



दक्षिण रेलवे

SOUTHERN RAILWAY

महाप्रबंधक की वार्षिक रिपोर्ट General Manager's Annual Report

2015-2016

महा प्रबंधक की वार्षिक रिपोर्ट
General Manager's
ANNUAL REPORT

2015—2016

दक्षिण रेलवे/SOUTHERN RAILWAY

प्रधान कार्यालय/Headquarters Office,
सामान्य शाखा/General Branch,
चेन्नै/Chennai-600 003.

जून/June –2018

शक/Saka–1937

सचिव (सांख्यिकी)/The Secretary (Stat.),
रेलवे बोर्ड/Railway Board,
नई दिल्ली/New Delhi.

मैं, 31 मार्च 2016 को समाप्त अवधि के लिए दक्षिण रेलवे प्रणाली के कार्य संबंधी रिपोर्ट इसके साथ अग्रेषित करता हूँ ।
I forward herewith my report on the working of the Southern Railway System for the year ended
31st March 2016.

वशिष्ट जोहरी
VASHISHTA JOHRI
महा प्रबंधक/GENERAL MANAGER

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शब्दावली/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.

परिचालन संबंधी विशिष्टताएं/HIGHLIGHTS OF OPERATIONS

Particulars	Units	2014-15	2015-16
Financial Position —			
Capital-at-Charge	₹ in Crores	12120.91	13880.76
Capital Fund	₹ in Crores	3974.42	4433.24
Gross Earnings	₹ in Crores	7592.34	7605.93
Working expenses (excluding suspense)	₹ in Crores	7033.63	7356.27
Net Earnings	₹ in Crores	-2201.99	-2516.00
Operating Ratio	Percentage	128.98	134.89
Percentage of Net Earnings to Capital-at-charge and investment from Capital Fund.	Percentage	-13.68	-14.13
Passenger Statistics —			
No. of Passengers Originating	In Millions	807	798
No. of Passengers Carried	In Millions	875	854
Passenger Kilometres	In Millions	83730	85396
Earnings from Passenger Carried	₹ In Crores	3719.99	3858.67
Average Earning per Passenger Kilometres	In Paise	44.43	45.27
Average length of Passenger journey	Kilometre	95.68	99.92
Freight Statistics —			
Freight Tonnes Originating	In Millions	39.14	33.37
Freight Tonnes Carried	In Millions	70.36	58.03
Freight Tonne Kilometres	Kilometre	18406	15583
Earnings from Goods Carried	₹ in Crores	2964.94	2756.03
Average Earning per Freight Tonne Kilometres	in Paise	161.09	176.86
Average Lead of Tonne of Goods (Revenue)	Kilometre	262	268
Train Statistics —			
Train Kms. Pass & Goods incl. Dept. EMU, MEMU, DEMU (in thousands)	Kilometre	76542	75820
Gross Earnings per Train Kilometres	₹	991.92	1001.36
Working Expenses per Train Kilometres	₹	918.92	970.23
Net Earnings per Train Kilometres	₹	-287.68	-331.85
Staff —			
No. of Staff as on 31st March	Number	91810	94085
Cost of Staff	₹ In Crores	6871.49	7475.75
Station and Route Kilometrage —			
No. of Stations as on 31st March (Excl. Halts & incl. Block Huts)	Number	608	614
Route Kilometres as on 31st March	Kilometre	5078.74	5074.45

परिचालन संबंधी विशिष्टताएं/HIGHLIGHTS OF OPERATIONS

Details	Units	2014-15	2015-16
Assets (as on 31st March)			
Capital-at-Charge	₹ in Crores	12120.91	13880.76
Total Investment	₹ in Crores	25338.31	29435.40
Route kilometers-Electrified	₹ in Crores	2557.05	2745.36
Total Route kilometers	₹ in Crores	5078.74	5074.45
Running Track kilometers-Electrified	₹ in Crores	4204.04	4573.89
Total Running Track kilometers	Percentage	6949.58	7003.39
Number of stations Excl Halts & Incl. Block Huts.	Percentage	608	614
ROLLING STOCK			
Locomotives- Steam	In Millions	8	8
Diesel	In Millions	399	397
Electric	In Millions	435	450
Coaching Stock-Passenger Carriages	₹ In Crores	6065	6268
E.M.U. Coaches	In Paise	811	822
Rail Cars	Kilometre	0	0
Other Coaching Vehicles	Kilometre	364	357
Wagons	Kilometre	9734	9626
STAFF—			
No. of employees	Number	91810	94085
Cost of Staff	₹ In Crores	6871.49	7475.75
Average cost per employee	₹	7484.47	7945.74
TRANSPORTATION OUTPUT			
Train Kilometres excluding departmental	In Millions	...	...
Passenger and proportion of Mixed	₹ in Crores	52.74	52.52
EMU		8.79	9.18
MEMU		2.62	2.69
DEMU		0.75	1.33
Goods and proportion of Mixed	Kilometre	11.29	10.11
Vehicle and Wagon Kilometres excl dept. and Brakevans			
Vehicle	Kilometres	1963	1995
EMU		86.35	9071
MEMU		22.85	23.36
DEMU		5.44	10.53
Wagon	Kilometre	531	483
VOLUME OF TRAFFIC-PASSENGER TRAFFIC			
No. of Passengers originating	In Millions	807	798
Passenger Kilometre	In Millions	837.30	853.96
Passenger Earnings	₹ In Crores	3719.99	3858.67
Average Load	in Kilometre	95.68	99.92
Average rate per Passenger per	in Kilometre	44.43	45.19

परिचालन संबंधी विशिष्टताएं/HIGHLIGHTS OF OPERATIONS

Details	Units	2014-15	2015-16
GOODS TRAFFIC			
TONNES ORIGINATING (in Millions)			
Revenue earning traffic	₹ in Millions	39.14	33.48
Total traffic	₹ in Millions	39.37	33.59
NET TONNE KMS. (in Millions)			
Revenue earning traffic	₹ in Crores	184.06	155.83
Total traffic	₹ in Crores	184.29	155.83
Earnings from Goods carried excluding wharfage and demurrage charges	₹ in Crores	2964.94	2756.03
Average Lead -Revenue	Kilometre	262	269
Average rate per tonne.. .. .	In Paise	161.09	176.86
QUANTITY OF FUEL CONSUMED BY LOCOMOTIVES			
Coal	In Millions	0.03	0.01
Diesel oil	In Kilometre	1940.18	1948.69
STORES PURCHASED	₹ In Crores		
Indigenous (Excluding imported Direct)		2910.81	2022.89
Total		3434.22	2494.51
OPERATING REVENUE & EXPENDITURE	₹ In Crores		
Revenue-Gross Receipts		7592.34	7605.93
Working expenses including depreciation etc., and		9799.98	10214.82
Miscellaneous expenses			
Net Revenue Receipts.. .. .		-2201.99	-2516.00
Percentage of Net Revenue Receipts to the Capital-at-Charge and investment from Capital Fund		-13.68	-14.13
Operating Ratio	Percentage	128.98	134.89
Dividend to General Revenues		562.34	519.65
Surplus (+) Deficit(-)		-2590.62	-2952.50

No. of Staff As on March 2016

(Figures in 000's	92.59
OPEN LINE CONSTRUCTION	1.50
TOTAL	94.09

I. सामान्य समीक्षा/GENERAL REVIEW

General Economic Condition of the Zone

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

Tamil Nadu State Industrial Development Corpn. Ltd.

Sl. No.	Industrial Projects relating to TIDCO	Nos.	Enclosures
1.	No. of Projects completed and commissioned during 2015-16.	1	..
2.	No. of Projects under implementation.	12	List enclosed at Annex.

Project under Implementation

- 1 LNG Import Terminal Project in Thiruvallur District
- 2 TRIL Infopark Limited at Taramani
- 3 TICEL Bio Park-III Project in Coimbatore District
- 4 Polymer Industries Park Project in Tiruvallur District
- 5 Special Economic Zone/Special Investment Region project in Krishnagiri Districts.
- 6 Petroleum, Chemicals and Petrochemicals Investment Region (PCPIR) in Cuddalore and Nagapattinam District
- 7 Aerospace Advanced Computing and Design Engineering Centre Project in Kancheepuram District.
- 8 Heavy Engineering Components Hub Project in Tiruvallur District.
- 9 National Investrial and Manufacturing Zone Project in Ramanathapuram District.
- 10 Ponneri Industrial Node Development Project in Chennai
- 11 Integrated Food Irradiation and Services Facility Project in Kancheepuram District.

Adverting to the reference cited above, the following details of Irrigation and Power Project completed and commissioned during 2015-16 is furnished as below :—

Sl.No.	Industrial Projects	Capacity	Commissioned on
1.	Periyar Vaigai-IV small Hydro 2x1.25 MW Units Synchronised on Electric Project	Unit—I	01/03/2016
	Location : Periyar	Unit—II	29/02/2016

S. No.	Name of Crop	2015-16 (IVth Advance Estimate)		2016-17 (Target)	
		Area in (Hac.)	Production in (Tonnes)	Area in (Hac.)	Production in (Tonnes)
1.	Paddy	20,37,490	130,46,700 (Paddy) 86,97,820 (Rice)	20,00,000	139,50,000 (Paddy) 93,00,000 (Rice)
2.	Pulses	9,26,570	5,73,160	11,00,000	9,80,000
3.	Groundnut	3,51,460	8,81,820	5,10,000	9,21,300
4.	Oilseeds (including groundnut)	4,12,220	9,19,050	6,20,000	9,80,800
5.	Sugarcane Cotton	2,57,260	264,97,370	3,25,000	349,99,600
6.	Cotton	1,42,920	2,170	1,80,000	3,580
7.	Choiam	3,51,570	6,34,970	3,64,200	6,78,600
8.	Maize	3,63,910	27,02,670	4,02,200	31,55,900
9.	Cumbu	56,830	1,48,520	65,500	1,99,330
10.	Ragi	92,810	2,66,850	1,03,400	3,58,900

Further, it's informed that the area and production of dry chillies and tobacco are not available with this department. It may be available with Department of Horticulture and Plantation Crops.

Details of quantity of mineral produced and their uses during the year 2015-16. KERALA

Sl. No.	Name of mineral	Production	Uses
Major Minerals			
1.	China clay	585965	In paper industry (coating as well as filler material), pharmaceuticals, ceramics etc.
2.	Bauxite/Laterite	1690170	Cement industry, Chemical Industry etc.
3.	Ilmenite	54798	Ore of Titanium, Synthetic Rutile, in Paint Industry etc.
4.	Rutile	2636	Ore of Titanium, in Paint Industry.
5.	Zircon	6267	Ceramic Industry (Zir flor).
6.	Sillimanite	7205	Granular Sillimanite (refractory purpose).
7.	Leucosene	56	Ore of Titanium
8.	Silica Sand	70,447	Glass, Refractory, Cast Iron & Mould Industries, etc.
9.	Lime shell	34118	Cement ilndustry (white cement), Chemical Industry.
10.	Limestone	526451	Cement Industry
11.	Quartz	-	Glass Industry
12.	Graphite	630	Refractory, Crucibles, Pencil leads, Moderator in Atomic Reactors.

Minor Minerals

1.	Granite Building Stone.	29,875,337	Construction sector
2.	Granite Dimenstion Stone.	CBM 1284	Ornamental purpose (also for export).
3.	Laterite Building Stone.	6,71,411	Construction sector
4.	River sand	71,076	Construction sector
5.	Ordinary sand	1,331,120	Construction sector
6.	Lime shell	3000	Lime Industry
7.	Ordinary earth	5,508,414	Construction sector
8.	Brick clay	2,60,249	Brick, Tile Industry

Area and Production of Crops in Kerala

Name of Crops Pulses/Oil Seeds	2014-15		2015-16		Remarks
	Area in (Hac.)	Production in (Tonnes)	Area in (Hac.)	Production in (Tonnes)	
1. Paddy	198159	562092*			* Production in Rice
2. Tur/Redgram	1476	1903			
3. Other than Tur/Redgram	2125	1506			
4. Groundnuts	480	692			
5. Sesamum	262	89,403			
6. Soyabean	1	1.4			* Production in Million nuts.
7. Coconut	793856	5947 *			
8. Dry Chillies	NA	NA			
9. Sugarcane	1517.06	14853			
10. Tobacco	13	21			
11. Cotton	170	279*			
12. Urdam (Maize)	67	69			
13. Cumbu	NA	N. A.			* Production in No. of bales of 170 kg. each
14. Ragi	79	78			

* Source : Department of Economics and Statistics, Kerala

Power Projects in Kerala**(i) Power project Commissioned during 2015-16**

Sl. No.	Name of Project	Capacity (MW)
i) Hydro Electricity		
1.	Chimmony Small Hydro project ..	2.5
2.	Adyanpara Small Hydro project ..	3.5
3.	Barapole Small Hydro project ..	15
WIND ELCTRICITY		
1.	Project of Ahalya Alternate Energy Ltd.	8.4
SOLAR ELCTRICITY		
1.	CIAL solar project ..	12
2.	Kanchikode solar project ..	1
3.	KSEB Distributed solar projects (Total)	0.156
	Total	42.5560

(ii) PROJECT UNDER CONSTRUCTION—HYDRO ELCTRICITY

1.	Chathankottunada-stage II Small Hydro project	6
2.	Kakkayam Small Hydro project ..	3
3.	Extension to Pallivasal Hydro station ..	60
4.	Perumthenaruvi Small Hydro project ..	6
5.	Poringalkutthu Small Hydro project ..	24
6.	Thottiar Hydro project ..	40
7.	Vellathooval Small Hydro project ..	3.6
8.	Boothathan kettu Small Hydro project..	7.5

SOLAR PROJECT

1.	Solar projects of KSEBL (Total) ..	3,4815
2.	Solar park at Kasargod fist stage ..	50

(iii) Project under Tendering stage HYDRO ELECTRICITY

1.	Karappuzha Small Hydro project ..	0.5
2.	Pazhassisagar Small Hydro project ..	15
3.	Chembukadav Stage-III Hydro project..	6
4.	Peruvannamuzhi Small Hydro project ..	6
5.	Upper Kallar Small Hydro project ..	2
6.	Peechad Small Hydro project ..	3
7.	Chinnar Small Hydro project ..	24
8.	Ladrum Small Hydro project ..	3.5
9.	Olikkal Small Hydro project ..	5
10.	Poovaramthode Small Hydro project ..	3
11.	Marlpuzha Small Hydro project ..	6
12.	Pampar Small Hydro project ..	40
13.	Vakkallar Small Hydro project ..	24
14.	Achencoil Hydro project ..	30
15.	Athirappalli Hydro project ..	163
16.	Upper sengulam stage I Small Hydro project	24

SOLAR ELECTRICITY

	Solar projects of KSEBL (Total) ..	15.4
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(iv) Project Proposals

1.	Kannankuzhy Small Hydro project ..	7
2.	Marmala Small Hydro project ..	7
3.	Puyan kutty Small Hydro project ..	210
4.	Vythiri Hydro project ..	60
5.	Western Kallar Small Hydro project ..	5
6.	Valanthodu Small Hydro project ..	7.5
7.	Koodam Small Hydro project ..	5
8.	Devlar Small Hydro project ..	24
9.	Thommankuthu Small Hydro project ..	1.5
10.	Uppersengulam stage 2 Small Hydro project	24
11.	Mangalam dam toe Small Hydro project	0.3
12.	Kanthanpara Hydro project ..	66
13.	Pasukkadavu Small Hydro project ..	2

WIND PROJECT

1.	NHPC wind project at Nallasingam & Kottathara	82
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WIND PROJECT

1	West Kallada by NHPC ..	50
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(C) Industries projects (with Pamphlets if any issued)

Details of Industries (Major as well as Medium)

i. Completed during 2016-17

There are no completed projects from April 2016 to 30th June 2016

ii. Under implementation and anticipated production

30-06-2016

Sl. No	Name of Project	Location (District)	Investment of KSIDC (Rs. Lakhs)		Optimum Turnover (Rs. lakhs)
			Share	Loan	
1	Hill County Hotels & Resorts Pvt. Ltd.	TVC		550.00	1411.62
2	Kairali Structural Fabrication Pvt. Ltd.	ERS		650.00	4156.19
3	Kumarakom Aqua Serene Pvt. Ltd. (Exp)	KTYM		794.90	867.80
4	Malabar Ispat Pvt. Ltd.	KSD		940.00	15360.00
5	Solar Offset printers Pvt. Ltd. (Exp.)	TVC		1250.00	7425.71
6	M-Star Hotels Guruvayoor LLP	ERS		700.00	777.63
7	Sunpower Cement Company Pvt. Ltd.	PGT		967.00	6809.40
8	M/s. VKC Footwear International Pvt. Ltd.	CLT		1025.00	3801.60
9	Kerala Engineers Holdings Pvt. Ltd.	ALLP		200.00	840.00
10	M/s. Kannur International Airport	CAN	1000.00		23000.00
11	Ullattil Hotels & Spa Pvt. Ltd.	ALLP		1600.00	2436.22
12	Indriya Hotels & Resorts Pvt. Ltd.	IDUKKI		200.00	625.46
13	CGR Metalloys Pvt.Ltd. Pvt. Ltd.	ERS		360.00	78960.00
14	Source One Exports Pvt. Ltd.	ALLP		450.00	375.21
Total (14 Projects)			1000.00	9686.90	146846.84

iii. Proposals if any for new industries to be taken and

Under Consideration/Approched for loan assistance	Location (District)	Project Cost (Rs. Lakhs)
Max International Footcare	Kozhikode	400.00
Panoramic Getaway	Idukki	1900.00
Contour Holiday Resorts	Kottayam	267.00
Pulikkal Medical Foundation	Emakulam	9000.00
Imost Academy (India) Pvt. Ltd., Kochi	Emakulam	2750.00
Hill Valley Rubbers Pvt. Ltd.	Idukki	1850.00

iv. Details about owned managed industries
Nil**2. Railway Kilometrage**

The open line kilometrage as on 31st March 2016

Gauge	Route Kilometrage			Track Kilometrage including Sidings Kilometrage
	Single Line	Double/Triplo/quaduple lines	Total	
Broad Gauge	2942.71	1723.53	4666.24	8212.17
Metre Gauge	408.21	0.00	408.21	434.68
Narrow Gauge	0.00	0.00	0.00	0.00
Total	3350.92	1723.53	5074.45	8646.85

Note.—

Out of 408 km. of MG Route km, 362 km. are under various stages of gauge conversion.

3. General Review of working for the year 2015-2016 and 2014-2015 are as follows :—

	2014-15	2015-16
Gross Earnings (in crores of rupees).	7,592.34	7,605.93
Working Expenses (excl. Suspense) (in crores of rupees).	7,033.63	7,356.27
Number of passengers carried.. (in millions).	875.13	854.62
Tonnes originating (Revenue) .. (in millions).	39.14	33.37
Tonnes Carried (System) (Revenue) (in millions).	70.36	58.03
Freight tonne kms. (Revenue) .. (in millions).	18,406.00	15,583.00
Goods Train kms. (in millions).. (in millions).	11.29	10.11
Train Engine kms. (Goods and prop.) (in millions).	21.41	19.35

4. PLANNING BRANCH-EFFICIENCY Cell

1.0 WORK STUDIED/CRASH STUDIES

1.1 The Planning Branch is conducting work studies and Crash studies to identify the surplus posts in various Field Units. The recommendations of work study are made based on the yard stick, Bench Mark and as per the need on various activities duly considering the Technological Improvements and outsourced activities. The Railway Board is advising the Annual Target for surrender of surplus posts through work study. The surplus posts Surrendered are credited to the Vacancy Bank as per Railway Board norms.

- During the year, 2015-16, 54 Numbers of Work Studies were completed. The total numbers of surplus posts identified were 1637 with a projected savings of Rs. 53.17 cr. per annum (Approximately)

- The Railway Board Target of surrendering 702 surplus posts was achieved during the year 2015-16. The Annual Financial savings on account of the above surrender is ₹. 22.08 cr. per annum (Approximately)

- The Proposal for creation of posts is also routed through Planning Branch to monitor the surrendering of surplus posts identified through Work Studies.

1.0 SOUTHERN RAILWAY MONTHLY GAZETTE PUBLICATION:-

The Planning Branch is compiling the details such as results of Selection to various posts, Staff due to Retire, Change in Employee's Name, Missing Pass PTO and Cash Value Books etc., for publishing in Southern Railway Monthly Gazette. The Monthly Gazette is also distributed to all Field Units.

2.0 SALIENT FEATURES-'e-PUBLICATION

An Annual e- Publication titled 'SALIENT FEATURES' is uploaded in the Southern Railway Rail Net Home Page comprising the details about the activities and achievements of all the Departments.

3.0 OTHER COORDINATION WORKS:-

- The Planning Branch is compiling the details of Work load indices of various Divisions and submits to Railway Board every year.
- The Data for Award of 'Pandit Govind Ballabh Pant Shield' by Railway Board, is also compiled and submitted to Railway Board every year for identifying the best Zonal Railway based on its performance.
- The Planning Branch is coordinating with all Departments to adjudge the best performing Division/Units for conferring Efficiency Shields during Railway Week Celebrations.

5. STATISTICAL ORGANISATION

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

Collection of data from source points, systematic compilation and generating statements as per Railway Board/Domestic periodical requirement in form of various statements is the prime role of the organization. Analysis and interpretation of various statistical parameters are also made.

- In order to assist in increasing the revenue preposition.
- Assist in eliminating the waste by expenditure monitoring ; and
- Enhancing efficiency with economy.

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

Commercial Statistics :

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

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

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

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

At present checking of RRs are done 'on line'.

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

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

Operating Statistics :

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

- ⇒ Monthly Performance Evaluation Report,
- ⇒ Passenger Train Performance (St. No. 1B)
- ⇒ Goods Train Performance (St. No. 2)
- ⇒ Rolling Stock (Loco motive) Performance (St. No. 4A)
- ⇒ Rolling Stock (Carriage & Wagon) Performance (St. No. 4B)
- ⇒ Fuel & Power Statistics (St. No. 5A)
- ⇒ Lubricating Oil Statistics (St. No. 5B)
- ⇒ EMU/MEMU/DEMU Train Performance (St. No. 8)

Efficiency indices like NTKM per Engine Hour, Percentage of Train Engine Hours to Total Engine Hours, Engine Kilometres per Engine day in use etc. are compiled and sent to Board every month.

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

Around 45 Annual Statistical Statements.—covering Financial, Operating, Commercial and Personnel statistics are prepared and sent to Railway Board to meet requirements at various levels. They are published by Railway Board through in the book of Annual Statistical Statements, published every year and the book is also a part of the Budgetary Documents.

A hand book (Compendium) – Pocket Book of Financial Results and Important Statistical Highlights.— exhibiting data for five years at a stretch on important statistical parameters of Southern Railway, with graphical representation, is published to help the administration for information, review and in decision-making. It helps in manpower planning, assets utilization and to devise marketing strategies for better performance. It is also available in the Railnet Statistical branch web site.

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

Statistical Branch Web Page.—

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

Statistical Inspection.—

An Inspectorial section consisting of Senior Statistical Inspectors conduct periodical test checks on various statistical returns at source points of Stations, crew Booking Centres, Goods Sheds etc; Regular test checks on Advance Tri Monthly Statement of Gross Earnings to ensure correct compilation of vital statistics. The errors noticed during inspection were notified to concerned staff for avoidance in future. Accountal procedures pertaining to various newly introduced mode of booking like ATVM, COTM and mobile bookings were also taken care of in Advance Trimonthly Statement of Gross earnings.

Traffic Costing Cell of this Railway continued to do :

- 1) Cost Analysis of Coaching Services.
- 2) Cost Analysis of Freight Services.
- 3) Study on the Economics of EMU Services.
- 4) Analysis of Incremental Cost for Goods services
- 5) Analysis of the Shunting Engine Hourly Costs.

The reports were sent to Railway Board to enable preparation of End results booklets, containing the Unit costs of Coaching and Goods services.

Data Processing Centre —

Southern Railway Headquarters IT centre is located in Moore Market Complex, 8th floor, Chennai. The main activities of this Office include development of new software, maintenance of database, servers, ROLIN network for HQ, MAS division & PER area, maintenance of network/software support for divisions and workshops in Southern Railway. The following applications are processed at HQ/divisional levels and other areas of Southern Railway with necessary software support :—

1. AFRES (Advanced Finance Railway Earning & Expenditure System)
2. FMIS (Financial Management System)
3. PRIME (Payroll and related Independent module)
(General and workshop Payroll System)
4. WGR (Workshop General Register)
(General and workshop Payroll System)
5. FAS (Freight Accounting System)
6. PAS (Passenger Accounting System)
7. OSS (Operating Statistics System)
8. Maintenance of ORACLE 8i database for PRIME, AFRES of HQ, MAS, PER, MMIS (PL)
9. Infrastructure Section
1. **AFRES—Advanced Finance and Railway Earnings & Expenditure System.**

This Oracle based integrated system, provides total solution for automation of Accounts Department in Railways. The System covers.

- ❖ **Internal Check**—Establishment / Expenditure bills registration, audit and payment.
- ❖ **Linked with PRIME** for employee payments.—
- ❖ **Suspense**—Establishments and Expenditure suspense monitoring and generation of suspense registers.
- ❖ **Books**—Cheques generation, Cheques & Bank Scroll reconciliation of bank remittance, Book closure (Cash book-I & Cash book-II and account current), generation of revenue and capital schedules. New reports developed as per the user's request.
- ❖ **PF, Pension, New Pension Scheme—**
 - ❖ Maintains employee PF accounts- Accountal of debits & Credit, interest calculation, settlement and reconciliation.

❖ **NPS**—Maintains employee Pension Fund Account—debts & credits and Government contribution, reconciliation, statutory reports and data transfer to NSDL. Monthly payment of pension for NPS subscribers.

❖ **PENSION**—Preparation of Pension Payment Orders. Settlement of retirement benefits, Reconciliation, etc.

❖ **Traffic Accounts**—Station Balance Sheet—for Goods, Coaching and Misc. receipts.

❖ **Cash**—(a) Revenue Earnings from Stations.

(b) Miscellaneous cash receipts (MCR).

❖ **Pay-Paymaster** Generation of all bills and payments made to staff, Suppliers and Contractors. through NEFT/RTGS.

❖ **Budget**—This Module has been developed in-house in AFRES and various reports for budget estimate, August Review, Revised Estimate and Final Modifications are taken by HQ, Budget Section consolidating the data given by various units of Southern Railway and sending it to Railway Board. New forms and reports developed as per the user's request.

2. FMIS— Financial Management Information System.

This **ORACLE** based application software is used for consolidation of Account current processing at Head quarters and generation of revenue and capital schedules for all divisions, workshops and Zonal Railway.

3. PRIME Payroll and Related Independent Modules-

(General and Workshop Payroll Systems)

This **Oracle** based software application is in use for

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

4. Workshop General Register (WGR) & Labour Summary—

(General and workshop Pay roll System)

ORACLE based application software is being used for :

A) Work Shop Incentive :

- ❖ co-ordination with users for data entry
- ❖ Providing validity listing for checking
- ❖ monitoring employee master
- ❖ ARD done on validity listing.
- ❖ Generation of monthly reports.
- ❖ Generation of SRF 71 report for ratification of zero work orders for the purpose of WGR final process.

B) WGR Module :

- ❖ Porting stores data from STORES module
- ❖ Porting Workshop Incentive Bonus data after ratification of Zero Work Orders
- ❖ Porting WGR supplementary data from ftp sites and pendrives.
- ❖ Porting Labour summary data

(WGR processing is being done combining all the above four data.)

- ❖ Generation of monthly reports.

C) Labour Summary :

- ❖ Inputs received from users via pendrives, ftp sites.
- ❖ coordinating with users for data entry of tally sheets.
- ❖ Monthly updation of Average Hourly Rates for all workshops.
- ❖ Periodical updation of oncost details.
- ❖ Updation of paid/unpaid holidays for workshops.
- ❖ Generation of monthly reports

5. FAS – Freight Accounting System—

The details of the work done by the Goods Section at SRITC/ MMC/MAS.

ORACLE based application software is being used for

- ❖ Data captured from FOIS terminal available at Traffic Accounts and necessary modifications are carried out and used for ORACLE processing.
- ❖ 7A reports are processed and generated for every 10-days, i.e. thrice in a month separately and are forwarded to Railway Board through Statistical Branch. Similarly for the consolidated monthly data, 7A reports are processed, generated and forwarded to Railway Board through Statistical Branch.
- ❖ Generation of other allied reports like Analysis, ST8, ST10, originating Statistics, Commodity wise statistics etc.
- ❖ Transfer of data as per Railway Board Schedule to Centralized Apportionment System through Traffic Accounts.

6. PAS – Passenger Accounting System–

❖ Development and maintenance of PAS (Passenger Accounting System) application.

- ❖ PRS/UTS data validation, processing, consolidation
- ❖ PCT data validation and consolidation
- ❖ Generation of Summary reports
- ❖ Generation of Apportionment reports

❖ Ad-hoc MIS reports requirements from various stake holders viz. CCm, FA & CAO/T, S&AO, Sr. DCMs and other users with reference to

- ❖ RTI queries
- ❖ Parliament questions
- ❖ Department decisions

❖ Maintenance of legacy data pertaining to Passenger to Passenger Earnings and Traffic from the year 2009 to till date.

❖ Processing of Parcel Way Bill Annual MIS Report

❖ Development of web-site for Passenger Accounting System using MySql data base and PHP as front end tool.

The PAS application has been customized and implemented for SWR, based on the request from Dy. FA&CAO/T/UBL. This work involves.

- ❖ Maintenance of application
- ❖ Support of generation of annual summary reports and other MIS statements
- ❖ Remote support for DB maintenance and ad-hoc queries.

7. Operating Statistics System (OSS)

This is **ORACLE** based software application which caters for automation of Engine Mileage Statistics for generating various MIS reports for Statistical Department.

8. Database Administration Tasks done During 2015-16

1. Maintenance of following 6 databases in Sun Fire V 480 server.

- (a) AFRESMAS–AFRES of Madras Division.
- (b) AFRESSUN–AFRES of Headquarters Division.
- (c) PRIMESUN–PRIME of Headquarters Division.
- (d) PRIMERPF–PRIME of RPF.
- (e) PRIMETA–PRIME of Traffic Accounts and RE.
- (f) EDPAPPS–Passenger Accounting System and PASS of SRITC/MAS.

2. Maintenance of following 7 databases in HCL IGL 4700 PS Server.

- (a) EMIS–Electrical management Information System of Chennai Division.
- (b) IMMS–Stores
- (c) PRIMEEDO–PRIME of All Artizan Units of LOCO, Carriage & EWSS/AJJ.
- (d) VID–PRIME of GPR Units of PER, EWSS/AJJ, Electrical, MSD, PRESS Royapuram & S&T and MGMT (Old COBOL Data)
- (e) AFRESPER–AFRES of Perambur.
- (f) WORKSHOP–PRIME of All Artizan Units of electrical, MSD PRESS Royapuram & S&T.
- (g) SRITCAPP–Statistical Branch.

Maintenance of Offline backup in Tape Media of above 13 Databases.

9. Infrastructure Sections

1. Replacement of Mid Range Servers, External Storage, SAN switchs were proposed for procurement under allotment of LAW 15-16 of 98, 99 and 100 for which P.O. is to be released.

2. Replacement of hardware under ROLIN (i.e.) Network Switch and related components that have outlived their codal life were proposed for inclusion in PWP of 2012-2013. The same was approved vide LAW of 62 & 78 and funds were allotted. This minimum allotment of funds made was not sufficient to carry out the work.

Phase II proposal for Network switches was sanctioned vide LAW No. 70 of 15-16, for which minimum funds were allotted which was not sufficient to carry out the work.

Other Activities :

- Budget–Conduct Budgetary Reviews pertaining to Demand No. 16–Plan Head 17 (Computerization) and Demand No. 3 pertaining to Sr. EDPM/MAS (03-243) and Submission of Appropriation Account (Demand No. 16–Plan Head 17 for FA&CAO/MAS and other allied works.

- Support for other divisions and workshops for

- Processing of Payroll.

- Maintenance of Payroll related Software and database.

- Maintenance of ROLIN Internet network used for oracle based applications which is managed by in-house team of this office.

- Technical Clearance accorded for software and hardware procurements, licensing, etc. by all departments of Southern Railway in HQRS, Chennai Division, PER, COS/PER & all officers under the control of CAO/CN/MS, as per SOP (5) E of Misc. Matters Part-D.

- Computer Learning Centre

- In house training imparted to staff from other user departments in various software programs.

6. Public Grievances Cell

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

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

3. Details about the number of complaints received and dealt with in respect of major categories during 2015-16 as compared to those received during 2014-15 is given below :—

Sl. No.	Classification	OB	Number of Complaints					
			2014-15			2015-16		
			Received	Disposed	Balance	Received	Disposed	Balance
1	Behaviour of staff	1	136	134	3	593	536	60
2	Lack of amenities/ Unsatisfactory Maintenance of Amenities at Stations/ Trains.	3	445	432	16	3008	2963	61
3	Late running of trains	0	117	117	0	452	447	5
4	Coaching reservations and other than reservations	4	436	427	13	1604	1512	105
5	Catering Arrangements	2	71	71	2	333	322	13
6	Miscellaneous/ Suggestions	3	431	431	3	1814	1799	18

4. Number of complaints received, disposed of and pending during 2015-16 as compared to the previous year is as follows :—

Year	Opening Balance	Receipt	Total	Disposed	Pending
2014-15 ..	13	1636	1649	1612	37
2015-16 ..	37	7804	7841	7579	262

5. During 2015-16 a total number of 7804 complaints other than suggestions were registered as compared to 1636 complaints in 2014-15.

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

Note.—Due to Introduction of complaints from various sources such as Web, Mobile, App, SMs based on COMs Portal as well as Manual complaints, there has been sharp increase in the Public Grievances. Therefore high variation in the number of complaints registered.

7. Public Relations performance during the year 2015-16 (From 1st April to 31st March 2016)

Sl. No.	Activity	Indicate Number(s)	Remarks If any
1.	Press Releases Issued	2115	..
2.	Press Releases Published	2115	..
3.	Press Conferences	72	..
4.	Press Tours Conducted	Nil	..
5.	Publicity Brochures brought out	7	..
6.	Participation in Exhibitions	5	..
7.	Advertisements released		
	(a) Display	10	..
	(b) Tender	1302	..
	(c) Others	Nil	..
8.	Radio/TV Spots Produced	Nil	..
9.	Radio/TV Spots Broadcast/ Telecast	Nil	..

1. All India Industrial, Agricultural, Educational and Cultural Exhibition at Trichur.

2. All India Tourist and Industrial Fair at Chennai.

3. Participation in the Government Polytechnic College Exhibition at Kasargod.

4. Thatva Exhibition at NIT, Calicut.

5. Passenger and Customer Facilitation Fortnight Exhibition at Chennai.

Functions/Important events (April 2015 – March 2016)

- 22-4-2015 Chennai Egmore Railway Station - Inauguration of Paperless Unreserved Ticketing through Mobile Application on Chennai Egmore - Tambaram suburban section of Southern Railway.
- 26-5-2015 Commencement of Passenger and Customer Facilitation Fortnight (26-05-2015 – 09-06-2015).
- 21-6-2015 Ernakulam Jn. – Flagging off of Partially Air-Conditioned Diesel Train Set Special Services.
- 21-6-2015 Changanassery Railway Station - Laying of foundation stone for the new station building.
- 07-7-2015 Jolarpettai - Inauguration of subway in lieu of level crossing No. 87.
- 07-2-2016 East Tambaram Railway Colony Ground - Laying of foundation stone for the 3rd BG line between Tambaram – Chengalpattu. Laying of foundation stone for the new BG line between Chinnasalem – Kallakurichi at Kallakurichi through video conferencing. Inauguration of escalator at Tiruchchirappalli railway station through video conferencing etc.
- 12-2-2016 Thiruvananthapuram Central railway station – Inauguration of LED video Walls for display of train arrival/departure information & other programmes at Thiruvananthapuram Central railway station, Laying of foundation stone for second entry to Kollam railway station, dedication to the Nation of newly commissioned Solid State Interlocking at Ernakulam Jn., Dedication of the newly converted BG section between Palakkad–Pollachi to the Nation, etc.
- 01-3-2016 Walajabad – Inauguration of Rail Auto Hub at Walajabad through video conferencing.

8. RAILWAY USERS' COMMITTEE

Various Consultative Committee Bodies, Viz.. Zonal Railway Users' Consultative Committee. Divisional Railway Users' Consultative Committee, Sub-urban Railway Users' Consultative Committee and Station Users' Consultative Committee provide opportunities for Rail Users to interact with the administration. The issues addressed are broadly related of passenger amenities construction of new lines, gauge conversion works, etc.

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

During the year 2015-16, one meeting of ZRUCC held at Chennai on 06-01-2016.

During the year 2015-16, two meetings of DRUCC at Chennai, two meetings at Tiruchchirappalli and three meetings at Madurai were held. Two meetings at Palakkad, three meetings at Thiruvananthapuram and two meetings at Salem were conducted.

Divisions	No. of Meetings conducted during 2015-16
Chennai	2
Tiruchchirappalli	2
Madurai	3
Salem	2
Palakkad	2
Thiruvananthapuram	3

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9. VIGILANCE ORGANIZATION

The functions of the Vigilance Department comprise of Preventive, Investigative and Educative in the sphere of anti-corruption activities. Regular Seminars and Workshops were conducted by Vigilance Department to update the knowledge of the employees regarding the lapses in the system and also latest rules in force and to train them to be effective in discharge of their duties. Preventive checks are conducted to identify weak spots in the system and remedial actions are suggested to avoid revenue leakage. The vigilance also monitor the DAR cases arising out of vigilance / SPE investigation. The complaints from President's Office & PMO references, CA-iii references, CVC's referred are dealt on priority. Source information on alleged irregularities are collected from various quarters and surprise checks are organized to nab the offenders indulged in irregularities. A close liaison is maintained with CVC & CBI. Preventive checks are conducted regularly on officials of doubtful integrity and those who are on "Agreed" and "Secret" lists.

2. Handling of Complaints

Detailed investigations are undertaken in all cases of genuine complaints, which are having vigilance angle. During the year 2015 - 2016, 164 complaints were taken up for investigation, 160 complaints (Gaz. 54 & Non. gaz. 106) have been investigated and the results thereof are given below :—

	Gazetted	Non-gazetted
No. of major penalty proceedings initiated.	4	1
No. of minor penalty proceedings initiated.	-	31

3. Preventive Checks:

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

During the year 2015 - 2016, 3,851 preventive checks were conducted by the Vigilance Organization. Department-wise breakup of checks done is furnished below:-

	No. of checks
Accounts	45
Civil Engineering	36
Electrical Engineering	62
Mechanical Engineering.. .. .	93
Medical	41
Personnel	164
Security	7
Signal & Tele-communication	40
Stores	96
Commercial/Operating.. .. .	3,259
Others	8
Total	3,851

A total number of 9 successful 'Decoy Checks' were conducted over stations, trains, circulating areas of major stations etc. during the year 2015 - 2016 to curb down the malpractices.

In order to augment the checks made in mass contact areas, the vigilance organization is also conducting checks on tout activities. During the last financial year, vigilance conducted 553 checks and 101 touts/anti-social elements were apprehended and prosecuted. Tickets to the value of Rs.1,83,298- were seized and an amount of Rs. 62,650/- was collected as fine.

In addition to the above, 1178 checks on unauthorised vendors were conducted and 1178 unauthorised vendors were apprehended. Rs. 6,15,635/- was realized as fine.

4. Punitive Action taken during the year 2015 - 2016

The Inquiry Organization functioning under SDGM & CVO has completed 55 departmental inquiries during the year 2015 - 2016 and Inquiry Reports were sent to the concerned disciplinary authorities for necessary DAR action.

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

Penalty	Gazetted	Non-gazetted	Total
MAJOR	10	62	72
MINOR	8	604	612

5. Earnings accrued to the Railway through vigilance checks during the year 2015 - 2016 was Rs. 4,65,30,552/-

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

Sl. No.	Details of earnings	Amount (₹)
1	Earnings from without ticket passengers	4,67,485
2	Earnings on transfer of tickets	36,000
3	Earnings from un-booked luggage/parcels	27,639
4	Earnings from undercharges realized	2,11,93,562
5	Demurrage/Wharfage charge	27,404
6	Earnings from excess/shortfall in Govt. cash	48,469
7	Other traffic recoveries	14,09,383
8	Leave Account / Establishment matter	8,47,918
9	Technical recoveries	2,20,98,382
10	Amount realized as fine by Court of Law	3,74,310
	Total	4,65,30,552

6. System Improvements suggested by Vigilance:

- 6.1 As a part of preventive vigilance, the following System Improvements were suggested during the year 2015-16 based on preventive checks and complaint investigations.
- 6.2 A check has been conducted on the conducting of written examination by RRB/MAS in one of the centre and some of the candidates have expressed their anguish to the OICs for having not Superscribed the instruction in the Call letter that candidate must possess the Original Photo ID card and produced to the Invigilators at the time of examination. **A system improvement has been suggested to RRB/MAS, RRB/TVC & RRC/MAS to "Superscribe" in the call letter, so as to attract the attention of the candidate at one look.**
- 6.3 An investigation carried out on the aspect of Misuse of SCL granted to Trade Union members DEC/BEC and observed that there is no mechanism in place to ensure that the SCL is utilized for the purpose for which it is sanctioned. Thus a System Improvement is suggested to **obtain Certification from the concerned Trade Union that SCL sanction has been utilized for the purpose for which it is sanctioned and all members to whom SCL is sanctioned have attending the purpose for which it is sanctioned.**
- 6.4 A Check was conducted on the aspect of Contract Management of Comprehensive Cleaning Contract at SA Division and it is observed that the Contractor was not supplying the total laborers as per the agreement and engaging the same laborers in different shifts and made to work continuously. Thus, a System Improvement has been suggested **for including conditional clause in the agreement that the labourers from one shift should not be engaged by the Contractor in the subsequent shifts. Sufficient number of labourers to be provided as indicated in the agreement.**
- 6.5 Corrective action was advised on failure to impose penalty by the department to the contractor that all penalties shall be recorded in the measurement book with reference in future contract.
- 6.6 During preventive checks conducted at catering stalls, it was brought to light that police certificate for the employees of the licensees were issued by Railway Police having jurisdiction over the place of the stall. However, the employees belong to various districts in Tamil Nadu as well as other states. Under such circumstances, police certificate from the Railway Police of the station will not suffice to check the antecedents of the employees of the licensees. In this regard, the following systemimprovement is suggested.
- "Police certificate issued by the local police station from the home town of the employee or where the employee has been residing in the past one year along is to be accepted for employment by the Licensees"
- 6.7 A check has been conducted on the conducting of written examination RR/MAS in one of the centre and it is observed despite there is a clear instructions in the hall ticket to produce the original ID card at the time of writing examination by the candidate, an instruction was issued by the RRB/MAS for allowing the candidate for written examination even with Photostat copy of ID proof. Therefore, a system is suggested for not to deviate from the laid down instructions in future examinations and to avoid complaints.
- 6.8 A check has been conducted in the written examination at two centres for the post of physically handicapped conducted by RRC/MAS, and it is observed that the Railway Board instructions is not followed for engaging scribes for visually handicapped candidates. Hence a system correctness letter has been dispatched to RRC/MAS to follow the Railway Board instructions contained in RBE letter dated 13th September 2007.
- 6.9 A system improvement suggested regarding "Leverging of Technology for electronic payment of electrical energy charges to EB".
- 6.10 A system improvement suggested regarding "quick issue of self-life item of 1.5v cells and reducing AAC quantity of 40W IC lamps and 1.5v cells".
- 6.11 A check has been conducted on the conducting of written examinations departmentally and it is observed that the notifications issued is not containing the rules & regulations meant for conducting exams Therefore, a system is suggested to all concerned i.e. FA&CAO, CPO/MAS & CSC/MAS in sending the exam notification, rules & regulations enunciated for the exam.
- 6.12 Another System Improvement is suggested to ensure the exam hall is free from obstacles have been initiated.
- 6.13 In another selection case, a system improvement has been suggested for Departmental selection on the following aspects :
- (i) Official Language question to be asked.
 - (ii) Date of exam of 70 % followed by LDCE but not simultaneously.
 - (iii) Evaluation of answer sheets by pencil to be avoided.
 - (iv) Eligibility criteria for Commercial Clerk against 33 1/3% quota to be specified.
- 6.14 A check has been conducted on the conducting of written examinations deparmentally, on the working day of the Lnstitution, which was the venue of the examination, It was noticed that there were lot of disturbance because of that, Therefore, a system correctness is reiterated to all concerned i.e. FA&CAO, CPO & CSC for avoiding scheduling of written examination during the working day of the Institution.

- 6.15 During the vigilance check conducted at the time of written examination organized by HQ/PB, for the General selection post, it was noticed that no declaration was obtained from the Invigilator to the effect of none of his/her relatives is appearing in the examination. Therefore, a system correctness was issued to ensure on the instructions and practice in vogue for adhering during the conduct of examination. Therefor a system correctness was issued to ensure on the instructions and practice in vogue for adhering during the conduct of examinations.
- 6.16 A check has been conducted on a departmental selection and observed that an official nominated for setting the question paper was excluded while constituting the Selection Board and the correction made in the tabulation sheet were not attested by the members of constituted selection body, which is a clear violation of provision of Para 219 of IREM Vol. 1. Therefore, a system correctness has been issued for adhering of Para 219 of IREM Vol. 1 and selection should be given cognizance.
- 6.17. A check has been conducted on the aspect to accountal of acquittance roll in one of the division and observed that acquittance roll was signed by the payees only in a single copy as against the procedure of obtaining the acquittance roll in duplicate. Also observed that the disbursing office is having a Photostat copy instead of orighnal acquittance roll in their file. Therefore, a syatem correctnesshas been issued that the extant system of obtaining the acquittance in duplicate should be strictly followed keeping one original in the disbursing office file and another copy to associate finance with in the stipulated time.
- 6.18 A system improvement is suggested for notifying the list of staff who are nominated for invigilation work during the departmental selection.
- 6.19 A system improvement is suggested for centralised maintenance of Bio-sata and monitoring of PME of Operating Department staff including TI.
- 6.20 A letter to Sr. DPO/MAS for effective compliance with regard to implment the system improvement already suggested by Vigilance viz. (1) Intimation of Nomination of the invigilators, (2) Obtaining declaration from invigilators & (3) To ensure that the exam hall is free from obstacles has been reiterated for implementation.
- 6.21 In order to avoid delay tn refund of EMD amount, it is suggested to COS/S. Rly. for implementation a system for stamping the office copy of PO regarding refund of EMD, with signature of concerned sectional official and PO signing authority, before/at the time of release of PO.
- 6.22 A thrust area check has been conducted at ICF Silver Jubilee Mat. Hr. Sec. School, ICF/PER during the written examination in connection with the selection to the post of ASI/RPF. No irregularities were detected. However, as the department did not send the instruction to vigilance before hand, a system improvement has been proposed to send the instructions well in advance to conduct effective check by the vigilance.
- 6.23 A system improvement is suggested to CPO/MAS, FA&CAO/MAS and CSC/MAS for scrupulously following the procedure of vetting of proposals duly listing the instances where it is essential as there is no uniformity across divisions. In some divisions payments are being arranged without vetting.
- 6.24 A system improvement regarding granting of Dearness Relief to technically resigned employees is to be issued only an receipt of pay fixation memorandum/order from the absorbing units so that such incident of irregular payment of dearness relief can be avoided was suggested to CPO, FA&CAO and CSC.
- 6.25 A system improvement regarding claiming of salary register in field unit offices was suggested that
- (i) No one should claim their own salary in PRIME/AFRES.
 - (ii) The SR entry of increment for the above staff working in field units is to be made after comparing the salary bill for the month of July every year by the staff nominated at PB in the division and countersigned by APO concerned .
 - (iii) The annual increment statement for the grant of increment in July to be submitted to accounts by the bill drawing office with comparison statement of June and July and the Accounts Staff (AA/SSO(A) would check the same salary bill in August and certify the same.
- 6.26 A system improvements on the following aspects of pre-vetting of TA journals is suggested to CPO/MAS, FA&CAO/MAS and CSC/MAS.
- (i) Pre vetting is to obtained for TA claim of staff as per the extant norms. Hence TA summary and TA journals of the staff with grade pay Rs. 4,200/- and above shall be vetted before incorporating the amount in the salary bill. Only the vetted amount should be claimed as TA in the salary bill.
 - (ii) The TA summary and TA bills may be furnished by 10th of every month and the Accounts office will return the vetted TA summary statement by 15th to enable preparation of bills.
- 6.27 A system correctness was issued on the aspect of reporting Sick by the RPF staff to adopt Rule Provision in prescribed format as per IRMM to CMD/MAS and CSC/MAS.
- 6.28 In the Regular coach cleaning contracts, grading points for assessment of cleanliness for SLR, GS and Pantry Car coaches to be modified by excluding the points for removal of reservation charts which is not applicable for the said coaches.
- 6.29 In order to impose/waive general damages, it was suggested to COS/S. Rly. the instructions for cancellation with general damages (GD) may be reiterated. Further, the Importance of recording reasons, while taking a decision (i.e. Whether passing over/Cancelling with general damages etc.) may also be reiterated.

- 6.30 It was suggested to COS/PER that not for sale items if any has to be mentioned in the auction catalogue and delivery order, in details, rather than simply referring to as "NFS as per lot inspection report", as the inspection report document is of sensitive and confidential in nature.
- 6.31 It was suggested to COS/S. Rly. that, "the copy of the rejection advice must be necessarily be marked to concerned accounts department. In the cases where advance payment is involved, copy should be necessarily marked to concerned accounts department, advising to recover from the firms outstanding bills".
- 6.32 A letter has been sent to RRC/MAS, FA&CAO/MAS, RRB/MAS and TVC with suggestion of system improvement of
- (i) Timely deposit of DDs and IOPs being received from the candidates for encashment.
- (ii) The amount available in Axis Bank in the accounts of RRC/MAS may be transferred to the accounts of FA&CAO/MAS every month instead of existing practice of six months.
- 6.33 A system improvement is suggested Electrical Department *"To issue comprehensive policy guideline for the use of Non-conventional Energy sources from the Headquarters of Electrical Department with details of power capacity and maintenance procedures for various applications"*. Further, similar project/tenders if any, may also be reviewed by the Headquarters to utilize the non-conventional Energy sources effectively.
- 6.34 Investigation of Selection of Group "C" to Group "B" revealed that answer booklets were submitted by the conducting officer after two days of the examination. A system improvement is suggested to CPO/Southern Railway, such as "Arrangements to collect the answer booklets on the day of exam itself. If not, suitable arrangements for safe custody of papers need to be done by Personnel Branch".
- 6.35 A letter has been sent to CMS/SA for system correctness on the aspect of Quality Analysis of Drug, wherein it was specifically mentioned that drug samples should be sent to various approved testing labs available in the State and not to a single lab alone.
- 6.36 Corrective action was advised on failure of noticing CT availability in Kwh meter panel that completion of electrical work done by contractor in IRCTC stalls shall be inspected and certified by SSE/Electrical and CT ratio shall be stenciled on Kwh meter panel wherever CT connected via KWh meter.
- 6.37 Corrective action was advised on underutilizing and over utilizing of AC coach manning staffs in AC coach that AC link roster shall be monitored by incharge of depot and controlling officer regularly and staffs shall be transferred for every 4 years who are preparing the overtime statement and booking AC staffs for manning AC coach.
- 6.38 Corrective action advised on discrepancy in contract condition that penalty shall be recorded in M. Book with references and equipment en-route failure which invite penalty shall be spelt out distinctly in contract condition.
- 6.39 A letter has been sent to CMS/SA for system correctness on the aspect of Quality Analysis of Drug, wherein it was specifically mentioned that drug samples should be sent to various approved testing labs available in the State and not to a single lab alone.
- 6.40 During the investigation of a complaint forwarded by CVC, it has been brought to light that Dealers are putting up "part files" for approval or extension, which results in officers sanctioning the same without going through full history of the issue. This had resulted in violation of existing rules and procedures, issued by the Railway Board. In this regard, the following system improvement is suggested for implementation.
- "Whenever, dealers are putting up the files for approval, the entire file has to be put up to the Officer, duly noting the brief history of the issue, especially in case of extensions or renewals. Officers are not to give orders if part files are put up for approval of sanction".
- 6.41 Based on a vigilance investigation the following system improvement was suggested :
- (i) Tendering of items (such as sealed maintenance free battery in different capacity) should be done, after clubbing quantities of different consignees. In this connection, all consignees may be asked to check their demands and submit their requisition before three/four target dates, in one year.
- (ii) Rate contract at divisional level/Headquarters level may also be explored ;
- (iii) Makes/Brand of these items should be standardized in order to ensure receipt of quality batteries.
- 6.42 Based on a vigilance investigation the following system improvement was suggested :
- Lot formation register with DBR entries and relevant DS8s for the scrap materials to be proposed for sale after formation of lot should be submitted to sales controlling officer along with survey sheets duly signing by the custodian of RSF ward and lot formation CDMS, DMS. The Lot formation register should be signed by the custodian of RSF ward and lot formation DMS/CDMS and counter signed by immediate sales controlling officer.
- 7. Vigilance Awareness Programmes :**
- 7.1 A lecture on vigilance awareness was given by Dy. CVO/Electrical at ZETTC/AVD on 17-04-205 for supervisory officials.
- 7.2 A seminar on vigilance awareness was conducted at ELS/ED on 08-05-15.

- 7.3 Dy. CVO/M conducted vigilance awareness programme for the supervisors of Diesel loco shed/Thondiarpet on 20-05-15.
- 7.4 A lecture was given at SRCETC/TBM on 05-06-15 on "vigilance awareness" for 30 Nos. of SSE/JE of P. Way and works and JE/P. Eay.
- 7.5 A vigilance workshop was conducted for all officers of Electrical Construction, supervisory officials and Ministerial staffs at CN/MS on 12-06-15.
- 7.6 A lecture on "vigilance awareness" was delivered by Shri K. Vijayaprasad, AVO/G for commercial staff (CCs, TCs and commercial apprentices) at ZRTI/TPJ on 13-06-15.
- 7.7 A vigilance awareness programme was conducted at Dsl. Shed/ED on 21-06-15.
- 7.8 Lectures were given at SRCETC/TBM on 17-07-15, 21-08-15, 27-11-15 on vigilance awareness for SSE/Works, SSE/P. way and JE/P. way by CVI/Engg. attended by 150 staff.
- 7.9 A workshop on Tenders and Contracts pertaining to commercial matters was organized at ZRTI/TPJ on 20-07-15. COM/SR inaugurated the workshop SDGM/SR and Dy. CVO/T conducted the workshop for the benefit of commercial officers and staff. 33 Traffic officers and 12 staff participated in the workshop.
- 7.10 A Seminar was conducted for TTEs by Dy. CVO/T and AVO/G on 27-07-15 at Divisional Office/MAS.
- 7.11 A workshop for Traffic officers in Tenders conducted at GM/O/MAS on 25-09-15 by Dy. CVO/T/MAS.
- 7.12 A workshop was conducted during September 2015 at Electric Loc shed/ED on Establishment matters, Conduct Rules and D&AR for officers and Supervisory staff.
- 7.13 A workshop on vigilance awareness for accounts trainees was conducted at ZTS/TPJ during September 2015.
- 7.14 Vigilance awareness class was conducted at ZRTI/TPJ for Pro TTEs during November, 15 by AVO/General.
- 7.15 One Lecture on vigilance awareness was given to the SSE/W and JE/W at SRCETC/TBM on 27-11-15.
- 7.16 Seminars on Tenders conducted for the officers and staff at salem Division 23-12-15 (Forenoon) by Dy. CVO/T.
- 7.17 Seminar on Ticket checking conducted for ticket checking staff of Salem Division on 23-12-15 (Afternoon) by Dy. CVO/T.
- 7.18 A vigilance awareness class was conducted at ZRTI/TPJ for Pro TTEs on 30-01-15.
- 7.19 A Lecture on vigilance awareness was given to SSE/W and P. Way and JE/P. Way for promotional training at SRCETC/TBM on 25-01-15 for 41 officials.
- 7.20 Preventive vigilance lecture given at ZRTI on 19-02-16 for ticket checking staff by AVO/G.
- 7.21 A vigilance awareness lecture was given for the refresher course for SSE/W and SSE/P. Way at SRCETC/TBM on 26-02-16.
- 7.22 A class study on Tenders subject was conducted by Dy. CVO/L at ZETC/AVD on 29-02-16 for SSEs/JEs/OS/Tender.
- 7.23 A class on vigilance awareness was conducted at SRCETC/Tambaram for SSE/JE/Works and P. Way and promotional course for SSE/JE/P. Way (SR and SWR) on 17-03-16 for 60 officials.
- The following awareness programmes were conducted during the vigilance awareness week**
- 7.24 A inter collegiate debate competition was organized on 26-10-15 on the topic of "our country is serious in fighting corruption". 10 participants from 5 colleges participated in the competition and response was very good.
- 7.25 SDGM attended vigilance awareness seminar at TPJ division on 30-10-15.
- 7.26 A Seminar was conducted on e-procurement of medical items for medical officers and staff dealing with procurement of medicines on 28-10-15 at Headquarters Office. SDGM, CMD, CMM, Dy. CVO/Stores, Dy. CVO/Accts., Dy. CVO/S&T and SMM/IC participated in the Seminar. All divisions were also covered through video conferencing.
- 7.27 Elocution competition was held at New College on the topic "Role of Youth" in tackling corruption. Dy. CVO/E and Dy. CVO/T moderated the function. There were 9 participants. Around 50 students attended the function.
- 7.28 Elocution and Essay Writing competition conducted by vigilance inspectors, were held at Jaya Engineering College, Tiruninravur, Chennai on 29-10-15, presided over by Sr. DPO and Sr. DFM 250 students were participated.
- 7.29 Elocution competition was held on 30-10-15 at Kandaswamy Naidu College, Anna Nagar on the topic of "corruption and economic progress of our country". ADRM/II/MAS and Dy. CVO/A moderated the function. There were around 7 participants and around 120 students attended the function.
- 7.30 Dy. CVO/L conducted a seminar for the officers of LW/PER and CW/PER on 30-10-15.
- 7.31 A seminar was conducted at COS/O/PER on 30-10-15. All stores officers (CMM, Dy. CMM and SMM) were attended. Dy. CVO/S addressed the gathering.
- 7.32 Vigilance Awareness classes were conducted at RMHSS/EM/PER, RMHSS/EM/MDU, RHSS/PGT, PRCHSS/PER on 27-10, 20-10 and 30-10-15 respectively, in addition to conduct of essay and elocution competition.
- 7.33 Elocution and Essay Writing Competitions were held at Vivekananda Vidyalaya/PER on 30-10-15 among students with the assistance of vigilance officers and team of CVIs.

8. Vigilance Publications during 2015-16

- 8.1 A special Vigilance Bulletin was published during Vigilance awareness week which contained articles from officers and Inspectors of Vigilance Department, as well from the employees of open-line.

10. GENERAL MANAGER'S ANNUAL INSPECTION

General Manager Annual Inspections along with Principal Heads of Department during the year April 2015 to March 2016 are as follows :—

Sl. No.	Name of the Division	Sections	Date	Distance	Gauge in Km.
1	Thiruvananthapuram	ERS-ALLP-KYJ	10-12-2015	100	BG
2	Palakkad	SRR-PGT-CBE	18-12-2015	99	BG
3	Salem	SA-NMKL-KRR	07-01-2016	85	BG
4	Tiruchchirappalli	MV-TJ-TPJ	10-03-2016	120	BG
5	Madurai	TSI-TEN-TCN	15-03-2016	133	BG
6	Chennai	MAS-AJJ-RU	17-03-2016	135	BG

The above details are furnished in connection with GM's Annual Narrative Report for the year 2015-16.



II. राजभाषा में प्रगति/PROGRESS OF HINDI

1. Organisation

A Separate Hindi Organisation is functioning under the direction of Mukhya Rajbhasha Adhikari. He is assisted by DGM/OL, Sr.Rajbhasha Adhikari, Rajbhasha Adhikaris, 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. Ministry of Home affairs has extended the period for Hindi training upto 2025.

During the year 2015 -2016 a total of 849 employees have been trained in Hindi under various training programmes.

3. Conversational Training

To give training to frontline staff who come in contact with the public, conversational training is being imparted. During the year 2015 -2016, 96 employees have been trained in Hindi Conversation Course.

4. Hindi Type Writing and Hindi Stenography

Hindi Typing and Hindi Stenography training is imparted through Hindi Teaching Scheme, Ministry of Home Affairs. Staff are given training in Hindi Computer Keyboard also. 483 employees have been trained during the year 2015-2016 in Hindi Keyboard and they are typing in Hindi also.

5. Hindi Workshop :- During the year 2015 -2016, 31 Hindi Workshops were conducted all over S.Rly and 8 Officers and 713 Employees were trained in the workshop.

6. Computerisation in Hindi

There are 3495 Computers in Southern Railway and all of them have bilingual facility. Southern Railway website WWW.southernrailway.org. & www.srailway.com have been made bilingual and important templates and Annual Programme have been uploaded on this site. Information regarding passenger amenities is also available in two languages i.e., English and Hindi. Besides, a separate page for HINDI is opened in the Intranet. Learn a word a day, competition results and other activities of Hindi are uploaded in the intranet from time to time.

7. 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 100% 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.

8. Implementation

OFFICIAL LANGUAGE IMPLEMENTATION COMMITTEE (OLIC)

To review the progress of Hindi at different levels 85 Official Language Implementation Committees (OLICs) are functioning in this Railway. Quarterly Meetings of these committees are conducted regularly.

9. 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, Personnel Department and Commercial Department respectively.

10. Use of Hindi in Public Address Systems

Announcements are made in Tamil, Hindi and English at all important Station.

11. Inspections made by Officers

During the ZOLIC/OLIC meetings, officers are requested to inspect implementation of Hindi aspects 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, 2264 inspections on OL aspect has also been included.

12. 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.

13. Original Work in HindiNoting in Hindi

During the year 2015-16, out of 38,969 notings, were done in Hindi out of 1,07,277 notings in Headquarters, Divisions & Workshops.

Entries in Registers/Diaries.

During the year 2015-16, 22948 headings/subjects on registers/Diaries were written in bilingual form and entries in 12004 registers/diaries were made in Hindi-English mixed language. All efforts are taken to make the remaining registers/diaries in bilingual form.

14. Use of Railnet

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

15. 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.

16. Hindi Magazine

House Magazines in Hindi are published regularly by all the Divisions, Hqrs. office and Workshops of this Railway.

17. Seminars in Hindi

During the year 2015-16 seminars on various subjects in Hindi are conducted periodically by Hqrs, Divisions & Workshops of S.Rly. During the year under review 8 seminars were conducted.

18. Help Literatures

During the year 2015-16, 09 Help-literatures in Hindi on various subjects were printed & distributed in Hqrs. Divisions & Workshops of Southern Railway.

19. Hindi Library

To increase the Hindi knowledge of officers and employees, 63 Hindi Libraries are functioning in this Railway. A total number of 80 Hindi Titles were purchased during the year under review for Headquarters. With a view to propagate & utilize the Hindi books, a quiz on the books "AGNEY" was conducted. Besides, book review, Skit and Doha competitions were conducted for library Day celebrations of Hqrs. In all this competitions 105 officers/Employees participated.

20. Hindi Week Celebration

As every year, during the year also various competitions were conducted to increase interest in employees towards Hindi and to increase the usage of Hindi in Official work. For the year 2015-16 Hindi Typing, Noting & Drafting, Essay, Elocution, Singing and quiz competitions were organized and 105 Employees participated with much interest.



III. वित्तीय परिणाम/FINANCIAL RESULTS

Financial Results

(Rupees in lakhs of ₹)

Financial Results of working for the year 2015-16

(Rupees in lakhs of ₹)			
Particulars	Actuals 2014-15	Actuals 2015-16	
1. (a) Capital-at charge	12,12,091	13,88,076	
(b) Investment from Capital Fund	3,97,442	4,43,324	
2. (a) Gross Traffic Earnings ..	7,59,234	7,60,593	
(b) Suspense.. ..	39	1,723	
(c) Gross Traffic Receipts ..	7,59,273	7,62,316	
3. (a) Ordinary Working Expenses	7,03,363	7,35,627	
(b) Suspense.. ..	735	-4,445	
(c) Ordinary Working Expenses (incl. susp.)	7,04,098	7,31,182	
4. Appropriation to D. R. F. ..	55,700	38,700	
5. Appropriation to Pension Fund ..	2,20,200	2,51,600	
6. Payment to worked lines ..	—	—	
7. Total working Expenses ..	9,79,998	10,21,482	
8. Net Traffic Receipts ..	-2,20,725	-2,59,166	
9. Net Miscellaneous Receipts ..	526	390	
10. Net Revenue	-2,20,199	-2,58,776	

Particulars	Actuals 2013-14	Actuals 2014-15
11. Payment to General Revenues— Subsidy from General Revenue towards Divident Relief and other concessions.	38,863	36,474
12. Surplus/Shortfall ..	-2,59,062	-2,95,252
13. Operating Ratio ..	128.98	134.89
14. Percentage of Net Revenue to Capital-at-charge and Investment from Capital Fund.	-13.68	-14.13

2. Traffic receipts

The details of Revenue Receipts for 2014-15 and 2015-16.

(Figures in lakhs of ₹)			
Heads of Traffic	2014-15	2015-16	Variation
Passenger ..	3,71,999	3,85,867	13,868
Other Coaching ..	39,734	43,616	3,882
Goods	3,04,572	2,81,618	-22,954
Sundries	42,929	49,491	6,562
Suspense	39	1,723	1,684
Gross Earnings ..	7,59,273	7,62,315	3,042

3. Coaching Earnings

(a) Passenger Earning under important Heads During 2015-2016 compared with 2014-2015

Particulars	Traffic Earnings		Difference		Percentage of Variation		
	2014-2015		2015-2016				
	Number of pass. (in thousands)	Earnings (in lakhs)	Number of pass. (in thousands)	Earnings (in lakhs)	Number of pass. (in thousands)	Earnings (in lakhs)	
A. Non-Suburban							
Air-conditioned First Class	319	3,060	367	3130	48	70	15.05
Air-conditioned 2-Tier	4,252	27,506	4493	28617	241	1,111	5.67
Air-conditioned 3-Tier	13,365	62,772	14137	70217	772	7,445	5.78
A. C. Chair Car ..	3,810	14,191	4249	15232	439	1,041	11.52
First Class—							
(a) Mail/Express ..	83	649	..	..	-83	-649	-100.00
(b) Ordinary ..	735	298	496	253	-239	-45	-32.52
Total ..	818	947	496	253	-332	-694	—
Second Class Sleeper—							
(a) Mail/Express ..	96,731	1,27,484	65383	131785	-31348	4,301	-32.41
(b) Ordinary ..	1,049	673	851	728	-198	55	-18.88
Second Class Ordinary—							
(a) Mail/Express ..	1,16,172	90,752	128368	91963	12,196	1,211	10.50
(b) Ordinary ..	2,42,976	26,239	249354	24922	6,378	-1,317	2.62
Total Non-Suburban ..	4,79,492	3,53,624	467698	366847	-11,794	13,223	-2.46
B. Suburban							
First Class (Ordinary)	88	63	62	79	-6	16	-6.82
First Class (Season)	10,021	1,307	9,889	1,241	-132	-66	-1.32
Second Class (Ordinary)	1,78,626	11,502	1,76,082	12,204	-2544	702	-1.42
Second Class (Season)	2,06,904	5,503	2,00,869	5,496	-6035	-7	-2.92
Total Suburban	3,95,639	18,375	3,86,922	19,020	-8717	645	-2.20
Grand Total	8,75,131	3,71,999	8,54,620	3,85,867	-20511	13868	-2.34

(b) Goods earnings under important heads during 2015-16 compared with 2014-15

		Tonnes carried-on System		Earnings	
Sl. No.	Particulars	(in millions)		(₹ in lakhs)	
		2014-15	2015-16	2014-15	2015-16
A. Revenue Earnings Traffic:-					
1.	Products of Agriculture..	12,235	9.092	57,025	53,866
2.	Animals & Products of Animals.	0.000	0.000	0	0
3.	Products of Mines ..	28,985	23.495	1,14,963	1,06,717
4.	Mineral Oil ..	4,525	4.425	25,059	25,862
5.	Products of Forests ..	0,289	0.146	1,133	626
6.	Manufactures ..	15,216	10.240	63,966	43,983
7.	Miscellaneous ..	9,111	8.835	34,348	30,740
8.	Total Revenue traffic..	70,361	56.233	2,96,494	2,61,794

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 ..	0.236	0.117	0.00	0.00	
(b) For other Govt Rlys., etc.	0.000	0.000	0.00	0.00	
11. Total Non-Revenue ..	0.236	0.117	0.00	0.00	
12. Grand Total Revenue and Non-Revenue	70.597	56.350	2,96,494	2,61,794	

(c) Other Coaching Earnings under important heads during 2015-16 compared with 2014-15.

(Figures in lakhs)				
Sl. No.	Particulars	2014-15	2015-16	Variation
1. Special Trains and reserved carriages (Public)		1,581	1,568	-13
2. Special Trains and reserved carriages (Military)		1,068	1,746	678
3. Luggage collected at stations ..		666	860	194
4. Luggage collected by special ticket checking staff.		410	471	61
5. Public Parcels ..	17,362	16,357	-1,005	
6. Transport of Mails..	2,585	2847	262	
7. Service Parcels ..	0.00	0	0.00	
8. Miscellaneous ..	16,062	19,767	3,705	
Total	39,734	43,616	3,882	
Less Refunds ..	0	0	0	
Net Other Coaching Earnings	39,734	43,616	3,882	
Total Coaching Earnings	4,11,733	4,29,483	17,750	

4. Ordinary Working Expenses**Appropriation Accounts for 2015-16—Statement showing percentage of Working Expenses to Earnings for the year 2015-16 :—**

Name of the Railway	Percentage of Working Expenses to Earnings
Southern Railway	134.89

1. The Operating ratio—The Operating ratio of 2015-16 is 134.89 % is 5.91 points more than the Operating ratio of 2014-15. (128.98%).

(a) The Gross Earnings for 2015-16 is ₹ 7,605.93 crores as against ₹ 7,592.34 crores for 2014-15 with an increase of ₹ 13.59 crores (0.18%).

(b) The Ordinary Working Expenses for the year 2015-16 in respect of Grant No. 3 to 13 are more by ₹ 322.64 crores (4.59%).

(c) Appropriation to DRF has decreased by ₹ 170 crores (-30.52%) and Appropriation to Pension Fund has increased by ₹ 314 crores (14.26%) during 2015-16.

(d) The Total Working Expenses for 2015-2016 including Appropriation to DRF and Pension Fund is ₹ 10,259.27 crores (excluding suspense) as against ₹ 9,792.63 crores for 2014-15 with an increase of ₹ 466.64 crores (4.77%).

II Earnings.—Analysis of variation over actuals of 2014-15.

(a) **Passengers** :—The increase under Passenger Earnings is ₹ 138.68 crores which amounts to 3.72% over the previous year. The break-up for the increase is as follows :—

(Figures in crores of ₹)

Increase in rates	..	63.78
Increase in traffic	..	74.9
Total	..	138.68

(b) **Other Coaching**.—The increase under Other Coaching Earnings is ₹ 38.82 crores which amounts to 9.77 % over the previous year. The details for the increase is as follows :—

(Figures in crores of Rs.)

(i) Decrease in Parcels	..	-10.05
(ii) Increase in Luggage	..	2.56
(iii) Increase Under Military	..	6.66
(iv) Increase in Postal Bills	..	2.62
(v) Increase under Others	..	37.03
Total	..	38.82

(c) **Goods Traffic** :—The decrease of ₹ 229.5 crores over the last year amounts to 7.54 %. This is mainly due to :—

(Figures in crores of ₹)

(i) Increase in Rates	..	226.05
(ii) Decrease in Traffic	..	-435.51
(iii) Decrease in Misc. earnings	..	-20.08
Total	..	-229.54

(d) **Sundries** :—The increase is ₹ 65.63 crores over the previous year amounts to 15.28%. This can be mainly attributed to :—

(Figures in crores of ₹)

(i) Decrease under Rent	..	-0.06
(ii) Decrease in Demands Recoverables	..	-1.49
(iii) Decrease in Catering Earnings	..	-53.20
(iv) Increase in Others	..	120.38
Total	..	65.63

III. Working Expenses.—An analysis on variation over 2014-2015.

Increase under Ordinary working Expenses covered by Grants 3 to 12 on Gross basis (Voted) excluding suspense amounts ₹ 30,406.73 lakhs, which amounts to 4.30% more than that of the previous year. The reasons for the variations are dealt by PU wise :—

(Figures in thousands of ₹)

(1) Salaries and Wages (PU-01)— Due to more payment paid	4,09,270
(2) Dearness Allowance (PU-02)— Due to twin hikes.	16,83,776
(3) Productivity Linked Bonus (PU-03)— Due to less payments.	-10,812
(4) House Rent Allowance (PU-04)— Due to more Payments.	57,568
(5) Transport Allowance (PU-07)— Due to twin hikes in DA	1,29,475
(6) Kilometre Allowance (PU-10) Due to more payments	12,985

(7) Overtime Allowance (PU-11)	
Due to less claims	(-) 40,603
(8) Night Duty Allowance (PU-12)—	
Due to enhancement in rates	49,336
(9) Other Allowance (PU-13)—	
Due to hike in rates by 25%	35,693
(10) Fees and Honoraria (PU-14)—	
Payment of more honorarium claims	4,707
(11) Transfer Allowance (PU-15)—	
More payment on account of transfers	10,949
(12) Travelling Expenses (PU-16)—	
Due to hike in rates by 25%	20,249
(13) Leave encashment during service (PU-20)	(-) 19,243
Due to less claims	
(14) Children Education Allowance (PU-25)	40,657
Due to hike rates by 25%	
(15) Contingencies (PU-18 to 24)	(-) 35,123
Due to more payments of CUG, water charges & RPF contingencies.	
(16) Reimbursement of Medical expenses to the employees (PU-26)	
Newly introduced PU vide ACS 124 to FII w.e.f. 21-08-15.	1,68,410
(17) Drawal from Stores (PU-27)	
More due to increase in activities - Track maintenance.	19,339
More drawals of stores for electric locomotive activities, Carriages & electrical, General services.	1,11,371
More drawals of stores for Elec. & Signal equipments maintenance.	38,466
More consumption of lubricants, Brake blocks & for station cleaning.	36,002
Due to decrease in HSD prices & Lesser GTKM	-27,70,203
More drawal of stores for Gen Superintendence & Station operations.	-3,701
Lesser drawal of stores for Gen Superintendence & Station operations.	21,192
Total	-25,47,534
(18) Cost of materials - Direct Purchase (PU-28)	
Less due to decrease in activities in Gen. Superintendence.	-1,329
More due to increase in activities in track maintenance.	-1,939
More purchase of material for Diesel Locomotive maintenance & under wagon.	26,743
More purchase under for signalling & electrical equipments.	24,673
More under linen procurement & sanitation	1,728
More under steam traction	18,849
More under medical procurements	28,166
Due to decrease in other activities	-2,761
Total	94,130
(19) Cost of Electric Enegy (PU-30)	
Newly introduced PU vide ACS125 to FII w.e.f. 3-12-2015.	90,07,067
(20) Fuel for other than traction (PU-31)	
Less consumption of fuel for generators in Rajdhani, Shatabdi & Duranto Express.	-7,518
Due to increase other minor activities including fuel for staff cars and others .	-5,571
Total	-13,089

(21) Contractual Payments (PU-32)	
More under Contractual payments for track maintenance.	3,90,077
More due to contracts for DSL. & Elec. loco-motives & Wagon maintenance & Gen Superintendence.	41,255
More towards under Contractual Payments under Elect. S & T and Engg. Departments etc.,	12,373
Less towards to change to PU 30	-7,20,308
Less towards to change to PU 30	-69,47,602
More under repairs and maintenance of Residential & Welfare buildings.	88,553
Less payments for catering contracts	-78,004
Less due to other activities	-8,445
Total	-72,22,101
(22) Transfer of debits/credits from other Units (PU-33)	
More debit under Permanent Way	26903
More inward debits under DSL. & Elect locos	57768
Due to shifting of expenditure to PU 63 & 64	-592523
More credits for S&T maintenance	-122603
Due to abalition of PU 33 towards EE non-traction distribution.	134974
More dedits from IRFC	261893
Due to shifting of expenditure partially to PU 61	-199221
Due to abalition of PU 33 towards EE non-traction distribution.	-188908
Less towards RPSF Debits	-12075
More under other activities	1815
Total	-631977
(23) Adjustment of ' Wages ' on POH (PU-34)	
Maintenance towards P. Way	11,379
Less out turn under AC loco POH	-32,259
Increase in activities mainly under DEMU	80,750
Decrease in POH activities of Mechanical, equipments and colonies.	-4,084
Less under other activities	-105
Total	55,681
(24) Adjustment of ' Materials ' on POH (PU-35)	
Maintenance towards P. Way	23,036
Increase in POH activities	28,873
Increase in POH activities	1,87,265
Other factors	2,910
Total	2,42,084
(25) Excise Duty (PU-36)	
More payments due to higher of ED rates towards HSD oil	10,14,284
Due due to other activities	3,578
Total	10,17,862
(26) Customs Duty (PU-37)	
NIL	0
(27) Sales Tax (PU-38)	
Less payments towards ST for HSD oil	-3,13,211
Minor factor.	649
Total	-3,12,562
(28) Air Travel-Domestic (PU-39)	
Due to Less payments	-484
(29) Air Travel-Foreign (PU-40)	
Trivial	28
(30) VAT (PU-41)	
More tax paid in lieu of Sales tax	10,700
(31) Arrears Payments - Salary & Wages (PU-42)	
Lesser payments towards Arrears of pay	-75,778

Percentage of Working expenses to earnings for the year 2015-16

Comparison of Gross Earnings, Ordinary Working Expenses & Appropriation to Funds 2015-16 with that of 2014-15.

Summary

	Actual 2015-16	Actual 2014-15	Variation (+) More (-) Less	% of Variation
(Figures in thousands of ₹)				
1. Gross Earnings	7,60,59,279	7,59,23,399	1,35,880	0.18
2. Ordinary Working Expenses (03-13) Net	7,35,62,729	7,03,36,263	32,26,466	4.59
3. Appropriation to DRF	38,70,000	55,70,000	-17,00,000	-30.52
4. Appropriation to Pension Fund	2,51,60,000	2,20,20,000	31,40,000	14.26
5. Total (2+3+4)	10,25,92,729	9,79,26,263	46,66,466	4.77
6. Operating Ratio (5/1 *100)	134.89	128.98	5.91	

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

De- mand No.	Abstract Particulars	2014-2015	2015-2016
(In thousands of ₹)			
(3) A	General Superintendence and Services	49,60,744	52,33,373
(4) B	Repairs and Maintenance of Permanent Way and Works.	66,48,169	73,64,791
(5) C	Repairs and Maintenance of Motive Power	33,45,949	37,04,009
(6) D	Repairs and Maintenance of Carriage and Wagon.	87,99,541	94,06,524
(7) E	Repairs and Maintenance of Plant and Equipment.	41,74,784	43,72,204
(8) F	Operating Expenses—Rolling Stock & Equipment.	63,46,098	67,91,914
(9) G	Operating Expenses—Traffic..	1,09,96,638	1,15,56,060
(10) H	Operating Expenses—Fuel	1,68,55,681	1,59,31,028
(11) J	Staff Welfare and Amenities ..	40,65,086	42,89,853
(12) K	Miscellaneous working expenses	34,10,798	40,02,543
(13) L	Net Provident Fund, Pension and other Retirement Benefits.	7,32,774	9,10,431
Total ..		7,03,36,262	7,35,62,730

Suspense—

(12) N.	Demands Payable (DR.)	-2,95,504	-238087
(12) N.	Miscellaneous Advances Revenue	3,69,044	-206453

(iii) The particulars of additional investment on the Line Capacity Works and Traffic Facility Works during the year 2015-2016 as compared to the previous year 2014-2015 are furnished below.

