



Single piece side lower berth - first time in Indian Railway, introduced in upgraded Humsafar Express

Annual Report

2016-2017

MODERN COACH FACTORY

RAEBARELI



Annual Report
2016-17


आधुनिक रेल डिब्बा कारखाना, रायबरेली


MODERN COACH FACTORY, RAEBARELI



मैं 31 मार्च 2017 को समाप्त हुए वर्ष के लिए आधुनिक रेल डिब्बा कारखाना, रायबरेली के कार्य की रिपोर्ट अग्रेषित कर रहा हूँ।

I, forward herewith, the report on the working of Modern Coach Factory, Raebareli for the year ending 31st March, 2017.


(महेश कुमार गुप्ता)
महाप्रबंधक


(Mahesh Kumar Gupta)
General Manager

सचिव
रेलवे बोर्ड,
नई दिल्ली।

The Secretary,
Railway Board,
New Delhi.



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IMPORTANT STATISTICS

Important milestones:

- Foundation stone laid : Feb' 2007
- Commencement of land acquisition : Aug' 2007
- Preparatory construction work commenced : Feb' 2009
- Actual Construction of Factory started : May' 2010
- Commissioning of 33 KV Transmission Line : Jan' 2011
- Finishing & Furnishing shop work completed : April' 2011
- First Coach Furnished from shell supplied by RCF/KXH. : April' 2011
- Dedication of Factory to the Nation : Nov' 2012
- Foundation of Forged Wheel Plant in RCF/RBL : Oct' 2013
- Completion of Bogie shop : Feb' 2014
- Completion of Shell, Paint and Machine shops : Mar' 2014
- Completion of Administrative Building : Nov' 2014
- Commissioning of 132 KV MRS : Jan' 2015
- RCF, Raebareli Renamed (MCF), Raebareli : Dec' 2015

Achievements of Mechanical

- Furnishing of 1st coach : April' 2011
- Furnishing of 1st LWSCZAC(Chair Car) : June' 2012
- Furnishing of 1st LWFCZAC(Ex. Chair Car) : July' 2012
- Furnishing of 1st LWACCW coach : Nov' 2012
- First Shell Assembly : July' 2013
(Major sub assembly by RCF/KXH)
- Rolling out 100th coach : July' 2013
- Rolling out 200th coach : April' 2014
- Furnishing of 1st LWSCN coach : Sep' 2014
- First LHB Shell from (Raw Material Stage Onward) : Aug' 2014
- Complete Bogie Assembly : Dec' 2014
- First Bogie Manufacture : Feb' 2015
- 100th Shell, Manufactured : June' 2015

- 1st LSCN Shell, Manufactured : July' 2015
- 100 Bogie Manufactured : Dec' 2015
- 300th LWACCN Coach Furnished : 16 Jan' 2016
- Rolling out 500th coach : Feb' 2016
- 1st GS Shell Manufactured : April 2016
- 800th Coach furnished : October 2016
- First Humsafar Rake of the Indian Railway (22 Coaches) : November 2016
- First Rake of Antyodaya Coaches dispatched : April 2017
- First Power Car shell manufactured : 11th May 2017
- 1000th Shell manufactured : 20th May 2017
- 1st Power Car turned out from MCF : 25th Sept, 2017



General Administration



The MCF Team



Shri Mahesh Kumar Gupta
General Manager



Sh. D.K. Agarwal
CME



Sh. Harsh Kumar
CAO



Sh. A.K. Srivastava
CEE



Sh. Jagdish Prasad
COS



Smt. Renu Sharma
CPO



Sh. Rajesh Agarwal
CE



Sh. Dawa Chhering
FA&CAO



Dr. Anil Gupta
CMO



Sh. Anoop Kumar
CDE



Sh. Ram Lal
CMM



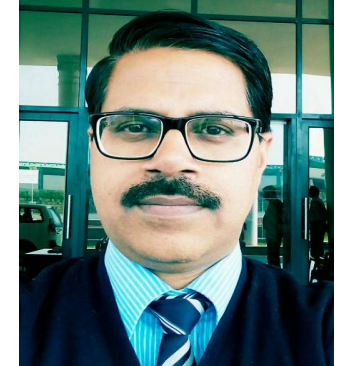
Sh. A.V.Kumar
CME/IT



Sh. P.K. Sanghi
CEDE



Sh. R.N.Toppo
CWE/Fur



Sh. H.K. Raghu
CPM



Dr. Lakshmi Raman
CPLE



Sh. R.N. Meena
CMM/P



Sh. S.K. Rawat
CPE



Sh. B.L. Meena
FA& CAOP



Sh. B. V. Rao
Sr. SC



Sh. R.P. Sharma
Secy to GM

PUBLIC RELATIONS & PUBLICITY

1.1 CELEBRATIONS (DIVAS):-

1.2 B.R. Ambedkar

125th Birth Anniversary of Bharat Ratna Dr. B.R. Ambedkar, celebrated on 15.04.2016. On this occasion speakers paid tribute to Dr. Bhim Rao Ambedkar remembering his contribution to the society and the nation.



1.3 Railway Week Award

61st Railway week was celebrated on 25.04.2016 at Saraswati Auditorium, MCF, Raebareli. Shri Alok Dave, General Manager, MCF/RBL was the Chief Guest on the occasion. He presented awards to 63 employee and officers, besides of group awards to employee for their outstanding services in their respective fields. The function concluded with a colourful cultural programme.



1.3 Rail Humsafar Saptah

“Rail Humsafar Saptah” was celebrated from 26th May 2016 to 1st June 2016 with intensive cleanliness drive at work place.



1.4 Independence Day

70th Independence Day was celebrated on 15th August 2016 in a befitting manner. National Flag was hoisted by Sri. M. K. Gupta, GM/MCF/RBL and parade was displayed in front of Administrative Block. Cultural Programme was organised in TTC Auditorium.



1.5 Hindi Divas

Vimochan of second edition of Magazine “Pratibimb” on Hindi Divas by Sh. M.K. Gupta, GM/MCF/RBL on 14.09.2016 at MCF/RBL. Also a meeting was conducted to promote Hindi in day to day work.



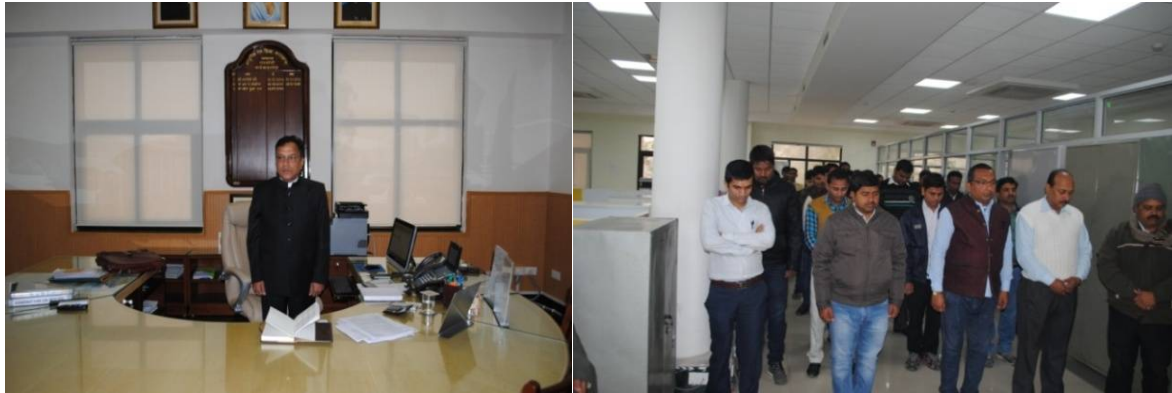
1.6 Republic Day

Republic Day was celebrated on 26.01.2017 in MCF/RBL campus with full enthusiasm. Shri M.K.Gupta GM/MCF/RBL inspected the parade and took the salute.



1.7 Shaheed Divas

Shaheed Divas was observed on 30.01.2017 in MCF/RBL



2.0 PRADARSHANI:-

2.1 Essay Writing Competition

Essay Writing & Poster Making Competition on Swachhha Bharat Mission organised in Kendriya Vidyalaya MCF/RBL on 07.07.2016



2.2 Nav Varsh Mela

Nav Varsh Mela of MCF/RBL inaugurated by Shri M.K. Gupta, GM/MCF/RBL in Supervisor's Club on 18.01.2017



3.0 SEMINAR:-

3.1 Press Conference on World Environment Day

“World Environment Day” was celebrated by MCF/RBL on 06.06.2016 . On this occasion more than 600 trees of different kinds were planted in Railways Hospital premises and township area of MCF/RBL. Also a press conference was conducted by Sh. D.K.Agarwal, CME/MCF/RBL.



3.2 Rail Vikas Presentation 05.10.2016

A Workshop Cum Brain Storming session was organised in TTC Auditorium in which objectives and timelines of Rail Vikas Shivir were explained to the staff on 05th October 2016 with staff strength of 2200, MCF gave 1315 EOIs (290 on website + 1025 on whatsapp). A meeting with departmental heads was held on 18.10.2016 and 36 ideas were submitted, 16 patented by Railway Board and finally 5 patents have been selected for presentation in Rail Vikas Shivir during 18th November 2016 to 20th November 2016.



3.3 Vigilance Awareness Week 31.10.16 to 05.11.16

Vigilance Awareness Week was observed at MCF/RBL from 31.10.2016 to 05.11.2016 as per the directives of Railway Board. The main theme of this year's Vigilance Awareness Week was public participation in promoting integrity and eradicating corruption. During this week various programmes like pledge taking ceremony, Seminar on Vigilance Awareness, Quiz competition, Vigilance Awareness Campaign were organised in MCF/RBL.



4.0 VISITS:-

4.1 Sh. A K Harit, GM/ DLW 27.04.2016

Shri A.K.Harit, GM/DLW visited MCF/RBL on 27.04.2016



4.2 Additional Member (RS)/Rly Bd 22.04.2016

Shri Umesh Singh, Additional Member (RS) Visited MCF/RBL on 22.04.2016



4.3 EDPG/MR AND EDME COACHING/Rly Bd 14.10.2016

Shri Anant Swarup EDPG/MR and Shri Shailendra Singh EDME(Coaching)/Railway Board visited MCF/RBL on 14.10.16.



4.4 Finance Commissioner (Railways)/Rly Bd on 16.02.2017

Shri Shahzad Shah, Financial Commissioner (Railways)& Ex-officio Secretary to the Government of India visited MCF/RBL on 16.02.2017



4.5 Member Rolling Stock/Rly Bd on 06.02.2017

Shri Ravindra Gupta, Member, Rolling Stock/Railway Board & Ex-officio Secretary to the Government of India visited MCF/RBL on 06.02.2017



4.6 Member Staff /Rly Bd on 04.10.2016

Shri Pradeep Kumar, Member Staff/Railway Board Visited MCF/RBL on 04.10.2016



5.0 PRESS RELEASE

Total 09 Nos of Press Release have been issued to various News Papers about the activities took place in MCF/RBL from dt. 01.04.2016 to 31.03.2017.



Mechanical Department

Project Overview and History

Modern Coach Factory, Raebareli has being set up at a cost of about Rs. 3192 Cr. for producing state of the art, stainless steel coaches (LHB type) with annual capacity of 1000 coaches. This factory covers an area of 540 Ha land, which includes a modern, eco-friendly township with need based social infrastructure for providing limited residential accommodation to employees.

