



पश्चिम मध्य रेल

**WEST CENTRAL RAILWAY**

महाप्रबंधक की वार्षिक रिपोर्ट 2014-15

**GENERAL MANAGER'S**

**ANNUAL REPORT**

**2014-15**





रमेश चन्द्रा  
महाप्रबंधक



पश्चिम मध्य रेल

West Central Railway

महाप्रबंधक कार्यालय  
जबलपुर - 482 001

General Manager's Office  
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No. WCR/HQ/STAT/505/GM/AR/2014-15

Dated: 10-10-2015

सचिव/The Secretary,  
रेल मंत्रालय/Ministry of Railway,  
रेलवे बोर्ड/Railway Board,  
नई दिल्ली/New Delhi.

विषय: वित्तीय वर्ष 2014-15 के लिये महाप्रबंधक की वार्षिक रिपोर्ट

Sub: GM's Annual Report for the financial year 2014-15

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मैं इसके साथ वित्तीय वर्ष 2014-15 में संपन्न पश्चिम मध्य रेल के कार्य की अपनी वार्षिक रिपोर्ट भेज रहा हूँ।

I forward herewith my Annual Report on the working of West Central Railway during the financial year of 2014-15.

संलग्न: यथोक्त

DA: As Above

(रमेश चन्द्रा)



### **KEY STATISTICS - WEST CENTRAL RAILWAY**

<b>SN</b>	<b>ITEMs</b>	<b>UNIT</b>	<b>2013-14</b>	<b>2014-15</b>
<b>I</b>	<b>PLANT &amp; EQUIPMENTS:</b>			
1	Capital- at- charge	₹ in Crores	3745.44	3965.68
2	Total Investment	₹ in Crores	10715.37	12461.87
3	Route Kms.	Kms.	2992.07	2995.07
4	Running Track Kilometres	Kms.	4741.89	4769.25
5	Locomotives	Nos.	947	954
6	Passenger Carriages	Nos.	1226	1250
7	Wagons	Nos.	10326	10347
8	Railway Stations	Nos.	294	296
<b>II</b>	<b>OPERATION:</b>			
1	Passenger i. Train Kms.	Millions	39.47	40.71
	ii. Vehicle Kms.	Millions	1600.99	1710.81
2	Freight i. Train Kms.	Millions	27.96	28.27
	ii. Wagon Kms.	Millions	1384.73	1359.43
<b>III</b>	<b>VOLUME OF TRAFFIC:</b>			
1	Passenger Originating	Millions	142.55	139.00
2	Passenger Carried	Millions	281.43	287.90
3	Passenger Kms.	Millions	73093.80	75871.41
4	Tonnes Originating			
i	Revenue earning Traffic	Millions	36.63	40.52
ii	Total Traffic (Rev+Non-revenue)	Millions	37.00	40.87
5	Tonnes Carried			
i	Revenue earning Traffic	Millions	135.15	153.67
ii	Total Traffic (Rev+Non-revenue)	Millions	135.94	154.63
6	Tonne Kms.			
i	Revenue earning Traffic	Millions	54574.60	55271.79
ii	Total Traffic (Rev+Non-revenue)	Millions	54616.40	55308.81
<b>IV</b>	<b>EMPLOYMENT AND WAGES:</b>			
1	Regular Employees	Units	57571	57047
2	Annual Wages of employees	₹ in Crores	1862.04	1975.52
3	Average wages per employee	₹ in Lakhs	3.23	3.46
<b>V</b>	<b>FINANCIAL RESULTS:</b>			
1	Gross Earnings	₹ in Crores	8736.99	10506.71
2	Total Working Expenses	₹ in Crores	6208.93	6678.48
3	Operating Ratio	Percent	71.06%	63.56%
3	Net Earnings	₹ in Crores	2528.06	3828.23
4	Gross traffic receipts	₹ in Crores	8736.18	10510.15
5	Net traffic Receipts	₹ in Crores	2571.55	3847.42
6	Net Misc. Receipts	₹ in Crores	3.58	4.36
7	Net Revenue Receipts	₹ in Crores	2575.13	3851.78
8	Dividend to General revenue	₹ in Crores	170.79	185.28
9	Gain	₹ in Crores	2404.34	3666.50



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## प्रयुक्त शब्दावली / GLOSSARY

ब्याज देय पूँजी (Capital at Charge)	:	रेलवे की पूँजी परिसम्पत्ति का बही मूल्य
सकल अर्जन (Gross Earning)	:	किसी लेखा अवधि का सही अर्जन चाहे वह वास्तव में वसूल हुआ हो अथवा नहीं
संचालन व्यय (Working Expenses)	:	यातायात के लिये खोली गयी लाइनों के प्रशासन, परिचालन, अनुरक्षण और मरम्मत के संबंध में किया गया खर्च। इसमें प्रस्थापना और नवीकरण की लागत पूरी करने के लिये पेंशन निधि में विनियोजन और आरक्षित निधि में किया गया अंशदान भी शामिल है
परिचालन अनुपात (Operating Ratio)	:	संचालन व्यय का सकल अर्जन के साथ अनुपात
इंजिन किलोमीटर (Engine Kilometre)	:	इंजिन द्वारा अपनी शक्ति से तय की गयी एक किमी. दूरी
इंजिन घंटे (Engine Hours)	:	इंजिन के शेड से चलकर शेड में वापस पहुँचने तक का समय
गाड़ी किलोमीटर (Train Kilometre)	:	दूरी माप का यूनिट जो गाड़ी के एक किमी. गमन दूरी के बराबर है
गाड़ी इंजिन घंटे (Train Engine Hours)	:	गाड़ी के साथ इंजिन के रवाना होने से लेकर गंतव्य तक पहुँचने तक का कुल समय।
निवल टन (Net Load)	:	किसी वाहन द्वारा ढोये गये यात्रियों, माल असबाब का वजन
ढोया गया टन भार (Tonnes Carried)	:	आरंभिक लदान, दूसरी रेलवे या आमनों से प्राप्त माल एवं उस रेलवे से गुजरने वाले माल की मात्रा (टन में) का कुल योग
निवल टन किमी. (Net Tonne Km.)	:	एक टन माल (जिसमें परिवहन के लिये प्रयुक्त वाहन का वजन शामिल नहीं है) की एक किमी. तय की गयी दूरी के माप की ईकाई
सकल टन किमी. (Gross Tonne Km.)	:	कार्य माप का यूनिट जो वाहन, माल और मोटिव पावर के साथ अथवा नहीं के द्वारा एक किमी. तय की गयी दूरी के बराबर है
प्रारंभिक यात्री (Passenger Originating)	:	रेलवे के एक गेज से बुक किये गये यात्रियों की संख्या
ढोये गये यात्री (Passenger Carried)	:	इसका आशय है रेलवे पर यात्रा प्रारंभ करने वाले यात्रियों की संख्या और अन्य रेलों से आने वाले यात्रियों की संख्या तथा उस रेलवे से गुजरने वाले यात्रियों की संख्या का योग
यात्री किलोमीटर (Passenger Km.)	:	यूनिट जो एक यात्री की एक किमी. तय की गयी दूरी के बराबर है
मार्ग किमी.(Route Km.)	:	रेलवे के स्वामित्व वाली चालित लाइनें जिसमें प्रत्येक आमन की दूरी को इकहरी लाइन माना गया है
चालू रेलपथ किमी. (Running Track Km.)	:	मार्ग किमी दूरी के अलावा बहुसंख्यक रेल पथों की अतिरिक्त दूरी अर्थात् दुहरी, तिहरी आदि रेल पथों का योग जिसमें साइडिंगों, याडों और स्टेशन पर क्रासिंग रेलपथ शामिल नहीं होगा
समेकित रेलपथ किमी. (Equated Track Km.)	:	रेलपथ के किलोमीटर की दूरी जिसे यातायात के घनत्व, ढाल, भूमि की बनावट, सुरक्षण, वर्षा और रेलपथ के जोड़ तथा अभिन्यासों के कारकों को महत्व देकर मानक यूनिट के समीकृत किया गया हो।



## 1. प्रशासन/GENERAL ADMINISTRATION

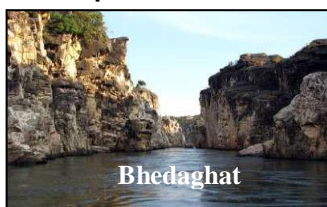
With the Gazette notification by the Ministry of Railways, proclaiming the formation of West Central Railway, the new Zone became a reality on 1<sup>st</sup> April 2003. The territorial jurisdiction of West Central Railway extends from Khandwa (excluding) to Manikpur (excluding) on the Mumbai-Howrah route, via Itarsi-Jabalpur, in the West-East direction and from Mathura (excluding) to Nagda (excluding) on Delhi-Mumbai route via Ratlam forming a part of



golden quadrilateral of Indian Railways. In the North-South direction, the Zone has Bina (including)–Bhopal-Itarsi (including) section of Delhi-Chennai trunk route. In addition, important freight corridor of New Katni Jn.-Bina and branch line sections of Katni-Singrauli, Satna-Rewa, Jukehi-Kymore, Bina-Guna-Kota, Kota-Chanderiya (excl.) are also within the jurisdiction of this railway.

### Important Stations

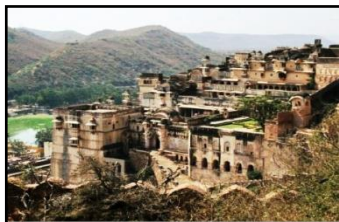
The important stations of West Central Railway are:



- **Jabalpur:** Bheraghat which is famous for marble rocks and waterfall is in Jabalpur. Also Kanha National Park is about 190 Kms from here.
- **Katni:** Bandhavgarh Wildlife Sanctuary is about 65 Kms from here. Also an important Railway junction.
- **Satna:** World famous Khajuraho temple is about 150 Kms.

from Satna. Also major cement industries are located near Satna.

- **Maihar:** is famous for Maa Sharda Devi Mandir and Maihar cement siding.
- **Bhopal:** The capital of the State of Madhya Pradesh. Habibganj Station- the first handicap friendly ISO 9001-2000 certified station is near Bhopal.
- **Itarsi:** an important Junction on New Delhi-Mumbai, New Delhi-Chennai and Mumbai-Howrah routes. It has Electric and Diesel Loco sheds.
- **Kota:** The business hub of Rajasthan famous for Cotton Sarees of Kota.
- **Sawai Madhopur** is famous for tiger sanctuary at Ranthambore.
- **Bharatpur** is famous for Kevladev Bird sanctuary.
- **Piparia:** Pachmarhi hill station is about 65 Kms. from Piparia Railway Station.



- **Bundi:** Bundi station on Kota-Chittaurgarh route is famous for Bundi Fort just 36 km from Kota a tiny picturesque town. One of the unexplored cities with a rich historical wealth. Once a part of Kota, it was ruled by the Had Chauhans.

## TEAM WCR

1	<b>General Manager</b>	:	<b>Shri Ramesh Chandra</b>
2	Senior Deputy General Manager/CVO	:	Shri Naveen Chopra
3	Principal Chief Engineer	:	Shri J. S. Sondhi
4	Chief Operations Manager	:	Shri Ajit Kumar Jain
5	Chief Commercial Manager	:	Shri S. C Jethi
6	Chief Mechanical Engineer	:	Shri Rajesh Agrawal
7	Chief Electrical Engineer	:	Shri A. K. Kapoor
8	Financial Advisor & Chief Accounts Officer	:	Shri Kartic Chouhan
9	Chief Signal & Telecom Engineer	:	Shri S. P. Trivedi
10	Chief Safety Officer	:	Shri B. K. Gupta
11	Controller of Stores	:	Shri Pradeep Ambare
12	Chief Personnel Officer	:	Shri G. L. Meena
13	Chief Security Commissioner	:	Shri S. K. Parhi
14	Chief Medical Director	:	Dr. Smt. S. L. Patra
15	DRM Bhopal	:	Shri Alok Kumar
16	DRM Jabalpur	:	Shri Sudhir Kumar
17	DRM Kota	:	Ms. Seema Kumar
18	CWM CRWS Bhopal	:	Shri Laxmi Raman
19	CWM WRS Kota	:	Shri Kundan Kumar

## Passenger Traffic

### Total number of Passenger trains

31-03-2015

ITEMs	Nos.	ITEMs	Nos.
1. No of Mail/Express Trains	<b>590</b>	2. Nos. of Specific Trains run in WCR	50
a. Daily	152	a. No of Rajdhani Trains	16
b. Weekly	260	b. No of Shatabdi Trains	04
c. Bi-weekly	88	c. No of Jan Shatabdi Trains	04
d. Tri-weekly	60	d. No of Garib Rath Trains	08
e. 4 days in a week	16	e. No. of Duranto Express Trains	16
f. 5 days in a week	12	f. No. of Rajya Rani Trains	02
g. 6 days in a week	02	3. Total No of Passenger Trains	<b>112</b>
		<b>4. Total number of Trains (1+2+3)</b>	<b>702</b>

### Freight Traffic (Commodity Loaded)

#### Commodity: Cement & Clinker

31-03-2015

Division	Sidings	Capacity per annum
Jabalpur	ACC Cement Siding at Jukehi	3.50 MT
	Birla Cement Siding at Satna	3.12 MT
	Maihar Cement Siding at Maihar	4.20 MT
	Diamond Cement Siding at Damoh	1.50 MT
	JP Rewa Sidings at Turki Road and Satna	7.40 MT
	Prism Cement Siding at Hinauta	7.20 MT
Kota	Mangalam Cement at Morak	2.00 MT
	Shri Ram Fertilizer & Chemicals at Dadh Devi	0.37 MT
	ACC Cement Siding at Lakheri	1.50 MT

#### Commodity: Fertilizer

Division	Sidings	Capacity per annum
Kota	Shri Ram Fertilizer & Chemicals at Dadh Devi	0.37 MT
	Chambal Fertilizer & Chemicals Ltd., Bhonra Siding	2.15 MT
Bhopal	National Fertilizer Limited Vijaypur	2.05 MT

#### Commodity: LPG

Division	Sidings	Capacity per annum
Bhopal	GAIL Siding Vijaypur	0.52 MT
Bhopal	Bina Refinery	6.00 MT

(MT=Million Tonnes)

## IMPORTANT ASSETS

### Workshops

31-03-2015

Workshops	Work done	Capacity	ISO Awards	Other Awards
Coach Rehabilitation Workshop (CRWS), Bhopal	Midlife rehabilitation (MLR) of coaches	58 coaches per month	Integrated Management System (IMS) ISO 9001:2008, 14001:2004	Occupational Health and Safety Assessment Series 18001:2007 certificate
Wagon Repair Shop (WRS), Kota	POH of wagons (Oil tank and LPG wagons)	450 wagon units per month	Integrated Management System (IMS) ISO 9001:2008, 14001:2004	Occupational Health and Safety Assessment Series 18001:2007 certificate
BOXN ROH Depot, New Katni Jn.	ROH Of BOXN wagons	600 BOXN wagons per month	ISO 9001:2000 certificate	

### Sheds

31-03-2015

Sheds	Total Loco Holding	Type wise Holding	ISO Awards	Other Awards
Electric Loco Shed, TKD	200 as on 31.03.15	84 WAG-5 29 WAG-7 44 WAG-9 20 WAM-4 23 WAP-7	ISO 9001:2000, 14001:2004	Occupational Health and Safety Assessment Series 18001 certificate
Electric Loco Shed, Itarsi	191 as on 31.03.15	33 WAM-4 64 WAP-4 94 WAG-5		
Electric Loco Shed, New Katni Jn.	188 as on 31.03.15	114 WAG5 74 WAG7		
Diesel Loco Shed, New Katni Jn.	195 as on 31.03.15	9 WDM2 121 WDG3A 42 WDM3A 13 WDG-4 02 WDG-4D INF 08 Accident /UC	ISO 14001:2004 ISO 9001:2000	
Diesel Loco Shed, Itarsi	180 as on 31.03.15	13 WDM2, 67 WDM3A, 43 WDM3D, 08 WDP-4B 21 WDP4D 02 WDM2 INF 03 Accident/UC 23 WDS6	ISO 9001:2000, 14001:2004	Occupational Health and Safety Assessment Series 18001 certificate

**PHYSICAL INFORMATION OF WCR:****31-03-2015**

## 1. State-wise Route Kms/Running Track Kms.

State	MP	Rajasthan	UP	Total
Route Kms	2183.13	758.22	53.72	2995.07
Running Track Kms	3486.11	1179.47	103.67	4769.25
Track Kms	4403.87	1684.19	117.0	6205.06

## 2. Division-wise Route Kms/Running Track Kms.

Divisions	Jabalpur	Bhopal	Kota	Total
Route Kms	1083.29	1015.46	896.32	2995.07
Running Track Kms	1845.28	1482.87	1441.10	4769.25
Track Kms	2390.81	1845.78	1968.47	6205.06

## 3. Route-wise Route Kms/Running Track Kms.:

Routes	A	B	D/Spl	D	E	Total
Route Kms	787.05	699.82	419.76	343.78	744.66	2995.07
Running Track Kms	1612.28	1380.04	687.80	343.78	745.35	4769.25
Total Track Kms	2222.59	1754.40	889.04	453.91	885.12	6205.06

## 4. Tractionwise Route Kms/Running Track Kms.:

Routes	Electrified	Non-Electrified	Total
Route Kms	1589.40	1405.67	2995.07
Running Track Kms	2865.22	1904.03	4769.25
Track Kms	3710.10	2494.96	6205.06

## 5. Equated Track Kms : 9169.33

## 6. Level Crossings :

Manned	Unmanned	TOTAL
767	38	805

## 7. Bridges:

Important	Major	Minor	TOTAL
217	414	5430	6061

## 8. Total number of stations : 299

(Excluding Block Huts as per Commercial Records)

Class A1	: 03	Annual Passenger Earning > ₹60 crores
Class A	: 14	Annual Passenger Earning between ₹8 and ₹60 crores
Class B	: 14	Annual Earning between ₹4 and ₹8 crores & Tourist importance
Class C	: 0	Suburban
Class D	: 34	Annual Earning between ₹60 lakhs and ₹4 crores
Class E	: 196	Annual Earning below ₹60 lakhs
Class F	: 38	Halt Stations

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## 2. लेखा/ACCOUNTS

### 1. INTRODUCTION

Accounts Department of West Central Railway is headed by a CHOD officer (SAG) assisted by 02-SAG officers, 06-SG officers, 05-JAG officers, 22-Sr.Scale officers and 13-JS/AS officers posted in HQ., Cash & Pay, EDP centre, three Divisions (JBP, BPL & KOTA), two workshops (CRWS/BPL & W&S/KOTA), and three Construction units (JBP, BPL & KOTA).

### 2. MAN POWER

The total sanctioned strength of Group-'C' & 'D' staff including revenue and work-charged posts is 897 and operated strength is 735. There are 162 posts lying vacant in Accounts Department.

### 3. AWARD WON BY STAFF OF ACCOUNTS DEPARTMENT FOR 2014-15

Shri P.G. Panicker, CFPE/HQ has been honoured with 60<sup>th</sup> Railway week Award at Board level 2014-15. Apart from this Shri Dhiraj Kumar SSO(Budget)/HQ and Sanjeev Kr. Sharma SSO. Sr. DFM/BPL office honoured with GM award this year. GM group award has been given to pension/HQ.

### 4. PERFORMANCE OF VARIOUS SECTIONS OF ACCOUNTS DEPARTMENT

#### 4.1 ADMINISTRATION

i. **Adminstration:** On Account Department of WCR total 897 Gr.'C' & 'D' employees are on roll and since the cadre of all account staff have been maintained centralised hence all related activities such as –Posting, Transfer, Promotions etc. are being done at Head Quarter level only.

#### ii. Achievements of Administration Section 2014-15

- Appendix-IIA exam conducted successfully in September 2014.
- Two court cases disposed off in favour of Railway Administration due to exceptional efforts.
- Grant of Financial upgradation benefit under MACPS to 36 employees of Accounts Department.
- Promotion of 19-Accounts Clerks to JAA, 05 JAA to AA, 33 AA/JAA/PS-II to SR.SO/Sr.TIA/Sr.ISA. 04-ASV to Sr.ASV & 01- Sr.Steno to PS-II. 01-Sr.ASV to Sr.ISA & 07-Group D to Group-C in time.
- Selection from Group-D to C (25%) has been done in Nov-Dec 2014.
- Selection for PS-II has been done in Nov- Dec. 2014.
- Selection for Group-B as AAO/ADFM through LGSE (70%) quota has been done successfully in December-2014.
- 19- Online & 02-offline grievances received during the financial year and all have been disposed timely and promptly.

#### 4.2 BUDGET SECTION

Budget section is a hub of information for earning & expenditure of WCR. It is primarily responsible for preparation of budget & assessment/re-assessment of requirements of field units. It works in close co-ordination with field Executive/Accounting Units on their requirements as well as distribution of Budget Grant/Revised Grant/Final Grant and strives for control of expenditure.

The expenditure control by this section is based on submission of performance Budget & Outcome Budget, preparation of monthly Budget proportionate & monthly financial review to FA&CAO for Revenue & Works Demands as well as scheduled 03 stage budget review viz. August Review, Revised Estimate/Budget Estimate and Final Modification.

Overall ₹4997.81 Cr. Spent by WCR against Final Grant of ₹5277.12 Cr. During financial year 2014-15, in which ₹279.31 Cr. is saving, the saving is under Demand no 3 to 13 and total expenditure incurred (-) 5.29% than Final Grant. Total Revenue earned ₹10506.71 Cr. against target of ₹10793.39 Cr. this resulted in achieving an operating ratio of 63.56% against the target of 64.41%.

#### 4.3 FINANCE

Head quarter's Finance section is entrusted to carry out financial scrutiny of expenditure and establishment proposals mooted from divisions, workshops and HQ. These proposal includes revenue proposals, M&P proposals (at Railway Board level/GMs level) PWP proposals (at Railway Board level/GM's level). Vetting/concurrence of estimates, brief notes, quotations, rates analysis, contract agreement, variation statements, re-appropriation of funds, hiring of vehicles and general policy matter as well as SOPGEN revision proposals of all departments of open line and construction organization, creation of revenue/work charged posts and extension of work charged post and all other finance establishment matter.

The total numbers of proposals dealt during the period from April 2014 to March 2015 under different categories are detailed as below:-

Sr. No.	Type of proposal	No. of proposal	
		2013-14	2014-15
1.	Misc. Revenue Proposals	1502	1193
2.	M&P proposals of Rly. Bd.level & GM's lump-sum grant	100	47
3.	Work programme proposals of Rly Bd. Level and Zonal level	305	319
4.	Vetting of estimates, Brief notes, rate analysis, contract agreement and concurrence on variation statement	125	93
5.	SOPGEN Revision	08	42
6.	FE proposals	481	277
7.	Medical reimbursement	103	115

**Note:** System improvements-

- (1) A register has been maintained for allotment and utilization of D&G charges for creation/extension of work charged post in order to ensure that creation/extension is within the allotted D&G.

#### **Savings:-**

The total saving achieved during the period April 2014 to March 2015 as a result of objective scrutiny of finance proposals is ₹ 33.42 crores.

#### **4.4 EXPENDITURE**

##### **i. Brief description about work handled by Expenditure Section/Head Quarters**

- a) To check & pass the Contractors Bills, SAIL Bills, RITES Bills, G. R. P.Bills, Misc Petty Bills (Advertisement, Advocate bills, News Paper, Petty purchase, etc.), Hiring of Private Vehicle, AMC bills.
- b) To prepare the returns of Railway Board & HQ.
- c) To prepare all the annexure related with Expenditure Section of Appropriation Accounts.
- d) To prepare the T.Cs & JVs for accountal of Cash Suspense.
- e) To maintain the register of Bank Guarantee and related work.
- f) To maintained all Suspense Register of Deposit X, Deposit Work, Deposit S.D, Misc Advance Revenue.
- g) To the accountal of IRFA, IRCA, IRFC etc.

##### **ii. Performance parameter figures for 2014-15 increase/decrease in work handled.**

Description	2013-14	2014-15	% Variation Over 2013-14
Bills & PO Passed	4446	4345	(-) 2.27% decrease

##### **iii. Special Achievement during 2014-15**

- a) IRFA- Credit earnings ₹164.47 Crores (during the year 2014-2015).
- b) Recovered the old outstanding amount of ₹3.95 Crores towards unauthorized occupation of GRP Staff as penal rent, electricity/Water charges during the financial year 2014-15.
- c) Claim CENVET Credit ₹52.18 Crores (due to service tax paid by Railway).

#### **4.5 BOOKS**

##### **i. Main Ares of concern for Books Section**

- a) To prepare the reports on receipts (earnings) and outgoing (expenditure) of the zonal railway. In this regard an actual and approximate account current is prepared for each month of the financial year and submitted to Railway Board.
- b) To ensure that railway earning are credited correctly to the railway account maintained in Reserve Bank of India.
- c) To ensure that the payments made by railway to staff and outside bodies are cocrrectly debited to the railway account maintained in Reserve Bank of India.
- d) To ensure that receipts and payments made to various government departments are in order.
- e) To control over railway's expenditure through exchequer control, cash outgo etc.
- f) To authorize bank for payments to staff and outside bodies through issue of cheques and ensure that the payment is being made to the concerned only.
- g) Accountal of receipts and payements made on behalf of other railways and made by other railways on behalf of WCR through a web based programme called eRecon.

**ii. Achievement of Books Section during the year 2014-15**

- a) Successful reconciliation of transfer transactions through eRecon (a web based programme).
- b) Compilation, preparation and submission of monthly and periodical reports viz. Approximate Account current, Actual Account current, Cash outgo, half yearly suspense review have been carried out successfully within the time schedule throughout the year.
- c) The electronic payments of contractors/suppliers/staff salary through RTGS/NEFT are successfully running in the zone.
- d) Proper and up to date accountal of remittance into bank have been done throughout the year.
- e) Proper control over expenditure through 'Exchequer Control' has been carried out throughout the year.

**4.6 PENSION /PF /NPS**

**Pension**

- a) Spot checking of 9284 PPO's in different 59 banks was carried out during 2014-15 and debit scroll of different banks were checked. By way of checking over payment of ₹14.97 crores was detected out of which 14.40 crores have been recovered or adjusted and balance is being recovered.
- b) Pension master for all 65251 pensioners who are drawing pension in MP, has been updated up to 31.03.2015.
- c) Complete data of 53301 pensioners of WCR has been uploaded in ARPAN up to 31.03.2015.
- d) ARPAN has been implemented in all Accounting Units. Generation of PPO through ARPAN for normal retirement cases has been achieved.
- e) Expenditure under D. No.-13 towards pension & retirements benefits for 2014-15 is well within the Grant provided by Railway Board.
- f) By efforts of WCR, pension procedure has been simplified by dispensing the requirements of Life Certificate & Undertaking by paying branches with the consultation of Railway Board. This has resulted the early starting of first pension. Now in 80 to 90% cases pension is being commenced in the following month of retirement.
- g) For these achievements GM has awarded the (HQ) ppension section in Railway week award.

**PF**

Reconciliation of PF books with General book for the year 2014-15 has been successfully done & PF pass books and PF slips are being updated / printed & being provided all officers & staff.

**NPS**

All the work of NPS is up to date & funds of employee contribution & Government contributon are being transferred to NSDL fund Manager timely.

**4.7 TRAFFIC**

Traffic Accounts Branch is headed by FA&CAO(T) who is assisted by Dy.FA&CAO(T), Sr.AFA(T), AFA (Cog), AFA (Goods) and SrAFA(TIA) are responsible for check of station accounts, rendering financial advice on earnings proposals, billing to govt. departments and compilation of earnings.

**i. Originating Earnings**

Total originating earning for the year 2014-15 was ₹5477.02 Crores, details are as under:-  
(₹ in Crores)

Category	Actuals 2013-14	Target 2014-15	Actuals 2014-15	%Variation over 2013-14 actuals	%Variation over Target
Passenger	1159.24	1377.91	1338.05	15.42	-2.89
OCH	110.74	129.46	133.62	20.65	3.21
Goods	3405.89	4212.40	3883.81	14.03	-7.80
Sundries	87.99	108.00	121.54	38.11	12.54
Total	4763.86	5827.77	5477.02	14.97	-6.02



## ii. Apportioned Earnings

Total apportioned earning for the year 2014-15 was ₹10506.71 Crore. Details are as under-  
(₹ in Crores)

Category	Actuals 2013-14	Actuals 2014-15	Target 2014-15	%Variation over 2013-14 actuals	%Variation over Target
Passenger	2330.53	2692.56	2775.00	15.53	-2.97
OCH	116.95	138.23	137.00	18.20	0.90
Goods	6201.54	7548.96	7773.39	21.73	-2.89
Sundries	87.97	126.96	108.00	44.31	17.56
Total	8736.99	10506.71	10793.39	20.26	-2.66

## iii. Financial results (Actuals)

(₹ in Crores)

Category	Actuals 2013-14	Budget Target 2014-15	Actuals 2014-15	Variation between col 3&4	Variation between col 2&4
1	2	3	4	5	6
Passenger	2330.53	2775.00	2692.56	-82.44	362.03
OCH	116.95	137.00	138.23	1.23	21.28
Goods	6201.54	7773.39	7548.96	-224.43	1347.42
Sundries	87.97	108.00	126.96	18.96	38.59
Total	8736.99	10793.39	10506.71	286.68	1769.72
Suspense	-0.81	1.00	3.44	2.44	4.25
Gross Traffic receipt	8736.18	10794.39	10510.15	284.24	1773.97

## Achievements during 2014-15

- Diverted Goods traffic earnings- Additional Goods apportioned earnings due to diversion of goods traffic over WCR in 2014-15 received credit of ₹1014.40 crore and net Goods earning of ₹478.35 crore.
- On scrutiny of various finance (commercial) proposals and refund cases Traffic Accounts, the saving of ₹11.70 lakh in goods cases and ₹1.47 lakh have been achieved in 2014-15.
- During the year 118 goods and 18839 coaching refund cases and 62 Traffic finance proposals were cleared to end of March-2015.

## iv. Important cases detected by TIA's during the year 2014-15.

S.No.	Divn	Particulars	Amt.in ₹
1	KOTA	Incorrect grant of rebate on incremental traffic at kota goods but condition not fulfil under incentive scheme.	47,48,752
2	KOTA	Incorrect charging of booking special Train at Bharatpur station.	14,12,905
3	BPL	Fraudulent use of UTS tickets by JTBS at Ganjbasoda.	21,755
4	BPL	Fraudulent use of UTS tickets Bina Station.	40,990
5	BPL	Incorrect grant of rebate at Itarsi Goods under incremental traffic scheme.	1,48,94,023
6	JBP	Non collection of detention charges of rolling stock during load adjustment of overloaded wagons at various siding of JBP Division.	85,96,113

## 4.8 STORE AND WORKSHOP

### i. Stores Accounts Branch handled the following activities:-

- Stores Finance proposals.
- Purchase orders pre-check.
- Workshop Efficiency Cell, RSP proposal, Bulk order RSP debits.
- Stores Budget, vetting of indents, estimates, and comparative statements of stores tenders other than IREPS.
- Purchase suspense other than Fuel (OFT).
- Purchase Suspense (Fuel).
- Stores Bills, CO 6 & Recovery.
- Sales Suspense, DGS&D.

- i) Paper securities.
- j) PL unit and MMIS.
- k) GBPL/Co ordination work of Stores Accounts Branch.

ii. Performance parameter for 2014-15:

(figures in Crores of ₹)

Items		Opening Balance as on 01.04.2014	Accretion	Clearance	Closing Balance as on 31.03.2015
Purchase Susp.(OTF)	Dr.	58.57	346.91	326.99	78.49
	Cr.	89.26	345.87	327.12	108.01
Purchase Susp.(Fuel)	Dr.	8.86	658.60	662.14	5.32
	Cr.	33.25	640.66	659.13	14.78
Sales Susp.		25.21	241.04	227.91	38.70
Purchase Susp.7130 DGS&D	Dr.	1.67	8.34	8.55	1.46
	Cr.	14.60	9.43	14.49	9.54
Purchase Susp.7110- Imported	Dr.	----	----	----	----
	Cr.	----	----	----	----

iii. Total No. of incoming proposals during the year 2014-15

Section	Year	Received proposals/Bills	Cleared proposals/Bills	Saving in ₹ (Crores)
Purchase Orders(P.O)	2014-15	1926	1926	3.70
RSP	2014-15	71	71	14.00
Condemnations of wagons	2014-15	29	29	
Indent/Estimate	2014-15	181	181	44.02
Finance proposals	2014-15	502	502	12.29
Bills Advance & R.O	2014-15	12099	11571	6.39

iv. Special achievements during 2014-15:-

a) **DGS&D section**

1.The debit balance of DGS&D is reduced from 1.67 Crore to 0.98 Crore, Similarly the credit balance is also reduced from 14.97 Crores to 8.16 Crore (Approx) in the financial year 2014-15.

2. For the first time the work of Write-back adjustment has been done during the financial year 2014-15 and ₹ 24 Crore have been adjusted.

b) **Stores Budget Section**

1. Due to close control the 'store in stock' inventory come down at ₹139.37 Crore to end of March 2015 against B. G. of ₹134.67 Crore with TOR (OTF) 16% Rly. Bd's had also fixed the target 16% for TOR (OTF).

2. In connection with store fuel oil the inventory is ₹10.23 crore against B.G. of ₹10.70 Crore which has been achieved due to close monitoring .

c) **Workshop Account Section**

1. Under workshop manufacture suspense total expenditure is ₹383.48 crore to end of March 2015 as against B.G. of ₹392.56 Crore and balance of WMS ₹10.38 Crore to end of March 2015 which is under permissible limits.

d) **Pre-check & Indent Section**

1. Saving achieved during PO Precheck in the financial year 2014-15 is ₹3.7 Crore.

2. Saving achieved during Indent Scrutiny in the financial year 2014-15 is ₹44.02 Crores.

4.9 **Zonal IT Centre:**

Zonal IT Centre of WCR is headed by EDP Manager/ HQ and is under the professional control of FA&CAO. The work performed by Zonal IT Centre is as follows:

- i. The complete work of Financial Management System (FMIS) of all the 9 accounting units of WCR and generation of scheduled reports along with account current.
- ii. Preparation of 7A statement with other related statements of Goods Traffic Accounting by converting FOIS data.

- iii. Passenger Traffic accounting is run and generation of 6A (Apportionment) statements for Printed Card Tickets (PCT) & PRS. Total earnings, Passenger Kilometer, Safety Surcharge from PRS & PCT (Separately for Local and Foreign Traffic) are generated. Data is sent to RITES every month for processing and creation of Centralised apportionment statements.
- iv. Statement for Sundry Earnings, refund bills, accounting of Luggage and Parcel Booking are also prepared.
- v. Technical guidance is imparted to all departments on IT related matters. Technical clearance is given after scrutinizing the requirements of individual units tailored to their respective needs.
- vi. Billing of all types of Military and Police warrants are prepared. Top summary of Military & Police warrants is being prepared from the month of April 2012 as per requirement of Traffic Accounts.
- vii. EFT package is running successfully and generation of TTE's earnings, missing EFTs statements and other reports.
- viii. Sales and suspense package (P.Way) for JBP, BPL & Kota divisions is run and generation of Transaction register, List of rejected voucher, Statement 6 & 24 and stock master etc.
- ix. Allotment of consignee code to various units.
- x. Accountal of diesel fuel issued to other Railway's Locos at WCR fuelling points for raising debits.
- xi. Daily position of bill passing by accounts department is being uploaded on WCR site.
- xii. Management of IT Cadre in WCR Zone including selection/postings are being done by this Zonal IT centre as well as correspondence regarding IT Cadre formation with Railway Board.

#### 4.10 CONSTRUCTION

- i. **Description of works handled** All types of financial proposals as Engineering, S&T, Electrical, Mechanical, Medical and Commercial department including the works related to:-

Sr. No.	Activities	Target Date
1.	Estimate	15 days.
2.	Variation	15 days.
3.	Survey	15 days.
4.	DOC	15 days.
5	Compilation of Monthly progress Report and MCDO.	On due date.
6	Maintenance of work wise expenditure for more than 200 works over WCR construction organisation	12 <sup>th</sup> of every month.
7	Inspection and Inspection reports.	On unit inspection in every two months.

#### 4.11 CASH AND PAY

- i. **Breif description about work handled by section under your control**  
रोकड़ कार्यालय जबलपुर एवं कोटा में लगभग 286 स्टेशनों एवं साइडिंगों से प्राप्त रेलवे आय की गणना की जाती है, एवं आय में प्राप्त रोकड़, डी0 डी0/चैक को बैंक में जमा किया जाता है।
- ii. **Performance parameter figures for 2013-14 and 2014-15.**  
Year 2013-14 (Fig in crores of ₹)

2013-14	Cash	DD/Cheque	Tr.Challan	ERR	Total
JBP	57.45	466.33	865.22	2132.21	3521.21
KOTA	52.29	23.18	380.17	379.36	835.00
Total	109.74	489.51	1245.39	2511.57	4356.21

Year 2014-15		(Fig in crores of ₹)			
201415	Cash	DD/Cheque	Tr.Challan	ERR	Total
JBP	64.23	564.50	853.58	2445.40	3927.72
KOTA	56.86	44.45	541.03	404.23	1043.57
Total	121.09	605.95	1394.61	2849.63	4971.29
Increasing % from year 2013-14	10.34%	23.78%	11.98%	13.46%	14.11%

iii. **Special achievements during 2014-15**

वर्ष 2014-15 के दौरान माह मार्च 2015 में मार्गस्थ रोकड (CIT) को NIL किया गया।

**FINANCIAL RESULTS 2014-15 (Actuals) (Figures in Crores of ₹ on Net Basis)**

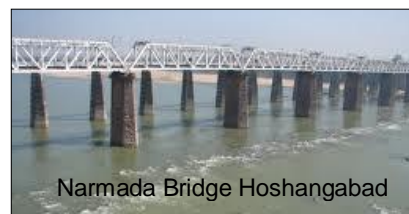
Sr. No.	Items	Budget(FG) 2014-15	Actuals 2014-15	Actuals 2013-14	IR Actual 2013-14
1	2	3	4	5	6
1	Earnings: a. Coaching	2775.00	2692.56	2330.53	36532.25
	b. Other Coaching	137.00	138.23	116.95	3678.52
	c. Goods	7773.39	7548.96	6201.54	93905.63
	d. Sundry	108.00	126.96	87.97	5721.29
2	Gross Earnings(Total a to d)	10793.39	10506.71	8736.99	139837.70
3	Suspense	1.00	3.44	-0.81	-279.53
4	Gross Traffic receipt	10794.39	10510.15	8736.18	139558.18
5	Ordinary Working Expenses:-				
a	Genl. Suptdt. & Services (3A)	238.54	228.35	207.67	5585.44
b	R&M of P Way & Works (4B)	559.15	519.13	498.20	9103.90
c	R&M of Motive Power (5C)	430.52	391.28	387.22	4369.41
d	R&M of Carriage & Wag (6D)	350.55	319.68	302.35	10124.87
e	R&M of Plant & Equip (7E)	346.34	311.92	301.24	5361.24
f	Optg.Exp.Rolling Stock (8F)	487.46	457.35	407.81	8575.27
g	Operating Exp.- Traffic (9G)	863.31	827.08	666.23	16213.22
h	Operating Exp.- Fuel (10H)	1628.72	1611.63	1664.70	29234.98
i	Staff Welfare (11J)	209.84	194.09	177.39	4501.56
j	Misc. Working Exp. (12K)	135.58	116.70	122.15	4324.63
k	Retirement Benefits (13L)	44.11	43.29	31.67	1317.83
	Total Ordy Working Expenses	5294.12	5020.48	4766.64	98135.03
6	Suspense	-17.00	-22.63	-44.31	-564.28
7	I. Appn. to DRF	306.00	306.00	317.22	7900.00
8	II. Appn. to Pension Fund	1352.00	1352.00	1125.07	24850.00
9	Total W Exp. (OWE incl. Suspense +Appn.to Funds)	6935.12	6655.85	6164.63	130320.75
10	Total W Exp. (OWE excl. Suspense +Appn.to Funds)	6952.12	6678.48	6208.93	130885.03
11	Operating Ratio %	64.41	63.56	71.06	93.60

\*\*\*\*\*

### 3. अभियांत्रिकी / CIVIL ENGINEERING

#### 1. Track

Scrap disposal has been done as 45706 MT during the year 2014-15 surpassing the target of 28800 MT. Track renewal 225.37 CTR units has been done during the year 2014-15 against the target of 191.06 CTR units.



Narmada Bridge Hoshangabad

#### 1.1 Track Renewal carried out during 2014-15

Sr. No.	Description	Renewal	Total Kms.
1	Through Rail Renewal (Primary)	RR	259.27
2	Through Rail Renewal (Secondary)	RR	85.94
3	Through Sleeper Renewal (Primary)	SR	45.32
4	Through Sleeper Renewal (Secondary)	SR	60.21
Total	Through Rail Renewal (Primary + Secondary)	RR	345.21
	Through Sleeper Renewal (Primary + Secondary)	SR	105.53

#### 2. Route Kms.

WCR route length stretches to 2995.074 Kms. with 1589.40 Kms. electrified and 4769.254 running track Kms. with 2865.22 Kms. electrified. The total track Kms. stands at 6205.06 Kms. with 3710.10 Kms. electrified. The table below shows the network at the end of 2014-15.



Year	Total Route Kms		Running Track Kms		Total Track Kms	
	Electrified	Total	Electrified	Total	Electrified	Total
2014-15	1589.40	2995.074	2865.22	4769.254	3710.10	6205.06

#### 3. Concrete Sleeper Production during the Year 2014-15

60 Kg M/L Sleepers	T-out sleeper 1 in 8.5 set	D/Switch sleeper set	Shallow Depth	Total Production equivalent of M/L Sleepers
213507 Nos.	190 Sets.	45 Sets.	3000 Nos.	2,33,559 Nos.

#### 4. Works

#### 4A. Salient features of the construction works executed by construction organization during the year 2014-15 are as below-

##### (1) New line

(i) Lalitpur-Singrauli (Mawai to Khajuraho)

(a) Mawai (Ex.) to Khargapur (23Km) : All work completed and application submitted to CRS for opening for Passenger Traffic.

(b) Khargapur to Chhatarpur:-All works completed except S&T works.

- Teela (Halt), Rampur (Halt) & Ishanagar (Crossing Station) Station Building & PF work completed. Chhatarpur (Crossing Station) Ground floor (S&T accommodation) completed and handed over first floor works in progress.

(c) Chhatarpur to Khajuraho :-

- All Bridges (21 minor bridge and 10 RUB) Completed, during 2014-15.
- Major Bridge at Ch: 143.760 completed. Substructures of three Major bridges completed and superstructure is in progress (Ch: 153.458, Ch: 158.364 & Ch: 164.325).
- 6,62,000m<sup>3</sup> Earthwork completed .
- 3.5 TKM Track Linking completed and further works in progress.

- (ii) Lalitpur- Singrauli (Rewa – sidhi)-
  - RUB at CH: 5620 & 7296 completed.
  - Structural work of Major Bridge (5x12.2m) at ch: 6836 completed.
  - Earth work, Minor bridges, RUBs & Major bridges in first 20 km in progress.
- (iii) Ramgangmandi-Bhopal: -
  - Tender for marking of alignment, land proposal, land plans, bridge details etc. between Biora Rajgarh- Bhopal awarded.
  - Jhalawar- Aklera - Kms 26.50 to 27.50 formation work completed.
  - Land from Km 130 to 135 acquired.

## **(2) Doubling Plan Head-15**

- (i) Ghatpindrai-Belkheda patch doubling (5.561 Km):
  - Earth work & 4 minor bridges completed.
  - P.I. Building at Belkheda completed.
  - All 10 girders bridges completed.
- (ii) Guna-Ruthiyai Doubling Project-(a)
  - Private Land (10.574 Hect.) acquired,
  - Forest Land (8.455 Hect) Handing & taking over has been done on 07.11.2014
  - Govt. land (2.742 Hect) acquisition is under process.
  - Construction of Staff quarters at GUN completed, Mahugarha & Ruthiyai are in progress.
  - Earth work & Minor Bridge works is in progress.
  - Earth work completed: 45% .
  - Minor Bridges completed: 5 Nos. out of 33 Nos.

## **(3) Traffic Facility Plan Head-16**

- (i) Upgradation with panel interlocking work at **Joba** station on KTE-SGRL section commissioned.
- (ii) PI building at Deoragram ,Bharsendi, and Saraigram station completed.
- (iii) Loop line at Khanna banjari & Beohari stations commissioned.
- (iv) JBP-Development of old loco area for future expansion of coaching complex at Jabalpur completed.
- (v) Mathela - Conversion of C class station in to B class station.
  - Three units type II Qtrs. completed.
  - Construction of FOB completed.
- (vi) Miyana - Conversion of halt station in to Crossing station-All Engineering and S&T work completed.
- (vii) Parakheda - Conversion of D class station in to B class PI building & PF work completed. P. way work is in progress.
- (viii) New crossing station- Kesholi station bet. Kota-RTA section commissioned on 21.08.2014.
- (ix) New crossing station - CRKR station bet. Kota- RTA section completed

## **(4) ROB/RUB plan head-30**

- (i) All 12 box segment and base slab of Shobhapur RUB cast.
- (ii) Ashok Nagar - Special ramp type Foot Over bridge-Railway portion completed on 23.08.14.
- (iii) Construction of ROB 82 bet. RMA- Morak completed in the month of May 14.
- (iv) 2 lanes Road Over Bridge in lieu of LC no 195 at ShriMahavirji (Karoli) completed.

## **(5) Bridge work plan head-32**

- (i) Rehabilitation of Bridge No. 1216/2 in JBP-MKP section completed.

## **(6) Signalling and Telecommunication works plan head – 33**

- (i) Construction of S&T building at Shamgarh between Kota-Nagda section
- (ii) Construction of S&T building at Garot between Kota-Nagda section
- (iii) Construction of RRI building at Kota completed.

## **(7) Workshops Plan Head-42**

- (i) ET(DLS) up gradation, Development & improvement facilities
  - Scrap yard work completed.
  - Aluminum sheeting in SMM ward completed.
- (ii) ET(ELS)-Augmentation of homing capacity of Electric loco to 175;All work completed.
- (iii) Provision of roof re-sheeting of workshop old sheets.

(iv) Non turnkey work completed including staff canteen.

**(8) Staff Quarters plan head-51**

(i) 5 block (10 units) type-II quarters at Gurra station completed.

**(9) Staff Amenities plan head-52 -Nil**

**(10) Passenger Amenities Plan Head-53**

(i) Malkhedi-UP&DN platform for 24 coach trains, approach road & FOB completed.

(ii) Platform Extension work at ASKN,DWG,GLG,PIA,SVPI , BAQ, SCI, PFR & CBK (9 Nos.) stations completed.

(iii) Raising of P/F at CMU bet. Kota - Nagda section completed.

(iv) Raising of P/f at Ramganjmandi bet. Kota - Nagda section completed.

(v) Provision of 2nd FOB at Sawaimadhopur station completed.

**(11) Other specified works Plan head-64**

(i) Setting up of new Zone

- 6 units type-IV & 12 units Type-III quarter completed.
- Officer's club & sport complex at Rail Saurabh completed.

(ii) New Katni Junction-Up gradation of Diesel traction training centre for running and maintenance staff at diesel shed completed & commissioned.

(iii) Railway protection force reserve line at Kota completed.

**(12) Survey works**

**1. Field survey completed**

- Damoh-Hatanagar-Khajuraho (RECT)
- Bhopal-Ashta-Dewas (RECT)
- Sagar-Bandri-Malthone-Lalitpur (RECT)
- Jabalpur-Indore. (RECT)
- Chhindwara-Khajuraho. (RECT)

**2. Report submitted to Railway Board**

- Katni-Singrauli Doubling (PECT)
- Biyavrarajgarh-Bina (Updation) Revised.
- Baran-Shivpuri (Updation) Revised.
- Guna-Aron-Sironj-Gangbasoda- Vidisha (Updation) Revised.

**3. Survey estimate sanctioned**

- Bhopal-Ashta-Dewas (RECT)

**4. TOR approved**

- Bhopal-Ashta-Dewas. (RECT)

**4B. Works completed by open line organization during 2014-15**

**I. Plan Head-51- Staff Quarters**

- 1) Bhopal Division- Replacement of sub standard quarters -110 units
- 2) Jabalpur Division- Construction of 50 units type- I and 6 units type -III quarters on replacement of old quarters at various stations.
- 3) Jabalpur - Provision of 4 units type-II quarters for staff near Hospital
- 4) Tugalkabad - Provision of 3 units type -IV quarters for staff
- 5) Dara, Ravtha road and Kapren : Construction of 8 units type-III quarters on replacement account
- 6) Dhaurmui Jaghina: Provision of 5 units type -II quarters for gang staff
- 7) Kota- Provision of 2 units type- V quarters for officers

**II. Plan Head -52- Staff Amenities**

- 1) Itarsi – Replacement of 2 Nos. old steel tanks by RCC HS tank of 2.5 lakh litres capacity in diesel shed colony at new yard and double story colony.
- 2) New Katni- Jn. - Replacement of mother tank of capacity 2.75 lakh litres and laying of 250mm dia DI/CI pipe line.
- 3) Bina - Guna -Maksi section : Electrification of Railway quarters against LC gates - 36 nos
- 4) New Katni Jn- Improvement to roof leakage in SKP and Diesel colony

**III. Plan Head- 53- Passenger Amenities**

**1) Foot Over Bridge:**

Jabalpur Division:- Satna, Pipariya, Deori & Malkhedi.