(Net figures in thousands of ₹)

	2014-2015	2015-2016
(1) Capital ..	74,75,403	77,56,267
(2) D. R. F. ..	-1,77,702	1,633
(3) D. F. ..	3,96,947	2,30,684
(4) Capital Fund ..	0	0
(5) O. L. W. R... ..	0	0
Total ..	76,94,648	79,88,584

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

	2014-2015	Capital	DRF	D F	Cap. Fund	OLWR	RSF	SRSF	Total
Gauge Conversion	33,73,375	-2,26,772	0	0	0	0	0	0	31,46,603
Doubling ..	40,95,129	49,846	0	0	0	0	0	0	41,44,975
Tic. Facilities ..	6,899	-776	3,96,947	0	0	0	0	0	4,03,070
Total ..	74,75,403	-1,77,702	3,96,947	0	0	0	0	0	76,94,648

	2015-2016	Capital	DRF	D F	Cap. Fund	OLWR	RSF	SRSF	Total
Gauge Conversion	29,82,244	0	0	0	0	0	0	0	29,82,244
Doubling ..	47,67,358	1,633	0	0	0	0	0	0	47,68,991
Tic. Facilities ..	26,665	0	2,30,684	0	0	0	0	0	2,57,349
Total ..	77,56,267	1,633	2,30,684	0	0	0	0	0	79,88,584

(32) Arrear Payments – Dearness Pay & DA (PU-43)	
Lesser payments towards Arrears of DA	-1,57,472
(33) Arrear Payments – Allowances other than DA (PU-44)	
Lesser payments towards Arrears of other allowances	-65,657
(34) Service Tax (PU-45)	
Trivial	495
(35) Cost of Computer (PU-50)	
Due to less procurement of PC by departments	-17,255
(36) Computer Consumables (PU-51)	
Less payments towards AMCs	-25,632
Total	-25,632

(37) Laptops (PU-52)	
For purchase of Laptop for Officers	1,730
(38) Fuel from stock FFS (PU-60)	
Newly introduced PU vide ACS 125 to FII w.e.f.3-12-2015	9,81,067
(39) Transfer of Debit/redit -GTKM (PU-61)	
Newly introduced PU vide ACS 125 to FII w.e.f.3-12-2015	-7,31,094
(40) FRM/POH (PU-63)	
Newly introduced PU vide ACS 125 to FII w.e.f.3-12-2015	3,64,367
(41) FRM/POH (PU-64)	
Newly introduced PU vide ACS 125 to FII w.e.f.3-12-2015	3,61,987
(41) Other Expenses (PU-99)	
More payments for commission & for RRC	53,934
Lesser freight charges for PW materials	-57,475
Due to lesser credits due to Damaged to Wagons.	30,000
Lesser rental for PRS terminals	-9,530
Sanitation expenses	10,120
More freight charges	19,401
Expenditure partially shifted to PU 26	-1,19,298
More towards Cost of Order Police, WCA & training charges to RPF.	2,55,030
Due to other activities	-1,366
Total	1,86,816

Percentage of Working expenses to earnings—

(In lakhs of ₹)

	Budget Grant 2015-16	Revised Grant 2015-16	Actuals 2015-16	Actuals 2014-15	Actuals 2013-14
1. (a) Capital-at-charge	12,44,424	13,00,210	13,88,076	12,12,091	10,42,508
2. Investment from Capital Fund	4,45,827	4,45,373	4,43,324	3,97,442	3,56,581
3. Earnings—					
(a) Passenger	4,490,00	3,95,372	3,85,867	3,71,999	3,29,064
(b) Other Coaching	44,874	41,758	43,616	39,734	37,578
(c) Goods	3,83,223	2,85,704	2,81,618	3,04,572	2,797,28
(d) Sundries	50,000	50,000	49,492	42,929	38,185
(e) Total Gross Earnings	9,07,097	7,72,834	7,60,593	7,59,234	6,84,555
(f) Traffic Suspense and demands recoverable.	500	500	1,723	38	-1,979
(g) Gross traffic receipts	9,07,597	7,73,334	7,62,316	7,59,273	6,82,576
4. Working Expenses—					
(a) Ordinary working Expenses	8,00,823	7,46,956	7,35,627	7,03,363	6,58,348
(b) Appropriation to DRF	55,600	38,700	38,700	55,700	57,731
(c) Appropriation to Pension Fund.	2,54,500	2,51,600	2,51,600	2,20,200	1,88,734
(d) Suspense	-2,343	-3,280	-4,445	735	-7,050
(e) Total working Expenses.	11,08,580	10,33,976	10,21,482	9,79,998	8,97,763
5. Net Traffic Receipts 3(g)-4(e)	-2,00,983	-2,60,642	-2,59,166	-2,20,725	-2,15,187
6. (a) Miscellaneous Receipts	674	674	436	577	544
(b) Miscellaneous Payments	54	56	46	51	266
(c) Net Miscellaneous Receipts	620	618	390	526	278
7. Net Revenue 5+6 (c)	-2,00,363	-2,60,024	-2,58,776	-2,20,199	-2,14,909
8. (a) Payment to General Revenue	59,287	50,204	51,965	56,234	48,869
9. Subsidy from G. R. towards dividend relief & other concessions.	10,486	14,665	15,491	17,371	13,391
10. Surplus (+)/Deficit(-) (7-8+9)	-2,49,164	-2,95,563	-2,95,250	-2,59,062	-2,50,387
11. Percentage of working expenses to Gross Earnings	122.47	134.21	134.89	128.98	132.18

5. Capital

Statement showing the Capital-at-charge at the end of 31st March 2016 compared with 31st March 2015 is sent herewith. The capital-at-charge of this Railway stood at ₹. 13,88,076 lakhs at the end of 31st March, 2016 as against ₹. 12,12,091 lakhs at the end of 31st March 2015 :—

6. Assets and Liabilities —

(a) Profit and Loss Account for the year 2015-16 compared with 2014-2015

(Figures in thousands of ₹)					
Particulars	2014-2015	2015-2016	Particulars	2014-2015	2015-2016
I. To Working Expenses—			(i) By Earnings —		
A-3 General Superintendence & services..	49,60,744	52,33,373	Gross Traffic Receipts	..	..
B-4 Repairs and Maintenance of Permanent Way and Works.	66,48,169	73,64,791	Passenger Earnings.. ..	..	3,71,99,885
C-5 Repairs and Maintenance of Motive Power	33,45,949	37,04,009	Other Coaching Earnings	..	39,73,338
D-6 Repairs and Maintenance of Carriage and Wagons.	87,99,542	94,06,524	Goods Earnings	..	3,04,57,179
E-7 Repairs and Maintenance of Plant and equipment.	41,74,783	43,72,204	Others	..	42,92,996
F-8 Operating Expenses—Rolling Stock and..	63,46,099	67,91,914	Suspense	..	3,900
G-9 Operating Expenses—Traffic ..	1,09,96,637	1,15,56,060			
H.10 Operating Expenses—Fuel.. ..	1,68,55,681	1,59,31,028	(ii) Miscellaneous receipts including receipts from Surcharge on Passenger Tickets.	57,700	43,600
J.11. Staff Welfare and Amenities.. ..	40,65,086	42,89,853			
K.12 Miscellaneous Working Expenses ..	34,10,798	40,02,543	(iii) Subsidy from General Revenues towards Dividend.	17,37,082	15,49,103
N.12.Suspense	73,541	-4,44,539			
L.13. Provident Fund, Pension and other Retirement Benefits.	7,32,775	9,53,033	(iv) Gross Loss	2,60,61,238	2,50,70,090
Appropriation to D. R. F. ..	55,70,000	38,70,000			
Appropriation to Pension Fund ..	2,20,20,000	2,51,60,000			
II. Payment to Worked Lines.					
III. Miscellaneous Expenditure—					
Survey	51,43,836	4,589			
Open line works (Revenue)	0	0			
Audit	1,72,461	2,12,110			
Government Inspection	0	0			
Cost of Railway Board	3,44,363	3,55,786			
Railway Recruitment Board	1,22,854	1,31,107			
Miscellaneous charges	0	0			
Total	10,37,83,318	10,28,94,384	Total	10,37,83,318	10,28,94,384
To Gross Loss	2,60,61,238	2,50,70,090			
Payment to Dividend to General Revenue	56,23,400	51,96,549			
Grand Total	3,16,84,638	3,02,66,639	Net Loss	3,68,46,638	3,02,66,639

(b) Statement of Assets and Liabilities as on 31st March 2016, 2015 & 2014 in the form of Block Account—

(b) Statement of Assets & Liabilities				(Figures in lakhs of ₹)			
Liabilities	As on 31st March			Assets			
	2014	2015	2016	As on 31st March	2014	2015	2016
I. (a) Investment Financed from—				1. Cash in Hand ..	11,718	11,434	11,812
(i) Loan Capital Advance by General Exchequer.	10,42,508	12,12,091	13,88,075	2. Block Account (Contra item 1)	22,41,400	25,33,831	28,60,234
(ii) Depreciation Reserve Fund	4,50,548	4,96,248	5,49,547	3. Funds with Central Government (Contra item 2 & 3)	-8,97,911	-9,84,174	-12,49,769
(iii) Development Fund	1,88,500	2,06,260	2,27,465	4. Miscellaneous Advance—Sundry Debtors (to be recovered or adjusted).	22,178	25,421	23,088
(iv) Capital Fund	3,56,581	3,97,442	4,43,323	5. Traffic Earnings (yet to be realised at the end of the year).	6,217	6,323	4591
(v) Open Line Works Revenue	9,937	9,937	9,937	6. Items awaited adjustment with Civil Department, State Government, etc.	383	377	830
(vi) Railway Safety Fund	1,00,990	1,19,518	1,49,551				
(vii) Special Railway Safety Fund	92,328	92,328	92,328				
(b) Machinery and Equipment free of cost.	8	8	8				
	22,41,400	25,33,832	28,60,234				
2. Railway Reserve Fund—							
(i) Depreciation Reserve Fund	2,32,975	2,53,458	2,47,189				
(ii) Railway Revenue Reserve Fund	0	0	0				
(iii) Development Fund	-1,95,877	-2,13,923	-2,35,341				
(iv) Capital Fund	-3,43,876	-3,84,737	-4,30,619				
(v) Pension Fund	-6,76,234	-7,66,084	-8,44,024				
(vi) Railway Safety Fund	-1,00,500	-1,19,027	-1,49,060				
(vii) Special Railway Safety Fund	0	0	0				
	-10,83,512	-12,30,313	-14,11,855				
3. Bank Account (Sundry Creditors)—							
(i) Provident Fund and other funds	1,04,429	1,10,902	1,17,007				
(ii) Miscellaneous Deposits	81,172	1,35,237	45,079				
	1,85,601	2,46,139	1,62,086				
4. Demands Payable (i. e.) liabilities remaining undischarged at the end.	29,817	32,773	35,153				
5. Net Liabilities arising out of inter-departmental transactions.	10,679	10,781	5,168				
Total	13,83,985	15,93,212	16,50,786	Total	13,83,985	15,93,212	16,50,786

7. Statement of Capital Assets at the end of March 2015 and March 2016 is given below —

(Figures in thousands of ₹)

Sl. No.	PARTICULARS	Capital at charge as on 31st March 2015	Capital at charge as on 31st March 2016
11.	New Line Construction ..	1,86,23,343	1,96,47,147
12.	Purchase of New line ..	1,31,779	1,31,779
13.	Restoration of dismantled line	-89	-89
14.	Gauge conversion ..	3,89,30,611	4,18,92,855
15.	Doubling ..	2,41,18,840	2,88,86,198
16.	Traffic facilities & Yard Remodelling	16,04,768	16,31,434
17.	Computerisation ..	23,589	82,623
21.	Rolling Stock ..	1,97,59,078	2,85,58,210
22.	Leased Assets..	99,82,900	99,82,900
23.	Unman LC ..	0	0
24.	Road over/Under Bridge..	10,973	10,973
25.	Track Renewals ..	-1,749	-1,749
26.	Bridge Works ..	8,812	8,812
27.	Signalling & Telecom. Works	1,21,130	1,21,130
28.	Taking over line wire from P. & T.	-2,316	-2,316
29.	Electrification Project ..	15,96,144	15,96,144
30.	Other Electrical Works ..	2,24,828	2,25,594
37.	Traction Distribution ..	29,961	41,657
41.	Machinery and Plant ..	6,08,562	6,57,204
42.	Workshop including production units	28,14,672	29,75,317
51.	Staff Quarters..	5,68,786	5,71,531
52.	Amenity for Staff ..	64,998	64,998
53.	(i) Passenger Amenities	6,060	6,060
	(ii) Other Railway users' Amenities.	-100	-100
62.	Investment in Government/Commercial undertaking Public services.	0	0
64.	Other specified works ..	3,40,826	3,83,005
71.	Suspense ..	26,97,672	2,82,62,024
	Deduct Receipt on Capital Account	12,02,974	13,14,311
	Total Capital at charge	12,10,61,104	16,44,19,030

8. The Position of the funds maintained by the Southern Railway for 2015–2016 is indicated below —

(Figures in thousands of ₹)

Nature of Fund Accounts	Opening balance as on 1st April 2015	Appropriation during the year 2015–2016 including interest and transfers without financial adjustment	Withdrawal from the fund Actual Expenditure	Balance as on 31st March 2016
1. Depreciation Reserve Fund.	2,53,45,800	48,43,795	54,70,649	2,47,18,946
2. Pension Fund	-7,66,08,438	2,20,39,751	2,98,33,674	-8,44,02,362

9. The sources of funds from which expenditure on works met during the year 2014–2015 and 2015–2016.

(Figures are Net and in thousands of Rupees)

	2014–2015	2015–2016
1. Capital (including Transfers without Financial Adjustment)	1,69,58,291	1,75,98,483
2. Depreciation Reserve Fund ..	47,02,685	54,70,649
3. Development Fund * ..	18,04,667	20,97,543
4. Railway Safety Fund ..	18,52,768	30,80,602
5. Special Railway Safety Fund ..	0	0
6. Open Line Works–Revenue ..	0	0
7. Capital Fund ..	40,86,100	45,88,200
Total	2,94,04,511	3,28,35,477
* Inclusive of Expenditure towards—		
	2014–2015	2015–2016
(i) Safety Works D.F. IV ..	1,56,639	3,11,659
(ii) Passenger Amenities Works ..	7,02,436	9,57,312

10. Statement showing the expenditure—Plan head-wise for the year 2015–2016

(Figures in thousands of ₹)

Sl. No.	Plan Head	Capital		DRF		DF		Capital Fund		R.S.F.		S.R.S.F.		OLWR		Total	
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
1.	New Lines (Construction) Gross	6,40,157	3,83,646	..	..	..	..	..	..	..	..	..	..	..	..	6,40,157	3,83,646
(11)	Credit	35,980	..	2,820	..	..	..	..	..	..	..	..	..	..	..	38,800	..
	Net	6,04,177	3,83,646	-2,820	..	..	..	..	..	..	..	..	..	..	..	60,137	3,83,646
2.	Purchase New Lines	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(12)	Gross	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3.	Gauge Conversion	29,49,238	13,007	..	..	..	..	..	..	..	..	..	..	..	..	29,49,238	13,007
(14)	Credit	44,187	..	1,07,629	..	..	..	..	..	..	..	..	..	..	..	1,51,816	..
	Net	29,05,051	13,007	-1,07,629	..	..	..	..	..	..	..	..	..	..	..	27,97,422	13,007
4.	Doubling	4,68,161	85,743	1,633	..	..	..	..	..	..	..	..	..	..	..	46,83,248	85,743
(15)	Credit	30,895	..	52,429	..	..	..	..	..	..	..	..	..	..	..	83,324	..
	Net	46,50,720	85,743	-50,796	..	..	..	..	..	..	..	..	..	..	..	45,99,924	85,743
5.	Traffic Facilities	26,422	244	..	..	2,26,529	4,154	..	..	..	..	..	..	..	..	2,52,951	4,398
(16)	Credit	0	0	..	..	552	..	..	..	..	..	..	..	..	..	552	..
	Net	26,422	244	..	..	2,25,977	4,154	..	..	..	..	..	..	..	..	2,52,399	4,398
6.	Computerisation	59,034	..	30,175	..	11,398	..	..	..	..	..	..	..	..	..	1,00,607	..
(17)	Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Net	59,034	..	30,175	..	11,398	..	..	..	..	..	..	..	..	..	1,00,607	..

Statement showing the expenditure—Plan head-wise for the year 2015-2016—Contd.)

(Figures in thousands of ₹)

Sl. No.	Plan Head		Capital		DRF		D F		Capital Fund		R.S.F.		S.R.S.F.		OLWR		Total	
			Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
(1)	(2)		(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
7.	Railway Research Works	Gross	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	(18)	Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8.	Rolling Stock	Gross	8799132	..	630616	..	9328	..	..	..	..	..	..	..	..	..	9439076	..
	(21)	Credit	..	..	71632	..	..	..	..	..	..	..	..	..	..	..	71632	..
		Net	8799132	..	558984	..	9328	..	..	..	..	..	..	..	..	..	9367444	..
(i)	Locomotives	Gross	4067683	..	223167	..	9118	..	..	..	..	..	..	..	..	..	4299968	..
		Credit	..	..	71632	..	..	..	..	..	..	..	..	..	..	..	71632	..
		Net	4067683	..	151535	..	9118	..	..	..	..	..	..	..	..	..	4228336	..
(ii)	Loco Spares	Gross	144004	..	-170789	..	..	..	..	..	..	..	..	..	..	..	-26785	..
		Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	144004	..	-170789	..	..	..	..	..	..	..	..	..	..	..	-26785	..
(iii)	Carriages	Gross	4483225	..	356891	..	210	..	..	..	..	..	..	..	..	..	4840326	..
		Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	4483225	..	356891	..	210	..	..	..	..	..	..	..	..	..	4840326	..
(iv)	Wagons	Gross	-44827	..	214970	..	..	..	..	..	..	..	..	..	..	..	170043	..
		Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	-44827	..	214970	..	..	..	..	..	..	..	..	..	..	..	170043	..
(v)	Rail-cum-road service.	Gross	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(vi)	Others	Gross	149147	..	6377	..	..	..	..	..	..	..	..	..	..	..	155524	..
		Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	149147	..	6377	..	..	..	..	..	..	..	..	..	..	..	155524	..
(vii)	Track Machine	Gross	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9.	LA-LC TO IRFC, ETC.	Gross	..	..	..	..	..	4588200	..	..	..	..	..	..	..	..	4588200	..
	(22)	Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	..	..	..	..	..	4588200	..	..	..	..	..	..	..	..	4588200	..
10.	RD-SFT-UN-MAN	Gross	..	..	..	..	..	..	283201	194	..	..	..	..	..	..	283201	194
	(29)	Credit	..	..	..	..	..	..	128	..	..	..	..	..	..	..	128	..
		Net	..	..	..	..	..	..	283073	194	..	..	..	..	..	..	283073	194
11.	RD-SFT-OB/UB	Gross	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3981496	802
	(30)	Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	602772	..
		Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3378724	802
12.	Track Renewals	Gross	..	..	3981496	802	..	..	..	..	..	..	..	..	..	..	538943	..
	(31)	Credit	..	..	602772	..	..	..	..	..	..	..	..	..	..	..	11265	..
		Net	..	..	3378724	802	..	..	..	..	..	..	..	..	..	..	527578	..
13.	Bridge Works	Gross	..	..	538943	6	..	..	..	..	..	..	..	..	..	..	691694	..
	(32)	Credit	..	..	11265	..	..	..	..	..	..	..	..	..	..	..	5071	..
		Net	..	..	527678	6	..	..	..	..	..	..	..	..	..	..	686623	..
14.	Signalling and Tele-communication	Gross	..	..	284310	..	407384	..	..	..	..	..	..	..	..	..	..	..
	(33)	Credit	..	..	4781	..	290	..	..	..	..	..	..	..	..	..	..	..
		Net	..	..	279529	..	407094	..	..	..	..	..	..	..	..	..	..	..
15.	Taking of lines from P. & T.	Gross	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	(34)	Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16.	Electrification Project.	Gross	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	(35)	Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17.	Other Electrical Works.	Gross	766	..	22133	..	4709	..	..	..	..	..	..	..	..	..	27608	..
	Excluding Traction Distribution	Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	(36)	Net	766	..	22133	..	4709	..	..	..	..	..	..	..	..	..	27608	..

Statement showing the expenditure—Plan head-wise for the year 2014-2015—(Concl.)

(Figures in thousands of ₹)

Sl. No.	Plan Head	Capital		DRF		DF		Capital Fund		R.S.F.		S.R.S.F.		OLWR		Total	
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
18.	Other Electrical Works.	Gross	11696	..	64134	..	3176	..	..	..	..	..	..	..	..	79006	..
		Credit	..	..	23146	..	..	..	..	..	..	..	..	..	..	23146	..
	Traction distribution (37)	Net	11696	..	40988	..	3176	..	..	..	..	..	..	..	..	55860	..
19.	Machinery & Plant (41)	Gross	48642	..	140911	..	14209	..	..	..	..	..	..	..	..	203762	..
		Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	48642	..	140911	..	14209	..	..	..	..	..	..	..	..	203762	..
20.	Workshops (42)	Gross	160645	..	355222	..	209050	..	..	..	..	..	..	..	..	724917	..
		Credit	275	..	42	..	..	..	..	..	..	..	..	..	..	317	..
		Net	160370	..	355180	..	209050	..	..	..	..	..	..	..	..	724600	..
21.	Staff Quarters (51)	Gross	2745	..	136190	..	..	..	..	..	..	..	..	..	..	138935	..
		Credit	..	..	1430	..	..	..	..	..	..	..	..	..	..	1430	..
		Net	2745	..	134760	..	..	..	..	..	..	..	..	..	..	137505	..
22.	Amenities for Staff (52)	Gross	..	..	61169	..	241144	3405	..	..	..	..	..	..	..	302313	3405
		Credit	..	..	784	..	..	..	..	..	..	..	..	..	..	784	..
		Net	..	..	60385	..	241144	3405	..	..	..	..	..	..	..	301529	3405
23.	(I) Passenger Amenities. (53)	Gross	..	..	91518	..	865850	1703	..	..	..	..	..	..	..	957368	1703
		Credit	..	..	619	..	1139	..	..	..	..	..	..	..	..	1758	..
		Net	..	..	90899	..	864711	1703	..	..	..	..	..	..	..	955610	1703
24.	(II) Other Railway Users Amenities (53)	Gross	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25.	Investment in Govt. commercial under taking public under takings. (52)	Gross	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26.	Others specified Works. (54)	Gross	42179	..	10747	..	100889	..	..	..	..	..	..	..	..	153815	..
		Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		Net	42179	..	10747	..	100889	..	..	..	..	..	..	..	..	153815	..
27.	Stores Suspense	Gross	8542575	..	..	..	..	..	..	..	..	..	..	..	..	8542575	..
		Credit	8980759	..	..	..	..	..	..	..	..	..	..	..	..	8980759	..
		Net	-438184	..	..	..	..	..	..	..	..	..	..	..	..	-438184	..
28.	Manufacture Suspense	Gross	9737293	..	..	..	..	..	..	..	..	..	..	..	..	9737293	..
		Credit	9519619	..	..	..	..	..	..	..	..	..	..	..	..	9519619	..
		Net	217674	..	..	..	..	..	..	..	..	..	..	..	..	217674	..
29.	Miscellaneous Advance	Gross	594	..	..	..	..	..	..	..	..	..	..	..	..	594	..
		Credit	594	..	..	..	..	..	..	..	..	..	..	..	..	594	..
		Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30.	Grand Total ..	Gross	35702733	482640	6349197	802	2093666	5857	4588200	..	3080260	778	..	..	..	51814056	490077
		Credit	18612309	..	879349	..	1981	..	..	..	436	..	..	..	..	19494075	..
		Net	17090424	482640	5469848	802	2091685	5857	4588200	..	3079824	778	..	..	..	32319981	490077

Statement showing the break-up- of expenditure under the plan head “Rolling Stock” for the year 2015–2016.

21. Rolling Stock—

(Figures in thousands of ₹)

[illegible]

Statement showing the break-up of Expenditure under the Plan Head “ Machinery and Plant ” for the year 2015–2016.

(Figures in thousands of ₹.)

[illegible]

Statement showing the break-up of Expenditure under the Plan Head " Machinery and Plant " for the year 2015-2016— (Concl'd.)

Sl. No.	Plan Head	Capital		DRF		DF		Capital Fund		R.S.F.		S.R.S.F.		OLWR		Total	
		Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged	Voted	Charged
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
(v) Accounts	Gross Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(vi) Signal and Tele-communication	Gross Credit	..	..	842	..	1286	..	..	..	..	..	..	..	..	..	2128	..
	Net	..	..	842	..	1286	..	..	..	..	..	..	..	..	..	2128	..
(vii) Medical	Gross Credit	44	..	11826	..	3533	..	..	..	..	..	..	..	..	..	15403	..
	Net	44	..	11826	..	3533	..	..	..	..	..	..	..	..	..	15403	..
(viii) Security	Gross Credit	1231	..	503	..	..	..	..	..	..	..	..	..	..	..	1734	..
	Net	1231	..	503	..	..	..	..	..	..	..	..	..	..	..	1734	..
(ix) Operating	Gross Credit	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
	Net	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
(x) General	Gross Credit	61	..	..	..	205	..	..	..	..	..	..	..	..	..	266	..
	Net	61	..	..	..	205	..	..	..	..	..	..	..	..	..	266	..
Total Machinery and Plant	Gross Credit	48642	..	140911	..	14209	..	..	..	..	..	..	..	..	..	203762	..
	Net	48642	..	140911	..	14209	..	..	..	..	..	..	..	..	..	203762	..

11. Correction of Expenditure of Performance

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

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

(Figures in lakhs of ₹)

Sl. No.	Particulars	2013-14	2014-15	2015-16	Sl. No.	Particulars	2013-14	2014-15	2015-16
1.	Expenditure actually booked	1,15,688.69	1,30,458.92	1,39,997.64	II. Diesel—				
2.	Total extraneous factors contributing to increase in expenses such as payment of Productivity Linked Bonus, increase in Cost of Materials, Dearness Allowance, Interim Relief, Net effect of increment, etc.	8,888.69	13,554.08	27,457.79	(i)	Expenditure on Locomotives Workshop Repairs.	5,547.55	5,108.10	4,744.69
3.	Locomotives :				(ii)	Proportionate amount of extraneous factors.	426.23	530.71	930.58
I. Steam—					(iii)	Debits raised by CLW/CRJ, DLW, etc.	0.00	0.00	387.16
(i)	Expenditure on Locomotives Workshop Repairs.	31.28	68.67	110.78	(iv)	Comparable expenditure item (i) Minus item (ii) Minus (iii).	5,121.32	4,577.39	3,426.95
(ii)	Proportionate amount of extraneous factors.	2.40	7.13	21.73	(v)	Index of comparable expenditure (Per cent).	138.39	89.38	66.92
(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)]).	28.88	61.54	89.05	Broad Gauge	..	55.00	50.00	14.00
(v)	Index of Comparable expenditure (per cent).	69.44	213.07	308.35	Metre Gauge	..	1.00	1.00	1.00
(vi)	(a) Performance measured in terms of standard 1st Class or units repaired—				(b)	Performance measured per million equated engine kilometres—			
Broad Gauge	..	..	..	..	Broad Gauge	..	0.27	0.27	0.09
Metre Gauge	..	0.00	0.00	0.00	Metre Gauge	..	7.58	7.87	7.63
(b)	Performance measured per million equated engine kilometres—				III. Electrical—				
Broad Gauge	..	..	..	..	(i)	Expenditure on Locomotives workshop Repairs.	7,964.77	9,790.65	10,392.26
Metre Gauge	..	0.00	0.00	0.00	(ii)	Proportionate amount of extraneous factors.	611.96	1,017.20	2,038.24
					(iii)	Debits raised by South Central Railway for work done.	..	..	..
					(iv)	Comparable expenditure item (i) Minus item (ii) Minus (iii).	7,352.81	8,773.45	8,354.02

Sl. No.	Particulars	2013-14	2014-15	2015-16
(v)	Index of comparable expenditure (Per cent).	110.76	119.32	113.62
(vi)(a)	Performance measured in terms of standard 1st Class or units repaired—			
	Broad Gauge ..	402.76	375.20	322.80
	Metre Gauge ..	..	..	..
(b)	Performance measured per million equated engine kilometres—			
	Broad Gauge ..	1.73	1.39	1.20
	Metre Gauge ..	..	..	..
(c)	Performance measured per million Gross tonne kilometres—			
	Broad Gauge ..	0.007	0.672	0.537
	Metre Gauge ..	..	..	..

IV. Carriages—

(i)	Expenditure on Carriage Workshop Repairs.	29,447.70	33,553.75	34,990
(ii)	Proportionate amount of extraneous factors.	2,262.55	3,486.08	6,862.74
(iii)	Comparable expenditure [(Item (i) minus Item (ii) minus (iii).]	27,185.15	30,067.67	28,127.96
(iv)	Index of Comparable expenditure (Per cent)	108.50	110.60	103.47
(v)	(a) Performance measured in terms of number repaired.			
	(1) Passenger Carriages (in terms of four-wheelers)			
	Broad Gauge	2,903.00	3,901.00	3,266.00
	Metre Gauge	28.00	0.00	0.00
	(2) Other Coaching Vehicles			
	Broad Gauge	611.00	616.00	677.00
	Metre Gauge	0.00	0.00	0.00
	(3) Performance of passenger carriage measured per million passenger train kilometres—			
	Broad Gauge	57.50	58.56	62.11
	Metre Gauge	189.19	0.00	0.00
	(4) Performance of other coaching vehicles measured per million vehicle kilometres—			
	Broad Gauge	6.30	6.35	7.05

(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).	99.44	99.91	115.52
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V. Wagons—

(i)	Expenditure on Wagon work - shop Repairs.	4,206.11	5,169.19	5,834.58
(ii)	Proportionate amount .. of extraneous factors.	323.17	537.05	1,144.34
(iii)	Debits raised by other Railways for POH of S. Rly. Wagons.	3,707.07	4,640.19	5,120.23

Sl. No.	Particulars	2013-14	2014-15	2015-16
(iv)	Comparable expenditure (Item (i) Minus item (ii) Minus (iii)).	-175.87	-8.05	-429.99
(v)	Index of comparable expenditure (Per cent).	-49.14	-4.58	-244.49
(vi)	(a) Performance measured in terms of number repaired			
	Broad Gauge	105.00	133.00	2023.00
	(b) Performance measured per million wagon Kms. (in terms of four wheelers)—			
	Broad Gauge ..	0.20	0.24	0.41***
	(c) Performance measured per million net tonne kilometres—			
	Broad Gauge ..	0.006	0.007	0.013
(vi)	Weighted index of performance (weightage given on the basis of unit cost of repairs for the different gauge) (Per cent).	83.76	144.23	184.90
(vii)	Expenditure on other than loco carriage and wagon workshop repairs as booked.	68,491.28	76,768.56	83,924.63
(viii)	Proportionate amount of element of extraneous factors.	5,262.38	7,975.90	16,460.17
(ix)	Comparable expenditure (Item VII—Item VIII)	63,228.90	6,8792.66	67,464.46
(x)	Index of comparable expenditure (Per cent).	111.52	108.80	106.70
(xi)	Gross tonne kilometres (All traction goods and proportionate of mixed plus passenger EMU and Rail Cars) (in millions).	92,241	96,941	9,5376
(xii)	Index of Performance ..	103.97	105.10	103.40

*** In terms of 8 wheelers

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

(Figures in lakhs of ₹)			
Particulars	Actuals 2013-14	Actuals 2014-15	Actuals 2015-16
1. Gross expenditure under Grant No. 08-F.	56,623.83	64,797.73	68,942.55
2. Extraneous items to be excluded.—			
(a) Expenditure on Electrical services.	10,709.24	12,018.05	13,427.02
(b) Effect of Additional D. A. & I. R.	0.00	3,447.03	4,880.08
(c) Effect of PLB	0.00	61.42	37.55
(d) Increase in Cost of Stores	0.00	953.99	1,314.09
Total Item II ..	10,709.24	16,480.49	19,658.65
3. Comparable expenditure (Item 1 minus Item II).	45,914.59	48,317.24	49,283.90
4. Index of comparable -expenditure (Per cent)	100.00	105.23	107.34
5. Performance measured in terms of Train kilometres.	73,717.00	76,542.00	76,260.00
6. Index of performance (per cent)	100.00	103.83	103.45

Grant No. 9—Operating Expenses—Traffic—

(Figures in lakhs of ₹)

Particulars	Actuals 2013-14	Actuals 2014-15	Actuals 2015-16
1. Gross expenditure under Grant No. 08-F.	99,733.92	1,10,023.59	1,15,638.54
2. Extraneous items to be excluded.—			
(a) Effect of Additional D.A. & I.R.	0.00	6,351.21	10,029.25
(b) Effect of PLB	0.00	41.34	-98.19
(c) Effect of IRCA & IRFC transaction			
I. R. C. A.	0.00	2,870.38	-5,834.41
I. R. F. C.	0.00	7,048.00	19,389.00
Total Item II ..	0.00	10,570.17	23,485.65
3. Comparable expenditure (Item I, minus Item II)	99,733.92	99,453.42	92,152.89
4. Index of comparable —expenditure (Per cent).	100.00	99.72	92.40
5. Performance measured in terms of Train kilometres	73,717.00	76,542.00	76,260.00
6. Index of performance (Per cent).	100.00	103.83	103.45

Grant No. 10—Operating Expenses—Fuel

(Figures in lakhs of ₹)

Particulars	2013-14	2014-15	2015-16
I. Gross expenditure under Grant No.10—Operating Expenses—Fuel.	1,79,619.45	1,68,882.09	1,59,731.95
II. Extraneous factors contributing to increase/decrease in Gross expenditure —			
(1) Increase in rates of D. A. and I. R.	..	33.03	44.35
(2) Annual scale increase, Operating of posts and restructuring of cadre.	..	-9.53	-22.71
(3) Increase in other allowances.	..	-9.56	-19.98

(Figures in lakhs of ₹)

Particulars	2013-14	2014-15	2015-16
(4) Variation of sea-rail freight due to change in freight structures including reduction in subsidy.	..	..	..
(5) More/Less adjustment of storages.	..	..	..
(6) Increase/Decrease due to change in average rate of freight.	..	4.26	195.79
(7) Increase in prime cost of Coal.	..	-0.75	-2020
(8) Increase in prime cost of Diesel.	..	-12,540.85	-35,508.69
(9) Increase in average cess and sales tax on coal (due to revision of cess rate).	..	-23.25	3.19
(10) Increase in average cess and Sales tax on H. S. D. oil (due to change of supply point).	..	1,554.25	10,040.57
(11) Revision of Electricity charges including penal levy.	..	847.58	10,906.62
(12) Throw forward debits of K. P. Dock.	..	..	..
(13) Increase in average issue rate of H. S. D. oil.	..	..	..
(14) Reduction in average rate due to change in pattern.	..	..	..
(15) Arrears payment freight charges on Bengal Rail Borne coal.	..	..	..
Total II	..	-10,140.82	-14,363.07
III. Comparable Expenditure (Item I—Item II).	1,79,619.45	1,79,022.91	1,74,095.02
IV. Index of Comparable expenditure.	100.00	99.67	96.92
V. Performance measured in terms of Gross Tonne Kilometer of all tractions (in Millions).	92,241	9,941	95,376
VI. Index of Performance	100.00	105.10	10,340



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

New Lines Opened

Sl. No.	Divn.	Name of Work	Estimate Cost ₹. in Lakhs	Remarks
a) New lines opened during the year 2015-2016				
1.	MAS	Nil		
2.	SA	Nil		
3.	PGT	Nil		
4.	TVC	Nil		
5.	TPJ	Nil		
6.	MDU	Nil		
7.	CE/CN/ERS	Nil		
8.	CE/CN/MS	Nil		
9.	MTP	Nil		

2. New Lines Under Construction

Sl. No.	Division	Name of Works	Cost ₹. in crores	% of over all progress as on 31/03/16	Remarks
1(a). New Lines Under Construction					
1.	MAS	MMC-BBQ	2.40		
2.	SA	Nil			
3.	PGT	Nil			
4.	TVC	Nil			
5.	TPJ	Nil			
6.	MDU	Nil			
7.	CE/CN/ERS	Angamali-Sabarimala new BG line.	.0156600	8.00%	Angamali-Kaladi section work is in final stage.
		Guruvayur - Tirunavaya new BG line.	.0013771	1.50%	Periyar bridge at kaladi 82% Completed. GUV Yard work Phase II Completed.
8.	CE/CN/MS	Karur - Salem New line (85 kms) (PB No.2)	870.00	99%	Estimate for Rs.229.88 crores sanctioned by Board. Revised estimate for Rs.774.90 cr. vetted by finance and submitted to Railway Board for sanction. Railways have taken physical possession of required land except at a few locations of ROBs. Extra compensation court cases - out of 1300 cases, 240 cases finalised and the balance are pending in various courts. Section opened for passenger traffic from 25.05.2013. (Authorised speed 85 kmph) and handed over to Open Line Department on 26.07.2013.

Sl. No.	Division	Name of Works	Cost ₹. in crores	% of over all progress as on 31-03-16	Remarks
New Lines Under Construction—Contd.					
		Tindivanam-Gingee Tiruvannamalai (70 kms)- New line (PB No.4)	490.00	6%	Detailed estimate sanctioned by Railway Board for Rs.227.40 crores vide letter No.2008/W1/NL/SR/TT dated 21.07.2008. Details of land acquisition proposal submitted to the Tamil Nadu State Government during the month of June, July 2010 and December 2013. State Government has asked for depositing Rs.11.51 cr. towards land compensation and the same has been deposited. After getting adequate land, tenders will be called. In the meantime, agency fixed for construction of 8 major bridges. Out of 8 nos. 4 completed and 4 in progress. An amount of Rs.49.60 lakhs deposited towards forming of one land acquisition cell in Villupuram district for Tindivanam-Nagari New line project in addition to this project. Rs.47.89 lakhs deposited towards forming of land acquisition cell in Tiruvannamalai district for the project and Tindivanam-Nagari new line project.
		Tindivanam-Nagari (179.20 km)-New line (PB No.5)	1080	10%	Detailed estimate has been 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 21.07.2008. In Walajah Road - Arcot section (13 km) Walajah Road-Ranipet (6.5 km) completed. Ranipet-Arcot section (6.5 km) In Karai, Ranipetai & Arcot land taken over. For land in Veppur village, between Ranipet & Arcot, Hon'ble High Court has given direction for land acquisition process under normal clause instead of urgency clause. Land to be acquired as per new Act, a fresh proposal to be initiated. Review Petition filed in High Court for alignment. For remaining section, land acquisition is pending. As the District Collector of Villupuram, Tiruvannamalai, Vellore & Tiruvallur has expressed their inability to process for land acquisition with the existing staff available, they have requested to form a special cell. Railway has accepted and forming of special land acquisition cell is under process. Administrative sanction for land has been received in November 2011. State Government has asked for depositing Rs.57.62 crs. towards land compensation in Villupuram & Vellore districts and Railway has deposited the amount in Tiruvallur Dt. & Chittoor (A.P.) requirements are yet to be received. An amount of Rs.49.60 lakhs deposited towards forming of land acquisition cell in Villupuram district. Rs.47.89 lakhs deposited towards forming of land acquisition cell in Tiruvannamalai district for the project & Tindivanam-Tiruvannamalai new line project G.O. Issued for forming of land acquisition cell in Vellore District.
		Attipattu-Puttur (88.3 kms) (PB No.6)	528.00	1%	Work included in Pink Book in the year 2008-09 at a cost of Rs.446.87 crores. The detailed estimate for Rs.527.37 crs. Sanctioned by Railway Board vide No.2002/W-I/NL/S/1 dated 07.09.2011. Final location survey work completed. Originally the project was to be taken up under 50:50 cost sharing with Ennore Port Trust (Ministry of Shipping). However, EPT has recently advised that they would not be cost sharing the project as the anticipated traffic in the section is not expected to be realised. Board have been advised to take a decision in the matter.

Sl. No.	Division	Name of Works	Cost ₹. in crores	% of over all progress as on 31-03-16	Remarks
New Lines Under Construction—Contd.					
		Erode-Palani (91.05 kms) (PB No.7)	603.22	1%	New work included in Pink Book in the year 2008-09 at a cost of Rs.288.87 crores. Detailed estimate for Rs.603 crores has been prepared and submitted to Railway Board on 13.08.2010. Physical execution will be taken up after acquisition of adequate land and after getting sanction of the detailed estimate. All papers for the acquisition of the land for 3 districts submitted. In the mean time Railway Board vide their letter No.2007/W1/NL/SR/EP dt.08.12.2010 observed that this new line project is not considered necessary from operational point of view and a number of similar projects are not making much progress for want of funds. Accordingly, it was advised to State Government to provide land free of cost and share 50% of the balance cost of the project. Based on the above letter, State Government of Tamil Nadu has been requested to convey their consent to provide land free of cost and also to share 50% of the balance cost of the project vide this office letter No.W.193/XXII/27/CN dt.23.12.2010. In reply to this, the State Government of Tamil Nadu has expressed inability in providing land free of cost and also in sharing 50% of the balance cost of the project. This has been conveyed to Railway Board. This project has been frozen by Board vide letter No.2007/W-1/NL/SR/EP dated 06.07.2011 and again reconfirmed by Board vide letter No.2007/W-1/NL/SR/EP dated 05.02.2013. Once again Govt. of Tamil Nadu has been requested to provide land free of cost and also to share 50% of the cost of the project vide this office letter No.W.193/XXII/27/CN dt.22.11.2013. But, State Government has again reiterated that they are not in a position to consider the Railway's request vide their letter No.490/I.1/2011-13 dt.07.02.2014. As detailed estimate has not been sanctioned and project has been frozen by Board, tenders not called.
		Chennai-Cuddalore (via) Mamallapuram (179.28 kms) (PB No.8)	1200.00	7%	Work included in Pink Book in the year 2008-09 at a cost of Rs.523.52 crores & revised to Rs.1200 crs. During 2014-15. Final location survey is in progress. Part detailed Survey in Puducherry state has been completed. Part detailed estimate between New Puducherry and Varakalapattu for a length of 26.40 km at a cost of Rs.198.55 cr. has been submitted to Board on 30.09.2013. Further, part detailed estimate for Chengalpattu-Mahabalipuram costing Rs.324 Cr. has been sent to Board for sanction. Detailed estimates for the stretch between Puducherry & Mahabalipuram & Chennai (Perungudi) are under preparation. In the meantime Govt. of Puducherry has asked for revision of alignment on the Southern side of the existing VM-PDY railway line. Govt. of Puducherry has represented to the Railway Board for this revision of alignment. In turn the Railway Board has asked the Southern Railway to study the revision of alignment requested by the Govt. of Puducherry. SR has studied the revision of alignment as directed by the Railway Board and the revised alignment as concurred by Govt. of Puducherry and District of Cuddalore in Tamil Nadu State has been sent to Railway Board for approval.

Sl. No.	Division	Name of Works	Cost ₹. in crores	% of over all progress as on 31-03-16	Remarks
New Lines Under Construction—Contd.					
		Madurai-Tuticorin (via) Aruppukottai (143.5 kms) (PB No.9)	800.00	2%	Executive Director/Project Monitoring during the recent meeting with CE/CN&MTP/MS at Railway Board has directed to study the alignment as required by the Govt. of Puducherry. Hence, the Govt. of Puducherry has been addressed to give the consent for the alignment on the northern side of existing VM-PDY railway line. In turn Govt. of Puducherry has revised/changed the alignment on the Northern Side and addressed the SR for study of the same. SR is on the process of study of the revised/Changed alignment as suggested by the Govt. of Puducherry. New work included in the year 2011-12. State Government of Tamil Nadu has been requested to convey their consent to provide land free of cost and also to share 50% of the balance cost of the project vide this office letter No.337/1/203/CN dt.31.12.2010 but TN Govt. has turned down the request. Final location survey is on hand. For two block sections at Tuticorin (Milavittan) end, priority is given in view of new power plants coming up in the area. Milavitan-Melamarudur (17.5 km) part detailed estimate for Rs.120.70 cr. sanctioned by Railway Board vide letter No.2009/W1/NL/SR/MT dt.20.03.2014 after E21r pruning down the proposed cost of Rs.172.71 cr. duly deleting provision of two nos. of ROBs. As per approved E25 working section, the e+E21 estimate proposal of ROB over NH 45 B is revised as RUB. Hence, Board will be requested for sanction of RUB in NH 45B. State Govt. Officers have been persuaded for early land acquisition of this section between Milavittan & Melamarudur. Notification under section 3(2) was issued and District Collector, Tuticorin has conducted enquiry with land owners on 30.10.2015. Total extent of land required for this section alone is 73.8644 ha. and an amount of Rs.70 lakhs has been deposited towards establishment charges and cost of land. Final location Survey has been completed from Melamarudur to Madurai. Preparation of estimate is in progress. Additional amount of Rs.60.0 cr. has been re-appropriated to this project by Board. Tenders have been called for major bridges, earthwork as Tamil Nadu Govt. is ready to give advance possession of land once notification is issued.
		Sriperumbudur-Guduvanchery with spur to Irungattukottai-Avadi-Sriperumbudur (60 kms) (PB No.10)	1500	0%	New work included in the year 2013-14. Tender schedule for FLS sanctioned by GM. Contract awarded Railway Board permission for incurring expenditure for the project is yet to be communicated. Survey work is in progress. Index Plan & working plan for the section between Avadi and Sriperumbudur is approved. Working plan & working section between Sriperumbudur & Guduvanchery are also approved. Govt. of Tamil Nadu vide their letter (Ms) No.24 dt.02.03.2010 had communicated the Government's consent to share up to 50% of the project cost for Irungattukottai-Sriperumbudur-Oragadam-Guduvanchery.

Sl. No.	Division	Name of Works	Cost ₹. in crores	% of over all progress as on 2013-14	Remarks
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New Lines Under Construction—Concl'd.

Railway Board vide letter no.2007/W-1/NL/SR/ 1 dt.11.03.2011 and 19.05.2011 had advised for getting the consent of Govt. of Tamil Nadu for cost sharing and for providing land free of cost. Accordingly, Govt. of Tamil Nadu had been advised vide letter No.337/1/194/CN/Vol.II dt.18.03.2011 and 10.06.2011 to share 50% of the cost of the project and provide land free cost. State Govt. of Tamilnadu vide their letter (Ms) No.68 dt.4.3.16 have communicated the acceptance of Tamil Nadu Government to share 50% of the cost of the project subject to (a) forming a SPV between Railways and Govt. of Tamilnadu and (b) Sharing the project cost in ratio of 50:50 including the land cost as State Govt. equity in SPV.

MTP Nil

(1) (b) New lines Sanctioned Works during 2015-16.

MAS Nil

SA Nil

PGT Nil

TVC Nil

TPJ Nil

MDU Nil

CE/CN/ERS Nil

CE/CN/MS Nil

MTP	Chennai-Cuddalore via Mahabalipuram	267000	8%	Part Survey in Puducherry State has been completed. Part Detailed Estimate New Puducherry to Varakalpattu (26.40 kms) has been submitted to Railway Board.
	1) New Puducherry to Cuddalore (Varakalpattu) (with retension of LC)-26.4 kms.	(19856)		Part Detailed Estimate between Mahabalipuram and Puducherry is under Finance vetting. Final location Survey including soil investigation and detailed estimate for Chennai to Mahabalipuram is in progress.
	2) Mahabalipuram to Puducherry (with retension of LC)-106 Kms.	(99228)		Chengalpattu- Mahabalipuram - 27.5 Kms. sent to Railway Board on 31.12.14.
	3) Chennai (Perungudi)- Mahabalipuram-45Kms.	(115435)		
	4) Chengalpattu-Mahabalipuram - 27.5 Kms.	(32481)		

3. Surveys**a) SURVEYS SANCTIONED DURING THE YEAR 2015-16**

1	MAS	Nil		
2	SA	Nil		
3	PGT	Nil		
4	TVC	Nil		
5	TPJ	Nil		
6	MDU	Nil		
7	CE/CN/ERS	Nil		
8	CE/CN/MS	Reconnaissance Engineering cum Traffic survey for new line between Tiruppattur and Krishnagiri..	6.75	RET Survey ordered by Board vide Demands for Grants- Railways, 2015-16 as item No. 24. The survey estimate is vetted by finance and sanctioned by CAO/CN. Engineering abstract estimate under scrutinising by finance for vetting at a cost of Rs.366.33 crores.

Sl. No.	Division	Name of Works	Cost ₹. in Lakhs	Remarks
		Reconnaissance Engineering cum Traffic survey for new line between Kallakurichchi and Ulundurpet.	6.00	RET Survey ordered by Board vide Demands for Grants - Railways, 2015-16 as item No. 25. The survey estimate is vetted by finance and sanctioned by CAO/CN. Re-tender awarded. Field survey completed and yard diagrams sent to CTPM/MAS for approval and estimate under scrutinising by finance for vetting at a cost of Rs. 371.67 crores.
9	MTP	Nil		
b) SURVEYS IN PROGRESS DURING THE YEAR 2015-16.				
1	MAS	Nil		
2	SA	Nil		
3	PGT	Nil		
4	TVC	Nil		
5	TPJ	Nil		
6	MDU	Nil		
7	CE/CN/ERS	Nil	59.13	Final location survey in progress.
8	CE/CN/MS	Reconnaissance Engineering Cum Traffic survey for new line between Kanchipuram - Tiruvannamalai - Katpadi via Vandavasi.	30.03	Field survey completed and draft report/drawing submitted by the agency under scrutiny. Yard diagrams approved by CTPM. and Abstract estimate as vetted by finance at a cost of Rs. 1815.96 Cr. IRR is under preparation.
		Reconnaissance Engineering cum Traffic Survey for new line between Kumbakkonam and Vridhachalam via Jayankondam & Andimadam.	10.05	Field Survey work completed and draft report/drawings submitted by the agency under scrutiny. Yard diagrams approved by CTPM and abstract estimate as vetted by finance at a cost of Rs.1008.68 Cr. IRR is under preparation.
		Reconnaissance Engineering cum Traffic Survey for new line between Tirunelveli and Sankarankovil via Pettai, Pudur, Sendamaram, Veerasigamani.	24	Field Survey work completed and draft report/drawings submitted by the agency under scrutiny. Yard diagrams approved by CTPM and abstract estimate as vetted by finance at a cost of Rs.655.84 Cr. IRR is under preparation.
CE/CN/MS		Reconnaissance Engineering cum Traffic Survey for new line between Aloor - Nagercoil - Chettikulam.	3.60	Field Survey work completed and draft report/drawings submitted by the agency under scrutiny. Yard diagrams approved by CTPM and abstract estimate as vetted by finance at a cost of Rs.293.35 Cr. IRR is under preparation.
		Reconnaissance Engineering cum Traffic Survey for new line between Tiruppattur and Krishnagiri.	6.75	RET Survey ordered by Board vide Demands for Grants - Railways, 2015-16 as item No.24. The survey estimate is vetted by finance and sanctioned by CAO/CN. Engineering abstract estimate under scrutinising by finance for vetting at a cost of Rs.366.33 Cr.

Sl. No.	Division	Name of Works	Cost ₹. in Lakhs	Remarks
Survey—Contd.				
		Reconnaissance Engineering cum Traffic Survey for new line between Kallakurichchi abd Ulundurpet.	6.00	RET Survey ordered by Board vide Demands for Grants - Railways, 2015-16 as item No.25. The survey estimate is vetted by finance and sanctioned by CAO/CN. Tender called for survey work, opened on 02.06.2015 and discharged. Re-tender awarded. Field survey completed and yard diagram sent to CTPM/MAS for approval and estimate under scrutinising by finance for vetting at a cost of Rs.371.67 Cr.
9	MTP	NI		
c) SURVEYS COMPLETED DURING THE YEAR 2015-16.				
1	MAS	NI		
2	SA	NI		
3	PGT	NI		
4	TVC	NI		
5	TPJ	NI		
6	MDU	NI		
7	CE/CN/ERS	NI		
8	CE/CN/MS	Reconnaissance Engineering cum Traffic Survey for a new BG line from Morappur to Dharmapuri via. Ranimukkanur and Mukkanur.	35.9	Civil Engineering 206.16 Electrical: 5.62 OHE: 5.50 S&T: 21.67 Total Cost :Rs.238.95 (Rs.146.42 Cr. & IRR: (-) 6.682%) and ROR:(-) 8.040% (Land costRs.22.38 Cr.) Survey Report submitted to Railway Board on 11.02.2008. Railway Board asked for recast vide letter dt.08.05.2008. Cost updated report submitted to Railway Board on 27.06.2008. Now, Railway Board has ordered for updating in 2013-14. Updated survey report was submitted to Railway Board on 28.02.2014. Railway Board has shelved the project vide their letter No.2014/W-1/NL/SR/MD dated 09.09.2015. Further clarifications sought by Railway Board vide letter dated 16.09.2015 is replied on 23.09.2015. Again, clarifications sought by Railway Board vide letter dated 21.12.2015. The revised abstract estimate/draft report sent to Railway Board on 08.01.2016 at a cost of Rs.194.26 Cr. Railway Board has sanctioned the project in the current year 2016-17.
8	CE/CN/MS	Reconnaissance Engineering cum Traffic Survey for a new BG line from Madurai to Karaikkudi via. Melur and Tiruppattur Road.	85.7	Civil Engineering 577.08 Electrical: 24.73 OHE: 4.04 S&T: 43.65 Total Cost : Rs.649.50 IRR is:(-) 7.742% (Land costRs.89.07Cr.) Survey Report submitted to Railway Board on 29.07.2008. Railway Board has ordered for updating in 2013-14. Updated survey report was submitted to Railway Board on 27.11.2014. Railway Board has shelved the project vide letter No.2015/W-1/NL/SR/MKD dated 15.01.2016.
		Updating of Reconnaissance Engineering cum Traffic Survey for a new BG line from Thanjavur to Ariyalur via.Tirumanur.	50.35	Civil Engineering 416.07 Electrical: 6.12 OHE: 1.76 S&T: 28.14 Total Cost : Rs.452.09 ROR:(-)0.048% (Land costRs.47.86Cr.) Survey Report submitted to Railway Board on 09.07.2008. Railway Board has ordered for updating in the year 2013-14. Updated survey report was submitted to Railway Board on 30.06.2014. Further, clarification sought by Railway Board vide letter dated 22.02.2016 and replied on 28.03.2016 with revised cost of Rs.461.52 Cr.

Sl. No.	Division	Name of Works	Cost Rs.in Lakhs	Remarks
Survey--Concl'd.				
		Preliminary Engineering cum Traffic 25.37 Survey for a new BG line (3rd & 4th) between Attipattu and Gummidipundi.	Civil Engineering 148.66 Electrical: 4.44 OHE: 64.76 S&T: 87.27 Total Cost : Rs.305.13 ROR:(-)0.565% (Land costRs.8.57Cr.)	Report submitted to Railway Board on 29.10.2010. Clarification sought by Railway Board vide letter dated 28.12.2011. Based on the Boards letter the remarks are received from CTPM on 22.02.2012. Updated abstract estimate sent to Railway Board on 23.12.2012 at a cost of Rs.315.85 Cr. The revised IRR is (+) 4.819% also sent to Board on 03.04.2013. And again clarifications sought by Railway Board vide letter dated 12.09.2013 is replied. Further, clarifications sought by Railway Board vide letter dated 21.01.2016 and replied on 14.03.2016 at a revised cost of Rs.308.03 Cr.
		Updating of new BG line between 101 Jolarpettai and Hosur (via) Krishnagiri	Civil Engineering 63112.68 Electrical: 1575.57 OHE: 244.84 S&T: 3858.98 Total Cost : Rs.687.92 ROR:(-)2.522% (Land costRs.18.67Cr.)	Survey Report sent to Railway Board on 31.01.2011. Railway Board asked for clarification and replied on 31.03.2011. Railway Board's has shelved the project vide letter No.2011/W 1/NL/SR/JH dt.08.08.2011.
CE/CN/MS		Updating survey for a new BG line 38.6 between Chennai and Sriperumbudur via Saidapet, Kulappakkam, Pononamallee & Pudupper.	Civil Engineering 818.12 Electrical: 16.64 OHE: 56.20 S&T: 24.53 Total Cost : Rs.915.19 ROR:(-)9.534% (Land costRs.679.25Cr.)	Survey Report submitted to Railway Board on 31.01.2014. Further, clarification sought by Railway Board vide letter dated 21.01.2016 and replied on 08.03.2016 with revised cost of Rs.926.97 Cr.
		Updating of RETS for a new line from 134 Dindigul to Kumuli via Bodinayakkanur (Bodi) and alternative via Teni.	Civil Engineering 707.52 Electrical: 44.53 OHE: 1.22 S&T: 74.95 Total Cost : Rs.828.22 ROR:(-)3.669% (Land costRs.55.15Cr.)	Survey Report was submitted to Railway Board on 22.05.2014. Observations asked by Board is replied. Railway Board's decision in this connection is awaited.
	123 (Teni)		Civil Engineering 618.39 Electrical:41.19 OHE: 1.22 S&T: 66.77 Total Cost : Rs.727.57 ROR:(-)0.445% (Land costRs.57.12Cr.)	

GM'S ANNUAL NARRATIVE REPORT FOR 2015-16.**Lines closed during 2015-16.**

Sl.No.	Divn.	Name of work.	Cost Rs. in lakhs.	Remarks
1	MAS	- NIL -		
2	SA	- NIL -		
3	PGT	- NIL -		
4	TVC	- NIL -		
5	TPJ	- NIL -		
6	MDU	- NIL -		
7	CE/CN/ERS	- NIL -		
8	CE/CN/MS	- NIL -		
9	MTP	- NIL -		

PROGRESS OF MAJOR PROJECTS COSTING OVER RS.20 LAKHS & ABOVE UNDER VARIOUS PLAN HEADS UP TO 31/03/2016

							Amount in lakhs of Rs.
S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
1.0	NEW LINES						
1	Karur - Salem New Line (85 kms) (PB No.2)	87000	1996 - 97	2013	83045	99%	Estimate for Rs.229.88 crores sanctioned by Board. Revised estimate for Rs.774.90 cr. vetted by finance & submitted to Railway Board for sanction. Railways have taken physical possession of required land except at a few locations of ROBs. Extra compensation court cases - out of 1300 cases, 240 cases finalised and the balance are pending in various courts. Section opened for passenger traffic on 25/05/2013 (authorised speed - 85 kmph) and handed over to Open Line Department on 26/07/2013.
2	Tindivanam - Gingee - Tiruvannamalai (70 km) - New line (PB No.4)	49000	Supp.D.No. 2006-07		5432	6%	Detailed estimate sanctioned by Railway Board for Rs. 227.40 crores vide letter No.2008/W1/ NL/SR/TT dated 21/07/2008. Details of land acquisition proposal submitted to the Tamiladu state Government during the month of June, July 2010 & December 2013. State Government has asked for depositing Rs.11.51 cr. towards land compensation and the same has been deposited. After getting adequate land, tenders will be called. In the meantime, agency fixed for construction of 8 major bridges. Out of 8 nos., 4 completed & 4 in progress. An amount of Rs.49.60 lakhs deposited towards forming of one land acquisition cell in Villupuram district for Tindivanam-Nagari New line project in addition to this project. Rs.47.89 lakhs deposited towards forming of land acquisition cell in Tiruvannamalai district for this project & Tindivanam-Nagari new line project.
3	Tindivanam - Nagari (179.20 km) - New line (PB No.5)	108000	Supp.D.No. 2006-07		20124	10%	Detailed estimate has been 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 21/07/2008. In Walajah Road - Arcot section (13 km), Walajah Road-Ranipet (6.5 km) completed. <u>Ranipet - Arcot section (6.5 km)</u> In Karai, Ranipetai & Arcot land taken over. For land in Veppur village, between Ranipet & Arcot, Hon'ble High Court has given direction for land acquisition process under normal clause instead of urgency clause. Land to be acquired as per new Act, a fresh proposal to be initiated. Review petition filed in High Court for alignment. For remaining section, land acquisition is pending. As the District Collector of Villupuram, Tiruvannamalai, Vellore & Tiruvallur has expressed their inability to process for land acquisition with the existing staff available, they have requested to form a special cell. Railway has accepted and forming of special land acquisition cell is under process. Administrative sanction for land has been received in November 2011. State Government has asked for depositing Rs.57.62 crs. towards land compensation in Villupuram & Vellore districts, and Railway has deposited the amount. In TiruvallurDt. & Chittoor(A.P.), requirements are yet to be received. An amount of Rs.49.60 lakhs deposited towards forming of land acquisition cell in Villupuram district. Rs.47.89 lakhs deposited towards forming of land acquisition cell in Tiruvannamalai district for this project & Tindivanam-Tiruvannamalai new line project. G.O issued for forming of land acquisition cell in vellore district.

PROGRESS OF MAJOR PROJECTS COSTING OVER RS.20 LAKHS & ABOVE UNDER VARIOUS PLAN HEADS UP TO 31/03/2016

							Amount in lakhs of Rs.
S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
4	Attippattu - Puttur (88.3 kms) (PB No.6)	52800	2008-09		304	1%	Work included in Pink Book in the year 2008-09 at a cost of Rs.446.87 crores. The detailed estimate for Rs 527.37 Crs sanctioned by Railway Board vide No.2002/ W-1/NL/S/1 dated 07/09/2011. Final Location Survey work completed. Originally the project was to be taken up under 50 : 50 cost sharing with Ennore Port Trust (Ministry of Shipping). However, EPT has recently advised that they would not be cost sharing the project as the anticipated traffic in the section is not expected to be realised. Board have been advised to take a decision in the matter. Land requirements furnished to Tamilnadu and Andhra Pradesh State Governments. Regarding the issue of entrusting the physical execution of the project to RVNL, Railway Board have now advised that this project should stay with Southern Railway. Land plan schedule for 22 villages in Tamilnadu area and 22 villages in A.P submitted to concerned District Collectors for acquiring the land. Budget Grant for land payment is not available. Though detailed estimate is sanctioned, tenders are not called for want of Board's decision.

PROGRESS OF MAJOR PROJECTS COSTING OVER RS.20 LAKHS & ABOVE UNDER VARIOUS PLAN HEADS UP TO 31/03/2016

							Amount in lakhs of Rs.
S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
5.	Erode - Palani (91.05 kms) (PB No.7)		60322	2008-09	164	1%	New work included in Pink Book in the year 2008-09 at a cost of Rs.288.87 crores. Detailed estimate for Rs.603 crores has been prepared and submitted to Railway Board on 13/08/2010. Physical execution will be taken up after acquisition of adequate land and after getting sanction of the detailed estimate. All papers for the acquisition of the land for 3 districts submitted. In the mean time Railway Board vide their letter No.2007/ W-1/NL/SR/EP dt.08/12/2010 observed that this new line project is not considered necessary from operational point of view and a number of similar projects are not making much progress for want of funds. Accordingly, it was advised to State Government to provide land free of cost and share 50% of balance cost of the project. Based on the above letter, State Government of Tamilnadu has been requested to convey their consent to provide land free of cost and also to share 50% of the balance cost of the project vide this office letter No.W.193/XXII/27/ CN dt.23/12/2010. In reply to this, the State Government of Tamilnadu has expressed inability in providing land free of cost and also in sharing 50% of the balance cost of the project. This has been conveyed to Railway Board. This project has been frozen by Board vide letter No.2007/W-1/NL/SR/EP dt.06/07/2011 and again reconfirmed by Board vide letter No.2007/W-1/NL/SR/EP dt.05/02/2013. Once again Govt. of Tamilnadu has been requested to provide land free of cost & also to share 50% of the cost of the project vide this office letter No.W.193/XXII/27/CN dt.22/11/2013. But, State Govt. has again reiterated that they are not in a position to consider the Railway's request vide their letter No.490/ I.1/2011-23 dt.07/02/2014. As detailed estimate has not been sanctioned and project has been frozen by Board, tenders not called.

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PROGRESS OF MAJOR PROJECTS COSTING OVER RS.20 LAKHS & ABOVE UNDER VARIOUS PLAN HEADS UP TO 31/03/2016

Amount in lakhs of Rs.

S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
1.0	NEW LINES						
6	Chennai - Cuddalore (via) Mahabalipuram (179.28 kms) (PB No.8)	120000	2008-09		226	7%	Work included in Pink Book in the year 2008-09 at a cost of Rs.523.52 crores & revised to Rs.1200 crs. during 2014-15. Final location survey is in progress. Part detailed survey in Puducherry state has been completed. Part detailed estimate between New Puducherry and Varakkalpattu for a length of 26.40 Km at a cost of Rs.198.55 cr. has been submitted to RB on 30/09/2013. Further, part detailed estimate for Chengalpattu-Mahabalipuram costing Rs.324 Cr. has been sent to Board for sanction. Detailed estimates for the stretch between Puducherry & Mahabalipuram and Mahabalipuram & Chennai (Perungudi) are under preparation. In the meantime Govt.of Puducherry has asked for revision of alignment on the Southern side of the existing VM-PDY railway line. Govt.of Puducherry has represented to the RB for this revision of alignment. Inturn the RB has asked the Southern Railway to study the change of alignment requested by the Govt.of Puducherry. SR has studied the revision of alignment as directed by the RB and the revised alignment as concurred by Govt.of Puducherry and District of Cuddalore in Tamilnadu state has been sent to RB for approval. Executive Director/Project Mointoring during the recent meeting with CE/CN&MTP/MS at RB has directed to study the alignment as required by the Govt.of Puducherry. Hence the Govt.of Puducherry has been addressed to give the consent for the alignment on the Northern side of existing VM-PDY railway line. In turn Govt.of Puducherry has revised/changed the alignment on the Northern side and addressed the SR for study of the same. SR is on the process of study of the revised/changed alignment as suggested by the Govt.of Puducherry.

PROGRESS OF MAJOR PROJECTS COSTING OVER RS.20 LAKHS & ABOVE UNDER VARIOUS PLAN HEADS UP TO 31/03/2016

Amount in lakhs of Rs.

S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
7	Madurai - Tuticorin (via) Aruppukkottai (143.5 km) (PB No.9)	80000	2011-12		2225	5%	New work included in the year 2011-12. State Government of Tamilnadu has been requested to convey their consent to provide land free of cost and also to share 50% of the balance cost of the project vide this office letter No.W.337/1/203/CN dt.31/12/2010 but TN Govt. has turned down the request. Final location survey is on hand. For two block sections at Tuticorin (Milavittan) end, priority is given in view of new power plants coming up in the area. Milavittan-Melamarudur (17.5 km) part detailed estimate for Rs.120.70 cr. sanctioned by Railway Board vide letter No.2009/WI/NL/SR/MT dt.20/03/2014 after pruning down the proposed cost of Rs.172.71 cr. duly deleting provision of two nos. of ROBs. As per approved working section, the estimate proposal of ROB over NH45B is revised as RUB. Hence, Board may consider the sanction of RUB for NH45B. State Govt. Officers have been persuaded for early land acquisition of this section between Milavittan & Melamarudur. Notification under section 3(2) was issued and District Collector, Tuticorin has conducted enquiry with land owners on 30/10/2015. Total extant of land required for this section alone is 73.8644 Ha. and an amount of Rs.70 lakhs has been deposited towards establishment charges and cost of land.

S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
8	Sriperumbudur-Guduvanchery with spur to Irungattukkottai - Avadi - Sriperumbudur (60 km) (PB No.10)	150000	2013-14		26	0%	Final Location Survey has been completed from Melmarudur to Madurai. Preparation of estimate is in progress. Additional amount of Rs.60.0 cr. has been re-appropriated to this project by Board. Tenders have been called for major bridges, earthwork as Tamilnadu Govt. is ready to give advance possession of land once notification is issued. New work included in the year 2013-14. Tender schedule for FLS sanctioned by GM. Contract awarded. Railway Board permission for incurring expenditure for the project is yet to be communicated. Survey work is in progress. Index plan & working plan for the section between Avadi & Sriperumbudur is approved. Working plan & working section between Sriperumbudur & Guduvanchery are also approved. Govt. of Tamilnadu vide their letter (Ms) no.24 dt.02/03/2010 had communicated the Government's consent to share up to 50% of the project cost for Irungattukkottai-Sriperumbudur-Oragadam-Guduvanchery. Railway Board vide letter No.2007/W-1/NL/SR/1 dt.11/03/2011 and 19/05/2011 had advised for getting the consent of Govt. of Tamilnadu for cost sharing and for providing land free of cost. Accordingly, Govt. of Tamilnadu had been advised vide letter No.W.337/1/194/CN/Vol.II dt.18/03/2011 & 10/06/2011 to share 50% of the cost of the project and provide land free of cost. State Government of Tamilnadu vide their letter (Ms) No.68,dated 4.3.16 have communicated the acceptance of Tamilnadu Government to share 50% of the cost of the project subject to (a) Forming a SPV between Railways and Government of Tamilnadu and (b) Sharing the project cost in ratio of 50:50 including the land cost as State Govt. equity in SPV.
2.0	GAUGE CONVERSION						
1	Tiruchchirappalli - Thanjavur - Nagore - Karaikal (145.33 Km) with extension Nagappattinam-Velankanni-Tiruthuraiipundi via Thirukkuvalai (43 Kms.) and new material modification of Peralam-Karikal new line (23 km) Total=211.33 km (PB No.11)	98000	1995 - 96		60855	70%	Estimates sanctioned details: Tiruchchirappalli - Thanjavur - Nagore section -Rs.274.20 cr. vide letter No.92/W1/GC/S/25 dt.18/06/2010. Nagore - Karaikal section - Rs.86.44 cr. vide letter No.92/W1/GC/S/25 dt.18/06/2010. Nagappattinam - Velankanni section - Rs.48.35 cr. vide letter No.92/W1/GC/S/25 dt.18/06/2010. Nagappattinam - Thirukkuvalai - Tiruthuraiipundi section - Rs.126.14 cr. vide letter No.2007/W-1/NL/SR/NT/1 dt.24/07/2008 Material Modifications: i) Nagore - Karaikal (11 kms) - Rs.33.78 crores on 20/11/2002. ii) Nagappattinam - Velankanni New Line (10 kms) - Rs.23.69 crores on 30/05/2002. iii) Nagappattinam - Tiruthuraiipundi (via Thirukkuvalai New Line (43 kms) - Rs.126.14 cores on 22/07/2008. iv) Additional facilities at Nagore and Nagappattinam - Rs.4.17 crores on 18/09/2000. v) New line Karaikal-Peralam (23 km) - Rs.110.19 in the Pink Book 2013-14. Revised estimate sanctioned for Rs.535.13 crores vide letter No.92/W1/GC/S/25 dt.18/06/2010. Sections Opened: i) Tiruchchirappalli - Thanjavur new parallel BG (50kms) on 01/01/1998. ii) Thanjavur - Tiruvarur (55kms) on 12/01/2007. iii) Tiruvarur - Nagore (30.37 Kms) on 27/02/2009. iv) Nagore-Karaikal Port- Freight traffic commissioned on 27/01/2010. v) Nagappattinam - Velankanni (10.3 km) - Works completed and the section commissioned for passenger traffic on 20/12/2010. Section handed over to Open Line Dept. On 28/12/2014.

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S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
2	Quilon - Tirunelveli - Tiruchendur & Tenkasi - Virudunagar - Gauge Conversion (357 Kms) (P.B.No.12)	117000	1997 - 98		99058	86%	vi) Nagore - Karaikkal (10 km) on 17/12/2011. Section handed over to Open Line Dept. On 31/12/2014. Section in progress: Nagappattinam - Thirukuvalai - Tiruturaipundi New line Government of Tamilnadu has approved the land acquisition and fund deposited for Nagappattinam District only towards land cost. Fund deposited for Thiruvarur District. Proposal for Land acquisition has been submitted to State Government and acquisition of land - 95 % completed. In Nagappattinam District, 95.09 Ha. has been acquired. In Thiruvarur District 9.90 ha. received. Major bridges 11 Nos. are in progress. Earthwork & minor bridges for 3 sections are in progress For balance sections, tenders are called Karaikal- Peralam has been included as a material modification. Exg ground level taken departmentally. Working section finalised. GAD for major bridge approved. Detailed estimate at a cost of Rs. 259.78 crs. sent to Board on 01/07/2013. As opined by Board (Member Traffic) during the meeting on 01/08/2013, the detailed estimate was reviewed and cost pruned down to Rs.177.69 cr. and sent to Board on 07/08/2013. Board has advised vide letter No.92/W-1/GC/S/25 dt.12/02/2014 to verify whether Port can be asked to invest under appropriate participative models available on the Railways. Accordingly, Karaikal Port Limited has been requested vide letter No.W.193/T//CN/Vol.VII dt.07/03/2014 to communicate the funding scheme of the project in order to take up the project with a view of commissioning early. Subsoil investigation work in progress. Status of the estimate: Detailed estimate sanctioned by Railway Board for all sections as follows: 1) Virudunagar - Tenkasi, Tenkasi-Tirunelveli-Tiruchendur sections for Rs.327.61 cr. vide letter No.97/W-1/GL/S/5 dt. 20/02/2001. 2) Quilon - Punalur section for Rs.103.24 crores vide letter No.97/W-1/GL/S/5 dt. 22/07/2005. 3) Tenkasi - Sengottai for Rs.33.63 cr. vide letter No.97/W-1/GL/S/5 dt.10/08/2006. 4) BPAC & OFC for Virudunagar-Tenkasi-Tirunelveli-Tiruchendur (S&T) for Rs.9.07 cr. included as material modification vide letter No.97/W-1/GL/S/5 dt.16/04/2008. 5) Sengottai - Punalur section for Rs.357.70 cr. vide letter No.97/W-1/GL/S/5 dated 24/11/08. 6) Providing coach maintenance facilities at Tirunelveli station for Rs.11.10 cr. included as material modification vide letter No.97/W-1/GL/S/5 dt.26/09/2011. 7) The material modification estimate for providing new tunnel & viaduct for easing out 12 degree curve was sanctioned by Board vide letter No.97/W1/GC/S/5/3 dt.24/03/2015. 8) The total cost sanctioned for the above project vide Railway Board's letter No.97/W-1/GL/S/5 dt.16/11/2015 is Rs.893.69 cr. Revised estimate is on hand. Sections Opened: 1) Gauge Converted section between Virudunagar and Rajapalayam (52 kms) was opened for passenger traffic on 01/06/2003. 2) Gauge Converted section between Rajapalayam and Tenkasi (69 Km) was opened for passenger traffic on 20/09/2004. 3) The section between Tenkasi and Sengottai (8 Kms) opened for passenger traffic on 07/02/2008.

S.No	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
3	Madurai - Rameswaram - Gauge Conversion (161 kms) (PB No.13)	44169	1997 - 98	2007	37135	99%	4) The section between Tirunelveli and Tiruchendur(61.21 kms) was opened for passenger traffic on 27/09/2008. 5) The section between Quilon and Punalur (45 Kms) opened for passenger traffic on 12/05/2010. Section handed over to Open Line on 31/03/2012. 6) The section between Tirunelveli & Tenkasi (72 km) opened for passenger traffic on 21/09/2012. Section handed over to Open Line on 24/04/2013. Section completed: Sengottai - Bhagavathipuram (7 km) - Proposed to be commissioned together up to Punalur. Section in progress: Sengottai - Punalur section - MG traffic has been closed on 20/09/2010 and various works are in progress. Progress is slow as ghat sections are involved. Aryankavu - Edamann (23 km) All works are being taken up slowly including tunnels, jacketing of arches, station buildings & ballast for want of sufficient budget grant in 2014-15. Progress on Edamann - Punalur section will be reported separately by CAO/CN/ERS. Issues pending: (i) Tenders have been awarded for most of the works & they are in progress. Against the total cost of the project for Sengottai-Punalur section out of Rs.357 cr., Rs.159.0 cr. has been spent. (ii) There are five curves with radius more than 10° (10.3° to 10.6°) and one curve of 12.3°. Though all the six curves are processed for retention & condonation, efforts are being taken up for flattening five curves to 10° with extra rock blasting/widening of arch bridges involved with all the difficulties with close proximity of National Highways 208 and inhabitation. For flattening 12.3° curve to 10° curve, one additional tunnel and viaducts are involved for which agencies have been fixed. (iii) Tunnel widening works are in progress. five tunnels (totalling 1372 m length) are involved. For 4 tunnels, widening has been completed, shotcreting and other miscellaneous works are balance. For fifth tunnel (T5), work is in progress for the lined portion. (iv) Masonry arch major bridges (14 Br./80 spans). RDSO has not cleared Railway's proposal for slabs. Jacketing has become necessary. Agency has been fixed for all the arch bridges and 6 bridges completed and works are in progress for balance 8 bridges. (v) Board have approved for adoption of maximum 10° curve and use of 60 kg 90 UTS rails instead of head hardened rails in this ghat section along with construction of 115 m long tunnel and 12x10 m long (PSC "I" girder viaduct vide letter No.97/W1/GC/S/5/3 dt.24/03/2015. 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 on 17/03/2006. The section between Madurai & Manamadurai was opened for passenger traffic on 30/04/2005. The section between Manamadurai and Rameswaram (114 kms) opened for passenger traffic on 12/08/2007. Pamban crossing station completed and handed over to Open Line Dept. on 27/09/2013. Officers rest house at Manamadurai completed.

S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
4	Thanjavur - Villupuram Gauge Conversion (192 Kms) (RVNL Project) (PB No.14)	66501	1998 - 99	2010	12205	100%	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. Part detailed estimate for Kumbakonam - Villupuram section was sanctioned by RVNL for Rs.283.83 crores on 22/11/2004. As per Railway Board's letter No.2004/W-1/RVNL/22 dated 08/11/2004 Gauge Conversion from Kumbakonam to Mayiladuturai Jn. is assigned to S. Railway Construction for execution. Thanjavur - Kumbakonam Section (39 kms) was opened for passenger traffic on 02/05/2004. GC work between Kumbakonam & Mayiladuturai (31 kms) has been inaugurated and opened for passenger services on 17/06/2006 and handed over to Division on 27/02/2008. Gauge conversion of Villupuram - Mayiladuturai (122 kms) section executed by RVNL. All works completed and section opened for passenger traffic on 23/04/2010. Section dedicated to nation on 10/05/2010 by Shri G.K.Vasan, Hon'ble Union Minister in the presence of other distinguished guests. The ROBs in lieu of LC no. 168,181,228,248 (chord line of Villupuram- Trichchirappalli), 166,304 (main line of Villupuram- Trichchirappalli), 281 (Trichchirappalli - Dindigul) are completed and will be commissioned for road traffic before 31/03/2015.(except for LC. no. 248(chord line) where State Govt. work in under progress and LC no.304 (main line) as state Govt. portion o the work is yet to be started).
5	Cuddalore - Salem via Vriddhachalam - Gauge Conversion (191 kms) (RVNL Project) (PB No.15)	55664	1999 - 2000	2007	30372	93%	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 section was sanctioned by Railway Board for Rs.187.09 crores on 06/01/2004. Vriddhachalam - Vadalur (27 km) was opened for traffic on 06/01/2003. Vadalur - Cuddalore Port Junction (30 Km) was opened for Passenger traffic on 29/12/2003. The section between Salem and Attur has been executed by RVNL. The full length of project between Cuddalore and Salem has been brought under the category of "RVNL Project". As authorised by RVNL, works have been taken up by S. Railway between Vriddachalam & Attur (83.02km). Vriddhachalam - Salem section (134 km) is opened for passenger traffic on 18/11/2007. Material modification 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. Survey completed and the proposed alignment submitted along with LP schedule. The requisition for land acquisition has been given to State Government. Tenders will be called for physical execution of works, after getting the land. Revised estimate for Rs.128.99 cr. sent to Board vide letter No.W.193/VII/3/CN/Vol.III dt. 11/02/2014. As per Railway Board's observation dt.07/03/2014, the estimate has been revised at a cost of Rs.116.62 cr. and sent to Board vide letter No.W.193/VII/3/CN/Vol.III dt.10/06/2014. Board has now called for some more details. Board queries dated 05/08/2014 replied on 12/08/2014. Again Board's queries dt.08/05/2015 replied on 13/05/2015. Again Board's clarifications have been replied on 22/06/2015 & 10/12/2015. Now, Board have sanctioned the detailed estimate for Rs.116.61 cr. vide letter No.2001/W-I/GC/S/1/PDE dt.21/12/2015. With the sanction of material modification estimate, the total sanctioned cost for the above project goes to Rs.377.71 cr.

S.No	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
6	Tiruchchirappalli - Manamadurai - Gauge Conversion (150 Kms.) (PB No.16)	41000	2000 - 01	2008	39480	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 Pudukkottai (53 kms) was opened for passenger traffic on 5/01/2007 and the section between Pudukkottai and Karaikkudi also completed and opened for passenger traffic on 19/05/2007. Karaikkudi - Manamadurai section was inaugurated on 02/07/2008 for passenger traffic and handed over to Open line on 19/03/2010. Residual works completed.
7	Villupuram - Katpadi - Gauge Conversion (161 Kms) (PB No.17)	78000	2000 - 01	2011	65288	100%	Detailed estimate has been sanctioned vide Board's letter No. 2002/W1/GC/S/2 dated 21.6.04 for Rs.231.72 Crores. An estimate amounting to Rs.3.97 crores for Electrification of Katpadi - Vellore Contonement section (10kms) is sanctioned by Railway Board as material modification to the work of GC of Tirupathi - Pakkala - Katpadi section vide letter No.92/W-2/GC/SC/20Vd - II dated 19/01/2006. MG section traffic closed on 01/06/2007. Work completed between Katpadi & Vellore (11 kms) section with electrification and opened for passenger traffic on 10/11/2008 and handed over to Open line on 05/03/2009. Works completed in Vellore - Tiruvannamalai - Villupuram (150 kms) section and CRS has given authorisation vide letter dt.15/03/2011 for Passenger Traffic with speed of 50 km/hr. Accordingly, first train No.16780 from Madurai to Tirupathi passed the section on 31/03/2011. Existing speed for Villupuram-Vellore Cantonment Gauge Converted section has been increased to 80 kmph vide CRS letter dt.19/06/2013 and the section handed over to OL on 09/08/2013. Left over protection works in progress.
8	Manamadurai - Virudunagar - Gauge Conversion (66.55 Kms) (PB No.18)	23158	2006-07	2013	20544	98%	Estimate sanctioned for Rs.138.03 crores vide Railway Board No.2000/W-1/GC/S/1 dated 31/12/2007. Section commissioned for passenger traffic on 14/07/2013 (authorised speed - (80 kmph) and handed over to Open Line Department on 03/01/2014. Finalisation of all agreements are in progress.
9	Dindigul - Pollachi - Palaghat & Pollachi - Coimbatore - Gauge Conversion (224.88 Kms) (PB No.19)	106500	2006-07		96154	90%	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. Revised estimate is under finalisation & will be submitted to Board shortly. The MG train service from Pollachi to Palghat has been suspended from 15/12/2008 and Dindigul - Pollachi - Podanur has also been suspended from 26/05/09. Sections Commissioned: Podanur - Coimbatore - GC (6 km) - Passenger Traffic commenced on 23/03/2010. Dindigul-Palani GC (58 km) - Passenger traffic commissioned on 20/11/2012. Section handed over to Open Line on 05/04/2013.

S.No	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
10	Mayiladuturai - Thiruvavur- Karaikkudi and Tiruturai - Agastiyampalli (223.69 km) & restoration of Nidamangalam - Mannargudi line (13.25 km), Mannargudi - Pattukkottai (41.00 km) & Thanjavur- Pattukkottai (47.20 km) Total = 325.14 km (PB No.20)	207250	2007-08		56324	31%	Palani-Pollachi GC (63 km) - Passenger traffic commissioned on 09/01/2015. Section handed over to Open Line on 23/01/2015. Pollachi-Palakkad GC (58 km): Work completed and CRS has inspected the section on 5th & 6th of October 2015 and authorised the section for passenger traffic @ 80 kmph. Goods services commenced on 25/10/2015. Passenger services commissioned on 16/11/2015. Sections in progress: Pollachi - Kinattukkadavu (21 km) . Status of estimate: Work included in the budget 2007-08 at a cost of Rs.404.19 crores. Part detailed estimate for Mayiladuturai-Thiruvavur (38 KM) was sanctioned by Railway Board on 08/05/2008 for Rs. 136.77 crores. Railway Board have included the restoration of Nidamangalam - Mannargudi line (13.25 kms) as material modification in 2010-11 Pink Book vide Item No.12. Detailed estimate for Nidamangalam-Mannargudi restoration line sanctioned by Board at a cost of Rs.62.17 crores. Part detailed estimate for Thiruvavur - Tiruturai - Karaikkudi and Tiruturai - Agastiyampalli for Rs.506.72 crores sanctioned by Board vide letter dt.12/09/2011. Revised estimate under finalisation. Subsequently, one more new line from Mannargudi to Pattukkottai (41 kms) has been approved as Material modification vide Railway Board's letter No.2006/W-1/GC/SR/MKA/PM dated 10/09/2010 at a cost of Rs.215.59 Cr. Detailed estimate for Rs.369.21 cr. sent to Railway Board on 04/10/2012. Board has advised to submit modified estimate vide letter No.W.193/XXII/24/CN dt.04/02/2014. Accordingly, estimate has been modified to Rs.257.82 cr. (excl. part estimate for bridges for Rs.19.02 cr. already sanctioned) and sent to Board on 12/03/2014. Again, Board returned the estimate vide letter dt.04/06/2014. Accordingly, reply submitted to Board on 02/07/2014. Board queries dated 04/08/2014 discussed with Board's office on 20/08/2014. Again, Board queries dt.29/12/2014 replied on 13/01/2015. One part detailed estimate for major bridges for a value Rs.19.03 cr. of Mannargudi - Pattukkottai section has been sanctioned by Board. Railway Board have included a New line between Thanjavur & Pattukkottai (47.2 km) at a cost of Rs.290.05 cr. as material modification in PB 2012-13. Detailed estimate for Rs.467.22 cr. sent to Railway Board vide letter No.W.193/XXII/24/CN on 27/03/2015. Sections Opened: Nidamangalam-Mannargudi section has been authorised by CRS for running Passenger services and passenger traffic commissioned on 27/09/2011. section handed over to open line dept. on 01/07/2014. Mayiladuturai - Thiruvavur MG section was closed on 08/06/2009. All works completed and engine rolling done on 20/12/2011. CRS inspected the section on 22/03/2012 and authorised for passenger traffic @ 80 km/hr. on 26/03/2012. Goods services commissioned on 06/04/2012. Passenger traffic commenced from 15/07/2012. Sections in progress: MG traffic was stopped in Karaikkudi- Pattukkottai section on 15/03/2012 and Pattukkottai-Thiruvavur section on 19/10/2012. Work is being taken up from Karaikkudi end.

S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
11	Madurai - Bodinayakanur (90.41 kms) (PB No.21)	45000	2008-09		2503	6%	Thiruvavur - Tiruturaipundi - Pattukkottai: (76 km) - Thiruvavur - Pattukkottai MG traffic closed on 19/10/2012. Karaikkudi - Pattukkottai (73.26 km) Tiruturaipundi - Agastiyampalli (37 km) Mannargudi to Pattukkottai New line (41 kms): FLS tender has been awarded and work is in progress. Land requirement for complete length furnished to District Collectors in June 2012. 4 (1) not issued. Work is in progress in a major bridge across Pamaniyar river. Detailed estimate for Rs.257.82 cr (excl. part detailed estimate for bridge works for Rs.19.03 cr.) submitted to Board for sanction. New line between Thanjavur and Pattukkottai (47.2 km) has been approved in 2012. Sub soil investigation & FLS works are in progress. New line alignment has been finalised. Working sections has been approved. Working plan and LPS for land acquisition are being processed. Detailed estimate for Rs.467.22 cr. submitted to Board for sanction. Work included in Pink Book in the year 2008-09 at a cost of Rs.164.41 crores. Railway Board have sanctioned part estimate for Rs.15.00 crores vide Railway Board letter No.2005/W1/NL/SR/1 dated 24/02/2009. As per Board's direction, estimate has been recast for an amount of Rs.302.90 and sent to Board for sanction vide letter No.W.193/XXII/25 dt.14/02/2014. MG traffic closed with effect from 01/01/2011. Contract awarded for major bridge No.43, 54, 126, 135, 154 & 163 and works are in progress. For want of estimate sanction by Railway Board (other than major bridges), execution of other works could not be planned. Agreement terminated for Br. No.126 & 135 due to slow progress. Budget Grant for 2015-16 is Rs.10 lakhs only. Railway Board has sanctioned Rs.5.0 cr. by re-appropriation of funds. For Br. No.180. tender has been opened. For Br. No.179, tender is being called. Tender has been called for the balance works of Br. Nos.126 & 135.
12	Chennai Beach - Tambaram - Chengalpattu Suburban Gauge Conversion (60 kms.)	52000	1998 - 99	2004	46372	89%	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 opened for traffic on 01/11/2004. 1. Provision of 14 ROB/RUBs in lieu of existing level crossings is also part of the project so as to eliminate all the level crossings in the Chennai Beach - Tambaram section. The progress of individual ROB/RUB is as follows: i) Harrington RUB - LC No.4 completed and commissioned. ii) Rangarajapuram ROB @ LC No.7 split ROB , First leg completed and commissioned on 07/09/2011, and second leg completed & commissioned on 05/10/2012. iii) Rangarajapuram RUB - LC No.7 work completed and commissioned.

S.No	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
							iv) Jones Road RUB - LC No.11. Work completed and commissioned on 11/12/2009. v) Maduvangarai ROB - LC No.13 - Work completed and commissioned. vi) Jain College RUB - LC No.14 - Work completed and commissioned on 06/01/2010 vii) Trisulam ROB - LC No.22 - Approach GAD mutually finalised recently by Railways & Highways. viii) Pallavaram ROB (Goods shed Road) - LC No.24 - Work completed & commissioned on 09/10/2012. ix) Pallavaram RUB - LC No.24 - Work completed and commissioned. x) Dharga Road RUB - LC No.25 - Railway works completed and commissioned on 25/02/2011. xi) Vaishnava College ROB - LC No.26 - Work completed and commissioned. on 29/10/2010. xii) Radha Nagar RUB -LC No.27 - Box pushing work completed. Highways department yet to commence the approach work. xiii) Tambaram Sanatorium ROB -LC No.29 - Work completed and commissioned on 15/08/2010. xiv) Tambaram - Velachery Road ROB - LC No.30 - Work completed and commissioned on 17/08/2011.
3.0	DOUBLING Irugur - Coimbatore Doubling (17.70 kms) (PB No.23)	12000	1996 - 97	2010	9926	100%	Detailed estimate sanctioned by Railway Board for Rs.38.66 crores. The up line between Coimbatore and Coimbatore North (2.7 kms) has been completed and opened for traffic. (14/02/2004) . In the remaining stretch also, all the works completed including final NI working in station yard. CRS has conducted statutory inspection of Irugur - Coimbatore section (18 Km.) on 05/06/2010 and issued authorisation for opening of the project for public carriage. NI working at Pilamedu, Irugur yard has been completed and the section commissioned on 20/08/2010. Section is taken over by Open line on 01/03/2011.
1							
2	Attippattu - Korukkupet Third line (18 Kms) (RVNL Funded Project, being executed by S.RLY) (PB No.24)	16040	1999 -2000	2012	26731	83%	Status of the estimate: The detailed estimate for Attippattu - Korukkupet 3rd line was sanctioned by Railway Board for Rs.70.56 crores on 17/10/2002. Korukkupet - Ennore (12 kms) section is opened to traffic on 09/03/09 and handed over to open line on 09/09/2009. From Ennore to Attippattu Pudunagar (6 kms) work completed. CRS inspected the section on 06/11/2014. CRS authorised the section for 80 kmph for passenger traffic. Section opened for passenger traffic on 10/11/2014. Work on Attippattu Pudunagar - Attippattu is in progress.
3	Chennai Beach - Korukkupet III line (4.1 kms) (PB No.25)	14200	2003 - 04		4420	1%	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. As per Board's observations, revised detailed estimate for an amount of Rs.141.87 crores sent to Railway Board vide this office letter No.W.193/III/20/CN dated 08/01/2013 for sanction. Board vide letter No.2007/W-I/DL/SR/CK dt.22/01/2014 approved at a cost of Rs.141.87 cr. 4th line work is linked with 3rd line work for which detailed estimate is sanctioned only in January 2014 by Board. 1.666 ha. of land has to be acquired from Chennai Port Trust for laying third and fourth line between Chennai Beach and Korukkupet (4 kms). This is under process. Railway Board has approved the proposal of land exchange between Chennai Port Trust and Southern Railway vide letter No.2007/W-I/DL/SR/CA/1 dt.22/04/2009.

