Chennai Central and staff assisted the NCB officials in the seizure and also attested the seizure mahazar. In this connection, a case in Cr.No.48/01/02/09 was registered by NCB/Chennai Unit.
- 4) **Seizure of sandal wood valued Rs.4 lakhs.:** On 26.11.08, IPF/Ernakulam and party seized 80 Kgs. of sandal wood valued Rs.4 lakhs in T.No. 6346 Trivandrum – Lokmaniya Tilak Exp., and handed over the same to DFO/Ernakulam for further action.

5) Arrest of one Notorious Criminal : On 08-06-08, RPF Special team jointly with GRP arrested one notorious criminal with one suitcase containing valuables (4 cell phones, cheque leaves of different banks for Rs.9.05 lakhs and one cheque book) in T.No.6607 Chennai Egmore – Mangalore Exp at Ottapalam Railway station and handed over him to IRP/Shoranur who inturn registered a case in Cr.No.17/08 u/s 41 d, 102 Cr.P.C and remanded him to judicial custody.

6) Arrest of one Notorious Criminal involved in Robbery Case: On 30-03-09, SIPF/Train Escort Coy./ Trivandrum and party arrested one criminal who was involved in a Robbery case of 31 grams of gold ornaments, cash Rs.12,000/- and cell phone, worth Rs.6,250/- from a woman passenger of T.No.355 Pass. between Kottayam and Chengavanam stations on 15-03-09 and in another incident of chain snatching in T.No.6301 Shoranur – Trivandrum Exp. at Kadakkavur on 26-03-09. The criminal was involved in 23 cases and wanted by various Local Police of Trivandrum, Quilon and Trichur Districts. He was handed over to GRP/Kottayam for further action.

7) Detection of one old hand grenade: On 19-06-08, RPF staff of Villupuram Railway station detected one old hand grenade from the on going gauge conversion work spot (between platform 5 &6) and handed over the same to Local Police for further investigation.

8) Detection of illegal sand mining: On 18-11-08 and 19-1-08, IPF/Palghat and party conducted raid against illegal sand mining at Ottapalam Railway station. The offenders who stacked the sand bags in Railway station premises fled away leaving 7000 Nos. of sand bags. The same were seized and handed over to revenue authority who inturn auctioned the sand bags for Rs.72,000/-.

9) Inauguration of CCTV Control Room: On 22-01-09, Closed Circuit Television (CCTV) Control Room monitored exclusively by RPF, was inaugurated at Chennai Central Railway station by General Manager/Southern Railway. The CCTV system is sophisticated with latest Pan Tilt Zoom (PTZ) and fixed cameras, and would cover Platforms, Circulating Hall, Concourse Hall and Entry/Exit points. The system is Internet Protocol (IP) based and is installed at a cost of Rs.34 Lakhs.

10) During the year under review, RPF Southern Railway has conducted a Special Safety drive to prevent fire on trains, LC Gate accidents, Roof traveling and unauthorized entry into the driving cab of engines, etc., as per the directives of CRB.

11) Retrieval of Gold ornaments, worth Rs.1,50,000/-: On 14-02-09, RPF staff of Arakkonam retrieved one brief case containing gold ornaments, worth Rs.1,50,000/- which was left over by a passenger of T.No.2695 Chennai Central – Trivandrum Exp. and handed over the same to the party at Katpadi.

III) Crime against Passengers :

1) Various seminars/workshop are being held by experts to enhance the professional efficiency of RPF in combating crime against the passengers.

2) Special Awareness campaigns are being held to alert the passengers against theft of their belongings, drugging offences, bomb threat, LC gate accidents, etc.

3) Escorting of trains by RPF and GRP, especially during night hours. On an average 247 mail/express and suburban trains are being escorted by RPF with a strength of 350 RPF staff on daily basis. Similarly, 197 mail/express trains are being escorted by GRP daily.

4) Sr. Officers are conducting frequent checks on RPF staff who are deployed in station and on escort duty in trains.

5) Briefing and debriefing of RPF staff during mounting and dismounting of duties regularly at Posts and Outposts level.

6) Exhibition of informative leaf-lets regarding crime preventive measures.

7) Criminals gallery containing profiles of 254 criminals has also been made on line in Southern Railway Rail net website address <http://10.5.2.32/security/index.html>.

8) RPF Mitra Yojana meetings are conducted regularly and suggestions of Mitras are being made use to raise the efficiency of the Force in combating crime against passengers.

9) Through slides in Cinema Hall: On 149 occasions, as a part of public awareness against theft of their belongings including drugging incidents, slides depicting cautionary messages were displayed in Cinema Halls during the year.

10) Through FM Radio: On 13 occasions, awareness announcements have been broad casted.

11) Bomb threat: During the year, 30 anonymous bomb threat calls in trains/premises were received and they were swiftly attended to by RPF in co-ordination with GRP/Local Police and all the calls turned out to be hoax calls.

IV Comparison of crime :

The following are the incidents of crime against passengers reported 2007-08 :

Category	Total for S.Rly.			State -wise Figures					
				Tamilnadu			Kerala		
	Train	Premises	Total	Train	Premises	Total	Train	Premises	Total
Murder	1	3	4	1	3	4	0	0	0
Dacoity	0	0	0	0	0	0	0	0	0
Robbery	8	6	14	5	4	9	3	2	5
Theft	171	109	280	77	68	145	94	41	135
Chain Snatching	43	5	48	29	4	33	14	1	15
Drugging	15	0	15	6	0	6	9	0	9
Molestation	4	3	7	2	0	2	2	3	5
Rape	0	0	0	0	0	0	0	0	0
Crime on women	9	2	11	9	2	11	0	0	0
Other IPC crime	24	212	286	57	289	246	17	23	40
Total	325	340	665	186	270	456	139	70	209

2008-09

Category	Total for S.Rly.			State -wise Figures					
				Tamilnadu			Kerala		
	Train	Premises	Total	Train	Premises	Total	Train	Premises	Total
Murder	1	2	3	1	0	1	0	2	2
Dacoity	0	0	0	0	0	0	0	0	0
Robbery	7	12	19	5	10	15	2	2	4
Theft	234	148	382	142	108	250	92	40	132
Chain snatching	42	10	52	36	10	46	6	0	6
Drugging	8	0	8	7	0	7	1	0	1
Molestation	13	1	14	3	1	4	10	0	10
Rape	1	0	1	1	0	1	0	0	0
Crime on women	3	17	20	2	17	19	1	0	1
Other IPC crime	68	164	232	56	132	188	12	32	44
Total	377	354	731	253	278	531	124	76	200

Note :—The increase is due to introduction of more train services during the year and increase in volume of passenger traffic.

V) Action taken by RPF against crime on passengers:

During the year, a total of 72 criminals (Pick pocketers – 9, Suit lifters – 15, Chain snatchers – 10 & others-32) involved in passenger related crime, were arrested by RPF and handed over to concerned GRP for registration of cases.

A part from this, special teams of RPF are formed to workout the reported Theft of Passenger Belongings cases in co-ordination with GRP.