Bhopal Division:- Gulabganj.

Kota Division:- Sawai Madhopur, Bharatpur & Chhabra Gugor

2) **Platform work:**

Jabalpur Division: One Island platform completed at Jabalpur (PF4 =593 m,PF5= 595 m) & Katni (S) = 580 m.

Platform extension completed : Rewa

Bhopal Division : New Platform completed at Gulabganj and Diwanganj - 305 m each.

**Raising and Major improvement of Platforms surfacing:** Vidisha - PF 2 & 3 completed.

**Platform Extension completed:** Diwanganj, Gulabganj, Ganjbasoda, Ashok nagar, Pipriagaon, Shivpuri, Barkheda & Salamatpur.

Kota Division: Raising to high level platform Completed (12 Stations).

Platform Extensions: Salabad, Jaicholi and Bharatpur.

3) **Platforms Shelters:** Covers Over Platforms (COP) completed:- 26 Stations (8104 sqm.) Out of which 61 bays at 23 station (7566 sqm) completed in Kota division. Small Sheds (over the benches): 37 stations Completed. Out of which 19 stations completed in Jabalpur division.

4) **Washable apron:**

Jabalpur Division: Completed at Jabalpur station (2 nos)

Bhopal Division: Completed at Habibganj station (2 nos) and Itarsi station (1 no).

**Extension of washable apron** for P/F No.6 & 7 completed at Itarsi station.

Kota Division: 5 Stations completed one each at Kota, Sawaimadhopur, Gangapur city, Bharatpur and Bayana station

5) **Waiting Hall/Room:**

Jabalpur Division: At Jabalpur Waiting hall = 355 sqm, Ladies waiting room = 116 sqm, Upper class waiting room = 78 sqm and VIP waiting room= 65 sqm.

Adhartal Waiting hall = 80 sqm & Deori = 92 sqm, In addition to the above Ladies Waiting room at Maihar, First class waiting room at Uchehra and VIP room at Damoh station have also been provided.

Kota Division: Sawai Madhopur = 30 sqm.

6) **Adarsh Station:** Out of 20 stations identified on WCR, 18 stations have been completed.

Jabalpur Division: Sagour, Maihar, Ghatara, Jabalpur, Satna, Katni Murwara, Makronia, Damoh, Madanmahal, Patharia & Kareli. Balance two Gadarwara and Pipariya are in progress.

Bhopal Division: Ashok Nagar, Itarsi, Ruthiyai, Shivpuri, Biyavra-Rajgarh, Bina.

Kota Division: Sawaimadhopur

7) **MPLAD scheme :** Amounts received from Hon'ble MPs for providing seating arrangements at Railway Stations under MPLAD scheme.

- ₹ 24.88 Lakh received from Smt. Sushma Swaraj Hon'ble Minister for External Affairs and MP of Vidisha constituency.
- ₹ 10 Lakh received from Shri Om Birla Hon'ble MP of Kota constituency.
- ₹ 4.24 Lakh received from Shri Sudhir Gupta Hon'ble MP of Mandsour constituency.
- ₹ 35.00 Lakh commitment from shri Laxmi Narayan Yadav Hon'ble MP from Saugor constituency.
- ₹ 14.39 Lakh commitment from Shri Janardan Mishra Hon'ble MP of Rewa constituency.
- ₹ 2.2 Lakh commitment from Shri Nand Kumar Singh Hon'ble MP from Khandwa constituency.

8) **Provision of RO Plant :** At Bhopal station, work for installing RO plant of capacity 20 kilo litres per hour drinking water have been started for providing purified drinking water to passengers.

9) **Bio-Toilet:** At Habibganj station of Bhopal Division, Bio- Toilet using anaerobic decomposition of waste matter has been provided on island platform No. 4/5. For this purpose Bio-Digester tanks have been provided for collection and decomposition of sewage waste generated from the toilet.

10) **Water Supply:**

- Auto Chlorination Plant: 06 nos. commissioned.
- Over Head RCC tank: Completed 6 nos.
  - a. 2.25 Lakh litres at Bina & 2.50 Lakh litres at Harda.
  - b. 90000 ltrs. Capacity: 1 each at Sukisewania, Misrod and Obaidullaganj.
  - c. 45000 ltrs. At Chhanera.
- PVC tanks: Installed 18 Nos. 2 Nos. 20,000 litres, 8 Nos. 1,000 litres and 8 Nos. 500 litres
- Deep tube wells: 22 nos. Commissioned (18 BPL & 4 JBP Divn).
- New water supply pipe line: 700 metres



- New Coach watering facility: 3 PFs at Satna and 2 PFs at Jabalpur.

**IV. Plan Head- 64- Other Specified Works:**

1. Kota- Providing shed over TTM machine maintenance siding.
2. Jabalpur - Renovation of Senior Railway Institute
3. Jabalpur Division- Provision of Track machine rest house

**5. Level Crossings-**

Total No .of level crossings under various classifications during 2014-15:

Sr. No.	Classification of level crossings	Number of level crossings	Sr. No.	Classification of level crossing	Number of Level crossings
1	Special class	120	5	C-Class/Unmanned	38
2	A- Class	44	6	Canal/Manned	4
3	B- Class	92	7	Canal/Unmanned	1
4	C-Class/Manned	511	8	Total	810



Level crossing



Train Passing at crossing



Level crossing

**6. No. of level crossings during 2014-15:-**

➤	manned	=	36
➤	additional staff provided without up gradation	=	Nil
➤	provided with lifting barriers	=	Nil
➤	traffic census has been taken	=	288
➤	downgraded	=	Nil
➤	de-manned	=	Nil
➤	closed	=	105

- 7. Bridge Statistics:** There is 6061 Nos. of Bridges on this Railway. Out of these 217 Nos. are Important Bridges with linear waterway of 22306m, 414Nos. Major Bridges with linear waterway of 14847m and 5430 Nos. are minor Bridges with linear waterway of 16041m

Sr. No	Bridge Category	Waterway in meters			
		BG	MG	NG	Total
1	Important Bridges	22306	0	0	22306
2	Major Bridges	14847	0	0	14847
3	Minor Bridges	16041	0	0	16041
4	Total	53234	0	0	53234

**8. Bridge works completed during 2014-15**

a) Rehabilitation of Distress Bridges	:	00
b) Replacement of Girder by slab	:	00
c) Removal of speed restriction	:	17

**9. Progress of Bridge works (cost wise)**

Expenditure during 2014-15 under plan head (PH-32) bridge work up to the end of March 2015

Allocation	Final Budget Allotment for 2014-15 (in Crores)	Expenditure during 2014-15(in Crores)	%age of expenditure
SRSF	0	0	0
DRF	28.01	26.32	93.96
Total	28.01	26.32	93.96

**10. Earnings**

Sr. No.	Description	Actual earnings for the year 2014-15 (₹ in lacs)
1.	By sale of matured and dry trees	4.94
2.	By licensing land for GMF	0.00
3.	By licensing land for Tehbazari/Shopping	4.81
4.	By commercial licensing	2076.71
5.	Earnings from oil companies – bulk oil depots/retail outlets	0.06
6.	Lease of land to Govt. Deptt/PSUs	0.00
7.	Way Leave facilities & easement rights	2502.96
8.	Others	107.41
	<b>Total</b>	<b>4696.89</b>

**PROGRESS OF ROB/RUB WORKS**

**(A) COST SHARING BASIS**

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion 'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
1	2011-12	66	M.P.	Construction of 2-lane ROB & RUB at Shobhapur Km: 994/5-6 in lieu of LC No. 318 between Jabalpur - Adhartal station at Jabalpur - Manikpur section.	9.3732	14.62	Completed	Dec'15	100%	60%
2	2011-12	67	RAJ.	Construction of 4-lane ROB at Km: 1136/10-12 in lieu of LC No. 201 at Hindaun city station yard of GGC-MTJ section .	23.8608	23.86	Completed	Dec'15	100%	30%
3	2011-12	68	M.P.	Construction of 2-lane ROB at Km: 928/22-24 in lieu of LC No. 288 between Bhopal-Bina section	16.3900	17.9300	Not fixed	Not fixed	0%	0%
4	2012-13	70	M.P.	Construction of ROB on in lieu of LCs 204 at km 669/0-2 in Plasner-Harda section on KNW-ET.	4.9399	30.4778	Not fixed	Not fixed	0%	0%
5	2011-12	74	U.P.	Construction of 2-lane ROB at Km: 1227/12-14 in lieu of LC No. 255 between BXN-MTJ section .	8.4500	8.45	Not fixed	Not fixed	0%	0%
6	2011-12	75	RAJ.	Construction of 2-lane ROB at Km: 918/02 in lieu of LC No. 108 between DKNT-Kota station .	13.9356	13.93	Completed	Completed	100%	100%
7	2012-13	77	M.P.	Construction of ROB on in lieu of LCs 28 at KM 1050/6-7 in Saugor-Makroniya section on BIN-KTE.	13.2642	28.3771	Not fixed	Not fixed	0%	0%
8	2011-12	81	RAJ.	Karoli: Construction of 2-lane ROB at Km:1126/38-02 in lieu of LC No. 195 between GGC-MTJ section	8.4797	11.08	Completed	Mar'15	100%	0%
9	2012-13	84	M.P.	Construction of ROB on in lieu of LCs 357 at KM 1087/7-8 on Katni-Patwara section in ET-MKP.	8.5509	9.5509	Not fixed	Not fixed	0%	0%
10	2012-13	89	M.P.	Construction of ROB on in lieu of LCs 342 at KM 1047/9-10 in Dundi-Sleemnabad section on ET-MKP.	8.2429	9.2429	Not fixed	Not fixed	0%	0%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
11	2012-13	92	M.P.	Construction of ROB on in lieu of LCs 19 at KM 1034/5-6 in Nariaoli-Ratona section on BIN-KTE.	10.7937	11.3458	Not fixed	Not fixed	0%	0%
12	2012-13	96	M.P.	Construction of ROB on in lieu of LCs 21 at KM 1045/4-5 in Ratona- Sagour section on BIN-KTE.	10.3997	11.400	Not fixed	Not fixed	0%	0%
13	2012-13	99	M.P.	Construction of ROB on in lieu of LCs 236 at KM 813/0-1 in Pipariya-Bankhedi section on ET-MKP.	17.6306	18.6306	Not fixed	Not fixed	0%	0%
14	2012-13	103	M.P.	Construction of ROB on in lieu of LCs 271 at KM 889/7-8 in Bohani-Kareli section on ET-MKP.	8.4827	28.377	Not fixed	Not fixed	0%	0%
15	2012-13	107	M.P.	Construction of ROB on in lieu of LCs 222 at KM 720/10-12 on Dharamkundi-Khutwansa section in KNW-ET.	9.1844	10.1845	Not fixed	Not fixed	0%	0%
16	2012-13	111	M.P.	Construction of ROB on in lieu of LCs 231 at KM 759/6-8 on Powerkhera-Hoshangabad section in ET-BPL.	11.1175	12.1175	Not fixed	Not fixed	0%	0%
17	2012-13	114	M.P.	Construction of ROB on in lieu of LCs 240 at KM 801/14-16 on Obaidullangaj yard in Itarsi-Bhopal section.	20.8006	21.8006	Not fixed	Not fixed	0%	0%
18	2012-13	116	M.P.	Construction of ROB on in lieu of LCs 287 at KM 926/10-9 on Pabai-Ganjbasoda section in BPL-BINA.	12.4451	13.4451	Not fixed	Not fixed	0%	0%
19	2012-13	118	M.P.	Construction of ROB on in lieu of LCs 300 at KM 957/16-18 on Kalhar- Mandibamora section in BPL-BINA	10.8192	11.8092	Not fixed	Not fixed	0%	0%
20	2012-13	120	M.P.	Construction of ROB on in lieu of LCs 308-B at KM 976/5-6 on Bina yard	24.3346	25.3346	Not fixed	Not fixed	0%	0%
21	2012-13	122	M.P.	Construction of ROB on in lieu of LCs 247 at KM 826/22-24 on Misrod- Habibganj section in ET-BPL.	20.8865	21.8865	Not fixed	Not fixed	0%	0%
22	2012-13	124	M.P.	Construction of ROB on in lieu of LCs	15.3751	11.3458	Not fixed	Not fixed	0%	0%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion 'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				11at KM 1011/6-7 on Sumeri-Jaruakhera section in BINA-KTE.						
23	2012-13	126	M.P.	Construction of ROB on in lieu of LCs 112 at KM 1229/1-2 on Hardua-Katnimurwara section in BINA-KTE .	9.9882	10.9882	Not fixed	Not fixed	0%	0%
24	2012-13	128	M.P.	Construction of ROB on in lieu of LCs 30 at KM 1056/1-2 on Saugor-Makroniya section in BINA-KTE.	11.2892	28.377	Not fixed	Not fixed	0%	0%
25	2012-13	130	M.P.	Construction of ROB on in lieu of LCs 382 at KM 1158/7-8 on Unchehara-Lagargawan section in ET-MKP.	12.7879	13.7879	Not fixed	Not fixed	0%	0%
26	2012-13	132	M.P.	Construction of ROB on in lieu of LCs 276 at KM 904/3-4 on Kareli-Narsinghpur section in ET-MKP.	16.828	17.828	Not fixed	Not fixed	0%	0%
27	2012-13	134	M.P.	Construction of ROB on in lieu of LCs 278 at KM 906-7-8 on Narsinghpur-Ghatpindarai section in ET-MKP.	20.6584	21.6584	Not fixed	Not fixed	0%	0%
28	2012-13	136	M.P.	Construction of ROB on in lieu of LCs 299 at KM 954/0-1 on Sridham-Bikrampur section in ET-MKP.	9.0335	10.0335	Not fixed	Not fixed	0%	0%
29	2012-13	138	M.P.	Construction of ROB on in lieu of LCs 107/C at KM 1328/1-2 on Bargawan-Gondwali section in KTE-SGRL.	18.0714	19.0714	Not fixed	Not fixed	0%	0%
30	2012-13	140	M.P.	Construction of ROB on in lieu of LCs 105/C at KM 1321/0-1 on Majholi-Bargawan section in KTE-SGRL.	20.1063	21.1063	Not fixed	Not fixed	0%	0%
31	2012-13	144	M.P.	Construction of ROB on in lieu of LCs 8 at KM 714.19 on Mehidpur-Luni Richha section in KTT-NAD.	9.0165	10.0165	Not fixed	Not fixed	0%	0%
32	2012-13	146	M.P.	Construction of ROB on in lieu of LCs 20 at KM 734/12-13 on Luni Richha-Vikramgarh Alot section in KTT-NAD.	9.3764	10.3764	Not fixed	Not fixed	0%	0%
33	2012-13	142	RAJ.	Bharatpur: Reconstruction of new ROB at	13.6301	8.7398	Not fixed	Not fixed	5%	0%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				same alignment in lieu of existing damaged ROB.						
34	2001-02	177	M.P.	Chhola Road - ROB in lieu of L.C. No. 252/A & 252/B (kms 838/12-13, 837/11-12) between stations NSZ-UJN & BPL-UJN.	11.2644	15.2651	Completed	Completed	100%	100%
35	2003-04	178	M.P.	Katni - ROB in lieu of LC No. 356/A (Khirhani Phatak) at km 1081/11-12.	3.5176	16.20	Completed	Completed	100%	100%
36	2007-08	180	RAJ.	Gangapur City-Chhoti Odai - ROB in lieu of L.C. No. 180 @ Km 1096/8-10 at SH-21.	8.9557	4.43	Completed	Dec'15	100%	95%
37	2007-08	181	RAJ.	Dhaurmui Jaghina- Jajanpatti - ROB at LC No. 252-B @ Km 1222/8-10 at SH-24.	5.1232	4.45	Completed	Completed	100%	100%
38	2007-08	182	M.P.	Maihar Yard- ROB in lieu of LC No. 379 at Km 1144/4-6.	4.2734	18.33	Completed	Completed	100%	100%
39	2007-08	183	RAJ.	Ramganjmandi-Morak - ROB in lieu of LC No. 82 on SH at Km. 849/14-15.	8.4354	6.29	Completed	Mar'16	100%	5%
40	2008-09	184	M.P.	ROB in lieu of LC. No. 244 at kms 815/12-14 near Mandideep station in Bhopal-Itarsi section.	11.8402	10.9445	Completed	Completed	100%	100%
41	2008-09	185	RAJ.	ROB in lieu of L.C. No. 244 Between Sewar-Bharatpur at Km 1209/14-16.	6.8877	6.84	Completed	Completed	100%	100%
42	2008-09	186	RAJ.	ROB in lieu of L.C. No. 87 at Morak-Dabhadeh Km 858/8-10 in Kota-Nagda section.	8.9614	8.96	Completed	Dec'15	100%	90%
43	2009-10	187	M.P.	ROB in lieu of LC No. 264 near Salamatpur at (KM 871/36-872/2) on Bhopal-Bina section.	9.7237	10.0479	Completed	Completed	100%	100%
44	2010-11	188	M.P.	ROB in lieu of LC No. 63 at Guna-Bajrang Garh road(KM- 1094.440) on Guna-Ruthaiyai section.	7.8200	9.9300	Completed	Completed	100%	100%
45	2010-11	189	M.P.	ROB in lieu of LC No.237 (Budhani Phatak) KM - 768/30-32 on Itarsi-Bhopal section.	5.2722	24.1200	Completed	Completed	100%	100%
46	2010-11	190	M.P.	Ashoknagar - Special ramp type foot over bridge at LC No. 41 on BINA-GUNA	4.2900	6.2900	Completed	Sept'15	100%	80%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				section.						
47	2011-12	194	M.P.	ROB on Bina-Agasod rd in lieu of LC No.309/C/2E on Bina-Jhansi section and LC No.3-B/2 on Bina –Kota section(SWP).	9.4511	10.7513	Not fixed	Not fixed	0%	0%
48	2014-15	196	M.P.	ROB in lieu of LC No.271 (Vidisha) with LHS on Bhopal - Bina section.	15.7042	15.7042	Not fixed	Not fixed	0%	0%
49	2014-15	197	M.P.	ROB in lieu of LC No.2 (Birhuli yard) on JBP-MKP section.	15.0000	15.0000	Not fixed	Not fixed	0%	0%
<b>(B) ON RAILWAY COST</b>										
1	2011-12	69	RAJ.	Provision of limited height subway eliminate LC no. 27 UP&DN and LC No. 31 (3-Nos) .	3.1338	NA	Completed	Completed	100%	100%
2	2012-13	71		Kota-Nagda section: Provision of limited height subway in lieu of manned LC No. 1, 34, 29 up, 36, 9.	6.4677	NA	Mar'15	Mar'15	80%	60%
3	2012-13	72	M.P.	Bhopal Division: Provision of 7 LHS in lieu of unmanned level crossing nos. 20, 35, 67 in Bina-Ruthiyai section and 7, 8, 11, 16 in Guna-Gwalior section.	12.3383	NA	June'15	June'15	80%	50%
4	2013-14	73	M.P.	Kota-Nagda - Limited height subways in lieu of manned level crossing Nos.4,10 & 12 (3 Nos)	4.0154	NA	Mar'15	Mar'15	0%	0%
5	2011-12	76	M.P.	Elimination of manned LC No. 80, 84 and un-manned LC No. 90, 104, 115 by providing normal height subway/limited height subway at Ruthiyai - Maksi section in Bhopal division.(05-Nos)	4.5199	NA	Completed	Completed	100%	100%
6	2012-13	78		Kota-Nagda section: Provision of limited height subway in lieu of manned LC No. 41, 42,48, 49, 55, 79	7.3634	NA	Mar'15	Mar'15	100%	100%
7	2012-13	79	M.P.	Bhopal Division: Provision of 14 LHS in lieu of unmanned level crossing nos. 85,92,93, 95,96,	24.2731	NA	Mar'15	Mar'15	85%	60%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				97,103,107,120,141,143,154,156,160 in Ruthiyai -Maksi section.						
8	2013-14	80	M.P.	Kota-Nagda - Limited height subways in lieu of manned level crossing Nos.13,15 & 16 (3 Nos)	4.0452	NA	Feb'16	Feb'16	10%	0%
9	2011-12	82	M.P.	Elimination of manned LC No. 3 on Guna-Gwalior section and un-manned LC No. 33, 70 on Ruthiyai - Bina section by providing normal height subway/limited height subway in Bhopal division.(3-Nos)	2.7260	NA	Completed	Completed	100%	100%
10	2011-12	83		Construction of limited height subway in lieu of LC between Malarna-Bayana sectionm LC no. 167, 169, 183-B, 194 & 204 (5-Nos) by pushing method.	5.8269	NA	Completed	Completed	100%	100%
11	2012-13	85	RAJ.	Kota-Mathura section: Provision of limited height subway in lieu of manned LC No. 221 , 225, 229, 229A, 237.	5.3460	NA	Completed	Mar'15	100%	90%
12	2012-13	86	M.P.	Bhopal Division: Provision of 9 LHS in lieu of unmanned level crossing nos. 29,33,35,37,47, 49,52,55,92 in Guna-Gwalior section.	16.3364	NA	June'15	June'15	90%	55%
13	2013-14	87	M.P.	Kota-Nagda - Limited height subways in lieu of manned LC Nos. 18,23 & 24(3 Nos)	4.2106	NA	Feb'16	Feb'16	0%	0%
14	2011-12	88	M.P.	Elimination of un-manned LC No. 186, 187, 188, 189-A on Talwadia - BIR spur line by providing normal height subway/limited height subway in Bhopal division.(4-Nos).	3.3942	NA	Completed	Completed	100%	100%
15	2012-13	90	M.P.	Katni-Singrauli section: Provision of Limited Height Subways in lieu of unmanned LCs No.8,16,44, 53 & 62.	6.3123	NA	Mar'15	Mar'15	80%	60%
16	2013-14	91	M.P.	Katni-Singrauli - Limited height subways in lieu of manned level crossing Nos.13, 76 28, 65 (4 Nos)	6.3058	NA	Dec'15	Dec'15	50%	25%



SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
17	2012-13	93	M.P.	Provision of Limited Height Subways in lieu of manned LCs at LC 240 KM 824/5-6 and LC 291 at Km 933/1-2 on ET-JBP section	3.8308	NA	May'15	May'15	60%	45%
18	2012-13	94	RAJ.	Kota-Chittaurgarh section:Provision of limited height subway in lieu of unmanned LC 03,10,17,18,31,40, 70,103 and LC No02 &03 in GQL"N" -GQL"W' section.	9.2276	NA	Mar'15	Mar'15	80%	40%
19	2013-14	95	M.P.	Bina-Katni - Limited height subways in lieu of manned level crossing Nos.75,91, 93 & 106 (4 Nos)	6.6795	NA	Jan'16	Jan'16	0%	0%
20	2012-13	97	RAJ.	Nagda-Kota section:Provision of limited height subway in lieu of manned LC 02. 29Dn,66	3.3261	NA	Completed	Completed	100%	100%
21	2013-14	98	M.P.	Bina-Ruthiyai - Limited height subways in lieu of un-manned level crossings 99,116,30,39,29 (4 Nos)	8.7871	NA	Feb'15	Feb'15	40%	10%
22	2012-13	100	M.P.	Provision of Limited Height Subways in lieu of manned LCs No.47 at KM 1105/2-3 on BIN-KTE section.	3.0486	NA	Mar'15	Mar'15	25%	0%
23	2012-13	101	M.P.	Bhopal Division: Provision of LHS in lieu of unmanned level crossing nos.23 (in lieu of 6 closed), 14, 18, 20 in Guna-Gwalior section.	9.2324	NA	June'15	June'15	50%	0%
24	2013-14	102	M.P.	Bina-Mungaoli - Limited height subways in lieu of manned level crossings 9,10,11,14 (4Nos)	6.9949	NA	Feb'16	Feb'16	0%	0%
25	2012-13	104	M.P.	Provision of Limited Height Subways in lieu of manned LCs No.83 at KM 1169/3-4 on BIN-KTE section.	3.0385	NA	Completed	Mar'15	100%	75%
26	2012-13	105	M.P.	Bhopal Division: Provision of LHS in lieu of unmanned level crossing nos. 102,108,111, 162, 171 in Ruthiyai -Maksi	11.9322	NA	Completed	Completed	100%	100%

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1	2	3	4	5	6	7	8	9	10	11
				section and LC 190 in Talvadia-Bir section.						
27	2013-14	106		Kota-Nagda - Limited height subways in lieu of manned level crossing Nos.25,26 & 30 (3 Nos)	4.131	NA	Feb'16	Feb'16	0%	0%
28	2012-13	108	M.P.	Provision of Limited Height Subways in lieu of manned LCs No.114 at KM 1234/4-5 on BIN-KTE section.	3.5322	NA	Completed	Mar'15	100%	75%
29	2012-13	109	M.P.	Bhopal Division: Provision of 26 LHS in lieu of unmanned level crossing nos. 25, 27, 28, 57, 61, 115, 118, 119, 66, 67, 70, 71, 77, 80, 84, 75, 79, 82, 96, 99, 102, 103, 39, 44, 50, 64 in Guna-Gwalior section.	40.6985	NA	June'15	June'15	20%	0%
30	2013-14	110	M.P.	Kota-Nagda - Limited height subways in lieu of manned level crossing Nos.39, 45 & 46X (3 Nos)	4.1428	NA	Mar'16	Mar'16	70%	35%
31	2012-13	112	M.P.	Bhopal Division: Provision of RUB in lieu of unmanned level crossing nos.185 in Talvadia-Bir section, 69 in Bina-Rithiyai section, 88, 129, 176 and 185 in Ruthiyai-Maksi section and 09 and 10 in Guna-Gwalior section by relieving girder.	6.2081	NA	Mar'15	Mar'15	90%	75%
32	2013-14	113	M.P.	Kota-Nagda - Limited height subways in lieu of manned level crossing Nos.52 & 54 (2 Nos)	2.7309	NA	Feb'15	Feb'15	0%	0%
33	2013-14	115	M.P.	Itarsi-Jabalpur - Limited height subways in lieu of manned level crossing Nos.277 & 259 (2 Nos)	3.6250	NA	Jan'16	Jan'16	50%	0%
34	2013-14	117	M.P.	Bina-Katni - Limited height subways in lieu of manned level crossing Nos.14, 49 & 57 (3Nos)	4.8501	NA	Jan'16	Jan'16	0%	0%
35	2013-14	119	M.P.	Mungaoli-Pipraigaon - Limited height subways in lieu of manned level crossings 15,16,17,19,23(5 Nos)	9.4988	NA	Feb'16	Feb'16	10%	0%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
36	2013-14	121	M.P.	Pipraigaon-Ashoknagar - Limited height subways in lieu of manned level crossings 28,32,36,38(4 Nos)	7.0994	NA	Feb'16	Feb'16	0%	0%
37	2013-14	123	RAJ.	Kota-Nagda - Limited height subways in lieu of manned level crossing Nos.59, 61 & 62 (3Nos)	4.0452	NA	Mar'15	Mar'15	0%	0%
38	2013-14	125	RAJ.	Kota-Nagda - Limited height subways in lieu of manned level crossing Nos.63, 64 & 68 (3Nos)	3.9559	NA	June'15	June'15	40%	0%
39	2013-14	127	RAJ.	Kota-Nagda - Limited height subways in lieu of manned level crossing Nos.69, 70 & 71 (3Nos)	4.1047	NA	Mar'15	Mar'15	40%	5%
40	2013-14	129	M.P.	Satna-Rewa - Limited height subways in lieu of manned level crossing Nos.4,6& 14 (3Nos)	5.0950	NA	Mar'15	Mar'15	0%	0%
41	2013-14	131	M.P.	Jabalpur-Manikpur - Limited height subways in lieu of manned level crossing Nos.383 & 384 (2 Nos)	3.6201	NA	Mar'15	Mar'15	50%	15%
42	2013-14	133	M.P.	Ashoknagar-Shahdora - Limited height subways in lieu of manned level crossings 43,44,48 (3 Nos)	5.4754	NA	Feb'16	Feb'16	40%	0%
43	2013-14	135	M.P.	Ashoknagar-Guna - Limited height subways in lieu of manned level crossings 49,50,53,54(4 Nos)	7.2935	NA	Feb'16	Feb'16	40%	0%
44	2013-14	137	RAJ.	Kota-Nagda - Limited height subways in lieu of manned level crossing Nos.74, 78 & 81 (3Nos)	3.9654	NA	Feb'15	Feb'16	40%	0%
45	2013-14	139	RAJ.	Kota-Nagda - Limited height subways in lieu of manned level crossing Nos.84, 85 & 97 (3Nos)	4.1493	NA	Mar'15	Mar'15	0%	0%
46	2013-14	141	RAJ.	Kota-Gangapur - Limited height subways in lieu of manned level crossing Nos.115, 117 & 118 (3Nos)	4.0866	NA	Feb'15	Feb'15	0%	0%

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1	2	3	4	5	6	7	8	9	10	11
47	2013-14	143	M.P.	Itarsi-Jabalpur - Limited height subways in lieu of manned level crossing Nos.305 & 307 (2 Nos)	3.6805	NA	Jan'16	Jan'16	0%	0%
48	2013-14	145	M.P.	Jabalpur-Katni - Limited height subways in lieu of manned level crossing Nos.325 & 320 (2 Nos)	3.6923	NA	Jan'16	Jan'16	10%	0%
49	2013-14	147	M.P.	Guna-Ruthiyai - Limited height subways in lieu of manned level crossings 65, 68, 71, 72 (4Nos)	7.6683	NA	Feb'16	Feb'16	40%	0%
50	2013-14	148	M.P.	Bhopal-Sumer - Limited height subways in lieu of manned level crossings 265, 268,269, 273,274 (5Nos)	12.001	NA	Mar'16	Mar'16	0%	0%
51	2013-14	149	RAJ.	Kota-Gangapur - Limited height subways in lieu of manned level crossing Nos.122 & 123 (2 Nos)	2.7057	NA	Mar'15	Mar'15	0%	0%
52	2013-14	150	RAJ.	Kota-Gangapur - Limited height subways in lieu of manned level crossing Nos.126, 128 & 133 (3 Nos)	4.0363	NA	Feb'15	Feb'15	0%	0%
53	2013-14	151	RAJ.	Kota-Gangapur - Limited height subways in lieu of manned level crossing Nos.138, 141 & 144 (3 Nos)	4.1958	NA	Mar'15	Mar'15	30%	0%
54	2013-14	152	RAJ.	Kota-Gangapur - Limited height subways in lieu of manned level crossing Nos.148 & 153 (2 Nos)	2.8196	NA	Feb'15	Feb'15	0%	0%
55	2013-14	153	RAJ.	Gangapur-Mathura - Limited height subways in lieu of manned level crossing Nos.188, 196 & 198 (3 Nos)	4.1536	NA	Mar'15	Mar'15	0%	0%
56	2013-14	154	RAJ.	Gangapur-Mathura - Limited height subways in lieu of manned level crossing Nos.208X, 209 & 211 (3Nos)	4.2232	NA	Feb'15	Feb'15	0%	0%
57	2013-14	155	RAJ.	Gangapur-Mathura - Limited height subways in lieu of manned level crossing Nos.217, 222 & 226 (3 Nos)	4.2697	NA	Mar'15	Mar'15	0%	0%

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1	2	3	4	5	6	7	8	9	10	11
58	2013-14	156	RAJ.	Gangapur-Mathura - Limited height subways in lieu of manned level crossing Nos.227, 231 & 232 (3 Nos)	4.1589	NA	Feb'15	Feb'15	0%	0%
59	2013-14	157	RAJ.	Gangapur-Mathura - Limited height subways in lieu of manned level crossing Nos.239, 242 & 246 (3 Nos)	4.1901	NA	Mar'15	Mar'15	0%	0%
60	2013-14	158	RAJ.	Gangapur-Mathura - Limited height subways in lieu of manned level crossing Nos.248, 250 & 254 (3 Nos)	4.0719	NA	Feb'15	Feb'15	30%	0%
61	2013-14	159	RAJ.	Gangapur-Mathura - Limited height subways in lieu of manned level crossing Nos.257 & 262 (2Nos)	2.9315	NA	Mar'15	Mar'15	0%	0%
62	2013-14	160	RAJ.	Gangapur-Mathura - Limited height subways in lieu of manned level crossing Nos.264 & 265 (2 Nos)	2.9503	NA	Feb'15	Feb'15	0%	0%
63	2013-14	161	RAJ.	Kota-Chittor - Limited height subways in lieu of manned level crossing Nos.80,90, 94, 105 & 107 (5 Nos)	4.1857	NA	Mar'16	Mar'16	0%	0%
64	2013-14	162	RAJ.	Kota-Ruthiyai - Limited height subways in lieu of manned level crossing Nos.4,6 & 7 (3 Nos)	3.7372	NA	Mar'15	June'15	100%	55%
65	2013-14	163	RAJ.	Kota-Ruthiyai - Limited height subways in lieu of manned level crossing Nos.11, 17 & 18 (3 Nos)	3.6112	NA	Mar'16	Mar'16	5%	0%
66	2013-14	164	RAJ.	Kota-Ruthiyai - Limited height subways in lieu of manned level crossing Nos.77, 79 & 82 (3 Nos)	3.3343	NA	Mar'16	Mar'16	50%	0%
67	2013-14	165	RAJ.	Kota-Chittor - Limited height subways in lieu of UM level crossings 2,6,8,13,14, 20, 24, 29, 43, 49,50,51,55, 62,68,69,97,108 (18Nos)	15.332	NA	Mar'16	Mar'16	0%	0%
68	2013-14	166	RAJ.	Kota-Ruthiyai - Limited height subways in lieu of UM level crossings 9, 12, 29, 31, 32,	9.4388	NA	Mar'16	Mar'16	30%	0%

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1	2	3	4	5	6	7	8	9	10	11
				49, 68, 80, 88 (9Nos)						
69	2013-14	167	M.P.	Gulabganj-Ganj Basoda - Limited height subways in lieu of manned level crossings 276, 279, 281, 284, 285(5 Nos)	11.7237	NA	Mar'16	Mar'16	0%	0%
70	2013-14	168	M.P.	Itarsi-Bhopal - Limited height subways in lieu of manned level crossings 228,229,230,235(4 Nos)	9.8236	NA	Mar'16	Mar'16	0%	0%
71	2013-14	169	M.P.	Bareth-Bina - Limited height subways in lieu of level crossings 295,296,297,299,302,305(6 Nos)	15.0757	NA	Mar'16	Mar'16	0%	0%
72	2013-14	170	M.P.	Itarsi-Bhopal - Limited height subways in lieu of manned level crossings 238,239,242,243,246 (5 Nos)	11.0451	NA	Mar'16	Mar'16	0%	0%
73	2013-14	171	M.P.	Basoda-Bareth - Limited height subways in lieu of manned level crossings 289,290,291,292 (4Nos)	8.9942	NA	Mar'16	Mar'16	0%	0%
74	2013-14	172	M.P.	Khandwa-Harda - Limited height subways in lieu of manned level crossings 181,197,200,203(4Nos)	7.9271	NA	Mar'16	Mar'16	15%	0%
75	2013-14	173	M.P.	Harda-Itarsi - Limited height subways in lieu of manned level crossings 209, 215, 219, 221(4 Nos)	7.8110	NA	Mar'16	Mar'16	0%	0%
76	2013-14	174	M.P.	Ruthiyai-Maksi/Guna-Gwalior - Limited height subways in lieu of manned level crossings 5 , 12 (2Nos)	3.5572	NA	Feb'15	Feb'15	100%	90%
77	2013-14	175	M.P.	Chachora Binaganj-Pachor Road - Limited height subways in lieu of manned level crossings 114, 121, 122, 134 (4 Nos)	4.7129	NA	Feb'15	Feb'15	50%	40%
78	2013-14	176	M.P.	Sinduriya Kachari-Shajapur - Limited height subways in lieu of manned level crossings 158, 164, 167 (3 Nos)	4.1254	NA	Feb'15	Feb'15	40%	0%
79	2007-08	179	M.P.	Katni-Singrauli - RUB in lieu of L-xing 99/C, 96/C, 82/C, 63/C, 31/C, 36/C, 34/C, 33/C,	3.1579	NA	Completed	Completed	100%	100%

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1	2	3	4	5	6	7	8	9	10	11
				32/C, (9 Nos)						
80	2010-11	191	RAJ.	KOTA Divn: Construction of limited height sub way in lieu of LC bet. Malarna-Bayana Section, LC 168, 181, 182, 183, 186, 187 ( 6 nos)	4.9577	NA	Completed	Completed	100%	100%
81	2010-11	192	M.P.	JBP Divn: provision of RUBs in lieu of manned LC No. 337 & 394 on Jabalpur-Manikpur section. (2 Nos)	3.2871	NA	Mar'15	Mar'15	60%	10%
82	2010-11	193	M.P.	BPL Divn: Provision of RUBs in lieu of manned LC Nos. 12, 60, 70A, 74 on Bina-Maksi section, manned LC No. 109, unmanned LCs 31 & 41 on Guna-Gwalior section. (7 Nos)	4.7781	NA	Completed	Mar'15	100%	85%
<b>LAW BOOK WORKS</b>										
1	2013-14	125	M.P.	BPL Divn : Provision of LHS in lieu of manned level crossing No. 182 in KNW - ET sec.	2.3608	NA	NF	NF	0%	0%
2	2013-14	126	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 202 in KNW - ET sec..	2.4801	NA	Mar'16	Mar'16	0%	0%
3	2013-14	127	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 205 in KNW - ET sec..	2.3608	NA	NF	NF	0%	0%
4	2012-13	128	M.P.	Provision of Limited Height Subways in lieu of manned LCs No.393 at KM 1197/4 on JBP-MKP section.	2.6971	NA	Nov'14	Mar'15	100%	75%
5	2013-14	129	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 207 in KNW - ET sec..	2.3608	NA	Mar'16	Mar'16	0%	0%
6	2013-14	130	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 211in KNW - ET sec..	2.4801	NA	NF	NF	0%	0%

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1	2	3	4	5	6	7	8	9	10	11
7	2013-14	131	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 213 in KNW - ET sec..	2.4801	NA	NF	NF	0%	0%
8	2013-14	132	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 214 in KNW - ET sec..	2.3608	NA	Oct'15	Oct'15	0%	0%
9	2013-14	133	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 216 in KNW - ET sec..	2.4801	NA	NF	NF	0%	0%
10	2013-14	134	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 217 in KNW - ET sec..	2.3608	NA	NF	NF	0%	0%
11	2013-14	135	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 79 in KNW-ET sec..	1.9191	NA	Mar'15	Mar'15	40%	0%
12	2013-14	136	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 128 in RTA - MKC sec..	1.9191	NA	Nov'14	Mar'15	100%	50%
13	2013-14	137	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 139 in RTA - MKC sec..	1.9191	NA	Nov'14	Mar'15	100%	60%
14	2013-14	138	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 144 in RTA - MKC sec..	1.9191	NA	Nov'14	Mar'15	100%	55%
15	2013-14	139	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 150 in RTA - MKC sec..	1.9191	NA	Mar'15	Mar'15	50%	0%
16	2013-14	140	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 157 in RTA - MKC sec..	1.9191	NA	May'15	May'15	50%	0%
17	2013-14	141	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 166 in RTA - MKC sec..	1.9191	NA	Completed	Completed	100%	100%



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1	2	3	4	5	6	7	8	9	10	11
18	2013-14	142	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 168 in RTA - MKC sec..	1.9191	NA	May'15	May'15	50%	0%
19	2013-14	143	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 178 in RTA - MKC sec..	1.9191	NA	May'16	May'16	0%	0%
20	2013-14	144	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 179 in RTA - MKC sec..	1.9191	NA	Completed	Mar'15	100%	50%
21	2013-14	145	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 181 in RTA - MKC sec..	1.9191	NA	Dec'15	Dec'15	0%	0%
22	2013-14	146	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 188 in RTA - MKC sec..	1.9191	NA	Dec'15	Dec'15	0%	0%
23	2013-14	147	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 206 in KNW - ET sec..	2.3608	NA	NF	NF	0%	0%
24	2007-08	148	M.P.	Malkhedi-Agasod - RUB in lieu of LC. No. 310/B, 310/C. (2 Nos)	0.9927	NA	Completed	Completed	100%	100%
25	2009-10	149	M.P.	Katni-RUB at km 1080/6-7 as pre cast RCC segmental box. (01 Nos)	2.4701	NA	Completed	Completed	100%	100%
26	2009-10	150	M.P.	Mahadevkhedi- Karod station- Elimination of manned level crossing No. 312/A at Km 985/4-5 by providing normal height subway/RUB on Bhopal D (01 Nos)	1.2171	NA	Feb'15	June'15	100%	40%
27	2009-10	151	RAJ.	Kota - Ruthiyai section - Construction of road under bridge in lieu of LC no 64 and 65 at KM 113/0-1 (01 Nos)	0.5652	NA	Completed	Completed	100%	100%
28	2010-11	152	RAJ.	Provision of 3 Nos. Limited Height Subways on unmanned LCs No. 26, 52 & 54 on Kota-COR section. (3Nos)	2.1444	NA	Completed	Completed	100%	100%
29	2010-11	153	RAJ.	KTT-COR: Provision of limited height	1.5006	NA	Completed	Completed	100%	100%