S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
4	Chennai Beach - Attippattu 4th Line (22.1 Kms) (PB No.29)	15850	2003-04		7634	9%	Land for 3rd & 4th line from Chennai Port Trust has to be obtained after exchanging land near Railway printing press, Royapuram, after completion of store & office building. As the detailed estimate is sanctioned recently, new building for printing press is under progress and existing building will be dismantled and land will be handed over to the port trust. After this, the Chennai Port Trust land will be taken over and then only third line project can be commenced. 2 ROBs - 3R & 4R require rebuilding modification. Work is in progress for 3R bridge modification. For Reach I & II, tender for earthwork, minor br. & track works was finalised and works are in progress.. For FOB & PF shelters at Washermanpet works are in progress. S&T building works at Korukkupet, Royapuram, Chennai Beach & Washermanpet are in progress. Land from Stanely hospital for 0.7 ha. is to be acquired. Land Plan Schedule given to State Govt. Administrative sanction for land not issued. Construction time - 2 years after land is received. MOU signed between Chennai Port Trust & Railways for executing exchange of land on 04/09/2015. 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 has been sent to Board vide letter No.W.193/III/19/CN dated 16/10/2007 for sanction. Meanwhile, GM has instructed to delete the works which were not planned originally in the final location survey report. Accordingly, the detailed estimate has been revised to Rs.96.14 cr. and GM/MAS has accorded sanction (since the value is less than Rs.100 cr.) on 23/02/2011. Section completed: Ennore - Attippattu Pudunagar 4th line (4.3 km) is completed. CRS inspected on 06/11/2014. CRS authorised the section for 80 kmph for passenger traffic. Section opened for passenger traffic on 10/11/2014. Chennai Beach-Korukkupet section (4.1 km): 4th line work is linked with 3rd line work for which detailed estimate is sanctioned only in January 2014 by Board. Land for 3rd & 4th line from Chennai Port Trust has to be obtained after exchanging land near Railway printing press, Royapuram, after completion of store & office building. 2 ROBs - 3R & 4R require rebuilding/modification. Work is in progress for 3R bridge modification. Tender for earthwork, minor br. & track works for Reach I and for Reach II finalised and work commenced. Tender for ballast opened & awarded; Works on FOB and PF shelters at Washermanpet in progress. Agency fixed for S&T building at Korukkupet and Royapuram and work is commenced. Land from Stanely hospital for 0.7 ha. is to be acquired. Land Plan Schedule given to State Govt. Administrative sanction for land not issued. Agency fixed for construction of store & office building for printing press at Royapuram. Construction time - 2 years after land is received.
5	Madurai - Dindigul (62.05 kms) (PB No.30)	26272	2003 - 04	2009	23651	100%	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. The section between Dindigul and Kodaikkanal Road (22 kms) completed and opened for traffic on 30/09/08. Section handed over to Open Line on 14/09/2009. The section between Kodaikkanal Road and Madurai (40.05 kms) completed and commissioned on 29/07/2009. Section handed over to Open Line on 12/02/2010. The final stage of Madurai yard and Dindigul yard modifications are planned for completion for which Rs.5.0cr. is required including other miscellaneous left over works. As Madurai Division wanted the changes in the approved plan of Madurai yard. the same is proposed to be done under Madurai-Maniyachchi-Tuticorin doubling project.

S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
6	Chengalpattu - Villupuram doubling (103 km) - with new Material Modification for Tambaram - Chengalpattu - 3rd line by GC of existing MG line along with electrification (30 km). (PB No.34)	95124	Supp. Demands for grants 2006-07		68687	88%	Detailed estimate for Rs. 369 .1 crores sanctioned by Railway Board vide letter No.2000/W-1/GC/SR/CGL-VM dated 08/04/2008. Revised estimate for Rs.676.30 cr. sanctioned by Railway Board vide letter No.2002/W-1/GC/SR/CGL-VM/I dt.12/11/2015. FLS completed. Detailed estimate for Rs.268.69 cr. sent to Railway Board vide letter No.W.193/XXII/21/CN dt.20/12/2013. As per Railway Board's observation dt.22/05/2014, the estimate has been modified for Rs.267.07 cr. and sent to Board vide letter No.W.193/XXII/21/CN dt.02/07/2014. Board's queries dt.14/11/2014 & 06/01/2015 replied on 21/11/2014 & 13/01/2015 respectively. As per Board's instruction, DE has been pruned down to Rs.255.68 cr. & sent to Board on 25/05/2015. Board vide letter No.2002/W-1/GC/SR/CGL-VM/I dt.12/11/2015 has sanctioned the estimate for Rs.255.68 cr. The total sanctioned cost for the above project including material modification is Rs.931.98 cr.
7	Villupuram- Dindigul (with Electrification. 273 Kms) (PB No.37) [RVNL project]	128083	2008-09		113730	77%	Work included in the Budget 2008-09. FLS completed and detailed estimate prepared at a cost of about Rs.1258.60 cr. and sent to RVNL for further processing and execution of the projects. 151 Hec. of land to be acquired and handed over by Tamilnadu State Government. Following sections have been commissioned and remaining sections are in progress.
8	Tiruvallur-Arakkonam 4th line(26.83 Kms) (PB No.38 Kms) [RVNL project]	14909	2008-09		7021	0%	Work included in the Budget 2008-09. No final location survey is required. Additional land for about 35 hectares will be required. Land requirement has been furnished to the State Government. This work is allotted to RVNL vide Railway Board's letter No.2007/WP/SR/08-09/01 dated 15/07/2008. The section between Tiruvalangadu & Arakkonam (10 km) has been commissioned on 03/09/2012. Tiruvalangadu - Tiruvallur (17 km) section has been inspected by CRS on 11/03/2016 & authorised the section for passenger traffic @ 90 kmph.. Land acquired at Puliymangalam village and Mosur village to an extent of 2.38 ha. on 15/10/2013. Permission for acquiring Government land at Puliymangalam village received from District Collector/Vellore recently.
9	Omalur - Mettur Dam - doubling with electrification (28.93 km) (PB No.40)	23373	2011-12		2818	25%	Detailed Estimate at a cost of Rs.187.26 crs. has been sanctioned by Board vide Ir. No. 2013/W 1/DL/SR/OM dt.10/10/2013. The land acquisition (LPS) for 14 villages(29.428 ha) has been submitted to District Collector, Salem on 06/06/2013. Rs.9.0 cr. has been deposited on 25/02/2015 to the District collector for advance deposit for cost of land. Tamilnadu Govt. issued G.O dt.04/03/2016 to acquire act under Tamilnadu Acquisition of land for Industrial Purpose Act 1997. Working plan & working section were finalised. The Major bridge GAD approved. The tenders for the Engineering works have been called for a value of Rs. 43.04 cr and work awarded. Agency fixed for yard arrangements at Omalur and mid section between Mecheri road and Mettur dam stations.
10	Thanjavur - Ponmalai - Doubling (46.96 km) with bye-pass line before Ponmalai (1.13 km) (PB No.42) (RVNL)	49000	Supp.		7791	3%	Work included in the Budget 2011-12 as supplementary demand. Status of estimates: i) Detailed estimate for Bypass line before Ponmalai for Rs.23.36 cr. sanctioned vide Board's vide letter No.2009/W1/D1/SR/TP dt.14/10/2013. ii) Detailed estimate for main project for Rs.455.96 cr. have been sanctioned by Board vide letter No. 2009/W1/D1/SR/TP/1 dt.16/04/2014.

S.No	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
							The project is handed over to RVNL vide Board letter No.2004/W-1/RVNL/31 dt.31/12/2013. Detailed estimate handed over. GOC bye pass line- (2.2 km) - Earth work completed. CRS inspection shall be planned after signalling portion of RVNL work is completed. Earth work for forming bank 30000 cum completed & formation ready. Minor bridges 3 Nos. completed. Transportation of P.way materials, sleepers, 3200 track sleepers and 10 sets of Points & crossings collection. P.way fittings arrived. 8000 cum of ballast collected and dumping in progress. Construction of S&T building, roof slab at Manjattidal and at Tiruchchirappalli town end completed. Finishing works in progress.
11	Madurai-Vanchi Maniyachchi-Tuticorin (158.81 km) (PB No.45)	107239	2015-16			0%	New work included in the Pink Book for 2015-16. Revised DPR and Detailed estimate for Rs.1072.39 cr. sent to Board vide letter No.W.193/III/23/CN dt.15/06/2015 for sanction. As per Board's letter No.2015/W-I/Genl./Presentation/Pt. dt.11/12/2015, this project has been transferred to RVNL for execution.
12	Vanchi Maniyachchi-Nagercoil (102.19 km) (PB No.47)	91060	2015-16			0%	New work included in the Pink Book for 2015-16. Revised DPR & Detailed estimate for Rs.910.60 cr. sent to Board vide letter No.W.193/III/24/CN dt.17/08/2015 for sanction. As per Board's letter No.2015/W-I/Genl./Presentation/Pt. dt.11/12/2015, this project has been transferred to RVNL for execution.
4.0	MTP WORKS						
1	MRTS - PHASE - I : CHENNAI BEACH TO TIRUMAILAI (PB No.MTP-1)	30619	1983-84	1997	28475	100%	The Project has been completed and commissioned in Oct. 1997. Mundagakanni Amman Koil Station, at a total cost of Rs.8.98 Crores has been commissioned on 14/05/2014. Balance miscellaneous works are nearing completion.
2	MRTS - PHASE - II TIRUMAILAI TO VELACHERI (11 kms) (PB No.MTP-2)	95000	1996-97	2004	88710	98%	Status of Estimate : Sanctioned at Rs.733.39 crores including modification for provision of ballastless track at a cost of Rs.14.41 crores between Thirumayilai and Taramani and Construction of elevated structure between Taramani and Perungudi (Km 16.790 to 17.441) at a cost of Rs.12.63 crores and between Perungudi & Velachery (km. 18.00 - 18.85) at a cost of Rs. 15.31 crores. Revised estimate at a cost of Rs.875.58 crores has been sanctioned by Railway Board vide letter No.96/Project/MAS/9/1/Vol.II dt.21/07/2010. Once again estimate has been revised for Rs.909.41 cr. & sent to Board vide letter No.MTP/W/Ph-II/Vol.VI dt.07/05/2013. Revised estimate sanctioned for 906.62 cr. vide Railway Board letter No.96/PROJ/MAS/9/1/Vol.II(Est) dt.26/03/2014. Section opened for Passenger traffic on 19/11/2007. In respect of station buildings, finishing works are in progress in Mandaveli, Kasturba Nagar, Indira Nagar, Tiruvanmiyur, Taramani & Velachery stations. Parallel road from Taramani to Velachery is in progress. One subway is in progress. Target for these works is 30/06/2016.
3	MRTS - PHASE - II Extension from Velachery to St. Thomas Mount (5 kms) (PB No.MTP-3)	49574	2006-07			46%	New work included in the Budget 2006-07. Initial survey completed. Status of the Estimate: Sanctioned for Rs.495.74 crores vide Railway Board letter No. 2001/Prog/MAS/9/2/ Vol.I dated 15/11/2007. Contracts have been awarded for substructure and superstructure works for section from Velachery to Aadambakkam for a distance of 4.5 km in three reaches and works are in progress. For balance 0.5 km, land acquisition is yet to be done by State Government. Contracts for structural/ architectural drawing for station building awarded and the same is in progress. Tender for construction of two station buildings (Puzhuthivakkam & Aadambakkam) recalled after contractors failed. LOA has been issued

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S.No.	Name of work	Anticipated Cost	Started in the year	Completed in the year	Expenditure up to 31/03/2016	Physical Progress	Remarks
							for Puzhuthivakkam Station. Platform structure up to roof level is in progress. LOA has been issued for Adambakkam Station platform structure and for Adambakkam station building. LOA issued for Puzhuthivakkam 2 blocks and for balance 2 blocks, land acquisition completed. For remaining two blocks in Puzhuthivakkam, works are in progress. The work is in progress for the 5 km length from Velachery end. Land acquisition for the balance alignment (stand alone section) to connect to St. Thomas Mount station is under process. Cases filed by the residents are quashed and land acquisition under process. Fresh cases seeking compensation under New LA act have come up and were disposed of by Hon'ble High Court to pay compensation as per new LA act. Tamilnadu Government has been urged to expedite the issue and hand over the land early.

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

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

1. MAS	-			
2. SA			Remodelling of CBE Yard	676.99
3. PGT			PLL - Provision of cross over at PGT end and conversion of Road No.4 to common loop.	15.74
4. TVC	-			
5. TPJ	-			
6. MDU	-			
7. CE/CN/ERS	-			
8. CE/CN/MS	-			
9. MTP	-			

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

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

(II) Works in progress**(a) Works costing more than ₹ 5 lakhs each—**

1. MAS	TNPM - Path way LR lines 5 to 10	85.571
	TNPM - Path way LR lines H frame	103.948
	GSN - Repairs to catwalk and pit line.	174.122
	TNPM - Path Way MRL lines 1 to 6	71.190
2. SA	Remodelling of Erode yard.	676.99
3. PGT	Nilambur Road - Provision of rake unloading facilities for 20 BCN wagons.	113.50
4. TVC	NJT Provision of two line crossing station in TVC-NCJ section.	617.95
	TEN-SGLm - Two line crossing station at Melapalayam.	935.37

5. TPJ -

6. MDU -

7. CE/CN/ERS -

8. CE/CN/MS -

9. MTP -

b) Works costing less than ₹ 5 lakhs each—

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

7. Line Capacity Work

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

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

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

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

<i>s in progress</i>			
(a) Works costing more than Rs. 5 lakhs			
1. MAS	..	Nil	..
2. SA	..	Erode-Provision of second	23962.00
		loop C39+C247+C256	
3. PGT	..	Nil	..
4. TVC	..	Nil	..
5. TPJ	..	Nil	..
6. MDU	..	Nil	..
7. CE/CN/ERS	..	Nil	..
8. CE/CN/MS	..	Nil	..
9. MTP	..	Nil	..
(b) Works 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. CE/CN/ERS	..	Nil	..
8. CE/CN/MS	..	Nil	..
9. MTP	..	Nil	..

II. Extension of Loops**(A) Works completed****(a) Works costing more than ₹ 5 lakhs each—**

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

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

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

(B). Works in Progress**(a) Works costing more than ₹ 5 lakhs each—**

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

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

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

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

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

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

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

(B). Works in Progress**(a) Works costing more than ₹ 5 lakhs each—**

1. MAS	..	Nil	..
2. SA	..	Nil	..
3. PGT	..	Nil	..
4. TVC-NJT-Provision of two line crossing station in TVC -NCJ section		617.95	
TEN-SGLM-Two line crossing station at Melappalayam		935.37	
5. TPJ	..	Nil	..
6. MDU	..	Nil	..
7. CE/CN/ERS	..	Nil	..
8. CE/CN/MS	..	Nil	..
9. MTP	..	Nil	..

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

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

Sl. No.	Division	Station	Name of work	Estimate cost Rs. in la
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IV. Conversion of 'D' station in to crossing station**(A) Works Completed****(a) Works costing more than ₹ 5 lakhs each—**

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

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

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

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

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

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

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

V. Additional Traffic Facilities**(A) Works Completed****(a) Works costing more than ₹ 5 lakhs each—**

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

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

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

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

1.	MAS	..	Nil	..
2.	SA	Karuppur-Increasing clear standing length of roads 4.5 & 6 (down lines)	40594.00	..
		Tiruppur-Direct reception & despatch facilities for goods line.	71313.00	..
		METTUPALAIYAM-Increasing CSL of roads 1 & 2 to accommodate 24 coach trains.	9500.00	..

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

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

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

VI. Provision of Goods shed, Pit line, etc.,**(A) Works Completed****(a) Works costing more than ₹ 5 lakhs each—**

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

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

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

(B) Works in progress

(b) Works costing less than Rs. 5 lakhs each—

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

1. MAS	Nil	..	1. MAS	..	Nil	..
2. SA	Nil	..	2. SA	..	Nil	..
3. PGT	Nil	..	3. PGT	..	Nil	..
4. TVC	CKI-Goods shed improvement and paving of unloading area	29.65	4. TVC	..	Nil	..
	OLR Goods shed improvement and paving of unloading area	29.65	5. TPJ	..	Nil	..
5. TPJ	..	Nil	6. MDU	..	Nil	..
6. MDU	..	Nil	7. CE/CN/ERS	..	Nil	..
7. CE/CN/ERS	KCVL-Pit line	810 (part of 3468.00)	8. CE/CN/MS	..	Nil	..
	ERM pit line	1378.25	9. MTP	..	Nil	..
8. CE/CN/MS	..	Nil				
9. MTP	..	Nil				

8. Doubling of Lines

(Rs. in Crores)

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

(a) New doubling sanction during the year 2015-16

1	MAS	Nil					
2	SA	Nil					
3	PGT	Nil					
4	TVC	Nil					
5	TPJ	Nil					
6	MDU	Nil					
7	CE/CN/ERS	TVC-CAPE	85	0%			Estimate yet to be sanctioned by Railway board
		TUVR-AMPA	50	0%			Estimate yet to be sanctioned by Railway board
8		Madurai-Vanchi Maniyachchi Tuticorin (158.81kms) (PB No.45)		0%			New work included in the Pink Book for 2015-16. Revised DPR and Detailed estimate for Rs.1072.39 Cr. Sent to Board vide letter No.W.193/III/23/CN dt.15.06.2015 for sanction. As per Board's letter No.2015/W-I/Genl/Presentation/PL dt.11.12.2015, this project has been transferred to RVNL for execution.
		Vanchi Maniyachchi Nagercoil (102.191kms.) (PB No.47)		0%			New work included in the Pink Book for 2015-16. Revised DPR and Detailed estimate for Rs.910.60 Cr. Sent to Board vide letter No.W.193/III/24/CN dt.17.08.2015 for sanction. As per Board's letter No.2015/W-I/Genl/Presentation/PL dt.11.12.2015, this project has been transferred to RVNL for execution.
9	MTP	Nil					
2. Doubling in Progress							
1	MAS	Nil					
2	SA	Nil					
3	PGT	Nil					
4	TVC	Nil					
5	TPJ	Nil					

8. Doubling of Lines

(Rs. in Crores)

Sl. No.	Division	Section	Length in km.	Physical progress	Date of which the section offered		Remarks
					Goods Traffic	Passenger Traffic	
(a) New doubling sanction during the year 2015-16							
6	MDU	Nil					
7	CE/CN/ERS	MNTT-KRPP	24	70%			
		CNGR-CGV	26.5	28%			
		AMPA-HAD	18.13	40%			
		MAJN-PNMB	19	35%			
8	CE/CN/MS	Attipattu-Korukkupet Third line (18 Kms) (RVNL, Funded Project, being executed by S.R.L.Y) (PB No.24)		93%	KOK-ENR 09-03-09 ENR-AIP 26-03-12	KOK-ENR 09-03-09 ENR AIPP 10-11-14	Status of the estimate: H29 The detailed estimate for Attipattu-Korukkupet 3rd line was sanctioned by Railway Board for Rs.70.56 crores on 17.10.2002. Korukkupet - Egmore (12 Kms) section is opened to traffic on 09.03.09 and handed over to open line on 09.09.2009. From Ennore to attipattu Pudunagar (6 Kms) work completed. CRS inspected the section on 06.11.2014. CRS authorised the section for 80 kmph for passenger traffic. Section opened for passenger traffic on 10.11.2014. Work on Attipattu Pudunagar-Attipattu is in progress.
		Chennai Beach - Korukkupet III line (4.1 Kms) OPB No.25).		18%			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 crore has been sent to Board on 03.08.2007 for sanction. As per Board's observations, revised detailed estimate for an amount of Rs.141.87 crores sent to Railway Board vide this office letter No.W.193/III/20/CN dated 08.01.2013 for sanction Board vide letter No.2007/W-I/DL/SR/CK dated 22.01.2014 approved at a cost of Rs.141.87 cr. 4th line work is linked with 3rd line work for which detailed estimate is sanctioned only in January 2014 by Board. 1.666a of land has to be acquired from Chennai Port Trust for laying third and fourth line between Chennai Beach and Kourukkupet (4 kms).

8. Doubling of Lines

(Rs. in Crores)

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

(a) New doubling sanction during the year 2015-16

		Chennai Beach - Attippattu 4th line (22.1 Kms) OPB No.29).		20%			This is under process. Railway Board has approved the proposal of land exchange between Chennai Port Trust and Southern Railway vide letter No. 2007/W-1/DL/SR/CA/1 dt.22.04.2009. Land for 3rd and 4th line from Chennai Port Trust has to be obtained after exchanging land near Railway printing press. Royapuram, after completion of store & office building. As the detailed estimate is sanctioned recently, new building for printing press is under progress and existing building will be dismantled and land will be handed over to the Port Trust. After this, the Chennai Port Trust land will be taken over and then only third line project can be commenced. 2 ROB's - 3R & 4R require rebuilding modification. Work is in progress for 3R bridge modification. For Reach I & II, tender for earth work, minor Br. & track works as finalised and works are in progress. For FOB & PF shelters at Washermanpet works are in progress. S&T building works at Korukkupet, Royapuram, Chennai Beach & Washermanpet are in progress. Land from Stanley hospital for 0.7 ha. is to be acquired. Land Plan Schedule given to State Govt. Administration sanction for land not issued. Construction time - 2 years after land is received. MOU signed between Chennai Port Trust & Railways for executing exchange of land on 04.09.2015. 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.102.42 crore sent to Board vide letter No.W.193/III/19/CN dated 16.10.2007 for sanction. Meanwhile, GM has instructed to delete the works which were not planned originally in the final location survey report. Accordingly, the detailed estimate has been revised to Rs. 96.14 cr. and GM/MAS has accorded sanction (since the value is less than Rs. 100 cr.) on 23-02-2011.
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8. Doubling of Lines

(Rs. in Crores)

Sl. No.	Division	Section	Length in km.	Physical progress	Date of which the section offered		Remarks
					Goods Traffic	Passenger Traffic	
(a) New doubling sanction during the year 2015-16							
							Section completed: Ennore-Attipattu Pudunagar 4th line (4.3 km) is completed. CRS inspected on 06.11.2014. CRS authorised the section for 80 kmph for passenger traffic. Section opened for passenger traffic on 10.11.2014. Chennai Beach - Korukkupet section (4.1 km): 4th line work is linked with 3rd line work for which detailed estimate is sanctioned only in January 2014 by Board. Land for 3rd & 4th line from Chennai Port Trust has to be obtained after exchanging land near Railway printing press, Royapuram, after completion of store and office building. 2 ROBs-3R & 4R require rebuilding/ modification. Work is in progress for 3R bridge modification. Tender for earthwork, minor Br. & Track works for Reach I and for Reach II finalised and work commenced. Tender for ballast opened and awarded; Works on FOB and PF shelters at Washermenpet in progress. Agency fixed for S&T building at Korukkupet and Royapuram and work is commenced. Land from Stanely hospital for 0.7 ha. is to be acquired. Land Plan Schedule given to State. Govt. Administrative sanction for land not issued. Agency fixed for construction of store & office building for printing press at Royapuram. Construction time - 2 years after land is received.
		Chengalpattu-Villupuram doubling (103 Km) - with new Material Modification for Tambaram - Chengalpattu - 3rd line by GC of existing MG line along with electrification (30 km) (PB No.34).		88%	MML-MLMR : 28.03.2012 PER-MYP : 29.12.2012		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. Revised estimate for Rs.676.30 Cr. Sanctioned by Railway Board vide letter No.2002/W-1/GC/SR/CGL-VM/1 dt.12.11.2015. FLS completed. Detailed estimate for Rs.268.69 cr. sent to Railway Board vide letter No.W.193/XXII/21/CN dt.20.12.2013. As per Railway Board's observation dt.22.05.2014, the estimate has been modified for Rs.267.07 Cr. and sent to Board vide letter No.W.193/XII/21/CN dt.02.07.2014. Board's queries dt.14.11.2014 & 06.01.2015 replied on 21.11.2014 & 13.01.2015 respectively. As per Board's instruction, DE has been pruned down to Rs.255.68 Cr. and sent to Board on 25.05.2015. Board vide letter No.2002/W-1/GC/SR/CGL-VM/1 dt.12.11.2015 has sanctioned the estimate for Rs.255.68 Cr. The total sanction cost for the above project including material modification is Rs.931.98 Cr.H39.
					MYP-VM : 17.10.2011		
					MLMR-TZD : 06.01.2014		
					TMV-PEI : 14.11.2014		
					TZD-OLA: 03.03.2015 KGZ-MMK : 13.03.2015		
					CGL-KGZ : 27.09.2015		

(Rs. in Crores)

Sl. No.	Division	Section	Length in km.	Physical progress	Date of which the section offered		Remarks
					Goods Traffic	Passenger Traffic	
(a) New doubling sanction during the year 2015-16							
		Villupuram - Dindigul (with Electrification 273 Kms) (PB No.37) (RVNL-project)		77%	VLDE-KKPM: 10.07.13; KKPM-ALU: 06.08.14; VRI- TVNL: 05.01.16		Work included in the Budget 2008-09. FLS completed and detailed estimate prepared at a cost of about Rs.1258.60 Cr. and sent to RVNL, for further processing and execution of the projects. 151 Hec. of land to be acquired and handed over by Tamil Nadu State Government. Following sections have been commissioned and remaining sections are in progress.
		Tiruvallur-Arakkonam 4th line (26.83 Kms) (PB No.38) (RVNL project)		0%	AJJ-TO: Sep 2012		Work included in the Budget 2008-09. No final location survey is required. Additional land for about 35 hectares will be required. Land requirement has been furnished to the State Government. This work is allotted to RVNL vide Railway Board's letter No.2007/WP/SR/08-09/01 dated 15.07.2008. The section between Tiruvalangadu & Arakkonam (10 km) has been commissioned on 03.09.2012. Tiruvalangadu-Tiruvallur (17 Km) section has been inspected by CRS on 11.03.2016 & authorised the section for passenger traffic @ 90 kmph. Land acquired at Puliymangalam village and Mosur village to an extent of 2.38 ha. on 15.10.2013. Permission for acquiring Government land at Puliymangalam village received from District Collector/ Vellore recently.
		Omalur-Mettur Dam - doubling with electrification (28.93 km)(PB No.40)		25%			Detailed Estimate at a cost of Rs.187.26 crs. has been sanctioned by Board vide Ir.No.2013/W1/DL/SR/OM dt.10.10.2013. The land acquisition (LPS) for 14 villages (29.428 ha) has been submitted to District Collector, Salem on 06.06.2013. Rs.9.0 cr. has been deposited on 25.02.2015 to the District Collector for advance deposit for cost of land. Tamil Nadu Govt. issued G.O. dt.04.03.2016 to acquire act under Tamil Nadu Acquisition of land for Industrial Purpose Act 1997. Working plan & working section were finalised. The Major Bridge GAD approved. The tenders for the Engineering works have been called for a value of Rs.43.04 cr. and work awarded. Agency fixed for yard arrangements at Omalur and mid section between Mecheri road and Mettur Dam stations.

(Rs. in Crores)

Sl. No.	Division	Section	Length in km.	Physical progress	Date of which the section offered		Remarks
					Goods Traffic	Passenger Traffic	
(a) New doubling sanction during the year 2015-16							
9	MTP	Thanjavur-Ponmalai - Doubling (46.96 km) with bye-pass line before Ponmalai (1.13 km) (PB No.42) (RVNL).		3%			Work included in the Budget 2011-12 as supplementary demand. Status of estimates: i) Detailed estimate for Bypass line between Ponmalai for Rs.23.36 cr. sanctioned vide Board's letter No.2009/W1/D1/SR/TP dt.14.10.2013. ii) Detailed estimate for main project for Rs.455.96 Cr. have been sanctioned by Board vide letter No.2009/W1/D1/SR/TP/1 dt.16.04.2014. The project is handed over to RVNL vide Board's letter No.2004/W-1/RVNL/31 dt.31.12.2013. Detailed estimate handed over. GOC bye-pass line (2.2 km) - Earth work completed. CRS inspection shall be planned after signalling portion of RVNL work is completed. Earth work for forming bank 30000 cum completed and formation ready. Minor bridges 3 nos. completed. Transportation of P.Way materials, sleepers, 3200 track sleepers and 10 sets of points and crossings collection. P.Way fittings arrived. 8000 cum of ballast collected and dumping in progress. Construction of S&T building, roof slab at Manjattidal and at Tiruchchirappalli Town end completed. Finishing work in progress.
Doubling completed.							
1	MAS	-					
2	SA	-					
3	PGT	-					
4	TVC	-					
5	TPJ	-					
6	MDU	-					
7	CE/CN/ERS	Gauge conversion Punalur Edamon GC work	8	100%			

8. Doubling of Lines

(Rs. in Crores)

Sl. No.	Division	Section	Length in km.	Physical progress	Date of which the section offered		Remarks
					Goods Traffic	Passenger Traffic	
(a) New doubling sanction during the year 2015-16							
8	CE/CN/MS	Irugur - Coimbatore Doubling (17.70 kms) (PB No.23)		100%	-	20.08.2010	Detailed estimate sanctioned by Railway Board for Rs.38.66 crores. The up line between Coimbatore and Coimbatore North (2.7 Kms.) has been completed and opened for traffic (14.02.2004). In the remaining stretch also, all the works completed including final NI working in station yard. CRS has conducted statutory inspection of Irugur-Coimbatore section (18 Km) on 05.06.2010 and issued authorisation for opening of the project for public carriage. NI working at Pilamedu. Irugur yard has been completed and the section commissioned on 20.08.2010. Section is taken over by Open line on 01.03.2011.
		Madurai - Dindigul (62.05 kms) (PB No.30)		100%	-	DG-KOK 30.09.08 KOK-MDU: 29.07.09.	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 The section between Dindigul and Kodaikkanal Road (22 kms) completed and opened for traffic on 30.09.08. Section handed over to Open line on 14.09.2009. The section between Kodaikkanal Road and Madurai (40.05 Kms) completed and commissioned on 29.07.2009. Section handed over to Open line on 12.02.2010. The final stage of Madurai yard and Dindigul yard modications are planned for completion for which Rs.5.0 Cr. is required including other miscellaneous left over works. As Madurai Division wanted the changes in the approved plan of Madurai yard, the same is proposed to be done under Madurai-Maniyachchi-Tuticorin doubling project.
9	MTP	-					

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9 - Siding.

Sl. No.	Divn.	Name of Work	Estimated cost Rs.in lakhs.
I	Private siding.		
A	Works Completed.		
(a)	Works costing more than Rs. 5 lakhs each.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
(b)	Works costing less than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
B.	Works in Progress		
(a)	Works costing more than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
(b)	Works costing less than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	

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9 - Siding.

Sl. No.	Divn.	Name of Work	Estimated cost Rs.in lakhs.
II.	Assisted siding		
A	Works Completed.		
(a)	Works costing more than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
(b)	Works costing less than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
B.	Works In Progress		
(a)	Works costing more than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
(b)	Works costing less than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	

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9 - Siding.

Sl. No.	Divn.	Name of Work	Estimated cost Rs.in lakhs.
III	Works under development.		
A	Works Completed.		
(a)	Works costing more than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
(b)	Works costing less than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
B.	Works in Progress.		
(a)	Works costing more than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
(b)	Works costing less than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
IV.	Railway Sidings		
A	Works Completed.		
(a)	Works costing more than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	

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9 - Siding.

Sl. No.	Divn.	Name of Work	Estimated cost Rs.in lakhs.
(b)	Works costing less than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
B.	Works in Progress		
(a)	Works costing more than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
(b)	Works costing less than Rs. 5 lakhs.		
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	-	
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	

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10. Strengthening of Track

Sl. No.	Division	Works Completed				Works In Progress			
		more than ₹ 5 lakhs		less than ₹ 5 lakhs		more than ₹ 5 lakhs		less than ₹ 5 lakhs	
		No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).
	All Divisions	24	2995.24	12	17.15	57	2036.02	13	42.94

GM'S ANNUAL NARRATIVE REPORT FOR THE YEAR 2015-16**10. Strengthening of Track**

Sl. No.	Division	Works Completed				Works in Progress			
		more than ₹ 5 lakhs		less than ₹ 5 lakhs		more than ₹ 5 lakhs		less than ₹ 5 lakhs	
		No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).	No. of Works	Aggregated Cost (₹ in lakhs).
1	MAS	—	—	—	—	1	100.00	—	—
2	SA	4	487.82	—	—	—	—	—	—
3	PGT	12	288.51	—	—	24	184.31	—	—
4	TVC	—	—	—	—	3	358.72	—	—
5	TPJ	4	44.91	12	17.15	27	442.99	13	42.94
6	MDU	4	1474.00	—	—	2	950.00	—	—
7	CE/CN/ERS	—	—	—	—	—	—	—	—
8	CE/CN/MS	—	—	—	—	—	—	—	—
9	MTP	—	—	—	—	—	—	—	—
	Total	24	2995.24	12	17.15	57	2036.02	13	42.94

11. Fencing

Sl. No.	Division/Station	Name of work	Cost of ₹ (in Thousands)
(A) Works Completed :-			
(a) Works Costing more than ₹5 lakhs each :-			
1.	MAS	- Construction of compound wall	74.022
2.	SA	-	
3.	PGT	-	
4.	TVC	-	
5.	TPJ	-	
6.	MDU	-	
7.	CE/CN/ERS	-	
8.	CE/CN/MS	-	
9.	MTP	-	
(b) Works Costing less than ₹ 5 lakhs each :-			
1.	MAS	- MPK-Compound wall	1.000
2.	SA	-	
3.	PGT	-	
4.	TVC	-	
5.	TPJ	-	
6.	MDU	- DG-PLNI - Repairs to fallen compound wall near Quarters No.PLNI/49-52	1.96
7.	CE/CN/MS	-	
8.	CE/CN/ERS	-	
9.	MTP	-	

(B) Works in Progress :-

(a) Works Costing more than ₹5 lakhs each :—

1. MAS	PER - Compound Wall	9.219
	Sterling Garden Compound Wall	107.066
	TRT - Compound wall	37.883
	Nagari - Compound wall	34.257
	WST Sec. Compound wall	184.256
	NWL- Compound wall	71.786
	JTJ-Compound wall at Edayampatti and East colony.	45.970
	CGL-Repairs to compound wall & Backyard Roofing.	195.415
	MSB-MS-Compound Wall	131.230
	PER - Compound Wall	42.557
2. SA	Boundary wall/Fencing to prevent encroachment on railway land	77.65
3. PGT	-	
4. TVC	-	
5. TPJ	-	
6. MDU	MDU	198.00
	RMM Compound wall to sick line with pit line area along with Railway boundary phases.	41.83
	SSE/W/DG Sec. Repairs to platform surface and fencing at PUG, KFC, AYR, VDM & TMP sections.	55.21
7. CE/CN/MS	-	
8. CE/CN/ERS	-	
9. MTP	-	

(b) Works Costing less than ₹ 5 lakhs each :—

1. MAS	-	
2. SA	-	
3. PGT	-	
4. TVC	-	
5. TPJ	-	
6. MDU	-	
7. CE/CN/ERS	-	
8. CE/CN/MS	-	
9. MTP	-	
	NCJ-Provision of rail fencing for a length of 450m.	4.63

12. Running Shed Facilities

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

(a) Works Costing more than ₹ 5 lakhs each :—

1. MAS	..	Nil		
2. SA				
3. PGT	MAQ - Standard facilities for maintenance depot for AC Coach.			43.00
4. TVC	-			
5. TPJ	GOC -Replacement of damaged/broken North light glasses in heavy repair schedule bays in DSL Loco shed/GOC.			5.00
6. MDU	RMM - Construction of Ticket Examiner's rest room with 12 beds in cubical portion, study room, kitcyhen etc.RMM - Construcion of running room to accommodate 15 beds.			147.03
7. CE/CN/ERS	-			
8. CE/CN/MS	-			
9. MTP	-			

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b) Works costing less than Rupees 5 lakhs each.

1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	GOC - DSL Loco shed - Replacement of dilapidated roof sheet LR bay 7&8.	4.98
		GOC - Improvements to heavy duty flooring in heavy repair bay and light repair bay in DSL shed/GOC.	4.74
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS-		
9	MTP	-	

II. Works in Progress.**a) Works costing more than Rupees 5 lakhs each.**

1	MAS	AVD EMU Shed - Expansion of inspection shed & Stabling lines for 12 cars rake capacity.	800.00
		Repairs to approach Road to ANNRR Railway station and Avadi Car Shed.	37.25
		Proposed effluent treatment facilities to control water pollution.	25.00
		Reconstruction of OHE tower wagon shed at PON Tower Wagon shed.	48.00
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	TPJ - Proposed extension of DEMU pit line from existing 9 coaches to 13 coaches at BG coaching complex.	99.83
		GOC - Diesel shed - Proposed store shed with covered high roof and service building to an area of 15 m x 30 m.	115.68
		Replacement of charged/broken AC GC/gutters with GCI sheet gutters in heavy schedule bays and light schedule bays in DSL Loco Shed/GOC.	5.00
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS-		
9	MTP	-	

b) Works costing less than Rupees 5 lakhs each.

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

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FORMAT FOR CHAPTER IV PARA13
PROVISIONAL IMPROVEMENTS TO OFFICES, STORES AND WORKSHOP ETC.

Sl.No.	Division	Name of work	Estimated cost in ₹. Lakhs.
I.		Works completed.	
a.		Works costing more than Rs.5 lakhs each.	
1.	MAS-	PER - GSD Construction and new building to replace existing RSG Main ward (26x20)m and RCC Roofing strong room facility, store non-ferrous scraps.	52.00
		PER - ((GSD) - Main Office building for Chief Material Manager.	67.00
		NGO - Repair works (Rev. 13/47.59.287)	59.217
2.	SA	-	
3.	PGT	-	
4.	TVC	-	
5	TPJ	GOC - Replacement of damaged/broken North light glasses in heavy repair schedule bays in DSL Loco Shed.	5.00
		GOC - Replacement of damaged/broken North light glasses in various shops at CWS.	5.00

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FORMAT FOR CHAPTER IV PARA 13
PROVISIONAL IMPROVEMENTS TO OFFICES, STORES AND WORKSHOP ETC.

Sl.No.	Division	Name of work	Estimated cost in ₹. Lakhs.
6	MDU	..	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
b. Works costing less than Rs.5 lakhs each			
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	GOC - Provision of metal road adjoining of CWM's office.	4.50
		GOC - Providing of concrete flooring at 3rd BG pit line at CWS.	4.70
		GOC - Improvements to heavy duty flooring in Heavy repair bay and light repair bay in DSL shed.	4.74
		GOC - Provision of transparent sheets in CLP shop.	4.90
		GOC - Provision of metal road between FSS & Machine shop.	4.57
		GOC - Machine shop - Construction of RCC building for Air brake reclamation.	4.75
		GOC - DSL Loco shed - Replacement of dilapidated roof sheet LR bay 7 & 8.	4.98
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	
II. Works in Progress			
a. Works costing more than Rs.5 lakhs each.			
1	MAS	Stores - TNP/Diesel Stores Depot - Construction of office building.	53.00
		Stores - EWS & FBW AJJ - Stacking PF (1083 of LAW 10-11 & CN Funds EST)	27.760
		Workshops - Wheel Lathe - ELS AJJ (1378 of LAW 14-15)	16.926
		Office - NGO Building - Improvements of ceiling surface structural members.	99.00
		Interior surfaces, North-Wst corner Staircases, roof & strengthening of North East corner staircase wall and improvements to flooring, sunshade etc.	
		MS-REP SSE/W/Br.Office	25.262
		TBM-SSE/P.Way Office	29.013
2	SA	Coonor - Gantry arrangements for 5 ton hoist to handle x-class loco wheel (id:1071/08-09), CE/OL.	13.69
		Coonor - Provision of singel bay with roof and pit line for MG diesel loco wheel changing (id:1070/08-09).	42.64
		Provision of Electronic lab for maintenance of electronic based equipments available at ELS/ED.	38.20
		SA Dn. - Examination pit in IOH shed line No.3 at Coimbatore Jn.	14.68
3	PGT	Proposed widening of existings rail level goods unloading platform and repairs to Goods approach road & construction of SE/PW/E/PGT office.	419
		SRR - Construction of SSE/PW/O/SRR	26.08
4	TVC	-	
5	TPJ	GOC - Extension of traction motor & EBR shop with covered roof and heavy duty flooring for two stanchion length (id.1005/10-	130.00
		GOC - Improvements of POH facilities extension of AC shop with pit line, alternator testing facilities etc. (id.1006/10-11)CE/OL.	130.00
		GOC - Extension of Electrical Millwright shop (12.20 mx15.50m) with gantry girder for EOT crane on a/c of increase in wagon.	74.73
		GOC - Improvements to toilets at various shop.	76.39
		Mass gas cylinder shed for developing safe storage facility.	103.08
		GOC - Replacement of damaged/broken AC GCI gutters with GCI sheet gutters in heavy schedule bays and light schedule.	5.00
6	MDU	Dismantling & Re-construction of service building & vehicle parking area at divisional office.	93.00
7	CE/CN/ERS		

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FORMAT FOR CHAPTER IV PARA 13

PROVISIONAL IMPROVEMENTS TO OFFICES, STORES AND WORKSHOP ETC.

Sl.No.	Division	Name of work	Estimated cost in ₹. Lakhs.
8	CE/CN/MS	Erode Diesel shed	2052.00
9	MTP	-	
b. Works costing less than Rs.5 lakhs each			
1	MAS	-	
2	SA	-	
3	PGT	-	
4	TVC	-	
5	TPJ	GOC - Dust free room for wagon bearing mounting at WBS Shop.	4.21
6	MDU	-	
7	CE/CN/ERS	-	
8	CE/CN/MS	-	
9	MTP	-	

14. Flood Investigation and related subjects 2015-16**A. A Review of Vulnerable Bridges and Reaches :**

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

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

b. During the year 2015-2016, Flood Organization has carried out the following investigation/studies.

- Detailed investigation to assess the waterway requirement for 7 Nos. bridges for Rebuilding/Doubling/RVNL etc.,
- Detailed studies to clear the 31 Nos. GADs for major bridges and 4 bridge GADs of RVNL proposals were revised submitted by CN/RVNL.
- Submission of 10 nos. for flood clearance for issuing NOC for structures sought by State/Private parties.
- Detailed studies to clear 2 No. of proposals against ballast washed out in CUPJ-VRI section siding on flood point of view submitted by Division/CN.
- Detailed studies to clear 1 No. of proposal against breaches in CUPJ-VRI section on flood point of view submitted by Division/CN.
- Detailed studies to clear 1 No. of proposal against the closure of bridge in VPT-TSI section on flood point of view submitted by Division/CN.
- Detailed studies to clear 1 No. of proposal against the flooding in TEN-TCN section on flood point of view submitted by Division/CN.
- Detailed studies to clear 19 Nos. of proposals against other reference like strengthening/arch shaped RC boxes on flood point of view submitted by Division/CN.

- Detailed studies to clear 3 Nos. of proposals against replacement of super structure on flood point of view submitted by Division/CN.
- Detailed studies to clear 3 Nos. of proposals against the revision of GADs due to the site condition requested by RVNL on flood point of view submitted by Division/CN/RVNL.
- Detailed studies to clear 1 No. of proposal against the strengthening the arch shaped RC box in VM-TPJ (M) on flood point of view submitted by Division/CN.
- Detailed studies to clear 1 No. of proposal against the water overflows at the bridge site in CUPJ-VRI section on flood point of view submitted by Division/CN.
- Detailed studies to clear 2 Nos. of Siding proposal on flood point of view submitted by Division/CN.

B. River Gauging and Survey Works :

During the monsoon of 2015-2016 3 bridge sites were gauged in the Southern Railway as per the direction of RDSO/LKO. Hydro meteorological data were collected from the 3 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' in the state of Tamilnadu, Kerala, Puduchery, Andhra Pradesh and Karnataka.

During the year 2015-16 the above meeting was held for Tamilnadu, Andhra Pradesh and Karnataka on 15.10.2015, 29.06.2015 and 26.05.2015 respectively.

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

The Draft Manual of Instructions for Railway Affecting Works prepared in 1964 by the Research Design and Standards 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 Puduchery and Kerala have been approved by the concerned State Governments and Government Orders issued in this respect. Printed manuals pertaining to Tamilnadu, Andhra Pradesh, Karnataka and Union Territory of Pondicherry have been circulated among concerned officials. The manual pertaining to Kerala is under Printing.

E. Breaches and washaways

Details of breaches and washaways occurred during the year 2015-16 as follows :

Sl. No.	Division	Section	Date	Month	Year	Location (Km./Post)	Description of Damages
1.	MDU	TPJ-MDU	11	10	2015	448/000-100 (Up line)	Approximately 400cum of earth /boulder fallen over the track at cutting.
2	SA	JTJ-ED	5	11	2015	Br. No. CV 11(2x18.29MG) at km 389/44-46 Down line	The tall bank is eroded almost upto the bottom of sleeper of approximately 12m parallel to the track and for a width of approximately 15m on the tall bank of approximately 12m high. (Heavy rain fall 140mm near Erode). Trains are not affected, on the down line and the trains are being piloted at restricted speed of 10 kmph.
3	TPJ	CUPJ-VRI	9	11	2015	8/100-200	Water over flowed the track and Ballast Washed away for about 35m length.
4	TPJ	CUPJ-VRI	9	11	2015	16/800-17/000	Water over flowed the track and Ballast Washed away for about 20m length.
5	TPJ	CUPJ-VRI	9	11	2015	25/6-26/4	In 26/2-4, on both side of Br.62 (1X 4.50m RC Box) about 60m, the full formation got eroded and the formation soil mixed with ballast was seen on LH side within the parallel Road on LH side. The track for about 30m length in on stretch was hanging with a max sag of about 1.5m
6	TPJ	CUPJ-VRI	9	11	2015	39/9-40/0	
7	TPJ	CUPJ-VRI	9	11	2015	CUPJ-Yard	Ballast washed away with erosion of slope Main line formation Disturbed (Road 2 suspended @ 12.34 Hrs)
8	MAS	CGL-VM	9	11	2015	65/15-17 (Up line)	Ballast Washed away.
9	MAS	MAS-AJJ	9	11	2015	AJJ Yard	Water logging. Drainage blocked due to CN Works.
10	MAS	MAS-AJJ	13	11	2015	55/12-56/4 (Down Line)	Ballast Washed away along with bank erosion.
11	MDU	MEJ-TN	13	11	2015	645/000-400	Water over flowed the track.
12	MAS	MAS-GDR	16	11	2015	Brid No 167 (at km 78/27-79/1 78/27-79/1 of span 11X18.3m G in DN line and 9X18.3 G + 3X12.2m G on UP line)	Water flowed above danger level over DN line bridge from 7.00 hrs. and over UP line bridge from 13.45hrs.-and traffic over DN line and UP line bridges has been suspended from 7.00 hrs/ 13.30hrs respectively. Heavy rainfall exceeding 150mm (as measured at 08.30 hrs on 16.11.15) and full surplus discharge from the kalinga dam located on the upstream side of Br 167.

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13	MAS	MAS-AJJ	16	11	2015	Brid No.14 (at km 2/34B-36B of span 2X7.72m UP & DN fast line)	Water flowing upto bottom of girder lin DN and UP fast line bridges from 13.30hrs. and traffic over the bridge has been suspended from 13.30 on both DN fast & UP fast lines. Heavy rainfall exceeding 250mm (as measured at 08.30 hrs on 16.11.15)and continuous rainfall occurring thereafter.
14	MAS	MSB-VM	16	11	2015	85/2-10 (Down Line)	Water over flowed the track by 15cm.
15	MAS	MAS-GDR	17	11	2015	km 126/23 21Up line	Cess erosion
16	MAS	MAS-GDR	17	11	2015	km 125/25 23 Up line	Cess erosion
17	MDU	MEJ-TN	23	11	2015	645/000-400	Water over flowed the track
18	MAS	MSB-VM	1	12	2015	31/1-32/4	Water over flowed track with disturbance to ballast.
19	MAS	MSB-VM	1	12	2015	38/7/-39/0	Bank washed out at 6 locations for a total length of 500m on approaches of Br. Nos.117, 118 & 119 for an average depth of 1.0m.
20	MAS	MSB-VM	1	12	2015	85/0-5	Water over flowed track and ballast washed out.
21	MAS	MAS-AJJ	1	12	2015	Bridge No. 14 (at km 2/34B-36B of span 2X7.72m G in UP & DN fast line).	Water flowing upto BOG
22	MAS	CGL-AJJ	1	12	2015	1/400-2/400	Cess erosion/formation slipped down upto sleeper edge due to heavy flood in to Br. No. 6 and water flowed 0.60m below the BOG. by 15cm.
23	MAS	MAS-GDR	1	12	2015	Bridge No.167 (at km 78/27-79/1 of span 11X18.3m G in DN fast line).	Water Level touched the B.O.G.
24	MAS	MSB-VM	1	12	2015	Brid No. 53(A & B lines & Slow lines) 6X18.30m PSC G is built across River Adayar at km13/29-35.	Water over flowed track and PSC Girder of Up slow line shifted laterally by 50cm. (at around 13.00hrs,the flow raised above danger level and around 16 hrs. it started overflowing and reached a max of about 150mm above the parapet. level. (app150mm above Rail level).

14B-Rehabilitation of Bridges : 2015-16

Sl. No.	Name of Work	No. of Bridges where work has been completed.	No. of Bridges where work in progress.
	(a) Regirdering:	1	0
	(i) Replacement of weak/corroded girders with new girders.	17	1
	(ii) Strengthening of weak/ corroded girders	3	1
	(b) Replacement of existing girders/ timber top with RCC slab.	0	0
14. B	Repl. of existing weak/ corroded girders with		
	(d) New girders including Strengthening of Substructures.	4	3
	(e) Rebuilding of existing weak bridges	25	17
	(f) Miscellaneous Bridge works including provision of centralised bearing, renewal of bed blocks, etc.,	6	4
	Total items (a) to (f)	56	26
14. C	Extension of existing bridges	0	0
14. D	Construction of new bridges	0	0

14 C (COMMISSIONED ROB/RUB's During 2015-16)

(i) No. of bridges : 27 (TwentySeven)

1. ROB in lieu of LC No.89 (Sulur Road yard) @ km. 218/32 - 219 in between Jolarpettai-Tirupattur station TN - JTJ - ED section. SA Division.
2. ROB in lieu of LC No.66 @ Km. 158/26 - 28 between Vellore - Melalathur stations in MAS - JTJ MAS Division.
3. ROB in lieu of LC.No. 21 @ km. 21/43-45 (Nanjundapuram) in between Coimbatore and podanur stations IGU-CBE-PTJ section. SA Division
4. ROB in lieu of LC: 96 @ km. 243/20-22 bet Kagankarai -Samalpatti (NH) JTJ-ED Section SA Division.
5. ROB in lieu of LC No.3 at km. 2/1-2 near pollachi in bet pollachi Aanaimalai Road Stns in POY-PGT Section PGT Division.
6. ROB in lieu of LC No.95 @ km. 92/16-17 in between Udumalapettai-Gomangalam in DG-POY Section MDU Division.
7. ROB in lieu of LC No.166 @ km. 211/300-400 in between Cuddalore port and Capper Quarry stations Road in VM-TPJ (M) Section TPJ Division.
8. ROB in lieu of LC No.168 @ km. 215/9-216 in between Puvanur-Vridhachalam stations VM-TPJ (C) Section TPJ Division.
9. ROB in lieu of LC No.281 @ km. 377/100-200 in between Manapparai-Chettipatti stations in TPJ-DG Section MDU Division.
10. ROB in lieu of LC No. 82 @ km. 198/34-36 in between Vaniyambadi-kettadapatti stations in MAS-JTJ Section MAS Division..
11. ROB in lieu of LC No. 181 @ km. 236/1-2 in between Pennadam -Mathur stations in VM-TPJ (C) Section TPJ Division.
12. MAS Division ROB in lieu of LC No 69 Valathur Yard @ km.163-15-17 AJJ-JTJ Section MAS Division
13. ROB in between Vyasarpadi and Korukkupet stations in (GNT ROAD-NH5)-LC No 11R, NE-21 VPY-KOK section MAS Division.
14. SA Division-Proposed ROB in lieu of LC No.2 @ km. 1/9 -11 between Irugur-Pilamedu Stations in ED - CBE-PTJ section SA Division.
15. Pelamedu &Coimbatore North LC No 11 @ km.12/19-21 Rathinapuri gate IGU-CBE-PTJ Section SA Division.
16. Srirangam @ Trichchappalli Town @ km. 341/3-4 in VM-TPJ
17. MAS Division -Proposed ROB in lieu of L.C. No.1A @ km. 6C-7D in between Vyasarpadi Jeeva-Korykkupet Stations. (Kathivakkam-Cochrane Basin Bridge) in MAS-GDR Section.
18. ROB in lieu of LC No. 473 @ Km.578/600-700 near Paramakudi in bet Sudiur and Paramakudi MDUDivision MNM-RMM-Section.
19. Pro RUB in lieu of LC No 113 @ km.332 - 8-10 bet in Salem Jn. and Magnesite Station SA Division SA YARD Section.
20. Pro. Addl. 3L to exg. ROB LC No.147A @ Rly km.49/13-14 in POY-PGT section at (Pudunagaram) (NH-47@ km 209)-REVD PGT Division POY-PGT Section.
21. RUB in lieu of L.C. No.33(Ettumanur) @ km. 56/200-300 in between Ettumannur and Kottayam(Kumaranallore) Station in ERS-QLN Section. TVC Division.
22. ROB in lieu of L.C. No.45 (Aloor) @ km.58/100 -200 in Aloor-MalaRoad in between Irinjalakuda and Chalakudi Stations in SRR - ERS sections. TVC Division.
23. ROB in lieu of LC No.52 (Divine nager) @ km. 65/600-700 on NH.47 in between Chalakkudy-Karukutty Stations in SRR - ERS section.TVC Division.
24. ROB in lieu of LC No.71 (Idapalli) @ km.102/800-900 on Ernakulam-Chittur Road in between Idapalli and Ernakulam Town Stations in SRR-ERS section TVC Division
25. Shoranur-Nilambur section : ROB in lieu of L.C. No.7 @ km. 27/200-300at Angadipuram Station. SRR-NIL Section. PGT Division.
26. Addl 2 Lane Road Over Bridge to the existing 2 lane ROB L.C. No.213 A @ km.104/500-600 at Ernakulam Railway stations of Thiruvananthapuram Division SRR - ERS sections. TVC Division.
27. RUB in lieu of LC No.50 (Karukkutty) @ km. 64/200-300 in between Chalakkudy-Karukutty Stations in SRR - ERS section.TVC Division.

15. Bridge Workshops (2015-16)

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	624.904	0
2.	Fabrication of Steel works - other than Girders like Foot Over Bridges, Platform Shelters, Flood Light Towers, Tanks & Steel Cribbs, etc.,	97	1965.347	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 Rack Bars, etc.,	0	0	0
4.	Fabrication of Permanent Way Items like Points & Crossings, Glued joints, Points & Crossing Sleepers, CST 9 Sleepers, Reconditioning of Bearing Plates & Fish Plates, Hook/ Anchor Bolts, Jimcrow, Lifting Barriers, Winches, Push Trolleys, Dip Lorries and Motor Trolleys, etc.,	0	0	0
5.	Other items like Reconditioning of Sleepers, manufactureing of Skids, Beaters and other Miscellaneous items, etc.,	0	0	0
6.	(1) Manufacture of RCC Bridge Slabs	0	0	0
	(i) Manufacture of RCC Bridge Slabs - MG	0	0	0
	(ii) Manufacture of RCC Bridge Slabs - BG	0	0	0
	(iii) Manufacture of PSC- MG Sleepers (Post Tensioned)	0	0	0
	(iv) Manufacture of PSC- MG Mono Block Sleepers (Pre Tensioned)	0	0	0
	(v) Manufacture of MG - RCC Twin Block Sleepers	0	0	0
	(vi) Manufacture of RCC pipes of various diameter and Length.	0	0	0
	(vii) Speed breaker	0	0	539
	(viii) Curve Board	0	0	173
	(ix) CC platform shelter 2'x2'x3"	0	0	482
	(x) RCC slab 1'-6" x 1'6" x 0-4"	0	0	3508
	(xi) CC paver blocks for LC's	0	0	760
	(xii) CC KM Post	0	0	1354
Total		97	2,590.251	6,816

16. Permanent Way Renewals and welding of Rail Joints :

1. Permanent Way Renewals.—The physical progress of Permanent Way Renewals during 2015-2016.

(a) Through Renewals :

(Fig. in Track Kilometres)

Gauge	Primary		Secondary	
	Through Rail Renewal	Through Sleeper Renewal	Through Rail Renewal	Through Sleeper Renewal
Broad	224.84	71.00	46.43	31.85
Metre	0.00	0.00	0.00	0.00
Total	224.84	71.00	46.43	31.85

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

Type of point	BG	MG	Total	TTR Weihtage
1 in 16	1	-	1	1
1 in 12	33	-	33	33
1 in 8.5	115	-	115	115
Special layouts	5	-	5	10
Traps	41	-	41	10.25
Switch + xing	25	-	25	12.5
Switch	145	-	145	36.25
Crossing	136	-	136	34
Total:	501	-	501	252

(c) Points of Channel Sleepers :

Gauge	No. of Sleepers
Broad + Metre.. ..	321

(d) Ballast put into the track during 2015-16 (in Thousands of cu.mts.)

Total Ballast collection during the year : 590.90 Total Ballast inserted during the year : 636.20

16.2—Track Materials used during the year 2015–16.

The permanent way materials used during the year 2015–16 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	71.71	153.13	0.00	0.00	0.00	0.00	224.84
Metre	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total :	71.71	153.13	0.00	0.00	0.00	0.00	224.84

(b) Sleepers(in track kilometres)

Gauge	Concrete	Steel	CST-9	Wooden	others	Total
Broad	102.85	0.00	0.00	0.00	0.00	102.85
Metre	0.00	0.00	0.00	0.00	0.00	0.00
Total	102.85	0.00	0.00	0.00	0.00	102.85

(c) Composite wooden blocks and converted sleepers(in track kilometres)

Gauge	Concrete	Wonder Blocks in Nos.	Converted steel trough sleepers Nos.	Total
Broad	910	0.00	0.00	910
Metre	0.00	321	0.00	321
Total	910	321	0.00	1231

16.3—Materials in the track 2015-16—(Running Track) :**(a) Rails***(in Track Kilometres)*

Gauge	60 Kg.	52 kg.	90 lbs.	75 lbs	60 lbs.	50 lbs.	others	Total
BG ..	1464	5131	0	0	0	0	0	6595
MG ..	0	0	7	0	38	1	0	46
Total ..	1464	5131	7	0	38	1	0	6641

(b) Sleepers*(in Track Kilometres)*

Gauge	Concrete	Steel	CST-9	Wooden	Others	Total
Broad	6595	0	0	0	0	6595
Metre	7	19	19	1	0	46
Total	6602	19	19	1	2	6641

(c) Turnouts : (Main Lines)

(in Nos.)

	1 : 16		1 : 12		1 : 8.5		1 : 6		Total
	BG	MG	BG	MG	BG	MG	BG	MG	
PSC ..	51	0	2642	0	1027	0	0	3720	0
Steel ..	0	0	0	1	0	2	0	0	3
Wooden ..	0	0	0	2	0	31	20	0	53
Total ..	51	0	2642	3	1027	33	20	3720	56

16.4.-Welding of Rail Joints :

(a) Total No. of joints welded during the year 2015-16.

(Figures in Nos.)

Gauge	Total No. of Joints welded
Broad + Metre	19,271

(b) Total length of welded track as on 31st March 2016

(Figures in Track Kms.)

Gauge	Short Welded Panels	Long Welded Rails/Continuous Welded Rails	Total
Broad..	711	5838	6549
Metre ..	0	0	0
Total ..	711	5838	6549

(c) Flash Butt Welding Plant :

The work done at the Flash Butt Welding Plant in the Railway 2015-16.

Plant at	Number of joints Welded
Arakkonam	The ESAB Stationary welding plant commissioned during 1986 broke down during August 2013 The ESAB welding machine was repaired by replacing the control panel from the system of printed circuit board (PCB) to programmable logical controller (PLC) and by utilising various parameters welding work have been restored to from 09/02/2016. An agency is carrying out the welding by mobile Flash Butt welding Plant and the production for the year is 100650 joints for the year 2015-16.

16.5-Speed Restriction :

(a) Speed Restrictions in force on 31st March 2016 due to poor condition of track :-

(in Kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2016	-Nil-	-Nil-	-Nil-

(b) Speed Restriction in force as on 31st March 2016 due to reasons otherthan the above :-

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

(in kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2016	267.43	0.00	267.43

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

(in kilometres)

As on	Broad Gauge	Metre Gauge	Total
31-3-2016	346.61	0.00	346.61

17. Track Renewals

Renewals of the following track kilometres were carried during 2015-16:-

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

Division	Broad Gauge	Metre Gauge
Chennai ..	87.62	0.00
Salem ..	26.95	0.00
Palakkad ..	9.50	0.00
Thiruvananthapuram ..	66.62	0.00
Tiruchchirappalli ..	52.08	0.00
Madurai ..	28.50	0.00
Total ..	271.27	0.00

(ii) Through sleeper renewals (Primary & Secondary)

Division	Broad Gauge	Metre Gauge
Chennai ..	76.41	0.00
Salem ..	3.82	0.00
Palakkad ..	0.71	0.00
Thiruvananthapuram ..	12.57	0.00
Tiruchchirappalli ..	3.83	0.00
Madurai ..	5.50	0.00
Total ..	102.84	0.00

18. Chapter IV para Natural Causes, Floods, Cyclones, Fire & Civil Disturbance etc. (Damages)

Sl. No.	Division	Station-Section particulars	Approximate cost of damages (₹ in Lakhs)
1.	MAS	TRL-MAS (P Way Section)	3,000
		CGL-AJJ (Due to flood, breach between CGL-PALR)	25,000
		MS (Shifting of Girder at Br.53)	30,000
		CGL-OV (UP)	2,000
		MMK Yard Up line.	10,000
		MMK Yard down line.	10,000
		MPK-Stores of SSE/W/MPK	1,000
		MS-Roads, floors & colony Quarters.	50,000
2.	SA	Nil	
3.	PGT	Nil	
4.	TVC	Nil	
5.	TPJ	Breach restoration work at Km. 26/200-400 between VRI-CUPJ.	4.20
6.	MDU	Nil	
7.	CE/CN/ERS	Nil	
8.	CE/CN/MS	Nil	
9.	MTP	Nil	

19. Staff Amenities

Sl. No.	Division	Name of work	Estimate Cost in lakhs
(II) Improvements to Water supply.			
(A) Works Completed :—			
(a) Works costing more than ₹ 5 lakhs each.—			
1	MAS	Maintenance of water supply-PWQ Provision of deep bore wells-SE/W/MS & SG.	26,755 21.244
2	SA	—	
3	PGT	CAN & CLT - Provision of toilets and borewell at level crossings.	22.52
4	TVC	—	
5	TPJ	—	
6	MDU	—	
7	CE/CN/MS	—	
8	CE/CN/ERS	—	
9	MTP	—	
(b) Works costing less than Rs.5 lakhs each.			
1	MAS	—	
2	SA	—	
3	PGT	Repairs to pipe line to the LC gate No.178. Repairs to the water tank with staging.	0.5867 0.29615
4	TVC	—	
5	TPJ	—	
6	MDU	—	
7	CE/CN/ERS	—	
8	CE/CN/MS	—	
9	MTP	—	
(B) Works in Progress.			
(a) Works costing more than Rs.5 lakhs each.			
1	MAS	MAS-GDR Section - Supply of drinking water by tanks mounted on lorries to colony. Replacement of existing tank with RCC tank 50,000 litre capacity at MJR.	7,200 37,460
2	SA	—	
3	PGT	MHE & CLT - MHE - Repairs to collapsed pitching and damaged protection wall of existing pond near running room. Provision of borewells for gate lodges at LCs.	19.72 20.48
4	TVC	Drainage arrangements at Poojappura, Thanpanoor & pettah colonies. Ernakulam Coaching complex - Watering arrangements by laying 200 mm dia pipe from Muvatupuzha river near Piravam Road station.	179.39 806.00
5	TPJ	1. SRPM - Replacement of cast iron pipe line (2001 m) & Ponmalai - Replacement of steel tank by reinforced concrete cement tank (id.417/03-04, CE/OL). 2. SRPM - Improvements to sedimentation tank at SRPM. 3. SRPM - Renewal of corroded main steel pipe line 375 mm dia with 400 mm dia ductile iron pipe for residual length of 2100 metres long.	249.43 5.00 225.38
6	MDU	TEN - Reconstruction of RCC OHT 90000 litres capacity at Jawahar Colony. DG - Construction of RCC tank including renewal of existing pipe lines at Hanumentha Nagar colony. MPA & PDKT - Construction of RCC tank 90,000 in lieu fo tank.	17.23 13.14

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7	CE/CN/MS	—	
8	CE/CN/ERS	—	
9	MTP	—	
b. Works costing less than Rs.5 lakhs each.			
1	MAS	—	
2	SA	—	
3	PGT	Repairs to pump house near new water tank.	1.81
4	TVC	—	
5	TPJ	—	
6	MDU	—	
7	CE/CN/MS	—	
8	CE/CN/ERS	—	
9	MTP	—	

II. Improvements to Sanitation.**A. Works completed.****a) Works costing more than Rs.5 lakhs each.**

1	MAS	—	
2	SA	—	
3	PGT	CLT & CAN - Cleaning of underground sewage system in Railway Colony and station.	32.45
4	TVC	Repairs to toilet at Divisional office.	44.93
5	TPJ	—	
6	MDU	—	
7	CE/CN/MS	—	
8	CE/CN/ERS	—	
9	MTP	—	

b) Works costing less than Rs.5 lakh each.

1	MAS	—	
2	SA	—	
3	PGT	Repairs to the toilet of LC 205	0.72424
		Repairs to the toilet of LC 209A.	0.62312
4	TVC	—	
5	TPJ	—	
6	MDU	—	
7	CE/CN/MS	—	
8	CE/CN/ERS	—	
9	MTP	—	

B. Works in Progress.**a) Works costing more than Rs.5 lakhs each.**

1	MAS	PER PT colony - Improvement to Sewage	160.732
		TBM - Sewage Treatment (1258 of LAW 09-10)	94.169
		ADEN/CGL sub division	81.000
		Maintenance of Sewerage - ADEN/Metro Sub division.	83.523
		Maintenance of Sewerage - MS & SG	32.92
		Repairs to Drainage - TBM East Colony.	46.334

2	SA	—	
3	PGT	CLT & CAN - Cleaning of underground sewage system in Railway Colony and Station for 2 years.	34.08
		CLT - Repairs to the existing damaged underground drainage arrangements.	15.127
4	TVC	Improvements to drainage arrangement at Poojappura, Thanpanoor and Pettah colonies	179.39
5	TPJ	GOC - Improvements to toilets at various stop.	76.39
6	MDU	—	
7	CE/CN/MS	—	
8	CE/CN/ERS	—	
9	MTP	—	
b) Works costing less than Rs.5 lakh each.			
1	MAS	—	
2	SA	—	
3	PGT	—	
4	TVC	—	
5	TPJ	—	
6	MDU	—	
7	CE/CN/MS	—	
8	CE/CN/ERS	—	
9	MTP	—	

CHAPTER IV – PARA 20

20. LEVEL CROSSING

1	No. of Level Crossings category wise [As on 31-03-2016]		
	Special Class	:	414
	'A' Class	:	168
	'B' Class	:	147
	'C' Class	:	1145
	'C' Class Unmanned	:	615
	Canal Crossing	:	5
	Total	:	2494
2	No. of Level Crossings manned during 2015-2016	:	43
a	Safety Fund	:	Nil
b	At State Government's Cost [Reimbursable from 80% segment of RSWF]	:	Nil
c	Others [MPLADS]	:	Nil
	Total	:	43
3	No. of Level Crossings where additional men were provided without upgrading during 2015-2016	:	0
4	No. of Level Crossings provided with Lifting Barriers during 2014-2015	:	1
5	No. of Level Crossings provided with Lifting Barriers during 2015-2016	:	26
a	Interlocked Level Crossings	:	1232
b	Non-interlocked Level Crossings	:	643
	Total	:	1875
6	No. of Level Crossings where traffic census was taken in 2015-2016 and action taken in such cases.	:	677
7	No. of Level crossings downgraded during 2009-2010	:	1
8	No. of Level Crossings De-manned / Closed during 2009-2010	:	82

21 (a) Statistics of Rail Usage

Primary Rail renewal carried over on various sections during the year 2015-2016

Name of the Section	UP/DN/ SL	Year of sanction	Sanctioned Length	Exg. Rail Section	Rail Renewal done with	Length Renewed during the year
BROAD GAUGE						
ROUTE-' A '						
Chennai Central - Gudur	Down	2015-16	22.39	52 kg	60 kg	15.92
Chennai Central - Gudur	UP	2013-14	8.50	52 kg	60 kg	0.20
Chennai Central - Gudur	UP	2015-16	14.30	52 kg	60 kg	14.30
ROUTE-' B '						30.42
Chennai Central - Arakkonam	Down Slow	2013-14	2.19	52 kg	60 kg	2.58
Chennai Central - Arakkonam	Down Slow	2015-16	0.60	60 kg	60 kg	0.60
Chennai Central - Arakkonam	UP Slow	2015-16	0.65	60 kg	60 kg	0.65
Chennai Central - Arakkonam	Down	2015-16	2.25	60 kg	60 kg	2.50
Chennai Central - Arakkonam	UP	2015-16	2.30	60 kg	60 kg	2.30
Chennai Central - Arakkonam	Down Fast	2013-14	2.86	60 kg	60 kg	0.89
Chennai Central - Arakkonam	Down Fast	2015-16	2.90	60 kg	60 kg	0.70
Chennai Central - Arakkonam	UP Fast	2013-14	0.85	60 kg	60 kg	0.85
Chennai Central - Arakkonam	UP Fast	2014-15	2.00	60 kg	60 kg	2.00
Chennai Central - Arakkonam	UP Fast	2015-16	5.80	60 kg	60 kg	6.30
Arakkonam - Jolarpettai	Down	2013-14	1.06	52 kg	60 kg	0.50
Arakkonam - Jolarpettai	UP	2013-14	0.10	52 kg	60 kg	0.10
Arakkonam - Jolarpettai	Down	2015-16	2.08	60 kg	60 kg	0.22
Arakkonam - Jolarpettai	UP	2015-16	2.62	60 kg	60 kg	2.46
Arakkonam - Renigunta	Down	2013-14	0.80	52 kg	52 kg	0.80
Tambaram - Chengalpattu	Down	2014-15	16.50	60 kg	60 kg	0.65
Chengalpattu - Villupuram	UP	2015-16	7.00	52 kg	52 kg	8.98
Chengalpattu - Villupuram	UP	2015-16	0.60	52 kg	60 kg	0.60
Jolarpettai - Salem	UP	2015-16	4.20	52 kg	60 kg	1.29
Jolarpettai - Salem	UP	2015-16	1.00	52 kg	52 kg	0.63
Jolarpettai - Erode	UP	2015-16	14.35	60 kg	60 kg	3.83
Jolarpettai - Erode	Down	2015-16	3.73	60 kg	60 kg	2.73
Salem - Erode	UP	2014-15	0.95	52 kg	60 kg	0.20
Salem - Erode	UP	2015-16	2.96	60 kg	60 kg	2.38
Erode - Irugur	Down	2015-16	4.41	52 kg	52 kg	4.41
Erode - Irugur	UP	2015-16	0.49	52 kg	52 kg	0.75
Erode - Podanur	UP	2015-16	6.15	52 kg	52 kg	6.00
Shoranur-Ernakulam	Down	2012-13	0.94	52 kg	52 kg	0.57
Shoranur-Ernakulam	Down	2015-16	4.61	52 kg	52 kg	4.51
Shoranur-Ernakulam	UP	2015-16	0.74	52 kg	52 kg	0.74
Villupuram-Tiruchchirappalli (Chord)	SL	2014-15	4.00	52 kg	52 kg	1.00
Villupuram-Tiruchchirappalli (Chord)	SL	2015-16	42.45	52 kg	52 kg	42.45
Villupuram-Tiruchchirappalli (Chord)	UP	2015-16	4.20	52 kg	52 kg	2.00
Tiruchchirappalli -Dindugal	SL	2013-14	2.28	52 kg	52 kg	0.85
Tiruchchirappalli -Dindugal	SL	2014-15	9.60	52 kg	52 kg	8.23
ROUTE-' C '						116.25
Chennai Beach-Velachery	Down	2013-14	3.31	60 kg	60kg	2.12
Chennai Beach-Velachery	UP	2013-14	3.31	60 kg	60kg	2.12

Name of the Section	UP/DN/SL	Year of sanction	Sanctioned Length	Exg. Rail Section	Rail Renewal done with	Length Renewed during the year (in Km)
ROUTE-' D '						
-2-						
Kozhikode - Mangalore	Down	2015-16	0.80	52 kg	60 kg	0.80
Kozhikode - Mangalore	Down	2015-16	4.39	52 kg	52 kg	4.39
Mangalore Jn. - Panambur	SL	2014-15	1.08	52 kg	52 kg	1.08
Mangalore Jn. - Tokkur	SL	2015-16	1.15	52 kg	52 kg	1.15
Ernakulam - Alapuzha-Kayankulam	SL	2015-16	12.90	52 kg	52 kg	14.29
Ernakulam - Alapuzha-Kayankulam	UP	2015-16	1.00	52 kg	52 kg	1.00
Ernakulam - Alapuzha-Kayankulam	SL	2015-16	20.53	52 kg	52 kg	23.37
Kayankulam - Kollam	Down	2013-14	4.68	52 kg	52 kg	0.71
Kayankulam - Kollam	Down	2013-14	3.38	52 kg	60 kg	1.69
Kayankulam - Thiruvananthapuram Central	Down	2015-16	5.45	52 kg	52 kg	4.81
Kayankulam - Thiruvananthapuram Central	UP	2015-16	8.41	52 kg	52 kg	5.81
Kollam - Thiruvananthapuram Central	Down	2013-14	0.23	52 kg	60 kg	0.23
Dindugal-Madurai	UP	2014-15	5.22	52 kg	52 kg	5.25
Virudunagar-Vanchimaniyachi	SL	2014-15	11.55	52 kg	52 kg	7.55
Vanchimaniyachi - Tirunelveli	SL	2015-16	1.10	52 kg	52 kg	1.10
TNHP	Road 3	2015-16	0.70	52 kg	52 kg	0.70
						73.93
TOTAL PRIMARY RENEWAL						224.84
METER GAUGE :						-NIL-
SECONDARY Rail renewal carried over on various sections during the year 2015-2016						
Chennai Central - Gudur	Yard	2014-15	8.17	52 kg-II	52 kg- II	3.63
Chennai Central - Arakkonam	Yard	2011-12	4.00	90R/80BH	52 kg- II	2.71
Chennai Central - Arakkonam	Yard	2015-16	9.00	52 kg	52 kg- II	0.90
Arakkonam - Jolarpettai	Yard	2010-11	5.90	90 R	52 kg- II	0.60
Arakkonam - Jolarpettai	Yard	2012-13	10.21	90R/80BH	52 kg- II	6.56
Jolarpettai - Erode	Gooos Yard	2012-13	3.00	90 R	52 kg- II	1.10
Jolarpettai - KSR Bengaluru	Gooos Yard	2012-13	3.00	90 R	52 kg- II	3.00
Jolarpettai - Erode	ED Yard	2012-13	4.38	90 R	52 kg- II	0.30
Erode - Irugur	Yard	2013-14	4.47	90 R	52 kg- II	4.36
Podanur-Shoranur	OTP Yard	2015-16	0.45	90 R	52 kg- II	0.15
Podanur-Shoranur	SRR Yard	2010-11	2.45	80 BH	52 kg- II	0.35
Podanur-Shoranur	SRR Yard	2015-16	1.03	OTHERS	52 kg- II	0.45
Villupuram- Tiruchchirappalli (CHORD)	TPJ Yard	2012-13	3.83	90 R	52 kg- II	2.25
Villupuram- Tiruchchirappalli (CHORD)	TPGY Yard	2013-14	9.35	90 R	52 kg- II	3.29
Podanur-Shoranur-Kozhikode	Yard	2013-14	3.77	90 R	52 kg- II	0.52
Cannanore-Mangalore Central	MAQ Yard	2012-13	1.40	52 kg-II	52 kg- II	0.60
Ernakulam-kottayam-kayankulam	MNTT Yard	2014-15	2.25	90 R	52 kg- II	0.74
Ernakulam-kottayam-kayankulam	ERM Yard	2012-13	5.81	90 R	52 kg- II	1.46
Emakulam-Thiruvananthapuram Central	Yard	2013-14	5.16	52 kg-II/90R	52 kg- II	0.76
Kanyankulam - kollam	QLN Yard	2013-14	0.29	0.29	52 kg- II	0.29
Kanyankulam -Thiruvananthapuram Central	Yard	2012-13	4.12	90 R	52 kg- II	0.85
Thiruvananthapuram Central Yard	TVC Yard	2013-14	3.13	90 R	52 kg- II	2.45
Nagercoil - Tirunelveli	Yard	2014-15	2.57	90 R	52 kg- II	1.82
Manamadurai- Rameswaram	Pamban Bridg	2012-13	2.10	90 R	52 kg- II	1.60
Thiruvananthapuram Central- Nagercoil	Yard	2012-13	0.68	90 R	52 kg- II	0.59
Basin Bridge- Washermenpet	UP Down	2013-14	2.80	52 kg- II	52 kg- II	0.80
Tanjavur - Thiruvarur	SMM Yard	2012-13	1.50	90R-II	52 kg- II	0.30
Tiruchchirappalli - Tiruchchirappalli Fort	TP Yard	2010-11	1.56	90R-II	52 kg- II	0.79
Madurai Division	Yard	2015-16	9.30	90R	52 kg- II	3.22
Secondary BG Total						46.43
Secondary MG Total						NIL

21. (b) Average traffic in Gross Million Tonnes per running track kilometrage carried over on various sections during the year 2015-2016.

Sl. No.	Section	Group	GMT carried during 2015-16 (in million Tonnes)		
			Double Line		Single Line
			UP	DN	
	Broad Gauge				
1	Chennai Central – Gummidipundi	A	24.81	21.90	..
2	Gummidipundi – Sullurpeta	A	20.26	17.35	..
3	Sullurpeta – Gudur	A	18.71	15.80	..
1	Chennai Central –Tiruvallur(Fast Line)	B	29.40	36.39	..
1a	Chennai Central –Tiruvallur(Slow Line)	B	17.39	17.39	..
2	Tiruvallur– Arakkonam	B	34.77	41.76	..
3	Arakkonam – Katpadi	B	33.51	46.14	..
4	Katpadi–Jolarpettai	B	33.60	46.23	..
5	Arakkonam – Tiruttani	B	30.66	22.05	..
6	Tiruttani – Renigunta	B	28.68	20.07	..
7	Jolarpettai– Salem	B	22.86	36.74	..
8	Salem – Erode	B	21.77	27.36	..
9	Erode –Irugur	B	22.31	25.76	..
10	Irugur– Coimbatore – Podanur	B	22.31	25.76	..
11	Irugur – Podanur	B	..	..	..
12	Podanur– Palakkad	B	18.36	20.04	..
13	Palakkad –Shoranur	B	18.36	19.62	..
14	Shoranur – Ernakulam	B	20.98	20.73	..
15	Chennai Beach – Tambaram (EMU)	B	24.73	24.73	..
15a	Chennai Egmore – Tambaram	B	12.65	14.23	..
16	Tambaram – Chengalpattu	B	20.99	22.57	..
17	Chengalpattu– Villupuram	B	12.78	14.36	..
18	Villupuram –Tiruvannainallur Road	B	..	..	18.62
19	Tiruvannainallur Road – Ariyalur	B	9.63	8.99	..
20	Vriddhachalam – Ariyalur	B	..	..	18.62
21	Ariyalur – Valadi	B	9.63	8.99	..
22	Valadi – Golden Rock	B	..	..	18.62
23	Golden Rock– Tiruchchirappalli	B	15.66	15.02	..
24	Tiruchchirappalli –Dindigul	B	..	..	14.76
1	Chennai Beach – Velachery	C	8.35	8.35	..
2	Washermanpet – Chennai Beach	C	12.78	14.36	..

Sl No.	Section	Group	GMT carried during 2015-16 (in million Tonnes)		
			Double Line		Single Line
			UP	DN	
1	Erode – Tiruchchirappalli Fort	D	..	..	11.23
2	Shoranur – Kozhikkode	D	13.36	13.44	..
3	Kozhikkode – Kannur	D	13.67	13.98	..
4	Kannur – Mangalore	D	12.85	12.23	..
5	Mangalore –Thokur	D	..	..	8.02
6	Ernakulam–Piravam Road	D	11.86	10.17	..
7	Piravam Road –Chengannur	D	..	..	22.02
8	Chengannur –Kayankulam Jn.	D	11.86	10.17	..
9	Kayankulam – Kollam	D	11.95	10.26	..
10	Kollam –Tiruvananthapuram Central	D	13.21	13.55	..
11	Ernakulam –Alappuzha	D	..	..	14.61
12	Alappuzha – Haripad	D	..	..	12.33
13	Haripad - Kayankulam	D	7.05	5.29	..
14	Villupuram–Mayiladuthurai	D	..	..	10.68
15	Mayiladuthurai–Goldenrock	D	..	..	12.06
16	Villupuram–Vellore Cantonment	D	..	..	4.03
17	Vellore Cantonment – Katpadi	D	..	..	4.29
18	Karur– Dindigul	D	..	..	9.55
19	Dindigul –Madurai	D	11.89	11.78	..
20	Madurai – Virudunagar	D	..	..	18.85
21	Virudunagar – Vanchi Maniyachchi	D	..	..	18.85
22	Nagarcoil –Tirunelveli	D	..	..	9.63
23	Tiruchchirappalli –Karakkudi-Manam	D	..	..	4.57
24	Madurai –Manamadurai	D	..	..	2.49
25	Manamadurai – Rameswaram	D	..	..	3.17
26	Virudunagar – Tenkasi	D	..	..	4.99
27	Vanchi maniyachchi – Tirunelveli	D	..	..	14.15
28	Tirunelveli – Tiruchendur	D	..	..	3.94

Sl No.	Section	Group	GMT carried during 2015-16 (in million Tonnes)		
			Double Line		Single Line
			UP	DN	
1	Walajah Road – Ranipet	E	..	..	..
2	Pattabiram–Pattabiram Military Siding	E	..	..	..
3	Villivakkam – Anna Nagar	E	..	..	..
4	Chengalpattu – Tirumalpur	E	..	..	4.47
5	Tirumalpur– Arakkonam	E	..	..	1.68
6	Salem–Metur Dam	E	..	..	22.65
7	Salem – Namakkal - Karur	E	..	..	7.14
8	Tiruchi Fort –Tiruchi Jn.	E	..	..	10.06
9	Coimbatore– Mettupalaiyam	E	..	..	2.61
10	Palakkad –Palakkad Town	E	..	..	2.02

SI No.	Section	Group	GMT carried during 2015-16 (in million Tonnes)		
			Double Line		Single Line
			UP	DN	
11	Pollachi –Palakkad Town	E	..	..	0.86
12	Shoranur-Nilambur Road	E	..	..	3.63
13	Ernakulam-Cochin Harbour Terminus	E	..	..	..
14	Thirur-Guruvayur	E	..	..	4.53
15	Tiruvananthapuram Central-Nagercoil	E	..	..	9.83
16	Nagercoil –Kanniyakumari	E	..	..	9.83
17	Villupuram-Puducherry	E	..	..	4.17
18	Cuddalore port-Vriddhachlam	E	..	..	1.75
19	Vriddhachlam- Salem Market-Salem	E	..	..	2.08
20	Mayiladuturai- Tiruvarur	E	..	..	4.35
21	Thanjavur –Tiruvarur	E	..	..	6.82
22	Thiruvarur – Nagore	E	..	..	9.30
23	Nagore – Karaikal	E	..	..	3.01
24	Nagapattinam –Velankanni	E	..	..	0.50
25	Nidamangalam –Mannargudi	E	..	..	2.62
26	Vanchi maniachchi –Tuticorin	E	..	..	6.24
27	Tirunelveli-Tenkasi	E	..	..	2.30
28	Tenkasi-Sengottai	E	..	..	3.17
29	Dindigul-Palani-Pollachi	E	..	..	3.81
30	Manamadurai-Virudunagar	E	..	..	0.90
31	Punalur-Kollam	E	..	..	1.42

22(a). Track Modernisation :

As part of Track Modernisation, Southern Railway has been in the forefront in deployment of machines for Track laying as well as for maintenance activities. From the modest beginning made in 1975 with the introduction of 3 Universal Tie Tamping machines and 4 Portal Cranes, the Track Machine fleet has grown over the past four decades with 9 Duomatic Tamping machines, 5 High output capacity CSM tamping machines, 1 High output Express Tamper, 5 Unimat Points & Crossings Tamping Machines, 1 Multi Purpose Tamper, 7 Ballast Cleaning Machines, 2 Shoulder Ballast Cleaning Machines, 5 Ballast Regulating Machines, 8 Dynamic Track Stabilisers, 2 Points & crossing Laying Machines, 1 Track Relaying Train, 8 Utility Track vehicles, thus totaling to 54 Machines.

Tamping of 7655 kms. (worksite & construction including) of track has been done by the High Output tamper and Work Site Tamping machine during 2015-16 in the Shatabdhi and other high speed and high-density routes on the Railway.

Track relaying to the tune of 45.2 Km and Turnout renewal to the tune of 107 Nos. in Open Line by Track Relaying Train and by T-28 respectively were also completed during the year 2015-16.

Deep screening to the tune of 323 kms. of plain track and 72 Nos. of turnout were completed during this year.

TRACK MONITORING:

Monitoring of track is carried out periodically using RDSO's track recording and Oscillograph cars and portable oscillations monitoring system (OMS 2000) at regular intervals to keep the track in good fettle and safe for passage of trains. 4 nos. of PC based digital OMS system (with LAPTOP) have been procured and put into operation as a part of modernization. Detailed analysis of results of these runs has enabled this Railway to progressively improve the quality of track. Computer program has been developed to generate exception reports to enable field staff for identification of location for planning maintenance.

Track Management System (TMS)

A web based Track Management System is implemented in Salem division in July 2010 as part of *E-Governance* and inspections of field staff are made in *E-form* and computer based monitoring of various track maintenance activities is introduced. Staffs are provided with notebooks up to grass root level and necessary training is imparted. This system is in the process of implementation in other 5 divisions of this railway in phased manner.

Indian Railways Projects Sanctions and Management (IRPSM):

A web based IRPSM is implemented to process for works programme for all plan heads including Track Renewals as part of *E-Governance*. This facilitates access of data at all levels and progress monitoring of various sanctioned works, on line duly eliminating paper-pen culture and speed up the process at various levels.

Para 22(b):-

Progress achieved in the various track improvement works during the year 2014-15 is as follows:-

Ballast collection (lac cum.)	5.91
Ballast Insertion (lac cum.)	6.36
Deep screening (km.)	514.70
USFD Testing (km.)	15759
Greasing ERC (km.)	4358.6
Anticorrosive painting (km.)	1647.3
Laying PSC turnouts (sets)	252
Destressing (km.)	1090.6

23. Stabilisation of Bad banks:

Progress achieved during the year 2015-16 : 5.60 kms.