Important milestones:

- Foundation stone laid : Feb' 2007
- Finishing & Furnishing shop work completed : April' 2011
- Dedication of factory to the Nation : Nov' 2012
- Assembly of First LHB coach shell by RCF/RBL : July' 2013
- Completion of Bogie shop : Feb' 2014
- Completion of Shell, Paint and Machine shops : Mar' 2014
- Manufacture of first prototype fabricated Fiat bogie : Aug' 2014
- Manufacture of first LHB coach shell by RCF/RBL : Aug' 2014
- Manufacture of first Fiat bogie : Dec' 2014
- RCF, Raebareli Renamed (MCF), Raebareli : Dec' 2015
- Formed Recognised Technical Training centre : May' 2016
- IMS Certification : Oct, 2016.

Achievement of Mechanical

- Furnishing of 1st coach : April' 2011
- Furnishing of 1st LWSCZAC(Chair Car) : June' 2012
- Furnishing of 1st LWFCZAC(Ex. Chair Car) : July' 2012
- Furnishing of 1st LWACCW coach : Nov' 2012
- First Shell Assembly : July' 2013
(Major sub assembly by RCF/KXH)
- Rolling out 100th coach : July' 2013

- Rolling out 200th coach : April' 2014
- Furnishing of 1st LWSCN coach : Sep' 2014
- First LHB Shell from (Raw Material Stage Onward) : Aug' 2014
- Complete Bogie Assembly : Dec' 2014
- First Bogie Manufacture : Feb' 2015
- 100th Shell, Manufactured : June' 2015
- 1st LSCN Shell, Manufactured : July' 2015
- 100 Bogie Manufactured : Dec' 2015
- 300th LWACCN Coach Furnished : Jan' 2016
- Rolling out 500th coach : Feb' 2016
- 1st GS Shell Manufactured : April' 2016
- 1st Rake of Humsafar coaches despatched : Nov' 2016

1.0 Exponential growth in production.

YEAR	BOGIE ASSEMBLED AT MCF	SHELLS MANUFACTURED AT MCF/ RBL	OUTTURN
2011-2012	0	0	18
2012-2013	0	0	70
2013-2014	0	0	130
2014-2015	9	45	140
2015-2016	251	264	285
2016-2017	631	605	576

2.0 Design and development:

2.1 Humsafar Express coaches:



Features of Humsafar Express coaches:

- Improved aesthetics: Exterior colour scheme presenting futuristic look with vinyl sheets with anti graffiti feature.
- Improved aesthetics: Interior colour scheme with Gel coated granular FRP moulded panel in side wall and roof with anti graffiti feature.
- Improved aesthetics: Gel coated FRP lavatory modules with anti graffiti feature.
- GPS based passenger information display system: LED panels above both compartments doors.
- Passenger announcement system.
- Fire and Smoke detection and suppression system.
- CCTV System with display monitor.
- Integrated Braille display.
- Increased Mobile charging points; USB /charging points for each berth.
- Fire retardant curtains on windows & aisle. Improved Curtain pattern (Approved by Rly. Board).
- Automatic vending machine.
- Cleanable Vinyl flooring.
- Better upper berth climbing arrangement.
- Lower side berth with comfortable single piece sliding top.
- Improved toilets: Two level floors, Urinal, Baby nappy changing seat, Touch less fittings.
- Automatic odour control dispensers.

- Reading light for every berth.
- Dustbin in every cabin.

Humsafar Express coaches turn out:

- First Rake dispatched on - 12th November 2016.
- Second Rake dispatched on - 24th December 2016.
- Third Rake dispatched on - 31st January 2017.
- Fourth Rake dispatched on - 26th February 2017.

2.2 Antyodaya Express coaches:



Features of Antyodaya Express coaches:

- Cushioned luggage racks which can serve as seat during rush.
- Additional hand hold in doorway area.
- J-hooks near longitudinal luggage racks.
- Vestibuled ends for inter coach movement.
- Water Purifier- Potable water similar to Aquaguard type water filtration system.
- Enhanced number of Mobile charging points.
- Bio-toilets.
- Fire extinguishers with anti-theft arrangement.
- More pleasing colour scheme for interior and exteriors with anti-graffiti measures.
- Sidewall & Roof panels : FRP Gel coated Anti graffiti
- Honey comb sandwiched pre-panelled partition frame with FRP sheets on both sides with steel inserts, Gel coated, anti-graffiti.
- Modular toilet: FRP lavatory module, Gel coated Anti graffiti coating
- Bolted Pillar assembly like LWACCN coaches

2.3 Antyodaya Express coaches turn out:

- First Rake dispatched on - 11.04.2017.

2.4 AC 2Tier in AC 3Tier shell:



Design developed for LHB AC-2T coach using of LHB AC-3T Roof profile. Drawings issued to shop for manufacturing. This development resulting 260mm more headroom for upper berths. First Shell manufactured at MCF/RBL and one prototype cabin has been furnished.

2.5 Reduction of disbursal factor with M/s 3M:

Trials for reduction in disbursal factor in AC coaches have been done jointly with M/s 3M India in LWACCN coach no. 16132/C ER turned out on 19.11.2016 using -

- i. **Solar Heat Reflective Roof Coating** “RG 700”
- ii. **Solar Heat Reduction Window Film:** “3M crystalline window film CR70”
- iii. **Thermal Insulation** “Aerofom XLPE” inside of the coaches at roof, side walls and under frame

2.6 Shell components with CRF in full length sections:

Design developed for LHB components on CRF, material is under procurement-

- Sole bar
- Carline
- Trough floor parts
- Roof sheeting
- Roof flange

2.7 Painting (Supply & Apply):

- 1000 coaches painting on supply and application on WTC has been introduced.

2.8 Panelling/Ceiling/ Partition:

- GFRE roof panel has been developed, will be used instead of NFTC sheets.
- DGFRP wall panel has been developed, will be used instead of LP sheets.

2.9 Seats & Berths:

- Single piece side lower berth has been introduced in 5th Humsafar train.

2.10 Toilets:

- Design for 100% switch over to Bio toilets.
- Introduction of modular toilets in non AC coaches (Antyodaya train).
- Introduction of dust bins in the toilets of non AC coaches.

2.11 Other Designs:

- Provision of modified SS Luggage rack cum magazine bag, bottle holder & coat hook for LWACCN and LWACCW coaches.
- Introduction of Water Purification System in non AC coaches (Antyodaya train).
- Design for Hydraulic hinge (Hinge cum door closer) for double acting swing door in LHB AC coaches issued.

2.12 LS5 Bogie with Air spring:

- Design developed for manufacturing of LS5 bogie with air springs.
- Integrated module of FIBA device, its indicator with Reservoir has been introduced.

3.0 Furnishing shop

3.1 Increase in out-turn: During the year 2016-17 Furnishing shop furnished 576 LHB coaches against 285 coaches furnished in the year 2015-16 which is more than double increase in the out-turn. The details of out-turn is as under-

Type of coaches	No. of coaches furnished during 2015-16	No. of coaches furnished during 2016-17	Total increase in %age.
LWACCN	170	94	
LWACCN(Humsafar)	-	101	
LWACCW	66	20	
LWSCN	49	267	
LS	-	67	
LWS (Antodaya)	-	27	
Total	285	576	

3.2 Rolling out 1000th coach: MCF turned out L3T-537 coach of 3rd Humsafar Rake as 1000th coach of MCF production on 31.01.2017.

3.3 Coaches furnished for Humsafar and Antodaya Rakes: During the year MCF has furnished new types of AC coaches for Humsafar Rakes and Non-AC coaches for Antodaya Rakes with world class superior quality of interior furnishing and extended amenities and new colour scheme with cast vinyl wrapping.

3.4 Innovations carried out (general): The following innovations in general were carried out in furnishing shop during the year-

- i) **Modification in Air Brake Train Piping system** done by increasing the height of BP/FP SS pipes (similar to conventional coaches) to minimise failure of BP/FP cut

off angle cocks and ferule joints while in running and cattle run. With this modification 2 SS FP/BP pipes (28mm) and its fittings got deleted from the air brake system.

- ii) **Profile Cutting of Aluminium Chequered Sheet:** Template developed for cutting of profile of Chequered sheet for doorway in AC coaches from the rectangle raw material sheet. This helped in reducing 25% wastages of raw material per coach, resulting in saving of 33% cost of Aluminium Chequered sheet per coach.
- iii) **Opening of Body side doors at 90 degree** by shifting of attachment wall brackets towards lavatory modules side.
- iv) **Modification of Conductor berth** by increasing length of catch arrangement for ensuring proper movement of berth.
- v) **Use of 3M beading of VHB tape:** Aesthetical look inside the coach has been improved by providing 3M beading of VHB tape to cover unwanted gaps between roof panel and partition Frame.
- vi) **Brail script** provided inside the coach to facilitate person with disability.
- vii) **Both side open-able compartment doors.** Compartment doors with both side open-able automatic doors closing arrangement were fitted in coaches of 4th Humsafar Rake.

3.5 Innovations carried out in Humsafar coaches: The following modifications were carried out in 5th Humsafar Rakes coaches in furnishing shop during the year-

- i) **Additional sliding lower longitudinal berths** on berth cum back rest to improve comfort for pleasant journey while using it in night for sleeping purpose.
- ii) **Modified ladders and additional handle** for ease of passengers to climb up on upper berths.
- iii) **Baby Nappy change seat** in lavatories 2 & 4 for changing nappy of child.
- iv) **Separate urinal pot** in lavatories 1&3 to improve upon hygienic facilities in Humsafar coaches.

4.0 Bogie Shop

4.1 Section wise outrun of Bogie Shop in FY 2016-17

Section	Under Water Plasma	Edge Milling Machine	Press Brake 700 Ton	Bogie Fabrication Line	Bogie Machining Centre	Bogie Frame Machining Centre	Bogie Assembly	Wheel Shop
Bogie Frame	324	145	192	137	-	272.5	-	-
Bolster	361	346	272	303	346.5	-	-	-
Wheel Set	-	-	-	-	-	-	-	626.5
Bogie Assembly	-	-	-	-	-	-	631	-

All position in C/Sets

4.2 Coach type wise outturn of Bogie Assembly-

LWACCN	LWACCW	LWSCN	LS-5	Total
251	24	342	50	631

4.3 Innovation throughout the Year to achieve the production target-

- 1 Indigenously manufactured wheel stand & metal chip bin for Wheel Shop.
- 2 Installation of rotating fixture for bending of side frame upper web & lower web.
- 3 Installation of rotating fixture for bending of upper web of LS-5 bogie.
- 4 Modification in the existing programme and fixture arrangement for machining of LS-5 Bogie Component such as bolster lower web, Drg. No.LW04133, Vertical Damper support LH & RH (LW 04144 & LW 04145) at CNC Edge Milling Machine.
- 5 Traction lever fixture was modified to achieve correct dimensions during fabrication of traction lever assembly.
- 6 Brake beam fixture was resorted to new position after proving out trial in order to accommodate oversize brake beam tubes.
- 7 Modification of brake beam fixture to achieve accurate dimension of bogie frame assembly & to avoid rectification of fabricated bogie frame by providing channels and stoppers.
- 8 Modification of existing pillars (received from shell shop) to prepare bogie frame touch up station for full welding of LS-5 as well as normal fiat bogie bolster. As a result, the productivity of the Bogie Frame has proportionately increased i.e. almost doubled.
- 9 Jigs and fixture for hand brake support and stiffeners has been developed to successfully turn out first power car bogie frame.
- 10 Provision of safety channel on the power supply bar of Automatic Handling device.
- 11 Modification of existing tacking fixture in order to fabricate LS-5 as well as normal fiat bogie side frame on the same tacking fixture.
- 12 Development of 03 Jigs i.e LH and RH vertical damper bracket and one yaw damper bracket assembly jig for LS-5 type bogie as a result of complete fabrication of first LS-5 type bogie frame and bogie bolster was made possible.
- 13 Development of manual welding fixture for full welding of tack welded stage 2 bolster.
- 14 Centre pivot locator for LS-5 was manufactured in-house.
- 15 Modification of existing fixture & programme for machining of LS-5 Bogie Frame & Bolster on BFMC & BMC.
- 16 An internal arrangement to use the robotic welding wire, which was not being used and getting expired as it gets expired in one year, was done .
- 17 Provision of fume extractor and welding curtains in order to protect the welders and bystanders/nearby people from harmful fumes and ultraviolet rays respectively.
- 18 A system of performance evaluation for welders has been devised to quantify the work done by the welders on the bogie fabrication line in consultation with all the deployed welders which has resulted into the increased productivity of the bogie fabrication line.
- 19 Reverse Osmosis Water Treatment Plant was installed in the Bogie Shop to facilitate improved drinking water for the staff.
- 20 Material required for fabrication work was chased efficiently and in house production of some sub assembly items, which were found critical, was done.