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1	2	3	4	5	6	7	8	9	10	11
				subway in lieu of LC No.56& 86.(OOT)						
30	2010-11	154	RAJ.	KOTA Divn: Bayana- Providing RUB near 'B' cabin on Kota-Mathura section.	2.3827	NA	Feb'14	Feb'14	100%	100%
31	2010-11	155	M.P.	Provision of 3 Nos. Limited Height Subways on unmanned LCs No.7 , 22 & 29 on Katni-Singrauli section. (3Nos)	1.9286	NA	Completed	Completed	100%	100%
32	2010-11	156	M.P.	Provision of 2 Nos. Limited Height Subways in lieu of manned LCs No.334 at Km 1023/6-7 and 335 at Km 1026/6-7 on Jabalpur-Katni section. (2Nos)	2.1802	NA	Dec'14	Dec'14	20%	0%
33	2010-11	157	RAJ.	Provision of Limited Height Subway in lieu of manned LC No. 83 on Kota-Nagda section. (1Nos)	1.1672	NA	Completed	Completed	100%	100%
34	2010-11	158		Provision of 2 Nos. Limited Height Subway in lieu of manned LC No. 10 'C' and unmanned LC No.86 'C' on Kota-Ruthiyai section. (2Nos)	1.4698	NA	Completed	Completed	100%	100%
35	2010-11	159	RAJ.	Provision of 3 Nos. Limited Height Subways on unmanned LCs No. 42, 60 & 66 on Kota-Ruthiyai section. (3Nos)	1.5077	NA	Completed	Completed	100%	100%
36	2010-11	160	RAJ.	Provision of 3 Nos. Limited Height Subways on unmanned LCs No. 71, 91& 111 on Kota-COR section. (3Nos)	2.1111	NA	Completed	Completed	100%	100%
37	2010-11	161	RAJ.	Provision of 2 Nos. Limited Height Subways-on unmanned LC No. 98'A' and common LHS in lieu of LC No. 115 & 116 on Kota-COR section. (2 Nos)	1.4783	NA	Completed	Completed	100%	100%
38	2011-12	162	M.P.	Provision of 2 Nos. Limited Height Subways in lieu of unmanned LCs No. 81& 97 on Katni-Singrauli section	1.5643	NA	Completed	Completed	100%	100%
39	2011-12	163	M.P.	Provision of RUB (RHS) near LC No 26/C at km 1123/8-9 bet Pipraigaon-ORR in Guna sub division for closing LC no 26/C	0.7014	NA	Completed	Feb'14	100%	10%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
40	2011-12	164	M.P.	Iarsi-Bhopal Sec: Proposed construction of RUB (LHS) in lieu of LC No. 236 at Km. 766/26-28.	1.9060	NA	Jan'14	Jan'14	40%	0%
41	2011-12	165	RAJ.	Bayana-Bharatpur Section:-Closing of L.C. gates no. 223 'C' Class (Engg) Single Gatemen, TVU=4200 by making roads & provision Limited height sub way	1.6085	NA	Completed	Completed	100%	100%
42	2011-12	166	M.P.	Bhopal Division: Provision of RUB near near LC No.72 at KM 1215/08-09 between Khajuri-Parakheda in Guna-Gwalior section.	0.6618	NA	June'15	June'15	5%	0%
43	2011-12	167	M.P.	Bhopal Division: Provision of RUB near near LC No.90 A at KM 1260/06-07 between Mohana-Ghatigaon in Guna-Gwalior section.	0.6618	NA	Completed	June'15	100%	50%
44	2011-12	168	M.P.	Provision of 3 Nos. Limited Height Subways in lieu of unmanned LCs No. 17,18 & 26 on Katni-Singrauli section.	2.3430	NA	Completed	Completed	100%	100%
45	2011-12	169	M.P.	Provision of 3 Nos. Limited Height Subways in lieu of unmanned LCs No. 27, 37,38 & 47 on Katni-Singrauli section.	2.3572	NA	Mar'15	Mar'15	65%	45%
46	2011-12	170	M.P.	Provision of 3 Nos. Limited Height Subways in lieu of unmanned LCs No. 58,60 & 61 on Katni-Singrauli section.	2.3536	NA	June'15	June'15	60%	25%
47	2011-12	171	M.P.	Provision of 2 Nos. Limited Height Subways in lieu of unmanned LCs No. 69& 78 on Katni-Singrauli section.	1.5522	NA	Completed	Completed	100%	100%
48	2011-12	172	M.P.	Provision of Limited Height Subways in lieu of manned LCs No.280 at Km 910/1-2 on Itarsi-Jabalpur section.	1.4472	NA	Jan'15	Jan'15	50%	5%
49	2011-12	173	M.P.	Provision of Limited Height Subways in lieu of manned LCs No 297 at Km 947/1-2 on Itarsi-Jabalpur section.	1.4418	NA	Jan'15	Jan'15	0%	0%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
50	2011-12	174	M.P.	Provision of Limited Height Subways in lieu of manned LCs No.282 at Km 916/1-2 on Itarsi-Jabalpur section.	1.3539	NA	Completed	June'15	100%	50%
51	2011-12	175	M.P.	Provision of Limited Height Subways in lieu of manned LCs No.233 at Km 799/9-10 on Itarsi-Jabalpur section.	1.3770	NA	Completed	Completed	100%	100%
52	2011-12	176	M.P.	Provision of Limited Height Subways in lieu of manned LCs No.248 at Km 842/1-2 on Itarsi-Manikpur section.	1.3539	NA	Completed	Completed	100%	100%
53	2011-12	177	M.P.	Provision of Limited Height Subways near LCs No. 116 at KM 1030/9 on Katni-New Katni Jn section.	1.9994	NA	May'15	June'15	40%	0%
54	2011-12	178	M.P.	Provision of Limited Height Subways in lieu of manned LCs No.247 at Km 840/1-2 on Itarsi-Jabalpur section.	1.4802	NA	Completed	Completed	100%	100%
55	2011-12	179	RAJ.	Bayana-Bharatpur Section:-Closing of L.C. gates no. 218 'B' Class (Engg) Double Gatemen,TVU=79456 by making roads & provision Limited height sub way	1.7301	NA	Completed	June'15	100%	55%
56	2011-12	180	RAJ.	Bayana-Bharatpur Section:-Closing of L.C. gates no. 236'C' Class (Engg) Single Gatemen,TVU=3245 by making roads & provision Limited height sub way	1.7477	NA	Completed	Completed	100%	100%
57	2011-12	181	RAJ.	Bayana-Bharatpur Section:-Closing of L.C. gates no. 235 'C' Class (Engg) Single Gatemen,TVU=5344 by making roads & provision Limited height sub way	1.6795	NA	Dec'15	Dec'15	15%	0%
58	2011-12	182	RAJ.	Bayana-Bharatpur Section:-Closing of L.C. gates no. 247'C' Class (Engg) Single Gatemen,TVU=2205 by making roads & provision Limited height sub way	1.6927	NA	Completed	Completed	100%	100%
59	2011-12	183	RAJ.	Bayana-Bharatpur Section:-Closing of L.C. gates no. 251 'C' Class (Engg) Single	1.9917	NA	Completed	Completed	100%	100%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				Gatemen,TVU=2024 by making roads & provision Limited height sub way						
60	2012-13	184	M.P.	Bina-Katni : Provision of Limited Height Subways in lieu of manned LCs No.97 at Km 1199/7-8 on BIN-KTE section.	1.3823	NA	Mar'15	Mar'15	50%	5%
61	2012-13	185	M.P.	Bhopal Division : Proposal for draining out stagnant water under RUB provided in lieu of LC no. 186 and 187 under ADEN Shajapur section .	0.2174	NA	June'15	June'15	0%	0%
62	2012-13	186	M.P.	Bhopal Division : Protection work at LC no. 132 between km 1212 / 02-04 in RTA-MKC section and near LC no. 52 and 65 in BIN - RTA section .	0.3718	NA	Dec'14	Dec'14	0%	0%
63	2012-13	187	M.P.	Bhopal Division : Improvement of drainage system at various RUBs in ET-KNW section .	0.3371	NA	Mar'15	Mar'15	0%	0%
64	2012-13	188	M.P.	Bhopal Division : Provision of RUB/LHS in lieu of manned level crossing no. 116 in Guna - Gwalior section under ADEN Shivpuri Sub division.	1.6936	NA	Completed	Mar'15	100%	55%
65	2012-13	189	RAJ.	KOTA-GGC Section: Construction of 4.0x4.0M size limited height subway in lieu of manned LC No: 157 in between Ranthambhor-Makholi stations by cut & cover method.	1.4196	NA	Completed	Completed	100%	100%
66	2012-13	190	RAJ.	KOTA-GGC Section: Construction of 4.0x4.0M size limited height subway in lieu of manned LC No: 158 in between Ranthambhor-Makholi stations by cut & cover method.	1.4594	NA	Completed	Completed	100%	100%
67	2012-13	191	RAJ.	KOTA-GGC Section: Construction of 4.0x4.0M size limited height subway in lieu of manned LC No: 160 in between	1.4213	NA	Completed	Completed	100%	100%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				Ranthambhor-Makholi stations by cut & cover method.						
68	2012-13	192	M.P.	Katni-Singrauli section: Provision of 2 Nos. Limited Height Subways in lieu of manned LCs No. 56 KM 1229/1-2 & 57 KM 1232/9-10 on KTE-SGRL section.	1.9991	NA	Completed	Mar'15	100%	90%
69	2012-13	193	M.P.	Katni-Singrauli section: Provision of 2 Nos. Limited Height Subways in lieu of manned LCs No. 3 KM 1092/8-9 & 21 KM 1119/8-9 on KTE-SGRL section.	1.9991	NA	Completed	Completed	100%	100%
70	2012-13	194	M.P.	Katni-Singrauli section: Provision of 2 Nos. Limited Height Subways in lieu of manned LCs No. 86 KM 1282/1-2 & 87 KM 1284/3-4 on KTE-SGRL section.	1.9991	NA	Completed	Completed	100%	100%
71	2012-13	195	M.P.	Katni-Singrauli section: Provision of 2 Nos. Limited Height Subways in lieu of manned LCs No. 98 KM 1309/8-9 & 100 ,KM 1313/3-4 on KTE-SGRL section.	1.9991	NA	Completed	Completed	100%	100%
72	2012-13	196	M.P.	Katni-Singrauli section: Provision of 1 Nos. Limited Height Subways in lieu of manned LCs No. 109 KM 1331/2-3 on KTE-SGRL section.	0.9995	NA	Completed	Completed	100%	100%
73	2012-13	197	M.P.	Itarsi-Jabalpur: Provision Limited Height Subways in lieu of manned LCs No.255 at Km 855/8-9 on ET-JBP section.	1.5679	NA	Completed	Completed	100%	100%
74	2012-13	198	M.P.	Itarsi-Jabalpur: Provision of Limited Height Subways in lieu of manned LCs No.296 at Km 945/1-2 on ET-JBP section.	1.4998	NA	June'15	June'15	50%	5%
75	2012-13	199	M.P.	Jabalpur-Katni: Provision of Limited Height Subways in lieu of manned LCs No.352 at Km 1073/8-9 on JBP-KTE section.	1.5294	NA	Mar'15	Mar'15	100%	50%
76	2012-13	200	M.P.	Jabalpur-Katni: Provision of Limited Height Subways in lieu of manned LCs No.369 at	1.5217	NA	Feb'15	Mar'15	100%	50%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion 'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				Km 1118/ 2-3 on JBP-MKP section.						
77	2012-13	201	M.P.	Jabalpur-Manikpur :Provision of Limited Height Subways in lieu of manned LCs No.364 at Km 1105/9-10 on JBP-MKP section.	1.4931	NA	Jan'15	Mar'15	50%	5%
78	2012-13	202	M.P.	Jabalpur-Manikpur :Provision of Limited Height Subways in lieu of manned LCs No.363 at Km 1103/4-5 on JBP-MKP section.	1.4931	NA	Completed	Mar'15	100%	75%
79	2012-13	203	M.P.	Jabalpur-Manikpur : Provision of Limited Height Subways in lieu of manned LCs No 359 at Km 1095/3-4 on JBP-MKP section.	1.4931	NA	Dec'14	Dec'14	60%	5%
80	2012-13	204	M.P.	Jabalpur-Manikpur : Provision of Limited Height Subways in lieu of manned LCs No 356 at Km 1081/5-6 on JBP-MKP section.	1.5880	NA	Jan'15	Jan'15	50%	10%
81	2012-13	205	M.P.	Bina-Katni : Provision of Limited Height Subways in lieu of manned LCs No.73 at Km 1147/3-4- on BIN-KTE section.	1.4791	NA	Completed	Feb'15	100%	75%
82	2012-13	206	RAJ.	Bina-Katni : Provision of Limited Height Subways in lieu of manned LCs No.92 at Km 1192/1-2 on BIN-KTE section.	1.4690	NA	Mar'15	Mar'15	10%	0%
83	2012-13	207	M.P.	Bina-Katni : Provision of Limited Height Subways in lieu of manned LCs No.48 at Km 1106/5-6 on BIN-KTE section.	1.6046	NA	Completed	Completed	100%	95%
84	2012-13	208	M.P.	Bina-Katni : Provision of Limited Height Subways in lieu of manned LCs No.46 at Km 1100/9-10 on BIN-KTE section.	1.5168	NA	Mar'15	Mar'15	50%	5%
85	2012-13	209	M.P.	Bina-Katni : Provision of Limited Height Subways in lieu of manned LCs No.44 at Km 1096/4-5 on BIN-KTE section.	1.5525	NA	Completed	Mar'15	100%	100%
86	2012-13	210	M.P.	Bina-Katni : Provision of Limited Height Subways in lieu of manned LCs No.105 at Km 1214/9-10 on BIN-KTE section.	1.4492	NA	June'15	June'15	0%	0%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
87	2012-13	211	M.P.	Bina-Katni : Provision of Limited Height Subways in lieu of manned LCs No.41 at Km 1089/9-10 on BIN-KTE section.	1.5440	NA	Completed	Nov'13	100%	100%
88	2012-13	212	M.P.	Bina-Katni : Provision of Limited Height Subways in lieu of manned LCs No.90 at Km 1188/7-8 on BIN-KTE section.	1.5525	NA	Dec'14	Dec'14	50%	10%
89	2012-13	213	M.P.	Bina-Katni : Provision of Limited Height Subways in lieu of manned LCs No.88 at Km 1184/6-7 on BIN-KTE section.	1.6080	NA	Feb'15	June'15	100%	50%
90	2012-13	214	M.P.	Bina-Katni : Provision of Limited Height Subways in lieu of manned LCs No.110 at Km 1226/0-1 BIN-KTE section.	1.4821	NA	June'15	June'15	0%	0%
91	2012-13	215	RAJ.	KTT-COR Section: Construction of 4.0x3.85M size limited height subway in lieu of manned LC No: 36 in between Thalera-Bundi stations by cut & cover method.	1.1595	NA	Completed	Completed	100%	100%
92	2012-13	216	M.P.	Guna-GWL Sec: Provision of diversion road for connection between nearest RUB/LHS/ROB and manned/Unmanned Level crossing to close LC Nos.- 30,45,48,51,58,62,63,76, of (GUN-GWL)section	2.4918	NA	June'15	June'15	5%	0%
93	2012-13	217	M.P.	Provision of diversion road for connection between nearest RUB/LHS/ROB and manned/Unmanned Level crossing to close LC Nos.42 (BIN-RTA section),94 (RTA-MKC section) 19,23,91,92A (GUN-GWL)section.	1.9988	NA	June'15	June'15	5%	0%
94	2012-13	218	M.P.	Guna-GWL Sec: Provision of diversion road for connection between nearest RUB/LHS/ROB and manned/Unmanned Level crossing to close LC Nos.81,120	0.7928	NA	June'15	June'15	5%	0%



SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				(GUN-GWL)section.						
95	2012-13	219	RAJ.	KTT-RTA Section: Construction of 4.0x4.0M size limited height subway in lieu of manned LC No: 40 in between Baran-Chajawa stations by cut & cover method.	1.2167	NA	Completed	Completed	100%	100%
96	2012-13	220	M.P.	KTT-RTA Section: Construction of 4.0x4.0M size limited height subway in lieu of manned LC No: 90 in between Darnavada-Ruthiyai stations by cut & cover method.	1.0890	NA	Completed	Completed	100%	100%
97	2012-13	221	M.P.	Bhopal Division : Provision of RUB/LHS in lieu of manned level crossing nos. 07 and 13 in Bina - Ruthiyai section under ADEN Guna Sub division .	1.8601	NA	June'15	June'15	50%	30%
98	2012-13	222	M.P.	Bhopal Division : Provision of RUB / LHS in lieu of manned level crossing nos. 34 and 45 in Bina - Ruthiyai section under ADEN Guna Subdivision .	1.7541	NA	June'15	June'15	55%	0%
99	2012-13	223	M.P.	Bhopal Division : Provision of RUB/LHS in lieu of manned level crossing nos. 52 and 57 in Bina -Ruthiyai section under ADEN Guna Subdivision .	2.0492	NA	June'15	June'15	55%	5%
100	2012-13	224	M.P.	Bhopal Division : Provision of RUB/LHS in lieu of manned level crossing nos. 62 in Bina - Ruthiyai section and 15 in Guna - Gwalior section under ADEN Guna Subdivision .	1.6589	NA	June'15	June'15	50%	35%
101	2012-13	225	M.P.	Bhopal Division : Provision of RUB/LHS in lieu of manned level crossing nos. 25 and 54 in Guna -Gwalior section under ADEN Shivpuri Subdivision .	2.1009	NA	June'15	June'15	60%	40%
102	2012-13	226	M.P.	Bhopal Division : Provision of RUB/LHS in lieu of manned level crossing nos. 56 and	1.7622	NA	June'15	June'15	40%	0%

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1	2	3	4	5	6	7	8	9	10	11
				85 in Guna -Gwalior section under ADEN Shivpuri Subdivision .						
103	2012-13	227	M.P.	Bhopal Division : Provision of RUB/LHS in lieu of manned level crossing nos. 90 and 97 in Guna -Gwalior section under ADEN Shivpuri Subdivision .	1.6358	NA	Completed	June'15	100%	50%
104	2012-13	228	M.P.	Bhopal Division : Provision of RUB/LHS in lieu of manned level crossing nos. 107 & 117 in Guna -Gwalior section under ADEN Shivpuri Subdivision .	1.9687	NA	June'15	June'15	40%	35%
105	2012-13	229	M.P.	Bhopal Division : Provision of RUB/LHS in lieu of manned level crossing nos. 46 in Bina - Ruthiyai section under ADEN Guna Subdivision & 65 in Guna -Gwalior section under ADEN Shivpuri Subdivision .	1.8600	NA	Oct'15	Oct'15	55%	40%
106	2012-13	230	RAJ.	KOTA-GGC Section: Construction of limited height subway in lieu of manned LC No: 129 (TVU=24170) in between Kapren-Ghat ka Varana stations by cut &cover method.	1.4251	NA	Completed	Completed	100%	100%
107	2012-13	231	RAJ.	KOTA-GGC Section: Construction of limited height subway in lieu of manned LC No: 142 (TVU=5742) in between Rawanjna Dungar-Kushtala stations by cut & cover method.	1.4234	NA	Completed	Completed	100%	100%
108	2012-13	232	RAJ.	KOTA-GGC Section: Construction of limited height subway in lieu of manned LC No: 150 (TVU=3417) in between Kushtala-Sawai Madhopur stations by cut & cover method.	1.4418	NA	Completed	Completed	100%	100%
109	2013-14	233	M.P.	Provision of Limited Height Subways in lieu of manned LCs No. 23 KM 1124/5-6 on KTE-SGRL section.	1.5000	NA	Feb'15	June'15	100%	50%

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1	2	3	4	5	6	7	8	9	10	11
110	2013-14	234	M.P.	Provision of Limited Height Subways in lieu of manned LCs No. 30 KM 1168/4-5 on KTE-SGRL section.	1.5000	NA	Jan'16	Jan'16	0%	0%
111	2013-14	235	M.P.	Provision of Limited Height Subways in lieu of manned LCs No. 59 KM 1236/3-4 on KTE-SGRL section.	1.5000	NA	Jan'16	Jan'16	0%	0%
112	2013-14	236	RAJ.	Kota-Gangapur City Section: Provision of LHS in lieu of LC No: 171.	1.6379	NA	Completed	Mar'15	100%	80%
113	2013-14	237	M.P.	KOTA-RTA Section: Provision of LHS in lieu LC No: 85 & 91.	2.0892	NA	Mar'16	Mar'16	0%	0%
114	2013-14	238	RAJ.	Kota-Gangapur Section: Provision of LHS in lieu of LC No: 147.	1.4840	NA	Mar'16	Mar'16	0%	0%
115	2013-14	239	RAJ.	Kota-Gangapur Section: Provision of LHS in lieu of LC No: 155.	1.5742	NA	Mar'16	Mar'16	0%	0%
116	2013-14	240	M.P.	Provision of Limited Height Subway in lieu of manned LC No.17 at Km 1032/2-3 on BIN-KTE section.	1.7500	NA	Mar'16	Mar'16	0%	0%
117	2013-14	241	M.P.	Provision of Limited Height Subway in lieu of manned LC No.35 at Km 1064/2-3 on BIN-KTE section.	1.7500	NA	Mar'16	Mar'16	0%	0%
118	2013-14	242	M.P.	Provision of Limited Height Subway in lieu of manned LC No.33 at Km 1059/8-9 on BIN-KTE section..	1.7500	NA	Mar'16	Mar'16	0%	0%
119	2013-14	243	M.P.	Provision of Limited Height Subway in lieu of manned LC No.103 at Km 1212/4-5 on BIN-KTE section.	1.7500	NA	Mar'16	Mar'16	0%	0%
120	2013-14	244	M.P.	Provision of Limited Height Subway in lieu of manned LC No.366 at Km 1111/5-6 on JBP-MKP section.	1.7500	NA	June'16	June'16	30%	0%
121	2013-14	245	M.P.	Provision of Limited Height Subway in lieu of manned LC No.367 at Km 1114/2-3 on JBP-MKP section.	1.7500	NA	Jan'16	Jan'16	30%	0%
122	2013-14	246	M.P.	Provision of Limited Height Subway in lieu	1.7500	NA	June'16	June'16	30%	0%

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1	2	3	4	5	6	7	8	9	10	11
				of manned LC No.371 at Km 1122/8-9 on JBP-MKP section.						
123	2013-14	247	M.P.	Provision of Limited Height Subway in lieu of manned LC No.379-B at Km 1145/2-3 on JBP-MKP section..	1.7500	NA	Mar'16	Mar'16	30%	0%
124	2013-14	248	M.P.	Provision of Limited Height Subway in lieu of manned LC No.398 at Km 1219/2-3 on JBP-MKP section	1.7500	NA	Mar'16	Mar'16	30%	0%
125	2013-14	249	U.P.	Provision of Limited Height Subway in lieu of manned LC No.402 at Km 1241/7-8 on JBP-MKP section.	1.7500	NA	Mar'16	Mar'16	30%	0%
126	2013-14	250	M.P.	Provision of Limited Height Subway in lieu of manned LCs No.329 at Km 1015/3-4 on JBP-MKP section.	1.8000	NA	Mar'16	Mar'16	0%	0%
127	2013-14	251	M.P.	Provision of Limited Height Subway in lieu of manned LC No.303 at Km 962/7-8 on ET-JBP section.	1.0800	NA	Mar'16	Mar'16	0%	0%
128	2013-14	252	M.P.	Provision of Limited Height Subway in lieu of manned LC No.235 at Km 809/0-1 on ET-JBP section..	2.0000	NA	Mar'16	Mar'16	0%	0%
129	2013-14	253	M.P.	Provision of Limited Height Subway in lieu of manned LC No.274 at Km 895/3-4 on ET-JBP section.	2.0000	NA	Mar'16	Mar'16	50%	0%
130	2013-14	254	M.P.	Provision of LHS in lieu of unmanned level crossing No. 51 in GUN-GWL section.	2.3773	NA	NF	NF	0%	0%
131	2013-14	255	M.P.	BPL Divn : Provision of LHS in lieu of unmanned level crossing No. 91 in GUN-GWL section.	1.5791	NA	Completed	Completed	100%	100%
132	2013-14	256	M.P.	BPL DIVN : Provision of LHS in lieu of manned level crossings No. 270 in BPL-BIN section	2.4805	NA	May'15	May'15	0%	0%
133	2013-14	257	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 272 in BPL-	2.3011	NA	May'16	May'16	0%	0%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				BIN section.						
134	2013-14	258	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 294 in BPL-BIN section.	2.3079	NA	May'16	May'16	0%	0%
135	2013-14	259	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 298 in BPL-BIN section.	2.3079	NA	May'16	May'16	0%	0%
136	2013-14	260	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 303 in BPL-BIN section.	2.4187	NA	May'16	May'16	0%	0%
137	2013-14	261	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 241 in Itarsi-Bhopal section.	2.3108	NA	May'16	May'16	0%	0%
138	2013-14	262	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 241/ A in ET-BPL section.	2.4679	NA	May'16	May'16	0%	0%
139	2013-14	263	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 242/ A in ET-BPL section.	2.4495	NA	May'16	May'16	0%	0%
140	2013-14	264	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 245 in ET-BPL section.	2.4465	NA	May'16	May'16	0%	0%
141	2013-14	265	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 226 in ET-BPL section.	2.4397	NA	May'16	May'16	0%	0%
142	2013-14	266	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 227 in ET-BPL section.	2.2842	NA	May'16	May'16	0%	0%
143	2013-14	267	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 277 in BPL-BIN section.	2.4338	NA	May'16	May'16	0%	0%
144	2013-14	268	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 81 in RTA-	1.9526	NA	Mar'15	Mar'15	40%	0%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				MKC section.						
145	2013-14	269	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 86 in RTA-MKC section	1.9526	NA	May'16	May'16	40%	0%
146	2013-14	270	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 101 in RTA-MKC section	1.9526	NA	Completed	Mar'15	100%	40%
147	2013-14	271	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 118 in RTA-MKC section	1.9526	NA	May'16	May'16	0%	0%
148	2013-14	272	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 132 in RTA-MKC section	1.9526	NA	May'16	May'16	40%	0%
149	2013-14	273	M.P.	BPL DIVN. : Provision of LHS in lieu of manned level crossings No. 148 in RTA-MKC section.	1.9526	NA	May'16	May'16	40%	0%
150	2013-14	274	RAJ.	KOTA-RTA Section: Provision of LHS in lieu of manned LC No: 26 & 30	2.2483	NA	Mar'16	Mar'16	0%	0%
151	2013-14	275	RAJ.	KOTA-RTA Section: Provision of LHS in lieu of manned LC No: 84 & 92.	2.3244	NA	Mar'16	Mar'16	0%	0%
152	2013-14	276	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 198 in KNW - ET sec..	2.4801	NA	May'16	May'16	0%	0%
153	2013-14	277	M.P.	Bhopal Division : Provision of LHS in lieu of manned level crossing No. 208 in Khandwa - Itarsi section.	2.4801	NA	May'16	May'16	0%	0%
154	2013-14	278	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 210 in KNW - ET sec..	2.3608	NA	May'15	May'15	0%	0%
155	2013-14	279	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 212 in KNW - ET sec..	2.4801	NA	May'16	May'16	0%	0%
156	2013-14	280	M.P.	Provision of Limited Height Subway in lieu	1.7500	NA	Mar'16	Mar'16	0%	0%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				of manned LC No.13 at Km 1018/2-3 on BIN-KTE section.						
157	2014-15	281	RAJ.	KOTA-NAD: Provision of 4.00x3.00m size limited height subway (LHS) by cut & cover method in lieu of manned LC No: 95 (TVU=2211) at km: 880/26-28 between Dara-Rawtha Road stations and other additional work for streamline the traffic too.	2.4833	NA	Mar'16	Mar'16	0%	0%
158	2014-15	282	RAJ.	KOTA-GGC Section: Provision of 5.00x4.00m size limited height subway (LHS) by cut & cover method in lieu of manned LC No: 145 (TVU=10414) at km: 1019/06-08 between Rawajna Dungar-Kushtala stations.	1.6049	NA	Mar'16	Mar'16	0%	0%
159	2014-15	283	RAJ.	KOTA: Improvement to drainage arrangement between RUB at km: 920/16A-18A in Kota yard & RUB at km: 2.208 on Kota'C'-SOG bypass line.	0.9634	NA	Mar'16	Mar'16	0%	0%
160	2014-15	284	M.P.	Bhopal division - Provision of LHS in lieu of manned level crossing No. 137 of RTA-MKC section.	2.0552	NA	Dec'15	Dec'15	0%	0%
161	2014-15	285	M.P.	Bhopal division - Provision of LHS in lieu of manned level crossing No. 146 in Ruthiyai-Maksi section.	1.9255	NA	Dec'15	Dec'15	0%	0%
162	2014-15	286	M.P.	Itarsi: Construction of RUB on Amla Chord line between Itarsi station and Loco shed colony and provision of approach road.	2.3224	NA	Dec'15	Dec'15	0%	0%
163	2013-14	125	M.P.	BPL Divn : Provision of LHS in lieu of manned level crossing No. 182 in KNW - ET sec.	2.3608	NA	NF	NF	0%	0%
164	2013-14	126	M.P.	BPL Divn. : Provision of LHS in lieu of manned level crossing No. 202 in KNW -	2.4801	NA	Mar'16	Mar'16	0%	0%

SN	Year of Sanction	Item No. 12-13	State	Name of work	Rly. Share (₹in Crores)	State Share (₹in Crores)	Target date of completion 'Bridge portion'	Target date of completion ₹'Approach portion'	% Progress of Bridge portion	% Progress of Approach portion
1	2	3	4	5	6	7	8	9	10	11
				ET sec..						
<b>BOT WORKS</b>										
1	2008-09	NA	RAJ.	ROB in Lieu of LC. No. 37 at Km 64/14-15 on NH-76 on Kota-Baran, Shivpuri Road.	NA		Completed	completed	100%	100%
<b>NHAI WORKS</b>										
1	2007-08	NA	RAJ.	ROB at Km 907/7-9 on Kota-Nagda Section betn Daddevi-Dakaniya Talera stations. (Kota By-Pass)	NA	1.48	Dec'15	Completed	70%	100%
2	2009-10	NA	M.P.	ROB at Km 962/7-8 in lieu of level crossing No.303 on Itarsi-Jabalpur section.	NA	—	Dec'16	Dec'16	0%	0%
<b>DEPOSIT WORKS</b>										
1	2012-13	NA	M.P.	ROB near LC No. 248 at Km 829/16-18 on Itarsi- Bhopal section.	NA	—	Dec'15	Dec'15	10%	50%

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## 4. वाणिज्य/COMMERCIAL

### Highlights/Achievements of Commercial Department of West Central Railway for the year 2014-15

#### 1. Two good stories on passenger amenity work done

In order to make the berth availability position more transparent to the passengers seeking reservation, WCR requested CRIS to provide break up of berth type wise availability ( i.e display of number of berths available in LB, MB, SL, SU, UB Window, aisle etc) in enquiry menu of PRS. The same has been implemented and has been appreciated by the public.

#### 2. List of passenger amenity work done in last one year

Item	(No.)	Description	Remarks
Defence PRS:-	3	JBP Mil station, BPL Mil station and Kota Mil Station	Total 47 PRS locations are functional over WCR.
Post office PRS	4	Pachmarhi, Raisen and two at Bhopal city over WCR	5 locations as Post Office PRS are functional over WCR.
UTS cum PRS	1	Vijaypur Station of Bhopal division	At present total 56 UTS cum PRS locations are available over WCR. By now over WCR reservation facility can be availed at total 103 locations.
UTS	5	Majhauri, Katni South, Dubrikalan, Gajrabehra & Kesholi	At present total 261 locations are connected with UTS facilities.
STBS	42	STBS locations (JBP-15, BPL-11, KOTA-16)	
JTBS	6	JBP-2, BPL-4,	At present total 99 locations have been commissioned.
Online booking Retiring Rooms	9	JBP:-SGO, PPI, SRID, DMO BPL:- SCI, BHS, GUNA, ASKN, BINA	Now all 20 locations are on online booking.
Escalator	2	PF no. 1 of Bhopal w.e.f. 23.06.2014 and Kota station w.e.f. 05.07.2014	Now total three escalators are operational over WCR.
Catering Services: New Refresment rooms	6	(ET-2, BINA-1, BPL-1, BTE-1, KOTA-1, PPI-1)	
TSV	1	12061/12062 JBP-BPL Janshatabdi	
Surveillance System station inquiry office	3	IP based Surveillance System have been installed at enquiry and booking offices of JBP on 05.06.04 (Both sides) , KTE on 10.06.14 and STA on 12.06.14 to monitor staff public	
Paper less charting System	5	Electronic Paperless Charting System was commissioned on WCR over five stations i.e. JBP, BPL, HBJ, GUNA & Kota.	
Waiting hall	7	Ladies waiting rooms have been provided at MYR and Satna. Renovated waiting room at Kota station Jabalpur station on PF - 06 new amenities have been provided which includes-VIP room, ladies waiting room, upper class waiting room, sleeper class waiting room	
Merchant hall	1	Merchant Room at Baran Goods Shed has been inaugurated by GM/WCR on 28.03.2015.	
New FOB/ramp	6	Ramp at NU with existing FOB, FOB with ramp at PPI. FOBs at NWB and MYR. BTE (connecting 3/4/5).MAKR	

Item	(No.)	Description	Remarks
Covered sheds	14 stations	One Bay COP on each both PFs at MAKR Kota div. at 13 stations KPZ, ARE, APTN, RMA, DWM, MEP, THUR, GOH, BKRA, BON, SYL, CAG, BDZ.	
New platforms	4	At JBP station two new platforms 4 & 5 have been commissioned. High level platform at KTES, SWM (PF-4)	
Washable Aprons	8	New washable aprons have been provided at HBJ (PF2), ET (PF-6) JBP (PF5&6), GGC (PF-1), BXN (PF-3), SWM (PF-3), BTE(PF-1).	

#### Other IT initiatives

- 30 LED-TV have been commissioned from 07.03.2015 at Platform No.01 of Kota station information, passenger related information and commercial advertisement. Expected advertisement earnings from this contract will be ₹ 4.80 Lakhs. It is a new experiment over WCR.
- Video based enquiry system has been commissioned on 14.03.15. at Jabalpur station of WCR. Improvement of circulating area

Bhopal (East side), Baran, and KTE

#### Raising of PF

- At 3 platforms at SMBJ from ML to HL
- BTE PF 3 from ML to HL.
- High level PF at 14 D& E category stations.(MKX, MLZ, NNM, FSP, MLGH, MEP, ATRU, KNDP, SYL, IDG, CAG, BAZ, HAN, CMU )

#### Extension of PF

- Kota PF 4 from 18 to 24 coaches
- MML : 100 mtrs.
- Extension of PF at 12 stations GUNA, BRRG, ASKN, SMT, MYNA, SFW, BAQ, PIA, DWG, GLG, CBK and SVPI to 24/26 coaches.

#### 3. List of capacity enhancement done in last one year:

- New trains

Train No.	Name	Introduced w.e.f.
51603/04	Bina-KMZ passanger	20.10.2014
19805/06	KOTA –UHP-KOTA Exp	12.11.2014
15117/18	JBP-MUV Exp	07.12.2014
22937/38	REWA -RJT Exp weekly	05.01.2015
11207/11208	REWA -NGP Exp weekly	12.02.2015

- Extension of train

Train No.	Name	Extended up to	Introduced w.e.f.
12001/02	BPL-NDLS shatabdi	HBJ	21.10.2014
15613/14	KOTA-DMO Pass	KMZ	21.10.2014

#### 4. Total no. of coaches added in last one year:

Permanent augmentation: total 8 coaches (1 FAC, 2 FACCW, 1ACCW, 3ACCN, 1GSCN in five trains)

Temporary and day to day augmentation:

Total 6357 coaches accommodating 2.85 lakhs passengers giving revenue of ₹ 11.62 crores.

**5. Total Special trains run in last one year:**

44 Trains (WCR owned 38), total trips 563 (533 trips by WCR owned trains) accommodating 3.2 lakhs passengers giving a revenue of ₹ 15.21 crores.

**6. Earnings:****I. Passenger earnings(originating):** (Amt. in ₹ Crores)

Last year's (actual)	2014-15 (Target)	2014-15 (Actual)
1159.24	1377.91	1338.05

(15.42% above to last year and 2.89 % below the target)

**II. No. of Passengers booked:** (No. of Passenger in Lakhs)

Last year's (actual)	2014-15 (Target)	2014-15 (Actual)
1425.47	1470.00	1390.04

( 2.48% below the last year and 5.44% below the target)

**III. Goods Earnings (originating) :** (Amt. in ₹ Crores)

Last year's (actual)	2014-15 (Target)	2014-15 Actual)
3352.18	4212.40	3833.85

(14.37% above to last year and 8.99% below the target)

**IV. Sundry Earnings :**

This head of earning is contributed approximately only 15%-20% by commercial branch and the balance 80%-85% contribution is by engineering branch. Except for publicity, and parking no specific earning targets were prescribed in other sub-categories under this head by Rly Board. The overall position of sundry earning was as follows:

(Amt. in ₹ Crores)

Last year's (actual)	2014-15 (Target)	2014-15 (Actual)
87.99	108.00	121.54

(38.13% above to last year and 12.54% above to the target)

However, this year's contribution of commercial department was to the extent of ₹21.66 crore as against the ₹ 19.77 crores of 2013-14 which is 9.55% more than the last year.

**V. Other coaching earnings :** (Amt. in ₹ Crores)

Last year's (actual)	2014-15 (Target)	2014-15 (Actual)
110.73	129.46	133.62

(20.67% above to last year and 3.21 % above to the target)

**7. New Siding open on WCR**

Division	Siding Name	Commissioned	Alpha Code	Serving station
Jabalpur	M/s Madhya Pradesh Jaypee Minerals Ltd.	30.04.2014.	MPJM	Majhauri
Jabalpur	M/s Jaiprakash Power Ventures Ltd.	30.04.2014.	JPVN	Niwas Road
Jabalpur	M/s Hindalco Industries Ltd.	24.06.2014	HIMB	Bargawan
Jabalpur	M/s Reliance Cement Co. Pvt. Ltd.	30.09.2014	RCPB	Bhadanpur
Jabalpur	JRCT Siding TZR	12.03.2015	JRCT	Turki Road

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## 5. विद्युत/ELECTRICAL

### 1. Performance of Electrical Department: 2014-15

#### 1.0 Highlights

- i) WCR has highest electric loco holding of 579 on Indian Rlys.
- ii) WCR had filed appeal no 209 of 2012 in the Hon'ble APTEL, New Delhi against traction tariff order FY 2012-13, regarding hike by MPERC & others. State commission had increased the Demand Charges from ₹ 220/- to ₹ 265/- per kVA and energy charges from ₹ 4.70 to ₹ 5.00 /kWh for 2012-13.

WCR appeal was dismissed by the Hon'ble APTEL, New Delhi.

After approval by Bd., Civil Appeal no 10079 of 2014 was filed by WCR in the Hon'ble Supreme Court of India on 02.09.2014 against tariff hike vide tariff order FY 2012-13 by MPERC & other Discoms on following grounds:

First hearing was held on 10.10.2014 & Second hearing was held on 03.11.2014. Hon'ble Court has decided to club another similar case of ECoR Vs OERC with this case. Hon'ble Court decided to issue notices to Respondents and others.

On 09.01.2015 court directed respondents to file counter affidavit within four weeks, hearing fixed on 19.02.2015.

On 19.02.2015, Advocate of respondents requested for grant of further four weeks time for submission of counter affidavit and hearing was fixed on 06.04.2015. But again Advocates demanded four weeks more time for submitting counter affidavit with replies, hence next hearing fixed on 14.07.2015.

- iii) Add. Member / Electrical / Rly.Bd. Inspected Kota Running Room and Crew Lobby on 14-15 March 2015. He appreciated maintenance and upkeep of Running room and Lobby and declared an award of ₹ 20,000/- .
- iv) On 23.03.2015, ELS/Tughlakabad has been awarded 'RAIL MANTRI RAJBHASHA SHIELD' & cash award of ₹ 7000/- as model shed, for the excellent work done by shed in the field of Rajbhasha during 2013.
- v) 11 Tkm OHE line from BIR station to Shri Singaji Thermal Power Plant commissioned on 24.06.14.
- vi) In compliance to Bd's letter no. 2001/Elect(G)/170/2 Pt.-I dt. 22.10.2013 and looking to fruitful results of provision of Circuit Breaker in place of BM (Breaker Main: Interruptor) at Sawaimadhopur/SSP for FCI siding/Kota div., now circuit breaker in place of interrupter at MTPC/SSP for feeding supply to MTPC marshalling yard of RVNL Thermal siding has been provided, so whenever fault occurs in siding & associated lines, then main line OHE is not interrupted which is controlled by separate BM-36.
- vii) Electrification work of FOB at Deori station/JBP div. has been completed departmentally.
- viii) Third Line: Bhopal Div.-Diwanganj-Sukhisewaniya section 863/15A to 848/23A km and Bareth-Kalhar-Mandibamora section 958/25A to 941/5A have been successfully charged on 22.10.14 and 09.03.15 respt. by RVNL/BPL after getting EIG sanction.

#### 1.1 Loco

- i) ELS/New Katni- Innovation of detection of loose inner race of Axle Journal in-situ by ultrasonic testing of WAG<sub>7</sub> loco in service.  
Based on RDSO code of procedure, new test procedure for WAG<sub>7</sub> locos has been developed. So far, 153 axles have been tested. Defect was found in loco no. 27678, axle-3 and major on-line failure was averted.
- ii) Newly developed computerized system 'CRR' (Computerized Running Room Information System) at running room Kota was inaugurated by GM/WCR on 28.03.2015. This will facilitate to check and select bed in running room at the time of Sign 'Off' by crew.

## 1.2 Traction Distributaion

- In compliance of Bd.'s letter no.-2001/Elect(G)/170/2 Pt.I dt 22.10.2013, Kota div. has replaced existing interrupter (BS-62) by providing separate circuit breaker (CB) for feeding 25 kV supply to FCI siding and Sawaimadhopur yard to arrest OHE supply tripping to main line if there is any fault in FCI siding .
- One 21.6 MVA Traction transformer of EMCO make has been charged on 23.04.14 & taken on load successfully on 26.04.14 at Guna/TSS.
- One Numerical differential relay has been provided in traction transformer of Gulabganj TSS/Bhopal Div, thus total five in Bhopal (out of 21), six in Kota (out of 19) have been provided so far.
- Four 25 kVA AT (two at Sukhisewaniya stn. and two at Diwanganj stn./Bhopal div.) have been charged successfully after getting EIG sanction.

## 1.3 General Services

- Illumination level of Bagaratawa tunnel/Bhopal div. has been improved by providing additional fittings departmentally.
- GPS based Passenger Information System: This system has been provided on AC Coach of Intercity Express 19801/02 (Kota-Indore-Kota). This system shows distance of coming station, safety slogans and welcome messages.

## 1.4 Improving Work Culture and environment at work place

- Scrap Disposal: Summary of Electrical department/WCR is as below :

Div.	Ferrous (Kg)	Non ferrous (Kg)
Jabalpur	Ferrous	Non ferrous
Bhopal	61871	51939
Kota	84488	190004
WCR	70658	162928

- Environmental Issues:  
Development, production & use of alternate source of energy-
  - Three kW solar power plants have been commissioned at Dubrikalan station/Jabalpur div. For station light and UTS working.
  - 13 (40 W) solar lighting panel provided at Rly. Colony/Chhabra Gugor/Kota div & Kota power house.
  - LC gate no. 56, 57, 58 & 61 in Guna- Gwalior section have been electrified by 40 W solar panel. 74 W solar panel provided for Dy.SS room lighting at Sinduria Kachri station of Kota div.
- People Centric Initiatives
  - As a passenger amenity, escalators were commissioned at Bhopal and Kota stations on 23.06.14 and 05.07.14 respt.

## 2. INFRASTRUCTURE

### 2.1 Loco: Electric Locomotive Holding

Shed (Div)	10-11	11-12	12-13	13-14	2014-15 (As on 31 <sup>st</sup> March15)							%age Var. 2013-14 & 2014-15
					WAP <sub>7</sub>	WAP <sub>4</sub>	WAM <sub>4</sub>	WAG <sub>5</sub>	WAG <sub>7</sub>	WAG <sub>9</sub>	TOT	
NKJ (JBP)	133	173	188	188	--	--	--	114	74	--	188	--
ET (BPL)	165	171	175	175	--	64	33	94	--	--	191	9.1
TKD (KOTA)	159	178	188	203	20	--	20	84	29	44	200	-1.5
Tot	457	522	551	566	20	64	53	292	103	44	579	2.3

## 2.2 Traction Distribution (Tr.D)

Items	2010-11	2011-12	2012-13	2013-14	2014-15			
					JBP	BPL	KOTA	Total
Electrified RKM	1594	1594	1594	1594	283	609	709	1601
Electrified TKM	3679.6	3693.3	3752	3752	714	1462	1610	3786
Tract Sub-Station	23	23	25	25	4	11	10	25
Tower Wagon 4W	23	25	26	30	4	12	13	29
Tower Wagon 8W	7	7	8	9	2	4	3	9

## 2.3 General Services (OSM and TL/AC)

### i) Power Line Group

Assets	2010-11	2011-12	2012-13	2013-14	2014-15			
					JBP	BPL	KOTA	Total
DG set	86	87	87	88	42	35	11	88
Pumps	581	581	581	581	216	202	175	593
Water coolers	398	398	404	404	142	131	131	404
AC Units	665	665	665	665	499	298	260	1057
Transformers	189	189	189	189	48	69	74	191
HT Points	59	59	59	59	20	17	27	64
Electrified Quarters	27703	27156	27703	27237	8558	7635	8705	24898

### ii) AC/TL Coaching Stock

Div	2010-11		2011-12		2012-13		2013-14		2014-15	
	Non-AC Coach	AC Coach	Non-AC Coach	AC Coach	Non-AC Coach	AC Coach	Non-AC Coach	AC Coach	Non-AC Coach	AC Coach
JBP	410	89	450	95	455	124	461	132	474	136
BPL	334	30	343	32	386	51	372	52	341	42
KOTA	186	9	202	11	236	15	250	23	294	23
Tot	930	117	930	128	1077	190	1083	207	1109	201

Major Maintenance Depot:

JBP Division - JBP, KTE, REWA

BPL Division - BPL, HBJ, ET, BINA

KOTA Division - KOTA

## 3. Performance of Electrical Deptt.

### 3.1 Loco (Territorial)

(‘+’ improvement and ‘-’ deterioration)

SN	ITEMS		2011-12	2012-13	2013-14	2014-15	%age Var. 13-14 & 14-15
1	Accident cases on crew/ loco account (nos.)		0	0	0	0	--
2	Engine failure (SF) (nos.)		70	69	68	67	1.5
3	Punctuality loss (nos.)	Incidences	161	142	129	110*	14.7
		Trains	213	222	170	160*	5.9
4	Stalling (nos.)		137	89	71	67**	5.6
5	Loco Outage						
	Av. Daily Freight loco		144.5	155.16	146.7	157.5	7.4
	Av. Daily Coaching loco		60.73	64.16	56.42	58.74	4.1
	Total		205.2	219.3	203.1	216.2	6.4

6	Coaching Trains run by AC loco	--	89277	91999	96513	4.9
7	Crew utilization (Goods) per fortnight(hrs.)	100.5	104.6	104.9	102.4	2.4
8	10 hrs. Performance (W/M to W/S < 10 hrs) (%age)	90.11	89	89.94	90.92	1.1
9	12 hrs. Performance (S/on to S/off < 12 hrs.) (%age)	91.34	90.85	90.48	92.40	2.1

\* Excluding 47 trains-26 Incidences. [(28 trains lost in 22 incidences wrongly logged on electric loco account by traffic, 10 trains (two incidences) lost due to FDCS failure of CNB & JHS (NCR) loco, Four trains (one incidence) lost due to SIV failure of LDH/NR loco and five trains (one incidence) lost due to TM failure having FAG make bearing with design problem of TKD/WCR loco, for which letter has been written to CLW].

\*\*Excluding 25 cases in Mar.'15 : [15 cases on account of extra time taken/banker/ MU not given, four cases on account of load jam, one case of SECR (NKJ "C"- JLW) territory, and five cases on account of signal against/ gate signal ON- thus LP stopped train].

### 3.2 Electric Loco Ownership Performance

SN	ITEMS		2011-12	2012-13	2013-14	2014-15	%age Var. 13-14 & 14-15
1	Loco Failures (SF)		171	175	166	145*	12.7
2	Punctuality loss (nos.)	Incidences	179	120	142	130 <sup>\$</sup>	8.5
		Trains	265	190	245	183 <sup>\$</sup>	25.3
3	Freight Loco Outage		364.91	404.25	406.10	411.7	1.4
	Coaching Loco Outage		80.92	92.49	107.9	114.3	5.9
	Total		445.8	496.7	514.1	526.1	2.3
4	Healthy UES (% age)		77.66	71.4	77.3	80.48	4.1
5	Implementation of RAP/ Modification (% age)		82.97	86.14	87.52	90.26	3.1

Loco holding has **increased** from **557.42** to **577.41 (3.59%)**.

<sup>\$</sup> Excluding 115 trains- 53 Incidences. [(32 trains lost in 21 incidences wrongly logged on electric loco account by traffic. 21 trains (14 incidences) lost in FR on FR crew account. Six trains (Five incidences) lost in FR on account of transient trouble, 33 trains (four incidences) lost due to failure of POH shop items, 17 trains (four incidences) lost due to failure of CLW items, Six trains (Five incidences) lost due to stalling even though loco was found normal].

As could be seen:

- Loss of punctuality cases in WCR territory reduced by 5.88% during Apr. to Mar.'15 as compared to corresponding period of last year, despite increase in no. of coaching trains run by AC loco.
- Reported loco (Statistical) failures on territorial basis reduced by 24.49% during Apr. to Mar.'15 as compared to corresponding period of last year.
- Failures percent of loco outage per day on ownership basis reduced by 10.27% during Apr. to Mar.'15 as compared to corresponding period of last year.

\* Excluding 26 cases (ten cases failure on account of transient trouble/loco

checked and found normal, 11 cases - due to failure of new loco ex. CLW, two cases – SB failure due to loco was running TI overdue, two cases – on account of Foreign Rly. crew, one case – stalling due to drizzling rain).

### 3.3 Traction Distribution

SN	ITEMS	2011-12	2012-13	2013-14	2014-15	%age Var.13-14 &14-15
1	OHE failures (nos.)	11	19	11	12 (12-2)	-9.09 9.09*
	Tr.D Failures overall (nos./lacs Tkm/month)	20.32	42.30	24.4	26.4 22.0*	- 8.1 (w.r.t 12 failures) 9.9 (w.r.t.10 failures)
2	Punctuality loss (nos.)	38	67	46	45 (45-29)*	2.17 65.22*
3	PF improvement in TSS'>0.95 (Nos.)	8	8	21	21	-
4	Rebate in pf improvement (₹Cr.)	3.21	9.96	14.72	14.76	0.3
5	SEC					
	Goods (Bd Target 7.00)	6.94	7.44	6.62	6.88	-3.9
	Chg. (Bd Target 18.42)	18.42	18.52	18.49	18.58	-0.5

\* On 17.10.14, OHE breakdown was due to entanglement of flex sheet (foreign material) with panto & OHE, which came off from outside hoarding board due to heavy storm resulting punctuality loss of ten M/E trains. It was not on OHE failure.

\* On 20.03.15, CB of Powarkheda TSS tripped and lockout. On checking loco, Wet wooden piece of kite & thread, found on roof of loco no. 27176 of goods train N/box and also there was heavy rain and wind in the section. This has resulted into shorting of roof bus bar with loco roof and punct. loss of 19 M/E trains. It was not OHE failure.

Due to this overall improvement is more as indicated by \*.

### 3.4 TRAIN LIGHTING & AIR-CONDITIONING

SN	ITEMS	2011-12	2012-13	2013-14	2014-15	%age Var. 13-14 &14-15
1	Failure TL/AC (Own.)	15	25	20	9	55.0
	Punctuality TL/AC (Own.)	20	33	35	11	68.6
2	Failure TL/AC (Terr.)	28	35	40	28	30.0
	Punctuality TL/AC (Terr.)	39	51	55	36	34.5

## 4 SAFETY

1. Following safety drives/actions taken during year:

To observe irregularities noticed during shunting movement at NKJ yard, STA yard, JBP station and ET Pass. yard., to check BPC of CC rakes of BOXN/BOXNHL and BCN/ BCNHL rakes in respect of logging of KMs in BPC and GDR check slips., to check safety items of WAG<sub>9</sub>, WAP<sub>7</sub> and conventional locos, to counsel running staff for prevention of brake binding in loco/coaches, to check VCD operation/ malfunctioning when BP pressure dropped to 'zero' on running of trains, to prevent rising trend of derailments, one time cyclic checking and replacing defective Reverser, BL & ZPT switches and its assembly at interval of one year in all WCR locos, Special safety drives to check efficacy and preparedness of Railway systems.



2. In order to minimise impact of fire incidences, ELS/TKd has started using fireballs. These fireballs have to be thrown on the place under fire. The balls get burst due to impact and the chemicals



contained therein cause the fire to subside. Shed has procured five such balls and placed them in the sections having more fire prone equipments.

3. बीटीसी इटारसी में चालक दल हेतु **कन्वेंशनल विद्युत लोको** के संबंध में **एकीकृत दोष निवारण निर्देशिका** पूर्णतः हिन्दी भाषा में प्रकाशित की गई है। जिससे चालक दल इसे आसानी से पढ़कर समझ सके।
4. BTC/Itarsi has developed **Conventional Loco Integrated Troubleshooting Directory** in Hindi to comprehend Loco troubleshooting easily, for distribution among running staff of WCR.
5. ELS/TKD: Trouble Shooting Directory for three phase locos have been printed and distributed in all three divisions of WCR.
6. Safety Seminar was organized at hqs. on 28.05.14 presided by GM. PHODs of other Departments and Electrical Branch officers attended this seminar. A Safety Booklet was inaugurated by GM on this occasion.
7. Electrical Safety Week was celebrated from 05<sup>th</sup> to 10<sup>th</sup> May'14. During this week, special drives were launched to counsel ALP/LPs and Trip shed staff regarding safety measures to be taken while working on electric locos.
8. A special drive was launched by Tr.D/Jabalpur div. to check PG clamp of cross feeder and Jumper wire of TSS and switching station. Out of 136 PG clamps, 51 PG clamps have been checked. Two nos. PG clamps at Makroniya TSS and one no. at Damoh/SSP have been replaced due to bimetallic strip found flash. Work is in progress.
9. OHE of all sections (1430 Tkm) in Bhopal div. has been checked by eight wheeler tower wagon fitted with 2032 mm (AM-18) width pantograph.
10. In compliance of Bd's letter no.-2005/Elect(G)/161/8 Pt-III dt 22-09-2014, Kota div. observed intensive inspection by thermo vision camera specially for checking of PG clamps, splices etc. With this procedure some unexpected hot spots were observed during month in CT at BTE/TSS and in G Jumper at 1022/8 SWM, which were attended on top priority.
- 11 Steps taken to reduce SPAD cases:-
  - CUG mobile phone in off condition during run for LPs is being selectively monitored through call details. Ambush checks have been conducted regularly. Special stickers have been pasted in all cabs in front of pilot seat to remind also.
  - Running staff are counseled for calling out signal loudly, indicating name of station, signal name and signal aspect.
  - Ambush checks are being conducted at the signing off stations to ensure that LP/ALP do not start packing their belongings before the train is brought to halt at the signing-off stations.
  - Identification of alcohol prone LPs for taking reformative measures and close monitoring. Surprise checks during run by BA equipment.
  - Weekly Monitoring of 10 Hour working during Safety Meeting at hqs.
  - Scientific counselling is being resorted to in weak areas identified through questionnaire amongst ALP/LPs.
  - ALPs are specifically being sensitized to keep a watch on over-speeding of their trains and inform LPs to act in time and also take timely action for controlling the train.
  - Refresher & PME overdue staff is not allowed to perform duty.
  - Welfare Inspectors have been nominated to interact with families of running staff. Problems raised are being taken care of. Families have been counseled on the necessity of taking adequate rest while at home before duty.