Sl No.	Section	Group	GMT carried during 2015-16 (in million Tonnes)		
			Double Line		Single Line
			UP	DN	
	Metre Gauge				
1	Tiruvavur – Tiruturaipundi	S1	Closed for GC		
2	Tiruturaipundi–Karaikkudi	S1	-Do-		
3	Sengottai–Punalur	S1	-Do-		
1	Pollachi–Podanur	S2	Closed for GC		
2	Pollachi–Palakkad Town	S2	-Do-		
1	Mettupalaiyam–Coonoor	S3	..	..	0.05
2	Coonoor–Udagamandalam	S3	..	..	0.47
2	Madurai– Bodinayakkanur	S3	Closed for GC		
3	Tiruturaipundi– Agastiyampalli	S3	-Do-		

24. Length of Tunnels**Length of Tunnels**

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

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

Summary Division wise Tunnels

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

25. Details of Lineal Waterways

Gauge	Broad Gauge		Metre Gauge		Narrow Gauge		Total	
Year	2013 - 14	2014-15	2013 - 14	2014-15	2013 - 14	2014-15	2013 - 14	2014-15
Important	22755.17	22755.17	Nil	Nil	Nil	Nil	22755.17	22755.17
Major	45716.49	45716.49	1178.67	1178.67	Nil	Nil	46895.16	46895.16
Minor	33409.17	33409.17	482.24	482.24	Nil	Nil	33891.41	33891.41
Total	101880.83	101880.83	1660.91	1660.91	Nil	Nil	103541.74	103541.74

iii. Number of dwelling units/Staff Quarters (Permanent Structure) constructed and under construction during 2015-16 Para-26 Building Activities for the year 2015-16

		1	2	3	4	5	6
Sl.No.	Division Name	Type I	Type II	Type III	Type IV	Type IV	Other
a	Progress	...	215	7	12	...	...
b	Completed	...	51	41	12	2	...

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26. Building Activities for the year 2015-16.

(i) Statement showing number of projects, plinth area, estimated cost and value of work done during 2015-2016.

Sl. No.	Construction Stage	No. of Projects in Units	Total Plinth area in sq.mtrs.	Total floor area in sq. mtrs.	Estimate cost (in lakhs. of ₹.)	Value of the work done during the period (in lakhs of ₹.)	Value of the work done upto the end of the period (in lakhs of ₹.)
1. Residential building							
A. Family quarters.							
a.	In progress ..	141	8514.24	6507.84	1514.42	227.20	321.94
b.	Completed ..	46	3209.81	2693.42	614	32.80	158.24
1 B. Non-family dwelling barracks Ect.,							
a.	In progress ..	—	—	—	—	—	—
b.	Completed ..	—	—	—	—	—	—
2. Industrial building (Factories, Workshops, etc.)							
a.	In progress ..	—	—	—	—	—	—
b.	Completed ..	—	—	—	—	—	—
3. Commercial buildings (Ware house, offices etc.)							
a.	In progress ..	2	710	656.40	477.17	41.00	110.90
b.	Completed ..	1	20	10	10	10	10
4. Institutional buildings							
a.	In progress ..	—	—	—	—	—	—
b.	Completed ..	—	—	—	—	—	—
5. Other buildings (Public Libraries, Amusement building etc.)							
a.	In progress ..	2	170	160	36	20	20
b.	Completed ..	—	—	—	—	—	—

(ii) Statement showing number addition and alterations of projects, plinth area, estimated cost and value of work done during 2015-2016 on Building by construction type and stages of construction.

1. Residential building							
a. Family Quarters							
a.	In progress ..	205	4207.84	1744.00	1324.72	239.07	198.81
b.	Completed ..	9	—	392.84	—	78	—
1 b. Non-family dwelling barracks.							
a.	In progress ..	..	..	..	..	..	..
b.	Completed ..	..	..	..	..	..	..
2. Industrial building							
a.	In progress ..	..	..	..	..	..	..
b.	Completed ..	..	..	..	..	..	..
3. Commercial buildings							
a.	In progress ..	2	1098.00	1006.40	677.17	120.72	110.90
b.	Completed ..	1	20.00	17.00	10.00	10	10.00
4. Institutional buildings							
1.	In progress ..	..	..	..	..	..	..
2.	Completed ..	..	..	..	..	..	..
5. Other buildings							
1.	In progress ..	1	390.00	300.00	82.21	32.75	77.49
2.	Completed ..	..	..	..	..	..	..

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27. Land Management**(a) Tree Plantation**

Position for the year 2015-2016 is as under :

(in thousands)

(in Hectares)

Name of States	Total No. of trees surviving as on 1/4/2015	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 31/3/2016
Tamil Nadu	2089.32	95.38	2184.7	..	..	..
Karnataka						
Kerala						
Andhra Pradesh						
Total	2089.32	95.38	2184.7	..	..	..

6039 Nos. of shaddy Trees were planted on platform during the year 2015-2016.

(b) Encroachments—Position of Encroachments on Railway Land**(i) The position for the year 2015-2016 is as under :**

Total No. of encroachments as on 31-3-2015	Total No. of encroachments			Total No. of cases pending with Estate Officer at the beginning of the year 31/3/2015	No. of cases filed during the year	No. of cases decided during the year	Total No. of cases pending with Estate Officer as on 31/3/2016
	Added	Removed	Total No. of encroachments as on 31/3/2016				
9,021	0	9	9,012	2,346	0	9	2,337

(ii) Special Measures taken to remove encroachments :**(c) Position of Licensing Agreement : (Nos.) 2015-16**

Item	Total No. of cases	Total No. of cases agreements executed
a. G. M. F.	..	..
(i) Railway employees ..	..	..
(ii) Outsiders ..	..	..
b. Commercial plots including vending by Comml. Deptt.	18	12
c. Engineering plots ..	88	88
d. Shopping plots (Engg. Deptt.)	32	29
e. Oil plots ..	47	29
f. Others ..	434	407
Total ..	619	565

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

Sl. No.	Description	Actual earnings for last three years			Remarks
		2013-14	2014-15	2015-16	
1.	Licensing of land for G. M. F. ..	40.00	0.00	0.00	
2.	Sale of Grass rights ..	0.00	0.00	0.00	
3.	Sale of Fruit rights ..	0.00	0.00	0.00	
4.	Sale of Fishery rights ..	0.00	0.00	0.00	
5.	Sale of matured green trees and dry trees.	2607	5360	18800	
6.	Licensing of land for shopping purposes including Tehbazari purposes.	7.00	137	1030	
7.	Licensing of land for Oil Companies	175834	80682	1004060	
8.	Licensing of land for other purposes	360616	292810	3409740	
9.	Way leave facilities & easement rights both along road & rail approaches.	866845	750158	1520560	
10.	Other Misc. Earnings from Land	360000	292810	3400000	
Total ..	..	1765949	1421957	18390590	

(e) Outstanding Dues (In thousand rupees) 2015-2016

Sl. No.	Item	Position as on 31/3/2015	Accretion during the year (+)	Clearance during the year (-)	Balance Outstanding as on 31/3/2016
1.	G. M. F. Scheme	0	0	0.00	..
	(a) Railway Staff	0	0	0.00	0
	(b) Outsiders	12.23	0	0.00	12.23
	(c) State Governments	..	0	0.00	0
2.	Temporary Commercial Licensing	18857.55	6975	25832.00	0.55
3.	Outstanding due Oil Companies.. .. .	1960929.09	6248.15	1912067.24	55110
4.	Outstanding dues from Government Department	94597.23	140675.31	9573.54	225699
	Total	2074396.1	153898.46	1947472.78	280821.78

28. Civil Engineering Assets

Sl. No.	Year	Division Name	Plinth area of service building (in sq.m.)	Plinth area of residential buildings (in Sq. mts.)	Linear water way of bridges in mts.			Length of over and under bridges in mts.				Tonnage of steel girders bridges (Tonnes)	Tonnage of steel structures other than girder bridges (Tonnes)	Number of water Pumping points Nos.	Number of Sewerage treatment plant Nos.	Number of ballast quarries Nos.
					Major	Minor	Total (m)	F.O.B.	R.O.B.	R.U.B.	Total (m)					
1	2	3	4	5	6	7	8=(6+7)	9	10	11	12(9+10+11)	13	14	15	16	17
1	2014-15	MAS	357218.00	470665.20	4830.66	4171.20	9001.86	1372.00	940.00	845.00	2807.00	0.00	0.00	77	7	0
	2015-16		357218.00	470665.20	4830.66	4171.20	9001.86	1372.00	940.00	845.00	156.00	0.00	0.00	77	7	0
2	2014-15	SA	142807.00	121072.00	4554.32	5412.182	11467.322	787.16	1094.00	152.45	2033.61	0.00	0.00	20	5	1
	2015-16		142807.00	121072.00	7210.73	5948.922	13159.65	787.16	1094.00	152.45	2033.61	0.00	0.00	20	5	1
3	2014-15	PGT	108200.36	167130.80	13710.00	1897.31	16339.42	1710.94	1555.98	176.96	3443.88	7074.00	2086.00	20	1	0
	2015-16		11204.88	55111.42	9442.56	1291.59	11466.17	808.39	854.86	129.76	1772.01	5134.00	702.00	20	1	1
4	2014-15	TVC	125985.00	102204.00	7386.37	4333.84	11720.71	1067.00	1211.50	301.00	2579.00	9580.00	3650.00	12	0	0
	2015-16		125985.00	102204.00	13238.00	4100.00	17338.00	1375.00	1999.00	431.00	3805.00	8100.00	4725.00	12	0	0
5	2014-15	TPJ	240887.45	377024.16	14083.81	5361.82	19445.63	1351.39	215.86	2055.49	3622.74	247.00	17570.20	20	14	0
	2015-16		240887.45	377024.16	14083.81	5361.82	19445.63	1351.39	215.86	2055.49	3622.74	247.00	17570.20	20	14	0
6	2014-15	MDU	232982.79	166515.50	9736.63	0.00	9736.63	549.16	165.80	247.50	962.46	0.00	0.00	31.00	8	0
	2015-16		233782.79	318320.74	..	..	..	549.06	..	..	..	..	..	31.00	8	0
7	2014-15	CE/CN/ERS	537.66	503.81	54.88	103.94	158.82	86.60	259.40	35.00	381.00	432.50	466.615	0	0	0
	2015-16		782.00	..	580.00	100.00	680.00	75.10	269.60	49.05	393.75	510.615	186.40	..	..	0
8	2014-15	CECNMS	301.00	..	2719.00	1263.00	3808.00	30.00	153.00	96.13	279.13	0.00	0.00	1.00	0	0
	2015-16		..	..	24.00	45.00	69.00	..	46.00	56.50	102.50	..	..	..	..	..
9	2014-15	MTP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	2015-16		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0
	2014-15	Total	1208919.21	1405115.47	47339.63	22543.292	79601.55	26959.27	5595.04	3813.40	20544.28	17333.50	23772.615	181	35	1
	2015-16		912667.12	1444397.52	49409.76	21018.532	71160.31	6318.10	5419.32	3719.25	12364.74	2101.615	23183.60	180	35	3

28. Civil Engineering

Plinth area of service buildings (in sqmts).	Plinth area of residential buildings (in sqmts).	Linear water way of bridges in metre			Length over and under bridges in metre				Tonnage of steel girder bridges (Tonnes)	Tonnage of steel structures other than girder bridges (Tonnes)	No. of water pumping points (Nos.)	No. of sewage treatment plant (Nos.)	No. of ballast quarries (Nos.)
4	5	6	7	8 = (6+7)	9	10	11	12 = (9+11)	13	14	15	16	17
		Major	Minor	Total (m)	FOB	ROB	RUB	Total (m)					
91267.12	1444397.52	49409.76	21018.532	71160.31	6318.10	5419.32	3719.25	12364.74	2101.615	23183.60	180	35	3



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V. परिवहन/TRANSPORTATION**HIGHLIGHTS OF FREIGHT PERFORMANCE****1. Originating Revenue Earning Traffic :**

- Originating Revenue Earning Traffic during the period 2015-16 was **33.37 MT**.
- Out of total **18.718 MT** Coal loading, **15.858 million tonnes** Coal loaded for TNEB, Private Power House and other State Power Houses. (i.e. **84.7%**)
- New traffic Pet Coke of Mangalore Refineries Ltd. Started loading at Panamburu, **20 Rakes of 0.075 MT** loaded during 2015-16 to various cement plants. .
- For the year 2015-16 new traffic of **imported coal 1.123 Million** captured from KIKP to PUC.
- Food-Grains loading by TNCSC Ltd. recorded **1.052 MT** as against 0.594 MT done in the last year (i.e. **Increase of 77%**).
- Loading of POL increased by 1.3% compared with last year.
- Exim Container loading increased by 25% compared with last year. (i.e. 0.686 MT to **0.855 MT**)
- Indigeneous Fertilizer loading for this year is **2.393 MT** as against 2.153 MT last year. (increased by **11.1%**)

2. Originating Revenue Earning Traffic (In Million Tonnes) for 2015-16 & 2014-15 compared with Board's BE target for 2015-16 are as under :—

(In Million Tonnes)

Commodity	2014-15 Actual	2015-16 (Target)	2015-16 (Actual)	%Variation over Target	%Variation over Last year
COAL	20.090	22.000	18.718	-14.9	-6.8
RMSP	4.069	4.250	2.447	-42.4	-39.9
CEMENT	2.700	3.100	1.067	-65.6	-60.5
FOODGRAINS	1.475	1.600	1.314	-17.9	-10.9
FERTILISER	3.468	3.450	3.393	-1.7	-2.2
POL	3.607	3.700	3.654	-1.2	1.3
CONTAINER	1.569	1.650	1.500	-9.1	-4.4
OTHERS	2.159	2.250	1.281	-43.1	-40.7
TOTAL	39.137	42.000	33.374	-20.5	-14.7

3. The receipt and dispatch position of wagons at inter-change points are as under. (In 8w Units)

Daily average	2014-15	2015-16	% Variation over Last year
Receipts	1844	1605	-13.0
Despatch	1853	1611	-13.1

4. The daily average TU releases (In 8w Units)

2014-15	2015-16	decrease by
2038	1789	-12.2

5. The following Operating Indices shows improvement during 2015-16 compared to 2014-15 :

	2014-15	2015-16	% Var over Last year
All wagon Holding in 8W (Dly.Avg)	8247	6800	-17.5
Diesel Loco Holding (Dly.Avg)	64	44	-31.3
AC. Loco Holding (Dly.Avg)	89	79	-11.2
WTR-All wagons (in days)	2.35	2.20	-6.4
EKM/Engine day (Diesel)	351	369	5.1
EKM/Engine day (Elect.)	435	467	7.4
NTKM / Wagon day	6388	7155	12.0
Wagon Km / Wagon day	184.0	203.4	10.5
Terminal Detention (in hh:mm) - Loading	14:48	14:27	-2.4
Terminal Detention (in hh:mm) -Un Loading	19:01	17:10	-9.7

6. Clearance of Traffic from Ports: (April-2015 to March -2016)

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

The traffic originated from various ports during 2015-16 compared to previous year 2014-15 are:

(In Million Tonnes)

Port-wise Loading for the year 2015-16 compared with last year

Name of Port	Year	Coal	Dolo	Fert	Cont	Lime Stone	Gyp sum	Others	Total	% Vari over last year
HOM	15-16	0	0.58	0.04	0.63	1.87	0	0.07	3.19	-34.5
	14-15	0	1.02	0.17	0.58	3.01	0	0.09	4.87	
ENR	15-16	8.52							8.52	+0.8
	14-15	8.45							8.45	
KIKP	15-16	2.63		0.35		0.02		0.07	3.07	-1.9
	14-15	2.25		0.44		0		0.44	3.13	
TNHP	15-16	0.81	0.01	0.24		0.01	0		1.07	+8.1
	14-15	0.67	0	0.26		0.05	0.01		0.99	
NMPT	15-16	4.48		0.38	0.01		0.33	0	5.20	-26.1
	14-15	6.01		0.44	0.02		0.32	0.25	7.04	
CHTS	15-16	0.10			0.08			0.01	0.19	-9.5
	14-15	0.10			0.10			0.01	0.21	
TOTAL	15-16	16.54	0.59	1.01	0.72	1.90	0.33	0.15	21.24	-13.9
	14-15	17.48	1.02	1.31	0.70	3.06	0.33	0.78	24.68	

7. 1. Introduction of Trains : NIL
(Including Gauge converted Section)
2. Extension of Trains : Nil
3. Increase in Frequency : Nil
4. Trains converted into Super fast : Nil
5. Trains diverted/Cancelled : Nil
6. MEMU Services Introduced : Nil
7. Speeding up of Mail/Express TRAINS :-

Sl. No.	Train No. & Description	Speeded Up by
1.	12839 HWH-MAS Mail	5 mts
2.	16090 JTJ-MAS Daily Express	5 mts
3.	22801 VSKP-MASI Weekly Express	5 mts
4.	11041 CSTM-MAS Daily Express	15 mts
5.	22626 SBC-MAS AC Double Decker Express	5 mts
6.	12077 MAS-BZA Jansatabdi Express (6 days a week ex. Tue)	5 mts
7.	16053 MAS-TPTY Daily Express	5 mts
8.	22613 MAS-HLD Weekly Express	5 mts
9.	12375 MAS-ASN Weekly Express	5 mts
10.	12389 Gaya-MS Weekly Express	15 mts
11.	11018 KIK-LTT Weekly Express	10 mts
12.	56038 PDY-MS Daily Passenger	30 mts

8. MERGER OF PASSENGER TRAINS:-

1. Train No. 56882 Villupuram-Katpadi Passenger and Train No. 56888 Katpadi-Tirupati Passenger were **Combined to run as 56882 VM-TPTY Passenger.**

2. Train No. 56887 Tirupati-Katpadi Passenger and Train No. 56885 Katpadi-Villupuram Passenger were **Combined to run as 56885 TPTY-VM Passenger.**

3. Train No. 56884 Villupuram-Katpadi Passenger and Train No. 56890 Katpadi-Tirupati Passenger were **Combined to run as 56884 VM-TPTY Passenger.**

9. Stoppages provided for Duronto Express Trains :-

S. No.	Description	At	w.e.f.
2	T. No. 22205/22206 Chennai Central-Madurai AC Duronto Bi-Weekly Express	Salem	4.1.16
3	T. No. 12223/12224 Lokamanya Tilak (T)-Ernakulam AC Duronto Bi-Weekly Express	Mangalore Jn. Kozhikode	2.1.16
4	T. No. 12283/12284 Ernakulam-Hizarath Nizanuddin Duronto Weekly Express	Mangalore Jn. Kozhikode	2.1.16

10. Change of Destination/Origination

Destination/Origination for the following trains have been changed with effect from the dates mentioned against each.

S. No.	Train No.	Existing		New destination		w.e.f.
		From	To	From	To	
1.	16031	MAS	JAT	Chennai Central	Shri Mata Vaishno Devi Katra (SVDK)	02-09-15
2.	16032	JAT	MAS	Shri Mata Vaishno Devi Katra (SVDK)	Chennai Central	04-09-15
3.	16317/16787	CAPE/TEN	JAT	Kanniyakumari	Shri Mata Vaishno Devi Katra (SVDK)	04-09-15
4.	16788	JAT	CAPE/TEN	Shri Mata Vaishno Devi Katra (SVDK)	Kanniyakumari	07-09-15
5.	16687/16787	MAQ/TEN	JAT	Mangalore Central	Shri Mata Vaishno Devi Katra (SVDK)	31-08-15
6.	16688/16788	JAT	MAQ/TEN	Shri Mata Vaishno Devi Katra (SVDK)	Mangalore Central	03-09-15
7.	12615	MAS	NDLS	Chennai Central	Delhi Sarai Rohillah (DEE)	10-12-15
8.	12616	NDLS	MAS	Delhi Sarai Rohillah (DEE)	Chennai Central	10-12-15
9.	14260	BSB	RMM	Manduadih (MUV)	Rameswaram	01-11-15
10.	14259	RMM	BSB	Rameswaram	Manduadih (MUV)	04-11-15
11.	12295	SBC	PNBE	Bangalore	Patliputra (PPTA)	01-01-16
12.	12296	PNBE	SBC	Patliputra (PPTA)	Bangalore	01-01-16
13.	12510	GHY	SBC	Guwahati	Bangalore Contonement (BNC)	03-01-16
14.	12509	SBC	GHY	Bangalore Contonement (BNC)	Guwahati	06-01-16
15.	12845	BBS	YPR	Bhubaneswar	Bangalore Contonement (BNC)	03-01-16
16.	12846	YPR	BBS	Bangalore Contonement (BNC)	Bhubaneswar	05-01-16
17.	18637	HTE	YPR	Hatia	Bangalore Contonement (BNC)	02-01-16
18.	18638	YPR	HTE	Bangalore Contonement (BNC)	Hatia	05-01-16

11. Revision of Train Numbers

Train Numbers have been revised for the following trains with effect from the dated mentioned against each.

S. No.	Train No.	From	To	Revised Train No.	w.e.f.
1	14259	RMM	BSB	15119	04-11-15
2	14260	BSB	RMM	15120	01-11-15
3	16788	JAT	TENLink Express	16790	(Train leaving on Thursday) 03-12-15
4	56851	Nagore	Tiruchchirappalli Pass.	76851	01-10-15
5	56852	Tiruchchirappalli	Nagore Pass.	76852	01-10-15
6	56712	Tiruchchirappalli	Nagore Pass.	76854	01-10-15
7	56713	Nagore	Tiruchchirappalli Pass.	76853	01-10-15
8	56805	Cuddalore	Tiruchchirappalli Pass.	76845	01-10-15
9	56806	Tiruchchirappalli	Cuddalore Pass.	76842	01-10-15
10	56807	Virudhachalam	Tiruchchirappalli Pass.	76845	01-10-15
11	56808	Tiruchchirappalli	Virudhachalam Pass.	76846	01-10-15
12	56833	Cuddalore	Virudhachalam Pass.	76843	01-10-15
13	56834	Virudhachalam	Cuddalore Pass.	76844	01-10-15
14	56835	Virudhachalam	Salem Pass.	76847	01-10-15
15	56836	Salem	Virudhachalam Pass.	76848	01-10-15
16	56837	Virudhachalam	Salem Pass.	76849	01-10-15
17	56838	Salem	Virudhachalam Pass.	76850	01-10-15
18	56729	Tiruchchirappalli	Rameswaram Pass.	56829	01-10-15
19	56730	Rameswaram	Tiruchchirappalli Pass.	56830	01-10-15
20	56847	Tiruchchirappalli	Palakkad Pass.	56713	01-10-15
21	56848	Palakkad Town	Tiruchchirappalli Fast Pass.	56712	01-10-15
22	56827	Tuticorin	Tirunelveli Pass.	56741	01-10-15
23	56828	Tirunelveli	Tuticorin Pass.	56742	01-10-15
24	56312	Tirunelveli	Nagercoil Pass.	56718	01-10-15
25	56321	Kanniyakumari	Tirunelveli Pass.	56717	01-10-15
26	56325	Nagercoil	Kanniyakumari Pass.	56719	01-10-15

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

	Broad Gauge				Metre Gauge			
	Target	2015-16	Target	2014-15	Target	2015-16	Target	2014-15
Mail/Exp.	95.0	88.6	95.0	92.5	-	-	-	-
Passenger	95.0	85.0	95.0	86.0	95.0	98.2	95.0	99.0
Suburban	95.5	72.5	95.5	77.7	-	-	-	-

	Broad Gauge (Mail/Exp.)	
	2015-16	2014-15
No. of trains run	97761	97456
No. of trains not losing	86608	90185
No. of trains losing	1153	7271
Percentage	88.6	92.5

13. VOLUME OF TRAFFIC HANDLED AND TRANSPORTATION OUT PUT.

(Figures in thousands)

Sl. No.	Description	2015-2016	2014-2015
(a)	No. Passenger Carried (System)..	854623	875132
(b)	Passenger Kms.	85395846	83730243
(c)	Passenger train Kms. *Excl. Deptl. (incl. MEMU, DEMU, EMU)	65713	64894
(d)	Total Coaching Vehicle Kms.	1995567	1963016
(e)	Total freight tonne Kms.	15590840	18428661
(f)	Goods train Kms. Excluding Departmental.	10107	11285
(g)	Total Wagon Kms. Excluding Dept. & Brake-van.	479555	531177
(h)	Total train Kms. (Excl. Deptl.) * (incl. Pass & Goods and also MEMU, DEMU, EMU).	75820	76179
(i)	Total Engine Kms.	78217	79563
(j)	Total Gross Tonne Kms. (incl. weight of Engine & Deptl.) and incl. coaching, goods EMU MEMU DEMU).	93942805	96765004

(*) 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.

14. OPERATING EFFICIENCY

The important efficiency statistics are given below :-

Sl. No.	Description	Broad Gauge		Metre Gauge	
		2015-16	2014-15	2015-16	2014-15
I	Wagon Kms. Per wagon day on line (in terms of eight wheelers)	203.37	184.05	0	0
II	Coaching vehicle Kms. Per Vehicle day :				
	(a) Passenger	583.03	655.2		34.92
	(b) Other Coaching	392.8	423.4	0	0
III	Percentage of loaded to total Wagon Kms.	59	59	0	0
IV	Speed of all Goods trains (Kms. Per hour)	28.8	27.4	0	0
V	Average starting wagon load (Tonnes)	61.6	61.8	0	0
VI	Loads of Goods trains (Tonnes)				
	(a) Net or freight load	1542	1631	0	0
	(b) Gross load (incl. Weight of engine)	2915	3001	0	0
	(c) Gross load (Excl. Weight of engine)	2729	2817	0	0
VII	Net tonne km. Per wagon day on line	7805	6377	0	0
VIII	Net tonne km. Per locomotive day in use	294355	175552	0	0
IX	Net tonne Km. per engine hour	16712	17250	0	0
X	Gross tonne Km. Per engine hour	78522	77121	0	0

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

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 :-

Sl. No	Tonnage Originating	2012-13	2013-14	2014-15	2015-16
1	Coal				
	(i) Coal for Railway use ..	0.00	0.00	0.00	0.00
	(ii) Coal for Steel Plant ..	2.06	0.67	2.23	0.79
	(iii) Coal for other use ..	18.12	22.84	17.86	17.93
	(iv) Total Coal ..	20.18	23.51	20.09	18.72
2	Raw materials for steel plants (Other than coal).	3.13	3.19	3.3	2.5
3	Finished products from steel plants.	0.00	0.00	0.00	0.00
4	Cement ..	2.83	3.21	2.7	1
5	Export Ores:				
	(i) Iron Ores ..	0.00	0.00	0.00	0.00
	(ii) Manganese Ore ..	0.00	0.00	0.00	0.00
6	Miscellaneous Goods :				
	(i) Railway Materials ..	0.26	0.35	0.32	0.17
	(ii) Foodgrains ..	1.50	2.01	1.48	1.31
	(iii) Mineral Oils ..	3.18	3.30	3.46	3.65
	(iv) Fertilizers ..	3.27	3.12	3.47	3.39
	(v) Other Goods ..	3.80	3.95	4.55	2.75
	(vi) Total Misc. Goods ..	12.01	12.73	13.28	11.27
7	Total All Traffic (Revenue & Non-Revenue) ..	38.15	42.64	39.37	33.49

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.	Description	Broad Gauge		Metre Gauge	
No.		2015-16	2014-15	2015-16	2014-15
(a)	No. of wagons owned (in terms of 8 wheelers)	9263	9301	0	0
(b)	Inter-change debit/credit balance	n/a	n/a	n/a	n/a
(c)	Average wagon holding (in terms of 8 wheelers)	6442	7904	0	0
(d)	No. of wagons loaded :				
	i. Originating	1408	1788	0	0
	ii. Transshipment	0	0	0	0
	iii. Repacked	0	0	0	0
	iv. Coaching traffic	0	0	0	0
	v. Total loading	1408	1788	0	0
(e)	No. of loaded wagons received daily from other Rlys.	1110	1292	0	0
(f)	Turn round of wagons (on line)	2.20	2.32	0	0

17. Wagons on Line

Gauge	2015-16	2014-15	% variation over previous year
Broad	9,488	9,536	-0.49
Metre	0	0	0.00
Total	9,488	9,536	- 0.49

Gauge	2015-16	2014-15	Percentage variation over previous year
Broad	6,442	7,904	-18.50
Metre	0	0	0.00

Gauge	2015-16	2014-15	Percentage variation over previous year
Broad	5,15,491	6,33,039	-18.57
Metre	0	0	0.00

		(Figures in millions)	
Particulars	2015-2016	2014-2015	
I. Coal			
(i) Coal for Railway Use ..	0	00	
(ii) Coal for Steel Plants ..	339.66	369.86	
(iii) Coal for Other Use ..	4,278.05	4,597.42	
(iv) Total Coal ..	4,617.71	4,967.28	
II. Raw Materials for Steel Plants (Other than Coal).	708.34	778.18	
III. Finished products from Steel Plants	625.82	721.37	
IV. Cement ..	1,892.08	2,804.97	
V. Export Ore			
(i) Iron Ore ..	0	0	
(ii) Manganese Ores ..	0	0	
VI. Miscellaneous Goods			
(i) Railway Material ..	17.2	40.55	
(ii) Foodgrains ..	3,534.05	4,084.31	
(iii) Mineral Oil ..	1,276.78	1,211.53	
(iv) Fertilizer ..	1,503.23	1,546.78	
(v) Other Goods ..	1,415.63	2,273.69	
(vi) Total Misc. Goods ..	7,746.89	9,156.86	
(vii) Total all traffic ..	15,590.84	18,428.66	

(Figures in thousands)

Particulars		Current Year 2015-16	Previous Year 2014-15	% variation over previous year
(a) Passenger				
B. G.	Steam ..	0	0	0.00
	Dsl.Elec. ..	32,062	30,273	-5.58
	Dsl. Hyd. ..	0	0	00
	Elec. ..	47,911	48,622	1.48
	Total ..	79,972	78,895	-1.35
M. G.	Steam ..	19	19	0.00
	Dsl. Elec. ..	55	55	0.00
	Dsl. Hyd. ..	0	0	0.00
	Elec. ..	0	0	0.00
	Total ..	74	74	0.00

(Figures in thousands)

Particulars	Current Year 2015-16	Previous Year 2014-15	% variation over previous year
(b) Goods			
B. G. Steam ..	0	0	0.00
Dsl. Elec. ..	7,553	9,191	21.69
Dsl. Hyd. ..	0	0	0.00
Elec. ..	20,573	20,399	-0.85
Total ..	28,126	29,590	5.21
M. G. Steam ..	0	0	0
Dsl. Elec. ..	0	0	0.00
Dsl. Hyd. ..	0	0	0
Elec. ..	0	0	0
Total ..	0	0	0.00
(c) Mixed			
B. G. Steam ..	0	0	0
Dsl. Elec. ..	0	0	0
Dsl. Hyd. ..	0	0	0
Elec. ..	0	0	0
Total ..	0	0	0
M. G. Steam ..	0	0	0
Dsl. Elec. ..	0	0	0
Dsl. Hyd. ..	0	0	0
Elec. ..	0	0	0
Total ..	0	0	0
(d) Total EKMs incl. Depl.			
B. G. Steam ..	0	0	0.00
Dsl. Elec. ..	46,219	45,750	-1.01
Dsl. Hyd. ..	15	86	473.33
Elec. ..	69,544	69,826	0.41
Total ..	1,15,778	1,15,662	-0.10
M. G. Steam ..	27	25	-7.41
Dsl. Elec. ..	61	59	-3.28
Dsl. Hyd. ..	0	0	0.00
Elec. ..	0	0	0.00
Total ..	88	84	-5.62

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

(a) Passenger Service			
B. G. Steam ..	0	0	0.00
Dsl. Elec. ..	547	542	-0.91
Dsl. Hyd. ..	0	0	0.00
Elec. ..	753	733	-2.66
Combined ..	@	@	..
M. G. Steam ..	29	29	0.00
Dsl. Elec. ..	47	47	0.00
Dsl. Hyd. ..	0	0	0.00
Elec. ..	0	0	0.00
Combined ..	@	@	..
(b) Goods Service			
B. G. Steam ..	0	0	0.00
Dsl. Elec. ..	264	291	10.23
Dsl. Hyd. ..	0	0	0.00
Elec. ..	440	401	-8.86
Combined ..	@	@	..
M. G. Steam ..	0	0	0.00
Dsl. Elec. ..	0	0	0.00
Dsl. Hyd. ..	0	0	0.00
Elec. ..	0	0	0.00
Combined ..	@	@	0.00

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

(Figures in thousands)

Particulars	Current Year 2015-16	Previous Year 2014-15	% variation over previous year
(a) Passenger			
B. G. Steam ..	0	0	0.00
Dsl. Elec. ..	361	355	1.69
Dsl. Hyd. ..	13	40	-67.50
Elec. ..	430	445	-3.37
Combined ..	@	@	..
M. G. Steam ..	9	6	50.00
Dsl. Elec. ..	34	33	3.03
Dsl. Hyd. ..	0	0	0.00
Elec. ..	0	0	0.00
Combined ..	@	@	..

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

20. PUNCTUALITY OF PASSENGER TRAINS

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

	Particulars	2015-16	2014-15
B.G.	Mail & Express	88.6	90.4
	Passenger	85.0	86.0
	Suburban (EMU)	73.2	77.4
M.G.	Mail & Express	0.0	0.0
	Passenger	98.4	99.0
	Suburban (EMU)	0.0	0.0

21. GOODS EARNINGS UNDER IMPORTANT HEADS DURING 2015-2016

		Tonnes Carried (in millions)		Earnings (in lakhs of ₹)	
Sl. No.	Particulars	2014-15	2015-16	2014-15	2015-16
	Revenue Earnings Traffic				
1.	Products of Agriculture	12.235	9.571	57,025.03	52,591.21
2.	Animals & Products of animals.	..	..	..	..
3.	Products of mines	28.985	24.524	1,14,963.35	1,11,517.56
4.	Mineral oil	4.525	4.651	25,059.04	26,916.53
5.	Products of Forests	0.289	0.146	1,133.47	625.95
6.	Manufactures	16.216	10.901	63,965.54	47,096
7.	Others	9.111	8.233	34,347.43	36,858
8.	Total Revenue Traffic				
	Excel Misc. Goods Earnings.	70.361	58.026	2,96,493.86	2,756
9.	Non-Revenue Traffic				
	Railway Coal				
	a. For home line	..	..	..	..
	b. For other Govt. Railways.	..	..	..	..
	c. Diesel oil booked by Companies for Rlys.	..	..	..	..
10.	General Stores & Materials for Railway.				
	a. For home line (1001+1004).	0.236	0.117	..	..
	b. For other Govt. Railways.	..	..	..	..
11.	Total Non-Revenue traffic.	0.236	0.117	..	..
12.	Grand Total	70.597	58.143	2,96,493.86	2,75,602

22. WATER SUPPLY

Sl. No.	Division	Name of Work	Estimate cost ₹ in lakhs.
I. Works completed			
a Works costing more than ₹ 5 lakhs each			
1.	MAS	ADEN/CGL Sub Division GLR @ all stations.	23.000
		MAS-GLR Section-Repair and Maintenance of water supply connections.	16.660
		NYP-Replacement of existing corroded CI tank with RCC OHT of 1 lakh litre capacity.	40.060
2.	SA	..	Nil
3.	PGT	..	Nil
4.	TVC	..	Nil
5.	TPJ	..	Nil
6.	MDU	..	Nil
7.	CE/CN/ERS	PUU-EDNGC work	17.50
8.	CE/CN/MS	..	Nil
9.	MTP	..	Nil
(b) Works costing less than ₹ 5 lakhs each			
1.	MAS	..	Nil
2.	SA	..	Nil
3.	PGT	..	Nil
4.	TVC	..	Nil
5.	TPJ	..	Nil
6.	MDU	..	Nil
7.	CE/CN/ERS	..	Nil
8.	CE/CN/MS	..	Nil
9.	MTP	..	Nil
II. Works in Progress			
(a) Works costing more than ₹ 5 lakhs each			
1.	MAS	MAS-GDR Section - ADEN/SPE Sub division - Repair and Maintenance of water supply arrangements and Auto Chlorinator plants.	27.314
2.	SA	..	Nil
3.	PGT	SRR-Improvements to water supply arrangements to station and PF at SRR.	132.59
		SRR-Provision of separate OHT with 2.25 lakh litre capacity.	93.43
		TR-Upgradation of Passenger and Facilities-Provision of water tank 90,000 liter capacity.	29.40
4.	TVC	Ernakulam coaching complex-Watering arrangements by laying 200mm dia pipe from Muelupuzha river near Piravam Road station.	895.00
		CGV, ETM, TRVL-Improvements to water supply arrangements.	24.00
		ALLP-Repairs to water hydrants.	9.33
5.	TPJ	SRPM-Replacement of cast iron pipe line (2001 m) & Ponnalai-Replacement of steel tank by reinforced concrete cement tank (id417/03.4 CE/OL).	249.43
		SRPM - Improvement of sedimentation tank at SRPM.	5.00

Sl. No.	Division	Name of Work	Estimate cost ₹ in lakhs.
II. Works in Progress			
(a) Works costing more than ₹ 5 lakhs each			
5.	TPJ	SRPM-Renewal of corroded main steel pipe line 375 mm dia with 400 mm dia ductise iron pipe for residual length of 2100 metres long.	225.38
6.	MDU	MDU Jn.-Construction of RCC overhead tank 90,000 litres capacity and GLR -1 No. with pumping arrangements.	51.77
7.	CE/CN/ERS	..	Nil
8.	CE/CN/MS	..	Nil
9.	MTP	..	Nil
(b) Works costing less than ₹ 5 lakhs each			
1.	MAS	..	Nil
2.	SA	..	Nil
3.	PGT	..	Nil
4.	TVC	..	Nil
5.	TPJ	..	Nil
6.	MDU	..	Nil
7.	CE/CN/ERS	..	Nil
8.	CE/CN/MS	..	Nil
9.	MTP	..	Nil

23. ACTION TAKEN TO MAINTAIN CLEANLINESS AT STATION PREMISES.**A1, A & B Category stations : Medical Department—76 Stations.**

Comprehensive cleaning contracts, inclusive of mechanized cleaning of stations/tracks, rag picking and garbage disposals have been awarded at 71 A1, A & B Category stations by Medical Department.

'C' Category stations: Commercial Department—75 Stations.

Cleaning contracts exist at 30 stations. Tenders will be floated shortly at 45 stations. Cleaning activity at remaining stations is managed presently with imprest cash provided exclusively for this purpose.

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

The cleaning activity at 'D, E & F' category stations is being carried out duly utilizing the imprest cash given exclusively for this purpose to SM's in 'D' and 'E' category and by halt agents in 'F' category stations.

As per instructions contained in Commercial Circular No.47 of 2014 Divisions have also been instructed to consider the option of outsourcing the cleaning work of D and E category stations in addition to the existing arrangement at D and E category stations.

24. SPECIFIC FUEL CONSUMPTION

Specific Fuel Consumption—Brief Remarks for the variation—Period : April 2015 to March 2016 compared with April 2014 to March 2015.

Service	Apr. 14 to Mar. 15	Apr. 15 to Mar. 16	Variation	Remarks
Broad Gauge Steam Traction	No service			

METRE GAUGE—STEAM TRACTION

Pass. and Prop. of Mixed.	0.0	0.0	0.0	At present the steam locos operated by using coal are utilised for departmental service only. and periodical steam pressure test.
Goods and Prop. of Mixed	No Service	No Service	No Service	

DIESEL TRACTION—BROAD GAUGE

Pass. and prop of Mixed. GTKM	4.19	4.16	(-) 0.03	GM/ST is not up date the other zones GTKM Correctly.
Goods and prop. of Mixed.	2.18	2.43	(-) 0.25	GM/ST is not up date the other zones GTKM Correctly and Reduced in Audited GTKM.

DIESEL TRACTION—METRE GAUGE

Pass. and prop of Mixed.	29.38	28.86	(-) 0.52	NM Railway Heritage Passenger Services only.
Goods and prop. mixed.	Nil	Nil	Nil	

—MG Diesel closed on 19-10-2012 Except N.M. Railway.

15. STATEMENT No. 26(a)

SHED WISE AND FIELD WISE COAL SUPPLIED (IN TONNES) FOR 2015-2016

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

NO NEW PURCHASE OF COAL FOR THE YEAR 2015-2016

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

Kind of Coal	Loco-Purposes		Non-Loco Purposes		Total	
	Apr.-14 to Mar-15	Apr.-15 to Mar-16	Apr.-14 to Mar-15	Apr.-15 to Mar-16	Apr.-14 to Mar-15	Apr.-15 to Mar-16
Grade "A"	32	12	—	—	32	12
Grade "B"	0	0	—	—	0	0
Grade "C"	—	—	—	—	—	—
Grade "D"	—	—	—	—	—	—
Non Graded	—	—	—	—	—	—
Wood (in terms of Coal)	—	—	—	—	—	—
Salvage	—	—	—	—	—	—
Coke (in terms of Coal)	—	—	163	49	163	49
Total	32	12	163	49	195	61

25. FUELECONOMY CAMPAIGN

Action by Diesel Sheds

- Identifying locos of high SFC (during load box test) and taking immediate action to reduce the fuel consumption.
- Introduces the REMLOT and APU in the locos to monitor the detentions in the enroute more than thirty minutes and to shut down the locos.

General

- Introduction of DEMUs in place of conventional rakes where ever load is less.

- Monitoring of CTRs and shunting vouchers dispatch from crew booking points to GM/ST for correct account of Service wise performance and shunting.
- Precise allocation and accountal of fuel issues to different services e.g. Passenger, goods, department and shunting etc.
- Upgrading the fuel module in computer for correct accountal.

Action by Division

- Periodical checking of fuel installations for quality and accountability.
- Shutting down of diesel locos when detained for more than 30 minutes and ensured by divisional Power Control.
- Identifying Loco Pilots consuming more fuel than normal and their intensive Monitoring by Loco Inspectors.
- Loco pilots to be categorized based on fuel efficiency/driving efficiency and loco pilots who are Poor on both to be sent for training on simulators at DTTC/GOC.
- Rear loco should be switched off when it is not required to haul the train, the detention more than thirty minutes and to shut down the locos.

25. INPUT/OUTPUT RATIO

Particulars	2014-2015	2013-2014	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.	417.1	452.4	-7.79
(ii) Wagon holdings in terms of 8-wheelers.	6442	7904	-18.50
(iii) Additional capital investments on line capacity & terminal capacity (₹ in lakhs).	N/A	N/A	N/A
2. OUTPUT			
(i) GTKMs. incl. Wt. of Engines (in lakhs) on ownership basis as per train documents Goods & prop. of mixed.	5,56,644	6,015.33	-7.46
(ii) NTKMs (in lakhs) on ownership basis as per train documents Goods & prop. of mixed.	3,06,038	3,234.89	-5.39
(iii) Average daily loading incl. Transshipment at BG, MG & NG (Revenue & Non-Revenue).	1,408	1,788	-21.25
Average daily loaded receipts.	1,110	1,292	-14.09
Total loading and loaded receipts.	2,518	3,080	-18.25
AVERAGE			
Wagon Kms. Per wagon day on line.			
BROAD GAUGE	203.4	184.05	10.50
METRE GAUGE	0.00	0.00	0.00

NOTE : 2 OUTPUT Columns (I) & (II) Provisional Figures

VI. वाणिज्य/COMMERCIAL

1. Revision of Passenger Fares :

i. Based on the commercial Circular No.32 of 2015 dated 26.05.2015, the Advance rates notification for Rate Advice No.05 of 2015 (coaching No.22 /2015) has been issued. With effect from 01.06.2015 the service tax of 14% has been charged on 30% passenger fare equivalent to 4.02% of the total fare in first class and AC classes.

ii. Based on the commercial Circular No.68 of 2015 dated 13.11.2015, the advance rates notification for Rate Advice No.11 of 2015 (coaching No.51/2015) has been issued. With effect from 15.11.2015 the service tax of 14% and Swatch Bharath Cess of 05.% are chargeable on 30% of passenger fare equivalent to 4.35% of the total fare in first class and AC classes.

iii. Based on the commercial Circular No.69 of 2015 dated 18.11.2015, the Advance rates notification for Rate Advice No.11 of 2015 (coaching No.57/2015) has been issued. With effect from 22.11.2015 the minimum chargeable passenger fare of second class (non-suburban) has been revised from Rs.5/- to Rs.10/-. There is no change in the season ticket and suburban fares.

Para 2: Concession in fares:

Sub: Concession based ticketing including online ticketing for the physically challenged persons using Photo Identity Card issued by the Railways- clarification regarding allotment of unique ID card number.

Based on the commercial Circular No.18 of 2015 dated 26.05.2015, the Advance rates notification for Rate Advice No.4 of 2015 (Coaching No.12/2015) has been issued Board has decided to launch this scheme to enable the physically challenged persons to book concessional reserved tickets across PRS counters, e-ticket/i-ticket through IRCTC website and also concessional unreserved tickets across the UTS counters throughout the country on the authority of Photo Identity Card (which will be uniquely numbered) to be issued by the railways. The detailed procedure to be followed for implementation of the Scheme along with a specimen of the Photo Identity Card are enclosed.

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 from 1st April 2013 still continues to remain unchanged.

Busy Season Surcharge :

Busy season surcharge at the rates mentioned in the table below has been levied from 1st April 2013 and will remain in force till further advice.

Sl. No.	Commodities	Rate
1	All commodities	15%
2	Container Traffic	Nil
3	Automobile Traffic moved in NMH, BCACM, BCCNR & BCACBM Wagons.	Nil

With effect from 17th April 2014 Board have revised the Busy Season for the financial year 2014-15 and levied 15% Busy season surcharge on the following commodities as under which continues to remain in force until further advise.

Sl. No.	Seasons	Commodities
1	Busy season - 1st July to 31st March	(i) Coal Tar (ii) Coal Tar pitch (iii) Furnace Oil (iv) Light Diesel Oil
2	Lean season - 1st April to 30 th June	(v) Carbon Black feed Stock

Congestion Surcharge :

The 20% Congestion Surcharge on freight charges mentioned in the table below has been levied w.e.f. 01.04.2011. Now the congestion Charges for the traffic booked to Bangladesh only has been enhanced from 20% to 25%. With effect from 19.07.2015.

S.No.	COMMODITIES	RATE OF CONGESTION SURCHARGE	ENHANCED RATE W.E.F 19-07-15
1	All traffic to Bangladesh	20%	25%
2	All traffic to Pakistan	20%	No change.

With effect from 24-11-2014 Congestion Surcharge of 10% on Base Freight Rate is levied on all goods traffic including containers originating from Ports and will continue to remain in force up to the financial year 2015-16.

Classification of Commodities :

(a) The Iron-ore consignment classified at class 180 has been revised to Class 165 w.e.f. 01-04-15.

(b) The Chemical Manures included in the Fertilizers Control order issued by the Ministry of Agriculture and Rural Development will be treated as "Chemical Manures NOC" w.e.f. 15-07-15.

(c) The Distance Based Charge (DBC) as the booking of Iron Ore traffic meant for other than domestic consumption for Manufacture of Iron & Steel and cement has been revised as under w.e.f. 08-09-15 and was remain in force up to 31-03-16.

DISTANCE IN KMS	DISTANCE BASED CHARGE
0 – 200	Rs. 300
201 – 300	Rs. 300
301 – 400	Rs. 300
401 – 500	Rs. 300
501 – 600	Rs. 300
601 – 700	Rs. 300
700 and above	Rs. 300

E – DEMAND REGISTRATION

Railway Board have introduced Registration of Demand for wagons electronically through e-RD on FOIS through web portal with effect from 01-07-2014 Over this Railway about 90 percent demand for wagon are registered through e-RD.

Wagon Registration Fee :

Wagon Registration Fee to be deposited at the time of registration for indents of different type of wagons effect from 20-05-2014 are as under which continues to remain in force until further advise.

Gauge	Per Wagon	Per Rake
BG	Rs. 1500	Rs. 50,000
MG	Rs. 1500	Rs.50,000
NG	Rs.1500	Rs.1500x No. of Wagons in a rake.

SERVICE TAX ;-**Issue of Service Tax Certificate for Transportation of Goods by Rail (STTG Certificate).**

Modifications in issuing STTG Certificates to the Customer during the period 01.04.2015 to 31.03.2016 are appended below:

(1) Service Tax Certificate for Transportation of Goods by Rail (STTG Certificate) are issued on receipt of written request from the Customer (within 30 days).

- (i) The rate of Service Tax has been increased from 12% to 14% (including Cesses) with effect from 01.06.2015.
- (ii) Service Tax of 14% is chargeable on 30% of freight (equivalent to 4.2% on the total freight).
- (iii) The education Cess of 2% on Service Tax and Higher Education Cess of 1% on Service Tax were cancelled. **The total service Tax implication is 4.2% of the total freight.**

(2) In case of any refund of Demurrage/Warfare charge on waiver, the corresponding service tax, if collected shall be refunded.

(3) The **TIN No.** (of the customer) is replaced with the **SERVICE TAX REGISTRATION No.** (of the customer) in the proforma of the STTG Certificate.

(4) Levy of Swatchch Bharat Cess @ 0.5% on all taxable services came into force from 15.11.2015. **The total service Tax implication is 4.35% of the total freight.**

- (2) **Concession in rates for other coaching Traffic** Nil
- (3) **Fairs and Meals** Nil

4. Rebate on Export Traffic :

The scheme was not in force in 2015-2016.

5. Introduction of Freight Incentive Schemes :

The following Freight Incentive Schemes are inforce from 25th June 2015 :—

a. Automatic Freight Rebate Scheme for traffic loaded in Traditional Empty Flow Directions.

b. Incentive Scheme for Freight Forwarders.

Automatic Freight Rebate Scheme For Traffic Loaded in Traditional Empty Flow Direction

Board with the objective of gener additional revenue by a suitable pricing mechanism, introduced the scheme whereby automatic rebate from the computerized FOIS system will become available to customers offering traffic in inter-zonal/intra-zonal empty flow direction.

Incentive Scheme for Freight Forwarders

The scheme aims to facilitate cargo aggregation and thereby expand the commodity basket on Railways.

6 Refunds on Goods Traffic

Sl. No.	Description	April to March	
		2014-15	2015-16
1	Number of cases carried for from previous year.	4623	4,712
2	No. of cases received/re-opened during the year.	7,225	10,847
3	Number of cases disposed during the year.	2,269	6,254
4	Number of cases on hand at the end of the year and carried forward to next year.	4,956	4,593
5	Number of cases outstanding below 3 months.	172	67
6	Number of cases outstanding for over 6 months.	4,784	4,645
7	Average time taken to settle	24.30	25.32

Registration of refund claims during April 2015 to March 2016 is 10,847 as against 7,225 during April 2014 to March 2015.

The Number of refund cases pending at the end of March, 2016 is 4593 as against 4956 at the end of March, 2015.

The Number of cases pending below 3 months is 67 at the end of March 2016 as against 172 at the end of March, 2015.

The Number of cases pending over 3 months is 4645 at the end of March, 2016 as against 4784 at the end of March, 2015.

The pending cases are being closely monitored and persistent efforts are being taken for early disposal of pending cases, special attention is bestowed for clearing more than 3 months cases to bring down the outstanding pending cases.

After getting a reply from the Board on clarification sought for from this Railway a bulk of 4250 (FIS) cases of M/s. Dalmia and India Cements will be cleared.

7. (a) CLAIMS REGISTRATION

Year	Parcels	Goods	Total
2015-16	212	294	506
2014-15	188	295	483

7. (b) Claims Performance

Details	2015-16	2014-15
Opening Balance ..	71	89
Registration ..	506	483
Re-opened ..	50	75
Total ..	627	647
No. of cases paid ..	67	101
No. of cases repudiated ..	471	475
Total Disposal ..	538	576
Closing Balance ..	89	71
Amount paid (Excl. court cases)	4.82	4.78
Amount paid in court cases ..	0.05	3.27
Total amount paid (in Lakhs) ..	4.87	8.05
Average time for disposal ..	78 days	62 days

7. (c) CAUSE-WISE ANALYSIS OF CLAIMS PAID :

Claims paid on Account of	Year	Number	Amount Rs. in lakhs)
Complete loss ..	2015-16	60	4.20
..	2014-15	101	4.78
Theft of complete packages ..	2015-16	0	0
..	2014-15	0	0
Pilferages ..	2015-16	1	0.48
..	2014-15	0	0
Damage by wet ..	2015-16	0	0
..	2014-15	0	0
Delay in transit ..	2015-16	6	0.14
..	2014-15	0	0
Breakage ..	2015-16	0	0
..	2014-15	0	0
Leakage ..	2015-16	-	-
..	2014-15	01	0.0
Others ..	2015-16		
..	2014-15		
Total ..	2015-16	67	4.82
..	2014-15	101	4.78

7. (d) COMMODITY WISE ANALYSIS OF CLAIM PAID

Claims paid on Account of	Year	Number	Amount Rs. in lakhs)
(a) Grains & Pulses ..	2015-16	0	0
..	2014-15	0	0
(b) Iron & Steel ..	2015-16	0	0
..	2014-15	0	0
(c) Cotton piece goods ..	2015-16	3	0.07
..	2014-15	5	0.19
(d) Chemicals & Manure ..	2015-16	0	0
..	2014-15	0	0
(e) Coal & Coke ..	2015-16	0	0
..	2014-15	0	0
(f) P. O. L. ..	2015-16	0	0
..	2014-15	1	0.29
(g) Others ..	2015-16	64	4.75
..	2013-14	95	4.30
(h) Total ..	2015-16	67	4.82
..	2014-15	101	4.78

7. (e) COURT CASES DISPOSAL (EXCLUDING ACCIDENT CASES)

Details	2015-16	2014-15	% Variation
Opening Balance ..	234	261	-10%
Registration ..	77	85	-9%
Transferred cases ..	..	..	..
Total ..	311	346	-10%
Settled out of court ..	..	..	..
Decreed ..	28	31	-10%
Dismissed ..	17	71	-76%
Others ..	02	10	-80%
Total ..	47	112	-58%
Closing Balance ..	264	234	+13%

7. (f) COURT CASES TREND (BENCHWISE, EXCLUDING ACCIDENT CASES) DURING 2015-16

RCT	Opening Balance	Regis-traction	Total	Disposal	Closing Balance
RCT/MAS	02	..	02	01	01
RCT/ERS	01	01	02	01	01
Other Railway RCT Cases	62	02	64	02	62
Civil Suits	..	..	..	..	-
Consumer Forum cases	147	73	220	42	178
Appeal cases in High Courts & Supreme Court	22	01	23	01	22
Total	234	77	311	47	264

7. (g) ACCIDENT CASES (SECTION 124) DURING THE YEAR 2015-16

RCT	Opening Balance	Regis-traction	Total	Disposal	Closing Balance
RCT/MAS		04	04	01	03
RCT/ERS		04	04	03	01
Other Railways RCT Cases	01	..	01	..	01
Appeal cases in High Courts	06	..	06	..	06
Total	07	08	15	04	11

7. (H) ACCIDENT CASES (SECTION 124-A) DURING THE YEAR 2015-16

RCT	Opening Balance	Regis-traction	Total	Disposal	Closing Balance
RCT/MAS	333	155	488	324	164
RCT/ERS	104	82	186	80	106
Other Railways RCT Cases	85	11	96	11	85
Appeal cases in High Courts	196	19	215	10	205
Total	718	267	985	425	560

(I) P. S. Us. (2015-16)

RCT's	Opening Balance	Regis-traction	Total	Disposal	Closing Balance
RCT/MAS	..	..	..	..	..
RCT/ERS	..	..	..	..	..
Other Railways RCT Cases	04	01	05	..	05
Appeal cases in High Courts & S/C	05	..	05	01	04
Total	09	01	10	01	09

(J) CAUSE -WISE AND COMMODITY WISE ANALYSIS OF CLAIMS PAID IN COURT DURING 2015-16

Cause	Commodity	Amount in Rs.
Non-Delivery	Hardwares	5,677/-

(K) COMPUTERIZATION IN WEB ENABLED COACHING REFUNDS SYSTEM.

A project was sanctioned for computerization of Coaching Refund Offices over Indian Railways vide Railway Board Letter No.TC/2003/ 2010/Comp. Project, dated 03.02.2014, wherein CRIS/NDLS has developed a web based coaching refund system which is to be commissioned over Indian Railway.

In this connection CCM has accorded sanction for functioning of the Web Enabled Coaching Refund System at Chief Claims Office, Chennai and Claims Office/TPJ.

Computer Section had co-ordinated with CMC Engineers for Installation of hardware and structured LAN cabling as centralized location in computer cell of chief claims office and Traffic Accounts Office in 10th floor, MMC and also had procured computer furniture for Web Enabled Coaching Refund System. Work in Web Enabled Coaching Refunds System commenced from 03.08.2015. Details of hardware's are furnished as under.

1. Ten Nos. of Thin Clients and Four Nos. of Printers in Computer Cell for Web Enabled Coaching Refunds System.
2. One Thin Client in Sr.Commercial Manager's Chamber.
3. One Thin Client and Printer in CCI Coaching Refunds Cell.
4. Two Thin Clients and One Printer in Traffic Accounts

7. CLAIMS PREVENTION – PREVENTIVE MEASURES :**7(a) N. R. Cell**

During 2015-16 total of 171 wagons load consignments were disposed off by the NR Cell averting claims to the tune of Rs. 2015 Lakhs. 530 Parcel Consignments were also disposed off during the same period saving an amount of Rs. 56.045 Lakhs.

The performance of NR Cell during the year 2015-16 compared to the corresponding period of the previous year is furnished below :

Details	Wagon Loads		Parcels	
	2015-16	2014-15	2015-16	2014-15
Opening Balance	13	25	25	05
Registration	172	156	521	550
Total	185	181	546	555
Disposal	171	168	530	530
Closing Balance	14	13	16	25
Amount saved (Rs. in lakhs)	2015	2970.7	56.045	137.11

7(b) C. P. Checks :

During the year 2015-16, 5 Claim Prevention Checks were conducted at Parcel Offices, Goods Sheds and in Major Stations over Souther Railway. In addition 18 On Board Amenity and Catering checks and special cleanliness drive at Station were also conducted in several trains by officers.

8. LOST PROPERTY OFFICE**8. (a) Position of unconnected/undelivered parcels :**

Details	2015-16	2014-15
Opening Balance	899	511
Registration	794	1118
Total	1693	1629
Disposal	1128	730
Closing Balance	565	899

8. (b) Auction at lost property offices – 2015-16

LPO	Opening Balance	Regis-traction	No. of Auctions conducted	No. of disposed through Auction	Amount realised ₹
MAS	698	380	12	727	7,22,469
ED	05	81	03	82	87,207
CBE	18	50	07	46	60,164
CLT	24	85	06	84	1,89,295
ERS	36	30	03	43	80,166
TVC	12	65	05	63	1,63,298
QLN	04	16	01	08	6,935
MDU	48	44	01	32	97,420
TPJ	54	43	02	43	55,889
Total	899	794	40	1128	14,62,843

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9. REFUND ON PASSENGER TICKETS AND OTHER COACHING (PARCEL) TRAFFIC

SOUTHERN RAILWAY-COMMERCIAL BRANCH

TABULATED STATEMENT SHOWING THE COMPARATIVE DETAILS OF REFUND CLAIMS DEALT WITH IN THE REFUND OFFICES OVER SOUTHERN RAILWAY (FOR THE YEAR 2014-2015 & 2015-2016).

2014-2015										2015-2016										Percentage variation as compared to previous year	
Month & Year	Opening Balance	Receipt	Re-opened	Total for disposal	Disposed off	Closing Balance	% cleared as compared to Receipt	Average Time	Amount Refunded (₹)	Month & Year	Opening Balance	Receipt	Re-opened	Total for disposal	Disposed off	Closing Balance	% cleared as compared to Receipt	Average Time	Amount Refunded (₹)	Receipt	Disposal
Apr'14	3761	8201	82	12044	7586	4458	93%	35	2140632	Apr'15	6342	8247	635	15224	8872	6352	108%	31	2433938	0.6%	17.0%
May'14	4458	10733	72	15263	10454	4809	97%	34	2772215	May'15	6352	10922	569	17843	9976	7867	91%	27	2825624	1.8%	-4.6%
Cum		18934	154		18040		95%		4912847	Cum		19169	1204		18848		98%		5259562	1.2%	4.5%
Jun'14	4809	7679	29	12517	9155	3362	119%	26	3159815	Jun'15	7867	11073	384	19324	10190	9134	92%	31	3599093	44.2%	11.3%
Cum		26613	183		27195		102%		8072662	Cum		30242	1588		29038		96%		8858655	13.6%	6.8%
Jul'14	3362	10176	94	13632	8839	4793	87%	29	2306037	Jul'15	9134	6304	149	15587	10660	4927	169%	27	5345840	-38.1%	20.6%
Cum		36789	277		36034		98%		10378699	Cum		36546	1737		39698		109%		14204495	-0.7%	10.2%
Aug'14	4793	8170	121	13084	9385	3699	115%	30	2655116	Aug'15	4927	12506	0	17433	7342	10091	59%	48	2876241	53.1%	-21.8%
Cum		44959	398		45419		101%		13033815	Cum		49052	1737		47040		96%		17080736	9.1%	3.6%
Sep'14	3699	8179	293	12171	9408	2763	115%	16	3092345	Sep'15	10091	8792	12	18895	4005	14890	46%	40	148917	7.5%	-57.4%
Cum		53138	691		54827		103%		16126160	Cum		57844	1749		51045		88%		17229653	8.9%	-6.9%
Oct'14	2763	11057	323	14143	9914	4229	90%	15	2930343	Oct'15	14890	8689	16	23595	6495	17100	75%	45	124649	-21.4%	-34.5%
Cum		64195	1014		64741		101%		19056503	Cum		66533	1765		57540		86%		17354302	3.6%	-11.1%
Nov'14	4229	7791	523	12543	8956	3587	115%	18	3633299	Nov'15	17100	10437	1	27538	5930	21608	57%	45	302136	34.0%	-33.8%
Cum		71986	1537		73697		102%		22689802	Cum		76970	1766		63470		82%		17656438	6.9%	-13.9%
Dec'14	3587	8413	953	12953	8842	4111	105%	17	1026742	Dec'15	21608	9953	0	31561	5351	26210	54%	40	661426	18.3%	-39.5%
Cum		80399	2490		82539		103%		23716544	Cum		86923	1766		68821		79%		18317864	8.1%	-16.6%
Jan'15	4111	11262	1168	16541	11584	4957	103%	25	4034716	Jan'16	26210	6181	0	32391	11994	20397	194%	55	429656	-45.1%	3.5%
Cum		91661	3658		94123		103%		27751260	Cum		93104	1766		80815		87%		18747520	1.6%	-14.1%
Feb'15	4957	12073	1278	18308	10875	7433	90%	20	2770241	Feb'16	20397	6169	2	26568	7259	19309	118%		534629	-48.9%	-33.3%
Cum		103734	4936		104998		101%		30521501	Cum		99273	1768		88074		89%		19282149	-4.3%	-16.1%
Mar'15	7433	8418	441	16292	9950	6342	118%	27	3017803	Mar'16	19309	5921	6	25236	8057	17179	136%	84	266786	-29.7%	-19.0%
Cum		112152	5377		114948		102%		33539304	Cum		105194	1774		96131		91%		19548935	-6.2%	-16.4%

10. Ticket Less Travel

The comparative statistics of ticketless travel are given below :

YEAR	NUMBER OF CASES (In figures)			AMOUNT REALISED (In ₹)		
	Without ticket	Irregular ticket	Total	Without ticket	Irregular ticket	Total
2014-15	4,61,023	5,47,312	10,08,335	18,37,36,422	23,61,39,267	41,98,75,689
2015-16	4,56,003	3,95,277	8,51,280	17,66,60,173	17,69,29,769	35,35,89,942

11. THE DETAILS OF TICKET CHECKING PERFORMANCE FOR THE YEAR 2015-16:-

The cases of Without/irregular travel/Unbooked/Luggage detected, excess charges recovered and cases dealt with the Court during 2015-16 are as under :-

in ₹

1. No. of Passengers found travelling without ticket	4,56,003
2. No. of Passengers found travelling with irregular ticket	3,95,277
3. No. of cases unbooked booked luggage	78,178
4. Total No. of cases from (1), (2) & (3)	9,29,458
5. Total Penalty Earnings from (1), (2) & (3)	37,11,79,703

in ₹

6. Gross Ticket Checking Earnings including Non-Penalty Earnings.	75,94,50,803
7. No. of passengers prosecuted	38,104
8. No. of Passengers imprisoned	33
9. No. of Passengers fined	38,044
10. No. of Passengers let off	27
11. Amount of judicial Fine realised	1,00,40,655
12. No. of Mendicants ejected	16,091
13. Total cost incurred on Ticket Checking Staff	1,43,66,10,181

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List of Train Halts as on 31.03.2016 (Division wise)																	
CHENNAI DIVISION			TIRUCHCHIRAPPALLI DIVISION			PALGHAT DIVISION			MADURAI DIVISION			SALEM DIVISION			TRIVANDRUM DIVISION		
Sl.No.	Name of Halt	CODE	Sl.No.	Name of Halt	CODE	Sl.No.	Name of Halt	CODE	Sl.No.	Name of Halt	CODE	Sl.No.	Name of Halt	CODE	Sl.No.	Name of Halt	CODE
1	Acharapakkam	ACK	1	Adichchanur	CAN	1	Anamalai Road	ANM	1	Alwarkurichchi	AZK	1	Ayodhyapattinam	APN	1	Akathumari	AMY
2	Akkampet	AKAT	2	Adiyakamangalam	AYM	2	Chandera	CDRA	2	Chanthanathope	CTPE	2	Irugur	IGU	2	Amaravila	AMVA
3	Annanur	ANNR	3	Ammanur	AMNR	3	Chemancheri	CMC	3	Edapalayam	EDP	3	Jiyapuram	JPM	3	Aroor	AROR
4	Attipattu Pudunagar	AIPP	4	Andanampallam	AND	4	Cherukara	CQA	4	Kalthuruthi	KTHY	4	Kunnathur	KNNT	4	Dhanuvachipuram	DAVM
5	Egattur	EGTR	5	Andanapettai	APE	5	Chirakkal	CQL	5	Karaikurichi	KARK	5	Kuttakudi	KKTI	5	Divine Nagar	DINR
6	Hindu College	HC	6	Ayandur	AYD	6	Dharmadam	DMD	6	Karupatti	KYR	6	Laddivadi	LDVD	6	Ezhpunna	EZP
7	Ichchiputtur	IFT	7	Ichchangadu	ICGH	7	Iringal	IGL	7	Kizhambur	KIB	7	Marudur	MUQ	7	Iravipuram	IRP
8	Kanchipuram East	CJE	8	Koyilvenni	KYV	8	Kalanad	KLAD	8	Kundara East	KFV	8	Mekkudi	MKY	8	Kaduturuti	KDTY
9	Maraimalainagar Kamarajar	MMNK	9	Kuthur	KOQ	9	Kodumunda	KODN	9	Kuri	KURI	9	Melnariappanur	MLYR	9	Kalavur	KAVR
10	Melalathur	MEH	10	Madimangalam	MCL	10	Kulukalur	KZC	10	Madathukulam	MDKM	10	Perianayan-kanpalayam	PKM	10	Kappil	KFI
11	Mosur	MSU	11	Malliam	MY	11	Mellattur	MLTR	11	Mandapam Camp	MC	11	Puduchatram	PCTM	11	Karuvatta	KVTA
12	Nandiambakkam	NPKM	12	Manali	MNLI	12	Mukkali	MUKE	12	Nagamalai West	NWH	12	Singanallur	SHI	12	Koratti Angadi	KRAN
13	Nathapettai	NTT	13	Manganallur	MXN	13	Nadhapuram Road	NAU	13	Namana-samudram	NMN	13	Siruvathur	SRVT	13	Kulithurai West	KZTW
14	Nemilicherry	NEC	14	Mangudi	MAX	14	Palappuram	PLPM	14	Narthamalai	NTM	14	Thalaivasal	TVS	14	Kumaranallur	KFQ
15	Padalam	PTM	15	Mariamankoil	MAV	15	Pattikadu	PKQ	15	Rajagambiram	RAGM	15	Thimmachipuram	TIC	15	Kurikad	KFE
16	Palayasivaram	PYV	16	Mepuliyur	MPLY	16	Perashshannur	PEU	16	Tutimelur	TME	16	Thongannur	TNGR	16	Melapalayam	MP
17	Paranur	PWU	17	Mugaiyur	MUY	17	Todiyapulam	TDPM	17	Vadapalanji	VAJ	17	Valappadi Gate	VEG	17	Mullurkarai	MUC
18	Potherai	POTI	18	Onnupuram	OPN	18	Tokuttu	TKOT	18	Valantharavai	VTV	18	Vangal	VNGL	18	Munrothuruthu	MQO
19	Puliamangalam	PLMG	19	Ottankadu	TGT	19	Tuvvur	TUV	19	Viravanallur	VVR				19	Nagercoil Town	NJT
20	Puttur	PTLR	20	Pennathur	PNTR	20	Vadakannigapuram	VDK							20	Nellayi	NYI
21	Reddipalayam	RDY	21	Pichandarkoil	BXS	21	Vadanamkurushshi	VDKS							21	Palliyadi	PAY
22	Royapuram	RPM	22	Sedarampattu	SDPT	22	Vallapuzha	VPZ							22	Perunkuzhi	PGZ
23	Senjipnampakkam	SPAM	23	Teli	TEI	23	Vellarkad	VEK							23	Punnappa	PNPR
24	Takkolam	TKO	24	Tirumalairajan Pattinam	TMPT	24	Vellayil	VLL							24	Takazhi	TZHI
25	Tirumullaivayil	TMVL	25	Tondamanpatti	TOM										25	Tirunettur	TNU
26	Urapakkam	UPM	26	Uttamarkoil	UKV										26	Tiruvizha	TRVZ
27	Venketanarasimha rajuvaripettah	VKZ	27	Valaramanickam	VMM										27	Tovalai	THX
28	Villimbakkam	VB	28	Valavanur	VRA										28	Tumboli	TMPY
29	VOC Nagar	VOC	29	Vallampadugai	VMP										29	Vayalar	VAY
30	Vrinjipuram	VJ	30	Vellipalayam	VXM										30	Veli	VE
			31	Vellore Town	VT										31	Viranialur	VRLR
			32	Vellur	VER												
			33	Villiyannur	VI												

* Opened on 19-6-2015

Suchinram closed on 8-5-2015

LIST OF OUT AGENCY/CITY BOOKING AGENCIES				
Sl. No.	Division	Name of Out Agency/CBA	Location	Serving Railway Station
1	Chennai		NIL	
2	Madurai		NIL	
3	Trivandrum		NIL	
4	Palakkad		NIL	
1	Salem	Rasipuram RPOA *	M/s Om Sakthi Agency/19-1 Kanniah Naidu Street, Rasipuram 637408, Namakkal Dist.	SA
2	Salem	Paramthivelur RLRU	M/s Ramesh Sangam Travels, 192 Bus stand, Paramathivelur 638 182 Namakkal (Dt)	Pugalur
3	Salem	Gobichetti palayam GPM	Smt. Punithavathy, 30, Chinnamuthu Mani Street, E.K. Valasu, Erode-638 011.	Erode
1	Trichy	Thirunallaru Town Booking Office	Thirunallaru Temple premises Mayaduthurai Jn.	
2	Palakkad	MAQ TBO	Golden Chamber Building, Shop No. 2, M.T. Road, Bunder, Managalore.	MAQ
3	Palakkad	CLT CTBO	KHK Building, Annie Hall Road, Calicut-673002.	CLT

* Closed on 18-2-16

I.No.	Out agency	Station	Date of closing
1	Rasipuram O/A	Salem	18-02-16

Sl.No.	Halt	Division	Date of closing
1	Suchindram	Trivandram	18-02-15

Sl.No.	Halt	Division	Date of opening
1	Tirumalairayanpattinam	Tiruchchirapalli	19-06-15

Sl.No.	Halt	Division	Date of Downgradation
1	Padalam Block station	Chennai	Temporarily downgraded into halt from 18/06/2014 has been regularized from 15/07/15 (GM post sanction on 13/07/15).

12. 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.

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

Freight :

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

Sl. No.	Commodity	2015-16	
		Tonnage in 000's	Earnings (₹ in Crores)
1	Imported Fertilizer ..	1006	111.70
2	Imported Gypsum ..	273	35.93
3	Imported Palm oil ..	20	4.20
4	Imported Wheat ..	17	0.76
5	Imported Coke ..	121	18.57
6	Imported Coal ..	7833	350.25
7	Imported Limestone ..	1911	198.00
8	Imported Iron Ore ..	71	5.34
9	Imported Clinker ..	22	0.83
10	Imported Container ..	3	0.71
11	Imported Dolomite ..	581	57.38
12	Imported Steel ..	66	6.65

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

Type of Traffic	Tonnes in Thousands		Earnings in Crores	
	2014-15	2015-16	2014-15	2015-16
a. High Rated Traffic	256	242	36.41	27.43
b. Programmed Traffic	31,340	28,147	2,056.25	1956.05
c. Low rated Traffic	2,426	1,817	243.83	186.10
d. Other Revenue Traffic	5,115	3,169	508.68	359.56

3. The originating goods loading over Southern Railway during 2015-16 was 33.374 Million Tonnes as against 39.137 Million Tonnes during 2014-15. Similarly the originating Goods Earnings during 2015-16 was ₹. 2,589.67 Crores as against ₹. 2,925.81 Crores during 2014-15.

4. Increase in Loading of commodities :

There was considerable increase in loading under the following commodities in 2015 - 16 compared to 2014 - 15.

Sl. No.	Commodity	2014-15	2014-15	2015-16	2015-16
		Tonnes	Earnings in lakhs	Tonnes	Earnings in lakhs
1	Sugar	18354	352.10	71507	1079.95
2	Caustic Soda & Ash	Nil	Nil	17544	167.37
3	POL	36,06,526	40,199.05	36,54,450	42,089.65

5. Automobile Traffic :

As a result of continuous liaison and effective marketing contacts with Automobile Traders, Southern Railway has moved 115 rakes with total revenue of ₹ 34.95 Crores during 2015-16.

6. Parcel

The originating Parcel loading during 2015-16 was 4.01 lakhs of tonnes with an earnings of ₹ 167.39 Crores as against 4.64 lakhs of tonnes with earnings of ₹ 167.39 Crores during 2014-15.

Under FSLR, AGC and round trip VP leasing scheme, Southern Railway had earned ₹ 53.73 Crores during the year 2015-16.



VII. यांत्रिक इंजीनियरी/MECHANICAL ENGINEERING

Stock on Line

The particulars of Rolling Stock on line owned at the end of March 2016 as compared to the previous year :—

As on 31st March 2016	Locomotives						Passenger and other Coaching Vehicles		Rail Car in units		EMU's in 4 Coach units	
	Broad Gauge			Metre Gauge N. M. R.								
	Elec. A. C. Locos	DSL. Locos	DSL. HYD. Locos	Elec.	Steam	DSL. Locos	B. G.	M. G.	B. G.	M. G.	B. G., EMU, M. G.	T. C.
Previous year 2014-2015	435	355	12	*	8	9	6,322	31	-	-	269	542
Current year 2015-2016	450	347	8	*	8	7	6,596	31	-	-	273	552

As on 31st March 2016	Wagon in Units		Travelling Cranes					
			BROAD GAUGE			METRE GAUGE		
	B. G.	M. G.	Steam	Diesel	Hand	Steam	Diesel	Hand
Previous year 2014-2015	9,517	217	..	6	..	..	..	..
Current year 2015-2016	9,428	189	..	6	..	..	..	..

2. Additions and Renewal

Particulars	BROAD GAUGE		METRE GAUGE	
	Additions	Replacement	Additions	Replacement
LOCOS :				
Steam	..	..	..	..
Diesel	..	..	..	..
Electric	3	..	..	..
COACHES :				
Bogies	325	..	..	..
Locos	14	..	..	..
Coaches	MC TC	..	..	..
EMU Trailer Coaches	4 10	..	..	..
Transferred from other Railways	..	..	..	..
Transferred to other Railways	47	..	..	..
WAGONS :				
Bogies	54	..	..	..

Out of 21 (a) 2 WDG4 Received on Transfer from other Railways
(b) 19 New Locos received.

2.1 Wagon built by wagon building firms and Railway Workshop (2015-2016)

Name of the Firm	Type	No. in Vehicle units	No. in 4-Wheelers units
Broad Gauge Stock	NII	NII	NII
M/s. Modern Industries Ghaziabad	BTPN	5	—
M/s. Braithwaite Ltd. Kalkatta	BOSTHS	49	—
M. G. STOCK	Ni	Ni	Ni

2.2 Goods Stock Transferred from other Railways

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

3. Locomotives Online with their Tractive efforts (a) Steam Locos

As on 31st March 2016	Broad Gauge		Metre Gauge	
	No.	Total Tractive Efforts (Kgs.)	No.	Total Tractive Efforts (Kgs.)
Previous Year 2014-2015	..	..	8	97,432
Current Year 2015-2016	..	..	8	97,432

(b) Diesel Locomotives

As on 31st March 2016	Broad Gauge		Metre Gauge	
	No.	Total Tractive Efforts (Kgs.)	No.	Total Tractive Efforts (Kgs.)
Previous Year 2014-2015	367	1,11,43,410	9	1,72,800
Current Year 2015-2016	365	1,07,74,230	7	1,34,400

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

Particulars	Broad Gauge	
	Nos.	Horse Power
Last Year 2014-15	WAM 4-22	80,479
	WAP1-33	1,25,400
	WAP 4-148	7,40,000
	WAG 7-112	5,60,000
	WAG5A/HA-89	3,42,650
	WAP7-31	1,89,720
Current year 2015-16	WAM 4-8	29,265
	WAP1-33	1,25,400
	WAP 4-151	7,55,000
	WAG 7-122	6,10,000
	WAG5A/HA-89	3,42,650
	WAP7-47	2,87,640

4. Coaches Vehicles and seating capacity (Except EMU)

As on 31st March current year 2015-16	Pass. Coaches (No. in units)	Other Coaching Vehicle (No. in units)	Total Seats			
			Air condition	1st Class	II Class	
					Berths	Seats
Broad Gauge	6,240	537	63,906	234	155868	456825
N. M. Railway	26	5	..	250	..	1060

5. Goods Vehicles and carrying capacity

As on 31st March current year 2015-16	Public Traffic Wagons Covered Wagons Open Wagons				Special wagons including Brake Vans No. in units	Depot. Railway Service wagons (No. in units)	Total Goods vehicles (No. in units)
	No. in units	Capacity in tonnes	No. in units	Capacity in tonnes			
Broad Gauge	5316	289112.1	3851	215746.5	261	..	9428
Metre Gauge (Incl. N. M. Railway)	175	6196.6	20	713.7	3	6	198

6. Diesel Rail Cars

As on 31st March 2016	(A) Motor Coaches		(B) Trailer Coaches	
	No. in units	Total Seats	No. in units	Total seats
Previous year 2014-15	..	..	..	..
Broad Gauge	..	..	..	..
Metre Gauge	..	..	..	..
Current year 2015-16	..	..	..	..
Broad Gauge	..	..	..	..
Metre Gauge	..	..	..	..

8. Rolling Stock by Age Group

(a) Locomotives (Steam)

Age Group	Broad Gauge				Metre Gauge			
	Previous Financial Year		Current Financial Year		Previous Financial Year		Current Financial Year	
	2014-2015		2015-2016		2014-2015		2015-2016	
	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	..	..	..	..	8	100.00	8	100.00
Total	..	..	..	..	8	100.00	8	100.00

Electrical Multiple Units

Particulars	Motor Coaches		Trailer Coaches	
	Nos.	Horse Power	Nos.	Horse Power
As on 31st March 2014-2015	..	..	..	..
Broad Gauge	269	241024	542	..
As on 31st March 2015-2016	..	..	..	..
Broad Gauge	272	243712	550	..

7. Travelling Cranes

As on 31st March 2016	Steam Cranes		Diesel Cranes		Hand Cranes	
	No. in units	Capacity in Tonnes	No. in units	Capacity in Tonnes	No. in units	Capacity in Tonnes
Broad Gauge	..	..	6	140T X 6	..	..
Previous year 2014-15	..	..	..	..	..	..
Broad Gauge	..	..	8	140T X 6	..	..
Current year 2015-16	..	..	..	..	..	..
Metre Gauge	..	..	..	..	..	..
Previous year 2014-15	..	..	..	..	..	..
Metre Gauge	..	..	..	..	..	..
Current year 2015-16	..	..	..	..	..	..

Rolling Stock

(a) Electric Locomotive (Broad Gauge)

Age Group Years	2014-2015		2015-2016	
	Nos.	Percentage	Nos.	Percentage
Less than 1 Year	21	4.83	24	5.33
1 to 5 Years	77	17.71	97	21.56
6 to 10 Years	80	18.39	69	15.33
11 to 15 Years	48	11.04	52	11.56
16 to 20 Years	84	19.31	78	17.33
21 to 25 Years	73	16.78	78	17.33
26 to 30 Years	24	5.51	36	8.00
Above 30 Years..	28	6.43	16	3.56
Total	435	100.00	450	100.00

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(b) Passenger Coaches

Age Group Years	Broad Gauge				Metre Gauge			
	Previous Financial Year		Current Financial Year		Previous Financial Year		Current Financial Year	
	2014/15		2015/16		2014/15		2015/16	
	No.	%	No.	%	No.	%	No.	%
1 to 5	1660	27.33	1773	28.43	..	..	..	..
6 to 10	1316	21.67	1167	18.71	..	..	..	..
11 to 15	1152	18.97	1155	18.52	1	4.0	1	4.0
16 to 20	1201	19.78	1320	21.16	..	..	..	..
21 to 25	703	11.58	756	12.12	24	96.0	24	96.0
26 to 30	41	00.67	66	1.06	..	..	..	..
31 to 35	..	..	..	..	..	..	..	..
Over 35	..	..	..	..	..	..	..	..
Total	6073	100.00	6237	100.00	25	100.00	25	100.00

(i) Motor Coaches

Age Group Years wise	2014-2015		2015-2016	
	Nos.	Percentage	Nos.	Percentage
Broad Gauge				
1 to 5 Years	47	17.48	53	19.49
6 to 10 Years	95	35.32	75	27.57
11 to 15 Years	64	23.79	81	29.78
16 to 20 Years	39	14.49	36	13.23
21 to 25 Years	22	8.17	26	9.56
26 to 30 Years	2	0.75	1	0.37
Above 30 Years	0	0	0	0
Total	269	100.00	272	100.00

(ii) Trailer Coaches 110

Age Group Years	2014-2015		2015-2016	
	Nos.	Percentage	Nos.	Percentage
1 to 5 Years	84	15.50	96	17.72
6 to 10 Years	186	34.32	149	27.50
11 to 15 Years	139	25.65	165	30.49
16 to 20 Years	99	18.26	98	18.17
21 to 25 Years	28	5.16	37	5.13
26 to 30 Years	6	1.11	5	0.93
Above 30 Years	0	0	0	0
Total	542	100.00	550	100.00

(c) Wagons

General Services

Age Group Year	Broad Gauge				Metre Gauge			
	Previous Financial Year		Current Financial Year		Previous Financial Year		Current Financial Year	
	2014-2015		2015-2016		2014-2015		2015-2016	
	No.	%	No.	%	No.	%	No.	%
1 to 5	124	1.38	149	1.68	-	-	-	-
6 to 10	669	7.45	688	7.74	-	-	-	-
11 to 15	557	6.20	235	2.64	-	-	-	-
16 to 20	4898	54.04	5226	58.78	-	-	-	-
21 to 25	1839	20.48	714	8.04	193	100.00	186	100.00
26 to 30	865	9.63	1787	20.10	-	-	-	-
31 to 35	28	0.31	91	1.02	-	-	-	-
36 to 40	0	0	0	0	-	-	-	-
Over 40	0	0	0	0	-	-	-	-
Total	8980	100.00	8890	100.00	193	100.00	186	100.00

9. Rolling Stock on line

(a) Overaged Steam Locomotives on line as on 31st March 2016

Type of Stock	BROAD GAUGE						Percentage of overaged to total	Stock condemned in current financial year 2015-2016			METRE GAUGE						Stock condemned in current financial year 2015-2016			
	Total Stock			Stock Overaged							Total Stock			Stock overaged						
	Non-Re-placed	Re-placed	Total	Non-Re-placed	Re-placed	Total		Non-Re-placed	Re-placed	Total	Non-Re-placed	Re-placed	Total	Non-Re-placed	Re-placed	Total	Percentage of overaged to total	Non-Re-placed	Re-placed	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Passenger	..	..	..	..	..	..	..	..	..	..	4	4	8	4	4	8	..	..	..	..
Mixed Goods	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Light Goods and Miscellaneous.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	..	..	..	..	4	4	8	4	4	8	..	..	..	..

(b) Number of locomotives put off and new locomotives put on line during the year 2015-2016.

Sl. No.	Particulars	BROAD GAUGE			Steam	METRE GAUGE	
		Steam	Diesel	Electric (A/C.)		Diesel	Electric (A/C.)
1.	No. of locomotives taken off the line	..	8	14	..	..	..
2.	No. of locomotives placed on line	..	3	23	..	..	..
3.	No. of locomotives permanently transferred from other Railway.	..	2	—	..	..	..
4.	No. of locomotives permanently transferred to other Railway.	..	4	—	..	..	..