4.4 Machines Installed in Bogie Shop

S. N	DISCRIPTION	Qty.	Shop	Commissioning & proving out date	Warranty completion date	Availability in %	Remark
1	Hydraulic press 50T	1	Bogie Shop	17.09.15	<u>16.09.17</u>	99.35	
2	Bogie load testing machine M/s hydropack,Belgaum	2	Bogie Shop	IRCON challan no. 323-325 & 145 dtd 10.02.14	<u>09.02.16</u>	98.25	
3	CNC Oxy Acetylene (Bogie M/s pro-Arc welding and cutting, pune)	1	Bogie Shop	Joint note- 14.02.14	<u>13.02.16</u>	90.38	
4	CNC UNDER WATER PLASMA profile cutting machine with bevel cutting head (Bogie M/s Soitab, italy)	2	Bogie Shop	Joint check- 28.03.14 16.04.14 (F)	<u>15.04.16</u>	94.03	
5	Plate Straightening Machine (bogie M/s Godrej'Mumbai	1	Bogie Shop	Joint Note- 29.01.14 challnan no. 140 to 142 dtd 29.01.14	<u>28.01.16</u>	83.04	
6	CNC Edge Milling Machine (bogie, M/s Swastik)	1	Bogie Shop	21.07.14	<u>20.07.16</u>	71.92	
7	Bolster Machine centre I & II (M/s Tos Kurim, czech Republic M/s Swastik)	2	Bogie Shop	19.12.14 (1st)08.01.15(2nd)	<u>18.12.16(1st)</u> <u>7.01.17(2nd)</u>	87.22(I) 90.17 (II)	
8	5- axis CNC press barke 700T (M/s , Baykal, turkey),M /s machine tool (I) Ltd	1	Bogie Shop	26.05.14	<u>25.05.16</u>	100	
9	Bogie frame and Bogie bolster Shot blasting and painting line (M/s Global Engineers Ltd. New Delhi	1	Bogie Shop	06.04.15	<u>05.04.17</u>	85.82	
10	Airless Short blasting machine for steel plates (M/s surface International Jodhpur, Bogie)	1	Bogie Shop	joint Note- 14.03.14- 02.05.14 (f)	<u>01.05.16</u>	99.38	
11	Induction heating machine (M/s unites Instrument, Thane, Bogie	1	Bogie Shop	21.06.14	<u>20.06.16</u>	99.79	
12	Bogie frame machine centre I & II (M/s SNK, JAPAN,	2	Bogie Shop	18.03.15	<u>17.03.17</u>	90.52 (I) 93.44 (II)	
13	CNC Bed milling machine (M/S Tos Kurim, CZ Republic, M/S Swastik,	1	Bogie Shop	19.12.14	<u>18.12.16</u>	71.46	
14	KUKA Bogie Fabrication Line	1	Bogie Shop	-----	----	-----	Not Commissioned yet

4.5 Wheel & axel assembly Line Supplier: - M/s Danobat Group, Spain

Installation: - Installation on 08.04.2015

Wheel & axel assembly Line Commissioning Date:-17.10.2015, PTC Date:-27.02.2017

4.5 Machine wise availability report from April-2016 to March-2017.

S. No.	Machine Name	Average Availability %
1	OP 10 (End Facing Machine)	79.69
2	OP 20 (CNC Axle turning Lathe)	89.79
3	OP 30 (CNC Grinding Machine)	77.17
4	OP 60 (Axle Washing & Drying Machine)	97.60
5	OP 70 (Axle Measuring machine)	96.90
6	OP 100 (VTL)	86.77
7	OP 200 (Hydraulic Press machine)	96.90
8	OP210 (Surface Portal Lathe)	89.09
9	OP 220 (Wheel balancing Machine)	97.60
10	OP 300 (wheel & Axle Line gantry)	88.13

5.0 Shell Shop

5.1 Improving work culture and environment for the FY 2016-17.

1. Spot welding programme of LGS roof on B&C spot welding machine modified by operators which has avoided the Rotation of LS roof after spot welding for correct direction of PP and NPP end on Shell assembly Jig.
2. Installation of New automated hydraulic shearing machine under processes.
3. Development of first ever LGS shell at MCF.
4. 100% DPT testing of Roof joint with Roof Bearer started to ensure leak free shower testing.
5. In order to minimise the undulation in side wall use of belts for lifting side wall skin started.
6. Dummy CBC designed and manufactured in house and fitted in 11 shells. This is to meet shunting requirement when CBC is not available.
7. Modification in WTCC of Antodaya coach first Rake successful done as per advice of MCF design, to accommodate modular toilet.
8. In 5th Humsafar rake of 2016-17 BRL holes for individual seats are done as desired by Electrical production.
9. Design of Tie Rod modification for better quality and avoids welding on tie rod on shell body.
10. First ever Composite shell (2T shell with 3T type Roof) produced.
11. LS middle door arrangement made 100% in house.
12. Third Shell Assembly Jig procured and installed in shell shop.
13. Second under frame jig installed in shell shop.
14. Development of Antodaya shells made 100% inhouse.

5.2 MONTHLY PRODUCTION POSITION OF SHELL SHOP FOR FY 2016-17

MONTH	SIDE WALL		ROOF	UNDER FRAME	SHELL ASSEMBLY
	SIS	B&C			
APRIL	26	0	22	22	27
MAY	25	0	25	25	37
JUNE	29	8	26	27	42
JULY	9	27	25	25	37
AUGUST	14	31	24	23	45
SEPTEMBER	25	23	22	24	46
OCTOBER	22	27	32	23	50
NOVEMBER	21	32	26	30	52
DECEMBER	32	27	14	21	61
JANUARY	42	32	22	18	74
FEBRUARY	40	29	15	22	66
MARCH	24	45	13	22	68
TOTAL	309	281	266	282	605

6.0 Quality

6.1 Furnishing Quality control:

No. Of Coaches inspected	Audit inspection	Bio Tank Testing	RSC Uploaded
591	453	591	591

6.2 Activities of furnishing quality control:

- Coaches furnished at furnishing & finishing shops are inspected at stages of Floor & PVC, Window & Ceiling, Partition & Paneling, Molding & Door, Plumbing, Lavatory and Seat & Berths with self inspection (SIP), quality control inspection (QCI), Cross examination (X-Point) and final inspection for ensuring complete quality of product.
- RSC (Rolling Stock Certificate) prepared and uploaded at MCF website for easy and early availability to concerned Railway.
- 04 Rakes of Humsafar (88 Coaches) inspected for quality of additional fitting.
- 01 rake of Antyodaya (22 Coaches) inspected.

6.3 Bogie Quality control

No. of Bogie frame and components measured on 3D-CMM	Audit inspected of Bogie components	Audit inspection of Bogie assembly load testing
876	91	108

6.4 Activities of Bogie Quality control:

- Bogie fabricated at Bogie assembly inspected thoroughly in accordance with SIP (self inspection) submitted by production.
- Screws are checked for proper Torque and Air brake fitting are also checked.
- Bogie final assembly is inspected for load testing.

6.5 Activities of Wheel Quality Control:

- Machining of Axle and Wheel and their fitment is observed at all stages of wheel & Axle line.
- QC has advised to adjust the roughness value of axle sitting area in grinding machine for better interference fitting. This resulted no use of emery paper for getting roughness, saving of time & man-hours along with improve work culture. Similarly in turret lathe machining operation also adjusted to improve the wheel bore roughness for better interference.

6.6 Shell Quality Control:

No. of coach Assemblies inspected	Audit inspection of Assembly shell components	Integrated SIS shell line components inspected	
288	266	Shell	05
		Roof	05
		Underframe	11
		Endwall	16
		Side wall	02
		TOTAL	39

6.7 Activities of Shell Quality Control:

- Integrated SIS shell line components measured for commissioning.
- All shell assembly are inspected according to SIP, quality control inspection (QCI), Cross examination (X-Point) and final inspection for ensuring complete quality of product.
- Audit inspection of Shop made and bought out items is carried out.

6.8 Activities of Coach Complaint and monitoring cell (CCMC)

Cases of failure reported by Railway	Mechanical	Electrical	Total
Cased received	23	15	38
Cases closed with finalization of warranty claim.	19	13	32

6.9 Activities of CCMC:

- Coach complaint portal at MCF site is checked daily and complaint if any received in portal is put-up for further action.
- Monitoring of warranty claim compliance accordingly

6.10 Other activities of Quality Control

Section	Approval of QAP	Approval of prototype
Shell	24	14
Bogie	11	09
Furnishing	07	06
TOTAL	42	29

6.11 RI and Material Testing

- M&C Lab has conducted testing of 600 consignments offered for inspection from stores.
- M&C Lab fully involved in stage wise inspection of painting of coaches and quality clearance w.r.t. Painting.
- MPI of axles in Wheel and Axle shop was conducted during machining of axles and Audit check of axles by UST on periodic basis.
- Installation and commissioning of 56 Lab equipments were done in M&C lab.
- Procurement of Handheld spectrometer was done and chemical analysis of Steel are carried out about 1200 samples and Optical Emission Spectrometer – Lab Model under procurement stage i.e. GT may be floated in August, 2017.
- Prove out inspection and parameter for weld quality of Under Frame and End Wall done for SIS Assembly Line.
- Inspection of Hums afar w.r.t Vinayl wrapping was done.
- D.P. test conducted in shell shop.

7.0 Planning

- 7.1 Planning is done by planning section according to target received from Railway Board for production of various types of coaches. After correction in MMIS on the basis of PSL and preparation of indents and material schedules and vetted by account department, material availability has been ensured through store department for the year 2016-17.
- 7.2 Stocking proposals have been made for stocking of non stock items which were purchased through non stock indents but are required regularly.
- 7.3 Stocking have been done for high value non-stock items used in Humasafar coach i.e. Fire suppression system for HM, CCTV camera, Modular toilet and FRP panels.
- 7.4 For controlling the no. of inventories, detail items for Underframe, Roof and Side Wall are planned in kit form for all type coaches.
- 7.5 Materials planning of Humsafar and Antyodaya rake on turnkey basis have been done.
- 7.6 Trial of LLDPE/Polymer material Bio digester retention tank with cage has been successfully done. Drawings under approval by RDSO. P O for 25 coach set have been placed on trial basis.
- 7.7 For weight reduction of coaches and increase life, NFTC bamboo jute composite floor board to size 10mm×905mm×3090mm. & 10mm×1220mm×3090mm used instead of 12 mm compreg plywood board.
- 7.8 Preparation of offline nesting programme of coach variants LWSCN, LGS, and LWLRRM on machines LCM, LCWM, Underwater Plasma Cutting Machine, Oxyacetylene, CNC Vertical Spindle Modular Machine.
- 7.9 Preparation of Spot Welding programme of Side wall and Roof of LGS coach variants at Robotic Spot Welding Machine.