- If any LP comes to duty after long leave/sickness of more than 15 days, nominated LI accompanies LP on first trip. Also, LPs coming to duty after availing leave are being booked after 06.00 hours (in day time) to the extent possible.

## 4.2 Status of Corporate Safety Plan Items

Progress of items of Corporate Safety Plan during 2014-15.

SN	Items	Remarks
1	DBR	Completed
2	Microprocessor based speed recorders in electric locos (ESMON)	Completed
3	LED Marker/ Flasher light	Completed
4	Vigilance Control Device	Completed
5	Twin beam Headlight	Completed
6	Flush light fitting in SLRs	Completed
7	LC gates lighting	Completed
8	Master switches in SLR	Completed
9	Replacement of winch type regulating equipment by modified three pulley type regulating equipment.	Completed
10	In motion loco simulator training centre	LOA issued to M/s Sydee Pvt. Ltd dt.21.03.14, DP- 33 months
11	Emergency lights in coaches	90
12	Elimination of critical implantation locations.	09
13	Provision of screens to 1.83 m height on all FOBs to cover gaps wherever existing between lines	18

## 5. SYSTEM IMPROVEMENT

### 5.1 Loco

1. There is problem in taking out grease sample for ascertaining the health of DE side bearings in three phase traction motors for which grease outlet has been modified by making a hole oblong to 30 mm in place of 10 mm. Modified end-shields have been provided in two traction motors on trial basis in ELS/Tughlakabad (TKD).
2. Job cards are being issued to sections and work done as well as equipment transaction is being updated through System for Loco Asset Management (SLAM).
3. Implementation of Store Module through System for Loco Asset Management SLAM is under progress.
4. WAP<sub>7</sub> Loco No.30376 of ELS/TKD failed due to VCB not closing due to quick release coupling became uncoupled. In order to avoid such failures, shed has started providing clamping on pipeline of VCB quick release coupling.
5. ELS/TKD: MS strips were provided between roof and channels of SIV for avoiding vibrations to SIV foundation. However, these strips were found to be cracked in every schedule inspection of loco. To avoid this, shed has started to provide 'L' clamp in place of MS strips. 27 locos, out of 42 SIV equipped locos, have been provided with this arrangement, so far.
6. ELS/TKD: Micro Processor based test bench for EP Contactors has been commissioned, helpful in maintaining paperless record of the contactors.
7. ELS/TKD: In order to provide safety to BP/FP angle cocks in three phase locos from CRO and external hitting, shed is providing additional safety guard.

8. ELS/TKD: There have been cases of spurious messages regarding difference in temperature of TMs due to improper fitment of sensors causing difference in height. To improve the performance of temperature sensors, Shed has started cleaning of sensors with thinners. This will help in equalizing the height of temperature sensors in housing.
9. ELS/TKD: In order to improve performance of Traction Motor speed sensors in three phase locos, Shed has developed jig for in-situ adjustment of temperature sensors in traction motor.
10. ELS/TKD: Loco No. 30340, WAP<sub>7</sub> failed on line on 14.02.15 due to breakage of traction link. During investigation, it was noticed that the welding failed near flange. In order to avoid this problem, shed has provided modified traction link, pulled from WAG<sub>9</sub> locos, in two WAP<sub>7</sub> locos, so far. in which tube dia is 135 mm whereas in failed traction link this dia was 133 mm.
11. ELS/TKD: Touch screen kiosk of SLAM has been made operational outside PPIO. Maintenance staff can get the job card status, like work going on, work completed & pending work, of the specific locos, available in the shed.
12. ELS/TKD: In conventional locos, CCF is required in gear case for lubrication of bull gear and TM pinion which remains in solid form on lower temperature. It has to be melted to liquid form for topping up in gear case. Previously, about 20-30 ltrs. of kerosene were needed to heat up CCF. Kerosene as a fuel was causing pollution as well as there was always the danger of fire hazard. To get rid of this problem, the shed has developed an electric oven with its own resources, using which, about ₹ 36,000/- per month have been saved.
13. ELS/Itarsi (ET): SMGR section has started SMGR testing By applying critical pulse of duration 10, 20, 30 and 40 ms to detect ½ notch sticking.
14. ELS/ET: UST (Ultra Sonic Testing) of Suspension Bearing has been started to detect internal flaws/ poor bonding.
15. ELS/ET: Modification is being done in traction motor sump cap length and orientation to prevent damage of TM power cable due to sharp edge of its cap.
16. ELS/New Katni Jn (ELS/NKJ): IGTT (Individual Group Traction Testing) of traction motor has been stopped in final testing of locos which have undergone IA & IB schedule and this has resulted in saving of two man-hour per loco. Further ready forecast time of loco has been reduced by one hour i.e from 23:00 hrs to 22:00 hrs.
17. ELS/NKJ: RAP modification of layout of power cable from TFP to RSI as per RDSO/ELRS/SMI/237 dt. 20/01/06 has been completed in all ELS/NKJ based locos.
18. ELS/NKJ: RAP modification of MPCS based loco control circuit for connections for auto regression bypass switch (HPAR) has completed in all 74 locos as per RDSO modification no. RDSO/2014/EL/MS/0430 rev'0' dt. 20.01.14.
19. ELS/ NKJ: Commutator Profiler Measurement of Hitachi Traction motor has been started for measuring MBTB (maximum bar to bar height variation) & TIR (total indicator run out).
20. ELS/NKJ: Bearing vibration measurement of PE & CE also started for TAO & Hitachi Traction motor.
21. ELS/NKJ: Two compact type RSI of three parallel bridge of M/s High Volts has been modified by four parallel bridge at shop floor by the shed staff and supervisor. This modified RSI is planned to commission in loco no. 28030 which is having three parallel bridge compact type RSI.
22. Computer Based Three Phase Loco Trouble Shooting Module has been provided in New Katni Jn. Lobby to enhance knowledge of ALP/LPs for trouble shooting of three phase locos. This will ensure crew availability and averting failures of three phase locos. Also, no ALP/LP will be sent to others Railways for Simulator training.

23. Earlier, Crew Management System (CMS) developed by CRIS at Kota Crew lobby was not having facility of interfacing of BA & Biometric Identification device. Interfacing of Breath Analyser and Biometric Identification Device with CMS has been done. LCD Projector with Audio-Video System has been installed in Training Centre at Kota Lobby which is helpful in imparting effective training to ALP/LPs.
24. As per recommendations of Khanna Committee, SMS facility has been started by Kota div. to give fast feedback to LPs regarding action taken by concerned department for defects reported by Loco Pilots through defects/deficiencies register provided at lobbies. There is good response from running staff for the facility provided.
25. Gradient charts and Station diagrams of Kota division with actual replica have been prepared by TRO / Kota. This will help in smooth train operation specially on gradients and very useful tool in train operation for crew.
26. Vigilance Control Device (VCD) has been provided in "Loco Model" at Basic Training Centre in the shed for training purpose.
27. Anti-fatigue mats below loco pilot seat in loco cab are being provided for greater comfort and less fatigue, improving performance of loco pilots who spend long hours on their feet.

## **6.2 Traction Department**

1. PTFE Neutral section has been provided on Obaidullaganj/TSS of Bhopal div. on Up & Dn road.
2. To achieve proper height of OHE, catenary wire was strung by RE over the structure of bridge no.134 (Parvati Bridge) between Motipura Chauki (MTPC) - Dharnaoda (DHR) stations of Kota–Ruthiyai section. Though, there was clearance of 320 mm against stipulated 250 mm, but to prevent catenary wire from strands broken due to flashing during stormy weather conditions & bird electrocution, which could have further resulted in supply interruption, existing catenary wire of six spans has been replaced with 390 m insulated catenary wire.
3. Kota div. has taken a task of replacement of old & obsolete technology based oil filled interrupters with vacuum type. Oil filled interrupters require more maintenance like filtering / replacing / topping up of oil and spare parts are not available in market. Vacuum type needs no oil and only quarterly schedule maintenance is required instead of monthly. Ten BMs received from M/s ALIND have been installed. To save the precious time & money existing base plate has been modified to accommodate new BM. For remaining 30 BMs, procurement cases have been processed by Tr.D. These will be replaced as soon as material is received.
4. Kota div. has provided separate Circuit Breaker with Relay Panel in Kota/SSP to segregate faulty system if happens in Kota yard, without disturbing supply of main line OHE because, CB at Kota/SSP will sense fault & trip away isolating only Kota yard without tripping supply from Gurla/TSS. Thus, running of trains will not be affected. The work has been executed departmentally as per guidelines laid down in Bd's letter no. 2001/Elect (G)/170/2 Pt.-I dt. 22.10.13.
5. Four DC Voltage monitoring relays have been provided in TSS' (Two each at Suvasara & Sawaimadhopur TSS).
7. During 1987, CGL make SF-6 circuit breakers (CB) were provided by RE which gave service of 25 yrs. & now due for POH/replacement. Kota div. (Tr.D) had awarded POH work to OEM i.e. M/s Crompton Greaves Ltd. of 12 CBs which has been completed & life of these equipments now extended for further ten yrs.
8. Kota div. was following a system of bulk procurement of HSD oil at non-subsidised rates for TWs & road vehicles through COS. HSD oil used to be stored in central Tr.D store depot at Kota and then collected by all depots in piece-meal as per their demand causing a lot of vehicle movement, payment of TA to employees, wastage of working hours. To save the precious time

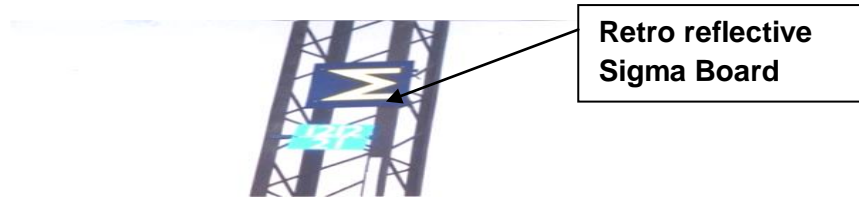
& revenue, Kota div./Tr.D has introduced a system of Diesel purchase by Fuel imprest directly from market instead of bulk procurement through COS and this has given due results by saving 828 lt. diesel & about 120 man days during a period of six months (Apr.-Sep.'14). Total saving achieved is ₹ 88,358/-.

8. Kota div.: If 230 V supply fails, auto change over panel (57 nos.) have no facility of buzzer & indication, which sometime results in failure of signalling system because ASM/SM remain unaware regarding status of incoming supply. To overcome this problem audio/visual indication on existing auto change over panel at three locations on experimental basis has been done & found very useful. Buzzer sound with light indication is observed when incoming AT or Local supply fails, ASM/SM can reset buzzer by pressing push switch and informing TPC for restoring supply. Work at balance locations will be completed very soon.



**Buzzer with  
light indication**

9. Kota Div.: TAP changer is integrated part of Traction Transformer which is used to control out- put voltage when in-put voltage goes up or down (113 kV to 138 kV). It has the feature of remote operation through a D.C. shunt motor whose field coil gets energized on un-charged condition of transformer when HV & LV CBs of transformer opened for changing the TAP. But to conserve the energy, transformers at every TSS are kept un-charged one by one, so field coil of D.C. shunt motor has burnt at SVA/TSS due to continuous over-heating. OEM was approached, but they didn't solve the problem. Tr.D team analyzed the problem and in-house modification in electric circuit of all nine TAP changers of 21.6 MVA transformers has been done to keep system in healthy condition.
10. Jabalpur Div.- 30 insulated net have been provided on Drop Arm and Boom of portals to prevent formation of Bird nests at Katni Murwara & Rithi yard.
11. Bhopal div.: New numerical control and relay panel has been provided at Talvadiya TSS. DC supervision relay has been provided at Harda & Khirkiya TSS.
12. Auto change over panels are being utilised for automatic selection of 230 V electric supplies from UP-AT, DN-AT, Local & IPS at all Rly.stations. Looking to the failures/burnt of selector switches, yearly predictive inspection of Auto change over panels by Thermo Vision Camera has been initiated from Apr.'2014. This has given very good results as the failures have become NIL during current year as against nine failures during last year. Some snapshots of Auto change over panels taken at ALNI, SWM & SWM'D' are given below, which needed attention and made fit by taking prompt action, averting failures.
13. 544 Retro Reflective SIGMA boards have been provided in Kota-MTJ & Kota-Ruthiyai (fog prone) sections of Kota div. at desired locations at starter, if portal location then it is provided on DA to facilitate easy identification of signals by locopilots.



222 boards out of 250 have been provided between Bina-Guna & Bina-Ganjbasoda section of Bhopal div. and work is in progress.

### 5.3 General Services-

1. At Ghatara station of Jabalpur div., water for station & quarters was taken through contract from outside agency. Now, one five HP submersible pump working on 15 kVA DG set, has been installed in Barmi River near Ghatara station for water supply to station & staff quarters.
2. Electrification of Vijaysota Stn. has been done by availing 11 kV supply from MP Discom.

## 6. Reliability Improvements:

### 6.1 Loco

1. ELS/Itarsi: In order to enhance the reliability of MPCS in locomotives, a special drive has been launched to identify and weed out the defective spare input and output cards of MPCS in locomotives w.e.f. 16.3.2015 and 17 locomotives have been checked, so far. In the process, one spare input and one spare output card has been identified and replaced with healthy cards
2. ELS/Tughlakabad: Five WAG<sub>9</sub> locos, received from CLW, were having double slings to secure brake hangers. However, it was not a proper arrangement as in case of one sling getting detached, the brake hanger could have fallen down. Shed has replaced double slings with single sling in four locos, so far. Material for balance one loco is being arranged.
3. ELS/NKJ: To avert burning of SMGR auxiliary switches in loco, solid earthing of SMGR connection plates has been started and 74 locos have been completed.

### 6.2 Traction Department

1. Three Numerical DC supervision relay have been provided at Sukhisewaniya, Obaidullaganj, Powarkheda TSS' and one numerical feeder protection at Obaidullaganj TSS.
2. One **numerical transformer protection relay** has been provided at HV & LV CB of Transformer-28 at Gulabganj TSS, which has reduced trippings.
3. At present 12.5 MVA traction transformers are protected by static type over current relays with only one stage overload setting at 750 A (150% of full load current of transformer) in three seconds. To avoid relay tripping due to overload conditions, Kota div. had earlier provided numerical type relays in existing conventional relay panel in HV & LV side of 12.5 MVA transformer at Ramganj Mandi/TSS and now at Hindauncity & Gangapur city /TSS. Now, trippings on overload at above TSSs have become "NIL".
4. DC supervision relay has been provided at Obaidullaganj & Gulabganj TSS' of Bhopal division. Four DC Voltage monitoring relays have been provided in TSS' (Two each at Chhabragugor TSS & Baran TSS) of Kota division.
5. Kota div. is following scheduled predictive maintenance practices through thermovision inspection. With this procedure some unexpected hot spots were observed during the month in Bus Bar Connector at BJK/SSP, which was attended on top priority.

6. UST testing of axle of three TW (Khandwa, Khirkiya & Harda depot) have been carried out at Itarsi AC loco shed.
7. There were couple of panto entanglement cases on 19.04.14, due to heavy wind & storm on Up & Dn line between Lakheri–Amli stns. To avoid recurrence, anemometers for wind velocity measurement are provided on top of building of Chhabra gugor & Lakheri TSS. Through SCADA, its indication is made available at TPC/Kota, who can alert on duty TLC/ATNL regarding heavy wind & storm in section for information to train drivers in section. Hon'ble GM/WCR has appreciated this effort done by Tr.D/Kota during his annual inspection of Ruthiyai-Kota section done on 28.03.15.

### 6.3 General Services

M Power System- Kota division has started controlling of pumps with mobile sim and starter at three distant stations. This system is also being used to control escalator at Kota station. If any miscreant activity happens, it is automatically indicated to electric control, Station Manager and Commercial Control, and can be started immediately after taking care of problem.



- Provision of Solar Panels-

SN	Item	JBP	BPL	KOTA	WCR
1	Solar water heater	10	9	16	35
2	Solar panel at LC gate	175	121	39	335
3	Electrification of station with solar system with stand by supply	14	17	11	42
4	Wind-Solar Hybrid system (wind generator 650 W & Solar panel of 150 W)	0	0	1	1
5	Distilled water plant	0	0	2	2
6	Electrification of Railway Quarters/Colony by Solar	1	1	1	3
7	Solar based LED street lights at stations.	17	3	--	20
8	Solar Light Pipe	2	4	0	6

## 7. Innovations:

### 7.1 Loco

1. Pneumatic test bench has been developed in-house at ELS/New Katni (NKJ) to test valves fitted in triplate panel.
2. ELS/Tughlakabad(TKD) has made arrangement for provision of power supply to corridor lights through external source to provide better illumination during schedule inspection of loco thus improving quality of maintenance with improved visibility.
3. ELS/Itarsi(ET): A fixture has been developed for measurement of ovality on commutator of TM armature to reduce flashing cases.
4. ELS/TKD: Indigenously developed MU Coupler Test Bench has been commissioned for checking continuity of cables in MU couplers for forming multiple units of WAM<sub>4</sub> as well as WAG<sub>5</sub> class of locomotives, saving time and manpower.
5. ELS/TKD: Upper face of bogie nose in M/s Ved Sassomechanica make bogies is having sharp bend which leads to development of crack and thereby failure of locomotive. The curvature is being increased by suitable method as advised by the firm. Out of 20 bogies, work in 11 WAG<sub>9</sub> bogies of has been completed by the shed and in nine WAP<sub>7</sub> bogies completed by the firm.
6. ELS/TKD: Has developed test bench for Traction Motor Temperature Sensor, with its own resources. This test bench will certainly help in improving the reliability of temperature sensors.
7. ELS/TKD has developed a test jig for on-load testing of power supply cards i.e. KUB921A01 of CEL (VCU) rack. This will help to test regulation of power supply card and also check during fault of lifesign missing by multiple processor cards simultaneously.
8. Computer Based Three phase Loco Trouble Shooting Module has been provided in Sagour lobby/Jabalpur div.. This will help to increase knowledge of LPs and ALPs for trouble shooting of three phase locos which will result in crew availability and failures of three phase locos may be avoided. Also, no ALP/LP will be sent to others Railways for Simulator training.
9. ELS/TKD: There have been failures of TFP and SR cooling radiators of three phase locomotives which may be due to vibrations arising out of OCB working which is mounted on the casing itself. Shed has provided additional support to drum of OCB thereby reducing the vibration level to a great extent. This arrangement has been provided in loco 31170 (WAG<sub>9</sub>) on trial basis.
10. ELS/ET: VCD test bench was commissioned for testing VCD main unit in the section itself instead of taking the unit to locomotive.
11. ELS/TKD: Classification of electronic cards into Red, Yellow and Green zone has been done based upon frequency of their failures. This will help in weeding out the cards causing repeated failures, thereby, improving the reliability of the cards.
12. ELS/NKJ: A newly developed non-contact type OHE Voltage Sensor Device is under testing. This device will ensure charged/discharged condition of OHE and very economical as its manufacturing cost is only ₹ 1200/- w.r.t to that (₹ 5500/-) purchased from market by Rly.
13. ELS/TKD: To improve reliability, Shed has developed test jig for electronic cards of E-70 Brake system with its own resources.





## 7.2 Traction Department

1. In Jabalpur div. all four TSS' are unmanned and cases of theft inside the control room have happened. To prevent theft, a monitoring system has been provided which give alarm/indication at RCC during opening & closing of gate/shutter of TSS.
2. A computer based software has been developed by Tr.D/Jabalpur div. to monitor various maintenance activities of Tr.D which will be useful to monitor overdue maintenance of assets.

## 8 Electrification of Track

- 1) Electrification of ET-Katni-Manikpur incl. Satna-Rewa and Manikpur-Chheoki (RKM-653 viz.WCR-561 & NCR-92, TKM-1611 viz. WCR- 1395 & NCR- 216) (PB Item no. 49/2013-14) is being done by CORE/ Allahabad,  
Present status of work:

(i) Detailed estimate amounting to ₹ 861.34 Cr has been sanctioned vide Bd's letter no. 2013/RE/161/6 dt 16.07.2013.

(ii) Tender position of above work is as under:

Electrification of above section has been planned to be completed in four groups as below-

Group	Section	RKM/TKM	Present Status
173A	COI-MKP (NCR)	92/ 216	Tender awarded vide LOA no. ELCORE/T/OHE/Gr 173A/127 dt 30.08.13 to M/s. SIPS-CEC(JV), New Delhi amounting to ₹ 53.20 Cr with PDC of 24 months i.e. 30.08.2015.
173B	MKP-STA - Rewa	127/309	Tender awarded vide LOA no. ELCORE/T/OHE/Gr 173B/129 Pt I dt 15.01.14 to M/s. CIPL-Cobra (JV), New Friends Colony, New Delhi 110 025, amounting to ₹ 60.42 Cr with PDC of 32 months i.e. Sept '16.
174	STA-JBP	189/ 470	Tender awarded vide LOA dt 21.03.14 to M/s. CIPL-Cobra (JV), New Friends Colony, New Delhi 110 025, amounting to ₹ 94.75 Cr with PDC of 36 months i.e. 30.03.17. (Tender no. ELCORE/T/OHE/ Gr.174 opened on 23.05.13).
175	JB-ET	245/ 616	Tender no. ELCORE/T/ OHE/Gr.175 re-opened on 25.02.2014.

### 2)Electrification of Missing Links :

Board vide letter no.2008/RE/161/8 dt.05.08.08 had advised WCR to submit estimate of following missing links.

#### i) NKJ-SGRL (New Katni Jn.-Singrauli) :

Estimate has been recast with an amount of ₹ 288 cr., (TKM 373.184) due to reduction of S&T cost by CSTE/WCR. RoR has been worked out which comes out to be 18.72%. This section is included in Blue Book prepared and circulated by Bd. for electrification. Proposal has been sent to Bd. vide letter no. WCR/L/04/8312/KTE-SGRL/RE dt.23.02.12 duly approved by GM/WCR.

#### ii) Maksi-Ruthiyai & iii) Guna- Gwalior :

As per budget speech of Minister of Railways in Feb,2012, Maksi- Ruthiyai & Guna-Gwalior routes have been sanctioned survey for electrification in 2012-13.

Survey cum feasibility report for Guna-Gwalior section (RKM- 227.46 km., cost- ₹106.15 Cr.) and Vijaypur - Maksi section (RKM-188, cost- ₹100.77 Cr.) has been sent to Rly. Bd. for sanction on dt.29.12.12.

#### KOTA - Chanderia section:

Rly. Bd vide their letter no. 2008/RE/161/Vol-iii(FTS-15731) dt.29.05.2013 had asked WCR to submit cost cum feasibility survey report. Estimate for electrification of KOTA - Chanderia section prepared costing ₹ 134.93 cr. (TKM-175, RKM-153 Electrical cost of ₹ 93.94 cr.) with an

RoR 27.43% has been prepared and submitted to Board on 07.03.14. Misrod : Setting up of workshop for repair / rehabilitation of motorised bogies of elect. rolling stock (PB 542) – Detailed estimate has been sanctioned on 20.09.14, and work has been transferred to RVNL for execution.

#### 9. Economy in expenditure:

Savings due to meticulous monitoring the power factor for non traction HT connections, for maintaining PF above 0.95 for traction connections, on account of interest on security deposit from MPSEB & JVVNL, availing discounts for prompt payments and savings from regeneration. Total savings achieved during 2014-15 is ₹ 49.46crs.

- **Energy Saving:**

Description	2011- 12	2012-13	2013-14	2014-15	%age var.
Non traction rebate	1.217	1.606	1.564	2.69	71.9
JVVNL rebate for 132 KV	6.309	8.715	8.270	8.223	-0.56
Rebate <i>pf</i> above 0.95 by MPERC	2.603	9.963	13.41	14.76	10.06
Interest on Security deposit by MPREC	2.725	5.526	4.781	5.514	15.33
Incentive @0.25% for early payment by MPREC	1.049	1.192	1.047	1.181	12.79
Incentive @ 5% for Baran TSS by JVVNL	0.841	0.716	0.689	0.769	11.61
Incentive @ 10% for GUNA TSS by MPPVCL	1.242	4.749	4.417	5.041	14.12
Saving due to energy regeneration by three phase Locos	2.327	4.456	6.965	6.515	-6.46
<b>TOTAL</b>	<b>18.313</b>	<b>36.923</b>	<b>41.14</b>	<b>44.69</b>	<b>8.62</b>

Note: MP Electricity Regulatory Commission has notified the Public notification for petition no.4/2014 in news paper on 13.2.14 & also on their official website [www.mperc.nic](http://www.mperc.nic). for ARR & Tariff Proposal for FY-14-'15. MP Discom's have not proposed any tariff hike for Railway traction category & tariff of FY 13-'14 to be applicable for FY-14-'15.

WCR have contributed immensely in preventing traction tariff hike by logical presentation and constant persuasion with MPERC and filing of Appeal in APTEL against Tariff order for FY 12-'13.

Thus, Tariff for traction has not been hiked continuously for two years. Financial saving is more than ₹ 150 cr. which has off loaded demand no.10 and improved operating ratio of WCR & other Railways.

1. By meticulous monitoring power factor for non-traction HT connections, for maintaining *pf* above 0.95 for traction connections, on account of interest on security deposit from MPSEB & JVVNL, availing discounts for prompt payments and savings due to regeneration by three phase locos, total savings achieved upto Feb.'15 are ₹ 45.31 Crs..
2. Rly. has received ₹ 11,38,000/- as sundry income on account of power block charges from Jabalpur transmission company Ltd. for 765 kV over head power line track crossing at location no. 1112/9-11 and 1112/10-12 between Patharia-Aslana section of Jabalpur div.
3. Contract demand of Gulabganj TSS (20 to 19 MVA) & Sukhisewaniya TSS (21 to 19.5 MVA) have been reduced from 01.01.15. Due to this ₹ 6.30 lacs has been saved.

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## 6. यॉत्रिक / MECHANICAL

### 1. Workshops

#### I. WRS KOTA:

- To carryout POH of BG Air Brake Casnub Bogie wagons including special stock such as BLL/BLC, BTPGLC, 4 Wheeler Tower Wagon. Rebuilding of BOXN wagon with Mild steel & up-gradation & rehabilitation of BOXN wagons using IRS M-44 (Stainless steel), conversion of BOXN to BOXNHAM, Retro fitment of twine pipe brake system in BOXNHL, BCNHL and BVZI wagons, ROH of BTPN & BTPGLN wagons.
- Kota workshop is the only workshop in Indian Railway nominated to do POH /ROH of LPG wagons.
- Supply of wheel sets to divisions.

#### II. CRWS BPL:

- To carryout MLR of AC & Non AC coaches.
- Conversion of PCV into ART/ARTME Van
- POH of WCR owned Inspection carriages.
- IOH of AC & Non AC coaches of WCR.
- Supply of wheel sets to divisions.

### 2. Diesel Loco sheds of WCR and their holdings are as under: (Holding as on 31.03.2015)

Shed	WDM2	WDG 3A	WDM 3A	WDM 3D	WDP4B	WDP4D	WDG4	WDG 4D	WDM2 INF.	WDS6	Accident/U/R /U/cond.	Total
ET	13	0	67	43	08	21	00	00	02	23	3	180
NKJ	09	121	42	0	0	0	13	02	0	0	8	195
Total	22	121	109	43	08	21	13	02	02	23	11	375

### 3. I. Major carriage and wagon depot.

Sr. No	Division	Coaching depot	Wagon depot
1.	JBP	Jabalpur, Rewa	NKJ, Satna
2	BPL	Bhopal, Habibganj, Itarsi, Bina	Itarsi
3	KOTA	Kota	Kota

#### II. Infrastructure Growth

##### A. Addition to Rolling stock during 14-15

Particulars	Additional Account	Replacement Account	CAP Account	DRF Account	Deposit work	Bond Account	OYWS Account	Head of Account not received
Locos	21	-	-	-	-	-	-	-
Coaches	34	15	1	10	-	-	-	-
Bogies 4 Wh	-	-	-	-	-	-	-	-
Tfd from other Rlys	-	-	-	-	-	-	-	-
Wagons	-	-	-	-	-	-	-	-
Wagon 8 -Wh	-	-	-	-	11	16	-	63
Wagon 4-Wh	-	-	-	-	-	-	-	-

## B. Wagons Built by Manufacturers and Railway Workshop during 14-15

Name of the Firm	CAP/DRF	Type	Nos. in Vehicles units	Nos. in 8 Wheelers Units
M/s Modern Industries	BOND	BTPGLN	16	16
M/s CWM, Jamalpur	Deposit Account	BOXNHS	11	11
Total			27	27

### III. Disposal of overaged Rolling stock.

#### (i) No. of WCR Locos put off lines during 2013-14 and 2014-15

DIESEL LOCOMOTIVES (BG)	
2013-14	1
2014-15	25

#### (ii) No. of coaches and wagons put off line during 2013-14 & 2014-15

Year	Broad Gauge	
	Coaches	Wagons
2013-14	33	7
2014-15	83	8

#### (iii) Number of coaches and wagons put off and No. of new coaches and wagons put on during 2014-15.

S.N.	Particulars	Broad Gauge	
		Coaches	Wagons
1.	No. of coaches and wagons put off the line during the year	83	08
2.	No of coaches and wagons tfd to other railway during the year	NIL	NIL
3.	No. of coaches and wagons put on the line during the year	60	27
4.	No. of coaches and wagons transferred from other railway to WCR during the year	NIL	NIL
5.	Missing wagons BG & NG and coaches NG deleted after reconciliation	NIL	NIL

## 4. Modernization of workshops and repair depots

#### (i) New works sanctioned 2014-15 (Pink Book works costing above ₹2.5 Cr. Each)

S.N.	PH No.	Name of work	Allocation	Cost in Cr. of ₹
(a)		Running sheds		NIL
(b)		Workshop		NIL
(c)		C&W depots		NIL

#### (ii) A) Works completed in 2014-15 (Pink Book works costing above ₹ 2.5 Cr. Each)

S.N.	PH No.	Name of work	Allocation	Cost in Cr. of ₹
(a)		Running sheds		NIL
(b)		Workshop		NIL
(c)		C&W depots		NIL

**B) New Machinery & Plants (Costing above ₹ 1 Cr. Each) sanctioned in M&P Programme 2014-15 at a total cost of ₹ Crores.**

SN.	Description of Machine	Qty.	Allocation	Cost in Cr.of ₹
1.	Cylindrical Axle Grinding Machine	1	DRF	4.66

**(iii) PASSENGER OPERATION**

- ❑ Contract for mechanized cleaning of coaches and depot premises has been awarded by JBP, BPL and Kota divisions of WCR and work under process.
- ❑ Facility of On Board House Keeping Services (OBHS) has been provided in following 7 trains.
  1. 12181/82 JBP-JP Exp.
  2. 11447/48 Shaktipunj Exp.
  3. 12189/90 Mahakoshal Exp.
  4. 11463/64/65/66 Somnath Exp.
  5. 11449/50 JBP-JAT EXP.
  6. 12187/88 Garibrath Exp.
  7. 12059/60 KOTA-NZM Janshatabdi Exp.

In addition to above 11 more trains have been identified for providing OBHS services. Out of these 11 trains tender is under finalization for 07 trains.

- ❑ Linen supplied in AC coaches are being washed by contractors who are having state of art Mechanical laundries. One such dedicated laundry has been setup in Railway premises at JBP and for KOTA and JBP proposals are under process.
- ❑ Tenders for pest and rodents control has been awarded by all the three divisions of WCR to reputed agencies. Progress of the work is satisfactory.
- ❑ IMS, Integrated Management System: (combined certificate of ISO 9001:2008, ISO 14001:2004 & OHSAS 18001:2007).
  1. CRWS/ BPL- w.e.f. 13 April 2011.
  2. WRS/ KOTA w.e.f. 12 Aug 2013.

**IV. MAINTENANCE AND USAGE OF ASSETS.**

**1. Rolling stock under or awaiting repairs:**

**(i) Percentage of locomotive under or awaiting repairs (Diesel Electric BG):**

Description	Avg. No. on line	Avg. under repairs		In Mech. W/shops		Stabled in Sheds awaiting W/shops repairs		In sheds and transportation W/shops		In transit	
	No.	No.	%	No.	%	No.	%	No.	%	No.	%
2013-14	335	31.42	9.38	-	-	-	-	-	-	-	-
2014-15	342	33.56	9.81	-	-	-	-	-	-	-	-

**(ii) Coaching stock.**

**Broad Gauge**

Description	Avg. no. of line	Avg. under repairs		In Mech. W/shops		Stabled in sheds awaiting w/shops repair		In sheds and transportation w/shops		In transit	
	No.	No.	%	No.	%	No.	%	No.	%	No.	%
<b>2013-14</b>											
PCVs	1204	61.16	5.08	51.87	4.31	0	0	9.29	0.77	0	0
OCVs	14	0.58	4.13	58	4.13	0	0	0	0	0	0

Description	Avg. no. of line	Avg. under repairs		In Mech. W/shops		Stabled in sheds awaiting w/shops repair		In sheds and transportation w/shops		In transit	
	No.	No.	%	No.	%	No.	%	No.	%	No.	%
Total	1218	61.74	5.07	52.45	4.31	0	0	9.29	0.76	0	0
<b>2014-15</b>											
PCVs	1243.08	60.86	4.9	53.34	4.29	0	0	7.52	0.61	0	0
OCVs	13	0.12	0.93	0.12	0.93	0	0	0	0	0	0
Total	1256.08	60.98	5.83	53.46	5.22	0	0	7.52	0.61	0	0

### (iii) Wagons

Description	Avg. no. of line	Avg. under repairs		In Mech. W/shops		Stabled in sheds awaiting w/shops repair		In sheds and transportation w/shops		In transit	
	No.	No.	%	No.	%	No.	%	No.	%	No.	%
<b>Broad Gauge</b>											
2013-14	11248.75	770.72	5.89	357.75	2.73	0	0	412.97	3.5	-	-
2014-15	12546.2	774.85	6.18	370.42	2.45	0	0	404.43	3.22	-	-

## 2. Rolling stock turned out after repairs from Workshop

### (i) Coaches (In terms of 4 Vehicler units)

Particulars		MLR OF COACHES			
		2013-14		2014-15	
PCV	Non AC	529		523	
	AC	50		56	
OCV	RD	2		7	
	ART	6		1	
	ART/RA/RT/RE	5		10	
	Total	592		597	
IOH of Bogie (coach set)	Non AC	178		171	
	AC	66		77	
	Total	247		248	

### (ii) Wagons (In terms of vehicle units) BG

Particulars	POH/ROH/Rebuilding	NPOH	Total
2013-14	4750	471	5221
2014-15	5018	304	5322

### 2.1 Avg. No. of Calendar days taken for repairs in shop per vehicle for last two years are as under

Particulars	2013-14	2014-15
NON AC	34.27	33.51
AC	43.26	43.96
Wagon	11.49	10.97

## 2.2 Cost of repairs in Shops (in Rupees)

Particulars	Broad Gauge		
		2013-14	2014-15
Avg. Cost of MLR of Coach	N /AC	₹34.49 Lakhs	₹34.49 Lakhs
	AC	₹46.00 Lakhs	₹46.00 Lakhs
Avg. Cost of conversion of ART/ARTME			₹22.00 Lakhs
Avg. POH Cost of Wagon in Rs.		₹2,57,047	₹ 2,72,259 (up to Jan-15)

## 3. Diesel Engine Failures (BG WCR)

Year	Total No. of ST Failures	KMs (in lakh)	Average KMs per STT failure
2013-14	279	517.15	1.853 Lakhs
2014-15	272	490.38	1.803Lakhs

## 4. Hot Boxes

### Broad Gauge

Description	Total No. of Hot Boxes	Responsibility			% variation of total No. of Hot boxes over previous year	No. per ten million vehicle kilometers
		WCR	Other Rly	Unfixed		
<b>2013-14</b>						
Coaching	1	1	-	-	+83.33	
Goods	77	5	67	5	+30.63	
Total	78	6	67	5		
<b>2014-15</b>						
Coaching	9	2	7	-	-800	
Goods	100	7	85	8	-29.87	
Total	109	9	92	8	-	

## 5. Important features of workshops

During the year 2014-15 repairs to coaches and wagons were under taken in the following workshops.

### A. Wagon repair shop KOTA

- i. **Out -Turn:** The out turn of POH and heavy repairs to wagons in BG during 2014-15 as compared to 2013-14 is as under in terms of vehicle units(vu)

Stock (Wagons)	2013-14	2014-15
POH	4440	4760
ROH+NPOH	781	562
Total	5221	5322

- ii. **The average daily out-turn during 2014-15**

Stock	Vehicle Units/Day
Wagon	18.04

- iii. **The average daily out-turn during 2014-15 as compared to 2013-14 (In VU)**

Type of stock	2013-14	2014-15
Wagons 4-Wheeler Unit	0.43	0.52
Wagons 8-Wheeler Unit	17.03	17.52

**iv. Improvement in Quality:** A special emphasis had been paid to improve the quality of work during the financial year 2014-15. 100% wagons were passed by NTXR/KOTA in 2014-15. Local passing was NIL. All the wagons had been passed by NTXR.

Parameters	2013-14	2014-15
Avg % of local passing of wagons	NIL	NIL
Sick marking within 90 days of POH of wagons	1.4 %	1%(Up to June15)

**v. Heavy Repairs :** During the year 2014-15 heavy repair, Viz re-flooring, End wall ,Side wall etc. are as under:.

S.N.	Item of Work	2013-14	2014-15
1	Wagon re-flooring BOX/BOXN	859	502
2	Complete renewal of side wall end wall, doors and flooring of BOXN wagons (RSP Work)	84	180
3	Up gradation & Rehabilitation of BOXN wagon using IRSM-44 steel	206	78

**vi. Disposal of over-aged (OA)/ under-aged (UA) rolling stock (in VU) other railways.**

Item(BG)	2013-14	2014-15
(O/A) Wagon	32	31
(U/A) Wagon	93	87

**vii. Rolling stock and other scrap auctioned**

S.N.	Scrap auctioned	2013-14		2014-15	
		No.	Amount (₹ in lakhs)	No.	Amount (₹ in lakhs)
1	Condemned wagons	307	116,5248	307	116.87
2	Miscellaneous under frame and trolley	-	-	-	-
3	Scrap wheels with axles	996.45	345,33	2240.59	746.40
4	Machines scrapped /Portable machine		-	-	-

**viii. Energy conservation**

**a) Energy conservation of Kota workshop**

Description	Unit	Consumption		Saving in %age
		2013-14	2014-15	
Electricity	kWh	22,29,600	23,29,220	-

**b) Energy conservation of Kota workshop**

Description	Unit	Consumption per VU of out-turn		Saving in % age
		2013-14	2014-15	
Electricity	kWh	427.04	437.66	-

**B. CRWS/BPL**

**(i) Out-Turn:** The O/T of MLR of Coached during 2014-15 as compared to 2013-14 is as under.

Particulars	Type of Coaches	MLR OF COACHES	
		2013-14	2014-15
PCV	Non/ AC	529	523
	AC	50	56



Particulars	Type of Coaches	MLR OF COACHES	
		2013-14	2014-15
OCV	RD	2	7
	ART	6	1
	RS/RA/RE	5	10
	<b>Total</b>	<b>592</b>	<b>597</b>
IOH of Bogie (coach set)	Non/ AC	178	171
	AC	69	77
	<b>Total</b>	<b>247</b>	<b>248</b>

**(ii) Avg Daily out-turn During 2014-15 as compared to 2013-14**

Year	Coach/Day
2013-14	1.99
2014-15	2.02

**(iii) Improvement Improvement in Quality:** A special emphasis was paid to improve the quality of work during 2014-15 such as (i) Double earthing has been provided from the welding plant to the earth pit in body shop.. (ii) Modification of lavatory door. (iii) Arrangement of push type flushing valve in lavatory of coaches etc.

**(iv) Progress of RSP work:**

Sr. No.	Description	2013-14	2014-15
1.	Conversion of coaches for ARTs	6	1

**(v) Scrap Disposal (In Metric Tonnes)**

Items	2013-14	2014-15
Ferrous	6754.305	7847
Non-Ferrous	177.30	195

**(vi) INNOVATION/SYSTEM IMPROVEMENT DURING 2014-15**

**March-2014**

**1. अभिनव कार्य : HHP Locomotive Inlet and Discharge Valve Remover-**

ET shed is facing problem in dismantling and assembling of HHP locomotives compressor inlet and discharge valve as it is of different design. One gadget is designed and fabricated by ET shed staff to facilitate easy dismantling and assembling of these valves.

**2. अभिनव कार्य : MU Receptacle Test Kit-** While formation of multiple unit, no device was available to check proper signals at both control stands from MU Jumper Cable and MU Receptacle. To overcome the problem, a kit has been developed using shed resources. With the help of this kit, control signals, loco propulsion, engine speed signals, wheel slipping, sanding etc. can be checked.



### 3. अभिनव कार्य : Governor Booster Pump Motor Test Bench :-

Diesel Loco Shed Itarsi has designed and developed test bench for testing of Governor Booster Pump of HHP locos. Governor Booster Pump Motor Test Bench for Testing Performance parameter of motor like current drawn on optimum pressure, RPM etc. These motor are fitted on HHP locomotive for advance of fuel rack during starting of locomotives. During M36 schedule these motor are checked by the section after overhauling.

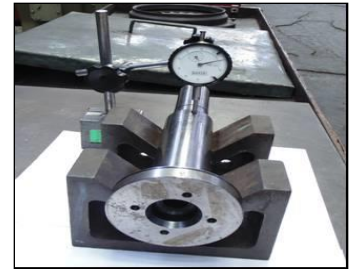


### 4. अभिनव कार्य : Development of Gadget for checking run-out of rotor shaft of 720 Alco TSC:

The NKJ shed has experienced jamming of rotor shaft assembly after overhauling and dynamic balancing. While investigation it was found that run out of rotor shaft assembly was excessive.

To improve maintenance practice, TSC section has developed a gadget to check run out of rotor shaft and rotor shaft assembly so that run out of rotor shaft assembly remains under 0.002" after overhauling.

This will improve the reliability of TSC. Photograph of the gadget is given below:



### 5. अभिनव कार्य : Clearance of outstanding sale suspense :-

WRS Kota workshop have cleared outstanding items worth Rs. 3.25 crores under (scrap) sales suspense, pertaining to Dy. CSTE/C, Dy. CEE(C) and RE Kota. This was part of our move to liquidate suspense entries from our accounts.

### 6. अभिनव कार्य: Strengthening of side wall near Doors in BCNHL wagon. to overcome bulging due to load inside the wagon.

**Background:** It was found while doing the retro-fitment of double sliding door in the BCNHL wagon no. NCR 33131117651 (first wagon on which the workshop is doing retro-fitment) has found that the side wall is bulged at both sides of the door. The bulging prevents the movement of sliding door. So, there is a requirement of removing the bulge and do the strengthening of side walls so, that bulge may not re-occur further.

**Innovation:** Along with modification in door arrangement of BCNHL wagon by replacing swing doors with Sliding doors, the side walls near the doors are being strengthened by providing ribs near the door to overcome bulging for smooth functioning of doors.

#### **Construction details:**

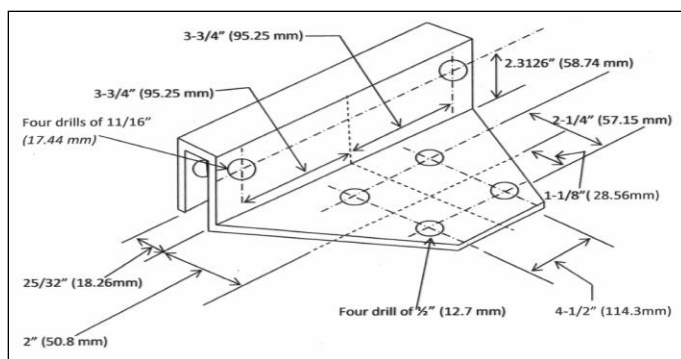
- 1) 03 no's of (469x40x4)mm CRF section.
- 2) 03 no's of (578x40x4)mm CRF section.

**Benefits:** This innovation is to make smooth functioning of sliding doors.

**Cost:** ₹ 3500/-app.

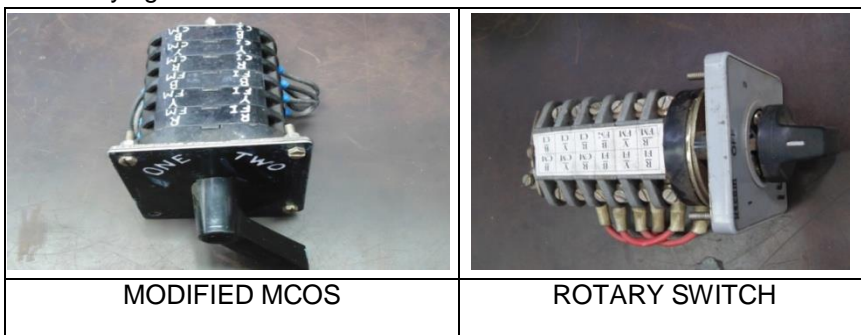
### 7. अभिनव कार्य : Gauge for checking correct location of FIP on FIP support

There have been various failures due to misalignment in fuel jumper pipe and high pressure line. In some cases, FIP base of different thickness has been noticed and maintenance staff was negating this difference by using multi gasket and gasket of different thickness which were resulting into other failures. To avoid such failures, a gauge has been developed by NKJ shed for the purpose to select only these base which are within the recommended thickness band.



#### 8. अभिनव कार्य :Rotary switch replaced with modified MCOS used in standby inverter for AC Fuel Pump Motor

Shed had started modification for provision of additional standby inverter for AC fuel pump motor so that in case of failure of FPM inverter, driver can change the position of rotary switch to another position as per RDSO modification sheet no. MP.MOD.EM-01.01.11 (REV.00) dated 17.02.2011. RDSO has suggested using 25 Amp. 6 pole 2 way DC rotary switches. NKJ Shed has converted MCOS (Motor cut-out switch) removed from E-type locomotive during retro fitment of MEP to this rotary switch. For carrying out this modification shed has used rectangular shaft and some other component. By this modification, MCOS which was of no use after MEP conversion has become very useful in carrying out RDSO modification.



#### 9. अभिनव कार्य :Installation of in-house turn table by CRWS/BPL

CRWS/ BPL in wheel shop incoming wheel sets need to be placed on a different track for overhauling. Earlier placement of wheel set was done using EOT cranes. This activity was dependant on availability of single EOT crane in wheel shop, which is used for handling axles & wheel sets for machine/pressing etc.

To reduce dependence on EOT crane, Wheel shop has developed a turntable using released material. Axle box assembly with bearing and axle has been placed vertically on foundation to carry out the function of turn table effectively. Handling of wheel sets has become safe and easy in this manner.

#### 10. अभिनव कार्य :Outsourcing of transportation of store material

The stock items were being transported from main receiving store to sub store wards of concerned shop by store workers which engaged man power as well as Rly vehicle. There is shortage of manpower in store. The burden used to come on Production staff.

Now CRWS/ BPL store department has given a contract to transport stock items from main receiving to store wards along with loading and unloading.

**11. अभिनव कार्य : WW Governor Power Piston Mounting & Dismounting Tool by ET/DSL/SHED**

WDP4 Locos are equipped with F-8572-828 type W. W. Governor. Diesel Loco Shed, Itarsi has developed a fixture for mounting and dismounting W.W. Governor Power Piston assembly with the help of available resources. This tool is helpful in improving work efficiency as well accuracy in maintenance of WW governor of WDP4B/4D locomotives.



**12. अभिनव कार्य : Manufacturing of grinding machine to polish test piece by CRWS/BPL**

To get desired result of spectroscopy testing, test piece is required to obtain a certain level of surface finish. This surface finish used to be achieved by rubbing the test piece manually on emery paper which was a tedious and also time consuming job.

A grinder has been manufactured in-house by available released material. In this grinder an emery belt is driven by 1 HP motor. Both ferrous and non-ferrous test pieces can be suitably polished.



**13. अभिनव कार्य : Arrangement of push type flushing valve by CRWS/BPL.**

Bio digester tanks are now fitted in coaches. The effective function of bio tanks mainly depends upon the availability of sufficient water during use. Push type flush valve fitted in coaches needs approx 7 Kgs. pressing force. Passengers feel inconvenience to operate the same, resulting insufficient quantity of water flushed in the Lavatory pan.