(c) Overaged Coaching Stock on line as on 31st March 2016 — Broad Gauge — Coaches

Sl. No.	Particulars	Total stock owned			Stock Over Aged			Percentage of overaged to total Stock on line	Stock condemned during the current financial year 2015-2016		
		Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total		Non-Replaced	Replaced	Total
1.	Air-conditioned class	1129	0	1129	4	0	4	0.03	8	0	8
2.	Upper Class (First)	6	0	6	0	0	0	0.00	11	0	11
3.	Composite Class	0	0	0	0	0	0	0.00	0	0	0
4.	Lower Class (Second).	5105	0	5105	89	0	89	1.31	73	0	73
5.	Tourist Car Inspection. Carriage and Dining Cars.	180	0	180	0	0	0	0.00	0	0	0
6.	All other coaching Vehicles excluding these under item 5. & PPS.	357	0	357	58	0	58	0.86	8	0	8
Total		6777	0	6777	151	0	151	2.23	100	0	100

Trailer Coaches DMU., DTC & TC Coaches

Diesel Power Coaches	0	0	0
Trailer Coaches TC	89	0	89
Diesel Trailer Coaches DTC	6	0	6
Total	95	0	95

METRE GAUGE—COACHES

Particulars	Total stock owned			Stock Over Aged			Percentage of overaged to total stock on line	Stock condemned during the current financial year 2015-2016		
	Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total		Non-Replaced	Replaced	Total
1. Air-conditioned Class.	..	..	..	..	..	..	..	..	..	..
2. Upper Class (First)	..	..	..	..	..	..	..	1	..	1
3. Composite Class	..	..	..	..	..	..	..	..	..	..
4. Lower Class (Second)	..	..	..	..	..	..	..	24	..	24
5. Tourist Car Inspection Carriage and Dining Cars.	..	..	..	..	..	..	..	3	..	3
6. All other coaching Vehicles excluding these under item. 5 & PPS	..	..	..	..	..	..	..	1	..	1
Total	..	..	..	..	..	..	..	29	..	29

DIESEL RAIL CARS

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

RAIL BUS

YRB	1	0	1
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(d) Overaged wagon stock on line as on 31st March 2016 (Broad Gauge wagons)

Sl. No.	Type of Wagons	Stock on Line			Stock Overaged			Percentage of overaged to total stock on line	Stock condemned during the current financial year 2015-16		
		Non-Replaced	Replaced	Total	Non-Replaced	Replaced	Total		Non-Replaced	Replaced	Total
1.	Covered										
2.	Open	4865	0	4865	28	0	28	0.30	10	0	3
3.	Brake-vans	2887	0	2887	81	0	81	0.86	132	0	132
4.	Tank Wagons	261	0	261	19	0	19	0.20	3	0	3
5.	Special Stock	456	0	456	102	0	102	1.08	1	0	1
6.	Railway Service Wagons.	959	0	959	20	0	20	0.21	2	0	2
	Total ..	0	0	0	0	0	0	0.00	0	0	0
		9428	0	9428	250	0	250	2.65	148	0	148

Particulars	BROAD GAUGE		METRE GAUGE	
	Coaches	Wagons	Coaches	Wagons
Number put off the line during the year 2014-2015.	491	60	0	0
Number put on line during the year 2015-2016.	325	54	0	0

10 (a) Locos 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.	%	
BROAD GAUGE 2014–2015													
Diesel Electric	..	..											
Diesel Hydraulic	..	..	352.99	27.12	7.68	6.46	1.83	-	-	20.66	5.85	-	-
Electric	..	..	5.86	0.42	7.17	0.00	0.00	-	-	0.42	7.17	-	-
Total	..	..	430.2	33.26	7.73	5.98	1.39	-	-	27.28	6.34	-	-
METRE GAUGE 2014–2015													
			789.05	60.8	7.71	12.44	1.58	-	-	48.36	6.13	-	-
Steam	..	..											
Diesel Electric	..	..	11.00	3.94	35.82	3.25	29.55	-	-	0.69	6.27	-	-
Diesel Hydraulic	..	..	5.00	0.00	0.00	0	0.00	-	-	0	0.00	-	-
Electric	..	..	-	-	-	-	-	-	-	-	-	-	-
Total	..	..	-	-	-	-	-	-	-	-	-	-	-
BROAD GAUGE 2015–2016			16.00	3.94	24.63	3.25	20.31	-	-	0.69	4.31	-	-
Diesel Electric	..	..											
Diesel Hydraulic	..	..	349.42	29.98	8.58	6.11	1.75	-	-	23.87	6.83	-	-
Electric	..	..	3.06	0.54	17.65	0.00	0.00	-	-	0.54	17.65	-	-
Total	..	..	441.72	30.30	6.86	8.19	1.85	-	-	22.11	5.01	-	-
METRE GAUGE 2015–2016			794.20	60.82	7.66	14.30	1.80	-	-	46.52	5.86	-	-
Steam	..	..											
Diesel Electric	..	..	8.00	1.61	20.13	0.95	11.88	-	-	0.66	8.25	-	-
Diesel Hydraulic	..	..	5.00	0.00	0.00	0	0.00	-	-	0	0.00	-	-
Electric	..	..	-	-	-	-	-	-	-	-	-	-	-
Total	..	..	-	-	-	-	-	-	-	-	-	-	-
			13.00	1.61	12.38	0.95	7.31	-	-	0.66	5.08	-	-

(b) Coaching stock under or Awaiting Repairs

Type	Year	Average No. on line (in Units Vehicle)	Average under Repairs		In Mechanical Workshops		In sick lines and Transportation		Stabled Awaiting Workshop Repairs		In Transit	
			No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage
<u>BROAD GAUGE</u>												
Passenger Coaching Vehicles	2014—2015	5950	379.51	6.38	211.31	3.55	53.73	0.90	61.82	1.04	52.64	0.88
	2015—2016	6183	366.25	5.92	210.47	3.40	51.00	0.82	53.53	0.87	51.24	0.83
Other Coaching Vehicles—	2014—2015	339	26.88	7.93	17.04	5.03	2.36	0.70	5.02	1.48	2.47	0.73
	2015—2016	384	18.26	4.76	11.06	2.88	2.42	0.63	2.98	0.78	1.81	0.47
All Coaching Vehicles—	2014—2015	6289	397.78	6.33	228.35	3.63	56.09	0.89	66.84	1.06	55.11	0.88
	2015—2016	6567	384.51	5.86	221.53	3.37	53.42	0.81	56.51	0.86	53.05	0.81

Type	Year	Average	Average under		In Mechanical		In sick lines and		Stabled Awaiting		In Transit	
		No. on line (in Units Vehicle)	Repairs	No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage	No.
METRE GAUGE												
Passenger	2014-2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coaching	2015-2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vehicles—												
Other	2014-2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coaching	2015-2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vehicles—												
All	2014-2015	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Coaching	2015-2016	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vehicles—												

(c) Wagons under or awaiting Repairs

Year	Average No. on line (8 Wh.)	Average under Repairs		in Mechanical Workshops		In sick line and Transportation		Stabled awaiting workshop repairs	
		No.	Percentage	No.	Percentage	No.	Percentage	No.	Percentage
BROAD GAUGE									
2014–2015	7903.77	613.00	7.76	98	1.24	259	3.28	257	3.25
2015–2016	6460.41	553.00	8.56	94	1.46	160	2.48	299	4.63
METRE GAUGE									
2014–2015	0.00	0	0.00	0	0.00	0	0.00	0	0.00
2015–2016	0.00	0	0.00	0	0.00	0	0.00	0	0.00

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

Details	Heavy repairs Periodical overhaul	IOH	Special repairs	Total	Equivalent Std. I Class Unit repairs	Average number of days taken for POH	
						Calender days	Working days excluding Sundays and Shop Holidays
Previous Financial Year 2014-2015	—	..	..	—	—	—	—
Current Financial Year 2015-2016	1	..	..	1	1.00	341	273
The kilometres between periodical overhaul of loco No. 3 Nil.							
Previous Financial Year 2014-2015 .. Nil.							
The kilometers between periodical overhaul of loco No. X 37391							
Current Financial Year 2015-2016 ..	..	..	17369 KMs				

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(b) Over aged coaching and wagon stock on line as on 31st March 2016

I. Under or awaiting repairs

Particulars in a Locos		Average on line		Average under repairs (Hourly)		Installed and Transportation W. Shop		Locos in Transit	
(a) Locos									
Broad Gauge		Nos.	%	Nos.	%	Nos.	%	Nos.	%
2014-2015		430.20	100	43.51	10.11	43.51	10.11	..	..
2015-2016		441.72		40.70	9.21	40.70	9.21	..	..

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

2014-2015	261.25	100	18.33	7.02	18.33	7.02	..	..
2015-2016	279.93	100	20.32	7.45	20.32	7.45	..	..

C & D Rolling Stock Turned out after repairs from workshops (b) Coaches in VUs.

Shop	Activity	Periodical Over hauling	Previous Financial Year 2014-2015			Current Financial Year 2015-16			
			Off Schedule		Total	Periodical Over hauling	Off Schedule		Total
			Over	Below			Over	Below	
			Rs. 100	Rs. 100			Rs. 100	Rs. 100	
BROAD GAUGE									
<i>Perambur Carriage Works —</i>									
Passenger Coaches	PCVs	1730	141	0	1871	1764	151	0	1915
Other Coaches	OCVs	270	0	0	270	231	0	0	231
	Total	2000	141	0	2141	1995	151	0	2146
<i>Perambur Loco Works—</i>									
Passenger Coaches	PCVs	523	2.7	0	525.7	545	17.5	0	562.5
Other Coaches	OCVs	0	0	0	0	0	0	0	0
	Total	523	2.7	0	525.7	545	17.5	0	562.5
	DTC/TCs of DEMU	65	0	0	65	54	0	0	54
<i>Golden Rock Workshops —</i>									
Passenger Coaches	PCVs	882	84	0	966	906	88.5	0	994.5
Other Coaches	OCVs	58	0	0	58	33	0	0	33
	Total	940	84	0	1024	939	88.5	0	1027.5

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

Shop	Activity	Periodical Over hauling	Previous Financial Year 2014-2015			Current Financial Year 2015-2016			
			Off Schedule		Total	Periodical Over hauling	Off Schedule		Total
			Over	Below			Over	Below	
			Rs. 100	Rs. 100			Rs. 100	Rs. 100	
METRE GAUGE									
<i>Gold Rock Workshop—</i>									
Passenger Coaches	PCVs	0	0	0	0	5	0	0	5
Other Coaching Vehicles	OCVs	1	0	0	1	4	0	0	4
	Total	1	0	0	1	9	0	0	9

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

Gauge	Shop	Periodical Overhaul	2014-2015			2015-2016		
			Off. Schedule	Total		Off. Schedule	Total	
Broad Gauge	CW/PER	..	3,051	0	3,051.0	3,135	0	3,135
	GOC	..	..	0	0	0	0	0
	Total	..	3,051	0	3,051.0	3,135	0	3,135
Metre Gauge	GOC..	..	..	0	0.0	..	..	0

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

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

Activity	Shop	Broad Gauge		Metre Gauge	
		Previous Financial Year	Current Financial Year	Previous Financial Year	Current Financial Year
		2014-2015	2015-2016	2014-2015	2015-2016
PCVs	CW/PER	11.9	11.3	..	..
	LW/PER	7.65	8.86	..	..
	GOC	17.3	17.8	17.0	18.9
OCVs	CW/PER	8.6	6.6	..	..
	LW/PER	..	..	..	..
	GOC	10.8	11.9	..	8.0
WAGONS	CW/PER	4.0	5.4	..	..
	LW/PER	..	..	..	..
	GOC	..	..	..	..

(g) POH Unit Cost of Repairs

Rs. in Thousands

Stock	Shop	-	Broad Gauge		Metre Gauge	
			Previous Financial Year	Current Financial Year	Previous Financial Year	Current Financial Year
			2014-15 (Actuals)	2015-16 (Actuals)	2014-15 (Actuals)	2015-16 (Actuals)
Steam Loco	GOC	..	..	..	..	..
			3805	4783	No Activity	
			..	..		
Dsl. Hyd.	LW/PER	..	..	..	No Activity	
			11986	11318		
			..	..		
AC Electric	GOC	..	10340	10450	6925	7000
			..	..	..	..
			..	..	..	..

Unit repair cost (per loco)

Steam Loco	GOC	..	..	..	..	
Driving Power Car of DMU			3805	4783	No Activity	
Dsl. Hyd.	LW/PER	..	..	..		
AC Electric		..	11986	11318		
Dsl. Elec.	GOC	..	10340	10450	6925	7000

12. LOCOMOTIVES, COACHES & WAGONS OVERDUE REPAIRS

Rolling Stock	Type	Broad Gauge				Metre Gauge			
		Current financial Year as on 31-03-2015	Current financial Year as on 31-03-2016	Current financial Year as on 31-03-2015	Current financial Year as on 31-03-2016	Current financial Year as on 31-03-2015	Current financial Year as on 31-03-2016	Current financial Year as on 31-03-2015	Current financial Year as on 31-03-2016
		No.	%	No.	%	No.	%	No.	%
Locos	(a) Steam	Nil	Nil	Nil	Nil	2	25.0	4	50.0
	(a) Dsl. Electric	..	..	..	..	..	..	..	..
	(c) Dsl. Hydraulic	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Coaches (In VUs)		26	0.41	33	0.5	..	..	..	..

(b) ENGINE FAILURES – DIESEL-LOCOS

Gauge	Type	Year	Total No. of failure	Average KMs per engine failure	Failure under various service			Engine KMs per engine failure (various services)		
					Pass	Mixed	Goods	Pass	Mixed	Goods
B. G.	Dls. Electric	2014-15	92	428405	76	..	16	398205	@@	571852
		2015-16	91	435135	74	..	17	427442	@@	471196
	Dsl. Hydraulic	2014-15	..	..	..	..	..	@@	@@	..
		2015-16	..	..	..	..	..	@@	@@	..
M. G.	Dls. Electric	2014-15	..	54930 (*)	..	..	..	54930 (*)	@@	..
		2015-16	..	54986 (*)	..	..	..	54986 (*)	@@	..
	Dsl. Hydraulic	2014-15	..	..	..	..	..	..	..	..
		2015-16	..	..	..	..	..	..	..	..

Note. – (*) Denotes total engine Kms. without failure
 (@@) There is no service

(g) POH Unit Cost of Repairs

Rs. in Thousands

Stock	Shop	-	Broad Gauge		Metre Gauge	
			Previous Financial Year	Current Financial Year	Previous Financial Year	Current Financial Year
			2014-15 (Actuals)	2015-16 (Actuals)	2014-15 (Actuals)	2015-16 (Actuals)
PCV-POH	GOC	..	938	956	No Activity	
			956	952		
			757	865		
Driving Trailer coach of DEMU-POH	LW/PER	..	998	998	510	
			842	840		
			3805	4783		
Trailer coach of DEMU-POH	LW/PER	..	1048	727	No Activity	
			..	..		
			..	..		

Average cost of repairs per Passenger Carriage (In FWUs)

PCV-POH	GOC	..	938	956	No Activity	
			956	952		
			757	865		
Driving Trailer coach of DEMU-POH	LW/PER	..	998	998	510	
			842	840		
			3805	4783		
Trailer coach of DEMU-POH	LW/PER	..	1048	727	No Activity	
			..	..		
			..	..		

Average cost of repairs per Other Carriage (In 8 Wheeler)

OCVs-POH	CW/PER	899	935		
	LW/PER	..	..		
	GOC	1502*	1511	359	434

Average cost of repairs per Wagon (In FWUs)

Wagons --	CW/PER	262	295	No Activity	
POH	GOC	..	..	..	..

Rolling Stock Planned Out After Repairs (In Lakhs of Rs.)

		Years		Broad Gauge
		2014-15	2015-16	
i.	Average cost of maintenance and repairs per locomotives (Electrical) without POH cost.	25.73	28.30	
ii.	Average cost of maintenance and repairs of EMU Coach Unit.	29.98	29.47	

13. (a) ENGINE FAILURES STEAM-LOCOS 2014-15 AND 2015-16

Year	Total No. of engine failure	Average Kms per engine failures	Engine failures under various services			Engine failures under various services		
			Pass.	Mixed	Goods	Pass.	Mixed	Goods
2014-15	..	..	..	..	..	..	..	..
2015-16	1	19440	1	..	..	19440	..	..

ENGINE FAILURES STEAM-LOCOS 2015-16

Month/Year	No. of engine failures	Pass.	Mixed	Goods	Total
April 2015	..	1647	..	..	1647
May 2015	..	1647	..	..	1647
June 2015	..	1620	..	..	1620
July 2015	..	1674	..	..	1674
August 2015	..	1674	..	..	1674
September 2015	..	1620	..	..	1620
October 2015	..	1674	..	..	1674
November 2015	..	1296	..	..	1296
December 2015	..	1674	..	..	1674
January 2016	..	1674	..	..	1674
February 2016	..	1566	..	..	1566
March 2016	1	1674	..	..	1674
Total	1	19440	..	..	19440
Average Kms per engine failures 2015-16	1	19440	..	..	19440

Gauge	Type	Year	Total No. of failure	Average KMs per engine failure	Failure under various service			Engine KMs per engine failure (various services)		
					Pass	Mixed	Goods	Pass	Mixed	Goods
B. G.	Dls. Electric	2014-15	92	428405	76	..	16	398205	@@	571852
		2015-16	91	435135	74	..	17	427442	@@	471196
	Dsl. Hydraulic	2014-15	..	..	..	..	..	@@	@@	..
		2015-16	..	..	..	..	..	@@	@@	..
M. G.	Dls. Electric	2014-15	..	54930 (*)	..	..	..	54930 (*)	@@	..
		2015-16	..	54986 (*)	..	..	..	54986 (*)	@@	..
	Dsl. Hydraulic	2014-15	..	..	..	..	..	..	..	..
		2015-16	..	..	..	..	..	..	..	..

Engine failures-Diesel Locos (SR LOCOS IN SR territory)

-	Total No. of statistical Engine failures	Average Kms per Engine failures in Lakhs
BG	91	5.02
MG	0	0

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Engine Failures (Electrical) 2014-2015 and 2015-2016

Year	Total No. of engine failure	Average Kms. per engine failure (in lakhs)	Failure under various services			Engine KM/Engine failure under various services (in lakhs)		
			Passenger	Mixed	Goods	Passenger	Mixed	Goods
BROAD GAUGE								
2014-2015	110	7.35	67	..	43	7.33	..	7.37
2015-2016	114	7.29	84	..	30	5.99	..	10.93

Energy and Amount particulars of traction and Non-traction

Sl. No.	Description	Year	
		2014-14	2014-16
1	Traction consumption in million units	1113.55	1125.06
2	Non-traction consumption in million units	123.622	122.813
3	Total in million units	1237.172	1247.873
4	Traction amount paid ₹ in crores	747.18	745.319
5	Non-traction amount paid ₹ in crores	85.65	94.714
6	Total ₹ in crores	832.83	944.274
7	Traction Average rate ₹./kwh	6.71	8.39
8	Non-traction average rate ₹./kwh	6.92	7.71
9	Total	6.73	7.56

14. Hot Boxes

Stock	Gauge	Year	Total No. of Hot Boxes	Responsibility			Percentage of variation over previous year	No. per One million wagons Kms. and Ten Million Vehicle Kms.
				Southern Railway	F. Railway	Un fixed		
Coaches	BG	2014-15	7	3	4	..	(-) 250.00%	0.03
		2015-16	3	4	1	..	(+) 57.14 %	0.02
	MG	2014-15	..	..	..	..	..	..
		2015-16	..	..	..	..	..	..
Goods	BG	2014-15	29	10	19	..	(+) 21.62 %	0.06
		2015-16	19	3	16	..	(+) 34.48 %	0.04
	MG	2014-15	..	..	..	..	..	..
		2015-16	..	..	..	..	..	..

Note.— (+) Denotes improvement

(-) Denotes deterioration

15 Shedwise yearly outage—2015-2016 B. G. (Service base Outage Bd's)

Month and Year	TARGET					ACTUAL					
	ED	GOC	ERS	TNP	TOTAL	ED	GOC	ERS	TNP	TOTAL	
April ..	48.0	22.0	8.4	3.5	81.9	51.0	24.9	8.3	4.1	88.2	
May ..	45.4	21.3	7.5	2.7	76.9	49.4	22.1	8.4	3.9	83.8	
June ..	45.4	21.3	7.5	2.7	76.9	49.6	22.7	8.6	3.1	84.0	
July ..	39.1	23.0	6.7	2.7	71.5	44.0	23.6	6.3	3.2	77.1	
August ..	25.7	23.0	4.0	2.8	55.5	31.0	23.6	5.5	3.2	63.4	
September	25.8	23.0	3.1	2.8	54.7	25.8	24.7	6.0	3.5	59.9	
October ..	23.9	23.9	3.1	2.7	53.6	27.0	25.8	3.7	3.4	59.9	
November	23.9	23.9	3.1	2.7	53.6	25.9	25.7	3.5	3.4	58.5	
December	26.5	23.0	3.1	2.8	55.4	26.6	23.9	4.9	3.2	58.5	
January ..	26.5	23.0	3.1	2.8	55.4	27.5	23.4	4.0	3.0	58.9	
February..	26.5	23.0	3.1	2.8	55.4	28.7	25.0	3.5	3.4	60.6	
March ..	26.5	23.0	3.1	2.8	55.4	26.9	25.0	4.4	4.1	60.4	
Total ..	383.2	273.4	55.8	33.8	746.2	413.3	291.3	66.9	41.5	813.1	
Average	31.9	22.8	4.7	2.8	62.2	34.4	24.3	5.6	3.5	67.8	

VIII. बिजली इंजीनियरी/ELECTRICAL ENGINEERING

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

The following are the figures pertaining to the years 2014-15 and 2015-16 and kWh in Millions :—

Sources of Power	Generated (sent out from bus bars)	Purchase		Total	
		2014-15	2015-16	2014-15	2015-16
Energy Purchase from State Electricity Board in million Unit					
(a) General Service					
(i) Tamil Nadu	103.092	101.656	..	..	..
(ii) Andhra Pradesh	0.833	0.743	..	..	..
(iii) Karnataka	1.960	2.120	123.622	122.813	..
(iv) Kerala	17.737	18.294	..	..	..
(b) Traction Services					
(i) Tamil Nadu	823.77	834.35	..	..	..
(ii) Andhra Pradesh	84.47	77.87	..	..	..
(iii) Karnataka	..	..	1113.55	1125.06	..
(iv) Kerala	205.31	212.83	..	..	..
Total	..	..	1237.172	1247.873	..

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	2014-15	2015-16
(i) Energy Purchase	In Million KWH	1237.172	1247.873	
(ii) Total Cost	(₹ in Crores)	832.83	944.274	
(iii) Average rate per kWh		6.73	7.56	

3. Analysis of total electrical energy consumed for various services in terms of percentage of the total energy purchase 2015-16

	Percentage
a. Major workshops (12.655 Million Units)	1.014
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 (10.588 mu)	0.848
(ii) Service Buildings (57.046 mu)	4.571
(iii) Yard lighting (2.366 mu)	0.190
(iv) Hospital (5.788 mu)	0.464
c. Staff quarters and staff welfare buildings, (34.370 mu).	2.754
Traction Services (1125.06 Million Units)	90.159

4. Generating and Purchasing Stations as on 31st March 2016.

Generating Stations : There are no generating stations on this Railway, However, Diesel generating sets of capacities varying from 10kVA to 500kVA are provided at important installations as standby source of supply during interruption of supply from the State Electricity Board sources. Following are the particulars :—

Particulars	No. of DG sets	Cap. in kVA	Purchasing Stations of Supply Points	
			HT	LT
As on 31st March 2015	230	22397	88	3104
As on 31st March 2016	235	22734	88	3201

5. Electrical Traction Distribution (2015-16)

	Upto 31st March 2015	Upto 31st March 2016
1. Total Route km. Electrified	2,534	2,706
2. Total Track km. Electrified	5,688	6,212

6. A. C. Electric Locomotives

Particulars	Broad Gauge (average for the year)	
	2014-15	2015-16
(i) Total No. of Engine on line	430.20	441.72
(ii) No. of Engine in use (average per day).	..	..
a. Goods Service	177.47	187.12
b. Passenger Service	209.23	213.91
c. Shunting	..	..
d. Departmental	..	..
e. Banking	..	..
f. Spare	0.50	0.33
Total average per day	384.20	401.36
(iii) Engine km/day/Engine in line	574	567
(iv) Engine km/Day/Engine in use	574	596
(v) Total No. of failure		
a. Passenger Service	67	84
b. Goods Service	43	30
(vi) Engine km/Engine failure		
a. Passenger Service	733078	599328
b. Goods Service	737401	1093226
(vii) Total km (Passenger and goods service).	80824519	1568685

7. Suburban Electric Multiple Unit Stock—Broad Gauge

	2014-15	2015-16
(i) Holding as on 31st March 2015		
a. In terms of Units (1 unit = 1 MC + 2 TC) (4 Coaches WAU-1 type)	269	272
b. In terms of Coaches (Motor Coaches and trailer Coaches).	811	822
c. Break up of Coaches (Motor Coaches and trailer Coaches).	289MC & 542TC	272MC & 550TC
Motor Coaches ICF Coaches 238	199	196
(i) Kms. run in terms of single units	35204666	36448280
(ii) Total No. of Failure	NII	..
(iii) Kms/Motor Coaches failure	35204666	36448280

8. Electrical General Services Particulars

		2014-15	2015-16
(i) Generating, Converting and transforming Plants.	Nos.	340	337
Transformer capacity in	kVA	165555	165045
(ii) Total connected loads of installations purchasing power from outside sources in kw. (in thousands).		183273	185608
(iii) Electrification of stations including block huts		728	728
(iv) Total No. of Motors (other than pump motors in service in major workshops, TL depots, divisional electrical repair shops, Printing Press, etc.,)	Nos.	4913	4895
	Capacity	38898	39773
(v) Electrical driven pump	Nos.	1474	1588
(vi) Electrified Quarters	Nos.	25459	24707
Lights		131921	131844
Fans		43217	43192
Plugs		66871	65704
(vii) Service Buildings			
Lights		96058	96807
Fans		39720	39687
Plugs		46804	48062

	2014-15	2015-16
(viii) AC plants and refrigeration's equipments		
AC Plants Nos.	2428	2462
Capacity Tons	4979	6250
Refrigerators Nos.	231	237
Capacity Ltrs.	38919	39152
(ix) Water coolers		
Nos.	647	624
Capacity Ltrs.	56734	90602
(x) Air Compressors		
Nos.	109	111
Capacity of Motors in HP	2141	1854
(xi) Welding sets		
Nos.	842	896
Capacity in Amps	112600	114320
(xii) Battery Chargers		
Nos.	862	892
Capacity in Amps	53942	59577
(xiii) Other installations, Miscellaneous viz., Geysers, Water distilling plants etc., Nos.		
No. of Towers	394	425
Wattage KW	63420	70271
(xiv) Length of Transmission line (Other than Traction) km.		
HT OH	54	38
UG	210.53	186.22
LT OH	718.70	609.33
UG	999.95	973.11
(xv) Powerline Crossings Nos.	2683	2705
(xvi) No. of lifts	89	89
(xvii) No. of Escalators	53	61

8.A. Train Lighting and Air-conditioning

(a) *Train lighting*— The Train Lighting and Air-conditioning services in coaches were maintained satisfactorily. The population of B.G. Train Lighting coaches as on 31st March 2016 are furnished as follows.

Self Generation AC Coaches Population—

Sl. No.	Type of coaches	Population
1	FAC	12
2	FACCW	63
3	ACCW	246
4	CZAC	41
5	ACCN	532
6	SWGNAC	Nil
7	SWGACCN	Nil
8	SWGFCAC	Nil
9	SWG ACCW	Nil
	Total	894

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

1	FCZACEN	Nil
2	CZACEN	Nil
3	WLRRM	6
4	CZ ACJ	10
5	CZACH	4
6	WLRRMDAC	6
7	LCZAC	25
8	LFCZAC	4
9	SWGFCAC	Nil
10	LWFAC	4
11	LWACCW	46
12	LWACCN	25
13	WACCW	9
14	WACCN	19
15	WFAC	4
16	LWLRRM	18
17	WCBAC	3
18	ACCNH	30
19	LWCZDAC	12
20	LWCBAC	4
	Total	229

Introduction of New Trains for the period from 01-04-2015 to 31-3-2016.

Nil

Augmentation (Addition/deletion) in the rake link in the composition of Express trains during the period 2015-2016

Sl. No.	Train No.	From	To	Date of Introduction	Type of AC/ TL coaches	Frequency	Total No. of coaches
1	12689/12690	NCJ	SHM	02-08-15	WGSCN-1	Weekly	23
2	22620/22619	TEN	BSP	02-08-15	ACCN-1, GSCN 1	Weekly	23
3	22601/22602	MAS	SNSI	02-08-15	ACCN-1	Weekly	22
4	16003/16004	MAS	NSL	02-08-15	ACCN-1	Weekly	22
5	16332/16331	TVC	CSTM	01-08-15	ACCN-1 GSCN-1	Weekly	22
6	22611/22612	MAS	NJP	05-08-15	ACCN-1,	Weekly	22

Introduction of Incentive Scheme

Progress of introduction of Incentive Scheme :—

Sl. No.	Position as on 31st March 2016	Name of Workshops	
		Perambur	Ponmalai
1	Total strength to be brought under incentive.	948	331
2	Total No. of men put on incentive in any month during the year.	757	301
3	Balance yet to be covered	191	49
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.	Actual staff strength is lesser than the sanctioned incentive man power. The balance will be booked when the vacancies are filled up.
5	Additional lines of production under taken to fully utilize the staff that were declared surplus in the various sections brought under the scheme.	In TLW and LTL shops modifications for passenger amenity are carried out namely IC to FL fitting PABT, Chat light fittings, Laptop charger, extra fans, emergency lights etc. in AC/EW pantry car equipments POH ed.	Nil
6	Average bonus earned per head per day.	₹ 91.31	₹ 121
7	Average increase in productivity during the year 2015-16 the period to the introduction of incentive scheme (In Units).	231 Coach/462 Units # # #	Both AC and Non-AC productivity is not increased. 1500 IOH bogies completed.

- CW and LW are Maintenance/Service shop.

- Staff are deputed to Electrical Millwright shop.

9. Financial Position-Electrical Department

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

(Figs. in Lakhs of ₹)

Demand Number and Description	Budget grant 2016-17	Final grant 2015-16
Demand No. 5		
Repairs and Maintenance of Motive Power (Electric Loco)	18,949	16,715
Demand No. 6		
Repairs and Maintenance of Carriages and Wagons- EMU, TL and AC	41,157	35,240
Demand No. 7		
Repairs and Maintenance of Plants and Equipments	25,735	21,164
Demand No. 8		
Operating Expenses-Rolling stock and Equipments	43,750	37,705
Demand No. 10.		
Operating Expenses-Fuel for Electric Traction	80,581	83,015
Demand No.11		
Staff Welfare and Amenities - Supply of Energy for Power & lighting (J 580)	2,359	1,746
Total	2,12,531	1,95,585

B. Works Budget Demand No. 16

Plan Expenditure works controlled by CEE/MAS (Electrical Departments)

(Figs. in Lakhs of ₹)

Demand Number and Description		Budget grant 2016-17	Final grant 2015-16
1	Traffic Facilities (16)	4	30.14
2	Other Electrical Works (36)	579.02	206.53
3	Traction Distribution works (37)	2,531.19	973.53
4	Workshops (42)	61.78	53.7
5	Staff Amenities (52)	156.74	123.88
6	Passenger Amenities (53)	859.87	1,809.55
7	Machinery and Plants (41)	291.08	2,422.01
8	Rolling Stock (21)	3,222.46	2,422.01
9	Other Specified Works (64)	1	16.53
10	Road Safety work (29)	2	16.53
Total		7,709.14	10.67

10. Railway Electrification Project

CRS Inspection during 2015-16

S. No.	Section	RKM	TKM	Date of Inspection	Date of CRS Authorisation
1	CBF-MTP	32.240	35.823	10-06-15	15-06-15
2	KUL-CHV	140.908	316.905	23-03-16	24-03-16
		173.148	352.728		

CRS Inspection during 2016-17

1	CHV-MAQ	89	200	11-03-17	22-03-17
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CRS Inspection during 2017-18

1	ED-KRR-TPJ	139.375	171.558	07/08-02-18	14-02-18
2	KRR-DG	71.277	75.812	26-03-18	09-04-18

497804/2020/O/OdGM/G/SR

IX. सिग्नल व दूर संचार/SIGNAL AND TELE-COMMUNICATION

- 1. General** — The over all performance of Signal and Tele-communication Installations continued to be satisfactory consistent with the increase in assets consequent on the execution of numerous planned works.
- 2. Signalling** — The distribution on Inter-locked stations and those provided with Rudimentary Inter-locking on the Railways are as under:—

Gauge As on	Inter-locked stations								Non-Inter-locked Stations		Total No. of Block Stations	
	Std. III/IIR		Std. I/IR		IBS/IBH		Rudimentary		Without Rudimentary		Block Stations	
	31st March 2015	31st March 2016	31st March 2015	31st March 2016	31st March 2015	31st March 2016	31st March 2015	31st March 2016	31st March 2015	31st March 2016	31st March 2015	31st March 2016
	2015	2016	2015	2016	2015	2016	2015	2016	2015	2016	2015	2016
BG	428	433	47	47	24	26	0	0	2	2	501	508
MG	0	0	1	1	0	0	5	5	2	2	8	8
TOTAL	428	433	48	48	20	26	5	5	4	4	509	516

(A) Summary as on 31-03-2016

Total No. of Inter-locked stations	433	+	48	+	26	+	5	=	512
Total No. of Non-Interlocked stations	—	—	—	—	—	—	—	=	4
Total No. stations closed for Gauge conversion	—	—	—	—	—	—	—	=	20
Total No. of Block stations :	512	+	4	+	20	—	—	=	536

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

2. Stations in automatic territory where emergency cross over exists and worked from the premises are included.

3. Stations in automatic territory where there are no points but provided with signals and track circuits are treated as non-block stations and hence are not included in the list of block stations.

(B) Method of Train Working.—Various systems of train working in vogue with number of block sections as on 31st March 2015 Gauge wise along with corresponding figures for 31st March 2016 are given below :—

Serial No.	System of Train Working	Broad Gauge		Metre Gauge		Total	
		31st March 2015	31st March 2016	31st March 2015	31st March 2016	31st March 2015	31st March 2016
1.	Single Line Token Instrument (No. of Block section)	5	3	8	8	13	11
2.	Tokenless Block Instrument (No. of Block section)	401	409	NIL	NIL	401	409
3.	Paper Line Clear Ticket	..	..	..	..	..	..
a.	Single Line	..	..	..	..	..	..
b.	Double Line	..	..	..	..	..	..
4.	Lock and Block Instrument (No. of Block section)	140	146	NIL	NIL	140	146
5.	Automatic Signalling in Kms.						
a.	Track Kilometres	1050.09	1056.17	NIL	NIL	1050.09	1056.17
b.	Route Kilometres	435.61	438.65	NIL	NIL	435.61	438.65
6.	Intermediate Block Signalling in Kms. (Route Kilometres)	268.70	291.13	NIL	NIL	268.70	291.13
7.	Other Systems						
a.	Continuous Track Circuiting (Other than Auto signalling)	54.90	54.90	NIL	NIL	54.90	54.90
b.	Twin Single Line (Route Kilometres)	82.68	82.38	NIL	NIL	82.68	82.38

(C) Type of Signalling as on current year 31st March 2016—

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

(i) Two Aspect Semaphore Signalling—

E-Route	..	..	..	..	..	..	..
MG-Route	..	..	..	8	..	..	8
Total	..	..	..	..	..	..	8

(ii) Multiple Aspect Upper Quadrant Signalling—

(a) D-Route	..	..	..	7	..	..	7
E-Route	..	..	..	1	..	..	1
Other (Including MG)	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	8

(iii) Multiple aspect colour light signalling—

Serial No.	Route	Total No. of stations on						Total
		Quadruple Line	Double Line	Third Line	Single Line	Twin Single Line		
'A' Route	..	2	16	4	..	..	..	22
'B' Route	..	15	138	4	21	7	..	185
'C' Route	..	..	5	..	..	..	..	5
'D' Route	..	..	74	..	122	..	..	196
'E' Route	..	..	..	..	92	..	..	92
MG	..	..	..	..	..	..	..	..
Total	..	..	..	..	..	..	..	500
iv Under Gage Conversion	..	..	..	..	20	..	..	20
Total (i)+(ii)+(iii)	..	17	233	8	235	7	..	536

D. Signalling Assests

	Total No. of Stations							Total
	A-Route	B-Route	C-Route	D-Route	E-Route	MG-Route		
1. Electronic Inter-locking - EI (SSI)	12	51	..	24	14	..	..	101
2. Route Relay Inter-locking-RR	14	14	..	11	18	..	..	57
3. Panel Inter-locking-PI or P1/RS	8	87	2	154	55	..	..	306
4. Centralised Operation by SM's Side Control (CO)	..	5	..	7	5	..	..	17
5. Lever Frame	..	..	..	..	1	8	..	9
6. Intermediate Block Signalling IBS/IBH	..	19	..	7	..	..	..	26
7. Gauge conversion	..	..	..	..	..	20	..	20
Total	31	176	2	203	93	28	..	536

(E) (i) Classification of stations as on 31st March 2016—

GAUGE	ROUTE	Special Class		'A' Class		'B' Class			'C' Class		'D' Class		Total/
		Third/ Double/ Quadruple Line	Single Line	Double Line	Single Line	Double Line	Single Line/ Twin Single Line	Single Line	Double Line	Single Line	Double Line	Single Line	
		BG		BG		BG		MG	BG		BG		
BG	A	22	---	---	---	---	---	---	---	---	---	---	22
	B	50	---	---	---	87	25	---	19	3	1	---	185
	C	5	---	---	---	---	---	---	---	---	---	---	5
	D	9	1	---	---	58	128	---	7	---	---	---	203
	E	---	1	---	---	---	92	---	---	---	---	---	93
	MG	---	---	---	---	---	---	---	---	---	---	---	0
	TOTAL	86	2	0	0	145	245	0	26	3	1	0	508
MG	S3	---	---	---	---	---	---	8	---	---	---	---	8
	TOTAL	---	---	---	---	---	---	8	---	---	---	---	8

(E) (ii) Summary of Classification of stations as on 31st March 2016—

BG	86	2	..	..	145	245	0	26	3	1	0	508
MG	..	..	..	..	..	..	8	..	..	..	..	8
Total Number of Stations												516

Total Number of Block working stations .. 516

Total Number of Stations closed for Gauge Conversion .. 20

Total .. 536

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

(Total No. of Gates as on 31st March 2016)

Sl. No.	Safety Devices provided	Special Class		'A' Class		'B 1' Class		'B 2' Class		'C' Class		Total	
		W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.
I. a	Lifting Barriers	163	313	48	111	22	52	23	60	220	772	476	1308
b	Telephone	171	315	49	116	22	54	24	61	258	835	524	1381

(Total No. of Manned Gates as on 31st March 2016).—Route Wise

Sl. No.	Route/Safety Devices provided	Special Class		'A' Class		'B 1' Class		'B 2' Class		'C' Class		Total	
		W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.	W.S.L.	O.S.L.
1.	'A' Route—												
	(a) Lifting Barriers	10	8	1	0	0	1	0	4	10	23	21	36
	(b) Telephone ..	10	8	1	0	0	1	0	4	10	23	21	36
2.	'B' Route—												
	(a) Lifting Barriers	46	104	9	24	8	12	6	14	38	104	107	258
	(b) Telephone ..	46	104	9	25	8	12	6	14	41	105	110	260
3.	'C' Route—												
	(a) Lifting Barriers	0	0	0	0	0	0	0	0	0	0	0	0
	(b) Telephone ..	0	0	0	0	0	0	0	0	0	0	0	0
4.	'D' Route—												
	(a) Lifting Barriers	73	156	25	72	6	26	12	28	100	371	216	653
	(b) Telephone ..	75	156	25	74	6	26	12	28	106	381	224	665
5.	'E' Route—												
	(a) Lifting Barriers	34	45	13	15	8	11	5	14	52	232	112	317
	(b) Telephone ..	38	47	13	17	8	12	6	14	54	244	117	334
6.	MG Route—												
	(a) Lifting Barriers	0	0	0	0	0	2	0	0	20	42	20	44
	(b) Telephone ..	4	0	1	0	0	3	0	1	47	82	52	86

(ii) Non-Inter locked Gates—

Route	Total No. as on 31st March 2016					Total
	Special Class	'A' Class	'B1' Class	'B2' Class	'C' Class	
Trunk Route and Important Main Line :						
1. 'A' & 'B' Route on B. G.	2	..	1	1	108	112
2. 'Q' & 'R' Route on M. G.	..	..	..	..	..	..
Others ..	4	7	10	10	543	574
Total	6	7	11	11	651	686

(iii) Unmanned Gates.—As on 31st March 2016

Sl. No.	Section	No. of Unmanned Gates			
(1)	Single line	..	..	..	610
(2)	Double line	..	..	..	09
	Total	..	..	..	619

Non-Inter locked and Unmanned Gates.—As on 31st March 2016

(1)	Non-Interlocked				
	A Class	..	..	..	7
	B Class	..	..	..	22
	C Class	..	..	..	608
(2)	Unmanned Gates as on 31-03-2016	..	..	..	619

H. Tele-communication Narrative Report—2015-16

(i) Exchanges

Sl. No.	Exchanges	Auto Exchanges	Inter-com.	Remarks
(1)	Total No. of Exchanges	78	47	..
(2)	Telephone Lines (in service)	14,373	2,569	..

(II) Traffic Control Including Area Control

Section Control

Details of Control Alignment/Cable

Sl.No.	Division	Section	Route Kms
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a) RE Quad Telecom Cables

1. Chennai	Villivakkam - Annanagar	3.09
	Total	3.09

b) OFC + RE Quad Cable

1. Chennai	Chennai Beach - Thirumayilai	8.66
2. Chennai	Chennai Beach - Basin Bridge	4.66
3. Salem	Erode - Salem	4.89
4. Palakkad	Podanur - Palakkad	48.26
5. Palakkad	Palakkad - Shoranur	44.49
	Total	110.96

c). OFC + 4 QUAD

1. Chennai	Chennai - Gudur	136.04
2. Chennai	Chennai Beach - Padalam	59.84
3. Chennai	Thirumayilai - Tiruvanniyur - Velachery	10.69
4. Salem	Erode - Karur - Tiruchchirappalli	137.16
5. Palakkad	Shoranur - Kozhikode - Mangalore	307.07
6. Palakkad	Mangalore - Padil	2.00
7. Thiruvananthapuram	Shoranur - Thrissur - Ernakulam	106.85
8. Thiruvananthapuram	Ernakulam-Kottayam-Kayankulam.	114.66
9. Thiruvananthapuram	Ernakulam-Allappuzha-Kayankulam.	100.34
10. Thiruvananthapuram	Ernakulam - Cochin Harbour Terminus.	7.75
11. Thiruvananthapuram	Kayankulam - Kollam	40.84
12. Thiruvananthapuram	Kollam - Thiruvananthapuram	64.30
13. Tiruchchirappalli	Villupuram - Tiruchchirappalli	177.53
14. Tiruchchirappalli	Tiruchchirappalli - Tiruvavur	49.80
15. Tiruchchirappalli	Tiruchchirappalli- Tiruchchirappalli Fort.	3.94
16. Madurai	Tiruchchirappalli - Madurai	157.39
	Total	1476.20

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

d) OFC + 6 QUAD

1 Chennai	Chennai - Tirunindravur - Tiruvallur	41.65
2 Chennai	Tiruvallur - Arakkonam	26.83
3 Chennai	Arakkonam-jolarpettai Jn	144.59
4 Chennai	Arakkonam-Renigunta	66.30
5 Chennai	Arakkonam - Chengalpattu	62.96
6 Chennai	Chengalpattu - Villupuram	102.92
7 Salem	Salem - Jolarpettai	120.04
8 Salem	Salem - Erode	54.36
9 Salem	Salem-Salem Market	6.13
10 Salem	Salem - Mettur Dam	40.25
11 Salem	Salem-Namakkal-Karur	85.12
12 Salem	Salem-Attur Minampalli	125.27
13 Salem	Erode - Coimbatore	100.14
14 Salem	Coimbatore - Mettupalaiyam	35.51
15 Salem	Podanur - Coimbatore	16.77
16 Salem	Mettupalaiyam -Udagamamandalam	45.88
17 Salem	Karur-Dindigul	73.97
18 Salem	Podanur - Kinathukadavu	24.81
19 Palakkad	Shoranur-Nilambur	65.80
20 Palakkad	Mangalore - Padil	5.70
21 Palakkad	Pollachi-Kinathukadavu	21.16
22 Palakkad	Palakkad-Pollachi	57.87
23 Tiruvananthapuram	Thrissur-Guruvayur	22.63
24 Tiruvananthapuram	Thiruvananthapuram -Nagercoil	71.05
25 Tiruvananthapuram	Nagercoil-Tirunelveli	73.29
26 Tiruvananthapuram	Nagercoil-Kanniyakumari	15.51
27 Tiruchchirappalli	Villupuram-Puducherry	37.30
28 Tiruchchirappalli	Villupuram - Vellore	150.23
29 Tiruchchirappalli	Katpadi - Vellore Cantonment	9.90
30 Tiruchchirappalli	Cuddalore - Vridhachalam	57.30
31 Tiruchchirappalli	Mayiladuthurai - Tiruvavur	37.91
32 Tiruchchirappalli	Villupuram-Cuddalore Puduchattiram	68.83
33 Tiruchchirappalli	Thanjavur - Kumbakonam	39.35
34 Tiruchchirappalli	Kumbakonam - Mayiladuthurai	31.10
35 Tiruchchirappalli	Thanjavur - Tiruvavur	54.37
36 Tiruchchirappalli	Tiruvavur-Nagore	30.37
37 Tiruchchirappalli	Nagore - Karaikkal	12.00
38 Tiruchchirappalli	Nidamangalam - Mannargudi	13.41
39 Tiruchchirappalli	Nagapattinam - Velankanni	10.32
40 Madurai	Madurai-Manamadurai-Rameswaram	161.49
41 Madurai	Madurai-Tuticorin-Tirunelveli	188.22
42 Madurai	Manamadurai-Virudhunagar	66.55
43 Madurai	Virudhunagar-Srivilliputtur - Tenkasi	122.16
44 Madurai	Tirunelveli- Tiruchendur	61.21
45 Madurai	Tirunelveli-Tenkasi	72.02
46 Madurai	Tenkasi - Shengottai	7.83
47 Madurai	Dindigul-palani	58.30
48 Madurai	Palani - Pollachi	62.90
49 Madurai	Punalur - Kollam	44.98
	TOTAL	2904.56

e). Railway 4 QUAD alone

1. Tiruchchirappalli	Tiruvavur - Karaikudi	148.99
	Total	148.99

f). Railway 6 QUAD alone

1 Chennai	Pattabiram East Siding - Pattabiram East Cabin	2.03
2 Palakkad	Padil - Panambur	16.71
3 Tiruchchirappalli	Puduchattiram -Mayiladuthurai	54.96
4 Salem	Minampalli - Attur	13.61
5 Madurai	Tiruchchirappalli - Karaikkudi	89.35
6 Madurai	Karaikkudi-manamadurai	61.16
	Total	237.82

CONTROL SECTIONS

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

BSNL PHONE AT STATIONS

Provision of BSNL phones at all stations.

S.No.	Division	Number of Stations Provided with BSNL Phones
1.	Chennai	104
2.	Salem	79
3.	Palakkad	65
4.	Thiruvananthapuram	71
5.	Tiruchchirappalli	87
6.	Madurai	111
Total		517

RAILNET CONNECTIVITY

S.No.	Connectivity	No. of locations Provided with Railnet
1.	LAN connectivity	72 Nodes
2.	Internet Gateway Connection	90 MB + 10 MB through RCIL

Division	PRS Locations	UTS Locations
Chennai	46	129
Salem	22	78
Palakkad	33	60
Thiruvananthapuram	62	72
Tiruchchirappalli	33	109
Madurai	41	117
Total	237	565

III – PASSENGER AMENITIES

S.No.	Telecom Items	Numbers
1.	PC based PA system	84
2.	Clocks [QUARTZ]	GPS clocks provided at 113 Stations
3.	Coach Guidance System	41
4.	Train Display Board	105
5.	Conventional PA System	256
6.	Touch screens	84
7.	POET	34

IV – SATELLITE PHONES—9

V – FOIS ,CMS & COIS

1.	FOIS	144 Locations
2.	COIS	53 Locations
3.	CMS	24 Locations
4.	V – SAT Connectivity	9 Locations

VI – VOICE RECORDER IN CONTROL OFFICE

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

VII – CUG PHONES

8907 CUG SIM cards of M/S. AIRTEL are provided for Officers & Staff in all Divisions, Headquarters office, project and Construction wing.

VIII – VIDEO CONFERENCE

1. Video conferencing arrangements in Headquarters and all divisions is connected through OFC Ethernet media with ring protection.
2. CRB with GMs Video Conferencing system is connected through OFC MPLS Network between Chennai and New Delhi.
3. Video Conferencing arrangements provided between ML/Railway Board to CSTE & CCE.

PERFORMANCE OF TELECOMM CIRCUITS

S. No.	Name of The Circuit	2014–15 Performance in %
a.	Average Efficiency of Control Circuits on Railway OFC Circuit	99.92
	Operating	99.98
b.	Average Efficiency of Control Circuits on Railway Quad Cable Circuit	99.98
	Operating	99.99
c.	Average Efficiency of Control Circuits on Railway RE Cable Circuit	99.52
	Operating	99.71
d.	Average Efficiency of Control Circuits on (Railway OH Link) Circuit	No Circuit
	Operating	No Circuit
e.	Average Efficiency of Control Circuits (BSNL OH Link) Circuit	No Circuit
	Operating	No Circuit

3. MATTER RELATING TO TELE-COMMUNICATION WORKS

Sl. Nos.	Description of Work	Year of Programme	Estimated cost ₹ (in lakhs)	Physical progress upto 31st March 2016	Remarks
OFC WORKS					
1.	Vriddhachalam - Salem (OFC and STM-1 with MUX)	2010-11	478.61 DF3	95%	Work is in progress.
2.	Vriddhachalam - Cuddalore Jn. (OFC and STM-1 with MUX)	2011-12	222.34 DF3	100%	Work is in progress.
3.	Salem - Coimbatore - Provision of 6 Quad Cable in lieu of Re Cable 153 Kms.	2012-13	947.18 DRF	98%	Work is in progress.
4.	Villupuram Jn. - Thanjavur Jn. - OFC work (192 Kms)	2012-13	770.86 DF3	70%	Work is in progress.
OTHER SPECIFIED WORKS					
1.	Southern Railway - Integrated Security System at TVC, ERS, MDU, CBE, TPJ, CLT & MAQ. (7 stations)	2010-11	3050.09 CAP	—	Work is in progress.
2.	Southern Railway - Integrated Security System at MAS, BBQ, TRL, MSB, MS, MBM, & TBM. (7 stations)	2010-11	1110.40 CAP	—	Completed

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.	Law No.	Name of Works	Estimate D Cost	Sanction ED in the year	Comple ted in the year	Approx Financial Exp. upto 31-03-2016	Physical progress upto 31-03-2016	Remarks
1	1	2	5	3	9	10	11	12
1.	699	Madras Beach-Gummidipundi Auxiliary Warning system (TPWS)	535437 DF(4)	98-99	2008-09	100%	100%	1. Work completed and commissioned including upgradation for 81 coaches on 02-05-2008. 2. Handedover to Division on 06-02-13. 3. Final acceptance certificate issued.
2.	700	Chennai-Ambattur Audio frequency track circuit in lieu of conventional DC Track Circuit on slow lines (MAS-ABU Slow lines.	72939 DRF	2002-03		86%	90%	1. Work completed and commissioned on VLK-PAB section (15 Km). 2. Construction of Hut at PER, cable laying works and installation of AFTC equipments are in progress in balance section of VPY-VLK section (5 Km.).
3.	701	Basin Bridge-Ambattur & Ambattur-Pattabhiram-Audio Frequency Track circuits in lieu of conventional DC Track Circuits. (i) BBQ-ABU Section Fast lines. (ii) ABU-PAB Section slow lines and Fast Lines.	194116 DRF	2002-03		101%	90%	1. Work completed and commissioned on VLK-PAB section (15 Km). 2. Construction of Hut at PER, cable laying works and installation of AFTC equipments are in progress in balance section of VPY-VLK section (5 Km.).
4.	702	Ernakulam-Shoranur-Palghat Erode- Chennai and Bangalore-Jolarpettai -Chennai-Anti collision Device.	752400 DF(4)	2003-04				1. The abstract cost is Rs. 75.24 Crores. Detailed estimate for Rs. 205.84 Crores has been sent to Railway Board on 16-01-2009 Directives awaited.
5.	703	Ennore-Gummidipundi- Replacement of Conventional DC Track Circuit by Audio Frequency Track Circuit including Replacement of sigg. cables. (32 Km.)	115349 DRF	2004-05		83%	45%	1. Contract awarded. 2. AFTC materials received for two sections. 3. Signalling works and Construction of 2 huts (out of 9 huts) completed in KVP-GPD section (6 Km.) Work in Progress in balance section.

Sl. No.	Law No.	Name of Works	Estimate D Cost	Sanction ED in the year	Comple ted in the year	Approx Financial Exp. upto 31-03-2016	Physical progress upto 31-03-2016	Remarks
1	1	2	5	3	9	10	11	12
6	704	Shoranur-Ernakulam Alleppey-Kayankulam-Trivandrum-Block Proving Axle Counter in Interlocked Sections (317 Km.-39 BS).	207868 DF(4)	2004-05		91%	92%	1. Work commissioned in 36 block sections out 39. 2. Out of balance 3 block sections, work completed in one B/S and in remaining 2 B/s cable laying is in progress.
7	705	Trivandrum-Kanniyakumari -Block Proving by Axle Counter in Panel/Route Relay Interlocked Section (87 Km.-5 Block Sections)	25204 DF(4)	2004-05		64%	30%	1. Detailed estimate sanctioned. 2. Contract awarded and cable laying work is completed. 3. The work in CAPE-NCJ Section was commissioned on 20-12-10 and work in progress at balance sections.
8	705	Villupuram-Tiruchchirappalli-Dindigul and VM-PDY Block sections, Block Proving Axle counter in Panel/Route Relay Interlocked Sections (270.14 Km.) (34 Block Sections).	139568 DF(4)	2004-05	2014-15	111%	100%	Commissioned
9	707	Villivakkam, Ambattur and Avadi-Replacement of signalling Gears by Route Relay.	161261 DRF	2008-09	2014-15	93%	100%	Commissioned. 1. Villivakkam - 30-03-2014 2. Ambattur - 28-08-2014 3. Avadi 31-03-2015
10	708	Chennai Beach-Villupuram, Chennai Beach-Tirumayilai-Light Emitting Diode Signals (Phase-II)	26665 DF(4)	2008-09	2015-16	65%	100%	Commissioned
11	709	Perambur-Tiruvallur Ring Main arrangement and replacement of power Cable (36.03 Km.).	35416 DF(4)	2008-09	2015-16	110%	100%	Work completed and commissioned.
12	719	Chennai Area- Public address system in suburban trains (66 rakes).	61376 (DF 1)	2009-10	Supplementary	84%	70%	1. Work is progress and is being carried out by CEE/MAS.
13	711	Vijayamangalam & Totiyapalayam-REplacement of Signalling with Electronic Interlocking.	64206 DRF	2009-10	2015-16	101%	95%	1. Totiyapalayam commissioned on 16-10-2015. 2. Vijayamangalam commissioned on 16-12-2015.
14	712	Karamadai & Mettupalayam-Replacement of Multi Aspect upper Quadrant Signalling Gears by Electronic Interlocking.	69308 DRF	2009-10	2015-16	114%	100%	Commissioned
15	713	Replacement of MAUQ Signalling by Electronic Interlocking at Virarakkiyam.	43165 DRF	2009-10		81%	40%	1. Contract for outdoor work sawarded on 09-04-2015. 2. Contract for indoor works awarded on 18-11-2015. 3. Outdoor work and S&T building completed. Indoor materials has been received and work is in progress.
16	714	Salem Division-Salem-Mettur Dam-Provision of OFC (40 Kms.0-5 stations & 6 Quad Cable between Omalur and Mettur Dam (33 Kms.)	37659 DF(4)	2009-10	2015-16	78%	100%	Work completed.

Sl. No.	Law No. 2015-16 PB 2015-16	Name of Works	Estimate D Cost	Sanction ED in the year	Comple ted in the year	Approx Financial Exp. upto 31-03-2016	Physical progress upto 31-03-2016	Remarks
1	1	2	5	3	9	10	11	12
17	715	Pallakkad Division Mankara, Mannanur, Ottappalam, Parli & Lakkitti-Repl. of Panel Interlocking arrangement by Route Sting type Panel Interlocking (B-Route).	163705 DRF	210-11		49%	20%	1) Detailed estimate is sanctioned on 07-12-2011 for Rs. 1637.04 Lakhs by CSTE/Plg. & Projects/MAS. 2) Gm sanctioned the revised detailed estimate drawn for provision of IBS in lieu of replacement of signalling gears at Mankara. 3) Contract awarded on 11-06-14 for PLL and outdoor work at 4 stations. 4) Parli work is completed and commissioned on 13-10-2015. 5) Tender for MNY combined with indoor works tender at MNUR, OTP & LDY. will be opened on 29-04-2016. 6) Approved by P. Way plans for MNUR & MNY are required to prepare SIP. 7) Division assistance required for construction of building at OTP, LDY, MNUR & MNY.
18	716	Train Management System on Chennai Beach Sullurupettai, Chennai Beach-Velacherry, Chennai Beach Chengalpattu & Chennai Central Arakkonam Sections-Southern Railway.	385800 DF(3)	2010-11		..	..	1) The detailed estimate for Rs. 38.58 Crores is sanctioned on 06-09-2011. 2) The work is frozen as Board's instructions vide Letter No. 2011/SIG/WP/15/2/PT dated 12-11-2012.
19	717	BBQ-AJJ Section (Slow Line-Provision of Train Protection Working System (TPWS).	308142 DF (4)	2010-11		58%	60%	1) Modified Estimate is sanctioned on 09-11-2011 for Rs. 30181.42 Lakhs based on revised guidelines received from RDSO/Rly. Board. 2) LOA issued on 10-04-2014. 3) Trials completed in VLK-ABU section and the same has been approved by RDSO. 4) Out of 68 Km in BBQ-AJJ section work completed in 31 Km (VLK-TRL section) during 2015-16. 5) Balance work in BBQ-VLK and TRL-AJJ sections (37 Km), cable laying and installation of TOWS equipments are in progress. Targetted for commissioning by June, 2016.
20	718	Trivandrum Division-Replacement of signalling assets by panel Interlocking at Angamali for Kaladi.	26458 DRF	2010-11		47%	20%	Work is being executed by S & T Construction.
21	719	Salem Division VRI-SA Section-Provision of Optic Fibre Cables and STM-1 with MUX (140 Km).	47861 DF (3)	2010-11		94%	80%	1) Detailed estimate is sanctioned for Rs. 478.61 Lakhs by CSTE/Plg. & Proj/MAS on 08-09-210. 2) Contract has been awarded on 16-05-2014 for indoor equipments. Out of 139 Km. 3) Cable Laying completed for 125.17 Kms. 4) Indoor equipment installation work in progress. Trenching 125.47 Kms. HDPE duct laying 125.17 Kms. Backfilling 125.17 kms. completed Splicing 41 out of 47 completed.
22	720	Arakkonam-Jolarpettai-Train Protection & Warning system-150 RKM.	1123200 DF(4)	2012-13		..	..	1. As per Railway Board's Letter No. 2011/sig/TPWS/CORSS dated 19-05-2012, this work will be executed by Indian Railway Project Management Unit (IRPMU) at New Delhi.

Sl. No.	Law No.	Name of Works	Estimate D Cost	Sanction ED in the year	Comple ted in the year	Approx Financeal Exp. upto 31-03-2016	Physical progress upto 31-03-2016	Remarks
1	1	2	5	3	9	10	11	12
23	721	Chennai Beach-Tambaram-Chengalpattu-Train Protection & warning system-60 RKM.	633876 DF(4)	2012-13		..	..	1. As per Railway Board's Letter No. 2011/sig/TPWS/CORSS dated 17-03-2015, the work has been transferred back to Southern Railway from Indian Project Railway Project Management Unit (IRPMU) 2) S T Detailed Estimate sanctioned on 27-01-2016 by GM for Rs. 63.39 Crs. 3) Tender schedule prepared and technical eligibility criteria submitted to GM for approval sa as to incorporate in tender document to float the tender.
24	722	Tiruchchirappalli Division- Replacement of Panel Interlocking at Tiruchchirappalli Fort Station.	37659 DRF	2011-12	2015-16	81%	100%	Commissioned on 08-09-2015.
25	723	Salem Division- Replacement of Signalling gears by Route Setting Type Panel Interlocking (4 stations) (D-Route) in KRR-TPJ Section. At MMH, PGN, EL and MTNL Stations.	160881 DRF	2011-12		57%	20%	1) Detailed estimate is sanctioned on 17-02-2012 for Rs. 15.05 Crores for EI with Warm stand by only. Revised estimate for Rs. 1608.81 Lakhs duly including Hot Standby vetted in June 2014. 2) Contract for indoor and outdoor works has been awarded. Outdoor work at MMH is completed and is progress in balance stations. S & T building completed. MMH targeted for completion by June 2016.
26	724	Lalapet Replacement of Multi Aspect Upper Quadrant Signalling by Panel Interlocking.	42336	2012-13		60%	30%	1) Revised estimate for Rs. 423 Lakhs duly including hot Stand by is sanctioned on 27-05-2014. 2) Contract for Outdoor works has been awarded on 09-04-2015. 3) Building work completed. 4) Contract for indoor works awarded on 18-11-2015. 5) S & T building completed and work is in progress.
27	725	Walaja Road-Jolarpettai & Chennai Beach-Velachchery-Remote Terminal Unit with Network arrangement.	96861 DF(3)	2012-13		94%	80%	1) Out of 150 RTUs, 106 RTUs have been commissioned along with networking 2) Balance 44 RTUs have been Commissioned in stand alone mode for which networking will be completed by April 2016.
28	726	Salem Division- Replacement of Universal Axle Counter with Single Section Digital Axle Counters (5 Intermediate Block Sections).	70851 DRF	2012-13		3%	..	1) Detailed estimate is sanctioned. 2) Tender has been opened on 30-11-2015 and under finalization.
29	727	Mayanoor- Replacement of Multi Aspect Upper Quadrant Signalling by Panel Interlocking.	41553 DF(3)	2012-13		68%	50%	1) Revised estimate for Rs. 415.53 Lakhs duly including Hot Stand by is sanctioned on 27-05-2014. 2) Building work completed. 3) Contract for outdoor works has been awarded on 09-04-2015. 4) Contract for indoor works awarded on 18-11-2015. 5) Outdoor work and S & T building completed. Indoor materials has been received and work is in progress.
30	728	Chennai Division Replacement of point Machines.	36856 DRF	2012-13	..	60%	75%	1) Detailed estimate has been sanctioned on 05-04-2013. 2) 300 Nos. of point machines have been replaced.

Sl. No.	Law No. 2015-16 PB 2015-16	Name of Works	Estimate D Cost	Sanction ED in the year	Comple ted in the year	Approx Financial Exp. upto 31-03-2016	Physical progress upto 31-03-2016	Remarks
1	1	2	5	3	9	10	11	12
31	729	Villupuram- Thanjavur- Optic Fibre Cable (192 Kms.).	77087 DF(3)	2012-13	..	78%	70%	1) Detailed estimate has been sanctioned for Rs. 770.86 Lakhs. 2) Contract has been awarded. 3) 96.26 Kms. of cable trenching and HDPE pipe laying work and OFC laid for 86.28 Km. in VM-MV Section and 70 Kms. of trenching and HDPE laying & 70 Km. OFC laying completed for TJ-MV section.
32	730	Salem-Coimbatore-6 Quad Cble in lieu of RE Cable (175 Kms.).	94719 DRF	2012-13		103%	90%	1) Detailed estimate has been sanctioned on 27-09-2012 for Rs. 947.18 Lakhs. a) Contract has been awarded on 08-06-2013. b) Trenching 6 Quad Cable laying & back filling is completed. Work completed in 20 Block sections out of 21. Work is in progress on the Cauvery Bridge in ED-CV block section.
33	731	Southern Railway- Integrated Power Supply (131 left over Stations- MAS-35, SA-47, PGT-49)	167200 DF (4)	2013-14		2%	..	The scope of the work is provided IPS at 131 stations. Finance agreed to vet the indent for 27 IPS stating that the Budget Grant for 2015-16 is only for 27 IPS Stores Tender for procurement of 27 No. of IPS has been opened on 14-12-2015 and TCM under progress. The BG for 2015-16 of Rs. 3.0 Cr. was completely blocked while vetting 27 IPS indents against requirement of 131 IPS. But due to non-supply of the material the full amount of Rs. 3.0 cr. had to be re-appropriated.
34	732	Paighat Division-Dual Detection by single Section Digital Axle Counters at track circuits and provision of each leakage detector.	40882 DF(4)	2013-14		50%	5%	1) Detailed estimate sanctioned by CSTE/ Plg. & Proj./MAS on 22-04-2014 for Rs. 408.82 Lakhs. 2) Contract awarded in February 2016. Work has started supply of digital axle counter is through stores contract for which PO is under vetting.
35	733	Chennai Division- Replacement of Electro Mechanical Signalling arrangements-I Station- B Route and 3 Stations E-Route.	141361 DRF	2013-14		..	..	1) Detailed estimate has been sanctioned by CSTE/Plg. & Proj./MAS on 01-06-2015 for Rs. 14.14 Crs. 2) Division has floated tender for construction on S & T accommodation which was opened on 29-10-2015 and is under TCM. Earlier it was discharged two times. 3) S & T Tender floated on 30-03-2016 to be opened on 10-05-2016.
36	734	Chennai Beach-Villupuram, Arakkonam-Jolarpettai & Chennai-Gudur-Backup power supply Auto Sections.	189923 DF(4)	2014-15		..	..	1) Detailed estimate sanction on 04-11-2015 2) Tender opened on 28-01-2016. Brief note vetted on 21-03-2016 and TCM under progress.
37	736	Velliyannai, Palaiyam & Eriodu-Repl. of panel interlocking with Electronic Interlocking (D-Route)	126336 DRF	2015-16		..	..	Vetted electrical sub estimate received from SA Division on 17-03-2016. Detailed estimate has been sent to finance for vetting on 01-04-2016.
38	737	Doddampatti, Lokur & Tinnapatti-Repl. of panel interlocking with electronic interlocking (D-Route).	128765 DRF	2015-16		..	..	S & T sub estimate is ready. Sub-estimate of engineering portion of the work from Salem Division has not been received. On receipt of the same detailed estimate will be sent for vetting.
39	738	Jolarpettai-Repl. of Route Relay Interlocking and A, B & Cabins.	154266 DRF	2015-16		..	..	Site survey is under progress for preportion of detailed esmate. Waiting for P. Way plan and sub-estimates from Chennai Division.

Sl. No.	Law No.	Name of Works	Estimate D Cost	Sanction ED in the year	Comple ted in the year	Approx Financial Exp. upto 31-03-2016	Physical progress upto 31-03-2016	Remarks
1	1	2	5	3	9	10	11	12
40	739	Tiruchchirappalli-Karai kudi Manamadurai-Optic fibre Cable communication arrangement incl. SDH and PD-MUX with redundant power supply arrangement (151 RKM).	63200 DF(4)	2015-16		..	..	1) Detailed estimate is sanctioned on 06-01-2016. 2) Indent for long lead items i.e. OFC cable was sent to Finance for vetting Finance has observed that funds are not sufficient for procurement of even OFC.
41	740	Ernakulam Jn.- Ernakulam Town & Trivandrum Central-Dual dtection arrangement for berthing track and Trivandrum Division- redundancy for track detection at vulnerable locations.	36505 DF(3)	2015-16		..	..	1) S & T estimate is ready. Vetted Engg. and Electrical sub estimates from Division is yet to be received. 2) CSTE/MAS approved MSDAC for ERN, ERS & TVC.
42	741	Madurai Division-Integrated Power Supply with Solar Panel (23 Stations).	50421 DF(4)	2015-16		..	..	scope of the work is provided IPS with solar panel at 23 stations for which detailed estimate is sanctioned on 15-12-2015. Indent for procurement of IPS will be placed as per Budget Grant. Works tender for supply of solar panel, installation of IPS and solar panel and provision of earthing and associated works to be floated.
43	742	Chennai Division- Improvement of Data Logger and RTU Network.	43900 DF(3)	2015-16		..	..	Detailed estimate sanctioned on 17-02-2016 by CSTE/P for ₹ 4.39 Crs.
44	743	Podanur-Palakkad-Repl. of obsolete paper insulated quad communication cable with 6 quad cable (RE) (49 RKM).	39783 DRF	2015-16		..	..	1) Detailed estimate is sanctioned on 11-12-2015. 2) For outdoor work, tender floated and opened on 21-01-2016. Brief vetted note vetted on 29-03-2016 and under TCM.

Progress of works – costing below Rs. 25.5 crores (Law Book 2014–15)

1	1111	Podanur-Palakkad-Repl. of obsolete paper insulated quad communication cable with 6 quad cable (RE) (49 RKM).	17269 DRF	2009-10	2015-16	74%	100%	Commissioned.
2	1112	Chennai Division- Replacement of aged and worn-out signalling gears by panel Interlocking at Sri Venkatesaperumal- rajapuram.	15312 DRF	2009-10	2012-13	92%	100%	Commissioned.
3	1113	Chennai Division- Arakkonam-Chengalpattu Provision of BPAC in PI/RRI Sections-5 Block Sections.	16781 DF(4)	2009-10	2012-13	120%	100%	Commissioned.
4	1114	Chennai Division- Replacement of aged worn out Route Relay Interlocking by Route Relay Interlocking at Chennai Sub-Urban Terminal.	15440 DRF	2010-11	2012-13	66%	100%	Commissioned.
5	1120	Chennai Division- Provision of Invertors at stations for signals to avoid blanking of signal Phase-I.	22126	2012-13	2015-16	71%	65%	Commissioned.

Sl. No.	Law No.	Name of Works	Estimate D Cost	Sanction ED in the year	Comple ted in the year	Approx Financial Exp. upto 31-03-2016	Physical progress upto	Remarks
1	1	2	5	3	9	10	11	12
6	1121	Chennai Division- Dual Detection track circuit for improvement of track circuit with multi section digital axle counters at RPM, PRES and VPY.	24847 DF(4)	2012-13		79%	20%	1) Detailed estimate is sanctioned by CSTE/Project/MAS on 04-03-2014. 2) All physical works completed and system mode to function on trial for the past two months. 3) Approved SIP, TC received. 4) SWR under checking and work likely to be commissioned by April 2016.
7	1152	Replacement of obsolete SDH equipment with provision of NMS and encashment of primary muxes in SRR-CLT Section.	4142 DRF	2009-10	2014-15	62%	100%	Commissioned
8	1162	Provision of Redundancy for track detection using multi section digital axle counter (MSDAC) at Kozhikkode (CLT) Station.	9862 DF(4)	2013-14		14%	..	Work transferred to CSTE/Projects in June 2015. CSTE approved to provide MSDAC for berthing tracks alone. Detailed estimate sanctioned in December 2015 and tender will be floated.
9	1165	Karur-Dindigul & Omalur-Mettur Dam- Block proving by Axle Counters in Panel/ Route Relay Interlocked Sections (7 Block Sections).	24749 DF(4)	2011-12	2015-16	92%	100%	Commissioned
10	1179	Golden Rock-Thanjavur-Block proving by Axle Counter in Panel/Route Relay Interlocked Sections (47 Km.-5 Block Sections).	21423 (DF(4)	2004-05	2012-13	124%	100%	Commissioned
11	1180	Tiruchchirappalli Division- Provision of OFC and STM-1 with MUX at Vridhachalam-Cuddalore Section Provision of OFC and STM1 with MUX-57 Kms.	22234 DF(3)	2010-11	2015-16	73%	100%	Commissioned
12	1191	Trivandrum Division- Karukutty Replacement of wornout sigg. Gears by Route Setting Type Panel Interlocking.	18263 DRF	2008-09		116%	80%	1) S & T main estimate for Rs. 182.63 Lakhs Sanctioned by CSTE/P/MAS on 15-10-2009. 2) All outdoor work completed. Building plastering, door/window fixing & electrification is holding up completion of S&T indoor works. 3) Work will be commissioned in a month's time after completion of S&T accommodation with electrification.
13	1192	ERS-SRR Section-OFC along with SDH ADD/Drop Muxes (STM-I), Digital Primary D/I Muxes and other associated equipments.	9611 DRF	2009-10	2014-15	76%	100%	Commissioned.
14	1197	Trivandrum Division- Replacement of SM's Slide operation of Signals & Points by Panel Interlocking at PNQ Station.	21264 DF(4)	2011-12		6%	..	Revised estimate will provision of PI and S & T building (2rooms only) has been vetted and put up to AGM for sanction. S & T tender was short closed. New tender will be floated with the provision of PI after sanction of the estimate.
15	1104	Chennai Division- Improvement of existing Data Logger & RTU Net work on ASTE/AJJ Section. (To be executed along with PB 742 of 2015-16).	9761 DF(4)	2014-15				Detailed estimate sent to finance for vetting.
16	1207b	Chennai Division- Provision of Remote Terminal Unit (RTUs) in PYA-GDR Section.	3929 DF(4)	2015-16				Detailed estimate under preparation.

Sl. No.	Law No.	Name of Works	Estimate Cost	Sanction ED in the year	Completed in the year	Approx Financial Exp. upto 31-03-2016	Physical progress upto 31-03-2016	Remarks
1	1	2	5	3	9	10	11	12
Progress of works Road safety works 2015-16)								
1	74	Palghat Division-Manning (3 Nos.) & interlocking (25 Nos.) of LCs. PGT Division-19 LCS. SA Division-6 LCS.	56190 S. Fund	2003-04	2011-12	72%	100%	Commissioned.
2	75	Tiruchchirappalli & Madurai Divisiona Manning (9 Nos.) and Interlocking (58 Nos.) of Level Crossings. TPJ Division - 13 MDU Division- 45	111755 S. Fund	2003-04		86%	100%	Commissioned.
3	76	Tiruvandrum Division-Manning (9 Nos.) & Interlocking (50 Nos.) of LCs.	95410 S. Fund	2003-04	2011-12	99%	100%	Commissioned.
4	77	Palghat & Salem Divisions Interlocking of level Crossings (23 Nos.) and Manning of Unmanned Level Crossings. (6 Nos.) PGT Divn. - 15 LCS. SA Divn. - 8 LCS.	52075 S. Fund	2002-03	2011-12	84%	Interlocking 100%	Commissioned.
5	82	Thirunanthapuram Division Interlocking of Level Crossing Gates (13 Nos.)	46371 S. Fund	2012-13		54%	20%	1) Detailed estimate is sanctioned. 2) Work awarded and is in Progress. 3) Signalling Plans are approved for all LCs.
6	83	Tiruchchirappalli Division Tiruchchirappalli-Villupuram Interlocking of Level Crossings (10 Nos.) and remote terminal units (RTU) to mid section Interlocked Level Crossing	38000 S. Fund	2012-13		37%	..	Contract has been awarded on 24-04-2015.
7	85	Salem Division-Interlocking of Level Crossing Gates (18 Nos.)	56959 S. Fund	2013-14		..	..	Estimate sanctioned.
8	86	Salem Division-Interlocking of Level Crossing Gates (19 Nos.)	60788 S. Fund	2013-14		..	..	Estimate sanctioned.
9	87	Southern Railway-Soalr Panel power supply arrangements for Mid-Section Level Crossing Gates.	74512 S.Fund	2013-14		..	..	1) Detailed estimate is sanctioned on 04-08-2015. 2) Indent for cables and relays will be submitted to finance for vetting. 3) Works tender for supply and installation of solar panel, inverter, battery and charges and associated cable laying to be floated.
10	88	Trivandrum-Ernakulam-Trichue-Improvements to communication arrangements at all level crossings (395 Km.)	65457 S. Fund	2013-14		4%	..	Detailed estimate is sanctioned on 21-12-2015. Indent for long lead items (i.e.) 6 quad cable has been sent to Finance for vetting, Procurement of cable will be completed in 2016-17.
11	89	Shoranur-kozhikode-Mangalore-Improvements to communication arrangements at all level crossings (85 Km.)	61460 S.Fund	2013-14		5%	..	Detailed estimate is sanctioned on 11-12-2015. Tender to be floated. Indent for long lead items (i.e.) 6 quad cable has been sent to Finance for vetting, PFunds sufficient to procure cables in 2016-17.

Sl. No.	Law No.	Name of Works	Estimate D Cost	Sanction ED in the year	Comple ted in the year	Approx Financial Exp. upto 31-03-2016	Physical progress upto	Remarks
1	1	2	5	3	9	10	11	12
12	91	Ernakulam-Alappuzha-Kayankulam Interlocking of Level Crossing Gates (42 Nos.)	270591 S.Fund	2014-15		3%	..	1) Detailed estimate sanctioned for Rs. 27.05 crores. 2) Ot of 42 Gtes, LOA issued for 09 Gates on 15-12-2015 and work is in progress. 3) LC gates in AMPA-HAS section will be completed along with doubling of track by S & T Construction.
13	92	Chennai Division-Interlocking of Manned Level Crossing Gates (26 Nos.)	125204 S.Fund	2014-15		5%	..	Detailed estimate sanctioned on 26-09-2015. Tender opened on 28-01-2016. Brief note vetted on 04-03-2016 and TCM in progress.
14	93	Chennai Division-Interlocking of Level Crossing Gates (8 Nos.)	36145 S.Fund	2014-15		..	..	Detailed estimate sanctioned on 11-11-2015. Tender floated and opened on 28-01-2016. Brief note vetted on 04-03-2016 and TCM in progress.
15	95	Chengalpattu-Arakkonam & Chennai Egmore-Villupuram- Interlocking of Level crossings (Gate No. 19,21,35, 43, 44, 47, 48 & 56, 57, 79 (10 Nos.)	32981 S.Fund	2014-15		..	..	Detailed estimate sanctioned on 23-03-2016. Tender will be floated TDC : 5 LC gates by March, 2017.
16	96	Trivandrum Division- Interlocking of Level Crossing Gate No. 63, 51, 39, 88, 26.	26366 S.Fund	2015-16		..	..	S & T Estimate is ready. Sub estimate for Engg. & Electrical works are yet to be received from division.
17	185	Palghat Division-Laying of Power Cable to Mid-Section LCs from SRR to NII (Non-RE area 5 LCs)	25099	2014-15		..	..	Estimate sanctioned.

Progress of Traffic facilities works – Pink Book (Controlled by S & T Projects 2014-15)

1	49	Nagercoil-One Single face Platform one Stabling Line and simultaneous despatch and reception facility from Trivandrum side.	70600 DF(3)	2007-08	2009-10	37%	100%	Commissioned.
2	50	Chennai Beach-Additional platforms.	83410 DF(3)	2007-08	2014-15	23%	95%	Commissioned.
3	52	Kanniyakumari-Additional Platforms and Extension of Platforms.	37700	2007-08	2010-11	39%	100%	Commissioned.
4	53	Valliyur-Aralvoimozhi-New Three Line Crossing Station at N. Panakudi.	59741 DF(3)	2007-08	2010-11	15%	100%	Commissioned.
5	56	Salem Division-Tiruppur-Direct reception & Dispatch for Goods Line.	11962 CAP	2008-09		50%	20%	1) Detailed estimate for Rs. 119.62 Lakhs approved by CSTE/P&P sent to SA Division for inclusion in the main estimate and sanctioned on 30-11-2010. 2) Contract for S & T portion awarded. The S & T contractor has refused to carry out the work as the rates are not workable. 3) Signalling plan was approved based on latest P. Way plan and CRS application was sent. CRS reply is pending because P. Way plan has been modified once against wherein one trap point on the shunting neck has been shown deleted from the plan without any approval.

Sl. No.	Law	Name of Works	Estimate D Cost	Sanction ED in the year	Comple ted in the year	Approx Financial Exp. upto 31-03-2016	Physical progress upto 31-03-2016	Remarks
1	1	2	5	3	9	10	11	12
6	59	Provision of 2 Line Crossing Station at Melapalayam Station (MP) in TEN-SLGM) Section.	76900 DF(3)	2010-11		..	..	1) Estimate is received duly catered for hot stand by Electronic Interlocking System and sent to Sr. DSTE/TVC for inclusion in the main estimate. 2) Tender schedules are under preparation. 3) Construction of Station Building is yet to start. 4) The revised P. Way plan is received.
7	63	Salem Division : Augmentation of line capacity of saturated sections.- B o m m i d i - L o k u r , Vijayamangalam-Uttukuli & Vanjipalayam-Somanur-IBS.	78405 DF(3)	2015-16				Vetted sub-estimate from Salem Division was received on 18-03-2016. Detailed estimate has been submitted to Finance for vetting on 21-03-2016.

Progress of Traffic facilities works – LAW (Controlled by S & T Projects)

1	9	Madurai Division- Milavittan Provision of sand Hump.	3500 DF(3)	2009-10	2013-14	80%	100%	Commissioned.
2	12	Palghat Division-Extension of Relay room for provision of signalling arrangements in connection with provision of calling-on signals below starter signals at MDKI.	4970 DF(3)	2008-09	2013-14	145%	100%	Completed
3	14	Palghat Division-Palghat-Shoranur Section-Provision of an IBS on the UP Line between PGT-PLL.	11183 DF(3)	2010-11	2013-14	151%	100%	Completed.
4	15	Palghat Division-Palghat-Shoranur Section-Provision of an IBS on the Down Line between PGT-PLL.	11183 DF(3)	2010-11	2013-14	154%	100%	Completed.
5	16	Palghat Division-Parli-Provision of cross over at PGT end & Conversion of Road 4 into common loop.	6921 DF(3)	2010-11		5%	..	Commissioned.
6	23	Salem Division Provision of IBS-SA-VRPD at Neykkarapatti and DC-MVPM at KLPT.	28666 DF(3)	2009-10		107%	50%	1) Work Completed and Commissioned. between DC-MVPM on 25-09-2015. 2) Work between SA-VRPD completed and commissioned on 28-11-2015.
7	25	Salem Division Salem-Erode Section : Conversion of DVBH into IBS (MagudanChavadi-Virapandy Road).	17732 DF(3)	2009-11		107%	100%	Work Completed and Commissioned.
8	30	Trivandrum Division Kollam-Trivandrum Section-Provision of IBS at Chirayinkeezh between KVU-MQU.	16862 DF(3)	2010-11	2013-14	71%	100%	Completed.
9	31	Kayankulam-Kollam Section-Provision of IBS between PRND-STKT.	14858 DF(3)	2010-11	2014-15	148%	100%	Completed.

Sl. No.	Law No.	Name of Works	Estimate D Cost	Sanction ED in the year	Comple ted in the year	Approx Financial Exp. upto 31-03-2016	Physical progress upto	Remarks
1	1	2	5	3	9	10	11	12
10	32	Thrisur-Aluva Section- Provision of IBS with Inter Distance of 9.12 Kms. Between Angamali and Aluva.	11642 DF(3)	2010-11	2014-15	94%	100%	Completed.
11	33	Thrisur-Aluva Section- Provision of IBS with Inter Distance of 10.30 Kms. Between PUK & IJK.	11419 DF(3)	2010-11	2014-15	95%	100%	Completed.
12	34	Kayankulam-Quilon Section-Provision of IBS between PRND & QLN.	11619 DF(3)	2010-11	2014-15	128%	100%	Completed.
13	50	Provision of IBS sigg. arrangements in QLN-PVU section and closure of MYV block station.	15972 DF(3)	2015-16				Work allotted in December 2015. Detailed Estimate under preparation.