VI) Crime against Railway Property :

A number of preventive measures have been taken by RPF/Southern Railway to contain crime against Railway Property and to bring down the incidents of theft/pilferage. As a result of the efforts taken, theft of Railway Property has been kept under control. Figures of incidents of theft of Railway Property, both Booked Consignments and Railway Materials are given below :—

1. Theft of Booked Consignments

Year	No. of cases		%	Value of property(in Rs.)		%	Arrest		
	Rep	Det		Stolen	Recvd		OS	RE	RPF
2007-08	13	10	77	62771	49245	78	12	0	0
2008-09	15	9	61	96529	49129	52	18	0	0

2. Theft of Railway Materials

Year	No. of cases		%	Value of property(in Rs.)		%	Arrest		
	Rep	Det		Stolen	Recvd		OS	RE	RPF
2007-08	347	319	92	1640095	1572748	96	413	15	0
2008-09	269	225	86	1806461	1636333	91	516	18	0

VII) Railway Property (Unlawful Possession) Act, 1966 :

This act is an effective means to control the crime against Railway Property. The surveillance kept over suspects, criminals and successful raids on receivers and criminals by RPF personnel of this Railway, resulted in booking of number of cases with recovery of lakhs of rupees of stolen properties and arrest of several criminals under this Act. The result achieved under this act is shown as under :—

Year	No. of cases	Value of property recovered	Arrest		
			OS	RE	RPF
2007-08	633	Rs. 32,31,791/-	914	27	0
2008-09	574	Rs. 25,93,797/-	856	24	0

VIII) Railways Act'1989 :

Relentless drives against anti-social elements who indulge in illegal sales of journey tickets, cornering of berths/seats, hawking, begging, trespassers, etc., in trains and stations are being conducted by RPF/Southern Railway.

Defaulters are apprehended and prosecuted under the provisions of RA as per the details given below :—

Year	Persons apprehended	Fine realised in Rupees
2007-08	106154	Rs. 1.98 Crores
2008-09	110819	Rs. 2.09Crores

1) Drive against touts:

Intensive raids against touts yielded arrest of 841 touts during the year and they were charged under relevant section of RA as under :—

RA Section	No. of cases	Fine amount realized in Rs.	Pending trial
142	798	Rs. 4,02,800/-	..
143	43	Rs. 89,500/-	24
Total	841	Rs. 4,92,300/-	24

2) Drive against unauthorized Alarm Chain Pulling affecting punctuality of trains :

During the year 1631 instances of Alarm Chain Pulling were reported. Of which, 1269 instances were justified as due to commercial/operational/ mechanical/electrical reasons and in 362 unauthorized instances, defaulters were nabbed and 327 offenders were prosecuted u/s 141 RA, 1989 and realized fine amount Rs.1,37,445/- from them. Rest others were fined through EFT. .

3) LC Gate Accidents:

During the year, 575 instances of LC gate accidents involving road vehicles were reported. Of these, 467 instances were registered by RPF and prosecuted under relevant section of RA, 1989 and realized fine amount from them besides realizing the cost of damage in 5 instances, in 18 instances cases were registered by GRP/ Local police and rest other 85 instances were not registered as they are minor in nature.

IX) RPF Assistance To Ticket Checking Drives

RPF is associating in the special drives in a big way with the Commercial Branch against tickets less travelling.

The result achieved is as under :—

Year	Persons apprehended	Fine realised in Rupees
2007-08	424968	Rs. 10.09 Crores
2008-09	480737	Rs. 13.09 Crores

X) RPF Dog Squad :

1) Southern Railway RPF is the pioneer of forming RPF Dog Squad over the Indian Railways. The Southern Railway Dog Squad was formed in the year 1958 on the pattern of 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, German Shepard. 50 per cent of the existing strength of RPF dogs comprise of sniffer dogs, trained to detect explosives.

2) **Excellent performance by RPF Dog Squad:** In the 88th Mrs. Leela Rathinam Memorial Obedience Dog show held at University Union Stadium, Chetpet, Chennai, on 10-1-09 & 11-1-09, 8 RPF dogs have also participated, of the 42 dogs participated in the show, 8 RPF dogs dominated the show and bagged as many as 4 First place and 4 Second place positions much to the appreciation of all.

IX. TRAINING PARTICULARS : 1-4-2008 to 31-3-2009

No. of Staff Trained at TC/KG/TPJ		
Sl. No.	Name of the Course	No. Trained
	2008	
1	SIPF pre-promotion course	19
2	Headconstable pre-promotion course	64
3	Computer Awareness	123
4	Head Constable Refresher course	223
5	Constable Refresher course	350
6	Constable Initial Course (81st Batch) - Men	104
7	Constable Initial Course (81st Batch) - Women	23
Total ..		906

(II) No. OF SIPFs & IPFs Trained at JR RPF Academy/LKO

Sl. No.	Name of the Course	No. Trained
2008		
1	Weapon Training	11
2	Seminar on Railway Act	6
3	Art of living and stress Management	2
4	Capsule course on Human Rights	4
5	Seminar on Gender Sensitization	3
6	Refresher Course for IPFs	5
7	Bomb disposal and dispersal course	3
8	Disaster Management	2
9	Computer Awareness	4
10	Refresher Course for Prosecutors	1
11	VIP & passenger Security Management	2
12	DAR Seminar	2
13	Seminar on RP(UP)Act and Railways Act for PP.	1
14	Job Oriented Training for PPs/APPs	1
15	Trainer's Training	1
16	Customer Care Management	2
17	Seminar on Right to Information Act - 2005	1
18	Seminar on RPF Mitra Yojna	2
19	Seminar Crime on Railways	1
20	Leadership Development Programme	1
21	Seminar on RP(UP) Act	1
22	Intelligence Orientation	1
23	Workshop on RP(UP)Act & Railways Act for APPs/PPs	1
	Total ..	58

(III) No. of SIPFs/IPFs Trained in CDTs Courses

2008		
1	Crime scene Investigation - Lifting & Packing of Material	4
2	Investigation of Homicide cases	2
3	Investigation of Improvised Explosive Device Cases	4
4	Custodial violence & Scientific Interrogation	1
5	Criminal Psychology and Crime Investigation	1
6	Human Rights vis-à-vis Crime against Women	1
7	Investigation of Computer crime	2
8	Investigation of Economic offences	1
9	Juvenile Justice & Human Rights	1
	Total ..	17

(IV) No. of Staff Trained at Tamilnadu Commando School, Chennai

2008		
1	Bomb disposal and dispersal course	17
2	Bomb disposal and dispersal Refresher course	27
3	Anti-sabotage Measure course	4
4	Men Commando Course	27
	Total ..	75

XI) WELFARE MEASURES :

1) **Sensitization Programme** : On 18-3-09, a sensitization programme for the RPF officers and men on the subject of “Attitudinal changes on Food Habit”, “Building the Image of the Force” and “Role of Supervisory Official in the Image Building”, etc., was organized by RPF/Chennai Division with the participation of some noted Dignitaries.

2) **Free Health Screening Camp for RPF Personnel** : On 10-03-09, IPF/Tambaram organized a “Free Health Screening Camp” sponsored by Hindu Mission Hospital/Tambaram and Sankara Eye Hospital, Pallavaram at the Railway Institute/Tambaram with the participation of Sr.DSC/MAS, Specialist doctors in diabetic and Eye care. 15 RPF Officers, 76 staff and 50 family members of RPF personnel attended the camp and availed the benefit.

3) **Medical camp for RPF staff** : On 23-5-08 & 24-05-08, a special eye screening camp was organized by RPF/Chennai Division in association with Vasan Eye Care Hospital. 214 officers and men availed the benefit.

4) **Special Awareness Programme for HIV/AIDS** : As desired by DG/RPF/NDLS, on 26-02-09, a special awareness programme on HIV/AIDS was organized by RPF/S.Rly Chennai Division in co-ordination with Tamilnadu State AIDS Control Society, to create awareness about HIV/AIDS.

5) **Mass Awareness Campaign for Road Users** : On 15-02-09, a Mass Awareness Campaign for road users was organized by RPF/TVC Division in Alleppey – Kayankulam section through a cycle rally flagged off by ADRM/Trivandrum with the participation of Sr.DSO/Trivandrum and AEN/Quilon to create awareness among the road users on the safety measures to be adopted while crossing LC gates in order to prevent LC-gate accidents.