To overcome this problem, operation of flushing valve is eased by providing lever arrangement to the existing push type flush valve. By this improved method, flush valve can be operated at very low pressing force, 1.5 kg approx, and required quantity of water is released.



**14. अभिनव कार्य : Fixture for assembling and dismantling of BSS hanger with spring plank in ICF bogie fitted in BVZI wagon by WRS/ Kota.:-**

**Background (Present practice):** The assembly and dismantling of BSS hanger with spring plank in ICF bogie is a tedious work. In present practice, a load of approx 2 Ton is put on the spring plank to assemble or dismantle BSS hangers. In the present practice, one scrap bin filled with scrap of approx 2T was put on the spring plank by means of 20 T crane. This practice is very crude, laboursome and unsafe.

**Innovation:** The developed innovation is a very simple design assembly of a frame made of channel and screw and nut assembly.

This fixture is fixed over the bogie frame and the spring plank and tightened by means of the screw & nut assembly facilitating the assembly / dismantling of BSS hanger.

**Construction details:** The following scrap items were used.

Screw and nut assembly - 01

Channels ( 100 x 50 )mm 800 mm long- 02

Channels ( 100 x 50 )mm 400 mm long- 01

Equalising stay pin - 01

**Benefits:** Safe and easy to work with.

**Cost:** ₹ 1500/- Approx.



**15. अभिनव कार्य : Manufacturing of stainless steel channels for end top coping of BOXNHL wagons by Die and Punch by WRS/ Kota:-**

**Background:** Kota workshop has started getting Stainless steel wagon for POH. The top coping of these wagons are very often received repaired, because of damage.

**Innovation:** The tool room section of the workshop has developed a die and punch to make SS channel (175 x 55) mm for making the top coping. This die and punch is a very complicated structure. This innovation will help the workshop to make the top coping.

**Construction details:** The following items were used.

Base plate for Die - 01 no. of (2310 x 580 x 25) mm, 262 kg.

Die block - 02 no's of (2195 x 100 x 70) mm, 240 kg.

Triangular piece for Die block support –16 no's of (95 x 90 x 25) mm, 26 kg.

Base plate for punch - 01 no. of (2310 x 420 x 25) mm, 190 kg.

Side plate for punch - 02 no's of (2210 x 140 x 25) mm, 121 kg.

Top plate for punch - 01 no. of (2210 x 140 x 25) mm, 66 kg.

Above plates were profiled, machined, and assembled with welding and finished with grinding.

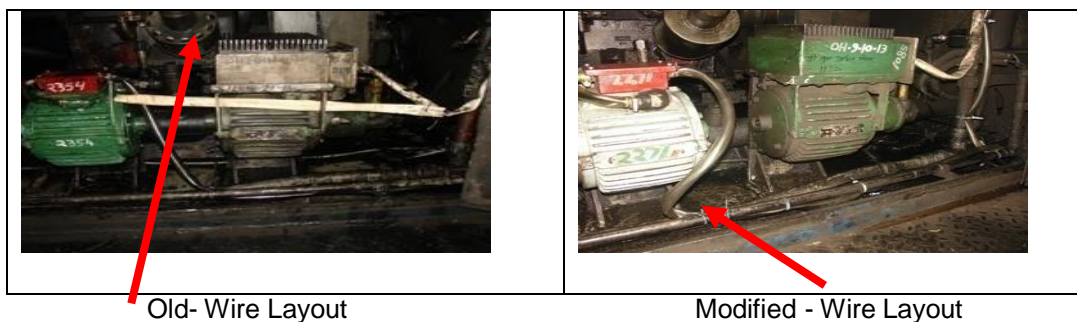
**Benefits:** Now, Workshop can make top end coping at own, as and when required.

**Cost:** ₹ 31000/- Approx.



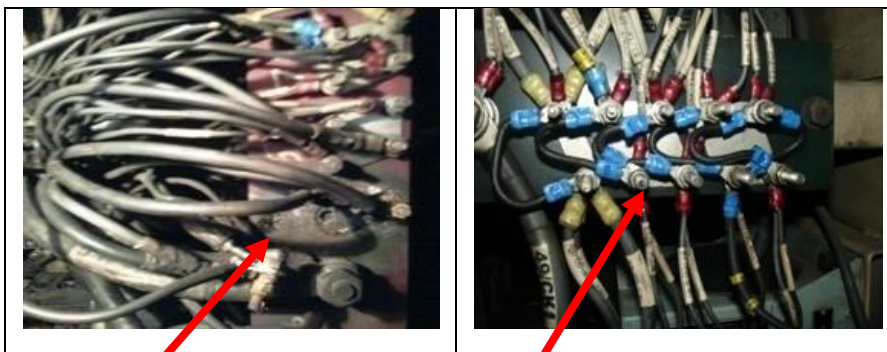
**16. अभिनव कार्य : Fuel pump motor harness layout modification by DSL/Shed/ET :-**

Loco no. 11340 had failed due to FPM not working and engine shutting down. During investigation it was noticed that RBY wires of FPM were torn after rubbing with pre-lube motor foundation bracket. In order to eliminate the recurrence of such failure a special drive has been launched by the ET shed. In this drive the layout of the RBY wire has been modified and passed through and secure in a PVC pipe. This innovation will eliminate the chances of recurrence of such failures in future. In this drive 08 locomotives have been covered so far.



**17. अभिनव कार्य: Provision of additional loops on back terminal of MEP locos DSL/Shed/ET :-**

The loco no. 14094 had failed on 15.08.14 in train no. 51765 in Satna – Manikpur section due to engine shutting down. During detailed failure investigation its 50 no. wire back terminal shorting plate was found burnt, as a result of which the positive supply of MEP got dis-connected and engine was shut down. In order to eliminate recurrences of such failures additional loops are being provided by ET shed on back panel shorting plate to ensure better connectivity. Hence this innovation will be helpful reducing the failure of due to above reason. In this drive 12 locomotives have been covered so far.



जली हुई बेक प्लेट

अतिरिक्त लूप के साथ मोडीफाईड -बेक प्लेट

**18. अभिनव कार्य: Provision of additional interlock in GFC for MEP feedback by DSL/SHED/ NKJ.**

In locos fitted with microprocessor based control system, shed was facing problem of load meter zero. After investigation it was found that due to malfunctioning or some delay in picking up of interlock of GFC, feedback signals were not received by MEP resulting in load meter zero. To overcome these problems, NKJ shed has started providing additional interlock parallel to GFC to transmit feedback signals to MEP system in case of malfunctioning of one interlock. So far 03 locos have been covered with this modification from July, 2014 in M-24 & M-48 schedules.



**19. अभिनव कार्य: Modification to end top coping of BOXNLW & BOXNHL wagons by WRS/**

**Kota:-**

**Background:** Top coping in BOXNLW & BOXNHL wagons are of stainless steel box section made of two 'C' section by welding. There are large numbers of cases of end top coping damage. These damages are occurring at the time of loading/unloading.

**Innovation:** To strengthen the hollow top coping rib/stiffener of stainless steel plates are being welded inside it during inhouse manufacturing of top coping. The following items were used. Stiffener stainless steels plates of size 142 x162 x4 mm.

**Benefits:** It strengthens the top coping.

**Cost:** ₹ 300/-

**20. अभिनव कार्य: Cleaning and Anti rust compound application inside Auxiliary Reservoir Tank by WRS/ Kota :-**

**Background:** As per RDSO G-97 manual during POH the auxiliary reservoir needs to be cleaned and then applied with anti rust compound. The construction of the auxiliary reservoir is

such that so far there was no equipment available in the workshop to apply the anti rust compound and application of anti rust compound to auxiliary reservoir was not being done.

This was also a pending item of RDSO quality audit.

**Innovation:** A spray gun attached with a small air pressure tank was purchased from the market. The gun is a long pipe with handle and jet. The gun can be inserted into the auxiliary reservoir through the side holes and anti rust compound can be sprayed inside. The length of the gun is long enough to cover the spraying on entire surface inside the auxiliary reservoir.

**Construction details:** The following items were used.

Anti rust compound RUS GUARD P-210

**Benefits:**

- 1) This is a quality requirement of RDSO maintenance manuals G-97 annexure V clause 2.3
- 2) It will reduce the rust inside A.R. tank hence life of A.R. tank will increase.

**Cost :** ₹550/-



**Oct-2014**

**21. अभिनव कार्य: Installation of pneumatic pipeline in paint shop by CRWS/ BPL.**

In paint shop, spray painting is done for which compressed air is required. In general, coaches are placed in line No. 1,2,3, but due to non-availability of pneumatic connection at line no. 1, coaches are required to be moved from line no. 1 to line no. 2 or 3.

This work leads to duplication of work and unnecessary movement of coaches. To overcome this problem, now 45 meters of pneumatic line with 7 pneumatic valves have been connected departmentally for line no. 1.

This pipeline has been installed in-house by Mill Wright staff with the help of available material.

With this development saving of time on account of shunting and better utilization of manpower with availability of more number of work stations have been achieved.

**22. अभिनव कार्य: Development of upward drilling machine for drilling in Head Stock Assembly by CRWS/ BPL:-**

Bio Tanks are being fitted in all the MLR coaches except BEML, SLR and departmental coaches at CRWS, Bhopal.

Now as per latest RDSO design, the Bio Tanks to be fitted with bolts hence it is decided to make provision of holes in the headstock assembly which are not being changed at CRWS, Bhopal.

For this work an upward drilling machine has been developed by Millwright Shop in-house with available recourses. This machine is capable of drilling the hole in upward position on the Headstock assembly of coaches. This machine is movable and can be transported/ placed beneath the coach at specific location to facilitate to make hole at desired location.

Two coaches have been turned out with holes drilled with the help of this machine.



### 23. अभिनव कार्य: Covered ventilated trolley for air plasma cutting machine by WRS/ Kota

**Background:** Air plasma cutting machines are used for cutting of stainless steel plates during repairing of stainless steel wagons. During repairing of wagons machines need to be taken from wagon to wagon on shop floor area.

**Innovation:** For easy movement of machine on shop floor a covered ventilated trolley is made. Both side walls of this trolley are made by fitting steel louver so that heat generated during working of machine dissipated in the environment and also protects plasma machine from dust. For safety of machine and its accessories a locking door arrangement is provided in this trolley. This door is facilitate taking in and out the machine from the trolley.

**Construction details:** The following scrap items were used.

1. Plates of size 1.6 mm
2. Plates of size 3.15 mm
3. Channels (100x50 mm)
4. Angles (50x50x6 mm)
5. Spring buckle -02 Nos.
6. Wheels -04 Nos.

**Benefits:** 1. Safe and easy movement of machine on shop floor.  
2. Machine kept locked on shop floor.

**Cost:** ₹ 700/-







**24. अभिनव कार्य: Provision of stainless steel cage in P-Trap for Bio-toilet to prevent choking by Coaching Depot HBJ( BPL Division).**

After introduction of bio-toilets, choking of bio-toilets has become a major issue since passengers are dropping polythene, bottles, nappys which restrict human waste to pass through in to bio-tank and leads to passenger complaint.

To overcome from this problem, Cage made from 05mm stainless steel rod size 120x140mm & 120 x 95mm have been inserted in P-Trap which can be lifted easily by using a hook. The cage stops approach of foreign objects dropped by the passengers and prevents choking of the bio-toilets. During maintenance, foreign objects dropped by passengers, deposits in the cage and can be easily lifted and removed. The cage is inserted deep at the bottom of toilet, hence not visible to user and submerged in water column of toilet, & hence waste does not deposits on it.

Stainless steel cage are being developed locally from released magazine bag.



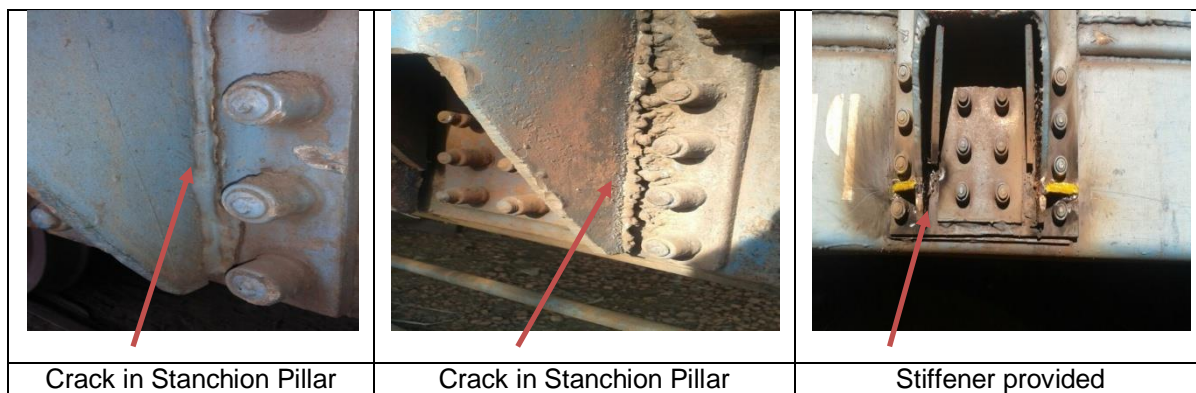
**25. अभिनव कार्य: Change in location of gravity cock by CRWS/ BPL.**

In view of ergonomics, the location of gravity cock has been changed from right hand side to left hand side in all wash basins of coach. This will help to use of wash basin more comfortably as many people are Right handed. Saving of 1.5 meter Ø20mm pipe is also achieved by this modification.

Existing location of gravity cock (Right Hand)	New location of gravity cock (Left Hand)	

**26. अभिनव कार्य: Prevention of the cracks at the bottom of the Stanchion pillars near door of BOXNHL by JBP Division.**

Cracks at the bottom of the Stanchion pillars near doors of BOXNHL wagons were observed and highlighted to RDSO. But no remedial action was taken. To prevent the cracks, staff of NKJ depot has started providing two stiffeners on the each Stanchion Pillars near doors. Photographs showing damages and remedial action taken is shown as below:



**27. अभिनव कार्य: Provision of magazine pocket by CRWS/ BPL.**

In AC coaches, Magazine bags are fitted in LP sheet panel using pop rivet. Due to working out of these pop rivets, whole panel area looks shabby. The nylon mesh Magazine bag is also not durable. To overcome this problem, M S Chrome plated Magazine pocket has been designed & fitted just below the luggage rack through nut bolt. This arrangement is suitable for four/six berth compartment in AC coaches. This magazine rack will be durable and can be easily replaced. Such magazine racks have been fitted in coach no. WC 02102 WGACCN.



**28. अभिनव कार्य: Energy conservation by CRWS/ BPL**

1. A saving of 6.68 % in energy consumption has been achieved upto Nov.14 compared to last year's consumption. It was achieved by strict implementation of energy conservation measures.
2. For energy conservation 80 nos LED street lights and 20 nos. LED high bay lights have been fitted in body shop.

**29. अभिनव कार्य: Fixture for retro fitment of two part sliding doors in BCNHL wagon by WRS/ KOTA.**

**Background**

The BCNHL door has undergone a series of modifications to add more and more improvement in its design because there have been complaints of breaking / damage and opening and hitting with OHE / Signal mast. Two part sliding door is the latest design and this is to be retrofitted to the existing damaged door of BCNHL wagon.

**Innovation:**

The two part sliding doors have been indented by Kota Workshop and the door system is being received in disassembled condition which broadly includes – doors (LH & RH), Top coping (2 nos.), Sliders assembly (containing slider, vertical rollers, horizontal rollers and bearings) (2 Nos.), bottom guide rail with transfer ball (2 nos.), guide rail stiffener plate (2 Nos.). These are to be fitted on the

BCNHL wagon body. Fitting directly on the wagon body is very tedious work. So a fixture has been devised where all the parts are first assembled and then the whole assembly is fitted as unit (LH & RH) to the BCNHL wagon body.

**Construction details:** The following scrap items were used.

- 1) Screw and nut assembly - 01
- 2) Base Channels ( 150 x 75 ) mm
- 3) Angles ( 50 x 50 ) mm
- 4) Base plate (10 mm)
- 5) Plate strips (8 mm)

**Benefits:** 1) Two part siding doors can be assembled with accuracy and ease and in less time.

2) This process is simple and safe.

Cost: ₹ 1500/-



### 30. अभिनव कार्य: Developed skid to restrict roll down of coaches on dummy bogie by CRWS/ BPL

A skid has been developed by Bogie shop to restrict rolling down of coaches on dummy bogie. The skid has been developed using released brake shoe key, chain of berth & a channel. Provision for hanging this skid has been made in one corner of dummy bogie (Head stock position). After shunting of coach, these skids can be put beneath the wheel. The channel aligns the skid to the track and the brake shoe key prevents the wheel from rolling. The chain is used to hang the skid on dummy bogie when not in use.

Provision of two skids in each end of bogie would prevent coach from rolling.



### 31. अभिनव कार्य: Lux Test Bench for led type classification light by NKJ Diesel Shed—:

During commissioning of new units of LED type Classification lights and also during overhauling in section, it is not possible to know the light intensity of the units. Sometimes it becomes difficult to ensure reliability of these units for next two years of service on locomotives. To overcome this problem and ensure reliability, a test bench for Lux measurement has been developed in line with the DLW specification DEL/SPN/192 dated 06.05.98 at NKJ shed. For this a close chamber is fabricated

and lux meter is used for measurement which should be more than 75 Lux at 1 meter for each white and red LED operation.

This innovation will ensure high reliability of safety in loco operation.



### 32. अभिनव कार्य: HHP Loco Mechanical unit injector calibration machine by ET Diesel Shed:-

“Unit Injector” is the most important part of the fuel system of EMD locomotives, which is a high pressure fuel metering pump and spray valve combined into one compact unit. In order to adjudge the functioning of various component of unit injector and also to check the rate of delivery of fuel from it, the calibration of injector is a pre-requisite. The calibration also ensures that the desired metered quantity of fuel is feeding in the system through injector.

One “HHP Loco Mechanical Unit Injector Calibration Machine” has been designed and fabricated by the staff of diesel loco shed Itarsi with the available resources. The market price of this machine 13 to 15 lacks. Hitherto the unit injector of HHP loco were being sent to Hubli shed for calibration. This activity not only consumes lot of productive man-hours of the unit but also increase substantial down time of HHP locomotive in shed. Hence this machine will be helpful in improving the overall productivity of diesel loco shed as well as will also be helpful in ensuring the efficient functioning of unit injector & control fuel consumption of loco as well.



#### IMPORTANT PARAMETERS:-

1. Calibration Fuel temperature: - 35-40 deg. Cent.
2. Calibration Fuel pressure :- 35 PSI
3. Constant speed (RPM) of machine:- 900+2 RPM
4. Unit Injector delivery in 300 strokes:- 280+ 03 CC

#### HHP Loco Mechanical Unit Injector Calibration Machine

### 33. अभिनव कार्य: Test Stand for testing Temperature Sensors of 3Ø a/c Traction Motor of HHP Locos by ET Diesel Shed

Synopsis –3 Ø a/c Traction Motors are used in AC-AC transmission system. Each motor is provided with individual temperature sensor, these sensors continuously monitor the temperatures of stators



of these traction motors using PT-100 type transducers probes. PT-100 indicates that the probe has resistance of 100 ohms at 0°C centigrade temperature and is made of Platinum (PT).

As the temperature of stator increases the signals sent by the temperature sensor causes torque reduction in loco thereby reducing the speed. For rise in 10°C temperature above 2000°C the Loco control reduces the torque by 3.3% and 100% torque is reduced at 2300°C. Hence proper working of these sensors help in reliability of HHP type locos.

Diesel Loco Shed Itarsi has fabricated one Test Stand for testing Temperature Sensors of 3 Ø a/c Traction Motors of HHP Locos using available shed resources.

All T/M temperature sensors can now be checked before putting into service and the sensors giving improper values can be removed from service before it can give any failure.



**34. अभिनव कार्य: HHP locomotive traction motor speed sensor test unit by ET Diesel Shed.**

Diesel Loco Shed Itarsi is homing 26 numbers HHP locomotive. These locos are equipped with 3 phase induction motor. Each 3 phase AC traction motor is equipped with one (dual) speed sensor to measure the speed and direction of locomotive. To check functionality of sensors, Diesel Loco Shed Itarsi has developed a Test Bench with the help of Oscilloscope. This oscilloscope is used to display and analyze the wave form of electronic signals. During testing Oscilloscope displays frequency, maximum voltage and time period in wave form so that the parameter of sensor can be checked properly.



By this development ET shed has become capable to check, calibrate and monitor the health of Traction Motor Speed Sensor. Hitherto the sensors had to be sent to M/s Medha for their testing and calibration.

**35. अभिनव कार्य: Development of test bench for testing common pipe bracket with control chamber by CRWS/ BPL.**

Common pipe bracket with control chamber is a part of air brake system fitted in under frame of coach. After fitment, air brake testing is done with the help of single car testing. But in case of any leakage from common pipe bracket the whole assembly is required to be removed, another one fitted again then tested with single car test rig again. This whole process takes time and repeating of fitment and testing activities.



To overcome, detention of coach on this account a test bench has been developed in air brake section along with auxiliary reservoir, distributor valve, and brake cylinder. Common pipe brackets

can be pre-tested with supply of 10 kg /cm<sup>2</sup> pressure, observing movement of piston of air brake cylinder, the common pipe bracket is passed for the fitment of coach.

**36. अभिनव कार्य: Test bench for LSD, APM, Quick coupling and Isolating cock of DV by WRS/ KOTA.**

**Background:** LSD and APM are modern equipments fitted on wagon. These devices replace the age old manual empty load device system. A need was felt to test these equipments after these are disassembled from wagon during POH and before refitting them to wagon.

**Innovation:** A test bench was prepared in-house utilising released air brake system components and measuring gauges. The test bench is capable to test the working of LSD and APM. In addition, quick coupling and isolating cock of sandwich plate of DV are also being tested in the same test bench.

**Construction details:** The following items were used.

- 1) Angles ( 50 x 50 ) mm
- 2) Base plate (5 mm)- 01 No.
- 3) MDF sheet- 01 No.
- 4) ½" Pipes and pipe fitting accessories.
- 5) Flexible rubber pipes with connecting sockets- 12 Nos.
- 6) Isolating cocks-08 Nos.
- 7) Air pressure gauges-06 Nos.
- 8) Pressure regulators

**Benefits:**

- 1) Defective component can be find out in lab and avoided from fitting on wagon so in this way we can avoid unwanted labour.
- 2) This process is easier and safe for testing these components.
- 3) It is a RDSO requirement as per para 4.2 of Annexure-IX of G-97 manual of Air Brake System for freight stock.

**Cost:** ₹9500/-

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## 07. चिकित्सा/MEDICAL

1. Medical department plays a fundamental role to rendering health and welfare services to Railway employees, their family members, dependents and retired railway beneficiaries. This department has upgraded its services with the modern equipments and latest technologies.
2. Super Specialty and Specialty services are being provided to the beneficiaries by Honorary Visiting Specialists and clling private doctor on case to case basis in Central Hospital, Jabalpur as well as in Divisional and Sub – Divisional Hospitals. In many fields such as Urology, Nephrology, Surgery and Medicine, the expert doctors and HVS are rendering their services in Zonal Central Hospital at Jabalpur.
3. Medical Department in Headquarter is headed by a CHOD, One SAG and Two SG Officer. There are three sanctioned posts of Gr. B (Jr. Scale) officers out of which two A Ph O's and One AHO & One D.O.(AHO) are working.
4. In WCR zone, the following medical infrastructure exists :

### I. Central Hospital, Jabalpur

### II. Jabalpur Division:

- 01 Sub – divisional Hospital at New Katni Jn.
- 06 Health Units.
- 01 Lock up dispensary at Pipariya.

### III. Bhopal Division:

- 01 Divisional Hospital
- 02 Sub – divisional Hospital at Itarsi and Bina.
- 05 Health Units.

### IV. Kota Division:

- 01 Divisional Hospital.
- 02 Sub – Divisional Hospital at Gangapur City.
- 07 Health Units.

### 5. Sanctioned Strength of Doctors:

Designation	Central Hospital Jabalpur		Jabalpur Division		Bhopal Divn.		Kota Divn.	
	S/S	Vac	S/S	Vac	S/S	Vac	S/S	Vac
Doctors	17	Nil	15	02	28	02	26	02
HVS	10	03	03	02	10	06	07	04
CMPs working	04		08		10		06	
House Surgeons	03	02	Nil	-	-	-	-	-

(H/C= Honorary Consultant)

### 6. Certain parameters of medical services of entire zone

(From 01.4.2014 to 31.3.2015)

S.N	Description	Numbers
1.	No. of cases treated in OPD	1126762
2.	No. of cases treated in IPD	23007
3.	Average Length of Stay per patient	4.4 days
4.	Bed Occupancy ratio	69.43%
5.	Diagnostic investigations	503724
6.	No. of CT scan & MRI	1441
7.	HIV tested	6435
8.	No. of confinements in Rly. Hosp.	153

S.N	Description	Numbers
9.	No. of Operations performed (Major- 893 Minor- 5279 excl. Trivial & Special- 26 )	6198
10.	Cataract operations	756
11.	Total No. of Medical examinations/Boards	
	a) Candidates	3776
	b) PMEs	10561
	C) Medical Boards	140
12.	Quality of drugs- Tests conducted	
	a) No. of medicines sent for analysis	196
	b) No. of result received	152
	c) No. of substandard reports	NIL
13.	Family Welfare Work	
	a. No. of sterilizations done (male & female)	90
	i. Vasectomy	15
	ii. Tubectomy	73
	b. No. of IUD insertion	74
14.	Health Activities	
	a. Food Samples	
	(i) Number collected under FSSA	121
	(ii) Collected under Quality Control	2286
	b. Water samples	
	(i) Bacteriological examination	3814
	(ii) Residual Chlorine sample tested	52578
15.	No. of passengers provided Medical Aid during journey/at Station/Yard etc.	3522

7. Machinery & Plant sanctioned during 2014-2015 & 15-16 (list enclosed annexure – I)

8. Works Programme sanctioned during 2014-2015 -Nil

9. Hospitals Recognized in Zone for Referral cases in emergency:

**Central Hospital Jabalpur:**

1. Jabalpur Hospital & Research Centre, Jabalpur
2. Jamdar Hospital, Jabalpur
3. City Hospital Research Center, Jabalpur
4. Escorts Fortes Hospital Okhla, New Delhi

**Jabalpur Division:**

1. MGM Hospital, Katni.

**Bhopal Division:**

1. Jawaharlal Nehru Cancer Hospital.
2. Bhopal Memorial Hospital & Research Centre.
3. Aradhana Maternity Hospital & Dialysis Centre.
4. BHEL-Kasturba Hospital.

**Kota Division:**

1. Kota Heart Institute Kota.
2. Sudha Hospital and Research Centre Kota

**10. चिकित्सा विभाग में घटित विशेष कार्यकलाप**

1. वर्ष 2014-15 के दौरान पश्चिम मध्य रेल के सभी रेल अस्पतालों के बहिरंग विभाग में 1126762 मरीजों एवं अंतरंग विभाग में 23007 मरीजों का उपचार किया गया ।
2. वर्ष 2014-15 के दौरान पश्चिम मध्य रेल के सभी रेल अस्पतालों में विश्व स्वास्थ्य दिवस, विश्व मधुमेह दिवस, विश्व निमोनिया दिवस, विश्व हेपाटाइटिस दिवस, विश्व जनसंख्या दिवस, विश्व एंटी मलेरिया दिवस, विश्व स्तनपान दिवस, विश्व अस्थमा दिवस एवं विश्व तम्बाकू निषेध दिवस इत्यादि मनाये गये ।



3. वर्ष 2014-15 के दौरान पश्चिम मध्य रेल के केन्द्रीय अस्पताल जबलपुर एवं विभिन्न मंडल रेल अस्पतालों में 26 विशेष आपरेशन जिसमें PNCL, Total Shoulder Replacement, Microdiscoideotomy, TLIF with pedicle screw, Topical Phaco Surgery for Cataract, Total Knee Replacement, Total Hip Replacement, ERCP आदि प्रमुख है। इसके अलावा 893 मेजर आपरेशन एवं 5279 माइनर आपरेशन भी किये गये ।
4. Role of DHEA on infertility, Screening for growth in Children , Male Infertility, Disaster Management, Toxmoplasmosis, Endocrine Up date Waste Disposal, First Aid & Role of Para Medics in Minor Surgical Procedures CPR & OT Preparation for Operation Duty & Responsibility, Health & Family Welfare in Railway Setup, Cold Chain Management and Life Style Disease and Management of Hypertension, Targeted therapy in cancer, Exploratory Laparotomy & Debulking of CA Ovary , Defined Mastectomy MRM with Auxillary Clearnce. आदि विषयों पर सीएमई कार्यक्रम आयोजन किया गया जिसमें चिकित्सा विभाग के अधिकारियों एवं पैरामेडीकल कर्मचारियों ने प्रमुखता से भाग लिया तथा विस्तृत जानकारी प्राप्त की।
5. वर्ष 2014-15 के दौरान पश्चिम मध्य रेल में कुल 54 स्वास्थ्य परीक्षण शिविरों का आयोजन कर कुल 2538 रेल कमचारियों तथा उनके परिवारजनों का स्वास्थ्य परीक्षण किया गया ।
6. वर्ष 2014-15 के दौरान पश्चिम मध्य रेल मे प्लस पोलियो कार्यक्रम के तहत कुल 49129 बच्चों को पोलियो की दवा पिलाई गई ।
7. केन्द्रीय अस्पताल जबलपुर में रेलवे महिला समिति के द्वारा वृहद् स्वास्थ्य जॉच एवं महिला कैंसर स्क्रीनिंग शिविर का आयोजन किया गया ।

(Annexure-1)

#### Machinery & Plant sanctioned during 2014-15 & 15-16, Railway Board

Sr.	Discription	Cost in 000's
1.	Ultrasonography with colour doppler (2014-15)	4785
2.	Fully Automatic Clinical Biochemistry (2015-16)	1696
3.	Computerized Radiography System (2015-16)	1680

#### Machinery & Plant sanctioned during 2014-15 GM (LSG)

Sr.	Discription	Cost in 000's
1.	Sami Automatic Biochemistry Analyzer	160

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## 8. परिचालन/OPERATING

### Coaching performance 2014-15

#### 1. Punctuality

Punctuality of Mail/Express trains is 88.73% for the financial year 2014-15 as compare to 87.86 for the same period of last year i.e. 0.99% above to last year.

Punctuality of Pass. trains is 85.75% for the financial year 2014-15 as compare to 84.91 for the same period of last year i.e. 0.99% above to last year.

#### 2. New Trains

New Train No 19805/19806 KOTA-UHP(Weekly) &, 51603/51604 BINA-KTE Passenger train and 22 passing over WCR new trains have been introduced during financial year 2014-15.

#### 3. Extension

Train No 12001/12002 New Delhi-Bhopal Shatabadi Express has been extended to Habibgang on 01-09-2014 and 51613/51614 KOTA-Damoh Passenger to KTE/KMZ. on 21-10-2014

#### 4. Augmentation

5 trains have been augmented on permanent basis by total 12 coaches (02 FACCW-4,FAC-2,ACCW-2,ACCN-2 & GSCN-2 on WCR in financial year 2014-15,

#### 5. Extra Coach

5752 coaches attached to clear rush during current financial year i in comparison to 3431 last year i.e 67.1% above including 160 on FTR.

#### 6. Special Trains on FTR:

103 Spl trains run on FTR in from April to March 14 fetching an earnings of 2495.60 lakh in comparison to 75, fetching an earnings of 1477.36 lakh in the same period of last year which is + 68.92% above to last year.

#### 7. Special Trains:

50 (690 trips) Special trains run from April to March 14 in comparison to 510 trips in the same period of last year i.e. 35.29% above to last year.

### Freight performance 2014-15

#### 1. Loading Profile

Cement, Clinker, Fertilizer, Lime stone, Food grains, Iron Ore, POL, Pet Coke and LPG are the main commodities being loaded from WCR.

Jabalpur Division is Loading Cement, Clinker, Lime stone, Food Grains, Iron Ore and other general goods. Cement is loaded from six plants (Birla, JP, Prism, ACC Kymore, KJS Maihar, Maihar cement Sarlanagar) located around Satna area of Jabalpur division, Iron Ore is loaded from Gosalpur, Kachhpura and Dundi, Limestone is loaded from Nanvara, Maihar, Meghgaon, Khanna Banjari, Jukehi and Ametha as Raw Material to Steel Plants. Coal is mainly loaded from Majhauri for J.P. Power house near Niwas road, Katni-Singrauli section of Jabalpur division. Container loading is also started from HIMB siding of Hindalco near Bargawan.

Bhopal Division is loading Fertilizer from NFL siding, LPG from GAIL siding, both sidings are situated at Vijaypur, POL from Bina refinery, Food Grains from Itarsi, Harda, Timarni, Banapura, Nishatpura, Pachore Road, Vidisha, Biyavra Rajgarh, Shivpuri, Salamatpur, Guna and Mandideep. Containers are loaded from ICD Mandideep.

Kota Division is loading Cement from Lakheri, Dadhdevi and Morak Cement sidings. Fertilizer from Bhonra siding and Food grains from Kota, Bundi, Baran, Mehidpur, Hindaun city and Bharatpur. Containers are loaded from ICD depot at Ravtha Road.

52 Goods Terminals are opened for goods traffic, which include 42 full rake capacity and 10 half rake capacity terminals. Total number of sidings is 57 including 48 full rake and 9 half rake sidings. Almost all the sidings have round the clock working.

## 2. Unloading

Jabalpur division has 13 major terminals for inward traffic. These are Deori, Katni Murwara, Turki Road, Cement Works sidings, Birla Corp, Satna, Maihar Cement Siding Maihar, Diamond Cement siding Damoh, Keymore siding Nanwara, Prism Cement Ltd, Hinauta Ramban, Kachhpura and Sagma. Inward traffic for these terminals are Coal, RMC and POL etc.

Bhopal Division has 9 major points dealing with Inward traffic namely MBPC, Itarsi, Nishatpura, Mandideep, Vidisha, Asok Nagar, Shivpuri and Guna. POL, Food Grains, Cement Coal and RMC etc. are received at these Goods terminals.

Kota Division is having 8 major points at Dadhdevi, Dhaurmui Jaghina, Kota, Bharatpur, Hindauncity, Baran Chhabra Thermal Power station and Kota Thermal Power House. Coal, and POL are unloaded at these points.

## 3. Loading Target and Actual Loading during the year 2014-15

1. During the FY year 2014-15 originating freight revenue target was 39.00.
2. During the year 2014-15, 40.52 MT of freight Loading was achieved which is 10.6% higher than 36.63 MT Loaded during 2013-14 and 3.9% below the Target of 39.00MT.

Particulars	Target 2014-15 (In MTs)	Loading (In MTs)		% Variation	
		2012-13	2014-15	TGT	Last Year
Originating Revenue Freight Loading	39.00	36.63	40.52	(+) 3.9	(+) 10.6

### ACHIEVEMENTS:

- a) During the FY 2014-15 a percentage increase of 5.9% in Cement, 38.1% in Food grain, 9.5% RMSP, 7.7% POL, 17.2% in Containers and 370.6% in Coal was achieved as compared to 2013-14.

A comparative table showing commodity wise increase in originating Freight Loading for the year 2014-15 over 2013-14 is as under.

SN	COMMODITY	Actuals		% Variation
		13-14	14-15	L/Yr
1	Cement	21.46	22.74	5.9
2	F/Grain	3.11	4.30	38.1
3	RMSP	1.26	1.38	9.5
4	POL	2.25	2.42	7.7
5	Containers	0.48	0.56	17.2
6	Coal	0.45	2.13	370.6
TOTAL		36.63	40.52	10.6

- b) Best ever cumulative revenue freight loading of 40.52 MT has been achieved during the financial year 2014-15 surpassing the previous best ever of 36.63 MT achieved in 2013-14. A percentage increase of 10.6% was achieved over 2013-14.
- c) During the month of January-15, best ever loading of 3.84 MT has been achieved, surpassing the previous best ever of 3.71 MT achieved during December-14.
- d) During the FY 2014-2015, revenue freight earning of ₹3833.91 crores has been achieved which is 14.4% more than ₹3352.18 crores recorded in the FY 2013-14.

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## 9. कार्मिक/PERSONNEL

Sr. No.	DESCRIPTION	Performance 2014-15
<b>MAN POWER PLANNING</b>		
<b>1</b>	<b>SANCTIONED STRENGTH</b>	
a	Sanctioned Strength as on 1st April-14	67,276
b	Sanctioned strength as on 31st March-15	66,282
c	Percentage increase or reduction during the period	<b>1.48%</b>
<b>2</b>	<b>OPERATED STRENGTH</b>	
a	Operated strength as on 1st April-13	56,944
b	Operated strength as on 31st March-14	56,406
c	Percentage increase or reduction during the period	<b>-0.94%</b>
<b>ESTABLISHMENT MATTERS</b>		
<b>3</b>	<b>COMPASSIONATE APPOINTMENTS</b>	
a	Number of cases pending as on 1st April-14	101
b	Fresh accrual during the period	388
c	Cases finalized during the period	443
d	Number of cases pending as on 31st March-15	46
e	Percentage finalization during the period	<b>114.18%</b>
<b>4</b>	<b>SETTLEMENT CASES</b>	
a	Number of cases pending as on 1st April-14	96
b	Fresh accrual during the period	3331
c	Cases finalized during the period	3350
d	Number of cases pending as on 31st March-15	77
e	Percentage finalisation during the period	<b>100.00 %</b>
<b>5</b>	<b>SURPLUS STAFF</b>	
a	Number of cases pending as on 1st April-14	0
b	Fresh accrual during the period	127
c	Cases finalized during the period	127
d	Number of cases pending as on 31st March-15	0
e	Percentage absorption during the period	<b>100.00%</b>
<b>6</b>	<b>VACANCIES IN SAFETY CATEGORIES</b>	
a	Number of cases pending as on 1st April-14	6630
b	Fresh accrual during the period	1589
c	Vacancies filled in during the period	1504
d	Number of cases pending as on 31st March-15	6,715
e	Percentage vacancies filled in during the period	<b>100.00%</b>
<b>7</b>	<b>DISPOSALS OF MP/MLA CASES REFERENCE FORWARDED BY BOARD</b>	
a	Number of cases pending as on 1st April-14	48
b	Fresh accrual during the period	418
c	Cases finalized during the period	412
d	Number of cases pending as on 31st March-15	54
e	Percentage Finalisation during the period	<b>98.56%</b>
<b>8</b>	<b>CAT/COURT CASES</b>	
<b>A</b>	Percentage of CAT/Court cases finalized	
a	Number of CAT/Court Cases pending at the beginning of the 1st April-	1,114
b	Accrual during the period	393

Sr. No.	DESCRIPTION	Performance 2014-15
c	Cases finalised during the period	344
d	Number of Cases pending as on 31st March-15	1,163
e	Percentage cases finalised during the period	<b>87.53%</b>
<b>B</b>	Percentage of CAT/Court cases decided in favour of Railways	
a	Cases finalized during the period	344
b	Total Cases decided in favour of Railway	317
c	Percentage of cases decided in favour of Railway	<b>92.15%</b>
<b>9</b>	<b>INDUSTRIAL RELATIONS</b>	
<b>A</b>	<b>Zonal Level</b>	
a	Number of items pending as on 1st April-14	280
b	No. of items tabled during the period	280
c	No. of items discussed and finalized during the period	309
d	Number of items pending as on 31st March-15	251
e	Percentage finalization during the period	<b>81.23%</b>
<b>B</b>	<b>Divisional and Workshop level</b>	
a	Number of items pending as on 1st April-14	778
b	No. of items tabled during the period	1,166
c	No. of items discussed and finalized during the period	1,080
d	Number of items pending as on 31st March-15	864
e	Percentage finalization during the period	<b>92.62%</b>

#### **WELFARE ACTIVITIES AT A GLANCE DURING THE YEAR 2014-15**

Description of Welfare activities which are going on in West Central Railway are as follows:-

##### **1. Education**

Rly Schools run by West Central Railway- three Higher Secondary Schools at New Katni Junction, New Yard Itarsi and Gangapur city. Two High schools are running at Loco Taliya Jabalpur and Near Rly Stadium Kota, One Primary school is running at Satna. About 94 Railway school teachers are teaching 2555 students.

**Activities organized by Schools** - In the summer holidays, every year the Rly schools organize Summer camps for the children wherein classes are held in which curricular activities like dance, yoga, spoken English, vocal music, calligraphy are taught. Other than this competitions and sports activities, educational tours for the teachers and children are organized. Training for games and sports, hobby development, environmental and health awareness, cultural activities, programme for improvement in handwriting and reading habits besides which lectures by local experts on disaster management, water harvesting and conservation of environment are also organised. All the schools publish their magazines/bulletins annually. Annual day sports are organized, the Schools also participate in CBSE's cluster and zonal tournaments. Scout and guide is a beautiful feather to the crown of Rly School, Itarsi, other schools have started to take interest in scouting activities.

The National festivals are celebrated with great enthusiasm by organizing functions. The work of Plantation of trees in the school premises has been started.

**Scholarships for Technical/Medical Education.** Children and dependent Brother/Sisters of Railway employees who are getting educated in the field of Technical/Non-tech Education are being awarded scholarships from the Staff Benefit Fund committee. Scholarship is also awarded to eligible students who acquire degree and complete training in Diploma courses, and also for Technical

Education conducted by the recognised institutes/Universities. The scholarships are awarded giving priority to the Group “D” staff and SC & ST candidates for the courses prescribed by Board, subject to availability of funds. In the year 2014-15 an amount of about ₹3,79,70,400/- (Three crores Seventy nine lacs, seventy thousand and four hundred) has been distributed for Technical/Medical Education & for the higher education of girls and male child of Group ‘D’ employees.

## 2. Railway Institutes and Clubs

24 Railway Institutes and 07 Recreation Officers Clubs are functioning on this Railway at different stations where there is a large concentration of Staff /Officers. SBF grant is paid to these Institutes and Recreation clubs for providing recreational activities to the employees. These Institutes and Recreation clubs are functioning quite satisfactorily.

### (i) Officers Club

Name and location of officer's Club	Member-ship
Satpura Club, Railway Station, Jabalpur	250
Simraul Club ,New Katni Junction.	24
Officer's Club Habibganj	93
Officer's Club New Yard Itarsi	24
Sanchi Officer's Club, CRWS Complex, Nishatpura, Bhopal	21
Officer's Club, Kota	90
Officer's Club, Tuglakabad	06
Total	538

### (ii) Railway Institutes

S.N.	Division	Name and location of Railway Institutes	Member-ship
1	Jabalpur	Sr. Railway Institute, Jabalpur	180
2		Jr. Railway Institute, Jabalpur	150
3		Railway Institute, New Katni Jn.	987
4		Railway Institute, Satna	250
5		Railway Institute, Damoh.	62
6		Railway Institute, Beohari	39
7		Railway Institute, Katni	21
8	Bhopal	Sr. Railway Institute, New Yard, Itarsi	121
9		Jr. Railway Institute , New Yard, Itarsi	450
10		Railway Institute, 12 Bungalow, Itarsi	229
11		Railway Institute, Bhopal.	1413
12		Railway Institute, Bina	309
13		Railway Institute, Guna	400
14		Railway Institute, Harda	119
15		Railway Institute, Vidisha	536
16	CRWS/BPL	Rly Institute, CRWS colony, Nishatpura, Bhopal	873
17	Kota	Sr. Railway Institute ,Kota	369
18		Sr. Railway Institute, GangapurCity	200
19		Jr. Railway Institute ,GangapurCity	130
20		Railway Institute, Bundi	110
21		Railway Institute, Bharatpur	130
22		Railway Institute, Shayamgarh	75
23		Railway Institute, Tuglakabad	350
24		Railway Institute, Sawai Madhopur	77

S.N.	Division	Name and location of Railway Institutes	Member-ship
		Total	7580

### 3. Social Welfare Centre

Handicraft centers and Welfare centers are functioning on this Railway in order to provide opportunity to Railway employees and their family members who can utilize their spare time usefully and in a profitable manner. The activities of these centers relate mainly to stitching of various garments/uniforms of Railway employees. There are 09 Handicraft Centers on this Railway, functioning in different Divisions & Workshops.

S.N.	Division	Name and location	Member-ship
1	Jabalpur	Social Welfare Centre, Bajrang Colony, Jabalpur	415
2		Social Welfare Centre, Adarsh Colony, Jabalpur	105
3		Social Welfare Centre, Subash Colony, Jabalpur	160
4		Social Welfare Centre, New Katni Jn.	906
5		Social Welfare Centre, Sagar	10
6		Social Welfare Centre, Satna	302
7	Bhopal	Social Welfare Centre, Itarsi	125
8		Social Welfare Centre, Bina	112
9	Kota	Handicraft Centre, Kota	71
	Total	09	2206

### 4. Community Halls

The following Community halls are available on this Railway for celebrating marriage ceremonies/ functions etc. of Railway staff and their family. Proposals have been routed by the divisions for new Community Halls at Katni, Gangapur city & Sagar, works have been sent for inclusion in Works programme.

Division	Community Hall
Jabalpur	Rly. Community Hall, Jabalpur
	Rly. Community Hall, NKJ
	Utsav Community Hall, Jabalpur
	Ullas Community Hall, Jabalpur
Bhopal	Vandana Community Hall, Itarsi
	Rly. Community Hall Habibganj
Kota	Rly. Community Hall, Kota

### 5. Holiday Homes

On this Railway, there is a Holiday Home at Pachmarhi which is a Hill station, situated at a distance of 54 Kms from Pipariya Railway station, the bus services to and from Pipariya to Pachmarhi are regular. This holiday spot is famous for its beautiful natural sceneries & beautiful waterfalls. The best period to visit this Holiday Home is from September to March. The allotment of this Holiday Home is done by APO (Welfare) Jabalpur Division. (Rly Phone no: 55706) . Another Holiday Home has been opened at Maihar, it is a pilgrim place, and the Rly employees who visit the Sharda Devi Mandir can book the Holiday Home on the above given no of APO/Jabalpur division. Another Holiday home is situated at Kota, near the Rly Station, Kota is a educational hub, where most of the students tend to go for coaching etc. The holiday Home is allotted by APO/Wel/Kota, Rly Phone no is 44722.

Division	Holiday Home
Jabalpur	Pachmarhi
Newly constructed	Maihar
Newly constructed	Kota

## 6. Canteens

A total number of 04 Statutory and 04 Non –Statutory Canteens are functioning on “No profit -No loss” basis over West Central Railway, for the benefit of staff.

Division/Workshop	Canteen
Workshop KTT	Statutory
CRWS W/S BPL	Statutory
DRM Office JBP	Non –Statutory
New Yard Katni	Non –Statutory
DRM Office BPL	All Contract Basis
DRM Office KTT	Non –Statutory
NKJ Diesel Shed, JBP	Non –Statutory
HQr's office, JBP	On Contract Basis

## 7. Subsidised Hostels

There is only one Subsidized Hostel on this Railway, which is situated at Railway Upper Line Colony, Jabalpur where the accommodation is for 28 students.

## 8. Creches

In year 2010, Railway Minister, Sushri Mamta Baneerji issued for opening of crèches for Rly Working women non school going children. One crèche was already functioning at Jabalpur, which is running for non-going children of Rly Working Women. An amount of ₹3,00,000/- was paid to the Crèche for maintenance etc.

## 9. Cultural Activities

For promotion and encouragement to cultural activities amongst the employees and their families, Cultural Academy is functioning at Headquarter and Division/Workshops. The Cultural Team of HQ, participates in Inter-Divisional, as well as other Cultural Competitions.

## 10. Central Staff Benefit Fund

The Management Committee of the Staff Benefit Fund plan various Schemes and allot funds to cover the following activities based on the per capita contribution. For better and efficient utilization and administration of the funds, Sub- Committees have also been constituted at Division and Workshops levels. Funds are allotted to these Sub-Committees as per their requirement and the activities are as decided by the SBF Committee of Headquarters level.

### (i) Railway Institutes and Clubs

The SBF Committee sanctioned funds for maintenance of these Railway Institutes and Clubs based on the membership. Financial aid of ₹10/-per members is being given to these Institutes from SBF.

### (ii) Relief of Distress and Sickness

Amount from the CSBF is disbursed for the sick etc as under:

#### (a) Maintenance Grant :

Financial assistance to provided relief towards maintenance grant to the non Gazetted Railway Employees who are on leave without pay due to Sickness like T.B./Leprosy/Cancer/ HIV+ve are sanctioned ₹5000/- P.M. and for other disease ₹ 2000/-



P.M. irrespective of basic pay. An amount of ₹35,0000/- was distributed to the divisions and the workshops under this head.

**(b) Reimbursement of cost of spectacles:**

To help Group D' employees who are required to use spectacles for carrying out their duties, a grant of ₹ 500/- or actual cost which ever is less is admissible. This is granted to all employee once in five years. This scheme is controlled by Divisional /workshop/ Headquarters Staff Benefit Fund Committee.