Track Renewal Works Executed by S & T Project

1	532	Erode Yard- Elimination of Scissor Cross over & re-laying with six sets of 1:12 Points & Crossings.	52980 DRF S&T	2007-08					1) Estimate for scissors cross over sanctioned. 2) Contract awarded for Indoor works. Materials have been received. Tender for outdoor work opened on 05-01-2016 and under TCM. 3) Signalling plan was sent to CTPM for approval. Same has been returned with comments on 31-03-2016.
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SL. No.	DESCRIPTION OF ITEMS	TOTAL AS ON 31-3-2015	ADDED DURING 2014-16	TOTAL AS ON 31-3-2016	SL. No.	DESCRIPTION OF ITEMS	TOTAL AS ON 31-3-2015	ADDED DURING 2014-16	TOTAL AS ON 31-3-2016
1.	ZISTUS	4256561	66088	4322649	(iv)	Telephone at Level-Crossings (No. of Gates)	1843	62	1905
2.	Total Route KMS on Railway	5079.00	-4.55	5074.45	(v)	Total No. of Lifting Barries	1625	110	1735
	Total Running Track KMS on Railway	6950.00	53.84	7003.84	(a)	EOLB (Nos.)	49	0	49
3.	Token Block Working (No. of Block Sections)	13	-2	11	(b)	Hydraulically operated (Nos.)	—	—	—
4.	Tokenless Block Working (No. of Block Sections)	401	8	409	(vi)	Train Actuated Warning System (No. of Gates)	26	1	27
	(i) Block working with continous track circuiting	26	-4	22	(a)	At Unmanned Gates (No. of Gates)	20	1	21
	(ii) Block working with one train only system	—	—	—	(b)	At Manned Gates (No. of Gates)	6	0	6
5.	Lock & Block Working (No. of Block Sections)	140	6	146	(vi)	Sliding Booms (No. of Gates)	19	0	19
6.	Intermediate Block Signal (No. of Block Sections)	24	2	26	13.	A. Total Interlocked Stations (R)	310	-9	301
	(i) On Double Line	24	2	26	(a)	Standard-I Interlocking (R)	30	-3	27
	(ii) On Single Line	0	0	0	(b)	Standard-II Interlocking (R)	280	-6	274
7.	Block Proving by Axle-counters (No. of Block Sections)	325	22	347	(c)	Standard-II I (R)	0	0	0
	(i) Single Line section	196	14	212	(d)	Standard-IV (R)	0	0	0
	(a) BPAC - Block panel	0	0	0	14.	A. Total No of Interlocked Stations (Nos.)	509	7	516
	(b) BPAC - Axle Counter with Block Instrument	196	14	212	(i)	Non Inter-locked Stations	4	0	4
	(ii) Double Line section	127	8	135	(ii)	Modified Non-Inter-locked stations	5	0	5
	(a) BPAC - Block panel	0	0	0	(iii)	Block Hut with station Master/BS	24	2	26
	(b) BPAC - Axle Counter with Block Instrument	127	8	135	(iv)	Interlocking-locking Stations (a+b+c+d)	476	5	481
8.	Colour Light Signalling (Stations)	492	8	500	(a)	Standard-I/IR (Nos.)	48	0	48
	(i) Multiple Aspect	492	8	500	(b)	Standard-II/IR (Nos.)	0	0	0
	(ii) 2-Aspect	0	0	0	(c)	Standard-III/IR (Nos.)	148	11	159
9.	Semaphore Signalling (Stations)	17	-1	16	(d)	Standard-IV/IR (Nos.)	280	-6	274
	(i) MAUQ	8	0	8	(B) Total No of Stations (Nos.)	509	7	516	
	(ii) MLQ	0	0	0	(i)	Special Class stations	88	0	88
	(iii) LQ	9	-1	8	(ii)	'A' Class stations	0	0	0
10.	Automatic Block Working				(iii)	'B' Class stations	396	2	398
	(i) Track Kms	1050.09	6.08	1056.17	(iv)	'B' Class stations without loop	0	0	0
	(ii) Route Kms	435.61	3.04	438.65	(v)	'C' Class stations	24	5	29
	Automatic Permissive Block Working				(vi)	'D' Class stations	1	0	1
	(i) Track Kms	—	—	—	(vii)	'DK' Class stations	0	0	0
	(ii) Route Kms	—	—	—	15.	Route Relay Interlockings (No. of stations)	63	-6	57
10.	Safety Devices at Level-Crossings (No. of Gates)				(i)	Stations with MACL Signals	63	-6	57
	(i) Interlocking at Level Crossings (No. of Gates)	1219	15	1234	(a)	Standard - I/IR Interlocking	19	-1	18
	(ii) Lifting Barriers at Level-Crossings (No. of Gates)	1625	110	1735	(b)	Standard - II Interlocking	0	0	0
	(iii) Non-Interlocked Level Crossings	487	43	540	(c)	Standard - III/IR Interlocking	44	-5	39
					16.	Panel Interlocking No. of stations.			
					A) Panel Interlocking (END PANELS) (No. of stations)	—	—	—	—
					(i) Stations with MACL Signals (No. of stations)	—	—	—	—
					(a) Standard - I Interlocking	—	—	—	—
					(b) Standard - II Interlocking	—	—	—	—
					(c) Standard - III Interlocking	—	—	—	—

SL. No.	DESCRIPTION OF ITEMS	TOTAL AS ON 31-3-2015	ADDED DURING 2014-15	TOTAL AS ON 31-3-2016	SL. No.	DESCRIPTION OF ITEMS	TOTAL AS ON 31-3-2014	ADDED DURING 2014-15	TOTAL AS ON 31-3-2015
(ii) Stations with Semaphore Signals (No. of stations)		—	—	—	(iii) FM to BSL (T/O)		225	14	239
(a) Standard – I Interlocking		—	—	—	(iv) FM to Home (St)		476	5	481
(b) Standard – II Interlocking		—	—	—	(v) FM to Home (T/O)		476	5	481
(c) Standard – III Interlocking		—	—	—	(vi) Loop Line		476	5	481
(B) Panel Interlocking (CENTRAL PANELS) (No. of stns.)		330	-17	313	(vi) Others (Calling-on, Approach (Track circuits etc.)		306	8	314
(i) Stations with MACLS Signals (No. of stns)		323	-17	306	23. Complete Track Circuiting of Yard Stations (No. of Stations)		476	5	481
(a) Standard – I Interlocking		18	-2	16	24. (i) No. of Stations of Semaphore Signals Lit with Solar Power (Nos)		0	1	1
(b) Standard – II Interlocking		0	0	0	(ii) No. of Semaphore Signals Lit with Solar Power (Nos)		0	1	1
(c) Standard – III Interlocking		305	-15	290	(iii) No. of LC Gates Lit with Solar Power (Nos)		0	3	3
(ii) Stations with Semaphore Signals (No. of stns)		7	0	7	25. AFTC (Nos)		1400	24	1424
(a) Standard – I Interlocking		0	0	0	26. HFTC (Nos)		—	—	—
(b) Standard – II Interlocking		0	0	0	27. DIGITAL AXLE-COUNTERS (Nos)				
(c) Standard – III Interlocking		7	0	7	(i) SSDAC (Single Entry)		484	30	514
17. Lever Frames (No. of stations)		11	-2	9	(a) Stations		968	60	1028
(i) With MACL Signals		1	-1	0	(b) Equipments		—	—	—
(a) Standard-I Interlocking		1	-1	0	(ii) MSDAC (Multi Entry)		—	—	—
(b) Standard –II Interlocking		0	0	0	(a) Stations		—	—	—
(c) Standard –III Interlocking		0	0	0	(b) Equipments		—	—	—
(d) Non-Interlocked		0	0	0	28. ANALOG AXLE-COUNTERS (Nos)				
(e) Modified Non-Interlocked		0	0	0	(i) Single Entry		16	6	22
(ii) Stations with Semaphore Signals (DOUBLE-WIRE) (MAUQ) (No. of stns)		1	0	1	(a) Stations		44	9	53
(a) Standard-I Interlocking		0	0	0	(b) Equipments		—	—	—
(b) Standard –II Interlocking		0	0	0	(ii) Multi Entry		—	—	—
(c) Standard –III Interlocking		0	0	0	(a) Stations		—	—	—
(d) Non-Interlocked		1	0	1	(b) Equipments		—	—	—
(iii) Stations with Semaphore Signals (SINGLE WIRE)		9	-1	8	29. MICROTRAX (Nos)		—	—	—
(a) Standard – I Interlocking		2	-1	1	30. LED Lit Semaphore Signals (Nos)				
(b) Standard – II Interlocking		0	0	0	(a) No. of Stations		—	—	—
(c) Standard – III Interlocking		0	0	0	(i) With conventional power		—	—	—
(d) Non-Interlocked		2	0	2	(ii) With Solar Power		—	—	—
(e) Modified Non-Interlocked		5	0	5	(iii) With Primary Batteries		—	—	—
18. Electronic Interlocking (No. of stations)		80	21	101	(b) No. of Signals		—	—	—
(a) Hot		36	20	56	(i) With conventional power		—	—	—
(b) Warm		44	1	45	(ii) With Solar Power		—	—	—
i. Microlok II (Ansaldo)		9	0	9	(iii) With Primary Batteries		—	—	—
(a) Hot		38	1	40	(b) No. of Signals		—	—	—
(b) Warm		14	5	19	(i) With conventional power		—	—	—
ii Westrac (Invansys)		14	5	19	(ii) With Solar Power		—	—	—
(a) Hot		14	5	19	(iii) With Primary Batteries		—	—	—
(b) Warm		0	0	0	31. Electrically lit semaphore signals (Nos)				
iii. AZD Praha		0	0	0	(a) No. of Stations		—	—	—
(a) Hot		0	0	0	(i) With conventional power		—	—	—
(b) Warm		0	0	0	(ii) With Solar Power		—	—	—
iv. GE		5	0	5	(iii) With Primary Batteries		—	—	—
(a) Hot		0	0	0	(b) No. of Signals		—	—	—
(b) Warm		5	0	5	(i) With conventional power		—	—	—
v. Siemens (SICAS)		0	0	0	(ii) With Solar Power (Nos.)		—	—	—
(a) Hot		0	0	0	(iii) With Primary Batteries		—	—	—
(b) Warm		0	0	0	32. LED Lit MACL Signals (Nos)				
vi. Kyocera		0	1	1	(a) No. of Stations		490	7	497
(a) Hot		0	1	1	(b) No. of Signals		9409	1373	10782
(b) Warm		0	0	0	(c) No. of Aspects		25557	3632	29489
vii. Medha		13	14	27	33. Tripple pole Signal lamps (Nos)		—	—	—
(a) Hot		13	14	27	(a) No. of Stations		—	—	—
(b) Warm		0	0	0	(b) No. of Signals		—	—	—
19. On Board Train Protection System					(c) No. of Aspects		—	—	—
a. Auxiliary Warning System		—	—	—	34. Calling - On Signals (No. of Stations)		456	13	469
(i) RKM		—	—	—	Data - loggers (No. of Stations)		478	2	480
(ii) Trackside Equipment (TKM)		—	—	—	(i) Stand Alone (Nos)		2	22	24
(iii) Onboard Equipment (No. of Locos/EMUs/MEMUs/DEMUs)		—	—	—	(ii) Networking Mode (Section / Nos)		476	-20	456
b. Anti Collision Device (ACD)		—	—	—	(iii) Networking with Division		451	0	451
(i) RKM		—	—	—	(iv) Networking with Zonal HQ		451	0	451
(ii) Trackside Equipment (TKM)		—	—	—	(v) Networking with Railway Board		451	0	451
(iii) Onboard Equipment (No. of Locos/EMUs/MEMUs/DEMUs)		—	—	—	36. Integrated Power Supply (No. of Stations)		194	60	254
c. Train Protection & Warning System)		—	—	—	(i) SCR Based (No. of Stations)		0	0	0
(i) RKM		48.59	0	48.59	(ii) SMPS Based (No. of Stations)		194	60	254
(ii) Trackside Equipment (TKM)		97.18	0	97.18	37. Point Machines (Nos)		5812	95	5907
(iii) Onboard Equipment (No. of Locos/EMUs/MEMUs/DEMUs)		82	0	82	(i) IRS Type		5787	93	5880
d. Train Collision & Avoidance System (TCAS)		—	—	—	(ii) Siemens Type		0	0	0
(i) RKM		—	—	—	(iii) Clamp Type		36	0	36
(ii) Trackside Equipment (TKM)		—	—	—	(iv) Other		9	2	11
(iii) Onboard Equipment (No. of Locos/EMUs/MEMUs/DEMUs)		—	—	—	38. Colour Light Signalling (No. of Signals)		9666	1126	10792
20. On Board Train Protection System (Route Kms)		—	—	—	(i) Multi aspect		5692	2161	7853
21. Second Distant Signal (No. of stations)		—	—	—	(ii) Two aspects		3964	-1035	2929
(i) Stations with MACLS Signals		—	—	—	39. Semaphore Signalling (No. of Signals)		126	0	126
(ii) LC Gates		—	—	—	(i) MAUQ		91	0	91
(iii) Intermediate Block Signals		—	—	—	(ii) MLQ		0	0	0
22. Track Circuiting (No. of locations)		2911	47	2958	(iii) LQ		35	0	35
(i) FM to FM		476	5	481	40. Batteries (Nos)		82729	-1284	81445
(ii) FM to BSL (St)		476	5	481	(a) (i) 2V Cells 40 AH		3274	-204	3070
					(ii) 2V Cells 80 AH		37649	-1031	36618
					(iii) 2V Cells 100 AH		0	0	0
					(iv) 2V Cells 120 AH		14102	-1180	12922
					(v) 2V Cells 200 AH		20257	3222	23479
					(vi) 2V Cells 300 AH		1853	135	1988
					(vii) 2V Cells 400 AH		5445	-2172	3273
					(viii) 2V Cells 500 AH		0	0	0
					(ix) 2V Cells 600 AH		0	0	0
					(b) (i) Battery Set 12/24 V		67	14	81
					(ii) Battery Set 4/24 V		82	-68	14

5. Signal Equipment Failures

Sl. No.	Signal Failures	Number of Failures			
		Previous Year 2014-15		Current Year 2015-16	
		Nos.	%	Nos.	%
I. On Signal Account :—					
(a) In colour light Signalling area		3,754	64.63	3,564	65.02
(b) In semaphore signalling area.		0	0	0	0.00
	Sub-Total	3,754	64.63	3,564	65.02
II. On Account of others :—					
1. Operating Department		374	6.39	367	6.70
2. Mechanical Department		13	0.22	13	0.24
3. Engineering Department		609	10.40	569	10.38
4. Electrical Department		78	1.33	105	1.92
5. D. O. T.		0	0.00	0	0.00
6. Miscreant		136	2.32	130	2.37
7. Miscellaneous		692	11.82	587	10.71
8. S & T Construction		2071	2.89	146	2.66
	Sub-Total	5855	35.37	1917	34.98
	Total (I + II)	6547		5481	

The percentage is worked out based on the grand total number of signal and interlocking failures both on S. & T. account and other account 5481

6. S & T Workshop—Podanur

Introduction:

Signal and Telecommunication Workshop was set up on 09/04/1958 at Podanur to serve as a manufacturing-cum repairing unit for Signal equipments. Initial activities were confined to manufacture of Mechanical Signalling equipments like Lever frames, Levers and Accessories. Subsequently the repairing and overhauling of Electric Signal reversers, Single Line Block Instrument and Electro Mechanical Signalling Equipments like Shelf Type Relays were taken up for production. Since then this workshop has grown in to a major manufacturing unit for Signal and Telecommunication products and supplies the same to the entire Indian Railways.

The workshop is managed by Chief Workshop Manager (CWM) with a team of Officers comprising of 05 S&T Officers, 01 Personnel Officer, 01 Stores officer and 01 Accounts Officer.

Development of Signalling Relays and Electronic Axle counters :

Gradually the production of Shelf Type Relays has been dispensed with and production of modern Signalling items like Q' Type Relays, Axle Counters, Electronic timers, Control Panels (CCIP) etc. were taken up for production in this workshop with complete indigenous components which has helped in the commissioning of Modern Signalling like Route Relay an control panel Inter-locking and patially in Electronic Inter locking in various Railways.

Production items :

Presently the workshop is producing Signalling Relays, Control Panels, Double Line Block Instrument, Token less Block Instruments to suit Non-RE areas, TLBI with UFSBI to suit RE area also, Electrically operated Lifting Barrier Gates, IRS Point machines, (Both 143 mm and 20 mm Stroke), Polarised Relays, Electronic Timers etc. The workshop has an auxiliary unit in Perambur/Chennai. The Perambur unit take up the overhauling of Double Line Block Instruments and FM Daido Block Instruments which are installed throughout Southern Railways. A part from this, the Perambur Unit also takes up the assembly work of Gate Warning Bell, Annunciator, Battery Charging etc. In addition to the above, S&T workshop/Perambur is also manufacturing TLD Boxed and E Type Locks.

Production Growth and Out-Turn:

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

The combined annual Out-Turn of S&T Workshop/Podanur and Perambur Unit is in the order of ₹ 62.65 Cr. for the year 2015-2016.

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

Sl. No.	Description	2012-13	2013-14	2014-15	2015-16
1	Q Type Plug-in Type Relays	67123	62087	60655	55162
2	IRS Point machine	2311	2613	2360	3305
3	Token Less Block Instrument (Push .. Button Type)	72	71	56	39
4	Double Line Block Instrument	120	130	124	156
5	Control panel	78	128	103	26
6	Polarised Relay	222	224	396	360
8	GRS Apparatus cases	1690	1678	1587	1780

Details of Staff Strength and Out-turn per employee are as follows
The Out-turn per employee for the year 2015-16 is ₹ 7.9 Lakh.

Year	Out turn in Crores of ₹	Staff strength	Out turn per employee (in lakhs of ₹)
2012-13	57.98	741	7.82
2013-14	67.52	798	8.49
2014-15	61.31	736	8.00
2015-16	62.65	789	7.94

Incentive scheme :

The Incentive scheme was introduced in this workshop from 1st August 1963. An average of 589 staff per month has been covered under incentive scheme for the year 2015-16.

Quality Control :

The pride of the workshop lies in its capacity to produce sophisticated Signalling products of high standard quality. This workshop has got ISO 9001: 2008 Certification for all sections including Administrative offices.

This Workshop is an ISO 14001 Certified Unit.

ISO 18001 Certification (Occupational Health and Safety Management System) is also initiated for implementation in entire workshop.

As per the Quality policy, this workshop is committed to manufacture and supply Safety signaling Equipments of consistent quality by continuous improvement. As result, a lot of improvements were made and new fixtures were introduced in the production of Relays, Token less Block Instruments, Point machines etc. These measures have reduced the rejection rate considerably and improved the reliability of items being produced in this workshop.

Developmental Activities :

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

- Special relays Viz : QNNA1, QBCA1, QN1K & QNA1K.
- Earth Leakage defector.
- Track feed battery charger.
- Electronics for Universal Fail Safe Block Interface.
- Contactless Battery Charger Monitoring System.
- LED Signal Units for Subsidiary signals—Calling on, Shunt, Route.
- Handle Type Block Instruments (FM type) (Diado).

The following new items are developed during the 2015-16 year :—

- 1) Double Walled air ventilator Location Box.
- 2) Galvanized Location Box and Ground Nut.
- 3) Location Box fabricated with Stainless Steel.

Computerization in S&T Workshop/Podanur :

All the Shops and sections of S&T Workshop and Associated Offices are provided with PC Systems and these are inter-connected through LAN and in turn connected through Railnet.

Daily position of production, material stock position, etc. are monitored through computers. All the activities in the Bills section, Planning section, Drawing Office, Personnel Branch, ISO Section, Inspection Department, Budget section, Stores section, Marketing section, Progress section, General section are done through computers only. The issue of passes (Privilege passes, Post retirement passes) are done through computers. Computerized GAC system has been Introduced in this workshop from 22-02-2016 onwards, IPAS Bill system has also been introduced.

Out - sourcing of sub-assemblies and components :-

To meet the growing demand of vital components produced in the workshop, certain Sub-assemblies and Components of Q' Relays, Point machine and Electronic items are outsourced apart from in-house manufacture. Stock items are procured through Stores Department through Procurement memo system.

Basic Training Centre :

A Basic Training Centre is functioning attached with S&T Workshop/Podanur from 9/4/1993. Courses for Non-ITI Apprentice Fitters (Freshers) Ex-ITI Fitter, Turner, Welder and Machinist as per Apprentice Act 1961 are conducted here. Written examination was held on 20/09/2015 and engagement order issued on 13th October 2015 to report on 15th October 2015.

Staff Welfare :

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

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

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

S&T Workshop/Perambur :

S&T Workshop/Perambur is a repair workshop. The workshop is functioning under the control of CWM/S&T/PTJ. The major activity of the workshop is the overhauling of Double Line Block Instrument and Handle Type (FM type) (Diado). A part from these Overhauling activities, this workshop manufacture Electronic Gate Warning Bell, Annunciator, E type lock and TLD Boxes (FRP). Initial charging of Batteries used in Signal and AC Locos also are undertaken in this workshop.

This is a Non-Incentive Workshop managed by a SSE and PE/S&T/PTJ is the overall in charge of the unit who visit the workshop once in a week to look after the activities of the workshop.

S & T Training Centre at Podanur

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

Principal (Sr. Scale)	- 01
Vice Principal (Asst. Grade)	- 01
SSE/Sig.	- 01
Instructors	- 10
Demonstrators	- 02
Artizan Instructor	- 01

Mandatory courses like initial courses for Apprentices, ESMs and TCMs, Refresher courses for ESMs and TCMs, Promotional courses for Tech. to JE, Modular courses for SSEs of signal & Telecommunication, Pre-promotional courses for SSE/JE for becoming Group "B" service. Common courses like computer appreciation, Yoga & Meditation, Ayurveda, Equipment courses/Signal & Tele and Basic Fundamental courses for Helpers/Tele and Interactive session networking configuration are also being conducted here.

In addition to the above the following facilities are also available at S & T Training Centre/PTJ.

1. RRI system I & II, UFSBI, HASSDAC, Block Proving Axle Counter, Data Logger.
2. Modeling yard with six DC Track circuit, One cross over point with Trap point, LC gate, LED Signal, Point machine with galvanized rod connection.
3. WIFI system provided.
4. 3 Nos. of Desktop computer provided, LCD projectors in 5 rooms.
5. Network 2 Nos. of printer model No. EPSON L 220.
6. 1 No. digital camera SLY 20.1 mega fixal camera to cover events and training.
7. 45 Nos. of supreme ornate model chair provided for auditorium.
8. Water doctor installed at Training Centre and Hostel for the benefit of trainees.
9. Turf provided in shuttle badminton court in the new seminar hall.
10. Introduced table mate in trainees mess.
11. Nylon net provided to avoid birds menace in the new constructed seminar hall.
12. Provided galvanized ground connection assembly for cross over point in model yard.
13. Block lab, Electronic lab & Telecommunication lab.
14. Virtual class room.
15. Computer room.
16. Computer lab, EI lab and Power lab.

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

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

**DETAILS OF TRAINEES WHO HAD UNDERGONE TRAINING FOR THE PERIOD
APRIL 2015 TO MARCH 2016 AT S & T TRAINING SCHOOL - PODANUR**

Sl. No.	Name of Courses	No. of Courses Pro-grammed	No. of courses conducted	No. of seats allotted	No. of Staff trained
I. Initial Courses					
1	Initial course for App. ESMs	7	5	41	41
2	Initial course for App.TCMs	2	2	10	10
3	App.SSE/Tele,App.JE/Drg.	2	2	2	2
	TOTAL	11	9	53	53
II. REFRESHER COURSES					
1	Refresher course for ESMs.	13	13	299	370
2	Refresher course for TCMs.	7	7	91	90
	TOTAL	20	20	390	460
III. FOUNDATION COURSES					
1	Foundation course for ESMs.	3	3	42	80
2	Foundation course for TCMs.	4	4	40	34
	TOTAL	7	7	82	114
IV. PROMOTIONAL COURSES					
1	Promotional Course/Signal	10	10	50	50
2	Promotional Course/Telecom.	9	9	28	28
3	Promotional Course C to B	1	1	3	3
	TOTAL	20	20	81	81
V. MODULAR COURSES					
	Modular Course/Signal	2	2	20	6
	Modular Course/Tele	2	2	20	9
	TOTAL	4	4	40	15
VI. COMMON COURSES					
1	Yoga & Meditation	7	7	70	36
2	Computer appreciation	5	5	50	32
3	Raja Yoga, Hatha Yoga, Ayurvedha	15	15	962	962
	TOTAL	27	27	1082	1030
VII. (a) EQUIPMENT COURSES (SIGNAL)					
1	Electronic Interlocking/ LPD & earthing	5	5	50	46
2	RRI System I & II	5	5	50	27
3	Block Instrument Course	4	4	40	86
4	Automatic Signal/AFTC	2	2	20	6
5	Point Machine & Track circuit	3	3	30	16
6	Signalling in RE, CLS & LED Sigg.	3	3	30	9
7	IPS & Data Logger.	4	4	40	27
8	Axle Counter IBNS/BPAC/ SSDAC	3	2	20	11
9	HASSDAC/SSDAC	2	2	20	14
10	Introduction to Ele. for ESMs	6	6	60	29
11	Induction to unskilled	5	5	50	124
Special Courses					
12	CBSE curr. Teachers trg.	1	1	52	52
13	Electronic Interlocking	7	7	103	103
14	BPAC	1	1	7	7
15	Data Logger	1	1	5	5
16	RRI Route Holding	1	1	2	2
17	Earthing	1	1	9	9
18	Basic Fundamental course for helpers.	2	2	119	119
	TOTAL	56	55	707	692

Sl. No.	Name of Courses	No. of Courses Pro-grammed	No. of courses conducted	No. of seats allotted	No. of Staff trained
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VII. (b) EQUIPMENT COURSES (TELECOMM.)

1	Data Communication, Railnet, PRS & UTS & Basic of networking.	7	7	70	28
2	Multiplexing techniques PDH/SDH	7	7	70	26
3	Making of cable route plan and its use, TTC including protection path testing and quad cable jointing	7	4	40	20
4	Optical fibre communication & Splicing, measurements and fault.	8	8	80	21
5	ISDN Exchange	7	7	70	29
6	Power equipment batteries and measuring instruments.	7	7	70	39
7	Modern communication, Mobile communication, NGN, IPDSLAM & MTRC.	5	5	50	16
8	PA system, IPIS (Video Surveillance system)	7	7	70	21
9	Configuration of network devices	2	1	10	3
10	Mesuring of Telecom. Instruments	1	1	10	4
11	Management course for supervisors.	2	1	10	3
12	Induction to unskilled	5	5	50	53
Special course					
13	Basic Fundamental course for helpers/Tele.	2	2	7	7
14	Interactive session networking configuration	1	1	9	9
	TOTAL	68	63	616	279
	GRAND TOTAL	213	205	3051	2724

Sl. No.	Nature of course	seats allotted	seats utilised	% of utilisation
1	Initial Course	53	53	100%
2	Refresher Course	390	460	118%
3	Foundation Course	81	114	139%
4	Promotional Course	82	81	100%
5	Modular Course	40	15	38%
6	Common Courses	1082	1030	95%
7	Equipment Courses/Signal	707	692	98%
8	Equipment Courses/Tele	616	279	45%
	TOTAL	3051	2724	89%

7. Staff

(i) Total strength of staff (cadrewise separately for Signal and Tele-communication staff) in respect of Inspectors and Artizans 2015-16.

Sl. No.	Category	Total Nos.
(a) Signalling—		
(1) Signal Engineers	..	287
(2) Technician/Signal	..	1,422
(b) Tele-communication—		
(1) Tele-commn. Engineers	..	176
(2) Technician, Tele-commn	..	498
(3) Wireless Instrument mechanics		89

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

(a) Through Railway Recruitment Board		
(1) SSE/Sig.	..	22
(2) JE/Sig.	..	1
(3) SEE/Tele.	..	5
(4) JE/Tele.	..	3
(5) Technician/Gr. II/Signal	..	48
(6) Technician/Gr. III/Signal	..	28
(7) Technician/Gr. III/Tele.	..	26
(8) Wireless Instrument Mechanics		Nil

(iii) Total No. of Staff trained through Zonal Training Schools/Centres category wise during 2015-16.

Sl. No.	Name of the courses	No. of courses conducted	No. of staff trained
(1) Refresher Course	..	20	460
(2) Initial Course	..	9	53
(3) Equipment Course	..	118	971
(4) Foundation Course	..	7	114
(5) Pre-promotional Courses			
(a) ESMs/MSMs/TCMs	..	20	81
(6) Other courses - Computer	..	5	32
Other courses - Yoga	..	22	998
Other courses - Modular	..	4	15
Total		205	2,724

(iv) Signal and Tele-communication Units for 2015-16

Division	DISTUs
Chennai	6,20,969
Salem	2,00,414
Palakkad	1,97,279
Thiruvananthapuram	1,93,839
Tiruchchirappalli	1,69,121
Madurai	1,47,278
Total	15,28,900
ZISTUS	43,22,649



X. भंडार/STORES

1. Organisation of Stores Department :—

The Stores Department is taking care of Material Management activity and fully committed to arrange adequate quantity of materials, of right quantity, at right time at right price from right vendor to a right consignee. To meet the requirements of various Departments adopting professional method of procurement, as may as **25 stores depots** are functioning, spreading over six Divisions of Southern Railway. The Stores department is arranging about 6566 stocked items required on regular basis, apart from procuring high value Non-Stock items centrally at Headquarters Purchase Office and materials of smaller value by individual field units.

2. The Details of Stores Depots are as under:—

2. 1 General and Divisional Stores Depot :—

Sl. No.	Name of the depot (Depot Code)	Brief function	No. of items stocked	Issue value 2015-16 (in Crs. of ₹)	Staff Strength
1	General Stores Depot, Perambur (00).	Supply of materials required for Chennai Division, mainly ; Supply of uniforms throughout Southern Railway Supply of books and forms & money valued items to Southern Railway, South Western Railway & ICF; Major scrap depot of Southern Railway.	621	155.12	261
2	General Stores Depot, Golden Rock (24).	Supply of materials required for Trichy Division	460	7.48	40
3	Divisional Stores Depot, Quilon (20).	Supply of materials required for Trivandrum Division.	422	10.43	20
4	Divisional Stores Depot, Erode (13).	Supply of materials required for Salem Division.	398	6.41	16
5	Divisional Stores Depot, Madurai (14).	Supply of materials required for Madurai Division.	348	7.44	32
6	General Stores Depot, Palakkad (07).	Supply of materials required for Palakkad Division.	289	5.75	9
7	Coach Maintenance Stores Depot, Basin Bridge (25).	Supply of C&W materials required for Chennai Division.	225	3.29	13

2. 2 Depots attached with Diesel & Electric Sheds :

Sl. Nos.	Name of the Depot (Depot Code)	Brief function	No. of items stocked	Issue value 2015-16 (in Crs. of ₹)	Staff Strength
1	Diesel Stores Depot, GOC (18).	Supply of materials required for "Diesel POH Shed"/Goldenrock.	1923	41.57	19
2	Diesel shed/Stores Depot (19).	Supply of materials required for "Diesel Loco Shed"/Goldenrock.	1536	23.22	41
3	Diesel Stores Depot, Erode (08).	Supply of materials required for Diesel Shed / Erode.	1289	18.21	25
4	Diesel Stores Depot, Emakulam (23).	Supply of materials required for Diesel Loco Shed, Emakulam.	810	7.65	12
5	Diesel Stores Depot, Tondiarpet (26).	Supply of materials required for Diesel Loco Shed, Tondiarpet.	643	4.33	14
6	Electric Loco Stores Depot, Arakkonam (21).	Supply of materials required for Electric Loco Shed at Arakkonam..	641	11.53	25
7	Electric Loco Stores Depot, Erode (22).	Supply of materials required for Electric Loco Shed /Erode.	611	10.06	19
8	Electric Loco Stores Depot, Royapuram (15).	Supply of materials required for Electric Loco Shed /Royapuram.	254	0.86	3

2.3 Depots attached with Workshop :

Sl. No.	Name of the depot (Depot Code)	Brief function	No. of items stocked	Issue value 2015-16 (in Crs. of ₹)	Staff Strength
1	Loco Stores Depot, Perambur (01).	Supply of materials required for Loco Workshop, Perambur.	1234	65.44	93
2	Carriage Stores Depot/ Perambur (28).	Supply of materials required for Carriage Workshop, Perambur.	1087	175.20	89
3	Mechanical Stores Depot/ GOC (02)	Supply of materials required for Mechanical Workshop, Golden Rock.	864	99.66	209
4	Branch Stores/Arakkonam (09).	Supply of materials required for Engineering Workshop, Arakkonam.	80	3.52	16

2.4 Depots attached with EMU Sheds :

Sl. No.	Name of the Depot (Depot Code)	Brief function	No. of items stocked	Issue value 2014-15 (in Crs. of ₹)	Staff Strength
1	Traction Stores Depot/ Avadi (27).	Supply of materials required for Traction Depot, Avadi.	620	15.23	21
2	Traction Stores Depot/ Tambaram (10).	Supply of materials required for Traction Depot at Tambaram and Velachery.	577	12.84	23

2.5 Depots attached to Manufacturing Shops :

Sl. No.	Name of the depot (Depot Code)	Brief function	No. of items stocked	Issue value 2015-16 (in Crs. of ₹)	Staff Strength
1	Signal Stores Depot, Podanur (11).	Supply of materials required for Signal & Telecom Workshop, Podanur.	275	79.20	36
2	Wagon Production, Golden Rock (17).	Supply of materials required for Wagon Production, Workshop, Golden Rock.	Items procured against RSP NS indents.		43

2.6 Other Depots :

Sl. No.	Name of the depot (Depot Code)	Brief function	No. of items stocked	Issue value 2015-16 (in Crs. of ₹)	Staff Strength
1	Combined scrap Stores Depot, Golden Rock (05).	Receiving of scrap from various shops of Central workshop/GOC & other Scrap from Open Line and arranging its disposal through e-Auctions.	168	89.72	73
2	Press Stores Ward, Royapuram (12).	Supply of all types of Tickets, Money value books and Standard forms etc. to Southern Railway, S.W. Railway (SBC & MYS Division).	48	4.46	29

2.7 Printing Press/ Royapuram :

There are two Printing Presses in Southern Railway to meet with 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 requirement of Books and Forms by South Western Railway, ICF, RRB, Construction Organisation, Railway Claims Tribunal, Railway Rate Tribunal, etc. are also undertaken by these printing presses.

2.7.1 Productivity of Printing Press at Royapuram

The production output of the General Printing Press for the year 2015-16 is 8.98 crores at DFCI (Double Foolscape Impression) against the targeted out turn 7.2 crores per year. This includes standard forms and money value items.

2.7.2 New Activity at Press/Royapuram

Web offset printing machine to printing of pre-printed PRS (Passanger Reservation System) and UTS (Unreserved Ticket System tickets has been received from M/s. Rotatek, Spain and commissioned on 15th February, 2015. So long UTS tickets were obtained from trade. New 10 crores of UTS tickets have been printed on this machine. Also 4 lakhs YTSK (Yatri Ticket Suvidha Kendra) tickets have been printed and despatched.

2.7.3 Production of Ticket Printing Factory at Trichy

Tickets are printed at Ticket Printing Factory. For the year 2015-16, only 2.19 Crores tickets have been printed. UTS tickets were introduced in various stations over Southern Railway causing low indent for printing of card tickets.

3. ISO Certification :

Southern Railway is one of the first Zonal Railway to obtain ISO 9001:2000 certification for Material Management Department of Stores Headquarters, Eight Stores Depots along with Associate Finance. The ISO 9001 : 2000 certification was obtained in the year 2001. Now, it has been upgraded to ISO 9001 : 2008. The ISO 9001 : 2008 rectification was done in 2014. This certification is valid upto 22-08-2017. Stores Depots attached to Workshops and Sheds are certified as part of the entire system.

4.0 SCRAP DETAILS AND INNOVATION IN MAPPING OF SCRAP**4.1 Innovation/Pro-active measure :**

Google mapping of Scrap Materials have been successfully implemented with additional information of detailed description and photo of materials, by inhouse development team without outsourcing extra expenditure.

To have transparency, surveillance CCTV cameras have been installed in scrap depot/Golden Rock and work is in the final stage for GSD/PER.

Plantation of 75 trees of multi species was done at vacant land in scrap depot/Gold rock to maintain Green Environment.

4.2 RTGS (Real Time Gross Settlement) :

Southern Railway has collected ~ 188.67 Crores in 2015-16 through RTGS.

4.3 SCRAP DESPATCHES TO RWF/YNK:

Against Railway Board's target of 19,600 MTs, Southern Railway has despatched 14,828 MTs. of Scrap rails/HMS to RWF / YNK. (Value Rs. 42.90 Crores).

4.4 SCRAP SALES PERFORMANCE :

As Against the Railway Board's target of Rs. 210 Crores for Scrap Sale for 2015-16, Southern Railway has achieved Rs. 239.75 Crores. **This has enabled Southern Railway to bag the coveted "Sales Management Shield" for the best performance in scrap disposal from Railway Board.**

5. Stores Balance-(2015-2016)

(Figs. in crores of ₹)

	Maintenance	Works	Total
(I) Opening Balance			
Phy. stock without Adjustment	142.31	0.20	142.51
Adjustment	-0.15	0.00	-0.15
Stores Suspense balance	7.87	0.00	7.87
Total as per approx accounts	150.03	0.20	150.23
(ii) Receipts during the year	1245.32	0.07	1245.39
(iii) Issues during the year	1315.89	0.09	1315.98
(iv) Closing Balance			
Phy. stock without Adjustment	79.46	0.18	79.64
Adjustment	-0.15	0.00	-0.15
Stores Suspense balance	-7.04	0.00	7.04
Total as per approx accounts	72.27	0.18	72.45

6. Inventory Performance 2015-16

(figs in crores of ₹)

1) Overall Balance without fuel as on 31/3/2016	-	136.65
2) Overall Balance with fuel as on 31/3/2016	-	160.75
3) Total Issues (without fuel)	-	858.62
4) Total Issues (with fuel)	-	1315.98
5) Turn Over Ratio (without fuel)	-	15.92%
6) Turn Over Ratio (with fuel)	-	12.22 %

7. Economy Achieved in use of Stationery and Other Materials.

Stringent economy is enforced in the utilisation of stationery and other materials of general usage.

8. Purchase of Stores**8.1 Purchase -Value of Railway Equipment and Stores 2015-16**

(figs. in crores of ₹)

1. Total value of equipment & stores	-	2494.51
2. Value of stores ordered through department of supply (DGS & D)	-	6.61
3. Value of stores ordered through Railway Board	-	993.11
4. Value of stores ordered by the Railway Direct.	-	1494.79

8.2 Details of purchases of Stores (2015-16)

Every year about 4,800 stock orders and 600 non-stock orders are conclude by the office of the COS/S. Rly.

(figures in crores of ₹)

1. Materials imported direct	-	2.79
2. Materials imported through agencies in India	-	1.78
3. Total imported direct and through agencies	-	4.57
4. Indigenous materials	-	2489.94
5. Total imported and indigenous	-	2494.51
6. Percentage of items (4) over (5)	-	99.82 %

8.3 Purchase From Khadi, Cottage and SSI Units

Value of purchases falling within the category of khadi, cottage and small scale industrial products during the year 2015-16 is to the extant of ₹ 370.13 Crs.

9. 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. (2015-16)

(figure in Metric Tons)

Sl. No.	Item	Quantity indented during the year	Stock at the beginning of the year	Receipts during the year	Issues during the year
1	Pig Iron	0.200	0.000	0.200	0.200
2	Structural	496.528	511.862	493.133	503.758
3	Plates	2546.544	922.095	2054.053	2358.176
4	Sheets	1640.305	408.596	1439.426	1626.208
5	Spring Steel	600.000	273.310	0.000	210.000
6	Tool Alloy & Steel Plates	—	—	—	—

10. Disposal of Scrap - During 2015-16, Southern Railway generated a revenue of ₹ 239.75 Crores, by sale of various Scrap items :—

Category of Scrap	Balance as on 01.04.15		Receipts during the year		Scrap Disposed off during the year		Balance as on 01.04.2016	
	Qty/ MT	Value (in Crs. of ₹)	Qty/ MT	Value (in Crs. of ₹)	Qty/ MT	Value (in Crs. of ₹)	Qty/ MT	Value (in Crs. of ₹)
I. Ferrous Scrap								
a. P. Way scrap	12985	29.62	32497	59.49	45232	82.92	250	0.45
b. Other than P. Way scrap	3972	9.53	41057	78.89	44195	84.92	834	1.58
II. Non-ferrous Scrap.	106	1.06	3654	39.20	3746	40.19	14	0.14
III. Rolling Stock	Qty./No. of ₹)	(in Crs. of ₹)	Qty./No. of ₹)	(in Crs. of ₹)	Qty./No. of ₹)	(in Crs. of ₹)	Qty./No. of ₹)	(in Crs. of ₹)
a. Wagon	34	1.02	177	3.31	210	3.92	1	1.02
b. Coaches	57	2028	183	5.34	212	6.10	28	0.81
c. Locos	3	0.90	18	4.39	19	4.63	2	0.49
IV. Misc. Scrap	Qty/No.	Value (in Crs. of ₹)	Qty/No.	Value (in Crs. of ₹)	Qty/No.	Value (in Crs. of ₹)	Qty/No.	Value (in Crs. of ₹)
Misc. Scrap (*) in MT.	622	1046	6960	13.78	6367	12.61	1215	2.95
Misc. Scrap in No.	218	0.39	1382	3.83	1568	4.35	32	0.08
Grand Total Value		46.26		208.23		239.64		6.52

(*) - Misc Scrap includes T&P items, Machineries, Paper, Glass, etc.- some of which is quantified in Nos. and some others weighed on MTs.

Scrap Reclamation :

Ferrous Scrap	:	24.83 mt.	Value	0.20 Crs.
Non-Ferrous Scrap	:	41.213 mt.	Value	1.42 Crs.
Misc.	:	30.963 mt.	Value	0.20 Crs.

11. Supply of Uniforms

Clothing Factory is functioning at General Stores Depot, Perambur and caters to the uniform requirement of Southern Railway. Depending upon the scales, uniforms are issued to the eligible staff and compliance is as under for the year 2015-16 :-

Type of Fabric	No. of garments indented for	No. of Garments actually supplied	No. of Garments to be supplied	% of compliance
Terrycotton	1,45,198	1,45,198	Nil	100%
Serge (Winter)	Nil	194	Nil	Nil
Total	1,45,198	1,45,198	Nil	100%

In addition, 37,656 Nos. of ready made garments and 4,27,590 bedroll items were issued during 2015-16.

12. Receipt, Inspection & Issues of Stores

12.1 Statistics on Receipts and Inspection :—

	2013-14	2014-15	2015-16
1. No. of Staff for clerical and supervision work (Nos.)	84	76	69
2. Yearly Expenditure of staff (₹ in Lakhs.)	410.19	415.78	420.92
3. Value of stores inspected/received (₹ in Lakhs)	61,617.25	60,399.23	66,844.85
4. Cost of receipts and inspection per ₹ 100 of value of stores	0.67	0.67	0.63
5. Receipt notes granted per clerk per month ..	42	34	33

12.2 Statistics on Accounts and Departmental Stock Verification

	2013-14	2014-15	2015-16
1. Percentage of items verified			
(a) with no discrepancy.	99.36	99.72	99.73
(b) with discrepancies			
Upto limit of ₹ 50/-	0.11	0.00	0.00
Upto limit of ₹ 1000/-	0.13	0.16	0.14
Above the limit of ₹ 1000/-	0.40	0.12	0.13

12.3 Loss and gain brought to light as a result of departmental and Accounts verification (Stores Depots only).

(₹ in Lakhs)

Year	Loss	Gain	Net Gain	Net Loss
2011-12	1.66	0.90	..	0.76
2012-13	3.18	7.27	4.09	..
2013-14	2.51	7.36	4.84	..
2014-15	3.01	20.34	17.33	..
2015-16	4.97	5.16	0.19	..

12.4 Statistic on Unit cost of Issues

	2013-14	2014-15	2015-16
1. Value of stores issued during the year from the depots (figures in lakhs of ₹).	76407.66	85490.29	85862.43
2. Pay and Allowances of depot staff (figures in lakhs of ₹).	2120.23	2442.13	2443.43
3. Cost of making issues worth ₹ 100/- (in Rs.)	2.77	2.86	2.85

13. Availability of items (as on 31st March 2016)

(Value in lakh of ₹)

1. Total No. of stocked	..	..	..	..	6566
2. No. of items available	..	..	..	..	6371
3. Percentage	..	..	..	..	97.03%

14. Overstock and Surplus Stores

(Value in lakh of ₹)

Details	As on 31-3-2015	As on 31-3-2016
1. Surplus	14.14	4.58
2. Over Stock	169.61	159.65

15. Printing Press**15.1 Production :—** The total out-turn of Press/RPM of the year was as under :—

Items	Value of Books and forms printed (in lakh of ₹)	Value of Card tickets printed (in lakh of ₹)	Total
Work done for S.Rly.	806.63	189.36	996.00
Work done for other Rlys.	91.71	41.56	133.27
Total	898.34	230.92	1129.27

15.2 Paper consumption for Press during the year 2015-16

For general stationery Printing of Forms and Books and for stations and ticket offices, Boards – 216 MTs.

15.3 Out-turn of Forms, Money Value Books and Card Tickets. –

Particulars	Books, Forms & Money value Items (In terms of Books)	Card Tickets printed in Numbers
(i) Work done for S.Rly.		
2011-2012	28,42,689	2,69,87,000
2012-2013	31,58,828	3,07,01,800
2013-2014	19,33,483	2,22,46,200
2014-2015	24,01,479	1,54,36,150
2015-2016	10,14,341	1,80,34,750
(ii) Work done for others		
2011-2012	2,86,083	2,68,800
2012-2013	3,12,155	5,76,950
2013-2014	5,72,093	32,33,350
2014-2015	2,01,578	36,84,600
2015-2016	1,65,000	39,58,000

16. Shipping and Imports :

The details of Imported Cargo cleared during 2015-16 is as under :

Sl. No.	Description	Qty.	Qty. in MT	No. of containers
1	Computerised/ Electronically controlled multi colour Rotary Web Offset Printing Machine for printing of Indian Railway Pre-Printed Tickets (Passenger Reservation System) and Un Reserved Ticketing System (UTS) with online Numbering and processing unit for Sprocketing , perforation, Rewinding, Zig-Zag Folding/ Fan Folding, Sheeting unit including Electrical and Electronic devices complete with concomitant Accessories and Spares as per Sepcn. No. RSP/PRS/TP/M and P/ CRTPM/04/RLYS/2010-11, MODEL: ROTATEK – PERFECT NT. Imported against Eastern Railway P.O. No. 15/10/6076/1/41425 dated 20.09.2014. Ultimate Consignee : MPS/Press/S. C. Rly./SC	1 set	58.930 Kgs.	4x 40 Feet and 1x20 Feet Containers
2	EMD Locomotive Component Sets as per Purchase Orders.	189 Items in 30 Cases	4396.58 Kgs.	1x20 Feet Container

17. Right to Information Act .

A total No. of 91 RTI applications were dealt with during 2015-16 and all were disposed within the prescribed time limit. There were four appeals, all of which have been disposed off in time.



XI. चिकित्सा/MEDICAL

ANNUAL REPORT OF HEALTH DEPARTMENT, SOUTHERN RAILWAY 2015 – 16

Introduction:

The Southern Railway Health Department is involved in providing comprehensive healthcare services which include:

- (A) Medical services for disease prevention and health promotion services in the beneficiary population covering important Public Health matters concerning Communicable Diseases and Non Communicable Diseases, Maternal & Child Health, Family Welfare, National Health Programmes, Health Education.
- (B) Monitoring of Drinking Water Quality Standards and Food Safety Standards.
- (C) Industrial Health Services: The Industrial healthcare services include Pre-employment medical examination of Candidates, Periodical Medical Examination of employees, Prevention, Treatment, Monitoring & Reporting of Workplace Accidents in the zone, Health Awareness and Screening at Workplaces.
- (D) Medical Services including primary, secondary and tertiary Health care are provided to approximately 6 lakh Railway serving and retired beneficiaries with their family members through 42 Health Units & 10 Hospitals with the help of 198 Doctors, 515 Nursing Personnel and 1991 Paramedical staff.
- (E) Environmental Health: The Health Department is also responsible for the upkeep of Major Railway Stations in the zone with mechanised cleaning contracts and upkeep of all Railway Colonies with in-house Safaiwalas. Garbage Collection and Disposal Contracts are also in place.
- (F) Planning procurement and distribution of medicines, surgical consumables, and laboratory materials. Material management is only for M&P equipments with logistics to maintain the tangible components of healthcare delivery in a supply chain for efficient functioning of Hospitals & Health Units in the zone.
- (G) Evolving treatment protocols and conducting regular C.M.E (Continuing Medical Education) programmes for Medical Officers and paramedical staff. A regular training programme for Postgraduate DNB Courses are conducted in various departments at the HQ Hospital, Perambur in tune with the latest medical technologies.
- (H) Disaster Management protocols and readiness is maintained through the planned response along the Divisional jurisdictions with availability of two SPART at Chennai & Erode, Nine ARME Scale I and Twenty Eight ARME Scale II in the zone in order to provide prompt medical relief to passengers injured in Railway accidents or disasters.

- (I) Emergency Medical Relief is provided to travelling passengers by the Railway Medical personnel during the journey at Railway Stations enroute. Medical Emergencies reported on board travelling passengers who are injured or taken seriously ill in trains or at Railway stations, on payment, under certain circumstances.
- (J) Voluntary services organization like St John Ambulance are actively involved in training of members in First Aid & Safety along with rescue and relief activities during train disaster and Public Duties.

HEALTH SERVICES

(A) Sanitation and Cleanliness

The Sanitation of 72 A1, A & B (A1-8, A-42 & B 22) major category stations are under the control of Medical Department. These 72 stations are outsourced for Mechanized cleaning service contract. Special cleanliness drives/campaigns are conducted at Railway Stations, Work places, Workshops, Railway Hospitals/Health Units every month. CCTV, Public address systems are being used for creating awareness on cleanliness. All Medical Officers of the Divisions, AHOs, CHI/HIs are monitoring the activities of cleanliness.

Intensified Efforts of special Cleaning Drives & Campaigns viz. Swachh Bharat mission were conducted to provide the best Cleanliness in Railway Premises to the Passengers. The following were the Drives/ Campaigns held in the Year 2015 – 2016:

- Sardar Patel United Clean India Drive at Railway Stations and Trains (11.10.2015 to 31.10.2015),
- Railway colonies (16.12.2015 to 31.12.2015)
- Railway Hospitals & Health Units (15.02.2016 to 28.02.2016)
- Offices, Services Buildings and other work places including Workshops & Production Units (28.02.2016 to 15.03.2016).

National Cleanliness drives under Swachh Bharat Mission were observed from 25.09.2015 to 31.03.2016.

Cleanliness Drives in 2015 - 16	Cleanliness Campaigns in 2015 - 16
1080	648

Health Department of Southern Railway bagged the Railway Board's "Station Cleanliness Shield" for the second consecutive year in a row for 2015 – 16 and Madurai Railway Station bagged the 9th rank in the nationwide IRCTC A-1 category station cleanliness survey.

In a First of the kind five days induction Training for 44 newly recruited Health Inspectors was conducted at Zonal Railway Training Institute, Trichy between 22 - 26 February 2016.

(B) Quality of Water:

The Quality of water supplied at stations and colonies are monitored by conducting regular tests for residual chlorine and for bacteriological and chemical analysis. The details of water samples collected during the year 2015-16 (April-2015 to March-2016) are given below:

Bacteriological test :

No. of samples examined	:	5577
No. of samples found Fit	:	4402
No. of samples found Unfit	:	1175
Percentage fit	:	78.9%

Residual Chlorine Test:

No. of samples Examined	:	62740
No. of samples found Fit	:	50278
No. of samples found Unfit	:	12557
Percentage fit	:	80.0%

(C) FOOD SAFETY

The Food Safety & Standard Act, 2006 was implemented in September 2011 to improve the quality of food distributed in the Railway premises and trains. Food Safety & Standard Wing of Southern Railway started working from August 2011 and New Food Safety and Standards Act 2006 has been implemented from September 2011 onwards. A separate Food safety wing consisting of One Designated Officer at HQ and Food Safety Officer for each Division is functioning to implement this Act throughout Southern Railway. New food licenses to catering units are being issued by this wing, and Food safety awareness campaigns were conducted for Food Handlers & licensees of catering establishments. All the Medical Officers, Assistant Health Officers, Designated Officer, Food Safety Officers and Chief Health Inspectors/ Health Inspectors conducted regular and surprise inspections on static & mobile catering units to improve the quality of food served to the travelling public.

Food samples were collected regularly under Quality Control & FSS Act, 2006 and sent for analysis and action initiated. The details of food samples collected during the year 2015-16 are given below:

Quality Control:

No. of food samples collected:	1079
No. of samples found adulterated/Misbranded/US:	139
No. of found samples found Unsafe:	36

FSSA:

No. of food samples collected:	21
No. of samples found adulterated/Misbranded:	04
No. of found samples found Unsafe:	01

(D) Family Welfare Programme:

Reproductive and Child Health services are rendered to the Railway beneficiaries effectively. Regular well baby clinic, antenatal clinic, post natal clinic, Immunization clinic, well baby shows, Counselling for conception and contraception, Sterilisation services are rendered through the network of Railway Hospitals/ Health Units in Southern Railway. A total of 299 sterilizations and 7 vasectomy operations were performed during the year in Southern Railway.

(E) Disease prevention & Health Promotion:

Disease Prevention & Health promotion are geared up by way of regular Observance of Public Health Importance days, conducting Health Education classes, talks, lecture at Railway Training centres, Railway Schools, Offices, Workshops, Colonies, conducting Wellness camps by screening for life style disorders and School Health Check up camps. The following are the details of the activities in the year April 2015 to March 2016:

DISEASE PREVENTION & HEALTH PROMOTION ACTIVITIES APRIL 2015- MARCH 2016								
DMN	Public Health Important Days		Health Education Sessions		Wellness Camps		School Health	
	No.	Beneficiaries	No.	Beneficiaries	No.	Beneficiaries	No.	Beneficiaries
PER	35	6845	5	465	11	2146	2	746
MAS	23	3372	23	995	46	3897	2	1281
TPJ	16	1828	176	3613	35	4490	1	405
MDU	29	14052	341	7345	75	4177	7	977
SA	23	3504	5	881	20	2886	3	1049
PGT	15	1502	16	3495	35	2765	2	432
TVC	20	10861	220	3935	75	13280	0	0
Total	161	41964	786	20729	297	33641	17	4890

Health Camps were conducted under the above and the details are in the following table;

Health Camps	No. of Camps	Total Beneficiaries	Rly. Beneficiaries	New Hyper tension cases	New Diabetes cases
In Rly. Stations	150	13755	6371	857	657
In Rly. Hospitals /health Units	12	491	432	43	40
Total	162	14246	6803	900	697

Best Health and Family Welfare Centre Shield was awarded to the best performing Divisions / Unit in Family Welfare and Disease Prevention & Health Promotion Activities during Railway week Celebration. Trivandrum Division bagged this shield for the year 2015-16.

(F) HIV/AIDS Control

Various awareness programmes like lecture sessions, talks in Group meetings, Cultural shows, Dramas, Rally, Quiz, Essay/Poster/Painting/elocution contests etc are routinely conducted to create awareness about HIV/AIDS. The current pool size of HIV/AIDS in the Zone is 444, which includes 285 asymptomatic cases and 159 AIDS cases. All the HIV cases are regularly followed up and required care and support have been rendered by the Counsellor attached to the Integrated Counselling and Testing Centers (ICTC)/ RH/PER in Southern Railway. Anti-Retroviral Treatment is being administered at Railway Hospitals Perambur and at Golden Rock to all the people living with HIV Positive to enhance their quality of life.

(G) Pulse Polio Immunization:

Pulse Polio Immunization was given to 31852 children below 5 years during Intensive Pulse Polio Immunization campaign in I Phase from 17.1.2016 to 19.1.2016 and to 29800 children in II phase from 21.2.2016 to 23.2.2016.

(H) Control of Tuberculosis:

Health education classes were conducted by Medical Officers and health education materials were distributed. Screening camps were conducted at Divisional 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.

INDUSTRIAL HEALTH SERVICES

Total Railway Medical Certificates issued	82518
Total Mandays Loss	1005527 Days
RMC Manday Loss per 1000 Employees	9794 Days
Man days Loss due to Injury on Duty	51812 Days
IOD Manday Loss per 1000 Employees	504 Days

MEDICAL EXAMINATIONS	2014-15	2015-16
PRE EMPLOYMENT CANDIDATES ME	8019	13152
PERIODICAL EMPLOYEES ME		
AYE ONE	1293	1792
AYE TWO	3628	5016
OTHER CATEGORIES	858	1208

MEDICAL SERVICES**HEADQUARTERS HOSPITAL PERAMBUR**

The Zonal HQ Railway Hospital, Perambur is a 505-bedded hospital. This is a referral hospital not only for the beneficiaries of Southern Railway, but also for the whole Indian Railways for Cardiology, Cardio-Vascular surgery, Nephrology, Neuro Surgery and Vascular Surgery for which

patients are referred from all over Indian Railways. The 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 MRCS examinations.

1) DEPARTMENT OF CARDIOLOGY:

The department of Cardiology and Cardiac Surgery is an all India Referral Centre for all types of heart diseases. This is an all India referral centre 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 429 PTMC, PTCA, PVP, PTR and 1799 Cardiac Catheterization and Coronary Angiography were performed last year.

In the year 2015-2016, 639 Open Heart Surgeries and 33 closed Heart Surgeries (this includes various surgical procedures for coronary artery diseases, congenital heart disease and rheumatic heart disease) were done.

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 NEUROSURGERY:

The 1 year old Neurosurgery Department specialises in treating diseases of the brain, spinal cord and nerves and carries out major neurosurgical operations yearly with the latest diagnostics and surgical equipment.

3) DEPARTMENT OF NEPHROLOGY:

A full-fledged nephrology unit with all therapeutic measures, short of transplant are being done here. However, a transplant programme with empanelled private hospital is in place. In 2015-16, 5971 haemodialysis, 5 Renal transplants, 23 CAPD (continuous ambulatory peritoneal dialysis) were performed.

4) DEPARTMENT OF GENERAL MEDICINE:

This department has a total of 142 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, and Bronchoalveolar Lavage and Transbronchial biopsy, EEG, Renal biopsy, Spirometry, Ventilator assistance, pacemaker Implantation etc.

Well-equipped intensive care unit with non-invasive and invasive diagnostic techniques is available for effective management of medical emergencies. 1464 endoscopies were performed during the year. This department is recognized by National Board of Examinations for Post Graduate degree in medicine.

5) 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. Latest equipments like contact laser, Fibre-optic endoscopes and laparoscopic surgical equipments backed by efficient team of qualified surgical expertise are available in this Department.

All types of surgeries are carried out by our eminent surgeons. This department is recognized by National Board of Examinations for Post Graduate degree in General Surgery.

6) DEPARTMENT OF OBSTETRICS & GYNAECOLOGY:

The Obstetrics & Gynaecology department has got 52 beds in its wards. Around one thousand deliveries are conducted every year. This department is well-equipped and offers good quality service to the patients. This department is recognized by National Board of Examinations for Post Graduate degree in Obstetrics and Gynecology.

7) DEPARTMENT OF PAEDIATRICS:

The Department of Pediatrics has got 60 beds in its wards. This department is well equipped and offers good quality treatment to the patients. Neonatology ICU is also available. This department is recognized by National Board of Examination for post graduate degree in Pediatrics.

8) DEPARTMENT OF PSYCHIATRY:

A full-fledged department of Psychiatry is functioning in this hospital. De-addiction centre, Memory clinic, counselling Centres are available to conduct regular awareness programmes every month for employees. Alcohol and Drug related counselling services are also provided by the AD Counsellor.

9) DEPARTMENT OF ORTHOPAEDICS:

The department of Orthopaedics has been upgraded and all orthopaedic surgeries including spinal surgery, hip and knee replacements are being done in this department. This department is recognized by National Board of Examination for post graduate degree in Orthopaedics. As special surgeries in 2015-16, a total of 22 Hip replacement surgeries, 24 Knee replacement and 22 Hip modular Bipolar, Hemi-arthoplasty surgery were conducted.

10) DEPARTMENT OF CHEST DISEASES & PULMONARY MEDICINE

The Department is a referral centre for Lung diseases like COPD, Asthma, Tuberculosis, Sleep associated respiratory disorders & Cancer cases which is also having facilities for Pulmonary Function Tests, Bronchoscopy, Broncho Alveolar Lavage as diagnostic procedures.

11) DEPARTMENT OF OTOLARYNGOLOGY:

The ENT department has got full-fledged endoscopic facilities, Micro-laryngeal surgical facilities and Micro Ear surgery facilities. Airway Laser surgical procedures are regularly done.

12) DEPARTMENT OF OPHTHALMOLOGY:

Intra-ocular lens implantation and other routine procedures are done in Ophthalmology. 2171 cataract operations were performed during the year 2015-2016.

13) DEPARTMENT OF RADIOLOGY:

The Department of Radiology has facility to Radiographs, Ultrasonogram and Contrast studies.

14) 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. This is the only NABL accredited Laboratory in Indian Railways.

15) DEPARTMENT OF DENTISTRY

This Department has 3 Dental Units with Dental chairs and is performing Maxillofacial surgeries, Root Canal Treatments, Dental Impaction Surgeries, Cyst Extraction/ Enucleation surgeries, Dental Extraction, fillings and Scaling procedures. Oral Health Awareness sessions are also conducted for the benefit of patients and during School Health Sessions.

16) DEPARTMENT OF DERMATOLOGY & VENEROLOGY

The department is a zonal referral centre for treatment of Skin and STD related disorders with facility of Electrocautery, Radio Frequency Ablation and Photo therapy Unit for treatment of Chronic Skin Conditions.

ZONAL MEDICAL CARE 2015-16

Total Outpatients	2086894
Total Inpatients	36435
Major Surgeries	3180
Minor Surgeries	1548
Special surgeries	3313

CHENNAI DIVISION:

The Medical Branch Headquarters of Madras Division is at Madras Egmore and Chief Medical Superintendent is in-charge of the division. The Divisional hospital is located at Arakkonam. It has 50 beds with a Operation Theatre, Laboratory. Dental clinic is functioning at Health Unit, Egmore. X-ray facilities are available at Egmore and Arakonam with 300 MA and 50 MA X-ray machines. The family welfare centre for the Division is functioning at Egmore, which conducts Health Awareness & Screening programmes.

Chennai Division has eleven Health Units located at Jolarpettai, Katpadi, Haffieldpet, Avadi, New General Office, Chennai Egmore, Tondiarpet, Royapuram, Tambaram, Chenglepet and Sullurpet.

TIRUCHCHIRAPPALLI DIVISION:

There is a Divisional Hospital for Tiruchchirappalli Division at Golden Rock. Railway Hospital/Goldenrock caters to Tiruchchirappalli division with the one Sub Divisional Hospital at Villupuram and 8 health units. In the Divisional Hospital all routine and specialized medical services are being rendered in all the fields. The Divisional Hospital has been recognised by MCI for Senior House surgeonship. Family Welfare Centre at DRH/GOC provides RCH, Immunisation and contraceptive services. All Disease Prevention and Health Promotion Activities are conducted by this centre.

Tiruchchirappalli Division has eight Health Units located at Tiruchchirappalli Junction, Trichy Fort, Srirangam, Virrdhachalam, Tiruvannamalai, Mayiladuthurai, Tiruvarur and Thanjavur.

MADURAI DIVISION:

All the regular secondary and specialized medical services are being rendered at Divisional Railway Hospital Madurai. Family Welfare Centre at RH/MDU provides RCH, Immunisation and contraceptive services. All Disease Prevention and Health Promotion Activities are conducted by this centre.

*Madurai Division has 9 Health Units located at Dindigul, Mandapam, Palani, Karaikudi, Sengottai, Tuticorin, Manamadurai, Tirunelveli and Virudhunagar.

PALGHAT DIVISION:

The Divisional Hospital at Palghat offers regular & specialized medical services. It has a well equipped ICCU unit. This hospital is also recognized by MCI for Senior House Surgeonship. The Sub-Divisional Hospital at Shoranur is also well equipped. Family Welfare Centre at RH/MDU provides RCH, Immunisation and Health Promotion Activities are conducted by this centre.

Palghat Division has four Health Units located at Mangalore, Cannanore, Calicut and Pollachi.

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 and caters for medical care services to the Railway Beneficiaries. Disease prevention and health promotion activities are conducted by the Family Welfare Staff attached to CMS Office.

Salem Division has four Health Units located at Salem, Mettupalayam, Karur and Coonoor.

TRIVANDRUM DIVISION:

The well equipped 50 bedded Divisional Hospital at Trivandrum Pettah and one Medical out post at Thycaud provides regular and specialized medical services to Railway Beneficiaries. A Dental clinic is also functioning at DRH/TVC. In the Divisional Hospital Pettah, facilities for X-ray, ECG & Lab. Investigations are available. A physiotherapy unit with all major equipments is also functioning. One Intensive Care Unit with 4 Beds are also available. Disease prevention and health promotion activities are conducted by the Health Inspectors.

Trivandrum Division has six Health Units located at Ernakulam, Quilon, Kottayam, Nagercoil, Trichur and Alleppey.

BEST HEALTH UNIT

To improve efficiency of health services and to ensure patient satisfaction, Rolling shield for best Health Unit is given to the best maintained Health Units in the zone every year. In 2015-16 Health Unit/Mangalore of Palghat Division was adjudged as the Best Health Unit and the shield was presented by GM during the Railway week celebrations in April 2016.

DISASTER MANAGEMENT

ACCIDENT RELIEF MEDICAL EQUIPMENT (SCALE I & II) LOCATIONS:

Division	ARME Scale I	ARME Scale II	
	Broad Gauge	Broad Gauge	Narrow Gauge
Madras	Chennai (SPART) Jolarpettai,	Arakonam, Katpadi Sullurpet	...
Trichy	Tiruchchirappalli (SPART) Villupuram	Virudhachalam Manamadurai Tiruvannamalai	...
Madurai	Madurai (SPART) Sengottai	Dindigul Karaikudi Manamadurai Mandapam Virudhunagar Tirunelveli, Tuticorin palani, Sengottai	...
Palghat	Mangalore, Shoranur	Kannur, Kozhikode, Palakkad, Pollachi	...
Trivandrum	Ernakulam (SPART) Trivandrum	Nagercoil, Trichur, Kollam, Kottayam, Allapuha	...
Salem	Erode (SPART)	Podanur, Salem, Karur	Coonoor

SOUTHERN RAILWAY HEALTH DEPARTMENT ACHIEVEMENTS

Medical Services:

1. A New Divisional Railway Hospital with 60-bed capacity and multi-speciality wings constructed at a cost of 5.5 crore with state-of-art facilities was commissioned at Erode in Salem Division on 29th March 2016.
2. A New Digital Radiography Unit with mobile kit was installed in the New OPD Block of the Headquarters Hospital Building on 11.03.2016 .An Ultrasound Machine for noninvasive imaging has been installed at Divisional Railway Hospital Arakkonam in Chennai Division on 17.03.2016.
3. Southern Railway bagged the Railway Board Station Cleanliness Shield for the second consecutive year in a row for 2015 and Madurai Railway Station bagged the 9th rank in the nationwide IRCTC A1 Category Station Cleanliness Survey.
4. Southern Railway Headquarters Hospital has been a pioneering tertiary care center over Indian Railways. During the period 2015-16, 639 Cardiothoracic Surgeries, 62 Neuro Surgeries, 54 Vascular Surgeries and 1799 Cardiology based interventions in Super Specialty medical care were provided for patients.
5. All India Railway Surgical Conference ARSICON 2015 was held at Southern Railway Headquarters Hospital, Perambur, Chennai from 27- 28 Nov 2015.
6. The Department of Orthopaedic Surgery at Railway Hospital, Perambur of Southern Railway conducted the Annual conference of Indian Railways Orthopaedic Surgeons Association on 17.02.2016 & 18.02.2016 at Southern Railway Headquarters Hospital, Perambur, Chennai.
7. Medical Relief Measures were provided to the Flood affected passengers and victims at Chennai and Cuddalore by the Health teams round the clock with intensive treatment and disease prevention measures in the affected population in December 2015.

Public Health Services:

1. A Health Induction programme for the new 40 Health Inspectors recruited for Southern Railway was conducted at Zonal Railway Training Institute at Trichy wef 22.02.2016 – 26.02.2016.
2. In the recently announced IRCTC & TENS Station Survey, two stations Kumbakonam & Salem from Southern Railway managed by Health Department were placed in Top 10 clean stations of Indian Railways and three divisions Salem, Tiruchirapalli, Madurai were placed among the best 15 divisions in Indian Railways.

3. The Health Department has conducted 1735 Cleanliness related campaigns in for improving the State of Cleanliness in Railway Areas under Swachh Bharat Abhiyan. 1091 food samples were collected for analysis under Quality Control & Food Safety and Standard Act in the Zone in 2015-16.

4. In 2016, 786 Health Awareness and 297 Medical Screening Camps were conducted in the Zone benefiting 54370 employees and beneficiaries.

5. Food Safety Awareness Programme for Licensees and Food Handlers regarding safe cooking, handling and storage of food items as per FSSAI Guidelines was given at major stations (Chennai Central, Chennai Egmore, Palghat, Tiruchchirapalli, Salem, Madurai, Calicut, Mangalore and Ernakulam) in the zone.

St. JOHN AMBULANCE

The 20th Southern Railway district of SJAB is functioning effectively and First Aid Training to staff are imparted regularly. The following are the highlights of SJAB activities during the year.

Number of First AID Training imparted : 29

Number of Employees who were trained in First AID : 1649

The SJAB Provided Relief work at Pulianthope, Velachery, Manali during the Heavy Rain & Flood in Chennai in Decermber 2015 and organized First Aid Booths services at Punalur and Kumbakonam Railway Stations during the Sabarimala & Mahamaham Festivals. It also participated and assisted District Administration of Trichy District in creating Road Safety Awareness.

49th Annual District Training Camp was held at MDU from 7.9.2015 to 11.9.2015. Mock Drill on Rescuing victims & Passengers from bomb blast of a train was held at Madurai A New Central Division at Zonal Head Quarters with induction of new 100 trained members was commissioned in 20th District on 26th January 2016.

The 10th Officers Training camp of No. 20th District St. John Ambulance southern Railway was held at Ketti, Nilgiris from 4th – 6th February 2016 to update the knowledge about duties and responsibilities along with Organisational Skill building among officer Rank members.

STATISTICS FOR THE YEAR 2014-2015 AND 2015-2016

Sl. No.	Particulars	2014-15	2015-16
1	Total No. of staff ..	1,03,159	1,02,667
2	Cost of Medical services ..	1,96,41,28,000	2,18,68,51,000
3	Cost of Medical services .. per head per annum.	19,039.81	21,300.42
4	Cost of Health service in thousands of rupees	2,97,728	3,10,514
5	Cost of Health service per head per annum.	2886.10	3024.47
6	(a) Cost of drugs in rupees..	66,60,05,000	67,42,17,000
	(b) Total amount of reimbursement in rupees.		
7	Total cost of Medical & Health service per annum per head in Rs.	21,925.91	24,324.89
8	No. of Rly. employees & their families treated – New cases.	4,51,597	4,69,171
9	No. of females & children treated – New cases	2,27,361	2,83,535
10	Daily average – out door attendance of Rly. employees & their families at Rly. Hospital/ health units/old & new cases	4,100	4,023
11	No. of Hospital ..	10	10
12	No. of Health Units		
A	With beds ..	41	41
B	Without beds ..	1	1
13	No. of Railway population per Railway Hospital/ health unit.	9732	9686
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 ..	862	907
B	TB ..	57	36
C	Maternity ..	126	102
D	Isolated ..	5	5
E	ICCU ..	85	85
	Total ..	1135	1135
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.	1205	1205
20	No. of beds per 1000 Rly. employees including TB beds.	11.0	12.0
21	No. of beds per 1000 Rly. employees excluding TB beds.	10.06	11
22	No. of TB beds reserved in railway institutions.	0	0

23	No. of Doctors	2014-2015	2015-2016
A	Chief Medical Director	1	1
B	Chief Health Director	1	1
C	ACMD/T&A	1	1
D	Dy.CMD/H&FW	1	1
E	Medical Director/ Chief Medical Superintendent	6	6
F	SAG		
G	SG		
H	JAG	188	188
I	SS&JS		
	Total	198	198
24	No. of Rly. Population per Rly. doctor	2659	2646
25	No. of mobile vans	0	1
26	Accident Relief Medical Equipment		
A	ARME scale I	11	11
B	ARME scale II	26	26
27	No. of Operations Performed		
A	Major	6082	4474
B	Minor	3394	2599
C	Trivial	11030	11235
28	Family Welfare Activities		
A	Centres	4	4
B	Sub- Centres	2	2
29	No. of Sterilization operation performed		
A	Tubectomy	348	300
B	Vasectomy	11	7
	Total	359	307
30	No. of I.U.D. inserted	102	49
31	No. of conventional contraceptives distributed		
A	Condom usage per 1000 employees	1225	1042
	Oral pills		
A	No. of oral pills	603	118
B	No. of users of oral pills	46	9



XII. कर्मचारी/STAFF

1. General

During the year under review cordial and harmonious relations were maintained in this Railway.

2. Number and cost of Staff for 2015-2016 compared with 2014-2015.

Group of Staff	Number of staff					
	Open line		Construction		Total	
	2015-16	2014-15	2015-16	2014-15	2015-16	2014-15
Group 'A'	512	491	105	134	617	628
Group 'B'	420	451	70	90	490	541
Group 'C'	88,817	88,346	1,304	1,392	90,121	89,638
Group 'D'	2840	986	17	17	2857	1003
Total	92,589	90,177	1,496	1,633	94,085	91,810

Cost of staff (Rs. in lakhs)

	2015-2016	2014-2015
Group 'A'	18,314.98	20,124.67
Group 'B'	8,519.64	10,027.33
Group 'C'	7,14,384.3	6,54,714.95
Group 'D'	6,355.96	2,282.45
Total	7,47,574.88	68,714.94

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 2015-2016			No. actually appointed in 2015-2016		
	SC	ST	OBC	SC	ST	OBC
Group 'C' & Erstwhile	1,403	679	2,445	1,743	1,107	2,900
Group 'D'						

* Note : (*) Total Number of SC/ST employees appointed is including own merit concept also.

* Not maintaining Erstwhile Gr. : D' separately

(b) Promotion of S. C. /S. T. candidates in Group 'C' & 'D' Services : 2015-2016.

(i) Selection posts				
Category	No. of vacancies reserved		No. of employees actually promoted	
	Scheduled Castes	Scheduled Tribes	Scheduled Castes	Scheduled Tribes
Group "C" including Erstwhile	*	*	371	130
Group 'D'				

ii) Non Selection posts

Category	No. of vacancies reserved		No. of employees actually promoted	
	Scheduled Castes	Scheduled Tribes	Scheduled Castes	Scheduled Tribes
Group "C" including Erstwhile	*	*	1898	914
Group 'D'				

Note : (*) Vacancy details are not available at Special Reservation Cell/HQ. However total number of vacancies filled on both selection & non-selection is available and the same is furnished above.

* Not maintaining Erstwhile Gr. 'D' separately.

c) Shortfall of SC/S.T/OBC as on 31st March 2016

Recruitment Categories	SC	ST	OBC
Group 'C' including Erstwhile Group 'D'	199	237	120

* Not maintaining Erstwhile Gr. : D' separately

(d) Short fall in SC/ST as on 31st March 2016.

Promotional Categories	Scheduled Castes	Scheduled Tribes
Group 'C' including Erstwhile Group 'D'	1,179	735

* Not maintaining Erstwhile Gr. : D' separately.

e) Statement showing the number of employees belonging to Scheduled Caste and Scheduled Tribe as on 31-03-2016.

Group	Total No. of employees as on	Scheduled Castes	Percentage	Scheduled Tribes	Percentage
Group 'A'	612	110	17.8	43	7
Group 'B'	504	114	22.06	28	5.6
Group 'C' including Erstwhile Group 'D'	91,244	17,604	19	7464	8
Group 'D' Safaiwala)	1,334	538	40	64	4.8

4. Recruitment and Training

4.1 Recruitment :

(A) (i) Group "A" and "B" Service— Permanent appointment to Group "A" as well as appointment to Group "B" service that were made during the year 2015-2016, are as follows :-

Department	Group 'A'	Group 'B' (Promotion)
Personnel ..	..	1
General Management	1	6
Electrical ..	6	6
Transportation (Traffic & Comm.)	..	2
Engineering ..	5	..
Stores ..	1	5
S & T ..	5	..
Medical ..	..	..
Mechanical ..	..	..
School ..	..	1

(ii) Number of Group 'B' Officers absorbed in Group 'B' during the year 2015-2016.

IRPS-3, IRSEE-Nil, IRTS-3, IRSE-18, IRSS-1, IRSSE-Nil, IRSME-Nil.

4.1 (b) (ii) Number of persons appointed against physically handicapped quota and on Compassionate grounds for the year 2015-16.

	Group 'C'
(a) No. of physically handicapped persons appointed.	355
(b) No. of Persons appointed on Compassionate grounds	470

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4.2. (b) Training - Group 'C' Staff :

Sl. No.	Branch	Initial	Refresher	Promotional	Special	Total
1	Mechanical	3750	1300	500	6500	12050
2	Electrical	1531	751	680	411	3373
3	Engineering	1800	2880	120	1823	6623
4	S&T	545	338	180	400	1463
5	Traffic & Comml.	1362	2259	780	2791	7192
6	Personnel	..	..	..	..	..
	Total	8988	7528	2260	11925	30701

4.2. TRAINING :

(a) (i) Group 'A' and 'B' Services.

Staff Strength on Southern Railway Department wise as on 31.03.2016.

Department	Group 'A'	Group 'B' (Promotion)
General Management	26	44
Personnel	13	42
Accounts	34	58
Engineering	106	140
Transportation (Traffic & Comml.)	53	46
Mechanical & CMT	41	46
Stores & Press	35	20
Electrical	48	77
Signal & Telecommunication	26	81
Medical	145	18
Security	23	-
Railway Schools	-	9
Total	550	582

(a) (ii) The number of officers who attended the training courses during the year 2013-2014 are as follows :

Training Institutions	Mandatory Cours
RSC-Vadodara	22
IRICEN-Pune	55
IRISET-Secunderabad	27
IRIMEE-Jamalpur	14
IRIEN-Nasik	35

4.3 Statement for the Financial year ending 31st March 2016 Regarding Privilege Passes and P.T.Os issued to Railway Employees :—

Class	Group	Privilege Passes			PTOs		
		No. of Rly. Employees to whom issued	No. of Seats Available	No. of Persons Included	No. of Rly. Employees to whom issued	No. of Seats Available	No. of Persons Included
Class 'A'	'A'	658	3948	6896	640	2720	10880
Group	'B'	599	3594	10782	593	4744	14122
Class	'C'	29507	88521	354082	29500	118000	544000
II Class	'C'	46868	140604	703020	34984	139936	999680
III AC	'C'	1485	5940	18080	9400	37600	65200
II Class	'D'	39059	156226	322452	25848	77244	103392

4.1 (b) (i) Appointments in Group 'C' and Group 'D' categories for the year 2015-16

Group 'C'	No. indented	No. supplied
I. Technical ..	1169	1156
II. Non-Technical ..	278	186
III. NTPC ..	28	24

4. (b) (ii) Recruitment of non-gazetted staff for the year 2015-16 are as under :—

Year	Gr. C	Gr. D)	Total
2013-2014	2664	688	3352
2014-2015	2462	4311	6773
2015-2016	1366	10771	12137

4. (b) (i) Number of persons appointed against physically handicapped quota and on Compassionate grounds for the year 2015-16.

Group 'C'

a) No. of Physically Handicapped persons appointed. 355

b) No. of persons appointed on Compassionate grounds. 470

5. Relations with Labour :

Industrial relations play a vital role in any industry for improving productivity. Indian Railways being one of the major industries pay much attention for maintaining cordial industrial relation. There are 2 recognized federations at the apex level viz. AIRF & NFIR. Southern Railway Mazdoor Union (a Constituent of AIRF) is the only recognized Union at Zonal level.

The Permanent Negotiating Machinery (PNM) is functioning at three levels viz. Railway Board, Zonal level and Divisional/Extra Divisional level. The PNM meetings are conducted regularly and the problems are sorted across the table after mutual consultations with each other to the best satisfaction of the both the Organized Labour and the Administration. Besides, PNM meetings, Joint/Special meetings are held to sort out the various day to day issues. Apart from this, Organized Labour is having their members in Central/Divisional Staff Benefit Committee, Housing Committee, Canteen Committee, Hospital visiting committee etc. for better co-ordination and Understanding.

PREM:

Participation of Railway Employee in Management is effectively followed. The members of recognized Trade union and Associations of staff and Associations representing officers are regular meeting and discussing various issues for developing the Railway system.

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 are being implemented to the satisfactory level. The executive departments are implementing the Minimum wages Act and other Labour Acts whenever applicable.

7. STAFF WELFARE ACTIVITIES**(i) Labour Welfare**

The Welfare Organisation consisting of Staff & Welfare Inspectors headed by Sr. Divisional Personnel Officers, Divisional Personnel Officers, Workshop Personnel Officers and Senior Personnel Officers maintain regular contacts with employees and render assistance to staff in redressal of their grievances.

Staff Information Centres at all Divisional Headquarters and at Major Stations and Sheds provide information and assistance to staff on all Personnel and Welfare matters. These centres have been found to be of immense help to the staff. Staff & Welfare Inspectors have also been nominated exclusively to attend to the grievances of the sensitive categories of staff. Grievance Adalats are held periodically at nominated stations.

Pension Adalats and Mid-term Pension Adalats are conducted every year mid December and mid July respectively to redress the grievances of the retired employees. Preretirement counselling is also arranged once in three/four months to guide the employees retiring on superannuation.

"Social Security Scheme" is a Welfare scheme introduced by Railways for the benefits of Group 'C' and Group 'D' employees. A nominal amount is collected from every employee, who is a member of this scheme and the amount so collected is utilized as death relief i.e. to give financial assistance to the heirs of the deceased employees at the time of employee's death. This is purely a voluntary scheme. The scheme is managed by a committee consisting of Officers and the members of the Organized Labour at the Divisional and Headquarters level. The scheme also extends the benefits to the employees at the time of their retirement on superannuation /voluntary retirement duly presenting them with a 'Wrist Watch' and an 'Executive folder'.

There are Fifteen Rail Kalyana Mandapams existing in this Railway. A nominal and affordable rent is being charged to the serving employees to hold various functions like Marriage, Wedding Reception etc.

(ii) Railway Schools

There are Nine Railway Schools (i.e., three Higher Secondary Schools and six High Schools) in English medium and one Malayalam medium school situated in the Territorial jurisdiction of this Zone, spread over Tamil Nadu and Kerala States, to extend educational facilities mainly to the wards of Railway Employees.

About 3189 children had studied in the Railway Schools during the year 2015-2016.

(iii) Staff Benefit Fund :**(a) Educational Assistance :**

Scholarship was given to 7990 Railway wards for prosecuting Professional/Technical education as well as Non-Professional/Non-Technical education. The total expenditure incurred in respect thereof from the Central Staff Benefit Fund is as under :

Professional/ Technical Degree		
Courses :	6943 x7600/-	= RS. 5,27,66,800/-
Professional/ Technical Diploma		
Courses :	344 x7000/-	= Rs. 24,08,000/-
Non Professional/ Non Technical		
Degree Courses :	703 x5500/-	= Rs. 38,66,500/-
		Rs. 5,90,41,300/-

(Rupees Five crores ninety lakhs forty one thousand three hundred only)

(b) Cash award to Meritorious Students:

Meritorious cash award is being sanctioned to Railway Wards who have obtained 90% and above in standard X & XII

(c) Book Bank :

Under the auspices of CSBF, the Southern Railway Book Banks have become very popular.

Altogether seven Book Banks are functioning at Hqrs. TPJ, MDU, PGT, TVC, PTJ and SA. These Book Banks cater to the needs of the wards of Railway employees pursuing Professional/Technical courses.

A sum Rs.8,50,000/- (Rupees Eight lakhs fifty thousand only) has been sanctioned towards grant for Book Banks during the year 2015-2016.

(IV) SCHEMES OF BENEFITS TO THE SICK :**1. Financial Assistance towards 'Relief of Distress/ Sickness.**

The following assistance were made under this head.

Type of Honorarium	Amount in ₹.
Honorarium to Barber @ RH / PER-	Rs14,867/-
Honorarium to HIV/AIDS Counselors, Lab Technician in Railway hospital/HUs.	₹.1,57,500/-
Honorarium to Alcohol /Drug Counselors in Railway hospital/PER.	₹. 78,387/-
Provision of Light refreshment to Blood Donors at RH/PER.	₹. 1,77,539/-
Funeral expenses to the families of serving employees who had expired in Railway hospitals.	₹. 7,80,000/-
Assistance for sickness to all eligible Non-Gaz. employees	₹. 26,75,000/-
Honorarium to Speech Therapist at RH/PER	₹. 1,47,804/-
Assistance for mentally/physically challenged employees & wards	₹. 33,74,900/-

2 Indigenous system of medicine:

a) In order to provide medical assistance to such of those employees and their family members who are desirous of having treatments under indigenous system of medicines like Homoeopathy/Ayurvedhic, the following Homoeopathy / Ayurvedhic dispensaries are functioning in this Railway on part time basis :—

Headquarters Office/NGO/MAS	-	Homoeopathic Dispensary
Ayanavaram/MAS	-	Homoeopathic Dispensary
Madurai Dn.	-	Homoeopathic Dispensary
Palakkad Dn. (PGT)	-	Homoeopathic Dispensary
Tiruchchirapalli Dn. (TPJ)	-	Homoeopathic Dispensary
Golden Rock Workshop (GOC)	-	Homoeopathic Dispensary
Podanur Workshop (PTJ)	-	Homoeopathic Dispensary
Shoranur (Palakkad Dn.) (SRR)	-	Ayurvedhic Dispensary
Cannanore (Palakkad Dn.) (CAN)	-	Ayurvedhic Dispensary

An amount of ₹. 9,77,857/- has been utilized in all the Homoeopathic / Ayurvedhic Dispensaries during 2015 - 16.

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	-	2
(iii) In other Railway Buildings	-	Nil

(V) RECREATIONS AND AMUSEMENT :**1) Holiday Camps :**

Holiday camps for Men/Women employees as well as Children of the employees are being conducted regularly in this Railway under the auspices of Staff Benefit Fund Sub-Committees.

Details of Camps conducted in the year 2015 -16 is given below :

DN/ Unit	Holiday Camp Conducted During 2015-16	No. of Participants	Amount Spent ₹.	Places Visited
SA	Family	50	5,05,300/-	Delhi/Agra
	Family	68	2,16,860/-	Wayanad
	Employees	70	3,34,543/-	Alleppy/ERS
TVC	Family	120	4,52,710/-	Munnar
	Female	60	2,12,122/-	Goa
	Male	68	2,43,168/-	Goa
GOC	Men	43	3,52,046/-	Goa
PTJ	Men/Women	65	1,80,000/-	Alleppy
MDU	Men/Women	59	7,10,292/-	Simla, Amritsar Kulumanali
TPJ	Men	62	7,00,000/-	Goa
PGT	Family	93	2,50,000/-	Munnar
CW/ PER	Children	42	1,68,216/-	Nagarkoil, CAPE,MDU
MAS	Men	56	2,78,075/-	MAQ & Goa
	Women	67	3,79,520/-	VSKP, Araku Valley Bora Caves & HYB

2. Promotion of Cultural activity

- (a) Expenditure towards Inter Railway Culture Competition. ₹ 5,000/-
- (b) Expenditure for Cultural Activities at Rly. Schools is ₹5,00,000/-

3) Women empowerment activities including Higher education for girls.

- a) Women's Day Celebration at HQRS ₹ . 50,000/-
- b) Women's Day Celebration at CAO/CN ₹ . 20,000/-
- c) Allotment to HQrs. & Divisions ₹ . 5,250,000/-
- An adequately furnished Model Rest Room for ladies has been opened at Headquarters office.

SALIENT FEATURES OF SOUTHERN RAILWAY WOMEN'S WELFARE ORGANISATION (SRWWO)

1. Ashraya:

A School for mentally challenged wards of Railway men and outsiders is being run by the Southern Railway Women's Welfare Organization (Headquarters) Chennai. There are 28 Children on roll with varying degrees of IQ who are trained in academics and vocation. Computer education is also imparted to the students. The students are provided with all necessary physiotherapy equipments. "Early Intervention" for the age group from 3 years onwards has been started to impart basic skills to them. Apart from the Headquarters organization, such schools for differently-abled children are run by Southern Railway Women's Organization/ Tiruchchirappalli (Udaya) and Southern Railway Women's Organization/Madurai (Akshaya).

2. Welfare:

A Creche named "Blossoms" with strength of 23 is run at Perambur for the benefit of working parents.

3. Shop:

A retail shop with name "Swabhimani" is functioning at Railway Hospital, Perambur to cater to the needs of inpatients/and their family members.

4. Other Activities:

Tiruchchirappalli and Chennai Division have schools up to 10th Standard. Primary classes at Palghat and Trivandrum are run by this organization.

Handicraft Centers for the wives and wards of Railway men are functioning 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.

Any other matter not covered by the detailed heads mentioned above is – Nil.

7 (V) Sports activities :

Arjuna Award 2015 :

The Government of India has awarded the prestigious ARJUNA AWARD for 2015 to Shri S. Satish Kumar our weightlifter for his Gold Medal winning feat in the Commonwealth Games 2014.

ACHIEVEMENTS OF SOUTHERN RAILWAY SPORTS PERSONS IN THE INTERNATIONAL MEETS :

Athletics :

Ms. Tintu Luka has participated in the 21st Asian Athletic Championships at Wuhan (China) from 3rd to 7th June 2015. She won the Gold in 80m and a Silver in 4X400m Relay. Ms. P.T. Usha was the Coach for Tintu Luka at the Championship. Ms. Tintu Luka has participated in the 15th World Champ at Beijing (China) from 23rd to 30th August 2015. Ms. P.T. Usha was the Coach for Tintu Luka at the Championship.

Shri Manikanda Arumugam was selected for Asian Grand Prix Series at Thailand from 22 to 26 June.

Basketball Men :

Shri B. Carmel Joseph has represented Indian Railways at the 19th International Railway workers Basketball Championship at Profondeville (Belgium) from 23rd to 30th May 2015.

Basketball Women :

Ms. Anitha Apoorv Muralinath, Ms. Raja Priyadarshini and Ms. Smruthi Radhakrishnan were members of the Indian team for the Asian Basketball Champ at Wuhan, China from 29th Aug. to 5th September 2015.

Billiards & Snooker :

Shri Rafath Habib has represented India at the World Masters Snooker at Bengaluru in March 2015 and Hurghada Egypt in November 2015. He has also represented India at IBSF World Team Snooker and World Red 6 Snooker Championship at Karachi from 6th to 15th August 2015.

Cricket (women) :

Ms. M.D. Thirushkamini and Ms. Niranjana Nagarajan represented India in Test and One day Series against New Zealand held in Bangalore in June-July 2015. India won the Series. They have been a part of Team India at world T 20 in India in March-April 2016.