8.0 Machinery & Plant

8.1 Availability of Key M&Ps

Description	2016-17
EOT Cranes	100%
Fork Lifter (FLT)	95.65%
Welding Plant	95.00%
Traversor	100%
Skin Tensioning Machine	100%
Shuttle Car	100%
Out Door EOT	100%
Critical Machines	More than 90%

8.2 Working with minimum manpower

Category of staff	2016-17
Mechanical Staff	114
Electrical staff	17

8.3 Spares & Consumables Planned and procured

Description	2016-17
Total Indent submitted	125
Total PO placed	121
Material received against PO	117

8.4 Availability of Fire Fighting Equipments (June' 2017)

S.N.	Equipment Name	Qty.	U/Maint	B_Date	R_Date	% Availability
1.	Multipurpose fire tender on Ashok Leland 1616.	1	NIL	-	-	100%
2.	WATER BOWSER, Make: Ashok Leland 2516.	1	NIL	-	-	100%
3.	WATER MIST fire Make: TATA407	1	NIL	-	-	100%
4.	TRAILER MOUNTED FIRE PUMP	1	NIL	-	-	100%
5.	Pump House-1, Jockey pump	1	NIL	-	-	100%
6.	Pump House-2, Jockey pump	1	NIL	-	-	100%
7.	Pump House-2, Main pump-1	1	NIL	-	-	100%
8.	Pump House-2, Diesel pump	1	NIL	-	-	100%
9.	Addressable Manual Call Points	142	NIL	-	-	100%
10.	Loop Powered Addressable Base Mounted Sounder	66	NIL	-	-	100%
11.	Optical Beams Smoke Detector	70	NIL	-	-	100%
12.	Hydrant Points	259	NIL	-	-	100%
13.	Fire Extinguishers	872	NIL	-	-	100%



Electrical

GENERAL

Electrical Power Supply at 132 KV is received at Main Receiving station (MRS) through a dedicated transmission lines running between MVVNL Grid Substation at bachharawa (about 8.5 km and Main receiving substation(MRS) at Modern Coach factory, Raebareli MRS, 132 KV with the help of two power Transformer of 1.5 MVA each (viz TR-I & TR-II) At any instance, only one of the feeder power supply and other acts as stand by.

Stepped down supply from Transformer is fed to 11 KV panel at MRS. 4 Nos. DG sets of 1010 KVA capacities are working at MRS as backup in case of supply failure /maintenance work of switch yard etc. at MRS.

11 KV supply is further distributed to 10Auxiliary Station and 10 (CSS) compact substation through

Ring main system. The substation are numbered From ASS.1 to 10 workshops and 4 nos. in colony)

At substation, it is further stepped – down to 415V through 750KVA, 11 KV/415 V transformers for

Feeding to various Shops, MCF Colony, Administration Building, service Building, Pumps etc, through LT Panels at Sub- Stations.

A. Power supply system of MCF/RBL consists of the following:

1. **132/11 KV MRS (Main Receiving Sub Station)** – 02X12.5 MVA Transformer
2. **33/11 KV Sub Station (ASS)** - 01X10 MVA Transformer
3. **Auxiliary Sub Station (ASS)** – 03X750 KVA -10 nos.
4. **Compact Sub Station (CSS)** – 01X750 KVA – 10 nos.
5. **Compact Sub Station (CSS)** – 01X1250 KVA – 02 nos. (for solar plant)
6. **Solar Power Plant** – 02 MW
7. **DG sets-**
 - a) 04X1010 KVA installed at 132/11 KV MRS
 - b) 01X380 KVA DG set for hospital at present placed at 33 KV sub-station
 - c) 01X125 KVA DG set at Lucknow rest house
 - d) 01X10 KVA DG set at MRS (spare)

Sanctioned Load-

- 3000 KVA ON 132/11 KV
- 1000 KVA ON 33/11 KV

Average unit consumption per month in year 2016-17 – 1153146 KWH

Power generation by solar plant during 2016-17 – 27.00 Lakh units

Miscellaneous Electrical Assets:

- Total no. of solar street lights with 75 Ah Bty (15 W LED) – 514 nos.
- Total no. of street lights (45/60W LED) – 2169 nos.
- Total no. of high masts (9.6 KW MH) – 64 nos.
- Total no. of induction lamp (200 W) – 2328 nos. (in factory area)
Total no. of day light pipes – 1400 nos. (in factory area)

Production & Planning

A. Planning-

1. Planning was done for electrical items according to target received from Railway Board for production of various types of coaches. After correction in MMIS on the basis of PSL and preparation of indents and material schedules and vetted by account department, material availability has been ensured through store department for the year 2016-17.
2. Stocking proposals have been made for stocking of non stock items which were purchased through non stock indents but are required regularly and converted 45 non stock hardware items into 4 stock items.
3. Compliance of Railway Board instructions for fitment of new items (**GPS base PIS Birth reading light and USB charging socket**) in Humsafar coaches has been ensured.

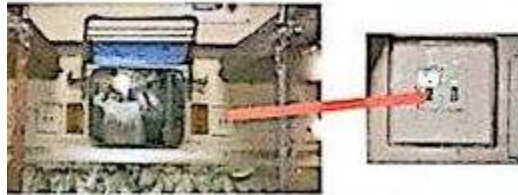
GPS based Public Information System



B. Innovations carried out-

1. **USB charging socket** and wiring scheme was designed and developed for introduction in 5th rake of Humsafar Coach for provision of charging point for each berth.

USB / charging points for each berth



2. **Wiring scheme and arrangement of Berth Reading Light** was designed and provided in 5th rake of Humsafar Coach.

Reading light for every berth



3. Power Supply arrangement for Coffee Vending Machine was designed and provided in all Humsafar Coaches.

C. Furnishing of Budget announced Rakes-

5 rakes of Humsafar coaches and 2 rakes of Antyodaya Coaches were furnished as per target.

D. Outsourcing of Loading of under frame electrical equipments in all AC coaches and non AC coaches was done successfully.

E. Increment in out-turn: During 2015-16 furnishing of LHB coaches more than doubled in comparison to out-turn of previous year 2014-15.

Type of coaches	No. of coaches furnished during 2015-16	No. of coaches furnished during 2016-17	%Increase
LWACCN	170	94	-45%
HUMSAFAR	0	101	+ 100%
LWACCW	66	20	- 70%
LWSCN	49	267	+ 445%
LS	0	67	+ 100%
LWS (ANTYODAYA)	0	27	+ 100%
Total	285	576	+ 102%



Project Department

History of project

Foundation stone laid	Feb'2007
Land acquired	Aug'2007- Aug'2009
Construction work commenced	May'2010
Commissioning of 33 KV line	Jan'2011
Finishing & Furnishing shops completed	Apr'2011
First LHB coach furnished (Shell & Bogie by RCF/KXH)	Apr'2011
Dedication of factory to the Nation	Nov'2012
First shell assembly (Major sub assembly by RCF/KXH)	July'2013
First bogie manufacture	Aug'2014
First LHB shell from raw material of stage onward	Aug'2014
Complete bogie assembly	Dec'2014

Annual Performance 2016-17

Modern Coach Factory, Raebareli is being set up at a cost of Rs. 3192.01 Cr, for producing state of art, latest design stainless steel LHB coaches with capacity of 1000 coaches per annum. Factory is being setup on turnkey contract awarded to M/s IRCON International. During the year 2016-17, following important works and millstone have been achieved by project department.

M&Ps Commissioned in 2016-17

S.No.	Name M&P	Cost
1	Wheel & Axle Line (M/s DANOBAT)	124.30 Cr.
2	CNC Shearing Centre(M/s Baykal, Turkey)	4.5 Cr.
3	Under Frame jig (Stage-I,II, & III & IV)	72.33 Lakhs
4	CNC Trainer Lathe for TTC	17.68 Lakhs
5	LPG Storage and Supply system	Rs2.85 Cr.
6	ASRS Furnishing Stores (All)	Rs 27.01 Cr.
	Total	159.56 Cr

Civil works (Township side) completed in 2016-17:

S.No.	Name of Work	Cost
1	Auditorium	8.98 Cr.
2	Indoor sports facilities	9.18 Cr.
3	External Sewage and water supply system	3.95 Cr.
4	Main Gate of Township	0.30 Cr
	Total	22.41 Cr.

Civil works (Factory side) completed in 2016-17:

S.No.	Name of Work	Cost
1	TTC + TTC work shop	16.87Cr.
2	Auction Hall, Scrap Yard, waste Disposal	8.75 Cr.
3	Locker cum office Building	6.10 Cr.
4	Office complex	6.07 Cr.
5	Product development centre	6.20 Cr.
6	Electronic lab	
7	Factory Gate	0.31 Cr.
8	XEN Building + Laboratory Complex	4.07 Cr.
9	Toilet Block 1,5 & 9 (All)	5.36 Cr.
10	STP (Factory + Township)	5.04 Cr.
	Total	58.77 Cr.



(Automated Wheel & Axle manufacturing line)

Shell Shop is having machines like Laser Cutting Machine, Laser Cutting & Welding Machine, CNC Press Brakes, CNC Hydraulic Press, Robotic Spot Welding Machine, skin tensioning machines which have already been commissioned. The full fledged production from the shell shop shall be done after commissioning of Automatic shell manufacturing line which consists of five independent lines namely Side wall line, Roof line, Under frame line, End wall line and Shell assembly line.

Side wall manufacturing line of Automated Shell manufacturing assembly line (SIS Line) has been commissioned during the year.



(Automated side wall manufacturing line)

Store Depots is planned with Automatic Storage and Retrieval System (ASRS) for efficient space utilisation. Total 04 Automatic Storage and Retrieval System (ASRS) were planned. 03 Nos ASRS have already been installed and commissioned during the 2015-16. Nos 01 Nos. Automatic Storage and Retrieval System (ASRS) were installed and commissioned during the year 2016-17.



Automatic Storage and Retrieval System (ASRS)

For quality recreation of employees of the Modern Coach Factory, work of Auditorium has been completed and opened during the year.



(Auditorium)

Fig. in Cr. Rs

	Civil	Mech	Elect.	S&T	IT	D&G	VAT/ Adv.	Total
Revised Estimate	1396	1232	283.5	19.7	49.24	211.5	-	3192
Expenditure by Mar'17	1189.3	900.8	232.9	19.2	26.0	159.6	64.6	2592.4
Balance Work	206.7	331.2	50.6	0.5	23.24	51.9		599.6

The Revised estimate was approved from Ministry of Railways in the March 2016.

Total Rs. 193.41 Cr. expenditure has been made during the year 2016-17 which is more than 100% of funds allotted during final modification.