6) **Second Inter-railway RPF Anti-Sabotage Check Competition** was conducted by Chennai Division, at Chennai on 16-12-08 & 17-12-08 with the participation of 7 teams over Indian Railways. Southern Railway team retained the Championship position for the 2nd consecutive year.

7) **Seminar on Security (we, the Railway men)** was organized by DSC/TPJ on 13-8.08, with the participation of 350 Railway employees and supervisors from all branches.

8) **Security Awareness Programme for CCTIs/TTEs, Coach Attendants and Bed Roll Suppliers** was jointly organized by DSC/TPJ and Sr.DCM/TPJ on 26-3-09 with the participation of 30 CCTIs/TTEs, Coach Attendants/Bed Roll Suppliers.

XII) RSKN Assistance :

Sl.No	Details	Amount (Rs.)
1.	Ex-gratia lumpsum amount	6,00,000
2.	RSKN settlement	1,76,000
3.	VSK assistance	70,000
4.	Funeral assistance	1,19,000
5.	Merit scholarship	2,86,400
6.	Contribution to Nidhi/Hqrs./NDLS	3,14,760
Total ..		11,37,000

XIII) Grant of Money Reward. 2008-09 :

Sl.No	Details	Amount (Rs.)
1.	Sanctioned by MR	4,07,000
2.	Sanctioned by MOSR	5,20,000
3.	Sanctioned by ADG	200
4.	Sanctioned by GM/AGM/ADGM	92,000
5.	Sanctioned by CSC/DY.CSC& SO	1,17,800
Total ..		11,37,000

XIV) Passenger Facilitation by RPF :**(2008-09)**

Sl. No	Details	Amount (Rs.)
1	Assistance given to injured passenger on train journey	228
2	Handing over of runaway children	364
3	Securing abandoned baggage's	1039 (Instances)
4	Seizure of illicit liquor/Ganja etc., in trains	Rs.2.70 (Crores in 13 instances)
5	Value of smuggled Rice seized and handed over to Civil Supply Authorities ..	Rs. 244,190/-

XV) Sabotage :

2006-07	-	NIL
2007-08	-	NIL
2008-09	-	NIL

Conclusion : RPF/Southern Railway is striving hard to ensure that the passengers travel with full sense of security in its jurisdiction.



**FIFTYNINE YEARS
OF
SUMMARY**

SOUTHERN RAILWAY

Details	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62
Assets—(As on 31st March)												
Capital-at-charge (Rs. in crores)	115.28	115.65	113.05	118.50	124.81	133.02	145.15	160.10	172.60	181.30	189.40	211.20
Total Investment (Rs. in crores)	..	..	..	130.00	139.65	152.57	169.26	190.14	209.60	224.62	239.00	262.85
Route Kilometres Electrified	..	29.19	29.19	29.19	29.19	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	9,912.53	9,914.89	9,916.71	9,921.50	9,944.25
Running track Kilometres Electrified	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39	58.39	65.28
Total	9,811.15	9,836.54	9,850.96	9,905.54	9,997.10	9,912.48	9,989.57	10,085.03	10,130.27	10,196.78	10,295.23	10,463.52
Number of Stations	1,234	1,237	1,238	1,243	1,255	1,252	1,262	1,286	1,308	1,305	1,315	1,337
Rolling Stock—												
Locomotives												
Steam	1,410	1,412	1,430	1,395	1,420	1,419	1,501	1,580	1,614	1,662	1,644	1,714
Diesel	..	..	..	..	..	..	..	..	..	..	..	..
Electric	4	4	4	4	4	4	4	4	4	4	4	4
Passenger carriages	3,020	3,041	3,066	3,219	3,260	3,227	3,403	3,425	3,457	3,657	3,724	3,840
Coaching stock												
Electric Multiple Unit	72	72	72	96	96	96	96	96	96	96	96	96
Coaches.												
Rail cars	9	9	8	8	18	18	17	29	30	30	30	30
Other coaching vehicles	997	1,011	1,022	1,033	1,108	1,101	1,178	1,185	1,212	1,217	1,212	1,381
Wagons	24,074	24,429	26,839	28,080	28,895	29,054	31,902	33,470	35,143	36,165	36,024	37,089
Staff—												
No. of employees (in 1000s)	139.4	145.0	147.5	152.3	153.5	158.4	158.5	161.0	165.8	163.7	161.6	161.7
Cost of staff (in crores of Rs.)	17.24	18.88	19.00	20.25	20.91	22.87	22.76	25.22	27.02	27.14	29.58	30.46
Average cost per employee (in Rs.)	1,240	1,376	1,345	1,351	1,367	1,467	1,436	1,578	1,639	1,662	1,823	1,888
For the year—												
Transportation Out-put—Train-kilometres excluding Departmental (in millions)—												
Passenger and proportion of mixed	36.65	37.31	37.38	37.94	39.06	39.42	36.62	39.55	39.49	39.04	38.85	39.36
Goods and proportion of mixed	18.64	18.56	18.48	17.96	18.60	19.77	20.52	20.67	21.19	22.61	22.87	23.72
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—												
Vehicle kilometres	568	581	581	576	591	597	610	609	616	618	631	644
Wagon kilometres	617	617	618	616	644	686	731	762	789	873	888	925
Volume of Traffic—												
Passenger Traffic—												
No. of passengers originating (in millions)	272	226	216	205	211	217	225	223	228	237	252	256
Passenger kilometres (in millions)	12,151	11,742	10,887	10,032	11,073	10,696	11,191	11,052	10,651	10,862	11,719	12,105
Passenger earnings (in crores of Rs.)	18.25	21.10	18.63	17.44	17.68	18.83	20.11	19.84	19.69	20.35	22.06	25.54
Average lead (in kilometres)	44.1	50.1	50.3	48.5	52.2	48.0	49.5	48.9	46.2	45.5	46.1	46.8
Average rate per passenger kilometre (in paise)	1.50	1.80	1.71	1.74	1.60	1.76	1.80	1.79	1.85	1.87	1.88	2.11
Goods Traffic—												
Tonnes originating (in millions)—												
Revenue earning Traffic	10.9	10.6	8.8	8.8	9.0	9.2	9.4	10.2	10.3	10.7	11.8	12.1
Total Traffic	11.9	11.3	10.9	11.1	11.4	12.4	13.1	14.6	15.0	15.8	16.6	16.1
Net tonne kilometres (in millions)—												
Revenue Earning Traffic	4,840	4,676	4,884	5,003	5,370	5,966	6,204	6,636	6,929	7,386	7,755	8,411
Total Traffic	5,313	5,243	5,433	5,530	5,879	6,519	6,956	7,509	7,715	8,309	8,733	9,379
Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)	20.7	21.2	19.0	19.6	20.6	23.5	24.9	27.1	29.1	31.9	34.0	35.8
Average lead (in kilometres) (Revenue)	343.6	363.7	384.5	389.0	396.1	405.1	396.5	385.5	387.5	391.0	400.5	427.1
Average rate per tonne kilometre (in paise)	4.27	4.54	3.89	3.92	3.84	3.94	4.02	4.08	4.19	4.32	4.38	4.26
Quantity of fuel consumed by locomotives—												
Coal (in thousand tonnes)	1,378	1,436	1,461	1,461	1,562	1,664	1,839	1,964	2,001	2,127	2,187	2,348
Diesel oil (in kilometres)	..	..	..	..	..	..	..	403	689	822	888	925
Stores purchases (in crores of Rs.)—												
Indigenous	9.22	7.89	8.79	7.27	8.94	9.29	13.78	20.88	12.17	11.64	11.04	21.99
Total	12.05	11.93	13.13	11.13	16.57	13.35	23.46	29.17	23.22	18.50	20.56	23.75
Operating revenue and expenditure (in crores of Rs.)—												
Revenue—Gross receipts	44.25	46.82	N. A.	N. A.	43.25	47.93	49.98	52.53	55.03	58.68	62.82	68.57
Working expenses including depreciation etc. and miscellaneous expenses.	34.54	35.03	N. A.	N. A.	39.19	42.86	45.43	52.23	51.31	53.58	56.43	60.48
Net revenue receipts	9.71	11.79	N. A.	N. A.	4.06	5.07	4.55	0.30	3.72	5.10	6.39	8.09
Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.	8.43	10.20	N. A.	N. A.	3.25	3.82	3.13	0.19	2.15	2.81	3.37	3.83
Operating ratio (per cent)	78.65	74.35	N. A.	N. A.	80.53	90.15	88.20	96.34	92.77	89.05	88.77	85.47
Dividend to General Revenues	4.54	4.57	N. A.	N. A.	4.83	4.99	5.04	5.97	6.65	7.00	7.31	8.29
Payments to States in lieu of tax on Passenger fares.	..	..	..	..	..	..	..	..	..	..	..	2.12
Surplus (+)/Deficit (—)	(+) 5.17	(+) 7.12	N. A.	N. A.	(—) 0.77	(+) 0.08	(—) 0.49	(—) 5.67	(—) 2.93	(—) 1.99	(—) 0.92	(—) 2.32