**(c) Reimbursement of cost of Dentures:**

Re-imbursement in respect of the cost of denture is granted to an employee once in a service. This scheme is controlled by Divisional/ workshop/Headquarter Staff Benefit Fund Committee. Amount is paid as under :-

Half Set	: ₹10000/-
Full Set	: ₹20000/-

**(d) Financial Assistance to the children of Railway Employees for Deaf, Dumb, Blind and Mentally challenged:**

Financial Assistance is granted to the Railway employees in respect of deaf, dumb, blind and mentally challenged children at the rate of ₹10000/-per child per annum.

**(e) Aid to Families of Deceased Employees:**

In case of premature death of an employee, a token grant of ₹5000/- is given to the family member until the child gets an appointment on compassionate ground or finishes schooling which ever is earlier. An amount □ 4,00,000/-has been disbursed in this head during the year.

**(f) Distress Fund:**

CSBF has started distributing ₹10000/- to family members of Group 'D' Railway person, who die due to accident or otherwise, this amount is given as help to the families of the deceased. This amount is not recoverable from the settlement dues.

**(iii) Women empowerment:**

W.C. Railway has planned for the benefit of working women employees for their higher education & for working knowledge. Camps for the working Women employees have been arranged by the divisions to places of natural beauty and Hill stations where they have been educated on rules and regulations of Railways & their work place. An amount of ₹50,000/- each has been allotted to HQ, and the Workshop at Bhopal and Kota, ₹1,00,000/- each to the divisions to spend for the empowerment of women.

**(iv) Homeopathic/Ayurvedic Dispensaries:** There are 09 Homeopathic & 01 Ayurvedic dispensaries functioning on this Railway on part time basis. These dispensaries are remain open every day from 9.30 to 13 Hrs and 16 Hrs to 19 Hrs. in the evening except on Sunday. Part time Doctors are engaged to maintain the dispensaries. ₹10,000/- is paid to each dispensary for purchasing medicines.

Following Hospitals are functioning on this Railway:

SN	Divn	Dispensary	Location	Name of Doctor & Qualification	Honorarium paid per month ₹
1	JBP	Homeopathic	DRM's Office, JBP	Dr.Alkesh Kumar Khatri MA/DHMS	24000/-
		Homeopathic	Adarsh Colony, JBP	Dr.Alkesh Kumar Khatri MA/DHMS	
		Homeopathic	Rly Hospital, NKJ	Dr. Ram Sagar Pandit	12,600/-
2	BPL	Homeopathic	DRM's office, HBJ	Dr. Prem Swaroop Shrivatava DHMS	24000/-
		Homeopathic	West Rly Colony, BPL	Dr. Prem Swaroop Shrivatava DHMS	
		Homeopathic	East Rly Colony Bina	Dr. Smt.Sangita Jain DHMS	24000/-
		Homeopathic	Yard Itarsi	Dr. Abhishek Soni DHMS	12600/-
3	KOTA	Homeopathic	Rly Hospital, Kota	Dr R.N.Bharadwaj DHMS	24000/-
		Ayurvedic	Rly Hospital, Kota	Dr. Ashok Sharma BASMS	24000/-
		Homeopathic	Rly Hospital GGC	Dr. Manav Jain DHMS	24000/-

S.N	Division	Hospitals	Health Unit
1	JBP	Central Hospital Jabalpur	New Katni Junction
		Katni	Narsingpur
			Satna
			Saugor
			Piparia
			Beohari
			Damoh
2	BPL	Bhopal	Guna
		Bina	Harda
		Itarsi	Shahjapur
3	KOTA	Kota	Bayana
		Gangapurcity	Bara
			Bundi
			Bharatpur
			Sawaimadhopur
			Shyamgarh
			Tuglakabad

**(v) Holiday Camps :**

Every year, SBF provides funds for conducting Holiday Camps for the children of non-gazetted staff belonging to Group 'C' & 'D' Railway employees at Zonal level as well as Division/Workshop level separately, for which an amount of ₹3 lacs is allotted for each camp.

During the year 2014-15, West Central Railway conducted holiday camps for the benefit of Railway employees and their children during the summer vacations. The details of the camps conducted by

Headquarters Office/Divisions/Workshops are as follows:

SN	Hdquarters/Divisions	Particulars of the Camp
1	Jabalpur	Conducted Children Camp to Dargiling
2	Kota	Conducted Children Camp to Dehradun/ Mussorie

#### 11. Women's Welfare Organisation:

There are following women's organisations functioning on this Railway:

**(i) Women's Welfare Organisation/HeadQuarter**

This Organisation is functioning for welfare of Railway employees and their families, through various welfare projects in the spheres of education, Medical Assistance, Vocational training, Assistance to the physically and mentally challenged children, Cultural field etc. This Organisation is running "Jagrati Centre" for rehabilitation of destitute children living on the platforms. The aim of this project is to bring these children to the main stream of the society. This Organisation gives financial assistance to maximum 05 daughters of class- IV Railway employees by giving them training of Nursing Assistance course, and scholarship to two meritorious children. Health awareness camps were also conducted by this organisation. Drawing and painting competition/Essay competition are held for the children of Rly employees in the age group of 6-9, 9-12, and 12-15 years respectively. Drawings of the Winners of this competition are sent to Rly Board.

**(ii) Women's Welfare Organisation - JBP Division:**

This committee is running a centre for mentally retarded and physically handicapped children. The centre has been fully equipped with teaching aid. One English Medium school up to class Xth recognised by the M.P. State Education Board is being run by WWO in various other activities/programmes are also organised by WWO from time to time.

**(iii) Women's Welfare Organisation - BPL Division:**

WWO/HBJ is running crèche at Rly. Colony HBJ for the benefit of staff working in the divisional office. Also drawing competition for the mentally challenged wards of the railway employees are organised on 15<sup>th</sup> August every year at Bhopal, Bina and Itarsi.

**(iv) Women's Welfare Organisation– KOTA Division:**

WWO/KTT is running a Kendra for women where stitching is taught, 6 monthly beautician courses are given to wives of railway employees. Drawing and Painting competitions are organized for the children of Railway employees. On 15<sup>th</sup> August one time scholarship is distributed to meritorious children of 8<sup>th</sup> 10<sup>th</sup> and 12<sup>th</sup> standard. On regular basis fruits are supplied by WWO to patients admitted in railway Hospital at Kota.

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## 10. जनसम्पर्क/PUBLIC RELATION

पश्चिम मध्य रेल में आयोजित निम्न कार्यक्रमों की खबर जनसम्पर्क विभाग द्वारा प्रेस विज्ञप्ति के माध्यम से प्रिंट एवं इलेक्ट्रॉनिक मीडिया को भेजा गया।

SN	Date	Important Events
01	09.04.2014	महाप्रबंधक महोदय द्वारा क्षेत्रीय राजभाषा कार्यान्वयन समिति की पुस्तक का विमोचन
02	19.04.2014	डॉ. भीमराव अम्बेडकर के जन्म दिवस पर महाप्रबंधक कार्यालय में कार्यक्रम
03	15.04.2014	<b>GM Award 2014</b> का वितरण समारोह
04	21.05.2014	आतंकवाद निरोध दिवस
05	27.05.2014	अपना स्टेशन अपनी ट्रेन निरीक्षकों की महाप्रबंधक महोदय के साथ बैठक
06	02.06.2014	चल लेखा निरीक्षक सेमीनार का आयोजन
07	09.07.2014	विश्व का प्रथम गोल्डन ट्री गार्ड का उद्घाटन समारोह
08	10.07.2014	मैम्बर इलेक्ट्रिकल का जबलपुर आगमन
09	11.07.2014	सी.आर.एस. श्री चेतन बक्शी का जबलपुर आगमन
10	18.07.2014	महाप्रबंधक महोदय के साथ <b>CCM</b> एवं तीनों मंडलों के वरिष्ठ मंडल वाणिज्य प्रबंधकों की बैठक
11	15.08.2014	स्वतंत्रता दिवस कार्यक्रम
12	19.08.2014	महाप्रबंधक महोदय द्वारा रेलवे स्टेडियम में स्पोर्ट्स कॉम्प्लेक्स का उद्घाटन एवं महाप्रबंधक कार्यालय के गार्डन में फव्वारे का उद्घाटन
13	20.08.2014	सदभावना दिवस पर महाप्रबंधक कार्यालय में शपथ समारोह
14	28.08.2014	माननीय सांसद श्री राकेश सिंह के द्वारा जबलपुर स्टेशन पर पेपरलेस चार्टिंग का शुभारंभ
15	04.09.2014	मेम्बर मैकेनिकल श्री जौहरी का जबलपुर आगमन
16	08.09.2014	चालक परिचालक विश्रामगृह का उद्घाटन
17	09.09.2014	हबीबगंज स्टेशन को विश्वस्तरीय स्टेशन बनाने हेतु <b>IRSDC</b> की महाप्रबंधक महोदय के साथ बैठक
18	14.09.2014	फाइनेंस कमिशनर के साथ <b>FA&amp;CAO</b> की बैठक
19	22.09.2014	त्रिमासिक पत्रिका चन्दायन का विमोचन
20	22.09.2014	<b>RPF</b> स्थापना दिवस कार्यक्रम
21	02.10.2014	स्वच्छ भारत अभियान के तहत अनेक जगहों पर साफ-सफाई कार्यक्रम
22	27.10.2014	सतर्कता सप्ताह के अन्तर्गत महाप्रबंधक कार्यालय में शपथ समारोह
23	31.10.2014	राष्ट्रीय एकता दिवस महाप्रबंधक कार्यालय में शपथ समारोह
24	07.11.2014	केन्द्रीय चिकित्सालय जबलपुर में कैंसर निदान शिविर का आयोजन
25	17.11.2014	त्रिमासिक पत्रिका चन्दायन का विमोचन
26	19.11.2014	महाप्रबंधक कार्यालय में कौमी एकता दिवस का आयोजन
27	22.12.2014	महाप्रबंधक महोदय के द्वारा जबलपुर स्टेशन के प्लेटफार्म नम्बर 5,6 के <b>RRI</b> पैनल का शुभारंभ
28	26.01.2015	गणतंत्र दिवस समारोह
29	26.02.2015	रेल बजट पर महाप्रबंधक महोदय के द्वारा प्रेस वार्ता
30	14.03.2015	जबलपुर स्टेशन पर नवनिर्मित प्रतिकालयों का उद्घाटन

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## 11. राजभाषा/RAJBHASHA

### राजभाषा का प्रगामी प्रयोग

पश्चिम मध्य रेलवे भारत सरकार की राजभाषा नीति के प्रभावी कार्यान्वयन और राजभाषा हिंदी के प्रयोग-प्रसार की दिशा में निरंतर सक्रिय है, वर्ष 2014-15 के दौरान राजभाषा हिंदी के प्रगामी प्रयोग हेतु किए गए प्रयास तथा उपलब्धियों का संक्षिप्त विवरण इस प्रकार है:-

#### 1. राजभाषा अधिनियम की धारा 3(3) का अनुपालन:-

अधिकारियों एवं कर्मचारियों को धारा 3(3) के अनुपालन के प्रति जागरूकता प्रदान कर, उन्हें समय-समय पर धारा 3(3) संबंधी दस्तावेजों की सूची उपलब्ध कराकर राजभाषा अधिनियम की धारा 3(3) का शत-प्रतिशत अनुपालन सुनिश्चित किया गया।

#### 2. मूल पत्राचार:-

पश्चिम मध्य रेल द्वारा 98.92 प्रतिशत मूल पत्राचार हिंदी में किया गया, इसेशत-प्रतिशत करने के प्रयास जारी हैं।

#### 3. हिंदी पत्रों के उत्तर:-

हिंदी में प्राप्त पत्रों के उत्तर नियमानुसार शत-प्रतिशत हिंदी में दिए गए, इसके अलावा 'क' एवं 'ख' क्षेत्रों के कार्यालयों से प्राप्त अंग्रेजी पत्रों के उत्तर भी हिंदी में दिए जा रहे हैं।

#### 4. कंप्यूटरों का द्विभाषीकरण:-

पश्चिम मध्य रेलवे पर उपलब्ध सभी 1898 कंप्यूटरों पर हिंदी में कार्य करने की सुविधा उपलब्ध है, अधिकारी एवं कर्मचारी कंप्यूटरों पर अपना अधिकाधिक दैनिक सरकारी कामकाज हिंदी में करते हैं।

#### 5. अनुवाद कार्य:-

राजभाषा विभाग द्वारा वर्ष के दौरान विभिन्न विभागों की पुस्तिकाओं, संशोधित स्टेशन संचालन नियमों, निविदाओं, फाटक संचालन अनुदेशों, प्रेस विज्ञप्तियों, संसदीय समितियों के आगमन पर विवरण पत्रकों और धारा 3(3) के अंतर्गत आने वाले विभिन्न पत्र-परिपत्रों आदि का अनुवाद कर संबंधित कार्यालयों को तत्परतापूर्वक उपलब्ध कराया गया।

#### 6. हिंदी कार्यशालाओं का आयोजन:-

कर्मचारियों द्वारा सरकारी कामकाज मूल रूप से हिंदी में करने के लिए उन्हें प्रशिक्षण देने के उद्देश्य से वर्ष के दौरान मुख्यालय/मंडलों/कारखानों में 32 कार्यशालाएं चलाई गईं जिनमें 920 कर्मचारियों को प्रशिक्षित किया गया।

#### 7. हिंदी कुंजीयन प्रशिक्षण:-

कर्मचारियों द्वारा सरकारी कामकाज कंप्यूटर पर मूल रूप से हिंदी में करने के लिए वर्ष के दौरान 48 कर्मचारियों को हिंदी कुंजीयन प्रशिक्षण प्रदान किया गया।

#### 8. अभिप्रेरण (मोटिवेशन):-

पश्चिम मध्य रेलवे के मुख्यालय एवं सभी मंडलों/कारखानों में राजभाषा विभाग द्वारा अधिकारियों एवं कर्मचारियों में राजभाषा हिंदी के प्रयोग को बढ़ाने के लिए नियमित अभिप्रेरण का कार्यक्रम चलाया गया। इस कार्यक्रम के अंतर्गत राजभाषा विभाग के कर्मचारी विभिन्न विभागों में जा कर अन्य कर्मचारियों की राजभाषा संबंधी कठिनाईयों को दूर कर उन्हें राजभाषा के प्रयोग के प्रति अभिप्रेरित किया गया।

### 9. राजभाषा कार्यान्वयन समितियों की बैठकें:-

पश्चिम मध्य रेलवे के मुख्यालय, मंडलों तथा कारखानों में राजभाषा प्रयोग प्रसार बढ़ाने और हिन्दी प्रगति की समीक्षा के उद्देश्य से गठित सभी राजभाषा कार्यान्वयन समितियों की बैठकों का नियमित रूप से आयोजन किया गया ।।

### 10. हिंदी पुस्तकालयों एवं वाचनालयों का संचालन:-

पश्चिम मध्य रेलवे पर कुल 47 हिंदी पुस्तकालय एवं 41 वाचनालय हैं, अधिकारियों एवं कर्मचारियों द्वारा इन पुस्तकालयों एवं वाचनालयों का भरपूर उपयोग किया जाता है। प्रतिवर्ष इन पुस्तकालयों के लिए हिन्दी पुस्तकों की खरीद की जाती है। इसके अलावा समय-समय पर ख्यातिलब्ध साहित्यकारों की जयंती तथा पाठक मंच की बैठकों का आयोजन भी किया जाता है।

### 11. पत्रिकाओं का प्रकाशन:-

पश्चिम मध्य रेलवे के मुख्यालय एवं सभी मंडलों/कारखानों में रेल अधिकारियों एवं कर्मचारियों तथा उनके परिजनों की साहित्यिक सृजनशीलता को बढ़ावा देने के लिए एवं अपनी रेलवे की उपलब्धियों व गतिविधियों को प्रत्येक कर्मचारियों तक पहुंचाने के उद्देश्य से 'राजभाषा सरिता', 'डीजल संवाद', 'मंडल संवाद', 'प्रगति पथ', 'चंबलवाणी', प्रयास आदि पत्रिकाओं का प्रकाशन किया गया, साथ ही इस रेलवे पर कई अन्य विभागीय पत्रिकाओं जैसे- संरक्षा दर्शन, सतर्कता बुलेटिन, चंद्रयान आदि का भी प्रकाशन नियमित रूप से होता है।



### 12. राजभाषा सप्ताह/पखवाड़ा समारोहों का आयोजन:-

राजभाषा विभाग द्वारा मुख्यालय तथा मंडल/कारखाना मुख्यालय सहित अन्य बड़े कार्यालयों तथा महत्वपूर्ण स्टेशनों पर हिन्दी दिवस, राजभाषा सप्ताह/पखवाड़े का आयोजन किया गया, इन समारोहों के दौरान विविध प्रतियोगिताएं, राजभाषा प्रदर्शनी एवं सांस्कृतिक कार्यक्रम भी आयोजित किए गए तथा राजभाषा हिंदी में सराहनीय कार्य करने वाले अधिकारियों एवं कर्मचारियों को पुरस्कृत किया गया।

**13. तकनीकी गोष्ठियों का आयोजन:-**

पश्चिम मध्य रेलवे पर कुल 94 तकनीकी गोष्ठियों का आयोजन किया गया जिनकी समस्त कार्यवाही हिंदी में संपन्न की गई।

**14. अधिकारियों द्वारा हिंदी में डिक्टेशन:-**

पश्चिम मध्य रेलवे के अधिकारियों द्वारा वर्ष के दौरान 82.32 प्रतिशत डिक्टेशन हिंदी में दिए गए।

**15. अधिकारियों/कर्मचारियों द्वारा हिंदी में नोटिंग:-**

इस रेल पर अधिकारियों तथा कर्मचारियों द्वारा 96.92 प्रतिशत नोटिंग हिंदी में की गई।

**16. हिंदी भाषा का प्रशिक्षण:-**

इस रेल पर कुल 550 अधिकारियों में से 549 अधिकारी हिंदी में प्रवीणता प्राप्त हैं तथा शेष 01 को कार्यसाधक ज्ञान प्राप्त है, कुल 47617 कर्मचारियों में 47502 कर्मचारी प्रवीण हैं तथा शेष 115 को कार्यसाधक ज्ञान प्राप्त है, 'क' क्षेत्र में स्थित होने के कारण यहां के अधिकारी एवं कर्मचारी अपना अधिकांश कार्य हिंदी में करते हैं।

**17. हिंदी आशुलिपिक एवं टाइपिंग प्रशिक्षण:-**

इस रेल पर कुल 167 आशुलिपिक तथा 423 टाइपिस्ट कार्यरत हैं। सभी टाइपिस्टों को हिंदी टाइपिंग का प्रशिक्षण दिया जा चुका है जबकि हिंदी आशुलिपि प्रशिक्षण के लिए 04 अंग्रेजी आशुलिपिक शेष हैं, इनके प्रशिक्षण की व्यवस्था की जा रही है।

**18. राजभाषा प्रोत्साहन योजनाओं का कार्यान्वयन:-**

इस रेल पर गृह मंत्रालय राजभाषा विभाग तथा रेलवे बोर्ड की सभी प्रोत्साहन योजनाएं लागू की गई हैं।

**19. अखिल रेल हिंदी नाट्योत्सव में पश्चिम मध्य रेल की प्रस्तुति "अभिज्ञान शाकुंतलम्" ने प्रथम स्थान प्राप्त कर पश्चिम मध्य रेल का गौरव बढ़ाया। इस नाटक ने सर्वश्रेष्ठ अभिनेता एवं सर्वश्रेष्ठ निर्देशक का पुरस्कार भी प्राप्त किया।**

इस प्रकार पश्चिम मध्य रेल राजभाषा प्रयोग-प्रसार हेतु सतत् प्रयत्नशील है।

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## 12. संरक्षा / SAFETY

### 1.0 Safety Organization of WCR

Railway Safety Review committee while reviewing the efficacy of the existing Safety Organization on the railways had recommended that the safety department should be made broad based and suitable officers from Traffic, Civil Engineering, Mechanical, Signalling & Electrical departments should be posted as safety officers at all levels. In pursuance, of the implementation of the above the following organization has been set up in the safety department of WCR.

**Chief Safety Officer** consent is being taken before posting / transfer from or to the safety department for both gazetted and non gazetted cadres. Safety Counsellors of Traffic, Civil Engineering, Mechanical, Signalling & Electrical departments are posted at HQ to assist in day to day working of safety department.

#### 1.1 Gazetted officers at HQ:-

Apart from the Chief Safety Officer Shri B.K.Gupta, who is from the engineering branch the following officers are presently posted in the safety department.

S.N.	Designation	Present incumbent
1.	Dy. CSO (Elect.)	Shri S. K. Agarwal
2.	Dy. CSO (Traffic)	Shri K.L. Mahavar
3.	SSTE(Safety)	Shri A.P.Singh
4.	SEN (Safety)	Shri S. B. Sharma
5.	SME (Safety)	Shri Rajendra Chaturvedi

#### 1.2 Gazetted officers at divisions: - At present following officers are working as Sr. Divisional Safety Officers on JBP, BPL and Kota division.

- (i) Shri L. L. Meena, Sr.DSO / JBP (Electrical)
- (ii) Shri Ravindra Sharma, Sr.DSO / BPL (Engineering)
- (iii) Shri B. S. Verma, Sr.DSO / Kota (Traffic)

Apart from Sr.DSO's one ADSO is posted in each division. Each Sr.DSO is assisted by ADSO and Safety Counsellors from various departments as well as clerical staff.

### 2.0 Safety Performance

#### 2.1 Position of Consequential Train Accidents :

S.No.	Category	2011-12	2012-13	2013-14	2014-15
1	Collision	Nil	Nil	Nil	Nil
2	Derailment	04	02	01	02
3	Manned LC	01	Nil	Nil	Nil
4	Unmanned LC	Nil	Nil	01	01
5	Fire	02	01	Nil	Nil
	Total	07	03	02	03

The number of Consequential Train Accidents increased from 2 to 3 (50%) during 2014-15 in comparison to corresponding period of the previous year. In one case, derailment was taken place due to CRO & in other case due to careless driving by Maruti car driver (failure of other than railway staff).

#### 2.2 Comparative accidents per million train KM:-

S.N.	Year	Cumulative train KM(In millions)	Total Accidents	Accidents per million train KM
1.	2009-10	62.16	03	0.05
2.	2010-11	64.74	02	0.03
3.	2011-12	68.36	07	0.10
4.	2012-13	67.46	03	0.04



S.N.	Year	Cumulative train KM(In millions)	Total Accidents	Accidents per million train KM
5.	2013-14	69.63	02	0.03
6.	2014-15	73.67	03	0.04

### 3.0 Steps taken on WCR to reduce accidents:

#### 3.1: Steps taken to reduce derailments:-

- **Night Patrolling of track introduced on WCR during winter:** Night patrolling by Two patrolmen per two km on double line and two patrolmen per four km on single line section. Earlier winter patrolling was being done in critical sections only. After introduction of patrolling the reporting of rail / weld failures by drivers through lurch has significantly reduced.
- To reduce proneness of Rail Fracture/Weld Failure at welded joints, free joints, glued joints etc. new Grooved Rubber Pads have been provided on two adjacent sleepers on either side of the joints. **(Introduced by Engineering department in WCR)**
- Distressing of temperature has been revised and fixed as per record of rail temperature available over a period of 8-10 years.
- Loop lines have been strengthened by carrying out CTR(S) and replacement of existing turnout in Katni – Singrauli, Katni – Bina & Bina – Ruthiyai section.
- **Special USFD done on critical sections:** which are fractures prone including USFD of flash butt joints which are older than 5 years. Also USFD testing of tongue rail done in addition to instructions available.
- 100% provision of joggled fish plates with 02 far end bolts at high bank, outer rails of curves and bridge approaches.
- Anti-corrosive painting of welds and fishing zone of J/FP.
- **Wheel Impact Load Detector (WILD) is installed at three locations on WCR:**  
**JBP:** At Karhaiya Bhadoli near Damoh (Bina-Katni Down line)  
**BPL:** (a) At Powarkheda near Itarsi (Bhopal-Itarsi UP line)  
(b) At KurwaiKethora near Bina (Bhopal-Bina Down line)

#### 3.2: Steps taken to reduce Collisions/SPAD cases:-

There was no collision occurred on the WCR since last two years. Following measure has been taken on WCR to prevent collisions and SPAD cases:

- **Monitoring of Reversal of Points (GR 3.38(2):** Safety drives have been launched for checking reversal of points after arrival of train at any station in terms of GR 3.38 (2). Daily monitoring of reversal of point is being done through data logger reports. Weekly ASM fault for not reversing the point has been reduced considerably since starting monitoring.
- **Monitoring of VCDs:** Functioning of VCDs are being closely monitored. It is being ensured that loco getting out of shed is with functional VCD. Frequent ambush checks are also being conducted to check the functioning of VCDs.
- **Securing of Stabled Loads:** Safety drives were launched to ensure proper securing of stabled loads and following common nature of irregularities detected and corrective action taken:
  - (i) Inadequate no of application of hand brake.
  - (ii) Improper use of chain.
  - (iii) Inadequate length of chain
- **Isolation of Main Line as single line sections** i.e. All stations has been completed on GUN- GWL section, 13 out of 18 stations on NKJ-SGRL section & 7 stations out of 10 stations on Guna – Maksi section has been completed.

- **Use of CUG Mobile:** CUG mobile phone in off condition during run for LPs is being selectively monitored through call details. Ambush checks have been conducted regularly. Special stickers have been pasted in all cabs in front of pilot seat to remind also.
- **Speed Gun:-** Ambush checks have been conducted regularly for checking over speeding in JBP, BPL and Kota by speed Gun.
- **Other steps taken:**
  - (i) Links were reviewed to reduce the continuous night duty from 6 nights to 4 nights working and now only 4 night continuous working is being permitted.
  - (ii) Running staff are counseled for signal calling out loudly, indicating name of station, signal name and signal aspect.
  - (iii) Ambush checks are being conducted at the signing off stations to ensure that LP/ALP do not start packing their belongings before the train is brought to halt at the signing-off stations.
  - (iv) Identification of alcohol prone LPs for taking reformatory measures and close monitoring. Surprise checks during run by BA equipment.
  - (v) Weekly Monitoring of 10 Hour working at HQ & daily monitoring at divisions.
  - (vi) ALPs are specifically being sensitized to keep a watch on over-speeding of their trains and inform LPs to act in time and also take timely action for controlling the train.
  - (vii) No staff overdue for PME / RC is allowed to perform duty.
  - (viii) Welfare Inspectors have been nominated to interact with families of running staff. Problems raised are being taken care of. Families have been counseled on the imperative necessity of taking adequate rest while at home before duty.
  - (ix) If any LP comes to duty after long leave/sickness of more than 15 days, nominated LI accompanies LP on first trip. Also, LPs coming to duty after availing leave are being booked after 06.00 hours (in day time) to the extent possible.

### 3.3: **Steps taken to reduce Fire incidences:-**

- All the SLRs of WCR based have been equipped with Master Switches in Guard compartment as per Railway Board's instructions. **(100% completed)**
- Flush type electrical fittings in luggage compartment of all WCR based SLRs have been provided as per Railway Board's instructions. **(100% completed)**
- All coaches of WCR based have been provided Over Voltage Protection Relays (OVPR). **(100% completed)**
- HRC and rewirable fuses as recommended by RDSO are ensured in every coach during primary maintenance.
- Earth leakage test of coaches is being ensured during primary maintenance.
- Provision of Fire Extinguishers: SLRs, AC Coaches and Power Cars. **(100% ensured)**
- Provision of wire-net in ventilator of GS coaches: It has been provided in all primary maintained GS & SLR coaches on the railway to prevent insertion of waste materials in ventilators. **(Introduced by Mechanical department in WCR)**
- As per Railway Board directives, a procedure to prevent fire in coaches due to illegal carriage of inflammable articles by passengers has been adopted by WCR. Any passenger/ staff through SMS/Call can convey information regarding inflammable articles being carried by any passenger on dedicated mobile no. (9752415555) for such purpose. Stickers were pasted in coaches of trains and platforms.
- **Attention to all mandatory items during Primary maintenance i.e.**
  - (i) No Loose joint/connection in wiring.
  - (ii) Over voltage protection relay in RRU.

- (iii) Proper fuse rating.
- (iv) Testing & checking of charging point.
- (v) Cleaning of FDB/JB.
- (vi) Checking of insulation and ground leakage.
- (vii) Switching OFF coaches on arrival & stabling unoccupied.
- (viii) Checking of Vane Relay.
- (ix) Testing & ensure working of sensor & OHP.
- (x) Cleaning of Filters.

**3.4: Steps taken to reduce Level Xing accidents:-**

- Sensitizing road users by:
  - (i) Counseling sessions. 11908 road users have been counseled during the year 2013-14 & 21158 during 2014-15.
  - (ii) Through SMS (5.5 million during the year 2013-14 & 6.6 million during the year 2014-15).
  - (iii) 215 nos. ambush checks conducted with the help of local police during the year 2013-14 & 250 during 2014-15.
- Ensuring availability of complete infrastructure at UMLCs.
- 38 nos. Nukkad Nataks were organized at strategic locations during the year 2013-14 & 33 during 2014-15.
- 15301 posters & handbills were distributed during the year 2013-14 & 33875 during 2014-15 among road user to cross UMLC in safe manner.
- 03 nos. of slides shown on TV in the year 2013-14 & 20 numbers slides shown on TV regarding safety in the year 2014-15.
- **By closure of LCs** 80 LCs during the year 2013-14 & 105 during the year 2014-15 have been closed.
- **By manning of LCs.** Total 7 number of LCs have been manned during the year 2012-13, 5 numbers during the year 2013-14 & 36 numbers during the year 2014-15.
- **Construction RUBs/LHS.** Total 27 numbers of RUBs/LHS have been constructed during the year 2011-12, 42 during the year 2012-13, 80 during the year 2013-14 & 51 during the year 2014-15.
- **Construction ROBs.** Total 6 numbers of ROBs have been constructed during the year 2012-13, 13 numbers during the year 2013-14 & 2 numbers during the year 2014-15.
- Double Speed Breakers have been provided on 25 numbers of busy level crossings having frequent boom damages cases.
- **Deployment of Gate Mitra on Unmanned LC on WCR:** On WCR Gate Mitra has been deployed at all unmanned LCs.
- **Master plan for elimination of UMLCs by 2015-16:**

SN	Elimination of UMLCs by	2014-15		Scope as on 01.04.15	Planned 2015-16
		Planned	Achieved		
1	Construction of LHS	33	38	38	38
2	Diversion Road	4	6	0	0
3	Closure of UMLC (Low TVU)	0	0	0	0
4	Manning of UMLC	5	36	0	0
<b>Total nos. of UMLCs to be eliminated by above</b>		<b>42</b>	<b>80</b>	<b>38</b>	<b>38</b>

- **Elimination of Manned LCs:**

SN	Elimination by	2013-14	2014-15	
		Achieved	Target	Achieved
1	ROB	7	5	2
2	RUB/LHS	23	38	51
3	Closure due to low TVU	10	0	2
4	Diversion	5	0	6
<b>Total</b>		<b>45</b>	<b>43</b>	<b>61</b>

### 3.5 Other Steps taken for improving safety on WCR:

#### 3.5.1: Bridges-

- All distressed bridges have been rebuilt in WCR. Now there is no distressed bridge on WCR.
- Rehabilitation of 50 nos. bridges completed in 2013-14 and 65 nos. in 2014-15.

#### 3.5.2: Other steps -

- Monitoring of safety related works on every Tuesday through Safety Meeting by GM, WCR with all PHODs and DRMs.
- Total **11** Safety Drives have been launched during the year 2014 covering various aspects of safety measures.
- 100% removal of infringing masts on main line.
- Relocating of 78 starter signals to the boundary of track circuit (station) against target of 45 signals in 2014-15.
- Weekly monitoring of D&AR cases even of yard/siding accidents at GM level.
- Providing barricade where road is parallel to track.

### 3.6 Other Safety activities like Safety Seminar, Safety Camp, Nukkad Natak and distribution of Posters/Hand Bills/Stickers:-

The details of safety camps/seminars, ambush checks, which were carried out and, TV shows, advertisement and stickers posters hand bills were distributed in last year and current year up to March -2015 are as under-

SN	Items	2012-13	2013-14	2014-15
1	Safety Seminar	124	137	227
2	Safety Camp	70	46	73
3	No. of Posters/Hand Bills/Stickers	27967	15301	33875
4	Nukkad Natak	31	38	33
5	No. of films/Slides shown in Cinema halls	59	3 (On TV)	20
6	No of ambush checks conducted at UMLC with the help of police & civil authorities.	74	215	250
7	Road user counselled	18825	11908	21158

### 3.7: Safety Meeting conducted by GM with all PHODs & DRMs (through video conferencing) On every Monday/Tuesday: Important issues pertaining to safety are discussed regularly which helps to improve safety on the railway. Some of the important items discussed are as under-

- Each & every accident happened on WCR and serious accidents happened on other railways.

- All unusual incidences like train parting cases, hot axle cases, damage of signals and other installations by open door wagons etc.
- Level crossing incidences i.e. boom breakages, LC phone failures, inattentiveness of gateman etc.
- Reversal of points immediate after arrival of trains through data loggers and daily testing of crossovers.
- Weekly analysis of 10 hours rule implementation.
- PME & Refresher courses overdue positions.
- Serious irregularities noticed during inspections of officers and inspectors during week.
- Periodical joint inspection of ARTs and ARMVs.

### Consequential Train Accidents on West Central Railway during 2014-15

(April-2014 to March -2015)

<b>Accident No.1</b>			
<b>SN</b>	<b>Particulars</b>		<b>Case details</b>
1	Date and Time	:	10.05.2014., 09:28 hrs. between Salamatpur-Sanchi stations of Bhopal-Bina section of Bhopal division.
2	Brief Particular	:	On 10.05.2014, at 09:28 hrs., while the train No.12433 (MAS-NZM Rajdhani Express) was on run between Salamatpur-Sanchi stations, of Bhopal division, its engine(30255/GZB) derailed by leading wheel at km 878/14 due to cattle run over (24-26 number of cattle came in front of train and two cattle rounded on leading wheel).
3	Casualties	:	Nil
4	Final Cause	:	CRO (24-26 number of cattle came in front of train and two cattle rounded on leading wheel).
5	Cost of Damage (in ₹)	:	₹ 300000/-
6	Level of enquiry	:	JAG
7	Responsibility	:	Incidental, CRO
8	D&AR Action	:	Not required.

<b>Accident No.2</b>			
<b>SN</b>	<b>Particulars</b>		<b>Case details</b>
1	Date and Time	:	23.07.2014, 22.38 hrs, between Gurla-Thaleda stations of Kota–Chittaurgarh section of Kota division.
2	Brief Particular	:	On 23.07.2014 at about 22.38 hrs, while passenger train no. 59833 Kota-Neemach Passenger train was on run between Gurla-Thaleda stations of Kota division, One Maruti Car (RJ-08, CA-3404) dashed with train engine no. 16835 at Unmanned LC No.2 at km 02/06-07.
3	Casualties	:	Killed -01, Grievous-02(road users).
4	Final Cause	:	Careless driving by Maruti car driver.
5	Cost of Damage (in ₹)	:	Total ₹ Nil
6	Level of enquiry	:	Senior Supervisors Level
7	Responsibility	:	<b>Primary:</b> FORS <b>Secondary:</b> FORS
8	D&AR Action	:	Not required.

Accident No.3			
SN	Particulars		Case details
1	Date and Time	:	16.01.2015, 10.20 hrs, between Katni- Bina (Bina Yard) of Bhopal division.
2	Brief Particular	:	On 16.01.2015 at about 10.20 hrs, while passenger train no. 11072 BSB-LTT(Kamayani Exp.) while receiving on platform no. 1 of Bina Yard, Trailing Trolley of Engine No. 20629/ET/WAM-4 derailed while entering on point No. 138 at km. 975.800 between MAKR-BINA station of SGO end movement blocked of up loop line and washing siding.
3	Casualties	:	Nil
4	Final Cause	:	---
5	Cost of Damage (in ₹)	:	Total ₹ Nil
6	Level of enquiry	:	JAG
7	Responsibility	:	<b>Primary:</b> Nil <b>Secondary:</b> SSE/P.Way/Bina <b>Blameworthy:</b> SSE/TRS Shed/ET
8	D&AR Action	:	Secondary-SF-11 issued. WIT for 02 years. Blameworthy-SF-11 issued. One set of PTO Withheld.



Zonal Disaster Management Book Published on 12.01.2015.



WCR proud winner of Railway Safety Shield for the 3rd consecutive year.



Breath Analyser test at Kota Lobby By LP.



## Level Crossing Awareness Week and International Level Crossing Awareness Day (Advertisement in Newspapers).

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### 13. सुरक्षा/ SECURITY

Railway Protection Force has successfully safeguarded Railway Property as well as property entrusted to the Railways over West Central Railway. Efforts of RPF have brought rich dividends and it has been able to put up a commendable performance by controlling thefts in various areas. During the year 2014-15 total number of 363 cases were detected under RP(UP) Act with recovery of Railway property valued ₹ 8,24,960/- and arrest of 628 criminals.

The object of extending facilitation to the traveling public remained top priority of RPF during the above period and to achieve this objective all possible measures were initiated. Regular drives and raids were conducted to keep the station premises and running trains free from unauthorized hawkers, touts and undesirable anti-social elements.

During the year 2014-15, a record number of 2,30,880 persons were prosecuted under the Railways Act and fine of ₹ 8,57,55,472/- were realized from them. The menace of toutting over W.C.Railway has been controlled by the RPF to a large extent. As many as 44 persons who were found indulging in toutting with in Railway premises were arrested and prosecuted by RPF. During the same period, 3292 persons were arrested and prosecuted during the year 2014-15 for Alarm Chain Pulling (ACP) cases and fine of ₹ 15,21,060/- was realized from them.

Drives along with Commercial branch were conducted to nab ticketless travelers in a big way and as many as 1,70,066 persons traveling without ticket were arrested and a fine of ₹ 7,50,71,615/- was realized from them during the year 2014-15.

#### SECURITY ORGANIZATION

The organization, function superintendence and command of Railway Protection Force is governed by RPF Act 1957 as modified by Act No. 60 of 1985 and 52 of 2003. The basic duties of RPF under the Act are to protect and safe guard Railway Property including security of passenger and passengers area, to remove any obstruction in the movement of Railway property and to execute all other orders issued lawfully by competent authorities. The RPF organizational set up in WCR consists of one IG-cum-CSC assisted by one DIG-cum-Addl.CSC, one Dy.CSC, three ASCs in Head Quarters, one DSC and one ASC in Jabalpur Division, one Sr.DSC and two ASCs in Bhopal Division and one Sr.DSC, one DSC and one ASC in Kota division.



After the creation of new zone and reorganization of W.C.Rly.from 01.04.2003 the sanction and present strength of Security branch as on 31.03.2014 is as under:-

**STRENGTH OF GOs OVER WCR**

Rank	IG	DIG	Dy. CSC	Sr. DSC	DSC	ASC	TOTAL
Sanctioned	01	01	01	01	02	07	13
Present	01	01	-	01	02	06	11
Vacancy	-	-	01	-	-	01	02

**STRENGTH OF NON-GOs OVER WCR- ( EXECUTIVE STAFF)**

Rank	IPF	SIPF	ASI	HC	CT	HC/Handler	CT/Handler	Driver	Ancillary	Total
Sanctioned	43	78	137	574	869	28	16	11	16	1772
Present	37	73	108	483	524	11	16	6	14	1272
Vacancy	6	5	29	91	345	17	-	5	2	500

**Note:** W.C.Rly has 42 lady Officers and Staff (07-SIPF and 35-Constables) on its Roll.

**Co-ordination Meetings**

An important duty of the RPF is to co-ordinate with State Police and Civil authorities as well as assists the GRP and police in maintenance of law and order and control of crime in Railway premises. Officers the level of DSC and above held 94 co-ordination meeting with GRP/Police and Civil authorities during the year 2014-15.

**A. CRIME STATISTICS AND SECURITY ARRANGEMENTS**

Statement indicating the property stolen and property recovered under Booked Consignments as well as Railway Material, cases detected under Railway Property (Unlawful Possession) Act, 1966 is as under:-

➤ **THEFT OF BOOKED CONSIGNMENT**

Year	No. of cases			Value of Property			Persons arrested
	Regd.	Detd.	% Det.	Stolen (in ₹)	Recovered (in ₹)	% Rec.	
2012-13	27	25	92.59	399233	391873	98.15	75
2013-14	21	20	95.24	477240	445540	93.36	99
2014-15	16	10	62.5	297870	227170	76.26	49

➤ **THEFT OF RAILWAY MATERIAL**

Year	No. of cases			Value of Property			Persons arrested
	Regd.	Detd.	% Dec.	Stolen (in ₹)	Recovered (in ₹)	% Rec.	
2012-13	334	301	90.11	7,59,761	6,20,072	81.61	525
2013-14	342	339	99.12	8,06,621	6,88,496	85.36	526
2014-15	354	355	101.0	6,48,794	6,38,890	98.47	579

➤ **THE RAILWAY PROPERTY (UNLAWFUL POSSESTION) ACT, 1966 :-**

Year	No. of cases Detd.	Value of Property Recovered (in ₹)	Persons arrested
2012-13	304	11,58,759	600
2013-14	361	11,05,716	625
2014-15	363	8,24,960	628

➤ **THE RAILWAYS ACT, 1989 :-**

The statement indicates the number of offenders prosecuted by RPF over W.C.Rly. during the last three financial years are as under :-

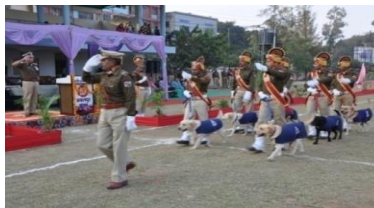
U/S	2012-13		2013-14		2014-15	
	P/A	Fine ₹	P/A	Fine ₹	P/A	Fine ₹
137	3443	1313868	25780	12767616	32581	16456844
138	85259	33969769	106281	47646271	137485	58614771
141	3520	2086740	3213	1884301	3292	1521060
142	02	1564	0	0	0	0






U/S	2012-13		2013-14		2014-15	
	P/A	Fine ₹	P/A	Fine ₹	P/A	Fine ₹
143	91	6000	70	0	44	0
144	10223	5031734	13056	4435417	15093	4793701
145	3310	404356	7369	950261	8502	750955
146	195	63185	118	43030	92	52920
147	12378	1973410	10257	1672650	4884	789435
153	22	0	18	0	12	5700
154	204	658180	166	582850	160	726665
155	5243	496328	9303	843340	9953	522025
156	2851	232641	3231	284875	2578	180435
157	0	0	0	0	1	22700
159	3916	415500	7074	706632	6180	581120
160	144	62700	103	48900	105	73966
161	05	4000	5	13000	2	48000
162	6572	549927	8994	477670	9250	398855
163	01	0	0	0	0	0
164	21	3000	11	0	4	2000
165	9	4900	1	0	0	0
166	01	0	3	1500	1	500
167	517	35150	772	40500	517	30750
172	05	250	8	700	6	0
173	0	0	0	0	0	0
174	144	236450	146	322550	138	183070
175	0	0	0	0	0	0
180(g)	01	0	0	0	0	0
<b>Total</b>	<b>1,38,077</b>	<b>4,75,49,652</b>	<b>1,95,979</b>	<b>7,27,22,063</b>	<b>2,30,880</b>	<b>8,57,55,472</b>

#### PERFORMANCE OF DOG SQUAD:-

The Dog Squad over WCR has a sanctioned strength of 26 dogs, out of which 23 dogs (22-Sniffer and 01-Tracker) are present. The dogs are utilized at important railway stations for anti-sabotage checks in trains, reservation office and platforms. RPF Dogs are also rendering assistance to GRP for anti sabotage checking and other crime related investigation when ever required.



#### Awareness Campaign to check Inflammable Articles

	<ul style="list-style-type: none"> <li>• During year-2014-15, 15306 checks at Stations/in Trains and 80 awareness campaigns conducted.</li> <li>• 04 persons arrested u/s 164 of the Railways Act.</li> <li>• Dedicated mobile no. 97524-15555 has been provided for the purpose and given wide publicity.</li> </ul>
<b>Awareness campaign against Drugging Over W.C.Railway</b>	
	

### Yoga camp

On 13.03.2015 a yoga camp was organised under the supervision of Bramhakumari Ishwariya Vishvavidyalaya Jabalpur to reduced the stress etc. during the course of duties for RPF personnel of W.C.Railway.



<b>Awareness campaign for crime against women passengers</b>	
<p>Four RPF lady squads (Mahila Vahini) namely :</p> <ol style="list-style-type: none"> <li>1) Avanti Bai at Bhopal,</li> <li>2) Durgavati at Jabalpur,</li> <li>3) Padmini at Kota and</li> <li>4) Panna at Sawaimadhopur have been formed on W.C. Railway for prevention and detection of crime against women passengers.</li> </ol> <ul style="list-style-type: none"> <li>• During year-2014-15, 1641 ladies coaches have been checked by the lady squads (Mahila Vahini).</li> <li>• 892 persons have been arrested by the lady squads under section 162 of the Railways Act.</li> <li>• Dedicated mobile no. 1800-233-0044 has been provided for the purpose and given wide publicity.</li> </ul>	 

## B. REWARD & COMMENDATION-

The details of rewards and commendations sanctioned to RPF staff of WCR for their excellent performance during the period of 2014-15 under review is mentioned below:-

PPM	IPM	DG/RPF Insignia	MR (Railway Week) Award by Railway Board	Railway Week Award by GM/WCR	Officers /Staff awarded by GM/WCR	Officers /Staff awarded by CSC/WCR
-	01	05	-	14	630	440

### MODERNIZATION OF SECURITY BRANCH –

Bhopal, Itarsi, Kota, Bina and Jabalpur have been identified for installation of Integrated Security System (ISS) on this Railway. Out of these stations, the Integrated Security System has been sanctioned for Bhopal and Itarsi stations at total cost of ₹ 5.62 crore and the process of installation of gadgets is in progress at Bhopal and Itarsi stations.

80 Cameras, at Bhopal and 72 Cameras at Itarsi station have been installed. 01 No. of X-ray Baggage Scanner installed each at Bhopal and Itarsi. 05 dogs (Sniffer) deployed each at Itarsi and Bhopal. 04 nos. Door Frame Metal Detector at Bhopal station and 03 nos. at Itarsi is yet to be installed, 02 nos. Real Time Viewing System, 02 nos. Blasting Machine, 02 nos. Bomb Basket, 02 nos. Car remote opening tool kit, 02 nos. Drilling Machine, 02 nos. Disrupter and 02 nos. Gas Cutter is yet to supplied. Completion of Work 9<sup>th</sup> DOC extension granted upto 31.07.15.

Efforts have been made to equip the force with the latest weaponry, vehicles, means of communication, security and Modernisation equipment during the year 2014-15, 25 nos. Polyester tent, 03 nos. Multi gym, 08 nos. of Computers, 11 nos. Laser Printers, 08 nos. UPS, 01 multifunctional printer, 168 toner cartridge, 10 pen drive, Furniture, 01 external hard disc, 01 HP Scanner, 01 multimedia projector make sony, 01 projector stand and screen and 03 nos motor cycle were purchased at an approximate cost Rs. 20.14 lakhs. Besides this the furniture for Jabalpur, Bhopal division and conference room at Head Quarter total cost Rs. 11.02 lakhs also sanctioned.

**RSMS:-** RPF Security Management System (RSMS) is functioning at Zonal Security Control, all three Divisional Security Control Room and SIB unit of HQ/Division of W.C.Railway. Daily Report/correspondences are being send/received through RSMS to Railway Board, other Zonal Railways/Divisions.

### STAFF WELFARE:-

**Modified Assured Career Progression Scheme (MACPS):-** During the year 2014-15, 113 numbers of officers/staff of RPF were granted benefit under Modified Assured Career Progression Scheme.

**Railway Surksha Kalyan Nidhi (RSKN) :-** During the year 2014-15, 52 staff were paid ₹ 7,91,280/- from RSKN under Vipatti Sahayta, Lump-sum, Ex-gratia, Merit Scholarship, Funeral Expenses, bank charges and 10% subscription.

### OTHER GOOD WORK DONE BY RPF DURING THE YEAR 2014-15:-

- 49 missing children rescued.
- 30 cases of theft of passenger belongings/luggage lifting/other IPC cases detected by RPF with arrest of 43 persons.
- 01 case of illegal carrying of arms detected by RPF with arrest of 03 persons.
- In 01 cases, contraband goods recovered by RPF with arrest of 02 persons.
- 05persons arrested by RPF involved in 05 cases of crime against women passengers.
- 3,292unauthorized Alarm Chain Puller arrested.
- 15, 093 unauthorized hawkers/vendors arrested.
- 44 touts arrested.
- 4,133 persons fined under the Tobbaco Act.