STORE DEPARTMENT

Total Value of stores purchased during 2016-17

PROFORMA-I (Rs. IN Crores)

Sr. No.	Item	Value
A	Imported Direct	27.01
B	Imported Stores Purchased in India	14.30
C	Stores Purchased from PSUs	15.36
D	Khadi Purchase	0.23
E	Stores purchased from Cottage & SSI units	333.64
F	Other indigenous	530.91
	Total	921.45

Total Value of stores purchased during 2016-17

PROFORMA-II (Rs. IN Crores)

Sr. No.	Item	Value
A	Stores for operation/repair & maintenance	0
B	Stores for construction	0
C	Fuel	0
D	Components/Stores purchased for manufacture of complete rolling Stock and complete units of Rolling Stock.	921.45
	Total	921.45

Total Value of stores purchased during 2016-17

PROFORMA-III (Rs. IN crores)

Sr. No.	Item	Value
A	Through Department of Supply (DGS&D)	1.24
B	Through Railway Board	46.13
C	Direct Purchased made by Railway/PU	874.08
	Total	921.45

ANNEXURE-III

STATEMENT NO 39-A

Stores Transaction during the year 2016-17

(Rs. In Thousand)

Headings	Opening balance (at the beginning of the year 2016-17)	Receipts during the year 2016-17)	Issues during the year 2016-17)	Closing balance (at the end of the year 2016-17)
Stream loco parts and fittings	0	0	0	0
Diesel loco parts and fittings	0	0	0	0
Electric loco parts and fittings	0	0	0	0
Carriagel, wagon, EMU parts and fittings	706805	8912966	8570175	1049596
Electric stores	6437	63043	66549	2931
Signal and Tele-com stores	0	0	0	0
P.Way material, track, tools etc.	0	0	0	0
Engg. Stores covering bldg. Material etc	3046	4279	2449	4876
Abrasive tools,hardware etc,	18201	9405	7901	19705
Brushes, brushware etc.	294	468	132	629
India rubber, leather canvas etc.	9128	64749	64557	9320
Electordes & welding accessories	7095	26073	26272	6895
Paints,enamels & varnishes	620	3161	2497	1283
Crockery, cutlery & napery	64	54	66	51
Cloth,clothing & personal equipment.	3782	7747	7451	4078
Petroleum products other than fuel oil	1362	610	869	1102
Refractories, packing material etc.	87	25063	22997	2153
Ball & roller bearings	0	0	0	0
Genl. Stores covering acids, chemicals etc.	1833	29150	29569	1414
stationery forms etc.	2560	980	2178	1362
Metal ferrous	44187	47226	68455	22958
Metal non-ferrous	13	28	13	28
Fuel-coke, coal etc.	0	0	0	0
Fuel-oil	0	0	0	0
Timber	2382	16332	13858	4856
Scrap	5210	3198	2632	5760
Rolling Stock complete units 7 stores	0	0	0	0
Total	813106	9214532	8888620	1138997
Adjustments	0	0	0	0
Grand total as per App. Account	813106	9214532	8888620	1138997

Dy. FA&CAO/Stores

Dy. CMM/EL

Annexure-I														
Modern Coach Factory, Raebareli														
Statement No. 38-A														
VALUE OF STORES PURCHASED DURING 2016-17														
(Rs. in thousands)														
S N	Heading	Value of Stores Imported Direct				Value of Imported Stores Purchased in India				Value of Stores Manufactured in India or Indignep				G. Total
		Stock	Non- Stoc k	Consst n Work	Total	Stock	Non- Stoc k	Consst n Work	Total	Stock	Non- Stock	Consst n Work	Total	
1	Steam Loco parts and fitting	0	0	0	0	0	0	0	0	0	0	0	0	0
2	Diesel loco parts and fittings	0	0	0	0	0	0	0	0	0	0	0	0	0
3	Electirc loco parts and fittings	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Carriage,wagon, EMU parts and fittings	27019 2	0	0	27019 2	14304 1	0	0	14304 1	849973 3	0	0	849973 3	891296 6
5	Electrical Stores	0	0	0	0	0	0	0	0	63043	0	0	63043	63043
6	Signal and Tele-com. Stores	0	0	0	0	0	0	0	0	0	0	0	0	0
7	P.Way material, track, tools etc	0	0	0	0	0	0	0	0	0	0	0	0	0
8	Engg. Stores covering bldg. Material etc.	0	0	0	0	0	0	0	0	0	427 9	0	4279	4279
9	Abrrasive tools, hardware etc.	0	0	0	0	0	0	0	0	9405	0	0	9405	9405
10	Brushes, brushware etc.	0	0	0	0	0	0	0	0	468	0	0	468	468
11	Indian rubber, leather canvas etc	0	0	0	0	0	0	0	0	64749	0	0	64749	64749

12	Electrode & welding accessories	0	0	0	0	0	0	0	0	26073	0	0	26073	26073
13	Paints, enamels & varnishes	0	0	0	0	0	0	0	0	3161	0	0	3161	3161
14	Crockery, cutlery & napery	0	0	0	0	0	0	0	0	0	54	0	54	54
15	Cloth, clothing & personal equipment	0	0	0	0	0	0	0	0	7747	0	0	7747	7747
16	Petroleum products other than fuel oil	0	0	0	0	0	0	0	0	610	0	0	610	610
17	Refractories, packing material etc	0	0	0	0	0	0	0	0	25063	0	0	25063	25063
18	Ball & Rollar bearings	0	0	0	0	0	0	0	0	0	0	0	0	0
19	Genl. Stores covering acids chemicals etc	0	0	0	0	0	0	0	0	29150	0	0	29150	29150
20	Stationery forms etc.	0	0	0	0	0	0	0	0	980	0	0	980	980
21	Metal ferrous	0	0	0	0	0	0	0	0	47226	0	0	47226	47226
22	Metal non-ferrous	0	0	0	0	0	0	0	0	28	0	0	28	28
23	Fuel-cock, coil etc.	0	0	0	0	0	0	0	0	0	0	0	0	0
24	fuel-oil	0	0	0	0	0	0	0	0	0	0	0	0	0
25	Timber	0	0	0	0	0	0	0	0	16332	0	0	16332	16332
26	Scrap	0	0	0	0	0	0	0	0	3198	0	0	3198	3198
27	Rolling Stock complete units & stores	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	270192	0	0	270192	143041	0	0	143041	8796966	4333	0	8801299	9214532

							Annexure IV		
STATEMENT NO. 39 B									
Summary statement of Stores transactions during 2016-17									
							(Rs. In Crores)		
39(B)- Summary Statement of Stores transactions on Govt. Railway in 2016-17									
Opening balance at the beginning of the year.				Trans. Of Physical Stock		Closing balance at the end of the year			
Phy. Bal without adjustments (7160)	Adjustments (7100)	Balance under (7100 to 7150)	Total stores (7100 to 7160)	Receipts	Issues	Phy. Bal without adjustments (7160)	Adjustments (7100)	Balance under (7100 to 7150)	Total stores (7100 to 7160)
1	2	3	4	5	6	7	8	9	10
57.47	0.00089258	-	19.78	921.45	888.86	90.05	0.00089258	-	41.2
		37.69					48.85		
Dy. FA&CAO/Stores							Dy. CMM/EL		



Accounts

1.0 PROJECT

The project estimate was originally sanctioned under Capital 4200 (Raebareli – setting up of new Modern Coach Factory) at the cost of Rs.2556.84 crore which has been revised to Rs.3192.00 crore vide letter No.2016/M(W)/964/3 dated 21.05.2016.

The total expenditure under final heads for fixed assets and M&P is Rs. 2537.35 crore upto March, 2017. This includes expenditure incurred on project cost of MCF (Capital) 4200 and Machinery & Plant (Cap-4100).

The Closing balance of floating assets (Inventories Cap-7100, Cap-7200 and Cap-7300) is Rs.123.18 crore. The break-up of fixed and floating assets is as under:-

(Rs. in Crore)

Fixed Assets			Break up of Fixed Assets by important categories	
a)	Project Township	194.40	Fixed Assets	Amount
b)	W/s & Offices	2342.95	Preliminary Expenditure	4.98
	Total Fixed Assets (a+b)		Land	46.74
II.	Floating Asset	2537.35	Buildings and other structural Engg. Works including road & permanent way	1200.01
a	Stores Suspense	68.73	Machinery and Plant	1287.25
b	W/s Mfg. Suspense	54.41	Electrical Installation	
c	Misc. Adv. Cap.	0.04	General Charges	(-)1.63
	Total Floating Assets (a+b+c)	123.18	Total Fixed Assets	2537.35
	Total Assets (Fixed & Floating)	2660.53		

2.0 STATEMENT SHOWING DEPRECIATION RESERVE FUND ACCOUNT FOR AND TO END OF THE YEAR 2016-17.

		(Fig. In units of Rs.)	
S.No.	PARTICULARS	AMOUNT	
1	Opening balance	Nil	
2	Appropriation during the year 2016-17	Nil	
3	Interest during the year @ 5%	Nil	
4	Total (2+3)	Nil	
5	Expenditure on renewals & replacements during the year 2016-17	Nil	
6	Net Accretion to the fund during the year 2016-17 (4-5)	Nil	
7	Closing balance (Col. 1+6)	Nil	
	Details of Grant for 2016-17		
	Original Grant		
	Supplementary		
	Residual		
	Final Grant		

3.0 STATEMENT SHOWING PENSION FUND ACCOUNTY FOR AND TO END OF THE YEAR 2016-17

S.No.	PARTICULARS	AMOUNT
1	Opening balance	Nil
2	Appropriation to fund during the year 2016-17	2,30,00,000.00
3	Transfer from contribution of PF	Nil
4	Interest on fund balance @ 5%	Nil
5	Total (2+3+4)	Nil
6	Withdrawals during the year 2016-17	4,32,65,200.00
7	Net accretion during the year 2016-17 (5-6)	(-)2,02,65,200.00
8	Closing balance (1+7)	(-)2,02,65,200.00
	Details of	Amount of Grants
	Grants for	2016-17
	Original Grant	Nil
	Supplementary Grant	0
	Residual	0
	Final Grant	Nil

MANUFACTURING SUSPENSE ACCOUNT FOR THE YEAR 2016-17

DEBIT SIDE		CREDIT SIDE (Rs. in Unit)	
PARTICULARS	01 April 2016 to 31 March 2017	PARTICULARS	01 April 2016 to 31 March 2017
	AMOUNT		AMOUNT
(1) WORK IN PROGRESH AS ON 01-04-2016	1179670605	(1)TRANSFER TO RLY.	
TOTAL (A)	1179670605	(i) SUPPLY OF COACHES	12184599291
B-(1) LABOUR		(ii) MISC. SUPLPLIES	0
(1) WORK SHOP DIRECT LABOUR	277406933	(2). BY CAPITAL STORE	0
(2) INDIRECT LABOUR	220056583	(i) MANUFACTURING	0
(3) SALARY AND ALLOWANCES OF ADM	475504413	(ii) RETURNED STORE	0
(4) WORKS CONTRACT	166840473	(3) BY CAPITAL WORK DONE PLANT AND MACHINERY & OTHER WORKS	0
(5) SALARY AND ALLOWANCES OF STORE	11734510	(4) BY WORK DONE ON DEPOSIT ACCOUNT	0
(6) SALARY AND ALLOWANCES OF TOWNSHIP	44839732	TOTAL CREDIT	12184599291
TOTAL LABOUR	1196382644	(5) BY EXPORT	
C-(2) STORES		(6) BY CLOSIN BALANCE (WIP AS ON 31-03-2017)	606971638