SOUTHERN RAILWAY

FIFTYNINE

Details	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88
Assets— (As on 31st March)															
Capital-at-charge (Rs. in crores)	390.82	431.99	474.61	502.58	517.97	530.77	555.32	596.61	635.89	680.58	719.41	784.82	848.08	921.29	983.90
Total Investment (Rs. in crores)	485.02	529.45	577.37	611.21	625.15	647.40	677.82	728.10	777.77	835.42	890.88	974.29	1,055.15	1,157.41	1,257.41
Route Kilometres Electrified	166.44	166.44	166.44	166.44	166.44	166.44	255.18	335.18	343.96	385.26	385.26	529.01	598.39	598.39	598.39
Total ..	7,452.32	7,452.32	7,448.73	7,578.73	6,488.76	6,488.76	6,629.24	6,702.53	6,702.53	6,700.80	6,710.36	6,722.30	6,728.66	6,711.76	6,756.36
Running track Kilometres Electrified	220.66	220.66	220.66	220.66	220.66	220.66	406.08	567.08	572.56	672.82	672.82	960.29	1,102.77	1,137.65	1,138.65
Total ..	8,262.59	8,276.74	8,297.96	8,443.62	7,375.25	7,387.73	7,537.76	7,537.76	7,629.45	7,660.75	7,725.09	7,756.18	7,772.47	7,790.45	7,836.05
Number of Stations	1,017	1,016	1,000	1,002	883	881	887	884	882	868	876	868	861	862	852
Rolling Stock—															
Locomotives															
Steam ..	943	934	911	916	799	792	761	702	592	382	370	364	358	336	229
Diesel ..	244	267	278	278	191	205	213	228	266	280	288	308	316	317	325
Electric ..	20	20	20	20	20	20	20	20	20	20	20	20	27	41	51
Coaching stock															
Passenger carriages	3,777	3,856	3,820	3,727	3,899	3,880	3,879	3,834	3,727	3,669	3,756	3,766	3,811	3,812	3,793
Electric Multiple Unit	171	171	171	171	171	192	272	348	358	354	353	353	371	371	371
Coaches.															
Rail cars ..	8	8	8	8	11	11	14	11	7	7	7	7	10	10	10
Other coaching vehicles	1,066	1,049	1,029	988	968	928	922	888	865	824	817	809	793	768	746
Wagons	34,173	33,863	35,104	30,029	31,723	31,062	31,005	30,032	29,588	28,582	27,547	26,503	26,325	25,885	24,886
Staff—															
No. of employees (in 1000s)	135.0	136.0	137.7	138.6	124.9	129.5	135.2	136.3	137.6	137.0	140.9	139.7	141.3	142.2	142.5
Cost of staff (in crores of Rs.)	57.96	73.75	88.40	92.30	91.42	87.99	110.75	128.46	147.84	180.28	208.67	241.01	264.11	325.55	402.1
Average cost per employee (in Rs.)	4,314	5,450	6,419	6,668	6,528	7,613	8,443	9,515	10,784	13,214	14,885	17,342	18,686	23,021	28,216
For the year—															
Transportation Out-put—Train-kilometres excluding Departmental (in millions)—															
Passenger and proportion of mixed	30.06	25.20	33.82	35.54	35.59	32.25	32.43	33.72	33.23	35.67	37.35	33.38	38.02	38.57	39.35
Goods and proportion of mixed	16.28	16.24	17.40	18.40	16.15	13.03	12.48	11.93	13.49	13.00	13.48	14.12	144.99	15.65	15.58
Vehicle and wagon kilometres (excluding departmental and brake vans) (in millions)—															
Vehicle kilometres	59	59	62	67	69	631	642	661	669	715	743	763	769	800	855
Wagon kilometres	85	82	85	93	83	65	646	628	747	709	765	817	817	945	992
Volume of Traffic—															
Passenger Traffic—															
No. of passengers originating (in millions)	233	218	257	288	310	331	302	333	346	344	226	229	283	288	337
Passenger kilometres (in millions)	11,415	10,700	12,217	14,420	15,448	16,278	16,135	18,128	19,294	20,344	18,560	19,898	20,821	20,952	21,904
Passenger earnings (in crores of Rs.)	384	415	492	554	603	622	672	781	955	1162	1257	1410	16161	18081	19489
Average lead (in kilometres) ..	44.7	48.29	48.80	47.70	49.20	48.5	52.5	53.6	54.9	58.2	65.8	69.7	71.8	68.1	68.1
Average rate per passenger kilometre (in paise)	3.36	3.88	3.58	3.82	3.88	3.82	4.16	4.31	5.00	6.00	6.76	7.09	7.76	8.63	8.90
Goods Traffic—															
Tonnes originating (in millions)—															
Revenue earning Traffic	12.9	13.0	13.4	14.2	13.0	11.0	10.9	10.9	12.9	12.2	11.4	13.2	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	13.7	12.7	14.4	15.2	15.3	15.9
Net tonne kilometres (in millions)—															
Revenue earning traffic	8,726	9,052	9,843	10,237	9,101	7,996	7,761	7,686	9,575	9,083	10,104	11,041	11,829	11,724	11,538
Total traffic	9,324	9,664	10,323	10,855	9,847	8,386	8,190	8,067	9,846	9,374	10,367	11,327	12,129	11,944	11,832
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	155.03	187.89	208.66	240.01	257.36	291.50
Average lead (in kilometres) (Revenue)	4330	4340	4370	4280	3740	3500	3420	3330	3680	3780	408	380	377	352	341
Average rate per tonne kilometre (in paise)	6.31	7.47	8.52	8.87	8.70	8.64	9.76	10.53	13.58	16.54	18.60	18.90	20.29	21.95	25.05
Quantity of fuel consumed by locomotives—															
Coal (in thousand tonnes)	1,128	1,023	1,214	1,200	1,120	994	882	888	635	474	446	426	380	340	282
Diesel oil (in kilolitres)	131,524	133,660	140,010	148,840	125,089	97,747	102,627	106,091	117,688	127,035	129,864	138,033	144,817	144,966	153,677
Stores purchased (in crores of Rs.)—															
Indigenous	400	53.75	70.45	69.15	52.40	49.78	82.14	118.33	136.01	147.51	148.38	162.27	179.97	204.46	230.93
Total	449	62.60	76.11	74.63	53.40	51.28	86.51	124.37	145.68	158.68	161.42	173.23	199.17	222.61	247.77
Operating revenue and expenditure (in crores of Rs.)—															
Revenue—Gross receipts	106.67	122.67	151.34	165.55	149.15	155.44	172.11	192.03	263.34	310.36	354.95	394.14	464.97	506.18	554.09
Working expenses including depreciation etc. and miscellaneous expenses.	109.58	131.39	160.66	180.49	168.26	176.70	207.81	236.57	305.13	368.16	437.13	490.14	556.06	646.84	716.16
Net revenue receipts	(-2.91)	(-8.72)	(-9.32)	(-14.94)	(-19.11)	(-21.26)	(-35.70)	(-44.54)	(-41.79)	(-59.22)	(-83.85)	(-96.00)	(-91.09)	(-123.69)	(-149.22)
Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.	(-0.56)	(-2.0)	(-2.0)	(-3.2)	(-3.7)	(-4.13)	(-6.53)	(-7.44)	(-6.64)	(-8.70)	(-11.42)	(-12.40)	(-11.06)	(-13.42)	(-14.99)
Operating ratio (percent)	102.05	106.04	105.7	109.70	112.8	113.7	120.74	123.19	115.87	118.62	123.15	124.36	119.59	130.08	129.50
Dividend to General Revenues	17.99	20.20	21.26	22.34	22.60	22.91	22.25	33.57	36.16	41.89	42.42	46.35	50.90	55.67	61.42
Payments to States in lieu of tax on passenger fares.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Surplus (+) Deficit (-)	(-20.90)	(-28.92)	(-30.58)	(-37.28)	(-41.71)	(-44.86)	(-58.51)	(-78.11)	(-71.15)	(-80.39)	(-116.17)	(-132.81)	(-135.12)	(-179.06)	(-210.64)