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## 14. संकेत एवं दूरसंचार/SIGNAL& TELECOM


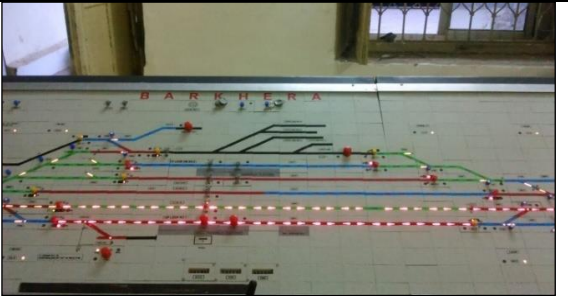
The salient achievements and highlights of performance for the year 2014-15 are as follows:

### 1. Achievements/Highlights

#### Pink Book/Joint Works

#### 1.1 Panel Interlocking works:

Total PI Stations commissioned during the year – 07+06\* Nos

	
GM/ WCR inaugurating the Jabalpur RRI remodeling Phase-I work in connection with commissioning of Platform Nos. 5 & 6 on 22/12/2014.	Barkhera station newly commissioned central panel

#### 1.2 Electronic Interlocking works:-

Total EI Stations commissioned during the year – 05 Nos

#### Sukhi Sewaniya station's VDU & Panel Processor of Electronic Interlocking



#### Dewanganj station's Panel & VDU of Electronic Interlocking



**1.3 Track circuiting:-**

Total Track circuit commissioned during the year - 23+10\* Station phases.

**1.4 Shifting of starter signals to the boundary of track circuits:-**

Total starters shifted - 78 Nos. at 15 stations.

**1.5 LED signals:-**

Total No. of LED aspects provided during the year – 964 Nos.

**1.6 Block Proving by Axle Counter:**

Total BPACs commissioned during the year – 10+18\* Nos

**1.7 Dual BPACs:**

Total dual BPACs commissioned – 10 Nos

**1.8 Interlocking of L.C. gates:-**

Total No of L.C. gates interlocked during the year – 07 Nos.

**1.9 Conversion of L.C. gates from mechanical to electrical -**

Total No. of L.C. gates where the mode of operation has been converted from mechanical to electrical during the year – 15.

**1.10 IBHs :**

Total IBHs commissioned – 01 No.

(\*Replacement work.)

**2.0 Summarized position of commissioning of works vis a vis targets is as below:**

Works	Target for Railway 2014-15		Cumulative progress till the end of the year	
	SRSF	Others/Pink Book	SRSF	Others/Pink Book
RRI	NIL	13	NA	NIL
PI/EI			NA	08+08*
New crossing / precedence stations	NIL	--	NA	02
Track Circuit Locations	NIL	28	NA	23+10*
BPAC	NIL	10	NA	10+18*
L.C. Interlocking	NIL	06	NA	07
IBS	NIL	02	NA	01
L.C. Telephone	NIL	All Manned	NA	25

(\*Replacement work.)

**3.0 New Technologies****3.1 Systems of Single Section Digital Axle Counters:**

Systems of Single Section Digital Axle Counters for BPAC applications commissioned during the year – 39 Nos.

**3.2 Systems of Multi Section Digital Axle Counters:**

Systems of Multi Section Digital Axle Counters for Track circuit application commissioned during the year – 04 Nos.

**3.3 Integrated Power Supply system.**

IPS Systems provided during the year – 35+08\*(43) Nos.

**4.0 System Improvements (Signal)****4.1 Data Loggers provided during the year – 16+08\* (24) Nos.****4.2 LED aspects provided on colour light signals, during the year –964 Nos.****4.3 Token less Block instruments provided during the year- 13 Block sections.****4.4 IRS type point machines provided during the year - 186+53\* (239) Nos.**

- 4.5 Earth Leakage Detector provided during the year- 63+9\* (72) Nos.  
 4.6 Glued joints provided during the year.- 862+749\* (1611) Nos.  
 4.7 Gates provided with sliding booms during the year - 39 Nos.  
 4.8 Solar panels provided for standby power supply in signaling system– 765 Nos  
 (\*Replacement work.)

**5.0 Maintenance Efforts to Reduce Failures/Improve Reliability**

- (i) Batteries replaced during the year- 2806 Nos.  
 (ii) Incandescent lamps replaced with LED Signal lamps during the year- 964 aspects including at new stations.  
 (iii) IPS Systems provided during the year– 35+08\* (43) Nos.

**6.0 Efforts to improve Safety:**

- 6.1 Sections Provided with BPAC during the year – 10+18\*(28) Nos.

**7.0 Asset Management:**

Item	Cumulative till current month of the current year (2014-15)	Cumulative till the same period of the last year(2013-14)	% increase/decrease over same period of the last year
Total Signal Incidences	6399	7067	9.45% reduction

**8.0 OVERHAULING : THE DETAILS ARE AS UNDER:**

Equipment	Total to be over-hauled during the year (including over due as on 1 <sup>st</sup> April 2014)	Cumulative progress till 31 <sup>st</sup> March'15
Lever Frames	11	11
Block Instruments	58	58
Track Relays- Shelf type	0	-
Line Relays–Shelf type	0	10
Point Machine	10	57

**B) TELECOM**

**1.0 Passenger Amenities -**

- 1.1 JTBSs, : Total locations provided – 03 locations.  
 1.2 (a) Train Information Display Board (LCD type) : Total locations provided – 02 locations.  
 (b) Train Information Display Board (5 –Line, single colour) : Total locations provided – 02 locations.  
 1.3 Clocks : Total No. of clocks provided –Quartz type – 10 Nos. and GPS based – 06 Nos.  
 1.4 UTSS : Total stations provided – 05 stations.  
 1.5 PRSS : Total locations provided – 06 locations.  
 1.6 NTES: Total locations provided – 01 Station.  
 1.7 Electronic display system for paperless reservation charts: Total provided – 01 station.  
 1.8 PA systems: Total stations provided – 02 new stations.  
 1.9 On line booking of retiring rooms: Total stations provided – 06 stations.  
 1.10 Comprehensive Train Information Display System– Total provided – 04 stations.  
 1.11 At a glance boards: 01 Nos.  
 1.12 Coach guidance boards: Total boards provided: 125 Nos. at 05 PFs at 02 stations.  
 1.13. Integrated Passenger Information System: Total provided – 02 stations.  
 1.14 Auto Announcement System: Total provided – 01 station.



**5.0. Progress of OFC and Quad cable Works: Summary-**

S. No	Type of cable	Target 2014-15	Section	Achieved till the end of the month 2014-15 cable RKM
1	OFC	NIL	Guna - Gwalior	56.4
2	Quad cable	230 Kms	Guna – Gwalior	15
3			Sawaimadhopur – Kota	0
4			Sawaimadhopur – Mathura	106.35
5			Itarsi - Manikpur	60
6			Lalitpur – Singrauli	16.343
7			Bir –Talwadia	20
8			Kota – Shamgarh	0
9			Shamgarh - Nagda	0
			<b>TOTAL</b>	<b>231.693</b>
<b>GRAND TOTAL for OFC &amp; quad cable commissioned</b>				<b>288.093</b>

**C) INNOVATIONS: -****Data Logger Based MIS (Management Information System)**

The existing system of data logger entails preparation of various reports, like daily / weekly / monthly etc. exceptional reports, with manual intervention only. This is a time consuming exercise and also may cause some errors. To overcome this problem and also to generate large number of other user friendly reports, an MIS has been developed by WCR. This MIS is able to create automatic summary reports of various types which can be used by the management at divisional and zonal levels very effectively and gainfully. New MIS generates a total of 34 main reports, each of which includes nearly 5-6 sub reports. This MIS is also available on Rail Net platform for universal access at divisional/Zonal level.

This innovative work is likely to prove an important milestone in the evaluation of data loggers.

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## 15. भंडार/ STORES

### 1.0 STORES TRANSACTION

1.1 Details of Stores balance for Normal Maintenance and Operation with fuel as well as works.  
(₹ in Crores)

Description	Normal Maintenance & Operation		Works		Total	
	13-14	14-15	13-14	14-15	13-14	14-15
1. Opening Balance at the beginning of Year:-						
a) Physical Balance without adjustment	201.19	158.12	-	-	201.19	158.12
b) Adjustment	--90.83	-21.39	-	-	--90.83	-21.39
c) Total Balance as per appropriation account under 7160	110.35	136.73	-	-	110.35	136.73
d) Book keeping adj relating to 7171-7190	-28.64	9.78	-	-	-28.64	9.78
e) Total Balance under capital 7100	81.71	146.51	-	-	81.71	146.51
2. Receipts during the year	1461.33	1177.27	-	-	1461.33	1177.27
3. Issue during the year	1396.54	1205.21	-	-	1396.54	1205.21
4. Closing Balance at the end of the year 31.03.2014						
a) Physical Balance without adjustment	158.12	149.61	-	-	158.12	149.61
b) Adjustment	-21.39	-37.43	-	-	-21.39	-37.43
c) Total balance appropriation A/c 7160	136.73	112.18	-	-	136.73	112.18
d) Book keeping adj capital 7171-7190	9.78	6.39	-	-	9.78	6.39
Total Balance under (7100)	146.51	118.57	-	-	146.51	118.57

### 2.0 COMPUTERISATION (E-PROCUREMENT)

All MMIS related work has been completely switched over w. e. f. 01.04.2005. Whole system is working satisfactorily. Current status of MMIS implementation is as under:

- i) Purchase module. - Implemented
- ii) Finance module. - Implemented
- iii) Depot module. - Implemented
- iv) Sale module. - Implemented
- v) Uniform module. - Not applicable

2.1 E-Procurement: - The E-Procurement system has been fully implemented on COS/WCR/JBP. The following works are being done by the EPS successfully.

- a) NIT creation through MMIS interface and uploading tender from file and publishing of tender.
- b) All type of tender opening.
- c) Direct NIT creation and publishing of tender.
- d) Uploading the IREPS's registered firms by MMIS registration code.
- e) Uploading trade group from file.
- f) Downloading the Bid data from IREPS and updating the database of MMIS.
- g) Reverse auction has been successfully implemented.

2.2 In addition to HQ E-procurement fully implemented at all stocking depot level and all three divisional units.

2.3 E-Auction: - E-Auction for scrap sale has been successfully implemented at CRWS/BPL, WRS/Kota and at Sr.DMM's of all three Division JBP, BPL & KOTA.

**2.4** DGS&D working:- All DGS&D RC purchase orders are being placed on DGS&D website successfully.

### **3.0 PURCHASE MANAGEMENT**

**3.1** Value of Railway Equipment and Stores Ordered for the year 2014-15(01.04.2014 to 31.03.2015) (₹ in Crores)

Year	Total value of equipment & stores ordered (Col 3+4)	Value of equipment and stores ordered through Deptt. Of supply	Value of equipment and stores ordered through other agencies	Value of equipment	
				Imported stores purchased in India	Indigenous, manufactured
1	2	3	4	5	6
2014-15	1154.62	79.30	1075.32	0	1154.62

**3.2** Purchase made for the year 2014-15.

Year	Material imported directly	Material imported through Agents in India	Total of Col.2 & 3	Indigenous Purchase	Total indigenous and imported	Purchase indigenous(%)
1	2	3	4	5	6	7
2014-15	0	0	0	1154.62	1154.62	100%

**3.3** No. of orders placed during the year 2014-15

Year	Requisition on Railways	Covered through P.O	No. of purchase orders issued		No. of cases where cash purchase made		Total no. of indents on DGS&D & Central Purchase Agencies.	
	No.	Item	No.	Item	No.	Item	No.	Item
2014-15	8872	3295	3423	3295	-	-	1160	160

**3.4** Value of Purchase made from Cottage & Small Scale Industries in 2014-15: ₹ 63.36 Crores

**3.5** Purchase of Khadi items during 2014-15:- ₹ 0.00 Crores

**3.6** Statement of foreign Exchange released and utilized: -

i) The total amount of Foreign Exchange released by Rly Board and FA & CAO/GM/WCRly. during the year 2014-15.

Year	Foreign Exchange released by Railway Board				Foreign Exchange released by FA & CAO/GM/WCR			
	For DSL Spares	For Elect. Spares	For other items	Total	For DSL Spares	For Elect. Spares	For other items	Grand Total
2014-15	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

**ii) Foreign Exchange released by Rly Bd against different fund during 2014-15.**

Out of India Loan Fund	Out of US Project Loan Fund	Out of free resources	Out of CM-1022 commodity Credit	Out of Vikkyan Plan agreement	Out of Ind. Polish agreement	Out of E/Ex. Allocation made to DTC Ltd.	Total Calls
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

**4.0 SUPPLY OF UNIFORMS DURING 2014-15.**

Summer		Winter	
No. of Garments	2014-15	No. of Garments	2014-15
Demanded	266629	Demanded	51546
Supplied	266629	Supplied	51546
Compliance	100%	Compliance	100%

**5.0 INVENTORY MANAGEMENT**

**5.1 Stores Depot Receipt and Transaction Statistics for year 2014-15.**

Depot	Expenditure of officers and staff engaged in receipt and inspection work (₹ in lakhs)	No. of staff for clerical and supervision work	Approximate net value of stores handled (₹ in lakhs)	Cost of receipt, inspection for every ₹ 100/- worth of Stores	Receipt notes granted per clerk per month
WRS/KOTA	22	05	77	0.29	154
CRWS/BPL	6397	10	15647.57	0.25	220
Box-N/NKJ	18.73	01	2484	0.75	27
Diesel/NKJ	28.20	09	2232	1.26	68
Diesel/ET	24.48	04	72.87	0.02	95
ELS/NKJ	0.07	02	9.93	0.70	150
ELS/ET	22.83	04	17.08	1.33	65
ELS/TKD	30.67	05	22.15	1.38	21.17
GSD/BPL	45.98	07	4964	2.04	-

**5.2 Details of deficiencies revealed by Accounts & Departmental Stock Verification Percentage of item verified with discrepancies for 2014-15.**

Depot	Percentage of item Verified with No Discrepancies	Upto limit of ₹50/-	Upto limit of ₹1000/-	Above the limit of ₹1000/-
WRS/KOTA	100%	Nil	Nil	Nil
CRWS/BPL	100%	Nil	Nil	Nil
Box-N/NKJ	100%	Nil	Nil	Nil
Diesel/NKJ	100%	Nil	Nil	Nil
Diesel/ET	100%	Nil	Nil	Nil
ELS/NKJ	100%	Nil	Nil	Nil
ELS/ET	99.57%	Nil	Nil	Nil
ELS/TKD	100%	Nil	Nil	Nil
GSD/BPL	100%	Nil	Nil	Nil

**5.3 Loss and Gain brought in light as a result of Departmental & Accounts verification for 2014-15.**

Depot	Loss ₹	Gain ₹	Net Gain ₹	Net Loss ₹
WRS/KOTA	Nil	Nil	Nil	Nil
CRWS/BPL	Nil	Nil	Nil	Nil
Box-N/NKJ	Nil	Nil	Nil	Nil
Diesel/ET/NKJ	Nil	Nil	Nil	Nil
ELS/NKJ	Nil	Nil	Nil	Nil

Depot	Loss ₹	Gain ₹	Net Gain ₹	Net Loss ₹
ELS/ET/TKD	Nil	Nil	Nil	Nil
GSD/BPL	Nil	Nil	Nil	Nil

#### 5.4 Unit cost of issues

(Fig. In Crores of ₹)

Depot	Value of Stores issued during the year	Pay & Allowances of Depot Staff	Cost in Rs. For making issues worth ₹100/-
WRS/KOTA	114.80	4.82	4.20
CRWS/BPL	160.32	224	0.72
Box-N/NKJ	24.84	0.74	2.98
Diesel/NKJ	19.50	1.38	70.7
Diesel/ET	3.30	1.32	4.35
ELS/NKJ	11.15	0.32	2.87
ELS/ET	16.74	0.14	0.87
ELS/TKD	24.79	0.33	1.31
GSD/BPL	27.09	0.28	1.03

#### 5.5 Transactions

Depot	Total Transactions i.e. No. of posting during the year 2014-15 Receipt & Issue		No. of average transaction per month Receipt & issues		No. of Class III Staff involved	Average No. of transactions per month/person
	Receipts	Issues	Receipts	Issues		
WRS/KOTA	4220	13866	352	1155	12	124
CRWS/BPL	5425	16806	452	1400	18	80
Box-N/NKJ	323	2384	27	199	02	113
Diesel/NKJ	1631	7194	136	600	10	73.6
Diesel/ET	2530	9013	211	751	05	2308
ELS/NKJ	5031	7142	419	595	10	101
ELS/ET	3869	7999	322	583	05	181
ELS/TKD	1303	7320	108.58	610	14	51.35
GSD/BPL	1030	5766	85.83	480.50	07	81

#### 5.6 Availability of items as on 31.03.2015.

Depot	Purchase Items			Shop Manufactured items		
	Total No. of items stocked	No. of items in stock	%	Total No. of items stocked	No. of items in stock	%
WRS/KOTA	799	790	98.87%	-	-	-
CRWS/BPL	753	19	97.47%	78	78	100%
Box-N/NKJ	350	328	94%	Nil	Nil	Nil
Diesel/NKJ	1234	1188	96.27%	Nil	Nil	Nil
Diesel/ET	1422	1369	96.27%	58	45	77.58%
ELS/NKJ	792	781	99%	-	-	-
ELS/ET	936	890	95%	Nil	Nil	Nil
ELS/TKD	1086	1049	96.59%	Nil	Nil	Nil
GSD/BPL	610	521	85.40%	Nil	Nil	Nil

#### 5.7 Overstock and Surplus Stores

The position in respect of Overstock and surplus Stores during 2014-15 as under

As on	Overstock		Surplus	
	Item	Value (Cr.₹)	Item	Value (Cr.₹)
31.03.2014	1402	448.24	427	09.951
31.06.2014	1455	217.46	372	24.098

30.09.2014	1484	186.20	457	24.934
31.12.2014	1421	159.83	512	24.878
31.03.2015	1156	112.69	485	25.718

#### 5.8 Losses due to theft, misappropriation and fire etc.

Year	Loss due to theft and Misappropriate etc.		Loss due to fire		Remarks
	No. of cases	Value (in ₹)	No. of cases	Value involved	
2014-15	Nil	Nil	Nil	Nil	Nil

### 6.0 SCRAP DISPOSAL

#### 6.1 Overall Performance of Scrap disposal

(Value in crores of ₹)

Category	Balance as on 01.04.2014		Receipt during the year 2014-15		Disposal for Railway use		Disposal sold to others		Closing balance 31.03.2015	
	Qty. (MT)	Value	Qty. (MT)	Value	Qty. (MT)	Value	Qty. (MT)	Value	Qty. (MT)	Value
Rail	1858	5.01	35534	95.64	-	-	37336	100.76	56	0.15
P. Way	243	0.44	14760	26.59	-	-	14390	25.93	612	1.10
Ferrous Scrap	955	2.39	26610	67.40	-	-	26994	68.25	571	1.45
Other than P. Way										
Non-ferrous	62	0.98	551	8.69	-	-	583	9.18	30	0.47
Misc & Scrap	39	0.06	3379	4.64	-	-	3217	4.42	201	0.28

#### 6.2 Disposal of Rolling Stock

Category	Opening balance as on 01.04.2013	Receipt during 2014-15	Disposal during 2014-15	Value in crore	Closing as on 31.03.2014
Coach	1	51	52	1.72	0
Wagon	34	71	80	2.71	25
Locos	1	9	10	0.88	0
Boilers Under frame etc.	-	-	-	-	-

#### 7.0 Stores Performance indices:

Sr. No.	Items	Target 2014-15	Achievements
1	Scrap Disposal	₹ 263 Crores	₹ 213.85 Crores
2	Purchase items out of stock	95% (5%)	96.95(3.05%)
3	Workshop manufactured items out of stock	95% (5%)	90.44% (9.56%)
4	Turnover ratio	9%	15.09%
5	Safety items out of stock	0%	0.60%
6	Tender cases decided within the original validity	100%	100%

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## 16. सतर्कता/VIGILANCE

### 1. GENERAL

The activities of Vigilance Organization cover a wide range in various fields. The organization investigates complaints, pertaining to offences of corruption and other kind of malpractices, also carries out preventive checks at sensitive points, locations and areas in order to ascertain if procedures are being adhered to. Decoy checks are also conducted in order to reinforce the systems.

The main Areas of activities of Vigilance can broadly be categorized as under:-

- (i) Preventive checks.
- (ii) Investigation into genuine and verified complaints.
- (iii) Punitive recommendations consequent to investigations.
- (iv) Integrity building.
- (v) Vigilance clearance.
- (vi) Education and awareness.

The activities of Vigilance carried out in various areas have the following objectives:

- (i) Ensure observance of rules and procedures.
- (ii) To prevent against leakage of Railway revenue.
- (iii) Procedural and structural reforms to restrict and limit opportunities for corrupt practices.
- (iv) To improve all users perception.

The three-pronged strategy of Vigilance to boost Railway revenue has been undertaken in:-

- (i) Mass contact areas.
- (ii) Fraudulent payment to staff.
- (iii) Disposal of scrap.

### 2. ORGANIZATION

Vigilance organization on the West Central Railway started functioning during 2003-04 under administrative control of Chief Vigilance Officer, who is also the SDGM of the Railway. During the year the strength of Vigilance organization is as follows:

#### Gazetted:

Sr. No.	Designation	No. of posts
1	Chief Vigilance Officer	01
2	Dy. Chief Vigilance Officer	03
3	Sr. Vigilance Officer	02
4	Asstt. Vigilance Officer	02
5	PS to SDGM	01
TOTAL		09

#### Non-Gazetted staff:

Sr. No.	Designation	No. of posts
1	Vigilance Inspectors	20
3	Ministerial staff including Stenos	12
4	Group 'D' staff	05
TOTAL		37

Apart from the above, a separate Enquiry Cell is also functioning under the direct control and supervision of SDGM.

Sr. No.	Designation	No. of posts
1	Sr. Enquiry Officer	01
2	Enquiry Officer	01
3	Chief Enquiry Inspectors	03
TOTAL		05

### 3. INVESTIGATIONS INTO COMPLAINTS

Total number of complaints received and investigated by the vigilance branch during the year i.e. 2014 and the result arising there from in the form of Major penalty / minor penalty proceedings are as under:-

Sr. No.	Description		Nos.
1	Complaints received	NG	467
		Gaz.	90
2	Complaints investigated	NG	121
		Gaz.	15
3	Major penalty proceedings	NG	03
		Gaz.	01
4	Minor penalty proceedings	NG	21
		Gaz.	03

### 4. PREVENTIVE CHECKS

Sr. No.	Description	Nos.
1	Number of preventive check conducted (in Nos.)	1221
2	Amount raised/realized towards railway dues i.e. mass contact area, parcel and establishment matters (in ₹)	₹ 63,63,958/-
3	Number of Major penalty proceedings arising there from (number of staff)	35
4	Number of Minor penalty proceedings arising there from (number of staff)	165

### 5. STATISTICAL INFORMATION

Sr. No.	Description	Non-Gaz.		Gaz.	
		Major	Minor	Major	Minor
1	No. of DAR cases brought forward from previous year	73	53	19	3
2	No. of fresh cases arose during the year	54	208	1	5
3	No. of cases finalized during the year	53	227	3	2
4	No. of cases outstanding at the end of the year	74	34	17	6

### 6. PUNISHMENTS

Sr. No.	Description	Non-Gaz.		Gaz.	
		Major	Minor	Major	Minor
1	Dismissal	-	-	-	-
2	Removals	03	-	-	-
3	Compulsory retirements	04	-	-	-
4	Reduction in rank/pay	44	10	01	-
5	Cut in pension	01	-	01	-
6	Recovery from pay	-	-	-	-
7	Withholding of increments	-	84	-	02
8	Withholding of promotions	-	-	-	-
9	Censure/Warning	-	38	01	01
10	Others (Stoppage of Pass/PTO etc.)	-	94	-	-
11	No action	01	01	-	-
	<b>Total</b>	<b>53</b>	<b>227</b>	<b>03</b>	<b>03</b>

**7. TRAFFIC UNDER CHARGES RAISED IN GOODS**

By continuous efforts for blocking the leakage of Railway revenue, an amount of **₹37,48,594/-** (Rupees Thirty seven lakhs forty eight thousand five hundred and ninety four only) has also been realized by checking of over loading in **26 SLRs and 23 AGCs** at **various Railway station over the Railway** for the period from April, 2014 to March, 2015.

**8. IRREGULARITIES DETECTED IN PAYMENT OF STAFF**

Amount detected during Vigilance checks in irregular payment in re-imbursement of tuition fee, transportation allowance, over payment etc.- during the period from January, 2014 to December, 2014 is **₹4,73,000/-** (Rupees four lakhs seventy three thousand only).

**9. BRIEF OF SOME IMPORTANT CHECKS CONDUCTED BY VIGILANCE DEPTT.**

**April 2014**

1. On the basis of a source information, a preventive check was conducted on 21.03.2014, on the aspect of quality and quantity of track ballast supplied in Chhanera (CAER) ballast depot of Bhopal division against a CA. After the laboratory test it has been found that the water absorption in the ballast is more than permissible limit of 1%. Accordingly, **₹4,04,748/-** (10% value of 7158 cum.) has been recovered from the bill of supplier.
2. On the basis of a source information, a preventive check was conducted on 06.02.2014 on the aspect of quality of repair to courtyard walls and doors in staff quarters at Itarsi railway station of BPL division. Now, as per the laboratory test, it has been found that bricks used in this work are of substandard quality in respect of compressive strength. Accordingly, **₹1,47,654/-** (corresponding to quantity of 47.031 cum.) has been recovered from the contractor's bill.

**May 2014**

1. On the basis of a source information, a preventive check was conducted in Train No. 12322 in Jabalpur-Katni section of Jabalpur division on 15.05.2014 during which 17 unauthorised vendors working in pantry car were found without Identity cards, medical cards and reportedly they were over charging for food items. Accordingly, a penalty of **₹88,560/-** has been raised against the licence holder for W.T. travel by these vendors.
2. Based on a source information, a preventive check was conducted at **Unhel Nagheshwar near Vikramgarh Alot** station of Kota division on 21.05.2014 during which **huge Babool timber belonging to Railway was recovered from the private carpenter shop** with the help of RPF which was given to this shop by JE/PWAY/VMA for making furniture. Major penalty charge sheet issued to the CO on 11.08.2014.

**June 2014**

1. On the basis of a source information, a preventive check was conducted in Train No. 12295 between Katni-Satna section of Jabalpur division on 02.06.2014 during which 02 unauthorised vendors working in pantry car were found having no Identity card & medical card and were also found over charging for food items. Accordingly, a penalty of **₹8,320/-** has been realised from the Manager of Pantry Car.
2. On the basis of a source information, a preventive check was conducted in Train No. 16359 in Jabalpur-Katni section of Jabalpur division on 02.06.2014 during which 03 unauthorised vendors working in pantry car were found having no Identity card & medical card. Accordingly, a penalty of **₹10,520/-** has been realised from the Manager of Pantry Car.
3. On the basis of a source information, a preventive check was conducted in Train No. 10803 in Manikpur-Satna section of Jabalpur division on 21.06.2014 during which 04 unauthorised vendors working in pantry car were found having no Identity card & medical card. Accordingly, a penalty of **₹15,080/-** has been realised from the Manager of Pantry Car.
4. On the basis of a source information, a preventive check was conducted in Train No. 12361 in JBP-ET section of Jabalpur division and Itarsi Railway station of Bhopal division on 24.06.2014 during which 60 unauthorised vendors were nabbed having no Identity card & medical card and 99 irregular passengers were also found travelling in the train. Accordingly, a penalty of **₹1,13,940/-** has been realised from the Manager of Pantry Car and irregular passengers.
5. On the basis of a source information, a preventive check was conducted at Itarsi railway station of Bhopal Division on 29.05.2014, during which it was detected that Catering licence Balan Natural Food Stall have occupied an area of 29.86 sq meter instead of allotted area of 2.78 sq



meter and 03 unauthorised vendors were also found working in the stall. Accordingly a penalty of **₹2,28,764/-** has been recovered from the stall owner.

6. On the basis of a source information, a preventive check was conducted in DRM Office/Kota on 29.05.2014 during which a tender file of contract No. EL/C/KTT/2013/Tender/63 valuing **₹8.89 crores** for the work of Design Supply, Erection, Testing & Commissioning of 25 kv, 50 hz AC single phase Over Head Equipment and modification of existing OHE between Ramganjmandi - Jhalawar station has been seized for scrutiny of the informed irregularities. System improvement advised.

#### July 2014

1. On the basis of a source information, a **Decoy check** was conducted in Railway Senior Secondary School, Gangapur City of Kota Division during which, the Principal of the school demanded and accepted bribe of **₹2,500/-** from his subordinate staff for letting him work comfortably & not harassing him. Money was recovered from the Principal in presence of a Gazetted Officer Vigilance team, complainant and independent witness. Major penalty charge sheet has been recommended against the Principal.
2. On the basis of a source information, a preventive check was conducted in the Reservation office of Panna town of Jabalpur division on 23.07.2014, during which 01 reserved Tatkal ticket was found in possession of on duty ECRC and **₹4,745/-** was found short in the Govt. cash. Major penalty charge sheet issued to the CO on 02.12.2014.
3. During the month, an amount of **₹47,037/-** has been recovered against damage rent for the period from 01.04.2013 to 06.02.2014 from DCRG of Retired Gangman/SSE(PW)/Bhopal, who was detected to be in unauthorised occupation of Quarter No.105K at Habibganj Railway station of Bhopal division during the preventive check conducted on 19.09.2013.

#### August 2014

1. On the basis of a source information, a preventive check was conducted in Train No. 11015 on 04.08.2014 in Itarsi-Bhopal section of Bhopal division, during which 02 unauthorised vendors working in pantry car were found having no Identity card & medical card and were found over charging the passengers for food items. Accordingly, a penalty of **₹5,180/-** was realized against the licence holder on the spot. The case has been transferred to NR on 09.10.2014.
2. On the basis of a source information, a preventive check was conducted in the Railway Refreshment Room at Bhopal station of Bhopal division on 05.08.2014, during which 16 unauthorised vendors were nabbed and charged for **₹4,960/-**, for having no Identity card & medical card. The food quality being supplied to the passengers by the licence holder was also very poor.
3. On the basis of a source information, a preventive check was conducted in Train No. 19714 on 12.08.2014 in Itarsi-Bhopal section of Bhopal division, during which 02 unauthorised vendors working in pantry car were found having no Identity card & medical card and were found over charging the passengers for food items. Accordingly, a penalty of **₹10,160/-** was recovered from the licence holder on the spot. The case has been transferred to NWR on 09.09.2014.
4. On the basis of a source information, a preventive check was conducted in Train No. 11016 on 21.08.2014 in Bina-Bhopal section of Bhopal division during which 07 unauthorised vendors working in pantry car were found working without proper valid travelling authority and were found over charging the passengers for food items. Accordingly, a penalty of **₹9,660/-** was realized against the licence holder on the spot. The case has been transferred to CR on 19.09.2014.
5. दिनांक 21.03.14 को Pest & Rodent control के टेका कं JBP/M/Tender/Pest control dt 23-11-11 में कार्यरत मजदूरों को टेकेदार द्वारा निर्धारित न्यूनतम मजदूरी से कम भुगतान करने के संबंध में सतर्कता निवारक जाँच के दौरान पाया गया कि दिसम्बर 2011 से फरवरी 2014 तक एक ही दर से मजदूरी भुगतान किया जा रहा है जबकि न्यूनतम मजदूरी दर हर 06 माह में Revise हो जाती है। Contract में Supervisor एवं Operator की category "उच्च कुशल" अथवा "कुशल" होगी यह स्पष्ट नहीं किया गया है, जिनसे मजदूरी भुगतान में विसंगति होती है।  
उपरोक्त अनियमितताओं को दूर करने के लिये मुख्य यांत्रिक अभियंता, पमरे, जबलपुर निम्नलिखित प्रणाली सुधार सुझाये गये हैं :-

- (A) Contract agreement में Supervisor एवं Operator की category “उच्च कुशल” अथवा “कुशल” का स्पष्ट उल्लेख होना चाहिए तथा साथ ही साथ श्रम नियोजन मंत्रालय द्वारा जारी परिपत्र के अनुसार ये किस कैटेगरी में आते हैं उसका भी उल्लेख होना चाहिये।
- (B) Minimum Wages Act के रिविजन की कॉपी, फील्ड लेवल पर हर एसएसई को उपलब्ध हो यह भी सुनिश्चित किया जाये।
- (C) Contract agreement में, रेलवे के Supervisor के समक्ष लेबर को पेमेंट की condition का उल्लेख किया जाये।

#### September 2014

1. On the basis of a source information, a preventive check was conducted in train no.11066 on 17.09.14 between KTE and NU station of Jabalpur division, during which 23 unauthorised vendors were nabbed and charged for ₹19,200/-, for having no Identity card & medical card.
2. On the basis of a source information, a preventive check was conducted at Itarsi station and Itarsi-Harda section of Bhopal division on 27.08.2014, during which 22 unauthorised vendors were nabbed and charged for ₹52,650/-, for having no Identity card & medical card.

#### October 2014

1. On the basis of a source information, a preventive check was conducted in train no.12722 on 06.10.14 between Bhopal and Itarsi stations of Bhopal division, during which 04 unauthorised vendors were nabbed and charged for ₹14,000/-, for having no Identity card & medical card. The case has been transferred to NR on 05.11.2014.
2. भोपाल में स्थित नर्मदा क्लब को बुकिंग के समय दी गई शर्तों के संबंध में प्राप्त शिकायत पर की गई जांच के उपरांत क्लब की बुकिंग में आवश्यक शर्त जोड़ने हेतु प्रणाली सुधार (System Improvement) हेतु दिनांक 14.10.2014 को निम्नलिखित सुझाव वरि. मंडल अभियंता (समन्वय)-भोपाल को भेजे गये:-

जितने समय तक क्लब की बुकिंग है उसके अंदर ही टेंट, शामियाना, इलेक्ट्रिक सजावट इत्यादि को क्लब से हटाकर रेलवे परिसर से बाहर ले जाना होगा। अगर इस सामान को नहीं हटाया जाता है तो as a damage rent (to be decided by club committee) प्रतिदिन पेनाल्टी लगेगी एवं यह पेनाल्टी सुरक्षा निधि से भी वसूली जायेगी। अगर पेनाल्टी बैलेंस सुरक्षा निधि से अधिक होगी तो टेंट इत्यादि का सामान बैलेंस पेनाल्टी जमा करने के बाद ही ले जाने दिया जायगा। अगर सामान अगले बुकिंग से एक दिन पहले तक नहीं हटाया जाता तो इस सामान को क्लब मैनेजर अपने आदमियों से उतरवाकर अपनी कस्टडी में ले लेगा एवं आवश्यक पेनाल्टी एवं उतरवाने में जो खर्चा हुआ है उसका भुगतान के बाद ही इस सामान को वापिस किया जायेगा।

उपरोक्त सुझाव पर की गई कार्यवाही से इस कार्यालय को सूचित करने हेतु लिखा गया।

#### November 2014

1. On the basis of a source information, a preventive check was conducted on 05.11.2014 in train no. 12168 between Jabalpur-Itarsi section of Jabalpur division, where it is detected that O.B.H.S. staff were working in train without any travelling authority, accordingly ₹5,350/ raised as per prescribed railway rules. The case has been transferred to CR on 20.02.2015.
2. On the basis of a source information, a preventive check was conducted in train no.12322 on 22.11.14 between Jabalpur and Katni stations of Jabalpur division, during which 03 unauthorised vendors were nabbed and charged for ₹14,308/-, for having no Identity card & medical card.
3. During a preventive check conducted at Kota city of Kota division during the written examination of erstwhile Group 'D' held on 16.11.2014, it is detected that photograph printed on call letter was not matching with the candidate i.e. fake candidate was appearing in the examination.
4. During a preventive check conducted at Kota City of Kota division during the written examination of erstwhile Group 'D' held on 16.11.2014, it was detected that two candidates were exchanging their OMR sheets. On investigation it was noticed that both the candidates were having original voter card with same name and same registration number.
5. During a preventive check conducted at Christ Memorial H.S. School/Bairagarh of Bhopal division during the written examination of erstwhile Group 'D' held on 16.11.2014, it was detected that 23 examination rooms were being looked after by only 15 Railway employees i.e. insufficient railway employees were booked for invigilation.
6. During a preventive check conducted at Kendriya Vidyalaya/COD/Jabalpur of Jabalpur division during written examination of erstwhile Group 'D' held on 23.11.2014, it was detected that two candidates with same name, father's name & from the same place were appearing in the examination.

#### December 2014

1. On the basis of a source information, a preventive check was conducted at DRM/office campus of Jabalpur division, during which a railway employee of commercial department was caught trying to sell unused EFT books. The case has been handed over to CBI and is under further investigation by CBI.
2. On the basis of a source information, a preventive check was conducted in train No. 18234 on 07.12.2014 in SWM-KOTA section of Kota division, during which it is detected that on duty ticket checking staff was carrying 05 without ticket passengers in AC-III, accordingly an amount of **₹18410/-** realized as without ticket. The case has been transferred to WR.
3. On the basis of a source information, a preventive check was conducted in train No. 12853 on 15.12.2014 in Jabalpur-Pipariya section of Jabalpur division, during which it was detected that 32 passengers in party were travelling without ticket in sleeper class, accordingly an amount of **₹12,650/-** realized as without ticket.

#### **January 2015**

1. On the basis of a source information, a preventive check was conducted in a goods train at Goods Shed of ET Railway Station of Jabalpur division on 13.01.2015, in which it was detected that the party was carrying 5.1 tonnes excess goods more than the carrying capacity. Accordingly, **₹18,973/-** was realised as under charges from the party.
2. During a preventive check conducted in train No. 11660 on 07.01.2015 in JBP-NU section of Jabalpur division, it was detected that two unauthorised vendors were selling food items. Accordingly, an amount of **₹10,300/-** recovered as without ticket.
3. During a preventive check conducted in train No. 12903 on 07.01.2015 in KOTA-SWM section of Kota division, it was detected that two unauthorised vendors were selling food items. Accordingly, an amount of **₹8,440/-** recovered as without ticket.
4. During a preventive check conducted regarding quality of Railway electrification work at KM No. 18 in Ramganjmandi-Jhalawad section of Kota division on 08.01.2015, it was detected that special foundation has been done in place of approved CSD without taking permission of competent authority. Now balance foundations are casted as per CSD.

#### **February 2015**

1. During a preventive check conducted in train No. 12903 on 29.01.2015 in KOTA-SWM section of Kota division, it was detected that one unauthorised vendors was selling food items. Accordingly, an amount of **₹4020/-** was recovered as without ticket.
2. On the basis of a source information, a preventive check was conducted on 21.02.2015 at Lakheri station of Kota division, during which it was detected that cancellation/refund of reserved ticket was done without collecting original ticket. The same booking clerk had issued Tatkal ticket also irregularly without passenger's verified ID. Major penalty charge sheet has been issued to the delinquent official.
3. On the basis of a source information, a preventive check was conducted on 12.02.2015 at Kachhpura Goods shed of Jabalpur division, during which it was detected that only four wagon packages were shown in goods unloading book instead of seven wagon packages lying there. Accordingly, an amount of **₹25,050/-** was charged against wharfage.

#### **March 2015**

1. On the basis of a Source information, a preventive check was conducted in train 22181 on 19.03.2015 in Jabalpur- Katni section of Jabalpur division, during which one fake passenger was found in 1stAC having first class P/pass.
2. During a preventive check conducted in train No. 11062 on 04.03.2015 in Jabalpur-Narsinghpur section of Jabalpur division, it was detected that three unauthorised vendors was selling food items. Accordingly, an amount of **₹20,370/-** was recovered as without ticket.
3. On the basis of a source information, a preventive check was conducted on 24.03.2015 at Narsinghpur railway hospital of Jabalpur division, during which it was detected that staff was availing 2 hours lunch time instead of stipulated 30 minutes.
4. On the basis of a source information, a preventive check was conducted on 19.09.2014 in the office of Sr.ISA/C/Bhopal office of Bhopal division, during which it was detected that concerned Sr.ISA/C/BPL had claimed false TA for inspection.

5. On the basis of a source information, a preventive check was conducted on 22.02.2015 in the office of SSE/S/M/ Vidisha office of Bhopal division, during which it was detected that entries of D&AR cases were not being made in the service registers of the employees.
6. On the basis of a source information, a preventive check was conducted on 26.02.2015 in the office of DEE/C/KTT of Kota division, during which it was detected that SSEs had not signed the attendance register though they were present. Also the movement register was not being maintained in the office.

#### **Highlights:**

##### **Vigilance Camps & Seminars**

Regular vigilance camps and seminars have been organised to educate the field staff by WCR Vigilance organization. In these camps/seminars, senior subordinates and other staff have been educated by Vigilance officers through interactive lectures on precautions to be taken during execution of works contracts and on establishment matters (Conduct Rules & DAR etc.) with an objective to minimize the vigilance cases due to lack of knowledge on these subjects during day to day working. The response of these camps/seminars has been quite satisfactory. In addition, Vigilance related complaints were also received in these camps from passengers and railway employees of nearby areas. These camps/seminars have been very useful for the staff as they were benefited by the lectures during these camps/seminars. Total 9 camps/seminar as detailed below have been organised during the period.

**May 2014: One Vigilance camp/seminar** of 2 days at **Shamgarh Railway Station** of Kota division on 19<sup>th</sup> & 20<sup>th</sup> May 2014 has been organized during the month.

**June 2014: One Vigilance camp/ seminar** of 2 days at **Bharatpur Railway Station** of Kota division on 10<sup>th</sup> & 11<sup>th</sup> June, 2014 has been organized during the month.

**July 2014: One Vigilance camp/ seminar** of 2 days at **Mandal Garh Railway Station** of Kota division on 15<sup>th</sup> & 16<sup>th</sup> July, 2014 has been organized during the month.

**August 2014: One Vigilance camp/ seminar** of 2 days at **Baran Railway Station** of Kota division on 7<sup>th</sup> & 8<sup>th</sup> August, 2014 has been organized during the month.

**September 2014: One Vigilance camp/ seminar** of 2 days at **Guna Railway Station** of Bhopal division on 11<sup>th</sup> & 12<sup>th</sup> September, has been organized during the month.

**October - November 2014:** The Vigilance Awareness Week has been celebrated on this railway from 27.10.2014 to 01.11.2014. The celebration of Vigilance Awareness Week was started by administering the pledge by the General Manager to all HQ officials at 11.00 hrs. on 27.10.2014. During the Vigilance Awareness Week, the Seminars were organized by Vigilance deptt. in the HQ on 29.10.2014, in Jabalpur divn. on 29.10.2014, in Bhopal divn. on 30.10.2014 and in Kota divn. on 01.11.2014.

During the seminar in HQ on 29.10.2014, a Vigilance Bulletin for the period from January 2014 to June, 2014 was also released by the General Manager. General Manager has announced an award of ₹ 20,000/- in appreciation of Vigilance Awareness Week. In the divisions Vigilance deptt. also gave Power Point presentation on **“Combating corruption-Technology as an enabler”** and Discipline & Appeal Rules in which all the officers of divisions and workshops were present along with some senior subordinates as well. Skits were also staged in the Divisions on the evils of corruption and its eradication.

**December 2014: One Vigilance camp/seminar** of 2 days at **Harda Railway Station** of Bhopal division on 18<sup>th</sup> & 19<sup>th</sup> December, 2014 has been organized during the month.

**January 2015: One Vigilance camp/ seminar** of 2 days at **Narasinghpur Railway Station** of Jabalpur division on 15<sup>th</sup> & 16<sup>th</sup> January, 2015 has been organized during the month.

**February 2015: A Vigilance seminar** at **Bhopal Railway Station** of Bhopal division on 24<sup>th</sup> February, 2015 has been detected during the month.

**March 2015: One Vigilance camp/ seminar** of 2 days at **Bina Railway Station** of Bhopal division on 18<sup>th</sup> & 19<sup>th</sup> March, 2015 has been organized during the month.



Vigilance Camp at Mandal Garh on 15<sup>th</sup> & 16<sup>th</sup> July 2014..



Seminar during Vigilance Camp at Guna on 11<sup>th</sup> & 12<sup>th</sup> September 2014.



Vigilance deptt. in the HQ on 29.10.2014



Pledge taking during Vigilance Awareness Week at HQ on 27<sup>th</sup> October 2014.



Seminar during Vigilance Awareness Week at HQ on 29<sup>th</sup> October 2014.



Seminar during Vigilance Awareness Week at HQ on 29<sup>th</sup> October 2014.



Seminar during Vigilance Awareness Week at Kota on 1<sup>st</sup> Nov-2014.



Prize distribution during Vigilance Awareness Week at Kota on 1<sup>st</sup> Nov-2014.

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## 17. सांख्यिकीय/STATISTICAL

पश्चिम मध्य रेल में सांख्यिकीय विभाग वित्त सलाहकार एवं मुख्य लेखा अधिकारी (यातायात) के अधीन एक स्वतंत्र ईकाई के रूप में जोनल आई.टी.सेंटर में वरिष्ठ सांख्यिकीय एवं विश्लेषण अधिकारी के नियंत्रण में स्थापित किया गया है। रेलवे बोर्ड में सांख्यिकीय निदेशालय वित्तीय आयुक्त तथा अतिरिक्त सदस्य (वित्त) के अधीन कार्यकारी निदेशक (सांख्यिकीय एवं आर्थिक) के नियंत्रण में अनेक निदेशक, संयुक्त निदेशक, उपनिदेशक, अनुभाग अधिकारी, सांख्यिकीय निरीक्षक एवं अन्य सचिवालयीन स्टाफ कार्यरत है। जोनल रेलवे के उपयोग हेतु अनेक महत्वपूर्ण त्रैमासिक व वार्षिक रिपोर्टों का प्रकाशन सांख्यिकीय विभाग द्वारा किया जाता है। रेलवे में सांख्यिकीय विभाग सेकंडरी डाटा संकलन करता है। विभिन्न विभागों, स्टेशनों, बुकिंग कार्यालयों, मालगोदाम, लोकोशेड, वर्कशॉप, वैगन रिपेयर डिपो, नियंत्रण कार्यालय आदि स्थानों से संकलित आँकड़ों को वार्षिक, मासिक अथवा 10 दिवसीय आवधिक विवरणों के रूप में प्राप्तकर सांख्यिकीय विभाग द्वारा निर्धारित प्रपत्रों में सारणीबद्ध कर रेलवे बोर्ड में भेजा जाता है।

वास्तव में सांख्यिकीय विधियों का प्रयोग घटनाओं का विश्लेषण करने में तथा महत्वपूर्ण नीति निर्धारण के लिये किया जाता है। भारतीय रेलवे का मुख्य कार्य है - यातायात का उत्पादन और उसका विक्रय करना। चाहे यात्री यातायात हो अथवा माल यातायात, लक्ष्य दोनों में एक ही है कि कम से कम लागत में रेलवे को अधिक से अधिक लाभ देना। सांख्यिकी के माध्यम से रेलवे ने त्रि-आयामी लक्ष्य यथा 1. सकल आय में बढ़ोतरी करना, 2. कार्य कुशलता में दक्षता लाना तथा 3. अनुपार्जक यातायात व कार्यों का पता लगाकर उसे कम करना, इन सभी में सफलता प्राप्त की है तथा इस ओर निरंतर और भी प्रयास किये जा रहे हैं।

पश्चिम मध्य रेल में एकमात्र ब्रॉडगेज व दो कर्षण यथा (1) एसी विद्युत् व (2) डीजल-विद्युत् पर कार्य होता है। अतः सांख्यिकीय विवरण भी इन्हीं पर आधारित होते हैं। सांख्यिकीय नियमावली भाग-1 व भाग-11 के निर्देशानुसार पश्चिम मध्य रेल द्वारा निर्धारित 19 मासिक एवं 44 वार्षिक विवरणों के संकलन का कार्य नियमित रूप से किया जा रहा है। इसके अतिरिक्त इस विभाग द्वारा “महाप्रबंधक की वार्षिक रिपोर्ट” तथा “वित्तीय परिणामों एवं सांख्यिकीय आँकड़ों की पॉकेट बुक” की छपाई का काम भी प्रतिवर्ष किया जाता है। पश्चिम मध्य रेल में सांख्यिकीय विभाग द्वारा ये सभी कार्य अत्यल्प साधनों द्वारा बड़ी ही कुशलता एवं तत्परता से किये जा रहे हैं। इन विवरणों में उपलब्ध आँकड़ों का उपयोग महत्वपूर्ण वार्षिक रेल बजट बनाने में किया जाता है। इसके अतिरिक्त आय-व्यय के विभिन्न परिचालन परिणामों के आधार पर ईकाई लागत की गणना की जाती है। इनका प्रयोग रेलवे की वित्तीय स्थिति में सुधारात्मक प्रयोग करने, कार्य दक्षता बढ़ाने एवं सामाजिक दायित्व का निर्वहन करते हुये आम जनता को कम से कम किराये में यातायात की अधिक से अधिक सुविधा उपलब्ध कराने में किया जाता है।

पश्चिम मध्य रेल में सांख्यिकीय विभाग का संगठनात्मक स्वरूप:-

वित्त सलाहकार एवं मुख्य लेखा अधिकारी - वित्त सलाहकार एवं मुख्य लेखा अधिकारी (यातायात)  
मुख्य सूचना अधिकारी (एसजी)  
वरि.सांख्यिकीय एवं विश्लेषण अधिकारी (वरि.वे.मा.)