(1) STORE DIRECT FROM STOCK	8714663995		
(2) STORE DIRECT FROM DDO	1358198825		
(3) ADJUSTMENT	-21784673		
(4) INDIRECT STORE (FOH)	98456037		
(5) FOH DDO	34768772		
(6) FOH ADJUSTMENT	-51226330		
(7) INDIRECT STORE (AOH)	1329063		
(8) AOH DDO	118135108		
(9) AOH ADJUSTMENT	-1916818		
(10) INDIRECT STORE (SOH)	0		
(11) SOH DDO	28553973		
(12) SOH ADJUSTMENT	-1447350		
(13) INDIRECT STORE (TOH)	0		
(14) TOH DDO	15178683		
(15) TOH ADJUSTMENT			
(16) RETURNED STORE	-22310249		
(17) MISC.ADJ. (TR) DR/CR FROM TO OTHER RLY.	19498091		
TOTAL STORES	10290097127		
(3) OTHER CHARGES	0		
(1) APPRO. TO PENSION FUND	23524697		
(2) AOORI. TO DRF	0		
(3) APPRO. TO SBF.	2136800		
(4) ELECTRICITY (POWER)	95080648		
(5) STOCK ADJUSTMENT	0		
(6) FRIEGHT INDIRECT	13008186		
(7) MISC. INDIRECT	0		
TOTAL OTHER CHARGES	133750331		
(1) RECEIPT ON RENT AND WATER	-3842452		
(2) RECEIPT ON ELECTRICITY	-4487326		
TOTAL RECOVERIES	-8329778		
TOTAL (B)	11611900324		
GRAND TOTAL (A+B)	12791570929	GRAND TOTAL	12791570929



Civil Engineering Department

General-

- 1.1 MCF/RBL complex at Lalganj District Raebareli is spread over 540 Hectares of land out of which Workshop area is 187 Hectares, township area 335 hectares and remaining 18 hectares is used in rail connectivity from Lalganj Railway Station.
- 1.2 Workshop comprises approx. 1.93 lakh sqm covered structures. There are 1272 staff quarters (872 type-II, 240 type-III & 160 type-IVDS) including several service buildings in workshop and township. Besides, there are several community facilities such as shopping complex, school, clubs and rest houses separately for workers, supervisors and officers. Balance works of the establishment of MCF are in progress. Beside this the additional new 250 & 400 type-II & Type-III quarters were added in revised estimate out of which construction of 154 type-II Quarters and 320 type-III Quarters are in progress. Cost of occupied/commissioned Civil Engg. assets is Rs. 1100 Cr. (approx.)
- 1.3 Dense forestation of 40000 trees has been done in township side in consultation with Forest Department UP. Nature of soil in MCF is alkali (Usar). Efforts are being made to cover entire area of campus with plantation/greenery and maintain it suitably. On the basis of NBRI report 15000 tree plantations planned for Monsoon 2017.
- 1.4 IMS certification for workshop is in under process. Main emphasis is given on conservation of natural resources and to provide green & eco friendly environment. Entire sewage of factory and township is being treated in STPs (capacity 1.1MLD + 0.4 MLD in township and 1.1 MLD in factory). Treated water distribution network for its use in irrigation of greeneries & plantation is planned for commissioning in FY 2018-19.
- 1.5 Assets are being maintained regularly on planned manner with minimum departmental labour. General sanitation & horticulture activities are being outsourced along with other civil engineering maintenance works & special sanctioned works. Efforts of Civil Engg. Deptt. are to maintain assets regularly in due time with economical methods. All efforts are being made to maintain pollution free and pleasant environment in this Production Unit of Indian Railways.
- 1.6 Pre-fabricated structure with double layered roof sheeting has been used in various sheds of workshop. Large window openings with adjustable louvers have been provided to reduce the effect of heat in summer in most workshop structures, Skylights have been provided in roofs to facilitate day light and conserve electricity.

- 1.7 To integrate township with factory & admin building and avoid crossing of National Highway, 02 RUB has been constructed.
- 1.8 To inculcate community feeling and to carryout cultural activities & extracurricular activities, an auditorium of capacity 570 seats has been commissioned.
- 1.9 Hospital, Sr. Secondary School building and Nursery has also been Commissioned.

2.0 Organisation setup-

- 2.1 Civil Engineering Department is headed by Chief Engineer, who is assisted by 02 Dy. CE & 02 XENs.

Detail of sanction/on roll staff in engineering department is as under;

Category		Sanc. Strength	On Roll	Vacancies
Officers		12	06	06
Group 'C'	Supervisor	22	14	08
	Ministerial	13	08	05
	Artisan	27	12	15
Group 'D'		42	23	19
Total		116	63	53

There are 9 SSE/JE/W to maintain building & structures and 2 SSE/P-ways to maintain rail connectivity network along with handling of special sanctioned and project works.

3.0 Main features-

3.1 Water Supply

There are 3 tube wells in colony and 2 tube wells in workshop each with pumping unit. Requirement of water supply in colony as well as in workshop is met with through 200mm dia, deep tube-wells (320m to 360m) having enough yield.. Water from the tube wells is pumped to over head tanks. Total capacity of available 5 over head tanks is 2025 KL. Individual capacity and location of these over head tanks is as under.

OHT No.	Location	Capacity (KL)	Staging
OHT 1	Near type-II Colony in township	600	22 m high
OHT 2	Near type-V Colony in township	300	22 m high
OHT 3	Near type-IVDS Colony in township	450	22 m high
OHT 4	Near Gate No. 2 of Workshop	225	22 m high
OHT 5	Near MRS of Workshop	450	22 m high

Total length of main water pipe line in township is 25.50 km and in workshop is 16.00 km.

Average daily requirement of water is about 2250 KLD (1800 KLD for Township and 450 KLD for Workshop). Every effort are being made to reduce consumption of ground water by providing push cock type taps at public places and prevent leakages from roof top tanks. This demand will further reduced drastically after commissioning of distribution network of treated effluent for irrigation of lawns/greeneries in workshop and parks, service buildings, playgrounds and Type-IV & V quarters in township.

3.2 Rain Water Harvesting

Water requirement of MCF is met through ground water. To prevent depletion of ground water table of the area with the passage of time, an exhaustive plan of RWH in factory and township has been finalised to directly recharge 33% annual extracting quantity against 25% as per norms. These RWH pits and network is likely to commission before monsoon of 2018.

3.3 Fire Fighting Arrangements

Sufficient fire hydrants at strategic points in the workshop and administrative building have been installed to meet emergency requirement. 1 static ground water tanks of capacity 900KL and 01elevated tank of capacity 332KL has been provided.

3.4 Sewerage System

Sewerage system is separate from storm water drains. The sewage is carried to sewage treatment plants (STP) 1.1 MLD near type-II colony, 0.4 MLD near type-IVDS colony and 1.1 MLD in factory. These STPs are working on SBR technology. The details of sewers are as under.

SN	Description	Length(meter)	
		Workshop	Township
1	SW 200mm dia	4537	7725
2	SW 250mm dia	2011	2410
3	SW 300mm dia	-	888
4	RCC pipes 300mm dia	-	904
5	RCC pipes 350mm dia	465	1185
6	RCC pipes 400mm dia	696	-
7	RCC pipes 450mm dia	210	1907
8	RCC pipes 500mm dia	-	1588
9	RCC pipes 600mm dia	-	2142
10	RCC pipes 600mm pipe NP2	-	50
11	RCC pipe 800 mm Pipe	-	3370
Total		7919	22169

3.5 Storm water drains-

Entire MCF complex has a well planned open drainage and covered drainage system network which is ultimately discharge into natural drain (Mathana Nala) available in campus. Drainages are planned along both sides of main roads. To ensure proper functioning of storm water drains cleaning of drains before on set monsoon is being ensured. Detail of storm water drainage is as under;

SN	Description	Length(Meter)	
		Workshop	Township
1	RCC covered drain	9015	5000
2	RCC open drain	6296	15000
3	Brick drain (open)	-	9000
Total		15311	29000

3.6 Service roads-

There is well planned service road network. Details of road is as under

SN	Description of Road	Area(Sqm)	
		Workshop	Township
1	CC Road	82785	-
2	Bituminous Road	11123	219257

3.6.1 Other features of Civil Engineering Department of MCF are as under

Land

Private land	283Ha
Govt land	189Ha
Gram Sabha land	68Ha
Total	540 Ha

(Book Value approximate 60cr.)

3.7 Boundary Wall (km)

(i) Township	10.78 Km
Workshop	5.50 Km
Total	16.28 Km.

Entire premises of MCF/RBL are enclosed with gap less boundary.

(ii) Fencing/boundary wall of assets

Location	Brick walled	Fabricated concrete panel	Expansion metal/chain link fencing	Total length (Meter)
Township	14013	1107	30555	45675
Workshop	3457m	0	0	3457
Total	17470	1107	30555	49132

3.8 Residential Accommodation

Type	No. of quarters
II	872
III	240
IVDS	160
IVSS	70
V	46
VI	4
GM Bungalow	1
Total	1393

3.9 Workshop Structures (sqm)

(i)	Covered area	=	269800
(ii)	Un-covered area	=	139318

3.10 Other Structures (sqm)

(i)	Service Buildings	=	6858
(ii)	Anc. Build. in Workshop	=	8600

3.11 Welfare Buildings (sqm)

(i)	Township	=	17362
(ii)	Workshop	=	3850

3.12 Track

Description	Length(Km)
Ballasted Track	7.905
Embedded Track	13.318
Points & crossing	17Nos

4.0 Expenditure during financial year 2016-17

(Rs.inTh)

SN	Plan head	Allocation	Expenditure
1	4200	Cap	385700
2	7200	WMS	25000
Total			410700

5.0 Major Achievement of the year 2016-17

5.1 (By MCF in house)

- Officer's & Sub-ordinate ORH on the roof of NDCE building at NDLS, Nursery in township, Cycle Stand Near Main Gate of Township, High Mast Monumental Flag at Central Park has been completed and commissioned.
- Quarter allotment process uploaded on MCF/RBL website for transparency in allotment of quarters. 1390 quarters has been allotted to officers and staffs and in occupation.