YEARS OF SUMMARY—contd.

1988-89	1989-90	1990-91	1991-92	1992-93	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	1999-2000	2000-01	2001-02	2002-03	Details
1,075.55	1,195.87	1,320.46	1,423.42	1,796.23	1,844.87	1,869.20	1,831.59	1,780.38	2,177.34	2,555.48	2,965.63	3,375.13	3,773.92	4,142.37	Assets— (As on 31st March)
1,399.56	1,559.58	1,741.93	1,892.06	2,330.42	2,641.17	2,912.38	3,309.55	3,819.04	4,630.81	5,331.98	5,927.01	6,534.54	7,187.95	7,900.54	Capital-at-charge (Rs. in crores)
															Total investment (Rs. in crores)
598.39	649.60	775.56	959.09	959.09	972.56	1,001.7	1,115.80	1,227.74	1,259.29	1,316.04	1,352.05	1,352.05	1,483.91	1,558.56	Route Kilometres Electrified
6,757.76	6,924.04	6,924.04	6,928.26	7,009.00	7,020.55	7,050.97	7,049.47	7,040.49	7,009.51	7,145.88	7,144.03	7,164.83	7,197.13	7,192.88	Total
1,149.01	1,273.77	1,509.34	1,797.23	1,797.23	1,827.42	1,854.62	2,049.76	2,257.61	2,339.12	2,468.35	2,538.23	2,538.23	2,671.63	2,748.92	Running track Kilometres Electrified
7,849.89	8,049.4	8,059.52	8,062.06	8,142.80	8,171.53	8,211.20	8,212.99	8,223.87	8,244.86	8,427.7	8,494.40	8,593.64	8,658.94	8,689.71	Total
845	845	832	831	821	813	802	786	774	772	769 *	757	757	754	752	Number of stations.
171	168	138	117	75	41	10	10	10	10	10	10	10	10	10	Rolling Stock—
346	364	374	388	373	398	421	434	436	487	516	512	527	559	538	Steam ..
73	102	107	112	127	145	149	150	155	171	184	215	223	212	224	Diesel ..
3,919	3,958	4,068	4,233	4,452	4,574	4,559	4,632	4,863	5,012	4,869	*4,962	5,152	5,264	5,495	Electric ..
*371	378	389	392	415	418	449	477	512	537	592	595	603	627	603	Passenger carriages
															Electric Multiple Unit coaches.
4	4	4	4	4	4	4	4	2	..	2 *	2	2	2	2	Rail cars ..
696	641	610	573	535	523	505	519	531	544	517 *	* 281	271	273	270	Other coaching vehicles
24,334	23,903	24,693	24,402	23,536	21,016	17,956	16,280	15,311	15,629	16,475	15,888	14,732	13,558	13,031	Wagons
															Staff—
144.2	146.6	147.0	150.0	149.4	145.8	1,42,937	1,40,366	139,300	136,654	136,585	136,463	133,587	130,579	**126,992	No. of employees (in 1000s)
463.5	513.5	560.1	611.5	684.1	795.39	880.62	993.57 **	1,114.70	1,425.99	1,587.35	1,653.20	1,816.72	1,822.43	1,893.43	Cost of staff (in crores of Rs.)
32,148	35,079	38,150	40,826	45,886	550,97	616,17	70,784 **	80,075	1,04,435	1,16,397	1,21,214	1,360.72	1,39,636	1,49,003	Average cost per employee (in Rs.)
															For the year—
40.13	40.77	41.09	41.10	41.92	42.00	45.42	48.19	48.64	50.18	50.34	51.60	52.50	53.80	55.41	Transportation Output—Train kilometres excluding depot, mental (in millions)—
16.25	16.04	16.86	16.61	17.30	15.63	14.35	14.52	14.97	14.90	14.85	14.99	14.31	13.89		Passenger and proportion of mixed Goods and proportion of mixed Vehicle and wagon K.Ms. (excluding dpt. mental and brake-vans) (in millions)—
876	890	902	913	944	954	1,022	1,065	1,073 *	1,133	1,170 *	1,210	1,296	1,373	1,435	Vehicle kilometres
1,007	1,018	1,107	1,103	1,146	1,090	1,044	1,077	1,185	1,190	1,132 *	1,250	1,326	1,280	1,289	Wagon kilometres
															Volume of Traffic—
282	295	318	332	317	318	349	365	381	417	402	* 423	465	492	466	Passenger Traffic—
22,097	23,637	25,044	27,021	25,017	24,115	27,224	29,880	31,998	35,328	37,298	40,458	44,968	46,725	46,867	No. of passengers originating (in millions)
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 kilometres (in millions)
69.5	76.0	77.8	76.2	78.7	76.6	70.31	*75.83	79.5 **	81.4	82.73	92.05	93.24	87.28	96.14	Passenger earnings (in crores of Rs.)
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 lead (in kilometres)
															Average rate per passenger K.M. (in paise)
16.8	17.3	18.6	19.6	20.7	19.0	19.27	21.02	23.41	27.53	29.34	29.51	30.09	24.88	24.08	Goods Traffic—
18.4	18.8	20.0	20.98	21.97	20.1	20.39	22.20	24.55	29.00	30.95	30.94	32.11	27.27	24.86	Tonnes originating (in millions)—
11,906	11,998	13,200	13,201	13,622	129,91	12,931	13,864	15,018	15,251	14,629	15,788	16,623	15,506	15,924	Revenue earning traffic
12,200	12,282	13,467	13,467	13,857	131.58	13,091	14,026	15,141	15,407	14,763	15,921	16,791	15,725	16,118	Total traffic
316.50	374.12	439.32	472.16	524.31	602.65	670.69	779.38	884.33	1,065.44	1,068.34	1,159.72	1,287.76	1,210.66	1,256.59	Net tonne K.M. (in millions)—
346	351	342	353	350	349	331	330	304	303	311	311	312	331	331	Revenue earning traffic
26.58	31.18	33.28	35.77	38.49	46.39	51.87	56.22	58.89	69.86	73.03	73.46	77.47	78.07	78.91	Total traffic
212	205	177	168	128	40	15.46	2.34	2.19	2.10	2.18	2.16	2.59	1.90	1.74	Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)
162,219	171,611	179,309	177,546	179,265	161,865	170,530 *	178,816 *	178,665 *	181,125	1,97,668	2,17,566	2,19,143	2,26,870	2,32,602	Average lead (in kilometres)
307.55	347.46	427.42	457.63	587.05	480.06	456.31	498.43	696.56	1,024.92	920.15	766.61	992.02	934.29	1,246.79	Average rate per tonne K.M. (in paise)
324.63	391.39	454.57	476.18	617.49	505.13	493.35	507.23	719.08	1,040.55	972.00	*779.59	1,019.24	*958.58	1,260.63	Quantity of fuel consumed by locomotives—
632.70	710.24	822.58	918.02	1,007.91	1,193.62	1,327.35	1,546.09	1,699.87	2,022.29	2,104.80	2,336.43	2,603.34	2,607.15	2,854.45	Coal (in thousand tonnes)
766.79	879.77	976.21	1,081.45	1,220.57	1,313.76	1,447.90	1,627.72	1,821.09	2,241.30	2,423.34	*2,679.55	3,140.57	3,251.10	3,398.97	Diesel oil (in kilolitres)
(-118.22)	(-150.00)	(-125.60)	(-127.78)	(-169.05)	(-66.31)	(-) 63.93	(-) 31.24	(-) 70.47	(-) 161.45	(-) 243.00	(-) 249.87	(-) 437.06	(-) 630.86	(-) 485.51	Stores purchased (in crores of Rs.)—
(-) 10.99	(-) 12.54	(-) 9.51	(-) 8.98	(-) 9.41	(-) 3.27	(-) 2.81	(-) 1.20	(-) 2.39	(-) 4.54	(-) 5.99	(-) 5.51	(-) 8.81	(-) 11.77	(-) 8.47	Indigenous
122.04	124.02	118.63	117.81	117.96	110.60	109.47	105.62	106.98	111.81	114.29	114.74	120.80	124.98	119.15	Total
66.85	71.40	84.50	93.69	113.15	139.66	*145.15	146.31	143.62	142.90	185.71	217.23	248.25	259.83	289.15	Operating revenue and expenditure (in crores of Rs.)—
(-) 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	Revenue—Gross receipts
															working expenses including depreciation and miscellaneous expenses.
															Net revenue receipts
															Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.
															Operating ratio (per cent)
															Dividend to General Revenues
															Payments to States in lieu of tax on Passenger fares.
															Surplus (+)/Deficit (-)