Hockey:

Shri C.R.Kumar was Coach of Indian Womens Hockey team at World League Semi Final at Antwerp, Belgium from 20th June to 4th July 2015.

Powerlifting:

Shri S. Nagarajan was Coach of Indian Powerlifting team at Asian Powerlifting Championships at Hong Kong from 20th to 25th July 2015.

Swimming:

Shri Wilson Cherian was the Coach for the World Junior Swimming Championships at Singapore from 20th to 28th July and Asian Age Group Swimming Championships at Bangkok from 18th to 23rd August 2015.

Volleyball (Men):

Shri Piraisoodan & Shri Manu Joseph has represented Indian Railways at the 16th USC Volleyball Championship at Gornes Belarus from 19th to 17th June 2015. Indian Railway Won the Title here. Shri Manu Joseph has represented India at the Asian Volleyball Championships at Dubai in July-August 2015.

Shri Piraisoodan has represented India at the Asian U-23 Volleyball Championship at Myanmar in May 2015. Shri T. C. Jotish was the coach of the Indian Team.

Volleyball (Women):

Ms. Poormina has represented India at the Asian U-23 Volleyball Championship at Philippines in May 2015. Shri Aboobacker was the coach of the Indian Team.

Weightlifting:

Shri S. Satish Won Gold Medal in Commonwealth Weightlifting Championships held at Pune in November 2015. He has also participated in the World Championships at Houston, USA from 10th to 29th November 2015.

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8. Provision of Staff Quarters :

Provision of Staff Quarters		Programmed Quarters No. of Quarters completed				Quarters involved in schemes, new lines, doubling etc. No. of quarters completed						
Sl. Nos.	Type of Qtrs.	No. of units	2014-2015 Approximate cost (₹ in lakhs)	2015-2016 No. of units	Approximate cost (₹ in lakhs)	No. of quarters under various stages of construction as on 31st March-2016	2014-2015 No. of units	Approximate cost (₹ in lakhs)	2015-2016 No. of units	Approximate cost (₹ in lakhs)	No. of quarters under various stages of Construction as on 31st March 2016	Total No. of quarters provided upto 31st March, 2016, including quarters involved in schemes, new lines-doubling, etc;
1	2	3	4	5	6	7	8	9	10	11	12	13
1.	Type I	..	..	..	..	..	..	..	..	..	..	1736
2.	Type II	41	406.33	105	1019.46	211	..	..	3	33.09	16	918
3.	Type III	33	327.89	2	21.49	21	..	..	41	562.15	..	477
4.	Type IV	2	60.00	2	31.60	6	..	..	12	209.00	..	306
5.	Type IV (Special)	..	..	..	..	..	..	..	..	..	..	..
6.	Type V	..	..	13	390.00	..	..	..	..	..	..	20
7.	Barracks	..	..	..	..	..	..	..	..	..	..	..

II. Improvements to old type quarters have been carried out during the year 2015-2016 at an estimated cost 599.64/- Lakhs.

Chapter XII/Para 9-Provision of Staff Quarters.

(ii) The position regarding quarters for Class III and Class IV as indicated below.—

Sl. No.	Category	No. of staff Qrs. as on 31st March 2016		No. of Staff Quarters available as on 31st March 2016
		Essential	Non-Essential	
1.	Class III	25198	55338	Type I = 11,073
2.	Class IV	2849	6407	Type II = 8,043
				Type III = 1,818
				Type IV & V = 704
Total		28,047	61,745	21,638

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 :

2015-2016				2015-2016			
		Group 'C'	Group 'D'			Group 'C'	Group 'D'
1. Signal & Telecommunication Department				(c) Construction			
(i) Signal	6	..	..	(i) Railway Electrification	217	43	..
(ii) Tele-communication	5	..	..	(ii) Organization	..	..	..
(iii) Microwave	64	..	..	4. Commercial			
2. Civil Engineering Department				(i) Commercial Clerks	2,922	..	..
(i) Civil Engineering Permanent Way	535	..	..	(ii) Ticket Checking Staff	3,652	..	..
(ii) Civil Engineering Works	347	..	..	(iii) Catering Staff (Bungalow lascar)	261	..	..
(iii) Civil Engineering Bridges	39	..	..	5. Operating			
(iv) Civil Engineering Workshop	38	7	7	(i) Train Clerks	354	..	..
3. Electrical Department				(ii) Guards	1,559	..	..
(a) Workshop & production Units				(iii) Traffic Signallers	..	..	..
(i) EMUs	1,547	132	132	(iv) Shunting Staff	5,611	..	..
(ii) Others	1,389	406	406	(v) Yard Staff	..	..	..
(iii) Electric Locos	..	..	..	(vi) Others	..	..	..
(b) Open Line				6. Mechanical			
(i) Electrical Loco Shed	1,459	322	322	Workshops & Production Shops	12	..	..
(ii) EMU Shed	21	23	23	(i) Steam Locos	..	..	..
(iii) Rolling Stock Operation	2,822	..	..	(ii) Diesel Locos	..	..	..
(iv) Traction Distribution	1,179	1000	1000	(iii) Carriage & Wagon	11	..	..
(v) General Services	2,671	2005	2005	(iv) AC Locos	..	..	..
				(v) Other activities	138	39	39
				Ministerial	..	..	..
				CRC/PRC/Chief loco Ins	11	..	..
				SSE/DSL/HQ/Mech. & Etc.	7	..	..

XIII. यात्रियों को सुख-सुविधाएं/AMENITIES FOR PASSENGERS

1. Permanent Augmentation during the Financial year 2015-16.

Month	Train No. & Description	Notifi- cation dated	With effect from	WGAC	LWACW	WGACCW	LWACCN	WGACCN	WGSCCN	LWSCZAC	WGSCZAC	WGSCZ	GS	SLR	TOTAL	No. of Rakes	Net cns added	No. of Trains
April	16733/16734	..	24.04.15	..	..	..	..	..	1	..	..	..	..	..	1	1	1	2
	16854/16853, 16859/16860	17.04.15	24.04.15	..	..	..	..	..	2	..	..	..	..	..	2	4	8	4
	16854/16853, 16859/16860	..	17.08.15	..	..	..	..	..	1	..	..	..	..	..	1	4	4	4
	12602/12601, 16604/16603	18.05.15	18.05.15	..	..	..	..	1	..	..	..	..	..	..	1	8	8	8
	16629/16630, 22637/22638	18.05.15	18.05.15	..	..	..	..	1	..	..	..	..	..	..	1	8	8	8
	16338/16337, 12683/12684	18.05.15	18.05.15	..	..	1	..	..	..	..	..	..	..	..	2	1	2	2
	12639/12640	18.05.15	20.05.15	..	..	..	..	..	..	..	..	1	..	..	1	1	1	2
	NCJ Link-1	19.05.15	23.05.15	..	..	..	..	..	..	..	..	..	1	..	1	4	4	14
	ALLP Link-1	19.05.15	23.05.15	..	..	..	..	..	..	..	..	..	2	..	2	4	8	14
May	TEN Link-1	19.05.15	20.05.15	..	..	..	..	..	..	..	..	..	2	..	2	4	8	10
	12647/12648, 12682/12681	19.05.15	29.05.15	..	..	..	..	..	1	..	..	..	..	..	1	1	1	4
	16337/16338, 12683/12684	19.05.15	29.05.15	..	..	..	..	..	1	..	..	..	..	..	1	2	2	4
	12617/12618	19.05.15	29.05.15	..	..	..	..	..	1	..	..	..	..	..	1	6	6	2
	16347/16348, 12620/12619	19.05.15	29.05.15	..	..	..	..	..	1	..	..	..	..	..	1	4	4	4
	12007/12008	22.06.15	29.06.15	..	..	..	..	..	..	1	..	..	..	..	1	1	1	2
June	12287/12288	22.06.15	03.07.15	..	..	..	..	2	2	..	..	..	..	1	5	1	5	2
	22631/22632	22.06.15	02.07.15	..	..	..	1	..	..	..	..	..	..	..	11	1	1	2
	12641/12642	23.06.15	01.07.15	..	..	..	..	..	..	..	..	..	1	..	1	2	2	2
	12645/12646	23.06.15	01.07.15	..	..	..	..	..	..	..	..	..	1	..	1	1	1	2
	16713/16714, 16723/16724	23.06.15	01.07.15	..	..	..	..	..	..	..	..	..	1	..	1	4	4	4
	16359/16360	22.06.15	04.07.15	..	..	..	..	..	1	..	..	..	..	..	1	1	1	2
July	Nil	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
Aug.	Nil	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sep.	Nil	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oct.	Nil	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nov.	Nil	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Dec.	16115/16116	27.01.16	30.01.16	..	..	..	..	..	..	..	..	..	1	..	1	1	1	2
Jan.	12007/12008	27.01.16	04.02.16	..	..	..	..	..	..	1	..	..	..	..	1	1	1	2
Feb.	16359/16360	27.01.16	06.02.16	..	..	..	..	1	..	..	..	..	..	..	1	1	1	2
	12698/12697	27.01.16	06.02.16	..	..	..	..	1	..	..	..	..	..	..	..	..	..	2
	16334/16333	27.01.16	08.02.16	..	..	..	..	1	..	..	..	..	..	..	1	1	1	2
	12651/12652	27.01.16	07.02.16	..	..	..	..	1	..	..	..	..	..	..	1	2	2	2
	12664/12663	27.01.16	09.02.16	1	..	..	..	..	..	..	..	..	..	..	1	2	2	2
	16336/16335	27.01.16	09.02.16	..	..	..	..	1	..	..	..	..	..	..	1	1	1	2
	22601/22602, 16003/16004	27.01.16	10.02.16	..	..	..	..	1	..	..	..	..	..	..	1	1	1	4
	22631/22632	27.01.16	11.02.16	..	1	..	..	..	..	..	..	..	..	..	1	1	1	2
	22641/22642	27.01.16	11.02.16	..	..	..	..	1	..	..	..	..	..	..	1	2	2	2
	16332/16331	27.01.16	13.02.16	..	..	..	..	1	..	..	..	..	..	..	1	1	1	2
	12647/12648	27.01.16	14.02.16	..	..	..	..	1	..	..	..	..	..	..	1	1	1	2
	12681/12682	27.01.16	05.02.16	..	..	..	..	1	..	..	..	..	..	..	..	..	..	2
	22620/22619	27.01.16	06.03.16	..	..	..	..	1	..	..	..	..	..	..	1	1	1	2
March	Total	..	..	1	1	1	1	17	11	2	..	1	9	1	48	81	90	136

2. Drinking Water Arrangements

Sl. No.	Divisions	Name of work	Estimate cost (Rs. in lakhs)
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(I) Works Completed**(i) Works costing more than Rs. 5 lakhs each :—**

1. MAS	..	CGL – Provision of drinking water facility.	23.00
2. SA	..	—	
3. PGT	..	—	
4. TVC	..	TVC Coaching Depot—Provision of carriage watering arrangements between Road No. 12, 13, 14 & 15 for platform turn round attention.	68.92
		TCR, AWY & GUV—Supply of potable drinking water.	36.54
		ERS Complex—Supply of drinking water.	10.75
		CAPE—Augmentation of water supply scheme by provision of bore well, OH tank and water hydrant.	29.93
5. TPJ	..	Nil	
6. MDU	..	DG - Provision of Purified Drinking water (RO) at DG station.	9.36
		SNKL Station—Proposed construction of GLR 20,000 litres capacity and provision of 200 mm. dia borewell with pumping arrangements.	7.00
7. CE/CN/ERS	..	Nil	
8. CE/CN/MS	..	CGL—VM doubling works	
9. MTP	..	Nil	

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

1. MAS	..	Nil	
2. SA	..	Nil	
3. PGT	..	Nil	
4. TVC	..	Nil	
5. TPJ	..	Nil	
6. MDU	..	PLNI—Provision of purified drinking water (RO) at PLNI station.	3.02
7. CE/CN/ERS	..	Nil	
8. CE/CN/MS	..	Nil	
9. MTP	..	Nil	

(II) Works in Progress**(i) Works costing more than ₹ 5 lakhs each :—**

1. MAS	..	ADEN/NW -Sub-Division Drinking water TVT - MAS - Trucing out water.	17.500
		DEN/Bldg. Jurisdiction (Agt. No. 279/B/ MAS of 02.11.15) - Trucking out water.	51.095
		ADEN/II/Bldg./MAS Jurisdiction (Agt. No. 321/B/MAS of 21.1215) - Drinking water supply.	30.660
		ADEN/II/Bldg./MAS Jurisdiction (Agt. No. 240.240 320/B/MAS of 21.1215) - Drinking water supply.	293.280
		ADEN/Metro/MAS Jurisdiction Drinking water.	293.280
		SPE - Drinking water supply.	101.519
		ENR - Drinking water supply.	9.563
		ADEN/TBM/Sub Division Drinking water supply.	7.021
2. SA	..	Nil	
2. PGT	..	Nil	
2. TVC	..	Nil	

5. TPJ	..	SRPM - Renewal of corroded main steel pipe line 375mm. dia. with 400 mm. dia. Ductile iron pipe for residual length of 2100 meters long.	225.38
		SRPM - Replacement of cost iron pipe line (2001 m.) & Ponmalai - Replacement of steel tank by reinforced concrete cement tank (id. 417/03-04, CE/OL).	249.43
		SRPM - Improvement to sedimentation tank at SRM.	5.00
6. MDU	..	Rameswaram - Additional drinking water supply in tank mounted lorry to statin and colony.	9.16
		Karaikkudi - Additional drinking water supply for carriage watering.	18.71

7. CE/CN/ERS	..	Nil
8. CE/CN/MS	..	Nil
9. MTP	..	Nil

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

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

In terms of Commercial Circular No. 51 of 2014, three A1 category stations - Chennai Central, Chennai Egmore and Thiruvananthapuram Central Stations have been identified for integrated cleanliness contract.

Further, in accordance with the instructions contained in the Commercial Circular No. 76 of 2012 relating to Indian Railway (Penalties for activities affecting cleanliness at railway premises) Rules, 2012, (Gazette Notification GSR 846 (E dated 26.11.2012, fines are being collected from those indulging in activities affecting the cleanliness and hygiene of railway premises. An amount of Rs. 6,18,900/- has been realized from 3043 cases during Apr' 15 to Mar' 16.

Under "Swachch Bharat Missio". Action Plan has been drawn focusing on vital aspects such as Tree Plantation, removal of encroachments, maintaining clean toilets at stations, painting of road kerbs, clearing posters, repairing street lights, improving drainage, improving signage, whitewashing of buildings, etc. In this regard, Special Drives are conducted every month.

During 2015 - 16, Special drives have been conducted at 1046 stations. During the drive, public Awareness campaigns have also been organised with the assistance of NGOs, Scouts & Guides Civic bodied, Students from Schools/ Colleges to create awareness among the travelling public. Display through CCTV is also being done regarding Panel Provisions under Indian Railways (Panalties for activities affeting cleanliness at Railway Permisses) Rules, 2012. The Cleaning activities are also monitored through ISS/CCTVs at important Stations.

2. Drinking Water Arrangements**Drinking Water Arrangements Taps/Hand Pumps/Water Huts Provided:**

Division	Taps available during 2014 - 15	Taps available during 2015 - 16	Taps provided during 2015 - 16
MAS	2,399	2,738	339
TPJ	1,965	1,895	0
MDU	2,026	2,244	218
SA	1,039	1,107	68
PGT	1,264	1,422	158
TVC	1,473	1,748	275
Total	10,166	11,154	1,058

Water Coolers Provided

Division	Coolers available during 2014 - 15	Coolers available during 2015 - 16	Coolers provided during 2015 - 16
MAS	96	121	25
TPJ	35	30	0
MDU	51	51	0
SA	24	33	9
PGT	46	50	4
TVC	50	58	8
Total	302	343	46

3. Passenger Amenity Works.

During the year 2015-16, Eighteen (18) passenger amenity works costing Rs. 33.40 crores were completed.

For the year 2015-16, totally 146 passenger amenity works costing Rs. 456.94 crores had been in various stages of progress.

For the year 2016-17, 21 new works costing Rs.33.47 crores were processed and included in LAW - 2016 - 17.

During 2015-16, the Budget grant was Rs. 123.80 crores out of which Rs.95.23 crores was spent which accounted 77% of BG.

In the current year 2016-17, the Budget Grant allotted for PA work is Rs. 63.37 Crores.

4. Catering :

The Catering Policy 2010, was circulated vide Commercial Circular No. : 35 dated 21-07-2010. All Catering units, both Mobile and Static except Food Plazas, Food Courts & Fast Food Units were taken over from IRCTC for management by Railways. As per Railway Board Letter No. : 2010/TG-III/464/1/NBSP-III dated 28-03-2011, Book stalls at A, B, C category stations have also been taken over from IRCTC.

5. Departmental Catering at Station :**Jan Ahar/Jam Ahar Outlets**

1. Chennai Central 2. Kanniyakumari 3. Erode

6. Departmental Catering on Trains :

Managed by Railways : Train No. 12081/12082 Jan Shatabdi Exp.
TVC - CAN - TVC.

Managed by IRCTC : Train No. 12669/12670 Durgam Exp.
MAS - NZM - MAS.

7. Contract Catering :

Catering Units run by Contractors are given below :—

Sl. No.	Name of the Unit.	MAS	TPJ	MDU	PGT	TVC	SA	Total
1	Refreshment Rooms at A1, & A Category stations.	0	3	4	5	9	4	25
2	Cell kitchens	3	1	1	..	1	1	7
3	AVM	31	2	0	13	2	26	74
Small Catering Units at A, B, C Category Stations								
4	Refreshment Rooms at B & C Category station.	0	2	0	2	1	1	6
5	Milk stalls	19	6	5	21	16	7	74
6	Other Small Catering Units at A1, A, B, C (Category).	46	37	20	88	69	33	293
Small Catering Units at D, E, F Category Stations								
7	Refreshment Rooms at D, E, F Category stations.	0	1	0	0	4	1	6
8	Milk stalls	0	..	5	10	5	0	20
9	Other Catering Units at D, E, F, (Category).	0	24	21	14	27	10	96
10	HPMC	11	0	0	0	19	0	30
11	Book Stall	20	3	5	10	12	3	53
12	Higg bothoms	10	3	1	5	5	4	28
13	Miscellaneous Stall	0	11	11	18	10	1	51
14	Handloom stalls	..	..	..	..	2	3	5
Total		141	93	73	186	182	94	769

Licensee operated Mobile-Catering Units under the Control of Southern Railways.

1. 12007/12008 MAS-MYS-MAS Shatabdi Exp.	6 days in a week
2. 12076/12075 TVC-CLT-TVC Jan Shatabdi Exp.	Daily
3. 12077/12078 MAS-BZA-MAS Jan Shatabdi Exp.	Except Tuesday
4. 12083/12084 CBE-MV-CBE Jan Shatabdi Exp.	Except Tuesday
5. 12617/12618 ERS-NZM Mangala Exp.	Daily
6. 12643/12644 TVC-NZM-TVC	Weekly
7. 12651/12652 MDU-NZM Sambark Kranti Exp.	Bi-weekly
8. 12655/12656 MAS-ADI Navajeevan Exp.	Daily
9. 12663/12664 TPJ-HWH-TPJ	Bi-weekly
10. 12665/12666 CAPE-HWH-CAPE	Weekly

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11. 12669/12670 MAS-CPR. Ganga Kaveri Exp.	Weekly
12. 12675/12676 MAS-CBE Kovai Exp.	Daily
13. 12677/12678 SBC-ERS Intercity Exp.	Daily
14. 12679-12680 MAS-CBE Intercity Exp.	Daily
15. 12687-12688/22687/22688 MDU-DDN/CDG-MDU.	Weekly
16. 16309/16310 ERES-PNBE-ERS	Weekly
17. 16311/16312 KCVL-BKN-KCVL	Daily
18. 16323-16324 TVC-SHM-TVC	Bi-weekly
19. 16326/16325 TVC-INDB-TVC	Weekly
20. 16328/16327 TVC-KRBA-TVC	Bi-weekly
21. 16332-16331 TVC-CSTM-TVC	Weekly
22. 16334/16333 TVC-VRL-TVC	Weekly
23. 16336/16335 NCJ-GIM-NCJ	Weekly
24. 16340/16339 NCJ-CSTM-NCJ	4 days in a week
25. 16346/16345 TVC-LTT-Nethravathi Ex.	Daily
26. 16359-16360 ERS-PNBE-ERS	Weekly
27. 16649/16650 MAQ-NCJ-Parasuram Ex.	Daily
28. 16687/16688 MAQ-JAT Navyug Exp.	Daily
29. 16733/16734 RMM-OKHA-RMM	Weekly
30. 22625/22626 MAS-SBC AC Double Decker Exp.	Daily
31. 12641/12642 CAPE-NZM Thirukural Exp.	Bi-weekly
32. 16338-16337 ERS-OHKA-ERS	Bi-weekly
33. 16317/16318 CAPE-SVDK Himsagar Exp.	Weekly

Licensee operated Mobile-catering (Temporary) units under the control of IRCTC.

1. 12635/12636 MS-MDU Vaigai Exp.	Daily
2. 16302/16301 TVC-SRR Venad Exp.	Daily
3. 12605/12606 TPJ-MAS-TPJ Pallavan Exp.	Daily
4. 16353/16354 NCJ-KCG Exp.	Weekly
5. 12615/12616 MAS-NDLS GT Exp.	Daily@
6. 12625/12626 TVC-NDLS Kerala Exp.	Daily@
7. 12621/12622 MAS-NDLS TN Exp.	Daily@
8. 16381/16382 CSTM-CAPE-CSTM	Daily@
9. 22631/22632 MAS-BKN AC Anuvrat Exp.	Weekly
10. 12243/12244 MAS-CBE Shatabde Exp.	6 days in a week
11. 22207/22208 MAS-TVC-MAS SuperAC Exp.	Bi-weekly
12*16351/16352 NCJ-CSTM Express	Bi-weekly@

* Pantry car is in locked condition due to court case between IRCTC and bidder of IRCTC.

@ Till 04.03.2015 under contract with Rlys. & w. e. f. 05.03.2015 handed over to IRCTC.

8. Affordable Food Packets

Exclusive Jan Ahars are functioning at MAS, ED & CAPE, which are managed departmentally by Railways.

9. Catering Supervisory Committee

Catering Monitoring Cell is functioning at Headquarters and Divisions. Catering Inspectors are continuously monitoring the service of Pantrycar. From March 2016, a scheme of "Own Your Pantrycar" has been introduced. Each CIR has been assigned with a pantry to improve the services and to redress the complaint received. Catering flying squad have been nominated in each Divisions to conduct inter Divisional surprise check.

This has the approval of CCM/PS & Catg.

10. Details of Amenities provided during the Year 2014-15

Sl. No.	Description of Amenity	Unit	Amenities MAS Divn.		Amenities SA Divn.		Amenities PGT Divn.		Amenities TVC Divn.		Amenities TPJ Divn.		Amenities MDU Divn.		Amenities CE/CN/ERS		Amenities CE/CN/MS		Total Expenditure (in thousands of) Rs.
			Provided during the year 2014-15	Expenditure in thousands of Rs.	Provided during the year 2014-15	Expenditure in thousands of Rs.	Provided during the year 2014-15	Expenditure in thousands of Rs.	Provided during the year 2014-15	Expenditure in thousands of Rs.	Provided during the year 2014-15	Expenditure in thousands of Rs.	Provided during the year 2014-15	Expenditure in thousands of Rs.	Provided during the year 2014-15	Expenditure in thousands of Rs.	Provided during the year 2014-15	Expenditure in thousands of Rs.	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	Waiting hall	Sq. m.	225	3500.00	42	4000.00	..	..	..	..	..	..	..	..	..	..	..	..	4042.00
2	Seating arrangements	Nos.	203	1522.50	160	360.00	..	..	..	..	..	..	..	25	200.00	..	..	..	910.00
3	Covering platforms	Sq. m.	4840	5281.61	22	200.00	2416.00	..	..	..	..	..	..	265.1	2700.00	..	..	..	5603.10
4	Drinking water arrangements																		
	1. Hand pumps	Nos.	..	..	..	..	..	..	1	28.37	..	..	..	3.00	200.00	..	..	..	232.37
	2. Taps	Nos.	13	204.00	2	200.00	29.00	..	..	..	..	..	..	..	..	..	..	..	232.00
5	Foot over bridge	Sq. m.	..	..	..	..	300	17586.00	..	..	..	..	..	..	..	..	..	..	17589.00
6	Waiting rooms	Sq. m.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	Suitable platform including raising	Nos.	..	16093.00	..	..	..	..	41271	2320.603	729.77	19374.00	3190	10000.00	..	..	..	..	76885.373
8	Booking windows-cum-reservation counter.	Nos.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	Sanitised latrines	Nos.	..	..	..	..	8	..	..	..	8	974.00	10	1400.00	..	..	..	..	2400.00
10	Waiting-cum-booking office	Nos.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	Retiring rooms	Nos.	..	..	40	840.00	..	..	..	..	..	..	1	300.00	..	..	..	..	301.00
12	Enquiry counter	Nos.	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	880.00
Total			5281	2479.11	266.00	5630.00	2621	17586.00	41272	2340.973	737.77	20348.00	3494.10	14800.00	..	..	..	..	109073.843

11. Passenger Amenities -Works Completed & In progress During 2015-16

Sl. No.	PB/LAW	Item No.	Name of Work	Cost in 1000s of Rs.
PASSENGER AMENITY WORKS COMPLETED DURING 2015-16				
CHENNAI DIVISION				
1.	LAW	..	MAS - GDR Section - Provision of IRS type platform shelter at AIPP VOC Nagar.	1,59,614
2.	LAW	..	MAS - AJJ Section balance work of extension of PF's to accommodate for 12 EMU rack in UP & DN slow line PF at ABU, PVM, TMVL, ANNR, PAB, PTMS & HC.	11,942
3.	LAW	..	ABU - Repairs to F surface & circulating area.	89,442
4.	LAW	..	TRL - AJJ Section - balance work of extension of PF's to accommodate for 12 EMU rack in UP & DN slow line PF at EGTR, KBT, SPAM, MAF, TO, MSU & PLMG.	1,23,887
5.	LAW	..	ADEN/NWL/MAS Section repairs to existing PF surface at KOTR & PVM.	41,514
6.	LWA	..	Passenger Amenities completed in SSE/Works/SPE jurisdiction.	1,347
7.	LWA	..	Sr. DEN/West/MAS jurisdiction - provision of mini PF shelters including benches and paving.	7,164
8.	LWA	..	Chennai Division - Provision of benches in Sr. DEN/West/MAS jurisdiction.	21,215
SALAM DIVISION—(Works Costing more than Rs. 5 Lakhs.)				
1.	LWA	..	SA - Division : FOB 2 Nos.	16,834
2.	LWA	..	Bommidi - Extension of PF No. 1 for 295 m. and PF No. 2 & 3 (island) for 150 m. to accommodate 24 coach trains for length of 650 m. (Id. 1507/009 - 10)CE/OL.	39,148
3.	PB	..	Buddireddipatti - Proposed extension of PF 1 & 2 for 24 coach length and provision FOB to connect PF 1 & 2 (Id. 1470/10 - 11).	28,025
4.	PB	..	Tiruppur - Proposed construction of second class waiting hall in PF No. 2 construction of staff Qrs.10 (Type - II) 9id. 1473/10 - 11).	2,280
PALAKKAD DIVISION—(Works Costing more than Rs. 5 Lakhs.)				
1.	..	..	Palakkad Jn. - Provision of platform shelter for 3 bays on PF - 3/4 towards CBE end.	3,777
2.	..	..	Angadipuram - Proposed construction, widening and extension of PF No. 2 for a length of 270 m. (12 Coach).	9,800
3.	..	..	Upgradation of passenger amenities at Mangalore Jn. (Raising of PF No. 1 as high level for a length of 400 m, provision of new waiting room, ladies toilet and construction of compound wall).	8,427
4.	..	..	Nileswar - Provision of Foot Over Bridge (22 m. long X 3 m. wide) (Id. 1691/08-09), CE/OL.	7,530
5.	..	..	Palghat Division - Upgradation of passenger amenities in SRR and NIL area (except AAM) (Id. 1509 - 10)	9,900
6.	..	..	Provision of lifts - 4 Nos. MAQ - 2 Nos. (PF. No. 1 & 2/3) & PGT 2 Nos. (PF No. 1/2 & 3/4) Civ. - 32 Etc. - 88.	
7.	..	..	Vadakara - Extension and raising of PF No. 2 to hold 24 coaches and construction of PF. No. 3 to hold 24 coaches.	16,416
8.	..	..	Kasargod - Provision of PF shelter 3 bays, 7.14 m. wide (IRS Type) on Down line PF at SRR end and improvements to PF surface with vacuum dewatering concrete on PF No. 1 and construction of booking office with 4 counters for UTS & 2 counters for PRS.	16,664
9.	..	..	Mahe & Quilandi - Provision of PF shelter 4 bays, 7.14 m. wide (IRS Type) on Down line PF at MAQ and improvements to PF surface with vacuum dewatering concrete on PF No. 2 QLD and provision PF shelter 4 bays, 7.14 m. wide (IRS Type) in Up & Down lines PF at SRR end at MHE.	16,150
10.	..	..	PGT- Division Provision of mini shelter at various stations in DEN/West/PGT portion (MAQ - 10, MAJN - 14, ULL - 4, MJS - 4, UAA - 4, KMQ - 4, KGQ - 10, KOK - 4, BFR - 4, KZE - 20, NLE - 4, CHV - 12, TKQ - 4, PAY - 14, ELM - 4, PAZ - 18, KPQ - 15, VAPM - 4, TLY - 12, MHE - 11, BDJ - 10 and PYOL - 8).	20,438
TVC - DIVISION—(Works Costing more than Rs. 5 Lakhs.)				
1.	..	..	Nagercoil Jn. - Repairs to approach roads of Nagercoil Railway Station.	3,926
2.	..	..	Ochira - Proposed extension and raising of platform No. 1.	6,517
3.	..	..	Mavelikkara - Raising of platform No. 1 to high level.	4,845
4.	..	..	IJK & PUK - Raising and surfacing of platform No. 1 to high level.	5,541
5.	..	..	AFK - Raising and surfacing of platform No. 2 & 3 to high level.	10,363
6.	..	..	MQU - Extension and raising of platform No. 1 & 2	10,043
7.	..	..	DAVM - Provision of passenger amenities	5,128
8.	..	..	KTYM - Proposed pilgrim complex for Sabarimala pilgrims	8,124
9.	..	..	KTYM - Improvements to circulating area at second entry	7,280
10.	..	..	MGK - Extension and raising of platform No. 1, 2 & 3	13,988
11.	..	..	ERS - ALLP Section - Improvements to approach road in AROR, VAY, MAKM, KAVR & SRTI Stations.	5,025

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Sl. No.	PB/LAW	Item No.	Name of Work	Cost in 1000s of Rs.
TRIVANDRUM DIVISION—(Works Costing morethen Rs. 5 Lakhs.) (Concl'd).				
12.	..	..	ERL - Extension of platform to hold longest stopping train.	3,456
13.	..	..	WKL - Raising and paving of platform No. 1.	14,092
14.	..	..	CKI - Raising of platform 1, 2 & 3 to high level.	16,895
15.	..	..	MAKM - Improvements to platform No. 1.	8,522
16.	..	..	ALLP - KYI Section - Improvements to approach road PNPR, TZHI, KVTA, HAD & CHPD.	3,477
17.	..	..	OLR - Extension and raising of platform No. 1.	6,654
TIRUCHCHIRAPPALLI DIVISION—(Works Costing morethen Rs. 5 Lakhs.)				
1.	PB	..	TVR Junction - Improvements to platform surface of PF No. 1 with vacuum dewatering concrete.	3,699
MADURAI DIVISION—(Works Costing morethen Rs. 5 Lakhs.)				
1.	..	..	MDU Dn. : TPJ - MNM : Provision of light weight shelters 4 bay each at 8 Stations.	11,445
2.	..	..	RMM : Provision of passenger shelters for 6 bays each on PF 2, 3, 4 & 5.	12,419
3.	..	..	MDU Jn. : Provision of approach road to the new parcel office and additional parking.	14,830
CE/CN/ERS—(Works Costing morethen Rs. 5 Lakhs.)				
	PB	..	Nil	
CE/CN/MS—(Works Costing morethen Rs. 5 Lakhs.)				
	..	..	Nil	
MTP—(Works Costing morethen Rs. 5 Lakhs.)				
	..	..	Nil	
PASSENGER AMENITY WORKS PROGRESS DURING 2015-16				
CHENNAI DIVISION				
1.	..	..	MAS - Modification of floor of station building to accommodate A/C Waiting hall	30,191
2.	..	..	Repairs to PF shelter, pipe line between NBK - GI.	52,365
3.	..	..	Repairs to coping slab - NBK.	47,838
4.	..	..	Repairs to PF TMVL & ANNRR	53,330
5.	..	..	Repairs to PFKOTR & PVM	39,692
6.	..	..	Repairs to PF MAF & SPAM	41,514
7.	..	..	Repairs to PF VEU	31,613
8.	..	..	Repairs to PF AVD	37,880
9.	..	..	Repairs to circulating area and road -CGL Section	40,757
10.	..	..	Approach road - AJJ - RU Section	83,306
11.	..	..	Repairs to Station approach road - WST	1,19,450
12.	..	..	TBM - Second entry	24,763
13.	..	..	MBM - Double Discharge PF	1,91,791
14.	..	..	NWL - Section - Provision of Minimum Essential Passenger Amenities including Amenities for disabled person.	92,844
SALEM DIVISION				
(Works Costing Lessthen Rs. 5 Lakhs.)				
Nil				
(Works Costing more then Rs. 5 Lakhs.)				
1.	..	..	ADEN/KRR & ATU Subdivision - (i) Proposed roof covering for existing FOB at KRR & KMD stations and (ii) Proposed FOB with roof covering at CHSM Station.	8,435
2.	..	..	SA Divn. : Camtech Design Watering facilities at ED Platforms.	12,926
3.	..	..	SA Divn. : Extension of Platform to accommodate 24 coaches in Platform No. 1 at MTP.	9,944
4.	..	..	SA Divn. : CBE - Widening of Platform No. 1A & Provision of Ramp at Platform No. 1A	4,959
5.	..	..	SA Divn. : Developing second entry at SA duly widening of PF. 5 & extension of FOB & etc.	19,800
6.	..	..	Watering facilities at Coimbatore & Mettupalayam.	10,976
7.	..	..	SA Divn. : Provision of FOB and Extension of Platform at Samalpatti station.	19,977
8.	..	..	SA Divn. : Provision of concrete pavement at unloading platforms at SAMT.	19,932
9.	..	..	TUP : Improvements to unloading area and circulating of goodsheds.	8,049
10.	..	..	TUP : Extension of Platform No. 1 at CBE end for 45 mtrs.	5,016
11.	..	..	High presser jet for leaning of CC apron at CB, ED & SA.	5,000
12.	..	..	Improvements to circulating area at SA Jn.	4,400
13.	..	..	Improvements to unloading facilities at IGU.	9,500
14.	..	..	Improvements to goods line at TUP	9,500

Sl. No.	PB/LAW	Item No.	Name of Work	Cost in 1000s of Rs.
Palakkad Division				
1.	..	..	Palakkad Division - Foot Over Briges (5 stations) (VAPM, KN, TUA, LDY & ETMD)	36,394
2.	..	..	Palakkad and Trivandrum Divisions - Raising of rail and medium level platforms to high level (B- category -3 (TIR) and D - category - 24 stations - CHV, KPQ, KOK, NLE, PGTN, PGT, PAZ, POY & QLD (Cost shown for PGT Division only).	50,120
3.	..	..	Palakkad and Trivandrum Divisions - Foot Over Briges (10 Nos.) (D - category - stations) - AAM-KPQ NIL, PGTN & PGT (Cost shown for PGT Division only).	24,116
4.	..	..	Vadakara - Provision of PF Shelter 4 bays, 7.14 m. wide 9IRS type) on down line PF at SRR end and 4 bays, 12.30 m. wide on up line at SSR end.	7,765
5.	..	..	Tirur & Uppala - Provision of second FOB at TIR and provision of FOB at UAA	15,353
6.	..	..	Shoranur - Provision of PF Shelter 4 bays, 11.50 m. wide (IR- type) on PF No. 1 and PF No. 6, 7 (2 bay each at PGT and MAQ ends) and 4 bay 8.00 m wide on PF No. 1 and 3 bays 12.00 m. wide on PF No. 1 and passenger area dismantling eisiting ridge type roofing.	19,411
7.	..	..	Nilambur - Provision of new booking office and circulating area at second entry and high level PF with 18 coaches length including trolley path.	24,891
8.	..	..	Palakkad Division - Provision/Improvements to Passenger Amenities in Kannur, Vadakara, Thalassery and Tirur (Face lifting of station bulding and improvements to circulating area).	90,370
9.	..	..	Kozhikkode - Second Foot Over Bridge with ramp facility with 5.00 m. and 70 m. span at SRR end connecting platform No. 1, 2, 3 & 4.	56,700
10.	..	..	PGT Division - Karakkad, Bakel Fort, Vallikunnu, Trikarapur - Provision of Foot Over Bridges.	28,749
11.	..	..	Mangalore Central - Reconstruction of PRs Centre	15,074
12.	..	..	PGT Division - Extension of Rail level platforms at 6 Stations - Ettimadi, Kanjikode, Pallipuram, Tirunnavaya, Kallayi and West Hill.	18,185
13.	..	..	PGT Division - Extension of Rail level platforms at 6 Stations - Lakkiti, Elathur, Jagannath Tgmple Gate, Tikkti, Kannur South and Pappinisseri.	19,246
14.	..	..	Provisions of Escalators - 5 Nos. (CAN - 2 Nos. (PF. No. 1), MAQ - 2 Nos. Cir - Area & PF No. 12/3 & PGT 1 No. PF No. 1(A) Cir. - 1.22, Ele. - 3.22.	44,400
15.	..	..	Kozhikkode - (CLT) - Provision of conventional type CC apron on line of PF - 1 for a length of 500 m.	19,977
16.	..	..	Amenities to at Adarsh Stations - Provision of high level platforms at KPQ & KOK	20,207
17.	..	..	Mangalore - Developement of second entry	67,458
18.	..	..	PGT Division - Provision of lifts 2 numers at CAN & 2 numbers at BDJ.	15,160
19.	..	..	CAN - Provision of subway connecting PF 1 and 2/3 at Kannur station	19,698
20.	..	..	Southern Railway - Provision for elimination deficiencies in shortfall in water taps at various stations over MAS, SA & PGT Divisions.	15,000
21.	..	..	Southern Railway - Provision for elimination deficiencies in shortfall in toilets at various stations in all Divisions.	10,500
22.	..	..	Provision of new station building and other passenger amenities at AAM	14,412
23.	..	..	Mangalore Central - Construction of booking office with 4 counters - Developments circulating area and vehicle parking at second entry.	7,480
24.	..	..	Shoranur - Improvements to water supply arrangements to station and platform Shoranur Jn. including repllacing distriution pips in SRr yard.	13,606
25.	..	..	PGT - Division - (a) Provision of LCD TV at a waiting rooms of A & B Class stations - MAQ, KGQ, CAN, BDJ, TIR, SRR, OTP, PGT, TLY & CLT. (b) Counter communication system at information Centres and enquiry counters - MAQ, KGQ, KZE, CAN, BDJ, TIR, SRR, PGT, MAJN, TLY & CLT. (c) Provision of computerized announcement system at 3 stations - VAPM, NIL, VNB & AAM (d) Extension of PS system to second - PAY, QLD, TA, KTU & PGT.	4,072
26.	..	..	PGT - Division - Improvements to lighting arrangements by providing "High Mast Tower" in circulating area at CLT, BDJ, TLY, CAN and MAQ 2nd entry.	2,068
27.	..	..	PGT - Division - Proision of T5 water tight light fitings at all 'D' category stations (15- Stations)	2,391
28.	..	..	Kozhikkode - Supply Erection. Testing and commissioning of 160 KVA (128 KW) DG set for emergency power supply.	2,820
29.	..	..	Palakkad Jn. - Provision of separate OH water tank with 2.25 laksh liter capacity and 20 m. height for coach watering arrangements.	9,518
30.	..	..	PGT - Division - Proision of International standard signage Boards at category 'A' & 'B' Stations.	742

Sl. No.	PB/LAW	Item No.	Name of Work	Cost in 1000s of Rs.
Palakkad Division—(Concl.)				
31.	..	..	Shoranur Jn. - Provision of separate OH water tank with 2.25 laksh liter capacity and 20 m. height for coach watering arrangements.	8,343
32.	..	..	Palakkad Jn. - Reconstruction of CC Apron on line of PF No 2 for a length of 56 m.	9,882
33.	..	..	Vaniyambalam (VNB) - Provision of rail level platform with a capacity to hold 12 coaches on Road No. 2.	2,500
34.	..	..	Provision of wheel chairs - 33 Nos. at various stations in the Division. (One each at all A. B. D. & Four E. Category stations viz. MDKI, KRKD, TKQ & BFR).	271
35.	..	..	Provision of Uniform Passenger Information Boards at 'B' Category stations viz. MAJN, KGQ, KZE, PAY, BDJ, TIR, KTU & OTP).	196
36.	..	..	Extension of rail level platforms with pucca foundations at Chemancheri and Dharmadam stations.	6,479
37.	..	..	Reconstruction of station building at Trikapur (TKQ) station.	4,191
38.	..	..	Reconstruction of station building at Elimala (ELM) station.	4,161
39.	..	..	Provisions of Touch Screens (39 Nos.) at 22 stations.	9,665
40.	..	..	Amenities at Adarsh stations - QLD - Reconstruction of station building with provision of separate Booking Office.	11,625
41.	..	..	Provision of Waiting Room at Charvattur (CHV) station	1,699
42.	..	..	Elimala - making the platform level uniform.	5,283
43.	..	..	PGT Division - Provision for Main Shelters 3 each at 10 stations in Sr. DEN/East/PGT Jurisdiction.	7,499
44.	..	..	Trikkapur - Making the platform level uniform at platform No. 1.	3,956
45.	..	..	PGT Division - Provision for Main Shelters 3 each at 14 stations in Sr. DEN/West/PGT Jurisdiction.	9,986
46.	..	..	Palakkad Division - Provision of water coolers as passenger amenity on various Passenger Platforms so as to comply with MEA.	2,492
TIRUVANANTHAPURAM DIVISION				
1.	..	..	Alwaye - Provision of a new Upper Class Waiting room and shifting of PRS Centre (id. 1947-08). CE/OL	4,950
2.	..	..	Angamali for Kaladi - Raising of Platform No. 1 to high level and paving of prime areas of platform No. 1 with Kota stone type.	4,900
3.	..	..	Chengannur - Re-roofing of station building and provision of VRR (id. 999/03-04)CE/OL.	1,900
4.	..	..	Chengannur - Provision of VIP lounge. Upper class waiting room SMR's room and raising of platform No. 2 & 3.	4,950
5.	..	..	Ernakulam Jn. - Paving of platform No. 2/3 with kota stone or similar flooring (id. 1695/08-09), CE/OL	4,900
6.	..	..	Ernakulam Jn. - Extension of foot over bridge to eastern side for 2nd entry (Karshaka Road) (id. 248/PB 98/99, CE/OL.	6,350
7.	..	..	Ernakulam Jn. - Provision of ladies waiting room provision of 80 m. shelter on PF No. 4/5 (id. 1306/06-07)CE/OL	4,950
8.	..	..	Ernakulam Town & Kayankulam - model stations - Provision of additional waiting rooms (id. 1950/07/08) CE/OL.	4,900
9.	..	..	Ernakulam Town & Alwaye - Raising of PF No. 2 (id. 1305/06-07)CE/OL.	4,950
10.	..	..	Kayankulam - Upgradation of amenities as model station (id. 1951/07-08). CE/OL.	20,500
11.	..	..	Mayyabad - provision of Foot Over Bridge (id. 1696/08-09). CE/OL.	4,500
12.	..	..	Nagercoil Jn. - Provision of shelter for a length of 32 m. AE 4 Nos. AE one each end of PF No. 1 & 2 for AC Coaches (id.	4,650
13.	..	..	Nagercoil Jn. - Provision of carriage watering arrangement between road No. 8 & 9 for rake maintenance in pit line No. 1 (Road No. 9).	2,650
14.	..	..	Nagercoil Jn. - Construction of new booking office and raising of platform No.1 (id. 1307/06-07), CE/OL	4,950
15.	..	..	Nanguneri & Aralvaymoli - Provision of waiting rooms (id. 1698/08-09), CE/OL.	4,900
16.	..	..	Tiruvananthapuram Coaching Depot - Provision of carriage watering arrangement between Road No. 12 & 13.	3,650
17.	..	..	Tiruvananthapuram Coaching Depot - Provision of carriage watering arrangement between Road No. 14 & 15 for platform turn round attention.	2,650
18.	..	..	Trichur & Nagercoil - Model stations - provision of additional waiting rooms (id. 1957/07-08), CE/OL	4,900
19.	..	..	Tiruvananthapuram Division - Construction of second booking office near parcel office for shifting the existing booking office.	4,900

Sl. No.	PB/LAW	Item No.	Name of Work	Cost in 1000s of Rs.
TIRUVANANTHAPURAM DIVISION—(Concd.)				
20.	..	..	Tiruvananthapuram Division - Provision of new waiting room at Quilon end and conversion of existing upper class waiting room into AC.	4,950
21.	..	..	Tiruvananthapuram Division - Extension of PF No. 1 AMVA, VRLR, SUCH, THX, NPK, KZTW, SGLM & MP to accommodate the longest stopping trains.	4,950
22.	..	..	Tiruvananthapuram Division - Extension of PF No. 1 at VE, 1 & 2 at KXP, 1 & 2 at EVA, 1 & 2 at PGZ 1 & 2 at YIRP. (id. 1962/07-08), CE/OL.	4,950
23.	..	..	Extension of platforms to hold 24 bogies (3 stations) id. 1963/07-08), CE/OL.	20,000
24.	..	..	Provision of 32 m. each of platform shelter for AC coaches at 6 locations viz., KYJ, TRVL, CGY,TRTR.	4,900
25.	..	..	Provision of recommended level of platform shelter at PASA, NYY, MQO, CHPD (id : 1966/7-08, CE/OL.	4,950
26.	..	..	Provision of platform shelter for a length of 32 m. each for AC coaches at AFR, CRI, UK & GUV (id :	4,600
27.	..	..	Provision of platform shelter for a length of 32 m. each at VLY, AAY, ERL & NEW (id : 1970/07-08, CE/OL.	4,200
28.	..	..	Ernakulam Jn. - Raising of PF 4/5 from medium to high level.	7,750
29.	..	..	Provision of shelter in PF 2 & 3, at PVU and PF 1 and PF 2 at CRY.	7,400
30.	..	..	Munroturuttu - Proposed rebuilding station building	4,950
31.	..	..	Chengannur - Pilgrim complex. Developing low lying area near RPF station	9,500
32.	..	..	Guruvayur - Water supply arrangement, replacement of defective pipe line	5,600
33.	..	..	Chalakudi - Water supply arrangement - provision of OHT	6,850
34.	..	..	Ernakulam Town - Additional shelter for a length of 64 m. over PF stalls.	4,000
35.	..	..	Kulitturai - Provision of shelter 64 m. each in PF 1 and PF 2.	7,200
36.	..	..	Aluva - Provision of shelter 64 m. each in F1 and PF 2 & 3.	7,400
37.	..	..	Ernakulam Jn. - Provision of shelter 64 m. each in PF 1 and PF 2.	7,400
38.	..	..	Tripunittura - Provision of shelter 64 m. each in PF 1 and PF 2.	7,400
39.	..	..	Karunagapalli - Provision of shelter in PF 1, 2.	3,600
40.	..	..	Valliur & Kulitturai - Waiting rooms	8,300
41.	..	..	TVC Division - Provision of purified drinking water to stations through water treatment system.	2,000
42.	..	..	Provision of FOB at KCVL connecting PFs. main entry & second entry.	24,800
43.	..	..	Nagercoil Jn. - Alleppey, Trichur, Ernakulam Jn. & Ernakulam Town - Upgradation of model stations.	38,400
TIRUCHCHIRAPPALLI DIVISION				
1.	..	..	Proposed construction of temporary toilets (10 + 10 Nos.) at MV & TJ supply and erection of PVC watertanks and water supply through tankers view of Mahamaham 2016 festival.	662
2.	..	..	Proposed construction of temporary toilets (15 + 15 Nos.) and bothrooms (15 + 15 Nos.) at KMU supply and erection of PVC watertanks and water supply through tankers view of Mahamaham 2016 festival.	1,165
3.	..	..	Provisions of Temporary boards 12 Nos. each at way side stations between TJ and MV view of Mahamaham 2016 festival.	426
4.	..	..	KMU - Proposed temporary shed with 50 mm. dia. GI pipe poles and GI sheet roofing on hire basis for a period of 15 days at KMU station for Mahamaham 2016 festival.	3,166
5.	..	..	ADT Station - Extension of PF No. 1 and raising of PF No. 2 for a length of 145 metre in each platform.	4,264
6.	..	..	KTM Station - Extension of PF No. 1 and raising of PF No. 2 for a length of 145 metre in each platform.	5,535
7.	..	..	Thirunageswaram - Proposed raising of Rail level PF in to medium level PF.	3,736
8.	..	..	Malfium - Proposed raising of Rail level PF in to medium level PF.	3,882
9.	..	..	Painting of platform shelter at various stations in SSE/W/TJ section.	8,287
10.	..	..	NGT & NCR Stations : Supply of portable drinking water to station and staff quarters for the period from 06.10.2015 to 31.03.2016.	1,006

Sl. No.	PB/LAW	Item No.	Name of Work	Cost in 1000s of Rs.
TIRUCHCHIRAPPALLI DIVISION —(Concl.)				
11.	..	..	Tarasuram and Narasingampettai stations raising of PF with medium level platform.	7,696
12.	..	..	TPJ Division - Progress of PF shelter at KMU & NGT.	2,046
13.	..	..	VM - TPJ Mainline section - TDR Station Raising of enisting RL platform in to 3 platform	3,861
14.	..	..	TPJ - MV - BG Section - Provision of IRS Type platform shelters 2 x 16 m. met. Each at BAL, Tittee, PDV, SPL, ADT and KTM in SE/Works/TJ Section.	3,066
15.	..	..	TJ - KMU Improvements to PF and approach road at TT, PVL & AZP stations and improvement to raad surface and construction of retaining wall in LC No. 300A between stations TT & TJ.	3,633
16.	..	..	TJ - Erection of IRS type platform No. 4 x 16 on PF No. 1 and Alakkudi - Erection of IRS type platform shelter 2 x 16 metre on platform No. 1 and light weight sheters of 10 Nos. on platform No. 1 & 2.	4,027
17.	..	..	TRS - Provision of FOB connecting station building and BG platform, (id : 1087/05 - 06) Rail type fabrication is completed and precast steps & slabs casting completed.	
18.	..	..	GOC - Replacement of existing Washout Pump set of 45 HP including control panel by new one on age cum condition basis for underground reserrior at SRPM.	2,500
19.	..	..	KMU, NGT, SRGM and TRB stations proposed IRS type PF shelter.	2,046
20.	..	..	PDY Station - Repairs to existing PF storm water drain and construction of drain for CC apron.	2,051
21.	..	..	Villanur halt station raising of RL PF in to HL PF improvements to halt station building by roofing with RCC providing, RCCP ale fecning construction of toilet.	3,571
22.	..	..	ALU Station - Provision of infiltration gallery renewal of GI pipeline and PF tap.	772
23.	..	..	Replacement of roofing sheet and rain water pipe in PF in SE/W/LLI Section.	424
24.	..	..	VM Jn. - Improvements to PF surface by vaccum dewatering concrete and extension of PF for a length of 85 m.	8,942
25.	..	..	KMU - Repairs to damaged kota stone surface at PF No. 1 in view of Mahamaham festival	549
26.	..	..	KMU & MV - Provision of Ground level Reserrior pump shed, bore well including pipe line arrangements (b) TJ, ADT, KTM, Constructions of toilets including water and drainage arrangements (c) TJ Provision for extension of carriage watering arrangemnts at PF 4 & 5.	12,067
27.	..	..	KMU and MV Stations - Provision of Low level platform shelter total 55 bays (ie.) 29 bays in each station.	1,934
28.	..	..	KMU - Proposed extension of Foot Over Bridge connecting platform No. 2/3 to 4.	5,732
29.	..	..	VM - TPJ (ML) Section - Provision of low level platform shelter (Total 130 bays) at way side stations between MV (Excluding) and TJ (Excluding) Stations.	3,862
MADURAI DIVISION				
1.	..	..	MDU Jn. : Raising of Rail & Medium level PF to HL 12 stations.	23,189
2.	..	..	MDU Dn. : PF Shelters 10 Stations.	6,101
3.	..	..	MDU Dn. : SVKS, TN, CVP, KDU, TDN, TSI : Pro of 6 bays of PF. shelters in each stations.	10,312
4.	..	..	MDU Dn. : Provision of 5 bays PF shelters each on PF 1 of Ten and PF. 1, 2 & 3 of VPT.	10,167
5.	..	..	RMM : Improvements to PF. 4 & 5 with water taps PF. shelter etc.	7,533
6.	..	..	PJ - DG Prop. CC Paving on PF at PUG, KLS, SMDM, MPA, CII, VPJ, KFC, AYR, TMP & VDM.	683
7.	..	..	PBKS : Prop, Extn. of RL and LL in PF ! & 2 to BG level for 580 m.	14,342
CE/CN/ERS—(Works Costing morethen Rs. 5 Lakhs.)				
..	..	..	Nil	
CE/CN/MS—(Works Costing morethen Rs. 5 Lakhs.)				
..	..	..	Nil	
MTP—(Works Costing morethen Rs. 5 Lakhs.)				
..	..	..	Nil	

12. Expenditure incurred on Passenger and Other Railway Users' amenities 2015-2016

(Figures in lakhs of Rs.)

1	2	3	4	5
Details of basic amenities and additional facilities	Plan-head Passenger and Other Railway Users Amenities	Plan-head Computerisation	Other Plan heads like New Lines, Doubling etc.	Total
A. Basic Amenities—				
1. Proper booking arrangements.. ..	80	0	0	80
2. Waiting Hall	32	0	0	32
3. Benches	08	0	0	08
4. Suitable arrangements for Electric Lighting	112	0	0	112
5. Drinking water supply arrangements at stations	473	0	0	473
5(a) Drinking water supply arrangements in the trains	56	0	0	56
6. Platform with well maintained surface (Rail level platforms at flag stations)	153	0	0	153
7. Latrines	01	0	0	01
8. Shady trees	01	0	0	01
B. Additional facilities—				
1. Urinals	0	0	0	0
2. Platform Covers	736	0	0	736
3. Bath facilities	0	0	0	0
4. Water Coolers	19	0	0	19
5. Foot Over Bridges or Subways	1882	0	0	1882
6. Washable Aprons	115	0	0	115
7. Retiring Rooms & Rail Yatri Niwas	30	0	0	30
8. Refreshment Rooms, Base kitchens and Trolleys/Stalls for Catering & Vending.	0	0	0	0
9. Improved lighting and fans on platforms	231	0	0	231
10. Enquiry Offices, Train indicator Boards	217	0	0	217

13. Expenditure incurred on Passenger and Other Railway Users' amenities 2015-2016

B. Additional facilities—(Concid).				
11. Reservation Offices—Computerised Reservation.	0	1006	0	1006
12. Improvements to circulating area	310	0	0	310
13. Car, Tonga, Cycle stands	07	0	0	07
14. C. C., TV	09	0	0	09
15. Cushioning of Second Class Berths	0	0	0	0
16. Renovation/Remodelling of station buildings	1086	0	0	1086
17. Carriage Watering	37	0	0	37
18. Book Stalls	0	0	0	0
19. Raising, lengthening, widening and resurfacing of platforms	2365	0	0	2365
20. Public address system	09	0	0	09
21. Exhibition of Time-Table sheets on Glass Fronted Frames.. ..	0	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.	70	0	0	70
23. Improved latrines	0	0	0	0
24. Miscellaneous improvements to existing amenities, viz., provision of seats, hedges, etc.,	1399	0	0	1399
C. Other Railway Users' amenities (for Goods Sheds and Parcel Offices)—				
1. Arrangements for drinking water including water coolers, water trollies, etc.,	39	0	0	39
2. Waiting accommodation	15	0	0	15
3. Refreshment Rooms & Vendors Stalls	0	0	0	0
4. Latrines	02	0	0	02
5. Miscellaneous arrangements like provision of seats, hedges & shady trees	50	0	0	50
6. Lighting arrangements and provision of fans	09	0	0	09
7. Rest shelters for licensed porters	20	0	0	20
Grand Total	9,573	1,006	0	10,579

14. Statement of Actual Expenditure under Amenities for Staff for the year 2014-2015

Sl. No.	Description	(Figures in Thousands of Rs.)		
		Gross	Credit	Net
1	New Hospitals, Dispensaries, additions and improvements to existing ones.	2,33,263	784	2,32,479
2	New Schools, additions, alterations, improvements & additions to Existing ones.	0	0	0
3	New Institutions, rest houses, sports grounds, reading rooms, Improvements & additions to existing ones.	5,341	0	5,341
4	Provision and improvement of health and welfare works & maternity centres.	0	0	0
5	Cooking arrangements for workshops canteens & rest houses for workmen.	0	0	0
6	Provision and improvements of sanitation, water supply, road lighting and marketing facilities in Railway colonies.	9,993	0	9,993
7	Improvements Alterations to Existing quarters whatever type ..	50,561	0	50,561
8	Others Works	3,155	0	3,155
9	Total Col. 1 to 8 (Staff Amenities)	3,02,313	784	3,01,529
10	Provision for Officers' Quarters	1,695	0	1,695
11	Quarters for Class III Staff	1,16,741	1,430	1,15,311
12	Quarters for Class IV Staff	20,499	0	20,499
13	Total Col. 10 to 12 (Staff Quarters)	1,38,935	1,430	1,37,505
14	Total Col. 9 +13	4,41,248	2,214	4,39,034
15	Medical Expenses — J 200	21,21,710	0	21,21,710
16	Health and welfare services — J 300	3,36,833	0	3,36,833
17	Education — J 100.. ..	6,92,606	0	6,92,606
18	Canteen and other staff amenities — J 400	63,303	0	63,303
19	Staff Training — K 500	7,02,805	0	7,02,805
20	Total Col. 15 to 19	39,17,257	0	39,17,257
21	Grand Total Col. 14 + 20	43,58,505	2,214	43,56,291

15. Passenger Traffic 2015-16**No. of stations functioning for issue Passenger traffic during 2015-16.**

- (i) No. of City/Town Booking Offices 3
- (ii) No. of City/Town Booking Agencies Nil
- (iii) No. of Name & Out Agencies 2
- (iv) No. of Street Collection and Delivery services (Pertains to Dy. CMM/F/M).

16. No. of stations opened/closed during 2012-13 for issue of Passenger traffic 2015-16.

- (i) No. & Name of City/Town Booking Offices closed. Nil
- (ii) No. & Name of City/Town Booking Agencies Nil opened/closed.

*(iii) No. of Name of Out Agencies closed.. .. 01

(iv) No. of Street Collection and Delivery services (Pertains to Dy. CMM/F/M).

17. *No. of Halts functioning during 2015-16 .. 155

(includes Halts presently closed as a result of gauge conversion in that section). List enclosed.

- (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 .. 01
- *(v) Train halts closed for passenger traffic .. 01
- (vi) Train Halts re-opened for passenger traffic .. Nil

*Details are enclosed as annexure

18. The Converted BG Line opened for Passenger/Goods Traffic During 2015-2016

Section	Division	Date of opening	Opened for
Polachi Jn. (POY) - Palakkad Town (PGTN) BG Section.	PGT	16.11.2015	Polachi Jn. (POY) - Palakkad Town (PGTN) BG Section is opened for Passenger Traffic.
Polachi Jn. (POY) - Palakkad Town (PGTN) & (POY) - Polachi Jn. Palani BG Section.	PGT & MDU	08.01.2016	Opened for Goods Traffic. The chargeable distance already notified.

19. Section/Line closed for Passenger Traffic during 2015-16.**-NIL-****20. The Station opened/Re-opened for Goods Traffic during 2015-2016.**

Name of Station	Division	Date of opening	Opened for
Aruppukottai (APK) BG	MDU	15.07.2015	Opened for Inward and out ward Full Rake handling for goods traffic.
Karamadi (KAY) BG	SA	31.08.2015	Opened for goods traffic in Wagon Load for Inward and Outward on local booking on temporary basis for period of Six months only.
Pollachi Jn. (POY) BG	PGT	08.01.2016	Opened for goods traffic for both Inward and Outward in local and through booking with Half Rake facility for all description of traffic except POL.
Nilambur Road (NIL) BG	PGT	09.02.2016	Opened for goods traffic for both Inward and Outward in local and through booking with Half Rake facility for all description of traffic except POL.
Puspattur (PPTR) BG	MDU	23.02.2016	Opened for full rake facility for Inward traffic of Edible Crude Oil only.
Walajabad (WJ) BG	MAS	01.03.2016	Opened for full rake facility for Inward/Outward traffic for both local and through booking of Automobile Oil.

21. The Station Closed for Goods Traffic during 2015-2016.

Name of Station	Division	Date of Closing	Closed for
Tiruvalla (TRVL) BG	TVC	23.04.2015	Temporary Closed for goods traffic due to doubling work till 30.09.2015. Extended upto 31.12.2015. The Inward traffic handled at Kayankulam till such time. Further extended upto 31.03.2016.
Salt Coataurs (SO) BG	MAS	23.06.2015	Goods Shed and Parcel Office Closed for all description of traffic.

22. Siding opened for receipt and dispatch of goods traffic in wagon loads.**Siding opened for Goods traffic during 2015-16. 9i. e. from 01.04.2015 – 31.03.2016 is given below :—**

Sl. No.	Name of the Siding	Serving station	Division	Date of opening	Remarks
1.	IL & FS Tamilnadu Power Co. Ltd siding.	Puduchattiram	TPJ	21.08.2015	Opened as an Independent Booking Point.

23. Following improvements have been carried out in the existing lower class carriages during 2015-16.

- * In Southern Railways 1,111 Bio toilets were fitted in 362 GS coaches and 187 Bio toilets in 148 SLR coaches.
- * LHB coaches have been introduced in Mail/Express Trains. The seating capacity in LHB lower class has been increased to 100.



XIV. संरक्षा/SAFETY

The Safety Department 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 Railways. The Safety Department is essentially a department monitoring the safety performance of various departments and helping them to discharge their safety related functions effectively. The scope and functions of the Safety Department have been defined over the years and basically include the following :—

- (1) To sensitize all the concerned departments about the safety related issues.
- (2) To oversee all safety matters concerning train operations.
- (3) Identify safety susceptibilities and vulnerabilities based on various accidents and incidents occurring in the system.
- (4) To establish an effective response mechanism to handle situations arising out of the accidents.
- (5) To enable the departments to deliver the functions which make the above possible.

ACCIDENT STATISTICS

Trend of Train Accidents

(a) Consequential Accidents

Consequential accidents are train accidents associated with loss of human life or grievous injury, damage to railway property or interruption to rail traffic above the laid down threshold levels. The trend of consequential accidents for the last 5 years is given below :—

2011-12	2012-13	2013-14	2014-15	2015-16
7	6	5	2	6

The trend of the index for the past five years on Southern Railway is as follows :—

2011-12	2012-13	2013-14	2014-15	2015-16
0.100	0.080	0.082	0.026	0.078

The Category-wise break-up of consequential train accidents for the past five years given below :—

Type of accidents	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Collision	Nil	1	Nil	Nil	Nil	Nil
Derailment	..	..	..	..	..	..
a) At stations	1	1	1	3	Nil	2
b) In mid-section.	2	1	Nil	Nil	Nil	3
LC accidents						
a) Manned	Nil	Nil	Nil	Nil	Nil	Nil
b) Unmanned	3	4	5	2	2	Nil
Fire in trains	Nil	Nil	Nil	Nil	Nil	Nil
Miscellaneous	Nil	Nil	Nil	Nil	Nil	1
Total	6	7	6	5	2	6

b. Indicative accidents

The number of indicative accidents during 2015-14 was 7. The trend of indicative accidents with category-wise break-up for the last 5 years is given below :—

Type of accidents	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
Averted collision	Nil	Nil	1	Nil	Nil	1
Train passing signal at danger.	Nil	1	6	5	5	6
Breach of block rules.	1	Nil	Nil	Nil	Nil	Nil
Total	1	1	7	5	5	7

SAFETY MEASURES

With the assent on maximizing the usage of existing assets for improving the loading, safety assumes prime importance. Corporate Safety Plan 2003-2013 provided the broad guidelines for improving safety and preventing accidents. Many of the safety measures are arising out of those guidelines.

(A) Railway Safety Review Committee Recommendations

Railway Safety Review Committee set up under the chairmanship of Justice H.R. Khanna, submitted a total of 278 recommendations under Part I and Part II of the report. Out of these, 240 have been accepted fully or partially by the Railway Board. Implementation of the accepted recommendations is in progress and a total of 150 recommendations have already been implemented till March 2012. 66 recommendations are not pertaining to Southern Railway. Implementation of remaining 24 accepted/partially accepted recommendations is at various stages depending upon availability of resources, success of trials, etc.

(B) High Level Committee on Disaster Management System:

A high level committee was constituted in September 2002 to review Disaster management system over Indian Railways and to give recommendations for its strengthening and streamlining. This committee has given 111 recommendations, 4 were deleted by Railway Board. All others have been accepted for implementation. 10 recommendations are not pertaining to Southern Railway. 83 recommendations have been implemented in Southern Railway up to March 2013 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) 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.
- 4) 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 Government and other organizations give yet another opportunity to have direct contact with the public.
- 5) In view to educate the public using Unmanned LCs, posters and pamphlets were issued to School children, near by villagers and Motor Vehicle drivers passing through UMLCs and they were counseled on safety rules to be observed while crossing UMLCs. (D).
- 6) A Summary of safety activities carried out during the year and comparison with the previous year is follows :—

Year	Safety propaganda	Safety seminars	Safety drives
2012 - 13	485	448	47
2013 - 14	681	444	36
2014 - 15	843	570	24
2015 - 16	971	345	34

(D) Safety Propaganda

- ⇒ Safety propaganda is conducted through media such as TV, Radio and Newspaper appealing to public for proper caution at level crossings, not carrying inflammable articles, not to travel at foot board/roof top, etc.
- ⇒ Road users are educated through inter-action and display of safety posters at Village Panchayat Offices etc., by distributing hand outs at retail outlets of Hindustan Petroleum Corporation, Indian Oil Corporation and Bharat Petroleum Corporation and through display of cinema slides.

- ⇒ Action is being taken to educate the road users on the importance of strictly following Motor Vehicle Act provisions at unmanned level crossings through publicity campaigns. These are in the form of short films, slides in cinema halls, local cable TV networks, etc. campaigns in schools, fairs and other areas like weekly markets where public gather, issuing safety pamphlets/hand-bills and conducting street plays.
- ⇒ A Special effort is being made to educate road users about the precautions to be taken while crossing the Unmanned LCs through "SMS" to mobile users in Kerala and Tamil Nadu.
- ⇒ Thiruvananthapuram, Tiruchchirappalli and Chennai Divisions have a group of staff trained to perform street plays for carrying the safety messages to the masses.
- ⇒ Advertisements are carried in daily news papers appealing to public not to carry inflammable articles, not to light fires inside the coaches, avoid footboard travel, safety at unmanned level crossing, etc. Special campaigns are done during Deepavali festival season to ensure that passengers do not carry crackers.

(E) Annual Safety Week

With a view to bring into focus various safety related aspects and also to involve all categories of staff in the effort to improve safety, an **Annual Safety Week** was observed from 12.03.2016 to 18.03.2018. The following were the highlights of the Safety week :—

- ⇒ Safety Seminars at Zonal Railway Training Institute, Tiruchchirappalli focusing on various safety related issues were presented by eminent railway officers.
- ⇒ Competitions on Safety related topics such as Essay, Poster designing, Safety Quiz, Safety Drama, and Ex-tempore speech were held during the period.
- ⇒ Prizes for the winners of various competitions and an overall shield were presented at a colorful valedictory function.

At divisional level, various functions and propaganda campaigns are organized to highlight the importance of Railway safety. These activities include street dramas, folk dances, etc., as a medium to take the message to the masses. Trade fairs organized by State Governments and other organisations give yet another opportunity to have direct contact with the public.

(F) Other Safety Activities

- (i) Fire audit of all AC and Non-AC conducted and deficiencies noted was corrected at the field level.
- (ii) A Safety calendar for 2016 was printed and distributed during December 2015.
- (iii) A gazette extra ordinary was published and distributed to all divisions in connection with prevention of carriage of inflammable articles during Deepavali season.

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I. (a) Accidents involving Casualties during 2015-16

(Excluding Manned/Unmanned LC accidents)

K-Killed G-Grievous M-Minor

Sl. No.	Details of accidents	Casualty								
		Railway staff			Passenger			Others		
		K	G	M	K	G	M	K	G	M
1	While T. No. 16723 MS-TVC 'Ananthapuri' Exp. was on run between Kalligudi and Virudunagar stations, one W/L Board provided on RH side at km.533/000 between Kalligudi and Virudunagar stations hit and severed right arm of one lady passenger and injured leg of another male passenger.	0	0	0	0	1	1	0	0	0
2	While the Train No. 56143 Coonoor-Udghamandalam Passenger was on run in block section, while running between Aravankadu and Ketti stations, its Train Engine derailed by 02 pairs of wheels at km. 32/02-03. Derailed (D-3).	0	0	0	0	0	0	0	0	0
3	While Train No. 12658 passing through BBQ station at D5 point 21st coach SWR ACCW - 13057 all wheels of rear bogie and 22nd coach SWR FACCW - 11001 all wheels of front bogie derailed.	0	0	0	0	0	0	0	0	0
4	Train No. VAPM/N. Goods, while starting from Rd. 5 at IGU station towards PTJ, 3rd and 4th wagon from brake van derailed over point No. 141.	0	0	0	0	0	0	0	0	0
5	While Train No. 16859 down express was passing through KM. 211/4-6 between PVN-VRI, 2 coaches (GSLRD rearmost, and GS second from brake van, capsized and 3 coaches FACCW and 2 ACCN derailed 3rd to 5th from SLR derailed.	0	0	0	0	0	0	0	2	3
6	While Train No. 41056 UP EMU Pass. was running between MTMY-MCPK, all wheels of front truck of coach No. 12744 second from rear Motor Coach of 14052 at km. 7/13-11.	0	0	0	0	0	0	0	0	0

(b) Details of Accidents Involving Casualties During 2015-16 Due to Negligence of Road Users—

Sl. No.	Brief Details	Killed	Injured	
			Grievous	Minor
	Nil			

II. Accidents Statistics – Details

No. of train accidents classified under principal heads which occurred on this Railway (excluding Workshops) during the year 2014-15 and 2015-16 :—

Sl. No.	Particulars	2014-15	2015-16
1	(a) Collision involving passenger trains	Nil	Nil
	(b) Collision involving other than passenger trains.	Nil	Nil
2	(a) Derailments involving passenger trains.	Nil	Nil
	(b) Derailments involving other than passenger trains except train wrecking.	Nil	Nil
3	Derailments due to train wrecking	Nil	Nil
4	Trains running into road traffic at LCs	2	Nil
5	Fire in trains	Nil	Nil
	TOTAL ITEMS (1 to 5)	2	Nil
6	Failure of coupling and draft gear	Nil	Nil
	(a) Passenger	Nil	Nil
	(b) Goods	Nil	Nil
	(c) Other failure of Rolling Stock	Nil	Nil
	(d) Other failure of P. Way	Nil	Nil
7	Attempted train wrecking	Nil	Nil
8	Train running over cattle	Nil	Nil
9	Train running over obstruction	Nil	Nil
	TOTAL ITEMS (6 to 9)	Nil	Nil
	GRAND TOTAL (1 to 9)	2	Nil
10	No. of persons killed :	Nil	Nil
	No. of Railway Servants in workshops	Nil	Nil
11	Accidents on the Railway		
	(a) Passengers	2	Nil
	(b) Railway Staff	6	Nil
	(c) Other than Passengers & Railway Staff.	3	Nil
	Total other than Workshop	11	Nil
12	No. of person injured	42	19
	No. of Railway servants in workshops	2	Nil
13	Accidents on Railways		
	(a) Passengers	Nil	Nil
	(b) Railway Staff	3	Nil
	(c) Other than Passengers & Railway Staff.	4	Nil
	Total other than workshop	4	6

III. (a) Comparative Figures of Consequential Train Accidents attributed to failure of Human Element for the Last 5 years.

Sl. No.	Category	2011-12	2012-13	2013-14	2014-15	2015-16
1	Collision	1	Nil	Nil	Nil	Nil
2	Derailment :					
	(a) At stations	1	1	3	Nil	2
3	(b) In mid-section LC accidents	1	Nil	Nil	Nil	3
	(a) Manned	Nil	Nil	Nil	Nil	Nil
	(b) Unmanned	4	5	2	2	Nil
4	Fire in trains	Nil	Nil	Nil	Nil	Nil
5	Miscellaneous	Nil	Nil	Nil	Nil	1
Total		7	6	5	2	6

(b) Comparative Figures of Indicative Train Accidents attributed to failure of Human Element for the last 5 years.

Sl. No.	Category	2011-12	2012-13	2013-14	2014-15	2015-16
1	Averted Collision	Nil	1	Nil	1	Nil
2	Train Passing Signal at danger.	1	6	5	5	7
3	Breach of Block rules	Nil	Nil	Nil	Nil	Nil
Total		1	7	5	5	7

IV. Train Accidents per million train kilometres on Southern Railway Since 1994-95

Year	Collision	Derailments	Level crossing accidents	Fire in trains	Misc	Total	Million Train kms.	Incidence of accidents per million train kms.
1994-95	3	31	27	1	..	62	60.22	1.029
1995-96	3	35	14	..	..	52	63.27	0.822
1996-97	..	29	11	..	..	40	64.20	0.623
1997-98	2	53	10	1	..	66	65.73	1.004
1998-99	1	50	7	1	..	59	64.83	0.910
1999-00	3	37	7	1	..	48	67.07	0.715
2000-01	2	33	7	1	..	43	68.39	0.628
2001-02	2	23	10	..	..	35	68.80	0.508
2002-03	1	17	8	..	..	26	69.75	0.372
2003-04	..	16	6	2	..	24	59.46	0.403
2004-05	..	2	3	1	2	8	58.63	0.136
2005-06	..	3	4	1	1	9	59.79	0.150
2006-07	..	4	11	..	1	16	60.50	0.240
2007-08	..	4	6	1	1	12	61.62	0.195
2008-09	1	3	5	0	0	9	63.63	0.141
2009-10	1	3	1	0	0	5	65.03	0.077
2010-11	0	3	3	0	0	6	67.34	0.088
2011-12	1	2	4	0	0	7	69.68	0.100
2012-13	0	1	5	0	0	6	70.92	0.084
2013-14	0	3	2	0	0	5	73.08	0.068
2014-15	0	0	2	0	0	2	69.75	0.084
2015-16	0	5	0	0	1	6	76242	0.078

Highlights for the financial year 2015-2016 Pertaining to Traffic Safety**I) Safety Rules :**

Safety Rules are indispensable for the safe working of trains. Periodical reviews of the existing Rules are being done to keep abreast with the changing circumstances. As part of this exercise Three corrections to GRS (Correction Memo Number 01/2015 dated 29/06/2015, C. Memo No. 02/2015 dated 30.06.2015, C. Memo No. 03/2015 01.07.2015, 04/2015 dated 28.08.2015 & 01/2016 dated 24.02.2016) have been issued.

II) Computerization, Updating and Uploading of GRS :

The contents of the GRS were computerized duly incorporating all the Corrections issued hither to and the same was uploaded in the Operating Department's Website of Southern Railway to serve as a reference to all the Staff of this Railway and being updated with the latest corrections.

III) Training :

Training enhances the knowledge, skill and attitude of staff to suit job needs. Training plays a vital role in promoting human resources for achieving safety & 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.

a. The Training details are as follows :—

S. No.	Name of the course	2014-15		2015-16	
		No. of Courses conducted	No. of Trainees trained	No. of Courses conducted	No. of Trainees trained
1	Initial	56	2,435	50	1,800
2	Promotional	8	388	11	524
3	Refresher	86	2,525	94	2,264
4	General	20	228	21	440
5	Safety camp	81	2,466	91	2,247
TOTAL		251	8,042	267	7,275

Development at ZRTI/TPJ

- (i) Laminated BCC and RCC Certificates issued to Trainees from 19.03.2016.
- (ii) Sr. DSTE/TPJ inaugurated Rail net connectivity at Hostel 3 on 22.03.2016 to facilitate Printing of new Hostel permit.
- (ii) Sr. DSTE/TPJ inaugurated first ever group SM on results of courses to trainee on 22.03.2016. All trainees instantly received SMS.
- (iv) ZRTI/TPJ is now available both in railnet and Internet inaugurated by COM/MAS on 24.03.2016.
- (v) SR is one of the few Zones to have such Independent Information Centre. Course details, list of toppers with their photos are provided.

IV Details of Safety Drives ordered by COM from 01-04-2015 to 31-03-2016.

- a) Observances of SWR without any observation (23.04.2015 to 07.05.2015).
- b) Correct procedure to be followed during signal failure (08.07.2015 to 22.07.2015).
- c) Safe shunting practices by traffic shunting staff (06.08.2015 to 10.08.2015).
- d) Prevention of SPAD (02.10.2015 to 18.10.2015).
- e) Observances of the Correct procedure of dealing trains during ensuring at stations on signal section from (08.03.2016 to 17.03.2016).



XV. सुरक्षा व्यवस्था/SECURITY ARRANGEMENTS

MATERIAL PERTAINING TO CIB FOR GM'S ANNUAL REPORT 2015 – 16

I. GENERAL :

RPF/Southern Railway has been consistently performing well in the field of prevention and detection of crime over Southern Railway. Crime has been kept well under control due to continuous effective measures taken 24x7 with increasing use of Technology.

II. CRIME ON SOUTHERN RAILWAY :

Crime against passengers and Railway Property is well under control as concerted efforts are taken by the officers and men of the RPF to ensure the safety and security of all passengers.

III. CRIME AGAINST PASSENGERS :

PRO-ACTIVE MEASURES TAKEN BY RPF TO CONTAIN THE PASSENGER RELATED OFFENCES :

a. SURVEILLANCE :

- To enhance the security level at Stations, Integrated Security System consisting of CCTV, Access Control, Personal baggage screening system and Explosive detection & disposal system has been implemented at an estimated cost of **Rs.39.07 Crores** at 14 important Railway stations. At all the 14 stations, CCTV control rooms are functioning, which resulted in effective surveillance and detection of passenger belonging cases.
- Integrated Security System has been commissioned at 14 Major Railway Stations viz. Chennai Central, Chennai Egmore, Chennai Beach, Mambalam, Tambaram, Basin Bridge, Tiruvallur, Tiruchchirappalli, Madurai, Coimbatore, Trivandrum, Ernakulam, Calicut & Mangalore over Southern Railway.
- Additional 155 CCTV Cameras are being installed at 07 Stations (Chennai Central – 50 Cameras, Basin Bridge-12 Cameras, Moore Market Complex – 12 Cameras, Chennai Egmore – 28 Cameras, Tambaram – 22 Cameras, Ernakulam – 13 & Mangalore -18) under variation clause of ISS.
- First among Indian Railways to complete ISS work.
- CCTVs installed at above stations are also utilized for monitoring cleanliness activities in Railway Stations besides coverage of footages.
- 11 identified stations other than that covered under ISS were provided with CCTV cameras for security surveillance.
- Railway Board has given sanction for the provision of Video Surveillance System at 136 A1, A, B & C category stations (Chennai-Division-82 stations, Trichy Division-08 stations, Madurai Division-13 stations, Trivandrum Division-15 Stations, palghat Division-13 Stations & Salem Division-05 stations) under Nirbhiya Fund and the same is under process.
- In compliance to Hon'ble MR's Budget Speech, action is being initiated on a pilot basis to install CCTVs in selected mainline coaches and ladies compartments of suburban coaches without compromising on privacy.
- A proposal has been sent to Railway Board through GM/S.Rly. for installing CCTV cameras at 95 Railway stations which are not covered under, Integrated Security System & Nirbhiya Fund by utilizing Corporate Social Responsibility (CSR) Fund.

b. Escorting of trains:

- Escorting of trains are being done by RPF and GRP separately after identifying vulnerable trains / sections. On an average, **369** Mail/Express, Passenger and Sub-urban trains are escorted by **1058** RPF staff on daily basis. Apart from this, **214** trains Mail/Express and Passenger trains are escorted by **500** GRP staff on daily basis. Majority of night trains are escorted by RPF/GRP personnel.
- 04 EMU Ladies Special Trains and 16 other EMU trains running over Chennai Division are escorted by RPF Women squad called 'Sakthi Padai'.

- For the safety of women passengers over Kerala, 2 RPF Women Sub-Inspectors and 30 RPF Women Head Constables/Constables are deployed exclusively. Similarly, GRP/Kerala are also deploying women Police in ladies compartments and are also utilizing the services of Kerala Local Police to escort the Passenger trains.

c. RPF Security Help Line No.182 & GRP Help Line No.1512

- All India RPF Toll Free Security Helpline Number '182' has been activated for help of passengers in distress. Wide publicity is given in print & visual media, social networking like "YouTube", etc., besides awareness campaign has been conducted to popularize the same. Further, 182 Helpline has been stenciled in coaches of all the trains besides pasting of stickers.
- Security Helpline No.182 is also printed on the PRS/UTS tickets for the information of passengers.
- GRP/Tamil Nadu also introduced helpline No. '1512' to receive emergency calls from train commuters across the country.

d. Other proactive measures:

- RPF staff on train escort are provided with CUG mobile phones and walkie-talkies while travelling in the coaches adjacent to the ladies compartments to provide effective security to the women passengers. The escorts are attending the ladies compartment during halt of train in the mid section/stations.
- RPF staff access control duty are sensitizing women passengers through Mega phone and public address system, and advised them against sitting near window wearing ornaments and also cautioned them chain snatchers, ToPB criminals, etc.
- Analysis of crime against passengers is under taken periodically, affected sections/ trains were identified and corrective measures were taken to contain the passenger related offences.
- RPF staff on access control duty are attending the trains during halt at en-route stations to prevent entry of unauthorized persons in trains.
- RPF Crime Prevention and Detection Squads and special teams are formed over this Railway to keep surveillance on the criminals to prevent crime in trains and to detect the reported cases.
- Drives against gents travelling in ladies coaches were conducted and the defaulters apprehended prosecuted u/s 162 RA. During the year 2015-16, 1669 defaulters were apprehended and prosecuted with the realization of fine Rs.4,28,050/-.
- Drives against unauthorized hawking / vending were conducted and the defaulters apprehended prosecuted u/s 144 RA. During the year 2015-16, 25973 defaulters were apprehended and prosecuted with the realization of fine Rs.1,19,74,420/-.
- High profile presence of RPF and GRP is ensured at major station platforms as a deterrent measure to anti-social elements and to instil confidence among travelling public.
- Staff on train escort duty are travelling in the coaches adjacent to the ladies coach to provide security to the lady passengers and attending the ladies compartment during halt in the mid-section/stations.
- RPF Dog squads consisting of sniffer dogs are functioning in all Divisional HQrs. and six other important stations of this Railway and these dogs have been frequently utilized for anti-sabotage checks.
- To ensure fool proof security at major railway stations with the sources of RPF, GRP and Local Police, entry points are restricted and passengers are passed through DFMD and checked by HHMD. The baggages of passengers are subjected for screening through X-ray luggage scanner at random.

- Frequent announcements are made through PA systems and loud hailers cautioning the passengers to be more cautious while on journey.
- Video coverage of general coaches are done at important and affected stations to create desired impact in these coaches among anti-social elements if any who may travel in unreserved coaches.
- Small albums containing the photographs of criminals are provided to the RPF staff on train escort duties.
- Awareness pamphlets containing "Tips for safe journey" are distributed to the passengers on platforms / trains.
- RPF Mitra Yojana meetings are conducted regularly to cull out information about the suspected persons in combating crime against passengers.

(e) Passenger Awareness Programmes Conducted :

Sl. No.	Programme	2014-15	2015-16
1	Skit/Forum Drama conducted	255	181
2	Meeting with Coolies	371	275
3	Feedback Forms obtained	14101	13665
4	Pamphlets Issued	154944	255199
5	Awareness programme outside the Railway premises ..	390	522
6	Stickers pasted	53795	120477
7	FM Channel	7	7
8	Slides projected in cinema hall	41	41
9	Video coverage of GS coaches	108	9281
10	Assistance from NGOs/Scouts etc., utilized	40	40
11	Decoy Check conducted	612	767

(f) Crime against passengers – Comparison of Crime :

Category	2014-15		2015-16	
	Registered	Detected	Registered	Detected
Murder	2	1	1	1
Dacoity	0	0	2	2
Robbery	44	16	63	41
Theft	657	347	637	318
Chain Snatching	72	21	60	20
Drugging	15	1	8	1
Total	790	386	771	383

- Crime rate has increased by 2.4 % during the year 2015-16 as compared to 2014-15.
- Detection % has decreased by 1% during the year 2015-16 as compared to 2014-15.

g. Action taken by RPF against crime on passengers:

- During the year 2015-16, 92 criminals involved in theft of passenger belongings and other passenger related crime were apprehended by RPF and handed over to concerned GRP for registration of cases.

h) Passenger Facilitation by RPF :

Sl.No.	Details	2014-15	2015-16
1	Assistance given to injured passenger on train journey ..	414	741
2	Handing over of runaway children	316	461
3	Securing of abandoned baggage's	908	990
4	Seizure of contraband Goods (Narcotic substances, Ganja, Illicit liquid, etc.,).	Rs. 3.46 Lakhs in 70 instances	Rs. 4.14 Crores in 91 instances

IV. CRIME AGAINST RAILWAY PROPERTY :

Effective preventive measures are being taken by RPF/Southern Railway to contain crime against Railway Property and bring down the incidents of theft/pilferage, resulted in, theft of Railway Property was well under control. Figures of incidents of theft of Railway Property, both Booked Consignments and Railway Materials are given below :—

(a) Theft of Railway Property :**(i) Booked Consignment – Localised cases :**

Year	No. of cases		Value of property		Remarks			
	Rep.	Det.	Stolen	Recovered	Arrest Made	Less Value	Closed as undetected	Pending Enquiry/ value
2014-15	8	5	465170	453870	13	0	01/3300	02/8000
2015-16	11	5	171730	20600	14	0	4/11150	02/139980

OS – Outsider

(ii) Railway Material – Localised cases :

Year	No. of cases reported	No. of cases detected	Property stolen	Property recovered	Total arrest made		Other disposal (SLF, MOF,UD).	Pending enquiry/ value
					OS	RE		
2014-15	200	186	1964180	1651706	291	11	3/30225	11/236012
2015-16	199	175	1790372	1579107	309	04	2/18494	22/57207

OS – Outsider & RE – Railway Employee

(b) Performance under Railway Property (Unlawful Possession) Act, 1966 :

This Act provides an effective leverage to control crime against Railway Property. Surveillance is kept over suspects & criminals by RPF personnel of this railway and the offenders are booked under the provisions of this act with seizure of stolen railway property. The performance under this Act is as follows:—

Year	No. of cases registered	Value of stolen property recovered	Arrest made	
			OS	RE
2014-15	452	Rs. 24,55,338/-	583	11
2015-16	390	Rs. 25,60,653/-	556	03

- Detection % has decreased by 13.71% during the year 2015-16 as compared to 2014-15.
- Recovery value increased by 4.28 % during the year 2015-16 as compared to 2014-15.