- E-tender for works contract started from 15.12.2016. Presently all works contracts are being done through e-tender (IREPS).
- Contract of hiring of vehicles for officer, maintenance contract of admin building, type-II quarters, Workshop and construction of GM's Camp Office & ORH at Thomson Road New Delhi has been awarded successfully in this year.
- Pending cases of lands has been accepted successfully in this year.
- Contract awarded for Alambagh (Phase-I) and Kota Workshop (PhaseI) .
- For Beautification of Administrative building, a 10m dia fountain have been developed.
- Followings buildings/shed have been constructed and started to utilize.
 1. Auditorium
 2. Balance portion of Hospital

5.2 In interface with M/s IRCON-

- Approval of GADs and subsequent drawing structures costing Rs. 80 Cr. (*Drawings of additional quarters of Type-II, III etc sanctioned in revised estimate*)
- Recoupment of bills- Rs. 37.82 Cr.
- Commissioning of assets worth Rs.25Cr. (*Rest Part of Hospital, Senior Secondary School Building, Auditorium etc.*)
- Taking over assets worth Rs.100Cr. (*Rest Part of Hospital, Senior Secondary School Building, Auditorium, Workshop office complex, Material Testing lab, Watch Towers, Horticulture work in Workshop and Township, PDC and Electronic shop, TTC Workshop, XEN and SSE building in Workshop, Toilet block no.1, STP in Workshop, Factory gate etc.*)



Personnel

Annual Progress Report of Personnel Department for the year 2016-17

1. Over all Cadre position of MCF/RBL as on 31.03.2017 after ministerial cadre restructuring :-

S. No.	Category	Revenue	W/C	Total	On roll	Vacancy
1	Gazetted	148	24	172	122	50
2	Supervisors	342	65	407	314	93
3	Artisan	1279	0	1279	1085	194
4	Ministerial	288	14	302	176	126
5	Others (A/C, RPF, Med.)	158	12	170	115	55
6	Group-D	499	41	540	532	8
Total		2714	156	2820	2344	526

a) **Cadre of Gazetted Officers:-**

The staff strength of Gazetted cadre during the year 2016-17 is given below:-

S. No.	Category	Revenue	W/C	Total	On roll	Vacancy
1	HAG+	01	00	01	01	00
2	HAG	01	01	02	02	00
3	SAG	18	06	24	19	05
4	SG/JAG	35	11	46	35	11
5	SS	35	04	39	20	19
6	JS/Group-B	58	02	60	45	15
Total		148	24	172	122	50

b) **Cadre of Non-Gazetted Staff:-**

The staff strength of Non-Gazetted cadre after ministerial cadre restructuring during the year 2016-17 is given below:-

S.No.	Category	Revenue	W/C	Total	On roll	Vacancy
1	Supervisors	342	65	407	314	93
2	Artisan	1279	0	1279	1085	194
3	Ministerial	288	14	302	176	126
4	Others (A/c, Security, Gen. Admn, Med.)	158	12	170	115	55
5	Group-D	499	41	540	532	8
Total		2566	132	2698	2222	476

2. a) Work Charged Gazetted Posts:-

The details of work charged/temporary gazetted posts created/Extended during the year 2016-17 are as under:-

S.No.	Deptt.		Grade	Period of Currency	
				From	To
1.	Mech.	1	01 HAG	Extension up to 30.06.17 is pending in Rly. Board.	
		2	02 SAG		
		6	06 JAG/SS/JS		
2.	Per.	1	01 SAG		
		3	03 JAG/SS/JS		
3.	Acct.	1	01 SAG		
		3	03 JAG/SS/JS		
4.	Store	1	01 SAG		
		3	03 JAG/SS/JS		
5.	Civil	1	01 SAG		
		1	01 JAG/SS/JS	30.06.2016	30.06.2017
6.	S&T	1	01 JAG/SS/JS	30.06.2016	30.06.2017
Total		24			

b) Work Charged Non-Gazetted Posts:-

The details of work charged/temporary non-gazetted posts created/Extended during the year 2016-17 are as under:-

S.No.	Deptt.	No. Of Posts	Period of Currency	
			From	To
1.	Supervisor	65	01.04.2016	31.03.2017
2.	Ministerial	14	01.04.2016	31.03.2017
3.	Others (A/c, Security, Gen. Admn, Med.)	12	01.04.2016	31.03.2017
4.	Group 'D'	41	01.04.2016	31.03.2017
Total		132		

3. Indent Position:- The following Indents have been placed and received during the year 2016-17, their details are as under:-

Category	Indent placed	Panel received	Balance	Remarks
JE (P.Way)	01	----	01	
JE (Works)	01	----	01	
Tech. (Civil)	05	----	05	
TCM-III	02	----	02	
SSE/D&D	00	----	00	
JE/D&D	00	----	00	
Sr. Clerk	10	----	10	
Others (Med & G branch)	47	----	47	
Total	66	----	66	

4. APPOINTMENT IN GROUP C&D AGAINST VARIOUS QUOTAS:-

The detail of appointments on various quotas during the year 2016-17 is as under:-

S. No.	Category	For the year 2016-17
1	Compassionate Ground	02
2	Sports Quota	-
3	Ex-Serviceman Quota	-
4	Physical Handicapped Quota	01
5	Crash Programme for wiping out shortfall of SC/ST	-
6	Casual Labour absorbed	-
7	No. of Staff Recruited Scout/Cultural Quota	-
8	Sub. Act App. B/Kh	-
Total		03

5. Settlement Dues:-Total no. of cases in which payment has been made of settlement dues during the year 2016-17.

S. No.	Nature of Settlement	No. of Cases received	No. of Cases Settled	Balance Cases
1	Superannuation	04	04	NIL
2	Voluntary Retirement	01	01	NIL
3	Compulsory Retired	-	-	-
4	Resignation	-	-	-
5	Removal & Dismissal	-	-	-
6	Medical Unfit Cases	-	-	-
7	Death Cases	02	01*	*01 case pending (NPS Case)
Total		07	06	

6. PROMOTIONS:-

During the year selections, suitability & Trade Test were conducted. 338 Non-Gazetted employees of various categories have been promoted. 11 employees of various departments have been promoted to Group "B" Gazetted.

Beside this all MACP cases due during financial year have been finalized.

S.No.	Category	Number of staff promoted this year.
1	Gazetted	11
2	Supervisor	26
3	Ministerial	18
4	Artisan	294
Total		349

7. Recruitment:-

32 numbers of candidates have been recruited in the following categories during the period of 2016-17.

S.No.	Category	Recruited
1	Supervisors	05
2	Ministerial	06
3	Technicians	00
4	Group-D	21
	Total	32

8. VIP References:-

38 No. of VIP references were received from Railway Board/MPs/MLAs during the year 2016-17. All these references have been finalized in time.

9. BONUS:-

In the years 2016-17 Group-C&D staff of MCF/RBL has been Paid productivity linked Bonus detail of which is given as below:-

No. of Employees 2016-17	Productivity Linked Bonus (In Rs.)
2100	4,22,00,356.00

10. Salary Payment during 2016-17:-

No. Of Staff	Amount Paid
Gazetted	15,76,34,521.00
Non Gazetted	93,23,50,442.00
Total	108,99,84,963.00

11. Disbursement of Advances for the year 2016-17:-

Following advances on various accounts had been disbursed during the year 2016-17 as under:-

HEADS	FUND ALLOTTED	FUND PAID	FUND BAL	No. of Staff
HBA	50,00,000	NIL	50,00,000	NIL
M.CAR	NIL	NIL	NIL	NIL
M.CYCLE/ SCOOTER	NIL	NIL	NIL	-
COMPUTER	25,00,000	25,00,000	NIL	50
CYCLE	NIL	NIL	NIL	-
TOTAL	75,00,000	25,00,000	50,00,000	50

12. Online Portals being operated at MCF/RBL:-

- ARPAN
- COMPTRAN
- CPGRAMS
- NIVARAN

13. In house training of Personnel Branch Staff:-

Classes were held for giving basic training to the directly recruited ministerial staff through RRBs for their induction into railways by Personnel Branch officers.

14. Industrial Relation:-

During the year 2016-17, the industrial relations have remained cordial at MCF, Raebareli with not even a single incident of unrest or indiscipline.

15. Staff Contact and Grievance handling:-

First week in each month grievance camps were held within the factory premises and approximately 105 grievances were collected by contacting the staff personally and 90 complaints were disposed of due course. Besides this a drive (Karmchari Sampark Abhiyan dt. 20.06.16 to 01.07.16) was organized for updating of service record and staff was contacting for perusal and updating of the same.

- **Karmchari Sampark Abhiyan**



16. Staff Welfare

- SBF created for staff of MCF in the year 2014.
- A branch of KV, Raebareli made operational from Nov 2013 for classes upto 9th standard.
- Facilities of Loan & membership for Staff of MCF, RBL got co-opted with NR Primary Co-op society of Lucknow.
- Karmchari Kalyan Kosh started on basis of wilful contribution by the employees to help staff in 2 distress and 4 death cases.
- Staff grievance camps being held regularly in the factory.
- Enrolment of Railway staff for Territorial Army has been started.
- Arranging for Career Counselling Seminar in TTC/MCF/RBL on dt. 02.07.16
- Women's Health Check-up Camp dt. 08.03.17 in International Women's Day.
- Appointment of Homeopathy Doctor through under Staff Benefit Fund on dt. 08.07.16
- MCF/RBL Group registration of Scouts & Guides in NR Railway on dt. 27.10.2016
- Arranging for First Aid training programme in TTC/MCF/RBL on dt. 20.11.16 to 26.11.16

- Arranging for Bramhakumaris Meditation programme in TTC Auditorium, MCF/RBL on dt. 08.12.16 & 09.12.16.



- Competition of poster making and essay writing has been organized on the subject of Swachh Bharat Mission 2016-17 on dt. 07.07.16.



- A martial Art training Camp is regularly working in the supervision of trained teachers:-



17. Staff Benefit Fund:-

The staff Benefit Fund Committee continued to function effectively and satisfactorily. Brief particulars of disbursements made for various objectives are as under:-

Description	Expenditure in Rs.
Education of children/works of staff	Nil
Education of Girls Children of Group-D Staff	Nil
Recreation other than sports	Nil
Cultural Activities	59,400.00
Relief of distress and Scheme of Sickness.	39,000.00
Relief of distress for Class-IV Emp.	Nil
Miscellaneous.	12,675.00
Women Empowerment Activities.	57,300.00
Recreational facilities to Supervisors.	Nil
Recreational facilities to Workers Club.	Nil
Indigenous system of Medicines including Homeopathic.	1,04,000.00
Financial help to Physically & Mentally/Challenged Children	Nil
Total	2,72,375.00

18. Canteen (Factory premises and Admin. Building):-

One modern and well equipped statutory Staff Canteen has been established in workshop area, which caters to the needs of more than 2500 employees, in supplying Tea/Snacks/Cold-drinks and meals (lunch) etc. It has a seating capacity of 400. One small canteen in Administrative block is also supplying samosas, tea, coffee, soup and cold drinks to the staff working in Administrative Block.



19. Celebration of various important events/days:-

Important events during 2016-17 like Independence Day, Republic day, Railway Week Function, Yoga day, Ambedkar Jayanti etc. were organized with full enthusiasm.

- Republic Day Celebration



- Independence Day Celebration



- Railway Week Award Function -2016



- Yoga Day Celebration



- Dr. B.R. Ambedkar Jayanti



- Children's Day Celebration



20. Activities of MCFWWO

One of the major activities of MCFWWO is being run in the form of Gyanda Bal Mandir, a Play group for the children of employees of MCF/RBL. It is running with 02 class rooms and having a well equipped play room, kitchen and play area for the children. The school holds various functions on all important dates like Republic day, Independence day, Children's day and Teacher's day





Medical

- 1 Sanctioned strength of Doctors in MCF/RBL Hospital is 14 but only 06 regular Doctors and 03 CMPs, 01 part time dentist and 01 homeopathic doctor are posted. Filling up of remaining post is under process.
- 2 Digital X-ray machine has been installed and working well.
- 3 Fully Bio Chemistry Analyser has been installed and working well.
- 4 73 cases of Medical Reimbursement were received and all cases was cleared.
- 5 Dr. O P Chaudhary Hospital Lucknow has been empanelled for treatment of MCF beneficiaries for second year consecutively.
- 6 Ajanta Hospital and IVF Centre, Lucknow has been empanelled for treatment of MCF beneficiaries.
- 7 Chandra Eye Care, Lucknow has empanelled for treatment of MCF beneficiaries.
- 8 Medanta- The Medicity Global Health Pvt. Ltd. Gurugram has been empanelled for treatment of MCF beneficiaries for second year consecutively.
- 9 Regular indent for medicine are being placed for procurement through COS. For those not received through indent procurement by local supply order on three quotation basis.
- 10 Urgently required drugs are procured through cash imprest.
- 11 School Health check up camp, Blood donation camp, Women health check up camp and health check up camp were organised.
- 12 ECG machine, Multipara Monitor, Suction Machine, D-Fabricators, CPR instruments were added to be emergency room.
- 13 8 beds have been kept ready for emergency.
- 14 One ambulance has been procured by M&P and other (ACLS) ambulance has hired through open tender.
- 15 Tender of Bio Medical Waste has finalised and BMW work is running.