* Revised.

Details	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2010-11	2010-12							
Assets—(As on 31st March)															
Capital-at-charge (Rs. in crores)	3,532.81	3,715.46	4,056.06	4154.34	4333.30	4647.55									
Total Investment (Rs. in crores)	6,854.27	7,516.98	8,433.90	9564.02	11069.18	12363.77									
Route Kilometres Electrified	1,501.88	1,477.02	1,729.23	1600.22	1722.90	1816.36									
Total ..	5,234.48	5,209.62	5,209.62	5159.85	5169.42	5145.61									
Running track Kilometres Electrified	2,578.01	2,595.20	2,952.73	2823.72	2957.41	3064.91									
Total ..	6,628.99	6,678.34	6,717.96	6686.96	6707.54	6718.68									
Number of Stations	601	599	597	536	545	556									
Rolling Stock—															
Locomotives															
Steam ..	10	10	10	10	10	10									
Diesel ..	421	421	426	416	393	373									
Electric ..	243	223	241	265	279	290									
Passenger carriages	4,283	4,518	4,699	4897	5507*	5562									
Coaching stock															
Electric Multiple Unit	607	704	618	676	669	677									
Coaches.															
Rail cars ..	2	2	2	0	0	0									
Other coaching vehicles	206	387	464	499	282*	281									
Wagons	12,405	11,813	11,530	11064	11224*	10653									
Staff—															
No. of employees (in 1000s)	106.844	106.258	104.865	105.177	104.680	102.472									
Cost of staff (in crores of Rs.)	1,835.52	2,055.00	2,147.91	2250.82	2415.74	4374.27									
Average cost per employee (in Rs.)	17,170.81	19,364.5	20,489.6	21,478.7	23,062.4	43,071.2									
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	38.79									
Goods and proportion of mixed	11.71	11.58	11.93	12.23	12.25	12.68									
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—															
Vehicle kilometres	1,208	1,225	1,280	1253	1345	1404									
Wagon kilometres	1,134	1,128	1159	1226	1285	586									
Volume of Traffic—															
Passenger Traffic—															
No. of passengers originating (in millions)	418	460	496	565	621	697									
Passenger kilometres (in millions)	38,970	43,069	46,609	55092	57327	60391									
Passenger earnings (in crores of Rs.)	1,58.66	1,238.82	1,332.56	1510.77	1805.86	2294.09									
Average lead (in kilometres)	88.58	87.61	89.17	93.97	87.89	93.89									
Average rate per passenger kilometres (in paise).	29.73	28.76	28.59	27.42	31.50	30.18									
Goods Traffic—															
Tonnes originating (in millions)—															
Revenue earning Traffic	23.58	22.71	26.94	31.52	30.03*	33.75									
Total Traffic	24.24	23.19	27.27	31.31	30.26*	34.32									
Net tonne kilometres (in millions)—															
Revenue earning traffic	13,341	13,931	14,736	14968	15116	16234									
Total traffic	13,596	14,058	14,825	15008	15140	16272									
Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)	1,036.42	1,083.04	1,288.45	1471.88	1617.61	1840.80									
Average lead (in kilometres) (Revenue)	283	280	263	234	225	236									
Average rate per tonne kilometre (in paise)	77.69	77.74	87.44	98.34	107.01	267.90									
Quantity of fuel consumed by locomotives—															
Coal (in thousand tonnes)	1.86	1.97	1.85	1.74	1.90	1.46									
Diesel oil (in kilolitres)	1,80,078	1,79,191	1,85,225	186260	182379	180577									
Stores purchased (in crores of Rs.)—															
Indigenous	974.15	1,260.84	1,638.44	1790.10	1901.84	3003.37									
Total	1,015.49	1,283.20	1,699.65	1800.81	2308.19	3050.84									
Operating revenue and expenditure (in crores of Rs.)—															
Revenue—Gross receipts	2,419.39	2,579.34	2,913.06	3330.81	3772.04*	4324.05									
Working expenses including depreciation etc. and miscellaneous expenses.	2,879.45	3,123.99	3,334.34	3522.94	3968.17*	5451.02									
Net revenue receipts	(-) 400.25	(-) 501.80	(-) 551.27	(-) 244.85	(-) 191.13	(-) 1126.97									
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	(-) 23.58									
Operating ratio (per cent)	118.55	120.79	114.46	105.85	105.07	126.06									
Dividend to General Revenues	248.13	231.17	249.47	264.30	294.87	311.54									
Payments to States in lieu of tax on Passenger fares.															
Surplus (+)/Deficit (-)	(-) 948.38	(-) 732.97	(-) 800.74	(-) 509.15	(-) 491.20	(-) 1447.62									

* Revised

No. of Staff
(Figures in Thousands)Open line : 101
Construction : 2
Total : 103

YEARS OF SUMMARY—concl'd.