C. PERFORMANCE UNDER RAILWAYS ACT, 1989 :

Relentless drives against anti-social elements indulging in illegal sale of reserved rail tickets, cornering of berths/seats, hawking, begging, etc., in stations and trains are conducted by RPF personnel over this railway and the defaulters are prosecuted under the provisions of this Act. The results achieved during the year 2015-16 is furnished under :—

Year	No. of cases booked	Fine amount realized
2014-15	1,04,915	Rs. 2,69,04,807/-
2015-16	1,10,168	Rs. 2,94,07,490/-

- Registration of cases increased by 5% during the year 2015-16 as compared to 2014- 15.
- Increase in realization of fine by 9.30% during the year 2015-16 as compared to 2014- 15.

a) Results achieved under Important Railways Act sections during the year 2015-16:

Sl.No.	Offence u/s	No.of persons apprehended	Fine realized
1	Transfer of reserved rail tickets (142) ..	75	Rs. 55,150/-
2	Unauthorisedly procuring and selling of rail tickets (143). ..	67	Rs 30,000/- (56 pending enquiry/ trial).
3	Unauthorized Hawking/Vending (144) ..	25973	Rs1,19,74,420/-
4	Alarm Chain Pulling (141) ..	1181	Rs 7,11,710/-
5	Footboard travelling (156) ..	11605	Rs.23,72,150/-
6	Gents travelling in ladies coaches (162) ..	1669	Rs 4,28,050/-
7	Smoking (167) ..	8188	Rs 8,28,200/-

V. RPF ASSISTANCE TO TICKET CHECKING STAFF:

RPF is providing necessary assistance to commercial branch in ticket checking drives. The following are the details of ticketless travellers apprehended and fine amount realized for the year 2014-15 & 2015-16.

Year	RPF staff deployed	No. of ticketless apprehended	Amount of fine realized
2014 – 15	7379	6,03,723	Rs. 21.71 Crores
2015– 16	11311	4,78,872	Rs. 18.67 Crores

VI. RPF DOG SQUAD:

- a. Southern Railway RPF is the pioneer in forming of RPF Dog Squad over Indian Railways. The Southern Railway Dog Squad was formed in the year 1958 on the pattern of Madras State Police Kennel and later expanded. At present, Southern Railway has 12 Kennels with a total strength of 32 dogs consisting of Labrador, Doberman and German Shepard. 65% of the existing strength of RPF dogs comprise of Sniffer dogs trained in detection of explosives. The dog squad conducts regular checks at important Railway junctions where Kennel is located.
- b. **Zonal RPF Dog Training Centre** is functioning at Podanur with all equipments and infrastructure facility for imparting basic training to sniffer and tracker dogs of Indian Railways. This is first of its kind on Indian Railways and merits as a significant achievement towards modernization of the Force. So far, 204 Dogs (Sniffer – 143, Tracker – 61) of various Zonal Railways were trained in this training centre. 11 dogs (WR-06 & NCR-05) from all Indian Railways are presently undergoing initial training at ZTC/ Podanur.

VII. MAIN EVENTS DURING THE YEAR 2015-16:**1. Awareness Programme against trespassing of Railway track:**

On 13.04.15, an awareness programme against trespassing of Railway track was organized at Mambalam Railway station with the participation of DRM/Chennai, IG/Rlys/Tamilnadu, SRP/Chennai, Inspectors/ RPF/GRP and staff and appealed the passengers through PA System "not to cross railway track and to use foot over bridge". Pamphlets containing "safety tips" were issued to the passengers.

2. Implementation of 'Indian Railways (Penalties for activities affecting cleanliness at Railway premises) Rules-2012':

During the year 2015-16, 3071 persons were found littering on railway premises and hence fined Rs.8,20,975/- which was collected through money receipt and remitted to Railway's exchequer.

3. Observance of Passenger and Customer facilitation Fortnight ("Railyatri/ Upbhokta Pakhwada) from 26.05.2015 to 09.06.15".

As desired by Railway Board, a special observance on Passenger and Customer facilitation fortnight (Railyatri – Upkhokta Pakhwada) focusedly launched by RPF/S.Rly in order to improve passengers' amenities and customer care, etc. with great fervor from 26.05.2015 to 09.06.2015. The following activities were carried out for passengers and customer facilitation:-

Sl. No.	Activities	Result achieved during the drive period.
01	Checking up of entry of antisocial elements in station premises & Circulating area.	In all the drives, 5069 defaulters were apprehended and dealt under relevant provisions of Railways Act.
02	Formation of special teams to nab touts and prosecution under relevant provisions of Railway act.	Designated teams formed in this regard, detected 11 cases and registered u/s 143 RA.
03	Deployment of all Women RPF Constables/HCs/ ASIPFs/ Sub-inspectors in the field for visible presence in stations and for better service and security to female passengers.	Visible presence of Women RPF staff was ensured in stations and ladies compartments of all EMU trains and Ladies special sub-urban trains were escorted by Women RPF staff.
04	Special Drive by RPF teams in suburban section affected with nuisance.	06 teams consisting of 36 RPF staff conducted drive against nuisance in Suburban section. In 502 drives conducted, 959 cases were registered against the nuisance mongers.
05	Action against gangs of poisoning/ drugging, luggage lifting etc. (No. of gangs busted & handed over to GRP).	395 passenger awareness campaigns were organized including decoy checks in trains against drugging menace. 09 criminals were apprehended for indulging in crime against passengers and handed over to concerned GRP for registration of cases.
06	Cleanliness drive and up gradation of hygiene at all RPF Posts with special attention for women in force.	Mass Cleanliness campaigns were organized at 50 Railway stations and utmost steps have been taken to maintain hygiene in all Posts with special attention for Women in Force.
07	Smarter uniform/turnout.	Ensured in all the RPF Posts / OPs and also at the work spot.
08	Special care and attention towards elderly people, women and children.	04 elderly people were rendered medical assistance who fell ill in their journey.
09	"Service with smile" banner was placed at appropriate places mentioning about the drive with title that "RPF security and service with dedication".	Banners displayed at important stations and RPF staff were briefed to service with smile.
10	Health awareness camp of RPF staff was conducted by taking assistance of railway medical service with primary health check-up for lifestyle related diseases.	Health awareness campaigns were organized in co-ordination with medical department and 724 RPF staff were benefited.
11	Review of quality of food and breakfast from the point of view of desired nutrition in each and every barrack so that useful utilization of ration money is ensured.	In S.Rly., RPF staff are counseled to have nutrition food daily wherever available.
12	Family of each and every member of the Force to plant 05 trees as a social obligation towards environment.	A total 1880 saplings were planted in Railway area by RPF and family.

13	Passenger awareness Campaign through briefing general class passengers by using loud speakers at Junctions/Stations where the trains originate.	Public awareness campaign on passenger security and safety with the participation of celebrity guest Shri.Karthi a famous cine actor at Chennai Central on 09.06.15 addressing travelling public about the seriousness and consequences of crossing of LC gates, trespassing the railway track, travelling on the foot board of trains, entraining and detraining of moving trains etc., Pamphlets on the above have also been issued. Mass awareness SMS: 45 Lakhs messages were relayed to the customers of Airtel to alert them against chain snatching, theft of baggage, drugging etc. Broadcasting on FM Radio: Suryan FM radio, Chennai gave wide publicity by spreading alert messages on the seriousness and consequences of trespassing the railway track, travelling on the foot board of trains, entraining and detraining from moving trains, etc.
14	Consultation with retired officers of RPF for seeking suggestions for improvement in RPF working and security on Railways, also for assistance in public centric services of RPF as well as for the purpose image building.	08 meetings were conducted with retired officers and obtained suggestions for improvement in RPF working.

4. Observance of "Level Crossing Awareness Week" and "International Level Crossing Awareness Day -2015".

As desired by Railway Board, a 05 days long Safety drive from 01.06.15 to 05.06.15 was launched by RPF in all Divisions of this Railway at Unmanned / Manned Level Crossings, besides observance of "International Level Crossing Awareness Day 2015" on 03.06.2015 in co-ordination with Safety Branch, GRP and Civil Authorities. During the drive period, special emphasis was given on the following aspect as enumerated in the Board's letter to avoid loss of human lives and damage to Railway property:-

- 1) Advertisements through print media were made in regional / vernacular languages appealing road users to strictly adhere to the safety rules while crossing the unmanned / manned Level crossings.
- 2) Awareness campaign were telecasted in "Jaya TV" and "Polimer TV" on 06.06.15 and was also published in News Papers.
- 3) **20750** nos. of pamphlets containing safety tips, sensitizing the road users to strictly adhere to the safety rules while crossing unmanned/manned level crossings were issued / pasted at **108** UMLCs/LCs. **1115** Road users were counseled and safety stickers pasted on their vehicles, besides hand bills were issued to individuals.
- 4) **05 Lakhs** Airtel customers were given SMS on the theme "life is more precious than time. STOP, LOOKOUT for TRAINS before crossing unmanned level crossings" advising the road users.
- 5) Conducted special safety awareness programmes at Manned LCs/Unmanned LCs in the presence of media persons and the potential hazard of using ear-phone by pedestrians and speakers by the drives of road vehicles while crossing UMLC was explained to the road users are cautioned to desist from such activities.
- 6) Skit / Forum dramas utilizing trained RPF and Scout Students and playing of folk songs were organized at strategic locations with motto of 'Safety at Level Crossing'.

- 7) Safety Awareness campaigns were organized at Schools located nearby Railway track and seminars on safety at Level Crossing were also conducted. Such awareness campaigns are also organized at Local Petrol bunks, Bus stand, etc. School bags, pencils, erasers, pencil boxes printed with LC awareness slogans were distributed to the pupils.
- 8) Ambush checks at UMLCs were conducted by RPF in co-ordination with RTO, Local Police, GRP & Safety Branch and no irregularity was noticed. However, road users were advised to strictly adhere to the safety rules and they were explained about prosecution and punishment under section of MV Act and Railways Act for violation of safety rules.
5. **Observance of International Yoga Day:**
On 21.06.15, International Yoga Day was observed by RPF in all Divisions and practiced Yoga to stay healthy.
6. **Observance of International Day against Drug abuse and Illicit trafficking:-**
On 26.06.2015, an observance as 'International Day against drug Abuse and illicit trafficking' was organized by Narcotic Control Bureau in all Divisions with the active participation of RPF on the theme "Think Health - Not drugs" which aims to convey a message to public, particularly youngsters against drugs.
7. **Intensive campaign on 'Public safety on Railway track':**
RPF/ Chennai Division has been launching awareness campaigns on 'Public safety on Railway tracks' through visual media, Skit/ Forum Drama, Music shows, social media, etc, to prevent untoward incidents of falling down from running trains, trespassing of railway track, etc. which leading to loss of lives or limb.
 - Six colleges / schools have been covered, wherein 16,000 students started the programme.
 - Despite warning boards, 624 persons, who were found trespassing were dealt under Railways Act during the last 03 months.
 - 1000 nos. of anodized plates cautioning the passengers were mounted in the Sub-urban trains for the awareness of commuters.
8. **Bandobust Arrangements for Sahaj Marg Spiritual Foundation:**
Sri Ram Chandra Mission (SRCM) has organized 03 days Shaj Marg Spiritual campaign at Tiruvallur from 23.07.15 to 25.07.15. More than 50,000 delegates from all over the country and world arrived Tiruvallur through rail mode and participated. RPF/Chennai Division in co-ordination with GRP and Local Police made elaborate bandobust at Tiruvallur Railway station. The mega event went off peacefully.
9. **Detection of Child Trafficking:**
On 08.08.15, on a tip off, RPF /Chennai Central in co-ordination with GRP rescued 40 children from trafficking who were brought from Bihar to Chennai by T.No.06335 Guwathi-Kochuveli Exp. to be taken to Bengaluru. In a similar move, on the same day, RPF/Kayankulam rescued 07 children of Jharkhand from T.No.16605 Mangalore-Nagercoil Exp. on arrival at Kayankulam. In both the instances, the traffickers were apprehended and handed over to the Police for legal action and the rescued children were handed over to Child Help line for their better care and protection.
10. **Special security arrangements for Velankanni festival :**
During Velankanni festival (Trichy Division) from 28.08.15 to 09.09.15 with inflow of huge numbers of pilgrims from all over the country to the festival, RPF in co-ordination with GRP/Local Police and sister departments of Railways has arranged special bandobust to the passengers which includes escorting of all trains originating from/destined to Velankanni, CCTV coverage, checking of passengers baggages through DFMD, luggage scanner, utilization of sniffer dogs, deployment of RPF commandos, fire/stampede preventing preparedness, etc. The festival went-off peacefully without any hitch.
11. **Intensive campaign on 'Public safety on Railway track':**
RPF/ Chennai Division has been launching awareness campaigns on 'Public safety on Railway tracks' through visual media, Skit/ Forum Drama, Music shows, social media, etc, to prevent untoward incidents of falling down from running trains, trespassing of railway track, etc. which leading to loss of lives or limb. During the month under review, 06 Institutions were covered with such programmes participated by many as 9,000 students.

Further, RPF/ Chennai Division has launched awareness campaigns on 'Public safety on Railway tracks' through visual media, Skit/ Forum Drama, Music shows, social media, etc, to prevent untoward incidents of falling down from running trains, trespassing of railway track, etc. So far 12 Institutions were covered with such programmes and reaching as many as 25,000 students.

12. Hon'ble MR directive – Drives to check ticketless travel:

As desired by Hon'ble MR that focused drives to check ticketless travelers, RPF staff have been deployed to assist ticket checking squads in their drives against ticketless travelers over this Railway. In Chennai Division, 13 selected stations have been identified and access control is being exercised so as to ensure that only persons with proper ticket/authority enter into the ticketed area of the station with an aim to prevent ticketless travel in trains. Notice boards has been displayed at the entry points of the stations to make aware of the passengers to show their travel authority before entering into the ticketed area of the station. Similarly, in all other Divisions, RPF assistance is being provided adequately.

13. Swatchh Bharath Mission.

A mass cleanliness campaign at Villivakkam Railway station was organized on 04.10.2015 by mobilizing 58 Supervisory officers and 60 other ranks of RPF from various Posts, Out Posts and HQrs. CSC/S.Rly., and 6 GOs of Divisions and Hqrs. had attended the campaign which involved. 02 hours active cleaning of station/ platforms from 10.00 to 12.00 hrs including removing of garbage dumped near the track and green vegetation. Similar cleanliness campaigns were also organized at Perambur, Pallavaram stations and at 36 RPF Posts/Out Posts during the month under review.

RPF/Chennai Division organized a mass cleanliness campaign at the following places:

At Tiruvallur on 15.11.15, Jolarpet on 25.11.15, Chennai Central and Basin Bridge Railway stations on 28.11.2015 in which the **station premises** were kept cleaned.

At Jolarpet, Katpadi, Chennai Egmore, Annanur, Chengalpet, Tindivanam, Aynavaram and Tambaram from 16.12.15 to 31.12.15 in which the **colonies** were kept cleaned.

At Ennore and Sullurpet railway stations on 29.01.16 & 30.01.16 and cleaned the **stations**.

At Mylapore, Tambaram, Mambalam, St.Thomas Mount, Tindivanam, Chengalpattu railway stations from 24.02.2016 to 27.02.2016 and cleaned the **stations** including RPF **Barracks** and **approach roads**.

14. Special drive against carrying of inflammable articles and fire crackers in trains:

A special drive against carrying of inflammable articles and fire crackers in trains / stations was launched in all divisions during Diwali season. Besides awareness programmes were also conducted displaying banners cautioning passenger against carrying inflammable article and fire crackers. During the drive period, 9 defaulters were apprehended for carrying fire crackers in trains and prosecuted under relevant provisions of Railways Act realizing a fine of Rs.5,250/-.

15. Special Bandobust arrangements :

i. Tiruvannamalai Karthigai Deepam Festival:

RPF/Trichy Division has provided elaborate security arrangement at Tiruvannamalai Railway station from 24.11.15 to 26.11.15 by mobilizing 41 RPF staff from other stations and in co-ordination with GRP and Local Police for traditional festival of 'Tiruvannamalai Karthigai Deepam' where huge number of people thronged. The trains running through Tiruvannamalai were also escorted. The festival went off peacefully without any untoward incident in Railways.

ii. Heightened Security for observance of Babri Mazjid Demolition Day:

On 06.12.15 being the anniversary of "Babri Mazjid Demolition Day" security was beefed up over Southern Railway in close co-ordination with Local Police and GRP. All precautionary security measures including conduct of anti-sabotage checks in trains/premises with the assistance of RPF Dog Squad and BDS, frisking of passengers' baggage through X-ray luggage scanner and checking of vehicles were intensified in all divisions of Southern Railway to thwart any untoward incident.

iii. Special Bandobust to Kumbakonam Mahamaham Festival:

Kumbakonam Mahamaham Festival, a traditional festival which is being celebrated once in 12 years, was held this year from 13.02.2016 to 25.02.2016. About 35,45,000 pilgrims visited the shrine during the period in which about 4 lakhs pilgrims had visited Kumbakonam on the auspicious "Thirthavari Day (22.02.2016)". Since, Mahamaham pond is very close to Kumbakonam Railway station, the pilgrims mostly preferred rail mode to reach festival spot. A detailed study on the importance of the festival as well as the proximity of Kumbakonam Railway station to the venue was held and an indepth security scheme was chalked out in co-ordination with local Administration / Police, GRP and Railway Authority. Accordingly, a special bandobust was made by mobilizing and deploying 530 RPF Officers & Staff and 04 Companies of RPSF Personnel round the clock. All precautionary measures viz. setting up of Security Control room equipped with CCTV, using of Walkie-Talkies, Loud Hailers, Megaphones, Barricading of pathway, displaying toll free Security Helpline No.182, Standby Disaster Rescue team, Fire Tenders, Checking of strength of FOB, etc. were carried out. The festival went off peacefully without any untoward incident and crime against passengers.

iv. Special Bandobust for 'Attukkal Pongala' Festival at Trivandrum:

"Attukkal Pongala" a famous / traditional festival held every year at the temple situated nearby Trivandrum Railway station, was celebrated on 23.02.2016. About 35 Lakhs women devotees thronged around the temple in the radius of 12 Kms. including Railway station area to celebrate the festival. Elaborate bandobust arrangements were made by RPF at Trivandrum Railway station in co-ordination with GRP, Local Police & Civil authorities. The festival went off peacefully without any untoward incident in Railway premises and no disruption to any train service in this regard.

16. Heightened Security for Republic Day Celebrations:

In view of security threat perception in the run up to the Republic Day celebrations 2016, security was beefed up over Southern Railway in close co-ordination with Local Police and GRP. All precautionary security measures including conduct of anti-sabotage checks in trains/premises with the assistance of RPF Dog Squad and BDS, frisking of passengers' baggage through X-ray luggage scanner and checking of vehicles were intensified in all divisions of Southern Railway to thwart any untoward incident.

VIII. PARADES CONDUCTED:**i. Independence Day Celebrations:**

On 15.08.2015, 69th Independence Day Celebration was held at Southern Railway Hqrs Office/Chennai with GM/Southern Railway as the Chief Guest. Amidst the impressive ceremonial parade conducted by RPF, GM/S.Rly hoisted the National Flag. In appreciation of excellent parade performance of RPF staff, GM/S.Rly has granted a group cash reward of Rs.30,000/- to the parade participants, Rs.20,000/- for Commandos and Rs.5000/- for Dog Squad. Similar ceremonial parades were also held at all Divisional and Workshops Hqrs. of this Railway.

ii. 59th RPF Raising Day Celebration:

On the eve of 59th RPF Raising Day Celebration, various programmes have been organized by RPF in all Divisions from 29.08.15 which include Blood Donation Camps, Passenger awareness programme, passenger interaction, painting competition for wards of RPF staff, special health checkup camp for RPF staff, Mass Cleanliness drive at RPF Posts/ Out Posts / Barracks, Tree plantation, seminar on superannuation benefits, etc. On the concluding day 07.09.15, an excellent ceremonial parade was held with Sri Vashishta Johri, GM/S.Rly. as Chief Guest, who took the salute and gave away the DG's Insignia to the recipients. The parade was followed by Tattoo show and various skill display of RPF much to the acclaim of the gatherings. In appreciation of scintillating parade and show, GM/S.Rly gave 'on the spot' cash reward Rs.55,000/-

iii. National Police Day Parade:

On 21.10.15, National Police Day Parade was held by RPF/ S.Rly in remembrance of RPF, Police and Paramilitary Forces personnel who laid down their lives at the altar of duty. IG-cum-CSC/S.Rly and other officers of RPF paid homage to the martyrs by placing wreaths on the martyr's memorial.

iv. Rashtriya Ekta Diwas Pledge:

The birth anniversary of Sardar Vallabhbhai Patel was observed as National Unity Day on 31.10.15 by holding a Ceremonial Parade at GM's Office/S.Rly. CSC/S.Rly., administered the 'Rashtriya Ekta Diwas' pledge to RPF on the occasion. On the previous day i.e. on 30.10.15, Ekta Diwas pledge was administered to all HQ staff by CSC.

v. Republic Day Celebration: -

On 26.01.2016, a ceremonial parade was organized by RPF at RPF Parade Ground/Ayanavaram, Chennai on the eve of the 67th Republic Day Celebration with GM/S.Rly., as the Chief Guest. GM/S.Rly. hoisted the National flag, took the salute and conveyed the Republic Day message to the gathering. The parade was followed by Commando show, Dog show, cultural programme, etc. In appreciation of the excellent performance, GM/S.Rly. announced a group cash reward of Rs.70,000/- to the RPF staff. Similar ceremonial parades were also held at all Divisional Hqrs. and Production Units of this Railway.

One RPF contingent also took part in the Republic Day parade at State level held at Chennai Marina Beach and Trivandrum Central Stadium respectively.

IX. ACHIEVEMENTS MADE DURING THE YEAR 2014 - 15:**a. IN CRIME DETECTION:**

- On 19.07.2015 a case of theft of Railway cash from Mangalore Booking Office was reported wherein an amount of Rs.9,00,000/- was stolen. RPF / Mangalore detected the cases with the arrest of seven criminals with recovery of stolen railway cash to the tune of Rs.7,80,200/- on 19.07.2015. Efforts are being taken to arrest the rest of the criminals suspected to be involved in this case and to recover the balance railway cash.
- On 14.06.15, RPF/Virudhunagar detected theft of 300 mtrs. of cast iron pipe worth Rs.141100/- at UMLC No. 454 at KM 603/400 between RJPM & SNKL Railway stations with the arrest of 06 outsiders (including 01 receiver) & 02 Railway employees.
- On 06.11.2015, RPF/Gummudipundi detected theft of engineering materials valued Rs.63,000/- at KM 22/ 2-4 between Attipattu and Nandiampakkam Railway stations with the arrest of 07 outsiders including 02 receivers.
- On 10.10.2015, RPF/Karur arrested 03 accused persons who involved in theft of booked consignment materials of one wooden case containing OFT Binocular, valued Rs.124980/- from T.No.16860 Exp., Ex.Mangalore – Chennai Egmore on 10.09.2015.
- On 12.01.16, RPF/Tondiarpet arrested 06 criminals including 02 receivers of railway stolen property with recovery of Electrical materials (copper cable from coaches) valued Rs.64,590/-.

X. SYSTEM IMPROVEMENT:**1. Brain Storming session on run over incidents on railways:**

On 28.04.15, Sr.DSC/Chennai organized a brain storming session on run over incidents at meeting hall, DRM's Office/Chennai with the participation of DRM/Chennai, IG/Rlys/Tamilnadu, ADRM & Divisional Branch Officers, Sr. Officers and functionaries of GRP and representatives of NGOs & Passengers' Associations. In the session, discussions were held at length to prevent run over incidents on railways and an action plan was evolved on the basis of suggestions from various quarters to prevent loss of life on railways.

2. Implementation of 'Indian Railways (Penalties for activities affecting cleanliness at Railway premises) Rules-2012':

In order to keep the railway premises and train compartments free from littering the above Rule as been implemented in Southern Railway, the persons found littering on railway premises were fined through money receipt and remitted the same to Railway's exchequer.

3. **Workshop on 'Online Touting and E-ticketing frauds':**

On 22.7.15, RPF/Chennai Division organized a workshop on 'online touting and e-ticketing frauds' which was attended by IG-cum-CSC/S.Rly., Dy.GM/IRCTC, Sr.Executive/IRCTC, Chennai and Sr.DCM/Chennai. The officers shared their experience on technical and legal aspects of e-ticketing frauds with 46 SOs & other ranks of RPF and 03 CTI/TTEs who attended the workshop and benefited.

4. **Implementing 'Operation Dignity':**

RPF/Chennai Division has taken up an ambitious project of rescuing old aged, disabled and hapless persons who are found taking shelter in the Railway stations and trains. During the rehabilitation programme, 45 destitute and homeless persons were secured and handed over to various NGOs. Such humanitarian gesture is being continued.

5. **Survey of abandoned vehicles at Railway stations:**

As per the direction of the High Court of Chennai to clear off all the abandoned vehicles from the railway station premises, a survey was conducted and detail of such vehicles were collected and being uploaded in the Railway websites also to facilitate the owners to claim the same. SRP/Chennai has been provided with a list of such vehicles to take necessary action to clear off duly adopting legal formalities.

6. **Operation HAMLA:**

On 12.09.15, Coast Guard, Puducherry organized an operation 'HAMLA' at Puducherry Railway station on the pretext of Terrorists Infiltration with bomb in which RPF staff / Puducherry had participated and conducted a special check in detecting bomb in empty rake of T.No.16573 Exp. and 03 terrorists (Coast Guards) on the Puducherry Rly. station platform. During the exercise, the response of RPF was swift and sustaining.

7. **'Suvidha Squad' against unreserved passengers travelling in Sleeper and Disabled coaches:**

Following the complaints of unreserved passengers occupying sleeper class and coaches meant for disabled persons, a special squad called 'Suvidha' has been formed to deal with against the menace in selected Howrah bound trains wherein the entries of the SL coach and SLRD coach is being checked by RPF till the departure of the trains. Strict instructions are given to the RPF field personnel including train escorts to ensure that such unauthorized passengers are detained and fined in co-ordination with ticket checking staff in order to make hassle free journey of bonafide passengers.

8. **Interaction session with Judicial officers:**

RPF/Chennai Division organized an interaction session from 24.11.15 to 25.11.15 with the participation of Addl. Director, Judicial Academy, Chennai along with 72 trainee District Judges and RPF Officers at Chennai. In the session, organizational set up of RPF/GRP, its function and role in Railways were explained. They also visited CCTV Control Room and Bomb Squad of Chennai Central.

9. **Humanitarian assistance during flood situation in Chennai:**

During the first week of December-15, Chennai and its sub-urban have met with sudden shower, incessant rain fall and marooned. Train services were also completely paralyzed and all the incoming trains towards Chennai were regulated en-route. RPF/Chennai Division has rendered valuable assistance to the stranded passengers which includes logistic support, access control, waist /neck band announcement, setup of relief camps in MRTS stations and distribution of relief materials among the flood affected victims and in rehabilitating them at various centres. RPF staff of Palghat, Trichy, Madurai & HQrs./MMC voluntarily contributed for procurement of relief materials and supplied to flood hit people.

10. **Special campaigns to popularize Toll Free Security Helpline No.182**

During the month under review, special campaigns at schools/ colleges to popularize the Toll Free Security Helpline No.182 were initiated in all the divisions especially in Kerala portion of Southern Railway. In the campaigns, large number of Schools/Colleges, Institutions, etc., were covered. Pamphlets containing Toll Free Security Help Line No.182 & Safety tips to the passengers were distributed. The initiative attracted wide publicity / Press coverage in regional News Papers viz., The Hindu, Vijayavani, Kerala Mathru Boomi.

11. Meeting with Judicial Officers:

Sr.DSC/Chennai organized a meeting with Judicial Officers and RPF Officers on 03.02.16 and 04.02.16, wherein Asst. Director, Judicial Academy, Chennai along with 76 trainee District Judges attended. Organizational Setup of RPF/GRP, its function and role in Railways were discussed. They also visited CCTV control room, Bomb detection squad, etc.

b. IN SAFETY HAZARD:

1. During the year 2015 – 16, the following **02** special safety drives were conducted by RPF/Southern Railway at manned/unmanned level crossing in all Divisions of Southern Railway in co-ordination with civil authorities, Safety Branch and GRP focusing on the following aspects as enumerated in RB's letter to avoid loss of human lives and damage to Railway property.

1. From 01.03.15 to 31.03.15 : Month long drive.
2. From 01.06.15 to 05.06.15 : International Level Crossing Awareness Week.

During the drive period, the following measures were taken:-

- i. Vehicles and passers-by who crossed the unmanned Level Crossing were sensitized on STOP, LOOKOUT & PROCEED theme.
- ii. Whistling habits of Loco drivers were also checked and no deficiencies were noticed during the drive period.
- iii. During the drive period, Special pamphlets sensitizing the public to take care while crossing unmanned level crossings were issued and vehicle drivers were counseled and safety stickers were also pasted on the road vehicles. SMS containing safety tips were issued through Airtel service provider.
- iv. UMLCs and LCs vulnerable for accident have been targeted for awareness programme.
- v. Awareness campaigns were also organized at Petrol bunks, bus stands, etc.
- vi. Glow sign hoardings / flexi boards were displayed at vital unmanned Level crossings educating the road users about the safety rules at UMLCs.
- vii. Frequent announcements at stations through PA system regarding precautions to be taken at UMLCs, were made.
- viii. Wide publicity was given to the general public on safety at unmanned level crossing through print and visual media.

2. Ambush Checks at Unmanned Level Crossings:

Ambush checks are conducted by RPF at unmanned LCs and the defaulters are prosecuted u/s 161 Railways Act for violating safety Rules and negligently crossing unmanned LCs. During the year 2015-16, **04** defaulters were apprehended and prosecuted.

3. Safety Drive against trespassing of Railway track and closed LC gate, etc. were also conducted from 21.10.2015 to 04.11.2015 with awareness campaign in order to prevent loss of human lives and railway property.**4. Intensive campaign on 'Public safety on Railway track':**

RPF/ Chennai Division has been launching awareness campaigns on 'Public safety on Railway tracks' through visual media, Skit/ Forum Drama, Music shows, social media, etc, to prevent untoward incidents of falling down from running trains, trespassing of railway track, etc. which leading to loss of lives or limb.

5. Mock drill was conducted by Operating Branch / Trichy on 31.03.16 in the pretext that T.No.56712 Trichy – Karaikal Pass., while on its run between Saliamangalam and Needamangalam stations hit against one tractor which suddenly trespassed UMLC.No.17 resulting the knocking down of the tractor and three occupants of the tractor were killed on the spot and 2 were seriously injured. The response of all concerned including RPF was swift and sustaining.

6. Conduct of fire safety drive:

In view of the Deepavali festival, RPF/S.Rly organized special safety drive from 27.10.15 to 10.11.15 against carrying of fire crackers and other inflammable articles in trains and Railway stations. Various public friendly awareness campaigns were conducted/organized in co-ordination with GRP, Safety and Commercial Branch at important stations over S.Rly targeting the following:

- ❖ Pamphlets cautioning the passengers not to carry fire crackers/inflammable articles in trains/premises in tri-lingual were distributed to the passengers. Stickers containing the same text were pasted in trains and at conspicuous places of Railway stations and in trains.
- ❖ Utilization of NGOs (NCC/Scout, School Students etc.,) and members of the Trade Union for the awareness campaign so as to reach the message down the line.

Special teams consisting of RPF, GRP, Safety branch & Commercial were formed and launched in sections for random checking of passengers against carrying of fire crackers and other inflammable articles covering almost all important trains. During the drive period, 9 defaulters were apprehended for carrying fire crackers in trains and prosecuted under relevant provisions of Railways Act realizing a fine of Rs.5,250/- from them.

7. Action against smoking in trains/premises:

Regular drives are being organized by RPF/S.Rly against smoking in trains / premises and the defaulters are prosecuted u/s 167 RA. During the year 2015-2016, **8188** defaulters were apprehended and prosecuted realizing a fine of **Rs.8,28,200/-** respectively.

A special drive to prevent smoking in trains was also organized for 15 days from 25.12.15 to 08.01.16 in conjunction with Commercial and RPF. **327** defaulters were apprehended and prosecuted under section 167 RA realizing fine of **Rs.49,200/-** besides that **15** defaulters were dealt under EFT and fined Rs.3,000/- . **5100** awareness pamphlets were distributed to the passengers.

8. Awareness campaign against lighting of camphor sticks by Ayyappa devotees in trains / stations:

In view of lighting of camphor sticks by Ayyappa Devotees in worshipping "Irumudi" of Lord Ayyappa in Trains/Railway stations, an awareness campaign was conducted by all divisions in co-ordination with GRP and Safety branch highlighting the serious fire hazards which camphor lighting inside the coaches may cause. All important Mail/Express and Passenger trains bound for Kerala were checked by various teams and frequent announcement through mega phone were done at the halting stations enroute.

XI. DRIVE AGAINST UNAUTHORIZED ALARM CHAIN PULLING AFFECTING PUNCTUALITY OF TRAINS:

During the year 2015-16, **2,658** instances of Alarm Chain Pulling were reported. Of which, **979** instances were justified as due to commercial/ operational /mechanical / electrical reasons and other genuine reasons. In **1679** unauthorized instances, **1181** defaulters were nabbed and prosecuted u/s 141 RA, realizing a fine of Rs.7,11,710/- from them. The remaining **498** instances were reported in mid-section where no RPF/GRP available. However, ambush checks are conducted by RPF in section prone for ICC pulling, to contain the menace.

XII. LC GATE ACCIDENTS:

During the year 2015-16, **541** instances of **L.C. Gate accidents** involving road vehicles were reported over this Railway. In all the incidents, the vehicle drivers were apprehended by RPF, prosecuted u/s 154 & 160 RA and a sum of **Rs.6,04,900/-** was realized as fine. This apart **Rs.8,84,366/-** was also realized from the owners of the vehicles towards the cost of damage to the L.C. Gate components, etc.

XIII. ACTION AGAINST DEFAULTERS INDULGING IN TRAIN HOLD UPS DURING RAIL ROKO BY POLITICAL PARTIES, TRADE UNIONS, ETC:

RPF/Southern Railway is taking stern action against the persons indulging in train hold ups during Rail Roko by political parties, trade unions, etc., to maintain the punctuality of trains and the defaulters are prosecuted u/s 174 (a) of Railways Act duly obtaining complaints from Railway Depot officials. During the year 2015-16, 31 cases were registered u/s 174 (a) Railways Act against the defaulters.

XIV. ACTION AGAINST THE MENACE OF BEGGING IN TRAINS BY EUNUCHS:

Following the complaints against the menace of begging by eunuchs in trains and Railway premises, special drives were organized over this Railway to eradicate the nuisance created by the eunuchs to the travelling public in trains. During the year 2015-16, **1090** eunuchs who indulged in begging in trains were apprehended and prosecuted under relevant section of Railways Act and a fine of **Rs.2,46,900/-** was realized from them.

XV. ACTION AGAINST UNAUTHORIZED TRAVELLING IN COMPARTMENTS EARMARKED FOR DIFFERENTLY ABLED PERSONS:

Regular drives were organized against unauthorized travelling in compartments earmarked for differently abled persons. During the year 2015-16, **1867** defaulters were apprehended and prosecuted under relevant sections of RA realizing a fine of **Rs.4,21,770/-**

XVI Sports:-**ACHIEVEMENTS IN SPORTS 2015-16**

Inter Railway Tournament					
Sl. No.	Event/Team Manager	Venue	Date of conduct	Performance	AIPDM
1	Shooting	TC/KG/TPJ	23.05.14 to 24.05.14	Winner Gold-06 Silver-06 Bronze-04	—
2	Band	TC/KG/TPJ	04.06.14	—	—
3	Athletics	ICF	17.07.14 to 18.07.14	Winner Gold-07 Silver-03	—
4	Basketball	TVC	26.07.14 to 27.07.14	—	—
5	Kabaddi	MDU	07.08.14 to 08.08.14	—	—
6	Football	TPJ	17.08.14 to 18.08.14	Winner	Attended 63rd BN Mullick Memorial All Indian Football Championship 2014 at LLH/Kolkata on 15-09-14.
7	Hockey	MAS	Not Conducted	Winner	Attended 63rd AIPH Championship 2014 at Gurugind Sports College, Lucknow from 04.12.14 to 11.12.14.
8	Volley Ball	PGT	Conducted the trials for the selection of team	Winner	—
9	Photography & Videography	TC/KG/TPJ	Not Conducted	—	—
10	Boxing & Weight Lifting	TPJ	12.09.14	Winner	—
11	Computer Awareness	MAS	Conducted	—	—
12	Dog Squad	SA	21.11.14 @ ZTC/TPJ	—	—

XVII. WELFARE:**WELFARE:**

- a) Handicraft Centre with sufficient number of sewing machines and membership strength of 16 RPF spouse/wards is functioning at Perambur.
- b) Various welfare measures for RPF staff like blood donation camp, HIV awareness, Eye donation camp were organized by all divisions.
- c) Various seminars like Stress Management, attitudinal changes on good habit and drug abuse were organized to sensitize RPF Post.
- d) A seminar on superannuation benefits was also arranged for the benefits of RPF staff those are due for superannuation in this year.
169 wards of Security Branch staff who are pursuing professional degree courses are granted with scholarship of Rs.7500/-
- e) 04 wards of Security Branch staff and 01 staff of were granted financial assistance towards training for development of occupational skills/physically/medically challenged wards. Medical assistance from CSBF for 01 case and 08 cases from SBC has been considered and granted. Merit scholarship has been arranged for 76 wards of RPF/Ministerial of this branch from SBF.
- f) Compassionate ground appointment were arranged for 15 wards of RPF/RPSF staff.
- g) Alternative appointment for medically decategorised were arranged for 65 RPF staff.

RSKN:

S.No.	Type of payment	No.of cases	Amount Rs.
1.	Ex-gratia lumpsum grant	18	18,00,000/-
2.	Funeral assistance to the family of deceased employeeed	07	75,000/-
3.	Settlement of retirement	184	11,04,000/-

XVIII. TRAINING

RPF Training Centre/Trichy is the only Training Centre functioning for the security department and Southern Railway and Caters the need of iCF and SW.Rly. The normal capacity of the Training Centre is 300 trainees at any time of the day. The following strength of different ranks from Constable to IPF were trained during the year 2015-16 and various courses.

1. RPF/TC/KG/TPJ - 2372
2. JR/RPF Academy/LKO- 17

XIX. GRANT OF MONEY REWARD :

S.No.	Details	Amount Rs.
1.	Sanctioned by Rly. Board	27,500/-
2.	Sanctioned by GM/AGM/ADGM/S.Rly :	1,00,000/-
3.	Sanctioned by CSC/Addl.CSC/SC.HQ/SC to CSC & ASC	1,08,375/-
4.	Sanctioned by Sr.DSC/DSCs.	4,64,125/-
	Total	7,00,000/-

XX. sabotage:-

- | | | |
|---------|---|-----------|
| 2013-14 | - | Nil |
| 2014-15 | - | 18 cases. |
| 2015-16 | - | 07 cases |

XXI. Bomb threat:

During the year 2015-16, 15 anonymous bomb threat calls in trains/premises were received and promptly attended by RPF in co-ordination with GRP/Local Police and all the calls turned to be a hoax.

XXII. Special Bandobust to VVIPs/VIPs:

During the year 2015-16, on 30 occasions during the travel/visit of VVIPs/VIPs like Governors, Hon'ble Chief Minister, Union Ministers, MOSRs, Parliamentary Committee, etc., on the Railways, RPF/Southern Railway provided elaborate bandobust arrangements in co-ordination with GRP/Local Police.

XXIII. Meritorious Service by the Officers of RPF/Southern Railway:

- Ms. Aroma Singh Thakur, DIG-cum-Addl. CSC/SR has been bestowed with coveted Police Medal for her meritorious service on the occasion of Independence Day- 2015.

XXIV. Eviction:

During the year 2015 – 16, on 08 occasions RPF/S.Rly. rendered assistance to the Engineering branch in evicting of unauthorised shops erected at station premises, unauthorized occupation of railway land, unauthorized structures and encroachments etc., from the Railway land in co-ordination with Local Police/ GRP.

Conclusion:-

RPF/Southern Railway is striving hard to ensure that the passengers travel with full sense of security in this jurisdiction.



पैंसठ वर्ष का सार
SIXTY SIX YEARS
OF
SUMMARY

SOUTHERN RAILWAY

पैसठ वर्ष का सार

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 (' 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 (' 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
Coaching stock												
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
Electric Multiple Unit Coaches	72	72	72	96	96	96	96	96	96	96	96	96
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
EMU	..	..	..	..	..	..	..	..	..	..	..	..
MEMU	..	..	..	..	..	..	..	..	..	..	..	..
DEMU	..	..	..	..	..	..	..	..	..	..	..	..
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
EMU	..	..	..	..	..	..	..	..	..	..	..	..
MEMU	..	..	..	..	..	..	..	..	..	..	..	..
DEMU	..	..	..	..	..	..	..	..	..	..	..	..
Wagon kilometres	617	617	618	616	644	686	731	762	789	873	888	925
Volume of Traffic—												
Passenger Traffic—												
No. of passengers originating (in millions)	272	226	216	205	211	217	225	223	228	237	252	256
Passenger kilometres (in millions)	12,151	11,742	10,887	10,032	11,073	10,696	11,191	11,052	10,651	10,862	11,719	12,105
Passenger earnings (in crores of Rs.)	18.25	21.10	18.63	17.44	17.68	18.83	20.11	19.84	19.69	20.35	22.06	25.54
Average lead (in kilometres)	44.1	50.1	50.3	48.5	52.2	48.0	49.5	48.9	46.2	45.5	46.1	46.8
Average rate per passenger kilometres (in paise)	1.50	1.80	1.71	1.74	1.60	1.76	1.80	1.79	1.85	1.87	1.88	2.11
Goods Traffic—												
Tonnes originating (in millions)—												
Revenue earning Traffic	10.9	10.6	8.8	8.8	9.0	9.2	9.4	10.2	10.3	10.7	11.8	12.1
Total traffic	11.9	11.3	10.9	11.1	11.4	12.4	13.1	14.6	15.0	15.8	16.6	16.1
Net tonne kilometres (in millions)—												
Revenue Earning Traffic	4,840	4,676	4,884	5,003	5,370	5,966	6,204	6,636	6,929	7,386	7,755	8,411
Total Traffic	5,313	5,243	5,433	5,530	5,879	6,519	6,956	7,509	7,715	8,309	8,733	9,379
Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)	20.7	21.2	19.0	19.6	20.6	23.5	24.9	27.1	29.1	31.9	34.0	35.8
Average lead (in kilometres) (Revenue)	343.6	363.7	384.5	389.0	396.1	405.1	396.5	385.5	387.5	391.0	400.5	427.1
Average rate per tonne kilometre (in paise)	4.27	4.54	3.89	3.92	3.84	3.94	4.02	4.08	4.19	4.32	4.38	4.26
Quantity of fuel consumed by locomotives—												
Coal (in thousand tonnes)	1,378	1,436	1,461	1,461	1,562	1,664	1,839	1,964	2,001	2,127	2,187	2,348
Diesel oil (in kilometres)	..	..	..	..	..	..	..	403	689	822	888	925
Stores purchases (in crores of Rs.)—												
Indigenous	9.22	7.89	8.79	7.27	8.94	9.29	13.78	20.88	12.17	11.64	11.04	21.99
Total	12.05	11.93	13.13	11.13	16.57	13.35	23.46	29.17	23.22	18.50	20.56	23.75
Operating revenue and expenditure (in crores of Rs.)—												
Revenue—Gross receipts	44.25	46.82	N. A.	N. A.	43.25	47.93	49.98	52.53	55.03	58.68	62.82	68.57
Working expenses including depreciation etc. and miscellaneous expenses.	34.54	35.03	N. A.	N. A.	39.19	42.86	45.43	52.23	51.31	53.58	56.43	60.48
Net revenue receipts	9.71	11.79	N. A.	N. A.	4.06	5.07	4.55	0.30	3.72	5.10	6.39	8.09
Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.	8.43	10.20	N. A.	N. A.	3.25	3.82	3.13	0.19	2.15	2.81	3.37	3.83
Operating ratio (per cent)	78.65	74.35	N. A.	N. A.	80.53	90.15	88.20	96.34	92.77	89.05	88.77	85.47
Dividend to General Revenues	4.54	4.57	N. A.	N. A.	4.83	4.99	5.04	5.97	6.65	7.00	7.31	8.29
Payments to States in lieu of tax on Passenger fares.	..	..	..	..	..	..	..	..	..	..	..	2.12
Surplus (+)/Deficit (—)	(+) 5.17	(+) 7.12	N. A.	N. A.	(—) 0.77	(+) 0.08	(—) 0.49	(—) 5.67	(—) 2.93	(—) 1.99	(—) 0.92	(—) 2.32

SIXTY SIX YEARS OF SUMMARY

1962-63	1963-64	1964-65	1965-66	1966-67	1967-68	1968-69	1969-70	1970-71	1971-72	1972-73	Details
235.60	271.25	312.85	348.57	286.44	295.07	299.50	310.45	322.91	338.23	363.18	Capital-at-charge (Rs. in crores)
296.34	342.11	391.26	433.99	349.98	362.58	370.93	387.40	404.11	424.01	452.90	Total Investment (Rs. in crores)
36.08	36.08	163.13	163.13	163.13	166.44	166.44	166.44	166.44	166.44	166.44	Route Kilometres Electrified
9,985.58	10,067.08	10,153.14	10,200.98	7,216.45	7,283.85	7,444.98	7,444.98	7,444.98	7,445.62	7,452.32	Total
65.27	65.27	217.35	217.35	217.35	220.66	220.66	220.66	220.66	220.66	220.66	Running track Kilometres Electrified
10,662.29	10,922.04	11,081.72	11,209.34	7,761.82	7,875.60	8,090.39	8,090.39	8,118.63	8,119.27	8,218.86	Total
1,346	1,362	1,368	1,373	1,022	1,023	1,031	1,029	1,025	1,021	1,016	Number of Stations.
1,783	1,827	1,780	1,786	1,228	1,218	1,193	1,143	1,128	1,105	999	Rolling Stock—
..	26	69	98	114	128	161	210	223	244	242	Steam
4	4	4	22	20	20	20	20	20	20	20	Diesel
..	..	..	..	..	..	..	..	..	..	..	Electric
3,865	3,801	3,984	4,111	4,187	3,526	3,596	3,600	3,608	3,604	3,753	Passenger carriages
96	96	96	96	96	152	172	172	172	174	174	Electric Multiple Unit Coaches.
30	30	30	27	27	15	15	15	18	18	18	Rail cars
1,424	1,398	1,391	1,442	1,492	1,282	1,249	1,213	1,123	1,075	1,065	Other coaching vehicles
38,331	40,750	41,987	44,795	47,083	47,489	35,141	34,591	34,197	33,916	34,120	Wagons
168.6	173.6	176.7	177.8	135.2	134.5	133.5	132.0	133.0	132.0	134.0	Staff—
32.92	34.99	39.50	43.70	41.60	39.60	42.80	45.40	49.36	51.36	52.58	No. of employees (in 1000s)
1,959	2,020	2,243	2,468	2,715	2,958	3,214	3,440	3,719	3,898	3,951	Cost of staff (in crores of Rs.)
..	..	..	..	..	..	..	..	..	..	..	Average cost per employee (in Rs.)
..	..	..	..	..	..	..	..	..	..	..	For the year—
23.82	25.78	24.38	25.52	20.66	16.35	17.51	18.02	17.81	18.80	16.89	Transportation Out-put—Train-kilometres excluding Departmental (in millions)—
654	663	679	743	673	574	563	605	635	647	627	Passenger and proportion of mixed
..	..	..	..	..	..	..	..	..	..	..	EMU
..	..	..	..	..	..	..	..	..	..	..	MEMU
..	..	..	..	..	..	..	..	..	..	..	DEMU
934	1,006	948	1,053	870	692	774	816	828	865	804	Goods and proportion of mixed
251	260	269	283	276	237	207	222	237	257	258	Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—
11,848	12,239	12,578	13,461	13,158	11,185	9,476	9,701	10,417	10,980	11,259	Vehicle kilometres
26.87	28.93	30.27	34.04	31.5	29.1	27.2	28.2	30.6	33.1	34.8	EMU
46.9	46.8	46.3	47.2	47.4	46.8	45.5	43.5	43.6	42.1	43.3	MEMU
2.26	2.36	2.41	2.53	2.39	2.60	2.87	2.91	2.94	3.02	3.09	DEMU
..	..	..	..	..	..	..	..	..	..	..	Wagon kilometres
..	..	..	..	..	..	..	..	..	..	..	Volume of Traffic—
..	..	..	..	..	..	..	..	..	..	..	Passenger Traffic—
..	..	..	..	..	..	..	..	..	..	..	No. of passengers originating (in millions)
..	..	..	..	..	..	..	..	..	..	..	Passenger kilometres (in millions)
..	..	..	..	..	..	..	..	..	..	..	Passenger earnings (in crores of Rs.)
..	..	..	..	..	..	..	..	..	..	..	Average lead (in kilometres)
..	..	..	..	..	..	..	..	..	..	..	Average rate per passenger kilometres (in paise)
12.8	13.8	14.4	16.0	14.6	12.3	12.1	11.8	12.2	13.0	12.5	Goods Traffic—
17.1	17.3	17.5	18.5	16.4	13.5	13.2	13.2	13.1	14.3	13.6	Tonnes originating (in millions)—
8,823	9,504	9,282	10,475	9,437	7,234	7,595	7,707	8,085	8,675	8,486	Revenue earning Traffic
9,758	10,417	10,155	11,326	10,088	7,820	8,294	8,250	8,797	9,428	9,179	Total Traffic
38.5	43.9	45.0	51.2	48.0	38.7	41.8	42.7	47.4	52.7	52.0	Net tonne kilometres (in millions)—
422.0	429.8	431.0	447.0	442.0	419.0	430.0	422.0	422.0	429.0	483.0	Revenue earning traffic
4.37	4.62	4.85	4.89	5.08	5.34	5.51	5.54	5.87	6.08	6.15	Total traffic
2,476	2,668	2,563	2,508	2,027	1,600	1,603	1,629	1,574	1,584	1,388	Earnings from goods carried excluding and wharage demurrage charges (in crores of Rs.)
723	3,251	21,544	39,923	54,279	65,794	79,050	94,658	111,146	120,766	130,482	Average lead (in kilometres) (Revenue)
24.25	37.02	42.20	39.29	2.70	20.23	20.65	32.07	35.43	29.96	37.04	Average rate per tonne kilometre (in paise)
27.55	44.04	49.84	43.03	6.47	24.38	27.31	33.59	40.24	32.57	45.38	Quantity of fuel consumed by locomotives—
73.39	81.98	84.06	94.89	73.02	76.62	78.96	81.44	90.12	100.23	100.30	Coal (in thousand tonnes)
66.16	71.38	77.89	84.42	69.65	75.90	79.83	84.20	90.23	95.97	99.05	Diesel oil (in kilometres)
7.23	10.60	6.17	10.47	3.37	0.72	(-) 0.87	(-) 2.76	(-) 0.11	4.26	1.25	Stores purchases (in crores of Rs.)—
3.06	3.76	2.00	3.00	1.17	0.24	(-) 0.29	(-) 0.88	(-) 0.04	1.26	0.34	Indigenous
86.62	82.94	90.00	86.96	92.15	98.70	99.69	101.54	98.44	94.75	97.89	Total
9.13	11.32	13.22	15.02	14.54	15.16	15.11	15.61	16.44	15.91	16.93	Operating revenue and expenditure (in crores of Rs.)—
1.99	1.95	1.90	1.94	..	..	..	..	..	..	..	Revenue—Gross receipts
(-) 3.89	(-) 2.67	(-) 8.95	(-) 6.49	(-) 11.17	(-) 14.44	(-) 15.98	(-) 18.37	(-) 16.55	(-) 11.65	(-) 15.68	Working expenses including depreciation etc. and miscellaneous expenses.
..	..	..	..	..	..	..	..	..	..	..	Net revenue receipts
..	..	..	..	..	..	..	..	..	..	..	Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.
..	..	..	..	..	..	..	..	..	..	..	Operating ratio (percent)
..	..	..	..	..	..	..	..	..	..	..	Dividend to General Revenues
..	..	..	..	..	..	..	..	..	..	..	Payments to States in lieu of tax on Passenger fares.
..	..	..	..	..	..	..	..	..	..	..	Surplus (+)/Deficit (-)

SOUTHERN RAILWAY

पैंसठ वर्ष का सार

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	8,488.76	8,488.76	6,829.24	6,702.53	6,702.53	6,700.80	6,710.36	6,722.30	6,728.66	6,711.76	6,756.36
Running track Kilometres Electrified	220.66	220.66	220.66	220.66	220.66	220.66	406.08	567.08	572.56	672.82	672.82	960.29	1,102.77	1,137.65	1,138.65
Total ..	8,262.59	8,276.74	8,297.96	8,443.62	7,375.25	7,387.73	7,537.76	7,537.76	7,629.45	7,660.75	7,725.09	7,756.18	7,772.47	7,790.45	7,836.05
Number of Stations	1,017	1,016	1,000	1,002	883	881	887	884	882	868	876	868	861	862	852
Rolling Stock—															
Locomotives															
Steam	943	934	911	916	799	792	761	702	592	382	370	364	358	336	229
Diesel	244	267	278	278	191	205	213	228	266	280	286	308	316	317	325
Electric	20	20	20	20	20	20	20	20	20	20	20	20	27	41	51
Coaching stock															
Passenger carriages	3,777	3,856	3,820	3,727	3,899	3,880	3,879	3,834	3,727	3,669	3,756	3,766	3,811	3,812	3,793
Electric Multiple Unit	171	171	171	171	171	192	272	348	358	354	353	353	371	371	371
Coaches															
Rail cars	18	18	18	13	11	11	14	11	7	7	7	7	10	10	10
Other coaching vehicles	1,066	1,049	1,029	988	943	928	902	893	845	824	817	809	793	768	746
Wagons	34,173	33,863	35,104	30,029	31,723	31,062	31,095	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
EMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
MEMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
DEMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Goods and proportion of mixed	16.28	16.24	17.40	18.40	16.15	13.03	12.48	..	13.49	13.00	13.48	14.12	144.99	15.65	15.58
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—															
Vehicle kilometres	579	529	642	697	679	631	642	661	689	715	743	763	769	800	856
EMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
MEMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
DEMU	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Wagon kilometres	805	802	865	913	808	655	646	628	747	709	766	817	817	945	962
Volume of Traffic—															
Passenger Traffic—															
No. of passengers originating (in millions)	253	218	267	298	310	331	302	333	346	344	276	279	283	296	307
Passenger kilometres (in millions)	11,415	10,700	12,217	14,420	15,448	16,278	16,135	18,128	19,294	20,344	18,590	19,898	20,821	20,952	21,904
Passenger earnings (in crores of Rs.)	38.4	41.5	49.2	55.4	60.3	62.2	67.2	78.1	96.5	116.2	125.7	141.0	161.61	180.81	194.89
Average lead (in kilometres)	44.7	48.29	48.80	47.70	49.20	48.5	52.5	53.6	54.9	58.2	65.8	69.7	71.8	71.8	69.1
Average rate per passenger kilometres (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	9,643	10,237	9,101	7,996	7,761	7,686	9,575	9,093	10,104	11,041	11,829	11,724	11,638
Total traffic	9,324	9,664	10,323	10,855	9,647	8,386	8,190	8,067	9,846	9,374	10,367	11,327	12,129	11,944	11,932
Earnings from goods carried excluding 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)	433.0	434.0	437.0	428.0	374.0	350.0	342.0	333.0	358.0	376.0	406	390	377	362	341
Average rate per tonne kilometre (in paise)	6.31	7.47	8.52	8.87	8.70	8.64	9.76	10.53	13.58	16.54	18.60	18.90	20.29	21.95	25.05
Quantity of fuel consumed by locomotives—															
Coal (in thousand tonnes)	1,128	1,023	1,214	1,200	1,120	934	892	868	635	474	446	426	390	340	262
Diesel oil (in kilolitres)	131,524	133,660	140,010	148,840	125,039	97,747	102,627	106,091	117,688	127,035	129,864	138,033	144,817	144,996	153,677
Stores purchased (in crores of Rs.)—															
Indigenous	40.0	53.75	70.45	69.15	52.40	49.78	82.14	118.33	136.01	147.51	148.38	162.27	179.97	204.46	230.93
Total	44.9	62.60	76.11	74.63	53.40	51.28	86.51	124.37	145.98	158.88	161.42	173.23	199.17	222.61	247.77
Operating revenue and expenditure (in crores of Rs.)—															
Revenue—Gross receipts	106.67	122.67	151.34	165.55	149.15	155.44	172.11	192.03	263.34	310.36	354.95	394.14	464.97	506.18	554.09
Working expenses including depreciation etc. and miscellaneous expenses	109.58	131.39	160.66	180.49	168.26	176.70	207.81	236.57	305.13	368.16	437.13	490.14	556.06	646.84	716.16
Net revenue receipts	(-) 2.91	(-) 8.72	(-) 9.32	(-) 14.94	(-) 19.11	(-) 21.26	(-) 35.70	(-) 44.54	(-) 41.79	(-) 58.22	(-) 83.85	(-) 96.00	(-) 91.09	(-) 123.69	(-) 149.22
Percentage of net revenue receipts to the capital-at-charge and investment from capital fund	(-) 0.56	(-) 2.0	(-) 2.0	(-) 3.2	(-) 3.7	(-) 4.13	(-) 6.53	(-) 7.44	(-) 6.84	(-) 8.70	(-) 11.42	(-) 12.40	(-) 11.06	(-) 13.42	(-) 14.99
Operating ratio (per cent)	102.05	106.04	105.7	109.70	112.8	113.7	120.74	123.19	115.87	118.62	123.15	124.36	119.59	130.08	129.50
Dividend to General Revenues	17.99	20.20	21.26	22.34	22.60	22.91	22.25	33.57	36.16	41.89	42.42	46.35	50.90	55.67	61.42
Payments to States in lieu of tax on Passenger fares	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Surplus (+) Deficit (-)	(-) 20.90	(-) 28.92	(-) 30.58	(-) 37.28	(-) 41.71	(-) 44.86	(-) 58.51	(-) 78.11	(-) 71.15	(-) 90.39	(-) 116.17	(-) 132.81	(-) 135.12	(-) 179.08	(-) 210.84

SIXTY FIVE YEARS OF SUMMARY

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	649.80	775.56	959.09	959.09	972.56	1,001.7	1,115.80	1,227.74	1,259.29	1,316.04	1,352.05	1,352.05	1,483.91	1,558.56	Route Kilometres Electrified
6,757.76	6,924.04	6,924.04	6,928.26	7,009.00	7,020.55	7,050.97	7,049.47	7,040.49	7,009.51	7,145.88	7,144.03	7,164.83	7,197.13	7,192.88	Total
1,149.01	1,273.77	1,509.34	1,797.23	1,797.23	1,827.42	1,854.62	2,049.76	2,257.61	2,339.12	2,468.35	2,538.23	2,538.23	2,671.63	2,748.92	Running track Kilometres Electrified
7,849.89	8,049.4	8,059.52	8,062.06	8,142.80	8,171.53	8,211.20	8,212.99	8,223.87	8,244.86	8,427.7	8,494.40	8,593.64	8,658.94	8,689.71	Total
845	845	832	831	821	813	802	786	774	772	769 *	757	757	754	752	Number of stations.
171	168	138	117	75	41	10	10	10	10	10	10	10	10	10	Rolling Stock—
346	364	374	388	373	398	421	434	436	487	516	512	527	559	538	Steam
73	102	107	112	127	145	149	150	155	171	184	215	223	212	224	Diesel
3,919	3,958	4,068	4,233	4,452	4,574	4,559	4,632	4,863	5,012	4,869	4,962	5,152	5,264	5,495	Electric
*371	378	389	392	415	418	449	477	512	537	592	595	603	627	603	Locomotives
4	4	4	4	4	4	4	4	2	..	2 *	2	2	2	2	Passenger carriages
696	641	610	573	535	523	505	519	531	544	517 *	* 281	271	273	270	Electric Multiple Unit coaches.
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	Rail cars
144.2	146.6	147.0	150.0	149.4	145.8	142.937	140.366	139.300	136.654	136.585	136.463	133.587	130.579	**126.992	Other coaching vehicles
463.5	513.5	580.1	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	Coaching stock
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	Wagons
															Staff—
															No. of employees (in 1000s)
															Cost of staff (in crores of Rs.)
															Average cost per employee (in Rs.)
															For the year—
															Transportation Output—Train kilometres excluding deport. ment (in millions)—
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	Passenger and proportion of mixed EMU
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	MEMU
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	DEMU
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		Goods and proportion of mixed Vehicle and wagon K.Ms. (excluding opt. ment and brake-ware) (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
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	EMU
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	MEMU
1,007	1,018	1,107	1,103	1,146	1,090	1,044	1,077	1,185	1,190	1,132 *	1,250	1,326	1,280	1,289	DEMU
															Wagon kilometres
															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)
															Goods Traffic—
16.8	17.3	18.6	19.6	20.7	19.0	19.27	21.02	23.41	27.53	29.34	29.51	30.09	24.88	24.08	Tonnes originating (in millions)—
18.4	18.8	20.0	20.98	21.97	20.1	20.39	22.20	24.55	29.00	30.95	30.94	32.11	27.27	24.86	Revenue earning traffic
11,906	11,998	13,200	13,201	13,622	129.91	12,931	13,864	15,018	15,251	14,629	15,788	16,623	15,506	15,924	Total traffic
12,200	12,282	13,467	13,467	13,857	131.58	13,091	14,026	15,141	15,407	14,763	15,921	16,791	15,725	16,118	Net tonne K. M. (in millions)—
316.50	374.12	439.32	472.16	524.31	602.65	670.69	779.38	884.33	1,065.44	1,068.34	1,159.72	1,287.76	1,210.66	1,256.59	Revenue earning traffic
346	351	342	353	350	349	331	330	304	303	311	311	312	331	331	Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)
26.58	31.18	33.28	35.77	38.49	46.39	51.87	56.22	58.89	69.86	73.03	73.46	77.47	78.07	78.91	Average lead (in kilometres)
212	205	177	168	128	40	15.46	2.34	2.19	2.10	2.18	2.16	2.59	1.90	1.74	Average rate per tonne kilometre (in paise)
162,219	171,611	179,309	177,546	179,265	161,865	170,530 *	178,816 *	178,665 *	181,125	1,97,868	2,17,566	2,19,143	2,26,870	2,32,602	Quantity of fuel consumed by locomotives—
307.55	347.46	427.42	457.63	587.05	480.06	456.31	498.43	696.56	1,024.92	920.15	766.61	992.02	*934.29	1,246.79	Coal (in thousand tonnes)
324.63	391.39	454.57	476.18	617.49	505.13	493.35	507.23	719.08	1,040.55	972.00	*779.59	1,019.24	*958.58	1,260.63	Diesel oil (in kilolitres)
632.70	710.24	822.58	918.02	1,007.91	1,193.62	1,327.35	1,546.09	1,699.87	2,022.29	2,104.80	2,336.43	2,603.34	2,607.15	2,854.45	Stores purchased (in crores of Rs.)—
766.79	879.77	976.21	1,081.45	1,220.57	1,313.76	1,447.90	1,627.72	1,821.09	2,241.30	2,423.34	*2,679.55	3,140.57	3,251.10	3,398.97	Indigenous
(-118.22)	(-150.00)	(-125.60)	(-127.78)	(-169.05)	(-66.31)	(-63.93)	(-31.24)	(-70.47)	(-161.45)	(-243.00)	(-249.87)	(-437.06)	(-630.86)	(-485.51)	Total
(-) 10.99	(-) 12.54	(-) 9.51	(-) 8.98	(-) 9.41	(-) 3.27	(-) 2.81	(-) 1.20	(-) 2.39	(-) 4.54	(-) 5.99	(-) 5.51	(-) 8.81	(-) 11.77	(-) 8.47	Operating revenue and expenditure (in crores of Rs.)—
122.04	124.02	118.63	117.81	117.96	110.60	109.47	105.62	106.98	111.81	114.29	114.74	120.80	124.98	119.15	Revenue—Gross receipts
66.85	71.40	84.50	93.69	113.15	139.66	*145.15	146.31	143.62	142.90	185.71	217.23	248.25	259.83	289.15	working expenses including depreciation etc. and miscellaneous expenses.
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	Net revenue receipts
(-) 185.07	(-) 221.41	210.11	(-) 221.17	(-) 282.20	(-) 205.97	(-) 208.08	(-) 177.55	(-) 214.09	(-) 304.39	(-) 428.71	(-) 467.10	(-) 685.31	(-) 880.68	(-) 774.66	Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.
															Operating ratio (per cent)
															Dividend to General Revenue
															Payments to States in lieu of tax on Passenger fares.
															Surplus (+)/Deficit (-)

* Revised.

497804/2020/O/oDGM/G/SR

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SOUTHERN RAILWAY

पैंसठ वर्ष का सार

Details	2003-04	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	
Assets—(As on 31st March)														
Capital-at-charge (Rs. in crores)	3,532.81	3,715.46	4,056.06	4,154.34	4,333.30	4,647.55	5,656.53	6,807.94	8,004.45	9,158.53	10,425.08	12,120.91	13,880.76	
Total Investment (Rs. in crores)	6,854.27	7,516.98	8,433.90	9,564.02	11,069.18	12,985.77	14,871.47	16,846.30	18,519.30	20,413.50	22,413.99	25,338.31	29,435.40	
Route Kilometres Electrified	1,501.88	1,477.02	1,729.23	1,600.22	1,722.90	1,816.36	1,975.31	2,197.90	2,460.15	2,470.85	2,557.02	2,557.05	2,745.40	
Total ..	5,234.48	5,209.62	5,209.62	5,159.85	5,169.42	5,145.61	5,098.07	5,102.12	4,993.90	5,078.71	5,078.71	5,078.74	5,074.45	
Running track Kilometres Electrified	2,578.01	2,595.20	2,952.73	2,823.72	2,957.41	3,064.91	3,332.08	3,580.26	3,875.86	3,917.22	4,098.42	4,204.04	4,573.89	
Total ..	6,628.99	6,678.34	6,717.96	6,686.96	6,707.54	6,718.68	6,759.53	6,789.17	6,714.30	6,835.10	6,843.96	6,949.58	7,003.39	
Number of Stations	601	599	597	536	545	552*	566	*597	590	598	597	608	614	
Rolling Stock—														
Locomotives														
Steam	10	10	10	10	10	10	10	11	10	11	11	8	8	
Diesel	421	421	426	416	393	373	393	384	404	384	416	399	397	
Electric	243	223	241	265	279	290	306	333	371	384	421	435	450	
Coaching stock														
Passenger carriages	4,283	4,518	4,699	4,897	5,507*	5,562	5,656	4,964	5,182	5,492	5,815	6,065	6,268	
Electric Multiple Unit	607	704	618	676	669	677	614	714	719	739	767	811	822	
Coaches														
Rail cars	2	2	2	0	0	0	0	0	0	0	0	0	0	
Other coaching vehicles	206	387	464	499	282*	261	385	454	321	341	341	364	357	
Wagons	12,405	11,813	11,530	11,064	11,224*	10,653	10,548	10,258	10,078	9,957	9,856	9,734	9,626	
Staff—														
No. of employees (in 1000s)	106.844	*106.258	*104.865	105.177	104.680	102.472	99.329	95,741	94,492	93,805	92,758	91,810	94,085	
Cost of staff (in crores of Rs.)	1,835.52	2,055.00	2,147.91	*2,250.82	2,415.74	4,374.27	5,283.43*	*4,647.59	4,993.43	5,592.94	6,214.11	6,871.49	7,475.75	
Average cost per employee (in Rs.)	1,71,7081	1,93,645	2,04,896	*2,14,787	2,30,624	4,30,712	5,00,882*	*4,85,434	5,28,450	5,96,231	6,69,928	7,48,447	7,94,574	
For the year—														
Transportation Out-put—Train-kilometres excluding Departmental (in millions)—														
Passenger and proportion of mixed	46.99	46.28	47.22	38.42	38.90	39.79	41.64	44.17	45.96	47.51	50.44	52.74	52.52	
EMU	..	..	..	..	..	..	..	8.50	8.68	8.79	8.74	8.79	9.18	
MEMU	..	..	..	..	..	..	..	1.82	1.98	2.36	2.64	2.62	2.69	
DEMU	..	..	..	..	..	..	..	0.61	0.56	0.73	0.73	0.75	1.33	
Goods and proportion of mixed	11.71	11.58	11.93	12.23	12.25	12.69	11.97	11.53	11.84	10.79	10.78	11.29	10.11	
Vehicle and wagon kilometres (excluding departmental and brake-vans) (in millions)—														
Vehicle kilometres	1,208	1,225	1,280	1,253	1,345	1,404	1,483	1,590	1,690	1,771	1,880	1,963	1,995	
EMU	..	..	..	..	..	..	..	79.30	81.43	82.69	84.67	86.35	90.71	
MEMU	..	..	..	..	..	..	..	15.67	17.03	20.08	22.39	22.85	23.36	
DEMU	..	..	..	..	..	..	..	4.52	3.70	5.18	4.88	5.44	10.53	
Wagon kilometres	1,134	1,128	1,159	1,226	1,285	566	528	520	542	500	508	531	483	
Volume of Traffic—														
Passenger Traffic—														
No. of passengers originating (in millions)	418	460	496	565	621	687	690	734	801	831	831	807	798	
Passenger kilometres (in millions)	*38,970	43,069	46,609	55,092	57,327	68,391	70,216	74,664	82,512	84,062	82,481	83,730	85,396	
Passenger earnings (in crores of Rs.)	1,58.66	1,238.82	1,332.56	1,510.77	1,805.86	2,094.09	2,154.61	2,317.69	2,565.97	2,823.61	3,290.64	3,719.99	3,988.67	
Average lead (in kilometres)	88.58	87.61	89.17	93.97	87.89	93.89	95.15	94.70	95.93	96.29	96.21	95.68	99.92	
Average rate per passenger kilometre (in paise)	29.73	28.76	28.59	27.42	31.50	30.18	30.69	31.04	31.10	33.59	39.90	44.43	45.19	
Goods Traffic—														
Tonnes originating (in millions)—														
Revenue earning Traffic	23.58	22.71	26.94	*31.52	30.03*	33.75	35.73	35.11	39.40	37.97	42.40	39.14	33.48	
Total Traffic	24.24	23.19	27.27	*31.31	30.26*	34.32	36.20	35.50	39.73	38.14	42.64	39.37	33.59	
Net tonne kilometres (in millions)—														
Revenue earning traffic	13,341	13,931	14,736	14,968	15,116	16,234	16,644	15,748	17,354	17,465	18,006	18,406	15,583	
Total traffic	13,596	14,058	14,825	15,008	15,140	16,272	16,673	15,775	17,380	17,479	18,032	18,429	15,583	
Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)	1,036.42	1,083.04	1,288.45	1,471.88	1,617.61	1,840.80	1,818.03	1,869.51	2,140.29	2,431.09	2,696.99	2,694.94	2,756.03	
Average lead (in kilometres) (Revenue)	283	280	263	234	225	236	362	*254	270	264	251	262	269	
Average rate per tonne kilometre (in paise)	77.69	77.74	87.44	98.34	107.01	267.90	109.23	118.72	123.33	139.20	149.78	161.09	176.86	
Quantity of fuel consumed by locomotives—														
Coal (in thousand tonnes)	1.86	1.97	1.85	1.74	1.90	1.46	1.51	0.58	0.45	0.10	0.02	0.03	0.01	
Diesel oil (in kilolitres)	1,80,078	1,79,191	1,85,225	1,86,260	1,82,379	1,805,77	1,789,53	1,810,60	1,892,51	1,852,46	1,881,29	1,940,18	1,948,69	
Stores purchased (in crores of Rs.)—														
Indigenous	974.15	1,260.84	1,638.44	1,790.10	1,901.84	3,003.37	2,872.53*	2,487.86	2,522.92	2,565.62	4,075.39	2,910.81	2,022.89	
Total	1,015.49	1,283.20	1,699.65	1,800.81	2,308.19	3,050.84	2,890.88	2,468.21	2,535.74	2,610.11	4,225.49	3,434.22	2,494.51	
Operating revenue and expenditure (in crores of Rs.)—														
Revenue—Gross receipts	2,419.39	2,579.34	2,913.06	3,330.81	3,772.04*	4,324.05	4,456.90	4,790.27	5,608.08	6,028.75	6,845.55	7,592.34	7,605.93	
Working expenses including depreciation etc. and miscellaneous expenses	2,879.45	3,123.99	3,334.34	3,522.94	3,968.17*	5,451.02	6,139.53	6,467.65	6,896.68	7,827.83	8,977.63	9,799.98	10,214.82	
Net revenue receipts	(-) 400.25	(-) 501.80	(-) 551.27	(-) 244.85	(-) 191.13	(-) 1,126.97	(-) 1,689.53*	(-) 1,670.60	(-) 1,297.62	(-) 1,808.10	(-) 2,149.09	(-) 2,201.99	(-) 2,516.00	
Percentage of net revenue receipts to the capital-at-charge and investment from capital fund	(-) 8.97	(-) 10.80	(-) 11.06	(-) 4.82	(-) 3.67	(-) 24.25*	(-) 19.05*	-16.30	11.22	-14.21	-15.36	-13.68	-14.13	
Operating ratio (per cent)	118.55	120.79	114.46	105.85	105.07	126.06	137.47	135.55	122.58	130.59	132.18	128.98	134.89	
Dividend to General Revenues	248.13	231.17	249.47	264.30	294.87	311.54	357.86	321.32	369.12	342.90	488.69	562.34	519.65	
Payments to States in lieu of tax on Passenger fares														
Surplus (+)/Deficit (-)	(-) 648.38	(-) 732.97	(-) 800.74	(-) 509.15	(-) 491.20	(-) 1,447.62	(-) 2,047.39	(-) 1,991.92	(-) 1,666.74	(-) 2,151.00	(-) 2,508.87	(-) 2,590.62	(-) 2,952.50	

* Revised

No. of Staff
(Figures in Thousands)As on March 2016
Open line : 92.59
Construction : 1.50
Total : 94.09

SIXTY SIX YEARS OF SUMMARY—concl'd.

													Details
													Assets—(As on 31st March)
													Capital-at-charge (Rs. in crores)
													Total investment (Rs. in crores)
													Route Kilometres Electrified
													Total
													Running track Kilometres Electrified
													Total
													Number of stations.
													Rolling Stock—
													Steam ..
													Diesel ..
													Electric ..
													Passenger carriages
													Electric Multiple Unit coaches.
													Rail cars ..
													Other coaching vehicles
													Wagons
													Staff—
													No. of employees (in 1000s)
													Cost of staff (in crores of Rs.)
													Average cost per employee (in Rs.)
													For the year—
													Transportation Output—Train kilometres excluding deport. mental (in millions)—
													Passenger and proportion of mixed EMU
													MEMU
													DEMU
													Goods and proportion of mixed Vehicle and wagon K.Ms. (excluding opt. mental and brake-vans) (in millions)—
													Vehicle kilometres
													EMU
													MEMU
													DEMU
													Wagon kilometres
													Volume of Traffic—
													Passenger Traffic—
													No. of passengers originating (in millions)
													Passenger kilometres (in millions)
													Passenger earnings (in crores of Rs.)
													Average lead (in kilometres)
													Average rate per passenger. K.M. (in paise)
													Goods Traffic—
													Tonnes originating (in millions)—
													Revenue earning traffic
													Total traffic
													Net tonne K. M. (in millions)—
													Revenue earning traffic
													Total traffic
													Earnings from goods carried excluding wharfage and demurrage charges (in crores of Rs.)
													Average lead (in kilometres)
													Average rate per tonne kilometre (in paise)
													Quantity of fuel consumed by locomotives—
													Coal (in thousand tonnes)
													Diesel oil (in kilolitres)
													Stores purchased (in crores of Rs.)—
													Indigenous
													Total
													Operating revenue and expenditures (in crores of Rs.)—
													Revenue—Gross receipts
													working expenses including depreciation etc. and miscellaneous expenses.
													Net revenue receipts
													Percentage of net revenue receipts to the capital-at-charge and investment from capital fund.
													Operating ratio (per cent)
													Dividend to General Revenues
													Payments to States in lieu of tax on Passenger fares.
													Surplus (+) Deficit (—)

दक्षिण रेलवे/SOUTHERN RAILWAY

सघनता विवरणिका 2015-2016 (बड़ी लाइन)/DENSITY STATEMENT FOR THE YEAR 2015-2016—BROAD GAUGE

Serial No.	Name of the Section	Route No. of the Section	Whether the Section is Single/Double/Trip	Whether the Section is Electrified	Average Daily No. of Coaching trains run on the Section		Average total Daily No. of Vehicles (in terms of 4-wheelers) run on the Section		Average Daily No. of Goods trains run on the Section		Average Daily total No. of wagons (in terms of 4-wheelers) run on the Section		Net tonnes Kms. per route 107 per day		Total (14 + 15)	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 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.
	CHENNAI DIVISION	673																					
1	MAS-GDR	136	D	E	70.536	70.536	1362.292	1362.292	6.093	5.542	293.941	265.538	14646	7552	22198	23146	15146	47555	47555	70701	62701	2404	1363
2	MAS-AJJ	69	D	E	183.633	183.633	2836.525	2836.525	12.855	12.693	681.942	675.853	15598	34751	50349	34851	53722	107124	107124	141975	160846	1213	2738
3	AJJ-JTJ	144	D	E	41.711	41.711	1634.541	1634.541	19.653	19.585	991.828	985.183	16582	52714	69297	44487	80534	47570	47570	92058	128104	844	2692
4	AJJ-RU	72	D	E	17.701	17.701	484.946	484.946	14.840	14.404	722.687	686.220	37861	17089	54951	58565	36833	14811	14811	73376	51644	2551	1186
5	MSB-CGL (Incl. in MSB-VLCY)	59	S	E	37.704	37.703	452.443	452.443	0.000	0.000	0.000	0.000	0	0	0	0	0	21701	21700	21701	21700	0	0
6	MSB-VLCY EMU	20	D	E	65.404	65.404	476.466	476.466	0.000	0.000	0.000	0.000	0	0	0	0	0	22853	22853	22853	22853	0	0
7	VM-KOK	169	S	E	65.360	65.360	1457.599	1457.599	2.046	2.564	92.309	119.096	3172	6599	9771	5888	10044	51354	51354	57241	61397	1550	2574
8	CGL-AJJ	63	S	E	10.707	10.707	153.988	153.988	0.016	0.018	0.692	0.739	0	25	25	94	122	6165	6165	6259	6287	0	1371
	PALAKKAD DIVISION	547																					
1	PTJ-PGT	49	D	E	30.254	30.254	1134.100	1134.100	6.384	6.901	283.446	290.016	9360	11099	20458	4818	20291	33015	33015	37933	53306	1468	1608
2	PGT-SRR	44	D	E	30.422	30.422	1157.316	1157.316	6.055	7.262	255.759	294.961	8509	10761	19270	16740	20232	33620	33620	50361	53852	1405	1482
3	SRR-CLT	86	D	NE	27.552	27.552	1046.600	1046.600	2.919	4.090	122.245	159.909	3981	4868	8850	8080	10110	30267	30267	38348	40377	1364	1190
4	CLT-CAN	89	D	NE	26.549	26.549	1019.989	1019.989	2.444	4.495	95.205	172.336	4632	3082	7714	7936	8799	29482	29482	37418	38281	1895	686
5	CAN-MAQ	131	S	NE	22.839	22.839	880.839	880.839	2.662	4.466	109.780	178.995	5862	2029	7891	9607	7911	25602	25602	35208	33512	2202	454
6	PGT-PGTN	4	S	NE	3.742	3.742	29.998	29.998	0.003	0.008	0.115	0.230	7	14	21	33	44	2204	2204	2237	2247	2413	1759
7	SRR-NIL	66	S	NE	7.025	7.025	162.331	162.331	0.012	0.010	0.321	0.272	0	18	18	50	33	4905	4905	4954	4937	0	1759
8	MAQ-PNMB	24	S	NE	8.065	8.065	285.211	285.211	0.902	1.440	38.291	60.700	1361	142	1503	2804	2272	8414	8414	11219	10688	1509	99
9	POY-PGTN	54	S	NE	6.799	6.799	86.308	86.308	0.019	0.038	0.528	1.421	33	83	116	62	140	2605	2605	2667	2744	1742	2178
	TRIVANDRUM DIVISION	620																					
1	SRR-CHTS	115	D	E	38.261	38.261	1499.911	1499.911	4.754	4.783	207.268	203.190	7087	6588	13675	13620	12993	43213	43213	56833	56206	1491	1377
2	ERS-QLN	156	S	E	25.376	25.376	962.141	962.141	0.730	0.932	30.904	38.439	298	1837	2135	1307	3107	27778	27778	29084	30885	409	1971
3	QLN-TVC	85	D	E	31.150	31.150	1214.267	1214.267	0.377	0.626	17.324	27.975	238	869	1108	815	1764	34952	34952	35787	38716	633	1389
4	NCJ-TEN	73	S	NE	10.808	10.908	409.496	409.496	0.464	0.703	21.370	31.438	478	754	1232	1142	1724	11775	11775	12917	13499	1030	1072
5	CAPE-TVC	87	S	NE	13.141	13.141	424.146	424.146	0.310	0.512	14.715	23.018	242	629	871	712	1352	12324	12324	13036	13676	781	1229
6	ERS-ALLP	57	S	E	16.828	16.828	638.174	638.174	0.295	0.568	13.805	25.516	100	1406	1506	540	2226	18343	18343	18883	20589	338	2475
7	ALLP-KYJ	44	S	E	14.164	14.164	522.148	522.748	0.273	0.549	12.598	24.108	113	1302	1416	545	2095	15057	15057	15602	17152	415	2372
8	TCR-GUV	23	S	E	6.996	6.996	212.022	212.022	0.000	0.000	0.000	0.000	0	0	0	1	1	6081	6081	6082	6082	0	0

संयन्ता विवरणिका/DENSITY STATEMENT 2015-16 197

Note : Route Kilometre as per Annual statistical Statement No. 8 for B. G. 4686.24
Route Kilometre as per Density Statement for B. G. 4626.00
The Difference is due to Non-Inclusion of Villivakkam(VLK) AnnaNagar(ANNG) in any section (The Traffic has been included (In Chennai (MAS). Arakkonam(AJJ) Section, Panamburu Yard, Cochin Harbour Yard, Tiruchchirappalli Yard, Chennai Local Kilometres like Basinbridge(BBQ) To Washermenpet(WST)Ilank, Vyasarpadi(VPY) to Korukkupet (KOK)Ilank etc. and rounding OFF.

दक्षिण रेलवे/SOUTHERN RAILWAY

सघनता विवरणिका 2015-2016 (छोटी लाइन)/DENSITY STATEMENT FOR THE YEAR 2015-2016—METRE GAUGE

Serial No.	Name of the Section	Route Kms. of the Section	Whether the Section is Single/Double/Triples	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-wheeled) Run on the Section		Average Daily No. of Goods trains run on the Section		Average Daily total No. of wagons (In terms of 8-wheeled) Run on the Section		Net tonne Kms. per route Kms. per day		Total (14 + 15)	Gross tonne kilometres (including weight of engine and weight of engine and Departmental) For Coaching including proportion of mixed per route kilometre per day		Gross tonne kilometres (including weight of engine and weight of engine and Departmental) For Coaching including proportion of mixed per route kilometre per day		Gross tonne kilometres (including weight of engine and weight of engine and Departmental) For Coaching and Goods services combined per route kilometre per day		Average net load per Goods train	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
1	SALEM DIVISION MTP-UAM	46	S	NE	Up.	Dn.	Up.	Dn.	Up.	Dn.	Up.	Dn.	Up.	Dn.	0	13	13	717	717	730	730	0	0

46

Note : Route Kilometre as per Annual statistical Statement No. 8 for M. G.

408.21

Route Kilometre as per Density Statement for M. G.

46.00

The Difference is due to Inclusion of sections under Gauge conversion Sencottah (SCT)-Punalur(PUU) 48 Kms. Madurai (MDU) Bodinayakanur (BDNK) 90 Kms., Tiruturalpoondi(TTP)-Agastiyampalli(AGX) 37 Kms., Tiruturalpoondi(TTP)-Karalkudi (KKD) 121 kms. Tiruturalpoondi (TTP) . Thiruvannamalai (TVR) 28 kms. Kinattukkadavu (CNV)-Pollachi(POY) 23 Kms., Podanur (PTJ)-Kinattukkadavu (CNV) 17 Kms., Totalling 362 Kms.

दक्षिण रेलवे/SOUTHERN RAILWAY

वर्ष 2015-2016 के लिए प्रमुख मार्ग एवं अन्य सडकों का धनत्व विवरण/

DENSITY STATEMENT FOR ARTERIAL ROUTES AND OTHER ROUTES FOR THE YEAR—2015-2016

(Figures in Thousands)

Routes	NTKM				GTKM			
	Up	Down	Goods		Coaching		Combined	
			Up	Down	Up	Down	Up	Down
BROAD GAUGE								
Arterial	55,64,062	9,65,25,30	1,19,92,348	1,68,36,206	2,56,70,806	2,56,70,806	3,76,63,154	4,25,07,012
Others	2,69,571	2,43,617	9,07,989	10,69,743	47,03,789	47,03,789	56,11,778	57,73,532
Total	58,33,633	98,96,147	1,29,00,337	1,79,05,949	3,03,74,595	3,03,74,595	4,32,74,932	4,82,80,544
METRE GAUGE								
Arterial	0	0	0	0	0	0	0	0
Others	0	0	116	116	5318	5318	5434	5434
Total	0	0	116	116	5318	5318	5334	5434