स्टाफ संख्या:

संवर्ग	स्वीकृत पद	ऑन रोल	रिक्त पद
लिपिक संवर्ग	07	07	00
निरीक्षक संवर्ग	08	05	03
अन्य संवर्गों में	06	02	04
कुल	21	14	07

**Result of Working of Coaching and Goods Traffic - (End Results)**

(Figures in ₹)

Description	FY: 2013-14		FY: 2014-15	
	Excl. Interest on capital	Incl. Interest on capital	Excl. Interest on capital	Incl. Interest on capital
<b>A. Coaching Traffic (Figures in ₹)</b>				
Total Coaching Earning (₹ in crores)	2489.95	2489.95	2897.06	2897.06
Working Expenses - Coaching (₹ in crores)	3096.69	3162.49	3228.15	3303.67
Coaching earnings per train Km.	630.89	630.89	711.69	711.69
Cost of hauling a passenger train one Km.	784.63	801.30	793.02	811.57
Profit on working a passenger train one Km.	-153.74	-170.41	-81.33	-99.88
Earnings per coaching vehicle per Km.	15.55	15.55	16.93	16.93
Cost of hauling a coaching vehicle one Km.	19.34	19.75	18.87	19.31
Profit on working a coaching vehicle per KM.	-3.79	-4.20	-1.94	-2.38
Earning per passenger per Km.	0.34	0.34	0.38	0.38
Cost per passenger per Km.	0.42	0.43	0.43	0.44
Profit per passenger per Km.	-0.08	-0.9	-0.04	-0.05
<b>B. Goods Traffic (Figures in ₹)</b>				
Total Goods Earning (₹ in crores)	6247.04	6247.04	7609.65	7609.65
Working Expenses - Goods (₹ in crores)	3111.57	3206.50	3449.44	3555.06
Goods earnings per train Km.	2234.36	2234.36	2692.16	2692.16
Cost of hauling a goods train one Km.	1112.90	1146.86	1220.35	1257.71
Profit on working a goods train one Km.	1121.46	1087.50	1471.81	1434.45
Earnings per goods wagon per kilometre	45.11	45.11	55.98	55.98
Cost of hauling a goods wagon one Km.	22.47	23.16	25.37	26.15
Profit on working a goods wagon one Km.	22.64	21.95	30.61	29.83
Earnings per goods tonne one Km.	1.14	1.14	1.38	1.38
Cost of hauling one tonne of goods per Km.	0.57	0.59	0.62	0.64
Profit on working a goods tonne one Km.	0.57	0.55	0.76	0.74

**कुछ महत्वपूर्ण सांख्यिकीय परिणाम/ Some Important Statistical Results:**

क्र.सं. Sr. No.	विवरण/ Description	ईकाई/ Unit	2013-14	2014-15
वित्तीय सांख्यिकीय/Financial Statistics:				
1	ब्याजदेय पूँजी/Capital at Charge	₹ in Crores	3745.44	3965.68
2	सकल आय/Gross Earnings	₹ in Crores	8736.99	10506.71
3	कुल संचालन व्यय/Total Working Expenses	₹ in Crores	6208.93	6678.48
4	कुल राजस्व/Net Revenue	₹ in Crores	2575.13	3851.78
5	परिचालन अनुपात/Operating Ratio in %age	Percentage	71.06	63.56
स्टेशन संख्या एवं मार्ग किमी./Stations & Route Kilometrage				
1	31 मार्च को स्टेशनों की संख्या/ No. of Stations as on 31 <sup>st</sup> March	Nos.	294	296
2	31 मार्च को मार्ग किमी./ Route Kilometers as on 31 <sup>st</sup> March	Kms	2992.07	2995.07
3	31 मार्च को रनिंग ट्रैक किमी./ Running Track KMs as on 31 <sup>st</sup> March	Kms	4741.89	4769.25
यात्री यातायात सांख्यिकी/Passenger Traffic Statistics:				
1	आरंभिक यात्री संख्या/Passenger Originating	No. in Lakhs	1425.46	1390.04
2	यात्री किमी./Passenger Kms	Kms in Crores	7309.38	7587.14
3	यात्री परिवहन से प्राप्त आय/ Earning from Passenger carried	₹ in Crores	2330.53	2692.56
4	ढोये गये यात्री संख्या/Passengers Carried	No. in Lakhs	2814.30	2879.03
5	प्रति यात्री औसत गमन दूरी/ Average Lead of a Passenger	Kms	260	264
6	प्रति यात्री प्रति किमी.औसत किराया/ Avg. Rate Charged per Passenger/Km.	Paise	31.88	35.49
माल यातायात सांख्यिकी/Freight Traffic Statistics:				
1	आरंभिक माल टन/ Freight Tonnes Originating	Tonnes in Lakhs	370.04	408.74
2	माल यातायात टन किमी./ Freight Tonnes Kms	Kms in Crore	5461.64	5530.88
3	ढोये गये माल यातायात से प्राप्त आय/ Earning from Goods carried	₹ in Crore	6056.96	6856.92
4	औसत गमन दूरी/Average lead	Kms	402.00	358.00
5	रेलवे सिस्टम में ढोये गये माल टनेज/ Tonnes Carried on System	Kms in Lakhs	1359.40	1546.36
6	औसत दर/Average Rate	Paise	110.90	123.98



**विभागवार कुल स्टाफ व लागत/Department wise No. of staff & cost**

Sr. No.	Department	Year	Average No. of Staff employed during the year					Total Wages of staff (₹ in Crores)					Total cost of staff incl. Pensionary benefits (₹ in Crores)				
		Group	A	B	C	D	Total	A	B	C	D	Total	A	B	C	D	Total
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	प्रशासन Administration	2013-14	20	18	1531	21	1590	3.35	1.56	36.79	0.43	42.12	3.84	2.08	86.05	0.46	92.43
		2014-15	20	18	1525	15	1578	3.53	1.68	36.14	0.32	41.66	4.96	3.62	92.46	0.32	101.36
2	कार्मिक Personnel	2013-14	13	43	774	3	833	1.18	2.92	32.85	0.07	37.01	1.44	3.27	53.81	0.07	58.59
		2014-15	15	37	773	4	829	1.46	3.00	32.85	0.09	37.41	2.05	4.42	57.05	0.09	63.60
3	लेखा Accounts	2013-14	17	28	752	0	797	2.05	2.44	41.06	0.00	45.55	2.47	2.80	80.54	0.00	85.81
		2014-15	19	27	740	0	786	2.90	2.91	49.06	0.00	54.86	3.77	4.45	92.84	0.00	101.06
4	अभियंत्रिकी Civil Engg.	2013-14	50	81	17084	6	17221	4.97	5.56	384.22	0.12	394.86	5.88	6.43	652.37	0.12	664.80
		2014-15	52	79	16573	7	16711	5.13	5.33	383.57	0.15	394.18	7.05	8.73	690.03	0.15	705.96
5	यंत्रिकी Mech. Engg.	2013-14	22	27	12024	26	12099	2.76	1.70	425.14	0.49	430.08	3.34	2.08	550.34	0.49	556.25
		2014-15	25	33	12036	27	12121	3.16	2.38	457.02	0.57	463.12	4.67	3.93	606.98	0.59	616.17
6	विद्युत यंत्रिकी Elect. Engg.	2013-14	31	35	5846	23	5935	2.99	2.23	176.73	0.48	182.43	3.60	2.66	223.68	0.48	230.42
		2014-15	36	38	5781	30	5885	3.46	2.51	181.69	0.62	188.28	5.07	4.20	237.23	0.64	247.14
7	संकेत व दू.सं. S & T	2013-14	28	40	3518	12	3598	2.88	1.89	98.34	0.27	103.38	3.48	2.43	175.93	0.27	182.11
		2014-15	28	34	3459	13	3534	3.35	2.37	110.24	0.29	116.25	4.96	4.32	201.78	0.30	211.37
8	परिवहन Transportation	2013-14	18	14	8941	24	8997	2.06	1.36	393.27	0.64	397.33	2.46	1.58	649.93	0.65	654.62
		2014-15	24	12	9048	37	9121	2.74	1.16	435.77	0.84	440.51	3.80	2.08	728.62	0.85	735.35
9	वाणिज्य Commercial	2013-14	8	9	3211	4	3232	1.07	0.74	118.38	0.07	120.26	1.36	1.00	229.02	0.07	231.45
		2014-15	12	7	3252	3	3274	1.54	0.75	104.72	0.07	107.08	2.34	1.64	231.32	0.07	235.37
10	भंडार Stores	2013-14	16	25	586	7	634	1.97	1.32	16.26	0.15	19.70	2.25	1.51	38.49	0.15	42.39
		2014-15	17	22	586	7	632	2.30	1.33	19.50	0.17	23.31	3.05	2.11	45.26	0.18	50.60
11	चिकित्सा Medical	2013-14	61	11	1208	3	1283	6.83	0.58	35.73	0.07	43.21	8.74	0.70	77.39	0.07	86.89
		2014-15	62	11	1191	3	1267	7.06	0.75	44.88	0.08	52.77	12.46	1.12	93.17	0.08	106.83
12	रेल सु. बल R.P.F.	2013-14	12	0	1340	0	1352	1.12	0.00	43.01	0.00	44.13	1.39	0.00	88.01	0.00	89.40
		2014-15	13	0	1296	0	1309	1.34	0.00	54.74	0.00	56.08	2.04	0.00	106.50	0.00	108.54
13	कुल प.म.रेल Total WCR	2013-14	296	331	56815	129	57571	33.22	22.28	1801.78	2.77	1860.04	40.25	26.54	2905.55	2.83	2975.16
		2014-15	323	318	56260	146	57047	37.97	24.17	1910.17	3.21	1975.52	56.20	40.62	3183.25	3.28	3283.36

Sr. No.	Department	Year	Average No. of Staff employed during the year					Average Wages per Employee as per Col.9 to 13 (₹ in Lakhs)					Average Cost per Employee as per Col.14 to 18 (₹ in Lakhs)				
		Group	A	B	C	D	Total	A	B	C	D	Total	A	B	C	D	Total
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
1	प्रशासन Administration	2013-14	20	18	1531	21	1590	16.73	8.66	2.40	2.03	2.65	19.22	11.55	5.62	2.19	5.81
		2014-15	20	18	1525	15	1578	17.65	9.34	2.37	2.11	2.64	24.79	20.11	6.06	2.14	6.42
2	कार्मिक Personnel	2013-14	13	43	774	3	833	9.08	6.78	4.24	2.26	4.43	11.06	7.61	6.95	2.27	7.01
		2014-15	15	37	773	4	829	9.77	8.11	4.25	2.24	4.51	13.69	11.93	7.38	2.26	7.67
3	लेखा Accounts	2013-14	17	28	752	0	797	12.04	8.72	5.46	0.00	5.72	14.53	10.02	10.71	0.00	10.77
		2014-15	19	27	740	0	786	15.26	10.76	6.63	0.00	6.98	19.83	16.49	12.55	0.00	12.86
4	अभियंत्रिकी Civil Engg.	2013-14	50	81	17084	6	17221	9.93	6.86	2.25	1.97	2.29	11.77	7.94	3.82	2.01	3.86
		2014-15	52	79	16573	7	16711	9.87	6.75	2.31	2.17	2.36	13.55	11.05	4.16	2.19	4.22
5	यांत्रिकी Mech. Engg.	2013-14	22	27	12024	26	12099	12.52	6.29	3.54	1.88	3.55	15.16	7.72	4.58	1.90	4.60
		2014-15	25	33	12036	27	12121	12.62	7.22	3.80	2.11	3.82	18.67	11.90	5.04	2.20	5.08
6	विद्युत यांत्रिकी Elect. Engg.	2013-14	31	35	5846	23	5935	9.65	6.36	3.02	2.08	3.07	11.61	7.59	3.83	2.10	3.88
		2014-15	36	38	5781	30	5885	9.60	6.60	3.14	2.08	3.20	14.07	11.05	4.10	2.14	4.20
7	संकेत व दू.सं. S & T	2013-14	28	40	3518	12	3598	10.28	4.74	2.80	2.21	2.87	12.42	6.07	5.00	2.27	5.06
		2014-15	28	34	3459	13	3534	11.98	6.96	3.19	2.27	3.29	17.72	12.72	5.83	2.33	5.98
8	परिवहन Transportation	2013-14	18	14	8941	24	8997	11.47	9.68	4.40	2.67	4.42	13.68	11.29	7.27	2.69	7.28
		2014-15	24	12	9048	37	9121	11.42	9.65	4.82	2.28	4.83	15.83	17.35	8.05	2.30	8.06
9	वाणिज्य Commercial	2013-14	8	9	3211	4	3232	13.39	8.20	3.69	1.82	3.72	16.95	11.14	7.13	1.84	7.16
		2014-15	12	7	3252	3	3274	12.82	10.77	3.22	2.18	3.27	19.50	23.47	7.11	2.29	7.19
10	भंडार Stores	2013-14	16	25	586	7	634	12.33	5.29	2.77	2.08	3.11	14.07	6.02	6.57	2.08	6.69
		2014-15	17	22	586	7	632	13.55	6.05	3.33	2.48	3.69	17.94	9.61	7.72	2.51	8.01
11	चिकित्सा Medical	2013-14	61	11	1208	3	1283	11.19	5.24	2.96	2.18	3.37	14.32	6.33	6.41	2.18	6.77
		2014-15	62	11	1191	3	1267	11.38	6.80	3.77	2.76	4.16	20.09	10.15	7.82	2.78	8.43
12	रेल सु. बल R.P.F.	2013-14	12	0	1340	0	1352	9.30	0.00	3.21	0.00	3.26	11.59	0.00	6.57	0.00	6.61
		2014-15	13	0	1296	0	1309	10.28	0.00	4.22	0.00	4.28	15.66	0.00	8.22	0.00	8.29
13	कुल प.म.रेल Total WCR	2013-14	296	331	56815	129	57571	11.22	6.73	3.17	2.15	3.23	13.60	8.02	5.11	2.19	5.17
		2014-15	323	318	56260	146	57047	11.75	7.60	3.40	2.20	3.46	17.40	12.77	5.66	2.25	5.76

**ग्रुप वार कुल स्टाफ संख्या एवं लागत/Group wise Total Number of Staff & Cost 2014-15**

कुल स्टाफ संख्या व लागत	ग्रुप / वर्ष	2010-11	2011-12	2012-13	2013-14	2014-15
वर्ष में औसत स्टाफ संख्या Average No. of Staff during the year	ग्रुप "A"	278	280	271	296	323
	ग्रुप "B"	334	344	297	331	318
	ग्रुप "C"	56517	55645	57016	56815	56260
	ग्रुप "D"	43	44	60	129	146
	कुल योग/Total	57172	56313	57644	57571	57047
कुल लागत पेंशन सहित (₹ हजार में) Total Cost Incl. Pension (₹ in Thousands)	ग्रुप "A"	270108	277515	312191	402453	562027
	ग्रुप "B"	178449	211107	218337	265425	406215
	ग्रुप "C"	21701242	20593830	21873617	29055490	31832500
	ग्रुप "D"	4501	8487	11448	28281	32817
	कुल योग/Total	22154300	21090940	22415593	29751649	32833559
औसत लागत प्रति कर्मचारी प्रति वर्ष (₹ में) Average Cost Per Employee (in ₹)	ग्रुप "A"	971612	991126	1151996	1359639	1740022
	ग्रुप "B"	534278	613684	735141	801888	1277406
	ग्रुप "C"	283977	370093	383640	511405	565811
	ग्रुप "D"	104674	198295	190800	219233	224774
	कुल योग/Total	387503	374531	388863	516782	575553

**टन किमी./Tonne Kilometrage:**

**(Fig. in Thousands)**

विवरण/Description	डीजल विद्युत्/Diesel Electric		एसी विद्युत्/A.C. Electric		सभी कर्षण/All Traction	
	2013-14	2014-15	2013-14	2014-15	2013-14	2014-15
निवल टन किमी (गुड्स)/ NTKms (Goods)	10451425	10726296	44123167	44545493	54574592	55271789
सकल टन किमी (इंजिन भार एवं विभागीय रहित) GTKMs (excl. Weight of engine & departmental)						
i यात्री यातायात/ Passenger Traffic	2100365	22588975	24626708	25386720	45628073	47975694
ii माल यातायात/ Goods Traffic	17903003	17967109	71597518	71601427	89500521	89568535
सकल टन किमी (इंजिन भार सहित एवं विभागीय रहित) GTKMs (incl. Weight of engine but excl. departmental)						
i यात्री यातायात/ Passenger Traffic	23227290	24837259	27169118	28044441	50396408	52881701
ii माल यातायात/ Goods Traffic	19256073	19353229	75223130	75657751	94479203	95010980
सकल टन किमी (इंजिन भार एवं विभागीय सहित) GTKMs (incl. Weight of engine & departmental)						
i यात्री यातायात/ Passenger Traffic	23241582	24837260	27174263	28044441	50415845	52881701
ii माल यातायात/ Goods Traffic	19270082	19356980	75227347	75658912	94497429	95015891

**मालगाड़ी निष्पादन/Goods Train Performance-****(Fig. in Thousands)**

विवरण/ Description	डीजल विद्युत्/ Diesel Electric		एसी विद्युत्/ AC Electric		सभी कर्षण/ All Tractions	
	2013-14	2014-15	2013-14	2014-15	2013-14	2014-15
मालगाड़ी औसत प्रतिदिन/ Trains Avg/day	139.4	129.8	385.5	384.1	524.9	513.9
मालगाड़ी किमी/ Goods Train Kilometres	6193	6104	21603	22162	27796	28266
मालगाड़ी घंटे/ Goods Train Engine Hours	173.5	185.7	555.2	580.0	728.7	765.7
औसत गति/ Average Speed (KMPH)	35.69	32.87	38.91	38.21	38.14	36.92
लोडेड वैगन किमी/ Loaded Wagon Kms	188192	179106	822981	769523	1011173	948629
खाली वैगन किमी/ Empty Wagon Kms	107075	107840	266487	302963	373562	410803
कुल वैगन किमी/ Total Wagon Kms	295267	286946	1089468	1072486	1384735	1359432

**यात्री गाड़ी निष्पादन/Passenger Train Performance-****(Fig. in Thousands)**

विवरण/ Description	डीजल विद्युत्/ Diesel Electric		एसी विद्युत्/ AC Electric		सभी कर्षण/ All Tractions	
	2013-14	2014-15	2013-14	2014-15	2013-14	2014-15
यात्रीगाड़ी औसत प्रतिदिन/ Trains Avg/ day	351.6	356.0	414.2	431.8	765.8	787.8
यात्रीगाड़ी किमी/ Passenger Train Kms	17737	17964	21730	22743	39467	40707
यात्रीगाड़ी घंटे/ Passenger Train Hours	376.7	379.4	379.3	398.6	756.0	778.0
औसत गति/ Average Speed (KMPH)	47.01	47.35	57.29	57.06	52.21	52.32
व्हीकल किमी/ Vehicle Kms	736890	806143	864095	904670	1600985	1710813

**इंजन किमी./Engine Kilometres -****(Fig. in Thousands)**

विवरण/ Description	डीजल विद्युत्/ Diesel Electric		एसी विद्युत्/ AC Electric		सभी कर्षण/ All Tractions	
	2013-14	2014-15	2013-14	2014-15	2013-14	2014-15
a यात्री इंजन किमी/ Passenger EKms	19630	19199	21730	22743	41360	41942
b गुड्स इंजन किमी/ Goods EKms	10807	11846	30986	34870	41793	46716
c विभागीय इंजन किमी/ Departmental Engine Kms.	378	73	126	23	504	96
d कुल इंजन किमी/ Total Engine Kms.	30815	31118	52842	57636	83657	88754

**गाड़ी किमी./Train Kilometres: (in units)**

मंडल/ Division	कर्षण/ Traction	मेल एक्सप्रेस/ Mail/Express	अन्य पैसंजर/ Oth Passenger	कुल पैसंजर/ All Passenger	मालगाड़ी/ Total Goods	विभागीय/ Deptl.	कुलयोग/ All Services
<b>Year 2013-14</b>							
भोपाल/BPL	Electric	9425535	1045878	10471413	5440099	16467	15927979
	Diesel	2201666	482579	2684245	892505	46859	3623609
	Total	11627201	1528457	13155658	6332604	63326	19551588
कोटा/KOTA	Electric	7409397	1499166	8908563	11186428	549	20095540
	Diesel	1031735	901238	1932973	717186	204	2650363
	Total	8441132	2400404	10841536	11903614	753	22745903
जबलपुर/JBP	Electric	1707142	642518	2349660	4978853	76242	7404755
	Diesel	10950307	2169364	13119671	4744716	218568	18082955
	Total	12657449	2811882	15469331	9723569	294810	25487710
योग पमरेल/ Total WCR	Electric	18542074	3187562	21729636	21605380	93258	43428274
	Diesel	14183708	3553181	17736889	6354407	265631	24356927
	Total	32725782	6740743	39466525	27959787	358889	67785201
<b>Year 2014-15</b>							
भोपाल/BPL	Electric	9935034	1032879	10967913	5711448	9020	16688381
	Diesel	2109573	469801	2579374	979368	23253	3581995
	Total	12044607	1502680	13547287	6690816	32273	20270376
कोटा/KOTA	Electric	7774804	1540650	9315454	10431928	0	19747382
	Diesel	1001241	862150	1863391	624523	10992	2498906
	Total	8776045	2402800	11178845	11056451	10992	22246288
जबलपुर/JBP	Electric	1771341	688390	2459731	6017963	14261	8491955
	Diesel	11386689	2134084	13520773	4501070	38439	18060282
	Total	13158030	2822474	15980504	10519033	52700	26552237
योग पमरेल/ Total WCR	Electric	19481179	3261919	22743098	22161339	23281	44927718
	Diesel	14497503	3466035	17963538	6104961	72684	24141183
	Total	33978682	6727954	40706636	28266300	95965	69068901

**व्हीकल किमी./Vehicle Kilometers:-**
**(Fig. in Thousands)**

विवरण/Description	डीजल विद्युत्/Diesel Electric		एसी विद्युत्/A.C. Electric		सभी कर्षण/All Tractions	
	2013-14	2014-15	2013-14	2014-15	2013-14	2014-15
1	2	3	4	5	6	7
यात्री कोचिंग व्हीकल/Passenger Coaching Vehicles						
(i) एसी प्रथम/AC First Class	5512	6043	17080	17909	22592	23952
(ii) प्रथम/First Class	0	0	160	167.79	160	167.79
(iii) एसी 2टियर/AC 2 Tier Sleeper	31818	34888	56400	59134	88217	94022
(iv) एसी 3टियर/AC 3 Tier Sleeper	47980	52610	107459	112669	155439	165279
(v) एसी चेअरकार/AC Chair Car	1200	1315	1561	1636	2760	2952
(vi) स्लीपर/Sleeper Class	314292	344618	399665	419041	713957	763660
(vii) अन्य द्वितीय/ Second Class	320893	351856	244652	256513	565545	608369
(viii) टूरिस्ट,कार/Tourist Car/Saloon	0	0	0	0	0	0
(ix) कुल पीसीवीकिमी/Total PCV KMs.	721694	791331	826977	867070	1548671	1658401
(x) कुल ओसीवी किमी/Total OCV KMs	15196	14812	37118	37600	52314	52412
(xi) कुल व्हीकल किमी/Total VKms	736890	806143	864095	904670	1600985	1710813

**इंजिन उपयोगिता (क्षेत्रीय आधार पर)/Engine Utilization (Territorial basis)-**

वर्ष/Year		2013-14			2014-15		
सेवा/Service	Traction	Holding	Engine Kms	Usage	Holding	Engine Kms	Usage
पैसेंजर/Passenger	Diesel	82.48	21376080	710	87.36	23237492	729
	AC Electric	107.56	27118460	691	114.17	28439090	682
गुड्स/Goods	Diesel	132.96	18670314	385	136.60	19746370	396
	AC Electric	405.89	88702125	599	410.13	88390945	590
कुल योग/All services	Diesel	272.93	40046394	409	271.09	42983862	434
	AC Electric	513.69	115820585	618	525.44	116830035	609

**दक्षता/Efficiency-**

आयटम/ITEMS		2013-14	2014-15
नेट टन किमी प्रति वैगन दिवस(इन यूज)/NTkms/Wagon day in use (8 wh unit)		11418.6	12156.9
वैगन किमी प्रति वैगन दिवस(इन यूज)/Wagon kms/ wagon day in use (In terms of 8 wh)		305.7	317.3
वैगन किमी/वैगन दिवस(ऑन लाइन)/Wagon kms/wagon day on line (In terms of 8 wh)		286.9	299.0
औसत मालडिब्बा भार/Average wagon load during the run - All traffic (In Tonnes)		56.0	58.3
व्हीकल किमी प्रति व्हीकल दिवस/Vehicles Kms/vehicle day (4 wh unit)		560.3	592.3
यात्री कोचिंग व्हीकल/Passenger Coaching Vehicle		562.6	593.8
अन्य कोचिंग व्हीकल/Other Coaching Vehicle		367.1	442.7
नेट टन किमी/गुड्स लोको दिन (इन यूज)/NTKms/goods Loco day in use	विद्युत्/Electric	890927	844798
	डीजल/Diesel	386474	374827
	कुलयोग/Total	712760	679467
नेट टन किमी/गुड्स लोको दिन (ऑन लाईन)/NTKms/goods Loco day on line	विद्युत्/Electric	826493	771508
	डीजल/Diesel	262907	255704
	कुलयोग/Total	585946	554457

**TRAFFIC COSTING BRANCH:**

On Indian Railways Traffic Costing Branch is an independent unit functioning under FA&CAO and headed by Traffic Costing Officer but on WCR the branch is functional under control of Sr.Statistics & Analysis Officer itself. Statistical wing provides various performance data tabulated in five groups of statistics maintained in the form of 19 Monthly and 45 Annual Statistical Statements for use of Traffic Costing Branch for co-relating them with expenditure and preparing various cost studies on annual basis.

Objective of traffic costing is to provide data essential for a wide field of management decisions and for the formulation of national policy in the transport field. The basic objectives of Traffic Costing are-

- i. to provide basic data for rate making;
- ii. to help in carrying out the profitability analysis of existing and potential traffic;
- iii. to create cost consciousness and help in cost control; and
- iv. to provide data for project appraisals and evaluation of further capital investment.

Traffic costing relies heavily on Railway statistics for basic data about Railway's performance. Annual Statistical Statement No.15 which gives the result of working of Coaching & Goods services on Indian Railways provides the background material for traffic costing. This contains the information as-

- i. cost of hauling a passenger train & passenger vehicle over one kilometer
- ii. cost of hauling a goods train & goods wagon over one kilometer and
- iii. Cost of hauling a tonne over one kilometre.

Organizational Set up of Traffic Costing Branch on West Central Railway is as under-

Sr. No.	Cadre	No. of Staff		Remarks
		Sanctioned	On Roll	
1	Gazetted	Nil	Nil	Looked after by Sr. Statistics & Analysis Officer
2	Non-Gazetted			Entire work is looked after by One AA & One JAA posted by accounts department
	i. Traffic Costing Inspectors	Nil	Nil	
	ii. AA / JAA	2	2	

**PROFITABILITY OF COACHING SERVICE WISE:-****Passenger Service – (A) Mail Express**

Sr. No.	Services	Profit / (-) Loss (in ₹)	
		2013-14	2014-15
1	AC First Class	-978.54	-1091.47
2	AC Sleeper	6094.24	9630.78
3	AC 3tier	22624.14	32866.87
4	AC Chair Car	1542.49	1304.94
5	First Class	13.26	15.89
6	Sleeper Class	-35192.04	-20558.59
7	Second Class	-8969.08	-8225.36
8	<b>Total Mail Express</b>	<b>-14865.54</b>	<b>13943.05</b>

**Passenger Service – (B) Ordinary Passenger**

Sr. No.	Services	Profit / (-) Loss (in ₹)	
		2013-14	2014-15
1	First Class	-418.63	-553.04
2	Sleeper Class	-3298.89	-4257.68
3	Second Class	-40419.88	-47247.73
4	<b>Total Ordinary</b>	-44137.40	-52058.45
5	<b>Total Passenger Service</b>	<b>-59002.93</b>	<b>-38115.41</b>

**Passenger Service – (C) Other Coaching**

Sr. No.	Services	Profit / (-) Loss (in ₹)	
		2013-14	2014-15
1	Parcel & Luggage	-6934.51	-7108.51
3	Catering Services	-5013.34	-1245.40
4	Total Coaching Services	-70950.78	-46469.32
5	Sundry	3696.40	5808.77
	<b>Grand Total</b>	<b>-67254.38</b>	<b>-40660.55</b>

**COACHING UNIT COST - PASSENGER SERVICE:**

Sr. No.	Particulars	Unit Cost (in ₹)	
		2013-14	2014-15
1	Line Haul -Running Cost Per VKM.	17.30	15.54
2	Line Haul -Running Cost Per 1000 GTKMS	606.87	554.01
3	Terminal -Booking Cost Per Passenger Originating	0.97	1.14
4	Terminal -Ticket Checking Cost Per Passenger Carried	3.75	4.31
5	Terminal -Enquiry & Reservation Cost Per Passenger Carried	0.45	0.51
6	Terminal - Spl. Services Cost Per Pass. Carried	0.94	1.07
7	Terminal - Misc. Services Cost Per Passenger Carried	5.27	13.84
8	Total Terminal Cost Per Passenger Carried	10.90	20.27
9	Total Overall Passenger Service Cost Per Vehicle Kilometre	19.28	19.06
10	Total Overall Cost Per Passenger Carried	106.08	109.76

**PARCEL, LUGGAGE & POSTAL SERVICE:**

Sr. No.	Particulars	Unit Cost (in ₹)	
		2013-14	2014-15
1	Line Haul - Running Cost Per Quintal.	22.01	19.84
2	Line Haul - Running Cost Per 1000 GTKMS.	772.45	707.49
3	Terminal Cost Per VKM.	11.45	14.00
4	Total Parcel Luggage & Postal Cost Per VKM.	33.46	33.85

**CATERING SERVICE:**

Sr. No.	Particulars	Unit Cost (in ₹)	
		2013-14	2014-15
1	Line Haul - Running Cost Per Dining Car Kms.	11.21	8.83
2	Terminal Cost Per Passenger Carried	1.34	0.22
3	Total Catering Service Cost Per VKM	34.74	12.81
4	Total Catering Service Cost Per Passenger Carried	1.98	0.72



**OVERALL COST OF COACHING SERVICE:**

Sr. No.	Particulars	Unit Cost (in ₹)	
		2013-14	2014-15
1	Total Overall Cost of Coaching Service Per Vehicle Kilometre	19.75	19.31
2	Total Line Haul Cost Per Passenger Km.	0.37	0.34
3	Total Terminal Cost Per Passenger Originating	21.53	41.99
4	Total Overall (Running & Terminal) Cost Per Passenger/Km.	0.41	0.42

**GOODS UNIT COST**

Sr. No.	Particulars	Unit Cost (in ₹)	
		2013-14	2014-15
1	Cost of Documentation Per Invoice	283.40	366.06
2	Cost of Other Terminal Services Per Tonne (Full Loads)	39.15	39.21
3	Cost of Other Terminal Services Per Wagon (Full Loads)	1285.11	1375.18
4	Cost of Marshalling Per Wagon Per Yard Handled	3.37	3.52
5	Cost of Wagon Maintenance Per Wagon Day	777.25	855.47
6	Cost of Line Haul-Other Transportation (Exp. Incl. Train Passing Staff Per Train Kms)	101.45	113.41
7	Cost of Line Haul-Other Transportation (Exp. Incl. Train Passing Staff Per 1000 GTKM)	31.82	35.93
8	Cost of Line Haul-Track & Signalling Per Train Kms	148.81	149.67
9	Cost of Line Haul-Track & Signalling Per 1000 GTKM	46.67	47.42
10	Percentage of General Overhead Charges To Total Expenses	30.08	34.31
11	Percentage of Central Charges To Total Expenses (Incl. Overhead Charges)	0.35	0.30

**COST OF LINE HAUL (per 1000 GTKMs)**

Sr. No.	Particulars	Unit Cost (in ₹)	
		2013-14	2014-15
1	Cost of Line Haul Per 1000 GTKMs Coaching (Diesel)	408.33	372.59
2	Cost of Line Haul Per 1000 GTKMs Coaching (Electric)	122.07	59.73
3	Cost of Line Haul Per 1000 GTKMs Goods (Diesel)	268.59	260.74
4	Cost of Line Haul Per 1000 GTKMs Goods (Electric)	95.35	104.22

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**ANNEXURE- I**

**DIVISION WISE, SECTION WISE WITH SERVICE WISE ANNUAL GMT ON WCR FOR THE YEAR 2014-15**

Sr. No.	Section	Dir	Classification of Route	Divn	Route Kms	GTKMs including Weight of Engines				GTKM per route Km per Day	Annual GMT
						Passenger Service	Goods Service	Total GTKMs	Million GTKM		
1	2	3	4	5	6	7	8	9	10	11	12
1	KNW - ET	DN	"B" Route	BPL	183.42	2,56,11,01,015	1,47,16,54,275	4,03,27,55,290	4,033	60,237	21.99
2	ET - KNW	UP	"B" Route	BPL	183.42	2,53,14,63,523	2,49,04,79,166	5,02,19,42,690	5,022	75,012	27.38
3	ET - BPL	DN	"A" Route	BPL	96.75	1,87,15,12,574	2,30,67,09,525	4,17,82,22,099	4,178	1,18,317	43.19
4	BPL - ET	UP	"A" Route	BPL	91.65	1,83,86,01,995	2,43,69,44,701	4,27,55,46,696	4,276	1,27,810	46.65
5	BPL - BIN	DN	"A" Route	BPL	138.37	2,72,23,51,960	3,77,51,19,758	6,49,74,71,718	6,497	1,28,650	46.96
6	BIN - BPL	UP	"A" Route	BPL	138.37	2,70,83,53,444	4,05,75,95,637	6,76,59,49,081	6,766	1,33,966	48.90
7	BIN - RTA	S/L	"D" Route	BPL	138.71	57,43,54,625	2,46,53,40,402	3,03,96,95,028	3,040	60,038	21.91
8	RTA - BIN	S/L	"D" Route	BPL	138.71	57,54,26,010	1,54,59,33,325	2,12,13,59,334	2,121	41,900	15.29
9	RTA - MKC	S/L	"E" Route	BPL	193.65	46,27,44,589	5,47,37,385	61,74,81,974	617	8,736	3.19
10	MKC - RTA	S/L	"E" Route	BPL	193.65	47,19,88,609	21,08,12,562	68,28,01,171	683	9,660	3.53
11	GUN - GWL	S/L	"E" Route	BPL	227.05	43,94,56,963	10,41,31,115	54,35,88,078	544	6,559	2.39
12	GWL - GUN	S/L	"E" Route	BPL	227.05	44,46,88,741	9,62,38,639	54,09,27,381	541	6,527	2.38
			Total BPL division		1015.46	17,20,20,44,049	21,11,56,96,490	38,31,77,40,539	38,318	1,03,382	37.73
13	ET - JBP	DN	"B" Route	JBP	245.16	4,00,44,89,462	1,04,47,91,734	5,04,92,81,196	5,049	56,427	20.60
14	JBP - ET	UP	"B" Route	JBP	245.16	3,99,99,41,178	1,27,60,29,232	5,27,59,70,410	5,276	58,960	21.52
15	JBP - KTE	DN	"B" Route	JBP	90.79	1,65,01,99,299	23,27,54,696	1,88,29,53,994	1,883	56,821	20.74
16	KTE - JBP	UP	"B" Route	JBP	90.79	1,64,89,19,692	38,03,06,729	2,02,92,26,421	2,029	61,235	22.35
17	KTE - STA	DN	"B" Route	JBP	98.21	1,66,84,24,725	1,77,07,26,758	3,43,91,51,484	3,439	95,941	35.02
18	STA - KTE	UP	"B" Route	JBP	98.21	1,66,67,00,217	89,90,42,795	2,56,57,43,012	2,566	71,576	26.13
19	STA - MKP	DN	"B" Route	JBP	77.45	1,19,11,01,612	1,68,55,65,000	2,87,66,66,612	2,877	1,01,760	37.14
20	MKP - STA	UP	"B" Route	JBP	77.45	1,18,97,46,641	61,20,37,191	1,80,17,83,832	1,802	63,737	23.26
21	STA - REW	S/L	"E" Route	JBP	48.55	12,37,24,515	45,68,30,845	58,05,55,360	581	32,761	11.96
22	REW - STA	S/L	"E" Route	JBP	48.55	12,37,24,515	41,95,87,122	54,33,11,637	543	30,660	11.19

Sr. No.	Section	Dir	Classification of Route	Divn	Route Kms	GTKMs including Weight of Engines				GTKM per route Km per Day	Annual GMT
						Passenger Service	Goods Service	Total GTKMs	Million GTKM		
1	2	3	4	5	6	7	8	9	10	11	12
23	BIN - KTE	DN	"D" Route	JBP	262.81	2,25,55,11,690	8,67,72,69,732	10,93,27,81,422	10,933	1,13,971	41.60
24	KTE - BIN	UP	"D" Route	JBP	262.81	2,34,13,76,325	13,44,47,93,326	15,78,61,69,650	15,786	1,64,567	60.07
25	JKE-KYCE	S/L	Unclassified	JBP	21.25	0	1,96,19,601	1,96,19,601	20	2,530	0.92
26	KYCE-JKE	S/L	Unclassified	JBP	21.25	0	3,16,09,124	3,16,09,124	32	4,075	1.49
27	KTE - SGRL	S/L	"E" Route	JBP	260.05	30,31,15,027	2,91,55,68,96	3,21,86,83,99	3,219	33,910	12.38
28	SGRL - KTE	S/L	"E" Route	JBP	260.05	30,27,12,656	2,89,98,34,13	3,20,25,46,78	3,203	33,740	12.32
			Total JBP division		1083.29	22,46,96,87,554	36,76,63,66,982	59,23,60,54,536	59,236	1,49,813	54.68
29	NAD - KTT	DN	"A" Route	KOTA	224.98	2,31,86,44,09	7,22,99,42,57	9,54,85,86,67	9,549	1,16,27	42.44
30	KTT - NAD	UP	"A" Route	KOTA	224.98	2,31,86,44,49	6,82,61,29,69	9,14,47,74,19	9,145	1,11,36	40.65
31	KTT - GGC	DN	"A" Route	KOTA	171.37	2,13,67,82,89	5,41,85,40,60	7,55,53,23,50	7,555	1,20,78	44.09
32	GGC - KTT	UP	"A" Route	KOTA	171.37	2,13,67,83,37	5,36,33,54,20	7,50,01,37,58	7,500	1,19,90	43.77
33	GGC - BXN	DN	"A" Route	KOTA	77.22	77,91,68,631	2,03,16,37,01	2,81,08,05,64	2,811	99,726	36.40
34	BXN - GGC	UP	"A" Route	KOTA	77.22	77,91,69,150	2,16,74,31,68	2,94,66,00,83	2,947	1,04,54	38.16
35	BXN - MTJ	DN	"A" Route	KOTA	75.41	59,24,25,337	1,98,40,16,41	2,57,64,41,75	2,576	93,605	34.17
36	MTJ - BXN	UP	"A" Route	KOTA	75.41	59,24,25,696	2,11,66,28,11	2,70,90,53,81	2,709	98,423	35.92
37	KTT - RTA	S/L	"D" Route	KOTA	164.26	43,20,90,134	2,89,99,04,86	3,33,19,94,99	3,332	55,575	20.28
38	RTA - KTT	S/L	"D" Route	KOTA	164.26	43,20,90,653	61,48,35,783	1,04,69,26,43	1,047	17,462	6.37
39	KTT - CNA	S/L	"D" Route	KOTA	158.25	34,58,71,607	21,43,38,000	56,02,09,607	560	9,699	3.54
40	CNA - KTT	S/L	"D" Route	KOTA	158.25	34,58,72,325	26,21,57,559	60,80,29,884	608	10,527	3.84
			Total KOTA division		896.32	13,20,99,68,396	37,12,89,16,528	50,33,88,84,924	50,339	1,53,868	56.16
			Total WCR		2995.07	52,88,16,99,999	95,01,09,80,000	1,47,89,26,79,9	1,47,893	1,35,284	49.38

## ANNEXURE-II

## DENSITY OF COACHING AND GOODS TRAFFIC SECTION WISE ON WEST CENTRAL RAILWAY FOR THE YEAR 2014-15

Sr. No.	Section	Route Kilometrage of the section		Single Line/ Double Line	Electrified/ Non- Electrified	Average Daily No. of Coaching Trains run on the section		Avg Daily No. of Vehicles in terms of 4Wh run on the section		Average Daily No. of Goods Trains run on the section		Avg Daily No. of Wagons (in 4wh) run on the section		NTKMs per route kilometre per day			Gross Tonne Kilometres (incl. Wt of engine) of Goods service per route km/day	
		Broad Gauge	UP			DN			UP	DN	UP	DN	UP	DN	UP	DN	UP&DN	UP
Bhopal Division																		
1	ET - KNW	183.42	183.42	Double	Electrified	28.23	28.47	1227	1241	10.83	7.26	913	302	20861	13067	33928	37200	21982
2	BPL - ET	91.65	96.75	Double	Electrified	42.52	40.72	1775	1713	25.00	19.37	1033	818	37759	38361	76120	72848	65320
3	BIN - BPL	138.37	138.37	Double	Electrified	40.51	41.86	1737	1742	24.94	21.42	1071	930	43159	44363	87522	80340	74747
4	RTA - BIN	138.71	138.71	Single	Electrified	12.14	12.16	357	357	13.33	12.04	559	604	10996	28619	39615	30534	48694
5	MKC - RTA	193.65	193.65	Single	Non-Elect	5.54	5.41	219	215	1.36	1.65	46	68	1949	738	2687	2983	2189
6	GWL - GUN	227.05	227.05	Single	Non-Elect	4.41	4.35	176	174	0.99	0.48	44	15	160	747	907	1161	1257
Jabalpur Division																		
7	JBP - ET	245.16	245.16	Double	Non-Elect	32.20	32.24	1439	1440	4.58	3.36	210	145	7666	6799	14465	14260	11676
8	KTE - JBP	90.79	90.79	Double	Non-Elect	36.13	36.16	1600	1601	3.66	2.06	173	91	6102	4017	10119	11476	7024
9	STA - KTE	98.21	98.21	Double	Non-Elect	32.59	32.62	1502	1503	10.94	13.25	559	583	9820	29402	39222	25080	49397
10	MKP - STA	77.45	77.45	Double	Non-Elect	29.11	29.14	1361	1362	14.30	15.85	733	621	3547	36967	40514	21650	59625
11	REW - STA	48.55	48.55	Single	Non-Elect	5.69	5.69	223	223	7.11	7.41	349	380	12784	13946	26730	23678	25779
12	KTE - BIN	262.81	262.81	Double	Electrified	15.42	15.09	805	774	31.98	33.63	1595	1974	86923	39814	126737	140158	90458
13	KYCE-JKE	21.25	21.25	Single	Non-Elect	0.00	0.00	0	0	1.05	1.09	53	61	2351	913	3264	4075	2530
14	SGRL - KTE	260.05	260.05	Single	Non-Elect	3.71	3.72	96	96	7.05	6.99	380	382	17942	18064	36006	30551	30717
Kota Division																		
15	KTT - NAD	224.98	224.98	Double	Electrified	23.66	23.66	914	1136	24.73	26.19	1103	1168	52540	55666	108206	83126	88044
16	GGC - KTT	171.37	171.37	Double	Electrified	28.13	28.13	1111	1111	25.55	25.79	1142	1151	54036	54726	108762	85745	86627
17	BXN - GGC	77.22	77.22	Double	Electrified	23.50	23.50	894	894	22.87	21.45	1020	957	48204	45985	94189	76899	72081
18	MTJ - BXN	75.41	75.41	Double	Electrified	18.63	18.63	694	694	22.87	21.45	1020	957	48204	45985	94189	76899	72081
19	RTA - KTT	164.26	164.26	Single	Electrified	7.16	7.16	230	230	3.07	14.42	137	645	6440	30455	36895	10255	48368
20	CNA - KTT	158.25	158.25	Single	Non-Elect	4.89	4.89	197	197	1.39	1.14	64	52	2751	2248	4999	4539	3711

**DENSITY OF COACHING AND GOODS TRAFFIC SECTION WISE ON WEST CENTRAL RAILWAY FOR THE YEAR 2014-15**

Sr. No.	Section	Route Kilometrage of the section		Single Line/ Double Line	Elect/ Non- Elect (NE)	Gross Tonne Kms (incl. Wt of eng) of Coaching per route Km/day		Gross Tonne Kms.(incl. Wt of eng.) of Coaching & Goods combined per route km/day		Net Tonne Kilometers (in 000s) Goods Service			Gross Tonne KMs including Weight of engine of Goods service (in 000s)		Gross Tonne KMs including Wt. of Engine of Coaching service (in 000s)	
Broad Gauge		UP	DN	UP	DN	UP	DN	UP	DN	UP	DN	UP&DN	UP	DN	UP	DN
Bhopal Division																
1	ET - KNW	183.42	183.42	Double	Elect	37812	38255	75012	60237	1396580	874794	2271374	2490479	1471654	2531464	2561101
2	BPL - ET	91.65	96.75	Double	Elect	54962	52997	127810	118317	1263125	1354664	2617789	2436945	2306710	1838602	1871513
3	BIN - BPL	138.37	138.37	Double	Elect	53625	53903	133965	128650	2179764	2240559	4420322	4057596	3775120	2708353	2722352
4	RTA - BIN	138.71	138.71	Single	Elect	11366	11344	41900	60038	556724	1448949	2005673	1545933	2465340	575426	574355
5	MKC - RTA	193.65	193.65	Single	NE	6678	6547	9661	8736	137759	52142	189901	210813	154737	471989	462745
6	GWL - GUN	227.05	227.05	Single	NE	5366	5303	6527	6560	13229	61911	75139	96239	104131	444689	439457
Jabalpur Division																
7	JBP - ET	245.16	245.16	Double	NE	44700	44751	58960	56427	685985	608360	1294344	1276029	1044792	3999941	4004489
8	KTE - JBP	90.79	90.79	Double	NE	49759	49797	61235	56821	202215	133111	335326	380307	232755	1648920	1650199
9	STA - KTE	98.21	98.21	Double	NE	46495	46543	71575	95940	352016	1053951	1405967	899043	1770727	1666700	1668425
10	MKP - STA	77.45	77.45	Double	NE	42086	42134	63736	101759	100265	1045018	1145283	612037	1685565	1189747	1191102
11	REW - STA	48.55	48.55	Single	NE	6982	6982	30660	32761	226541	247128	473669	419587	456831	123725	123725
12	KTE - BIN	262.81	262.81	Double	Elect	24408	23513	164566	113971	8338126	3819216	12157342	13444793	8677270	2341376	2255512
13	KYCE-JKE	21.25	21.25	Single	NE	0	0	4075	2530	18235	7082	25317	31609	19620	0	0
14	SGRL - KTE	260.05	260.05	Single	NE	3189	3193	33740	33910	1703005	1714584	3417589	2899834	2915569	302713	303115
Kota Division																
15	KTT - NAD	224.98	224.98	Double	Elect	28236	28236	111362	116280	4314429	4571147	8885575	6826130	7229943	2318644	2318644
16	GGC - KTT	171.37	171.37	Double	Elect	34161	34161	119906	120788	3379925	3423112	6803037	5363354	5418541	2136783	2136783
17	BXN - GGC	77.22	77.22	Double	Elect	27645	27645	104544	99726	1358655	1296114	2654769	2167432	2031637	779169	779169
18	MTJ - BXN	75.41	75.41	Double	Elect	21523	21523	98422	93604	1326809	1265734	2592542	2116628	1984016	592426	592425
19	RTA - KTT	164.26	164.26	Single	Elect	7207	7207	17462	55575	386134	1825931	2212064	614836	2899905	432091	432090
20	CNA - KTT	158.25	158.25	Single	NE	5988	5988	10527	9699	158928	129835	288763	262158	214338	345872	345872