[illegible]

SOUTHERN RAILWAY
DENSITY STATEMENT FOR THE YEAR 2008-2009—BROAD 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 tonnes Kms. per route Kms. per day		Total (14 + 15)	Gross tonne kilometres (including weight of engine and Departmental) for goods including proportion of mixed per route kilometre per day		Gross tonne kilometres (including weight of engine and Departmental) for Coaching including proportion of mixed per route kilometre per day		Gross tonne kilometres (including weight of engine and Departmental) for Coaching and Goods services combined per route 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)
	CHENNAI DIVISION				Up.	Dn.	Up.	Dn.	Up.	Dn.	Up.	Dn.	Up.	Dn.		Up.	Dn.	Up.	Dn.	Up.	Dn.	Up.	Dn.
1	MAS-GDR	136	D	E	63.159	63.159	1169.860	1169.860	12.029	13.971	619.626	696.747	6607	31231	37837	22100	49312	40122	40122	62222	89434	649	2236
2	MAS-AJJ	69	D	E	155.976	155.976	2335.791	2335.791	19.604	21.694	942.825	1024.596	27671	46874	74544	54650	76316	87281	87281	141931	163597	1411	2161
3	AJJ-JTJ	144	D	E	31.069	31.069	1204.906	1204.906	21.814	22.215	980.915	992.831	6789	52005	58794	35487	81013	33384	33384	68872	114397	311	2341
4	AJJ-RU	72	D	E	12.936	12.936	310.988	310.988	19.127	36.832	913.826	892.455	17927	49197	67123	44145	74649	9382	9382	53527	84032	937	1336
5	MSB-VLCY EMU	20	D	E	59.503	59.503	0.000	0.000	0.000	0.000	0.000	0.000	0	0	0	0	0	18709	18709	18709	18709	0	0
6	VM-KDK	168	S	E	20.994	20.994	715.966	715.966	2.276	2.440	96.393	106.633	2234	6058	8292	5074	9466	20283	20283	26356	29748	981	2483
7	CGL-AJJ	63	S	E	3.515	3.515	66.753	66.753	0.058	0.004	2.445	0.129	36	1	37	120	27	2009	2009	2129	2036	624	262
	PALGHAT DIVISION																						
1	PTJ-PGT	52	D	E	23.814	23.814	852.256	852.256	9.287	9.213	397.945	378.683	9976	16761	26727	22705	29065	23867	23867	46571	52932	1074	1818
2	PGT-SRR	44	D	E	24.355	24.355	893.740	893.740	8.430	9.637	336.839	382.207	8539	16871	25410	19538	29362	24901	24901	44439	54263	1013	1769
3	SRR-CLT	86	D	NE	18.107	18.107	637.662	637.662	4.190	5.146	161.398	191.152	6711	7187	12898	11230	13786	17797	17797	29027	31583	1363	1397
4	CLT-CAN	89	D	NE	19.069	19.069	668.899	668.899	3.321	4.754	132.523	163.689	6136	3601	9737	10998	9523	18669	18669	29667	28193	1848	757
5	CAN-MAQ	131	D	NE	14.738	14.738	548.488	548.488	3.208	4.313	125.314	163.121	6542	1171	7714	11064	6625	15222	15222	26286	21848	2039	272
6	PGT-PGTN	4	S	NE	27.378	27.378	831.837	831.837	13.600	11.029	555.046	481.595	7804	17730	25534	27621	35348	1683	1683	29304	37031	574	1608
7	SRR-NIL	66	S	NE	4.992	4.992	96.836	96.836	0.000	0.000	0.000	0.000	0	0	0	31	31	2953	2953	2985	2985	0	0
8	MAQ-TDK	22	S	NE	0.000	0.000	0.000	0.000	0.030	0.053	0.541	0.581	2	31	33	25	55	3668	3668	3693	3723	73	589
	TRIVANDRUM DIVISION																						
1	SRR-CHY	115	D	E	29.907	29.907	1106.708	1106.708	6.755	6.718	262.887	262.064	6124	10295	16420	14497	18555	30742	30742	45239	49297	907	1532
2	ERS-QLN	156	S	E	20.255	20.255	731.749	731.749	1.777	2.111	60.305	76.242	778	3340	4116	2846	5899	20372	20372	23217	26271	437	1582
3	QLN-TVC	65	S	E	24.431	24.431	897.050	897.050	1.727	1.600	60.410	72.217	1138	2264	3402	3125	4621	24933	24933	28058	29554	659	1415
4	NCJ-TEN	73	S	NE	8.832	8.832	293.033	293.033	1.294	1.543	51.164	61.540	1286	1400	2887	2911	3356	8218	8218	11129	11574	994	908
5	CAPE-TVC	87	S	NE	9.168	9.168	289.762	289.762	0.972	1.165	39.050	46.841	919	1194	2112	2166	2696	8161	8161	10327	10856	945	1033
6	ERS-ALLP	57	S	E	13.723	13.723	462.501	462.501	1.981	1.602	80.110	63.746	2291	1763	4054	4789	3838	12980	12980	17769	16818	1156	1100
7	ALLP-KYZ	44	S	E	10.956	10.956	352.985	352.985	1.829	1.485	73.996	58.220	2093	1637	3730	4438	3575	9956	9956	14395	13531	1144	1102
8	TCR-GUY	23	S	NE	4.760	4.760	138.251	138.251	0.000	0.000	0.000	0.000	0	0	0	23	23	3939	3939	3962	3962	0	0

SALEM DIVISION:

1	JTJ-SA	120	D	E	23.490	23.490	942.792	942.792	15.722	16.084	746.372	757.351	8033	39737	47770	29686	61858	25968	25968	55653	87826	511	2471
2	SA-ED	59	D	E	29.130	29.130	1109.389	1109.389	9.271	10.609	398.563	451.092	8861	21466	30326	21416	35639	30968	30968	52384	66607	956	2023
3	ED-PTJ	107	D	E	28.418	28.418	1074.538	1074.538	8.414	9.701	396.837	399.564	6973	18666	25639	18497	31534	29896	29896	48393	61429	829	1924
4	ED-TP	137	S	NE	10.824	10.824	284.550	284.550	2.356	2.941	100.402	124.476	2689	6081	8770	6149	10206	8427	8427	14576	18633	1141	2068
5	SA-MTDM	40	S	E	3.481	3.481	81.173	81.173	7.757	4.568	446.436	259.323	25287	1581	26868	37756	9334	2627	2627	40382	11961	3260	346
6	VRI-SA	139	S	NE	2.634	2.634	55.821	55.821	1.249	1.196	51.122	48.252	1827	1105	2933	3461	2691	1812	1812	5274	4504	1463	924
7	DG-KRR	74	S	NE	4.842	4.842	144.014	144.014	1.870	2.165	86.647	98.733	4302	2937	7238	7066	6077	4098	4098	11164	10175	2300	1356
8	CBG-MTP	36	S	NE	2.107	2.107	53.779	53.779	0.107	0.124	1.909	2.563	100	13	113	193	130	1566	1566	1759	1696	935	104

MADURAI DIVISION

1	DG-MDU	66	S	NE	18.649	18.649	662.099	662.099	2.950	2.651	133.003	120.054	5195	3947	9141	9311	7673	18533	18533	27844	26206	1761	1489
2	MEJ-MDU	127	S	NE	13.778	13.778	498.336	498.336	2.275	2.122	105.701	97.035	5147	1858	7004	8408	4867	13880	13880	22289	18747	2262	875
3	MEJ-TN	31	S	NE	4.114	4.114	113.333	113.333	1.888	1.871	73.938	89.998	3782	1317	5099	6404	3882	3259	3259	9662	7141	2003	704
4	MEJ-TEN	29	S	NE	12.240	12.240	389.144	389.144	0.959	1.206	32.930	42.383	1440	245	1684	2719	1842	11444	11444	14183	13286	1501	203
5	TEN-TCN	61	S	NE	3.293	3.293	53.108	53.108	0.000	0.000	0.000	0.000	0	0	0	0	0	8	8	8	8	0	0
6	VPT-SCT	130	S	NE	4.032	4.032	116.097	116.097	0.010	0.020	0.208	0.292	3	7	10	30	39	3705	3705	3735	3744	313	362
7	RMM-MNM	113	S	NE	5.245	5.245	119.999	119.999	0.000	0.000	0.000	0.000	0	0	0	3	3	3948	3948	3951	3951	0	0
8	MNM-MDU	48	S	NE	3.308	3.308	60.363	60.363	0.022	1.014	0.789	0.490	42	0	42	108	60	2060	2060	2168	2119	1909	0
9	DG-TPJ	94	S	NE	13.919	13.919	504.663	504.663	1.758	1.284	74.308	56.219	1634	2311	3945	3977	4134	15712	15712	19689	19846	929	1800
10	MNM-TPJ	151	S	NE	3.229	3.229	73.355	73.355	0.007	0.007	0.301	0.304	7	17	25	45	55	2639	2639	2684	2695	1054	2494

TIRUCHCHIRAPPALLI DIVISION

1	TP-TPJ	4	S	NE	7.508	7.508	209.163	209.163	0.904	1.518	35.542	60.334	790	3226	4016	2017	5130	6027	6027	8044	11157	874	2125
2	TPJ-KMU	120	S	NE	11.898	11.898	220.996	220.996	0.839	0.825	30.363	28.617	924	871	1795	1987	1867	7734	7734	9722	9601	1101	1055
3	VRI-CUPJ	57	S	NE	2.027	2.027	40.084	40.084	0.535	0.553	24.496	25.322	11	1190	1200	761	1968	1209	1209	1970	3178	20	2151
4	PDY-VM	38	S	E	6.236	6.236	116.710	116.710	0.254	0.273	8.430	9.784	137	422	559	514	828	3655	3655	4169	4483	540	1547
5	VM-MV	19	S	NE	0.000	0.000	0.000	0.000	0.107	0.193	4.339	7.895	201	165	365	364	427	0	0	364	427	1875	853
6	TPJ-VM	178	S	NE	18.698	18.698	694.520	694.520	2.886	2.996	118.744	124.484	2953	6504	9457	6723	10408	19648	19648	26372	30056	1023	2171
7	TJ-TVR	54	S	NE	18.606	18.606	344.155	344.155	0.486	0.429	15.438	13.583	182	526	708	778	1074	11311	11311	12090	12385	374	1227
8	VM-KPD	10	S	E	1.058	1.058	14.387	14.387	0.005	0.000	0.274	0.000	16	0	16	25	0	486	486	510	486	3282	0
9	TVR-NCR	30	S	NE	0.883	0.883	16.923	16.923	0.230	0.202	7.839	4.838	354	0	354	643	182	511	511	1154	693	1539	0

SOUTHERN RAILWAY
DENSITY STATEMENT FOR THE YEAR 2008-2009—METRE GAUGE

Serial No.	Name of the Section	Route Kms. of the Section	Whether the Section is Single/Double/Triple	Whether the Section is Electrified	Average Daily No. of Coaching trains run on the Section	Average total Daily No. of Vehicles (In terms of 4-wheelers) Run on the Section	Average Daily No. of Goods trains run on the Section	Average Daily total No. of wagons (In terms of 4-wheelers) Run on the Section	Net tonne Kms. per route Kms. per day	Total (14 + 15)	Gross tonne kilometres (Including weight of engine and Departmental) For goods including proportion of mixed per route kilometre per day	Gross tonne kilometres (Including weight of engine and Departmental) For Coaching including proportion of mixed per route kilometre per day	Gross tonne kilometres (Including weight of engine and Departmental) for coaching and Goods services combined per route kilometre per day	Average net load per Goods train									
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
					Up.	Dn.	Up.	Dn.	Up.	Dn.	Up.	Dn.	Up.	Dn.		Up.	Dn.	Up.	Dn.	Up.	Dn.	Up.	Dn.
PALGHAT DIVISION																							
1	POY-CNV	21	S	NE	3.033	3.033	37.030	37.030	0.000	0.000	0.000	0.000	0	0	0	0	0	830	830	830	830	0	0
2	POY-PGT	58	S	NE	3.467	3.467	49.230	49.230	0.000	0.000	0.000	0.000	0	0	0	0	0	1078	1078	1078	1078	0	0
MADURAI DIVISION																							
1	TEN-TSI	72	S	NE	1.919	1.919	34.532	34.532	0.000	0.000	0.000	0.000	0	0	0	1	1	708	708	710	710	0	0
2	TSI-SCT (VPT-SCT)	8	S	NE	4.047	4.047	72.818	72.818	0.000	0.000	0.000	0.000	0	0	0	2	2	1591	1591	1593	1593	0	0
3	SCT-PUU	49	S	NE	4.008	4.008	72.092	72.092	0.000	0.000	0.000	0.000	0	0	0	0	0	1474	1474	1474	1474	0	0
4	DG-POY	121	S	NE	4.387	4.387	64.962	64.962	0.000	0.000	0.000	0.000	0	0	0	0	0	1381	1381	1382	1382	0	0
5	MDU-BDNK	90	S	NE	0.861	0.861	8.603	8.603	0.000	0.000	0.000	0.000	0	0	0	0	0	206	206	206	206	0	0
SALAM DIVISION																							
1	MTP-UMA	46	S	NE	2.419	2.419	19.377	19.377	0.000	0.000	0.000	0.000	0	0	0	0	1	310	310	310	310	0	0
2	PTJ-CNV	19	S	NE	3.029	3.029	37.030	37.030	0.000	0.000	0.000	0.000	0	0	0	0	0	839	839	839	839	0	0
TIRUCHIRAPPALLI DIVISION																							
1	MV-TV/R	38	S	NE	2.725	2.725	36.184	36.184	0.000	0.000	0.000	0.000	0	0	0	3	3	793	793	797	797	0	0
2	TVR-TTP	26	S	NE	2.890	2.890	36.280	36.280	0.000	0.000	0.000	0.000	0	0	0	2	2	802	802	804	804	0	0
3	TTP-KKDI	123	S	NE	1.994	1.994	26.142	26.142	0.046	0.051	1.098	1.205	0	26	26	17	46	576	576	592	621	1	517

DENSITY STATEMENT FOR ARTERIAL ROUTES AND OTHER ROUTES FOR THE YEAR—2008–2009

(Figures in Thousands)

Routes	NTKMs.		GTKMs.					
	Up	Down	Goods		Coaching		Combined	
			Up	Down	Up	Down	Up	Down
BROAD GAUGE								
Arterial	53,79,303	1,30,48,601	1,36,30,550	2,16,92,644	1,88,97,716	1,88,97,716	3,25,28,266	4,05,90,360
Others	3,30,681	2,13,351	4,55,893	4,28,463	27,44,399	27,44,399	32,00,292	31,72,862
	57,09,984	1,32,61,952	1,40,86,443	2,21,21,107	2,16,42,115	2,16,42,115	3,57,28,558	4,37,63,222
METRE GAUGE								
Arterial	0	0	5	5	29,863	29,863	29,868	29,868
Others	2	1,183	856	2,172	1,66,459	1,66,459	1,67,315	1,68,631
	2	1,183	861	2,177	1,96,322	1,96,322	1,97,183	1,98,499