Vigilance Department

➤ History of Vigilance Department in MCF/RBL:

- Modern Coach Factory, Raebareli is under setting up stage and we are now taking over functions independently. There are seven departments in this organisation, i.e.:
(i) Mechanical (ii) Electrical (iii) Stores (iv) Accounts
(v) Personnel (vi) Civil and (vii) General Administration.
- Before setting up of Vigilance Office, SDGM/NR was our Chief Vigilance Officer.
- At present against the 181 sanctioned posts in Gazetted cadre only 126 posts are in operation along with 2218 number of non-gazetted posts. At present a small vigilance office is working, which will be expanded in future.
- Shri. A. K. Srivastava, CEE/MCF/RBL had taken over the charge of Chief Vigilance Officer/MCF/RBL on 17.11.2015.
- Shri. Anil Kumar, Dy.CME/Mfg&Bogie/MCF/RBL had taken over the charge of Dy. Chief Vigilance Officer/MCF/RBL on 04.12.2015.
- Selection of CVI's has been conducted and the following 02 CVI's have joined their duties in vigilance department:
(i) Sh. Rajiv Ranjan, CVI/Mech./MCF/RBL on 10.07.2017.
(ii) Sh. Sanjay Kumar, CVI/Stores/MCF/RBL on 17.07.2017.

➤ Summary of Cases:-

- 01 CVC & CBI referred complaint and 10 Railway Board referred complaint have been finalized and 01 Railway Board referred complaint is under progress.
- 04 Vigilance Cases of Gazetted officers have been closed and 05 Vigilance Cases are under investigation.

➤ Vigilance Awareness Week was observed from 31.10.2016 to 05.11.2016 at MCF/RBL.





Security



RAILWAY PROTECTION FORCE

MODERN COACH FACTORY, RAEBARELI

Annual Report -- 2016-17



THE SECURITY BRANCH

GENERAL

Railway Protection Force has assumed the duties of Protecting the Railway Property of the Modern Coach Factory, Raebareli since 15th February, 2011. Railway Protection Force (RPF) is an Armed Force of the Union. The Responsibility of this Unit is to protect the Railway Assets of the Modern Coach Factory, Raebareli. For this purpose, Strength of 63 members of the Force has been sanctioned.

At MCF, RPF has a set up of Executive Branch and Crime & Special Intelligence Units. A 24X7 Security Control Room has also been Operationalised. All these Units work under the control and command of Senior Security Commissioner/RPF. The Administrative Control of this Security Department lies with Inspector General-cum-CSC/RPF/Northern Railway, Baroda House, New Delhi and General Supervision is under the Chief Vigilance Officer, MCF.



JURISDICTION

This Factory is being set up in 540 hectare land, which includes construction of a modern, eco-friendly Township with need based Social Infrastructure for providing Residential Accommodation to its Employees.

The Modern Coach Factory, Lalganj, Rae Bareli, is situated at 05 Km east of Lalganj Railway Station on Lalganj-Raebareli Road. The Factory Area is spread across 1.67 Sq.Km, and Township Area is spread across 353 Ha land.

The Township is encircled by a 10.57 Km Long Perimeter Boundary Wall and the length of the Perimeter boundary wall of the Workshop is 5.4 Kms. The MCF area falls under the jurisdiction of Police Station, Lalganj. The Police Station, Lalganj comes under Lucknow range which is headed by an IG, Uttar Pradesh Police.



PRIVATE SECURITY

The Railway Protection Force is being assisted by Uttar Pradesh Purva Sainik Kalyan Nigam Limited (A UP Government Undertaking), who had been awarded a Contract for a Period of 36 months from the date of actual commencement of the work.(viz; from 10.07.2016 to 09.07.2019) for Guarding the Railway Property in the identified Non-Core Areas, having a strength of 96 Security Guards.

POSTING & TRAINING

The General tenure of Non-Gazetted RPF Personnel at MCF is for 3-5 years. The Periodical Transfer of RPF staff is carried out by the IG-cum-CSC/RPF/NR. The Members of the Force are regularly trained to update their Soft & Hard Skills.

The Present Strength for the year 2017 of the RPF Personnel is as under:

Description	Sr.SC	SC	IPF	SI	ASI	HC	Const	Total
Sanction Strength	01	01	02	07	08	12	34	65
Present Strength	01	01	02	05	06	01	41	55
Vacancy	-	-	-	-02	-02	-11	+7	08

The Training details of the RPF Personnel are as under:

S. No.	Name	Rank	Course Name	From	To
1.	Amit Kumar	CT	Joint Counter Terrorist Exercise(NSG)	16.05.2016	28.05.2016
2.	Ishwar Singh	CT	-do-	16.05.2016	28.05.2016
3.	Brajesh Kumar	CT	Jungle Warfare	04.04.2016	30.04.2016
4.	Vikram Singh	CT	-do-	04.04.2016	30.04.2016
5.	Sunil Kumar Tiwari	CT	-do-	04.04.2016	30.04.2016
6.	Pushpender Kumar	CT	-do-	13.06.2016	08.07.2016

7.	B.N. Yadav	IPF/SIB	Seminar on Human Rights, Gender sensitization, Juvenile Justice Act & Customer for Inspectore	07.11.2016	11.11.2016
8.	Nitin Kumar	CT	Master Trainers in Commando course CRPF, Mudkhed (Maharashtra)	28.11.2016	23.01.2017
9.	Parmatma Prasad Shukla	ASI	Fire Fighting Techniques for the front line Railway Servants	04.01.2016	08.01.2016
10.	Ishwar Singh	CT	Jungle Warfare	07.08.2017	02.09.2017

RSMS Course

S.No.	Name Sh.	Rank	Course	From	To
1.	Govinda Ram	CT	-do-	01.02.2016	05.02.2016
2.	Nirbhay Chandra	CT	-do-	23.05.2016	27.05.2016
3.	Shivdhani Prasad	CT/CIB	-do-	20.06.2016	24.06.2016
4.	Gokul Nath Mishra	SI	-do-	25.07.2016	29.07.2016
5.	Subash Chandra	CT/CIB	-do-	29.08.2016	02.09.2016
6.	Rajkumar Singh Yadav	CT/CIB	-do-	26.09.2016	30.09.2016
7.	Manish Kumar	CT	-do-	15.11.2016	19.11.2016
8.	Arun Kumar	CT	-do-	19.12.2016	23.12.2016
9.	Pawan Kumar Mishra	CT	-do-	20.02.2017	24.02.2017
10.	Ashok Kumar	CT	-do-	06.03.2017	10.03.2017
11.	Pushpendra Kumar	CT	-do-	24.07.2017	28.07.2017



ACCOMODATION

Accommodation is provided to the RPF Staff in the Railway Quarters, the details of which is as under:

S. No.	Number of Personnel	Rank	Type of Quarter
01	01	Sr.SC	Type-V
02	01	SC	Type-IV SS
03	02	IPF	Type-IV DS
04	03	ASI	Type-III
05	10	CT	Type-II

The RPF barracks comprising of 32 bedded Barrack (For Male Personnel) and 10 bedded Barrack (For Female Personnel) is under construction in the first Phase in the Township Premises which is Scheduled to be completed in the month of December, 2016.

DOG SQUAD

The Dog Kennel for 01 Tracker & 01 Sniffer Dog has been proposed for which a Dog Kennel is to be constructed. The matter is under active consideration by the Competent Authority.



CRIME CONTROL

During the year 2016-2017, the RPF was able to successfully implement the Zero Tolerance Policy as the result of which, 03 cases of theft of Railway Property was registered. This result was achieved due to 24 X 7 hours Patrolling, Strict Access Control at all the Entry/Exit Gates and round the clock Surveillance of the Identified Vulnerable Points.



ARMS & AMMUNITIONS:

This RPF unit is equipped with latest Weapons. The details of which are as under:

S. N.	Arms	Quantity	Siling	Ammunitions	Spare Magazine	Bayonet	Nozzal Cap
1.	Rifle 7.62 mm{SLR} IAI	04 Nos.	--	400 Nos.	16 Nos.	--	--
2.	ARM 7.62x39mm ARM	03 Nos.	--	300 Nos.	12 Nos.	--	--
3.	Rifle 5.56mm{INSAS} fold Butt 2A	08 Nos.	08 Nos.	400 Nos.	40 Nos.	04 Nos.	08 Nos.
4.	Pistol Auto 9mm with Magazine	22 Nos.	--	1380 Nos.	44 Nos.	--	--
5.	Carbine Machine Gun 9mm IA. IAI	08 Nos.	--		24 Nos.	--	--
Total =		45 Nos.	08 Nos.	2480 Nos.	136 Nos.	04 Nos.	08 Nos.

MODERNISATION

To strengthen the working of the Force, the Force has been provided with latest Security Gadgets modern Bullet Proof Jackets & Helmets, Polycarbonate Shield and Canes, Dragon Search Lights, High resolution CCTV Based Surveillance System etc. the details of the Security Items are as under:

Name of the Security Item	Quantity
Bullet Proof Jacket	06 Nos.
Bullet Proof Helmet	10 Nos.
Polycarbonate Shield	20 Nos.
Body Protector	20 Nos.
Polycarbonate Lathi	20 Nos.
Sony Camcoder	01 No
Sony Dsc Camera	01 NO
Dragon Search Light	05 Nos.
Emergency Lights	17 Nos.



ACCESS CONTROL

It is proposed to realize an IP based integrated security system for Intruder Detection, Alarm Generation and Protection. The system shall have the following features:

- Totally an IP based network, digitally controlled and remote monitoring system.
- Graphical Mimic Panel at Control Room
- IP based Access Control System for MCF/RBL is being designed and finalized.
- This System will be integrated with the n electrically controlled Boom Barriers & RFID Based identification System at the Entry/Exit Gates.

ASSISTANCE REQUIRED FROM THE RAILWAY BOARD

A Proposal for Sanctioning/Creation of additional 137 nos Non-gazetted RPF personnel for MCF/RBL with the approval of CSC/NR concurred by the Associate Finance and approved by the GM/ has been sent to the Secretary Railway Board with copy to Security Directorate, Railway Board in Feb 2016. An Early Sanction will strengthen the Security of MCF/RBL Assets.

THE FUTURE ROADMAP

- Developing a State of the Art Integrated Security Architecture Comprising of Intrusion Detection System and RFID based Access Control.
- Achieving Higher standard of efficient Practices as specified by the ISO.
- Introducing Aerial Surveillance which will complement the Ground Access Control and will also help in Speedier Rescue & Relief Operations during Disaster Incidents.



Sports Association

Annual Report 2016-17

1.0 Cricket

Sh.Vikash Chaoudhary, OS Stores department had attended BCCI Sports Science and Sports Medicine Orientation workshop from 05th to 11th September 2016 at NCF, Bangalore. He was nominated

- as fitness trainer for Indian Railway U-23 Cricket team for Coaching Camp from 9th to 18th August 2016 at Bangalore.
- as fitness trainer for Indian Railway U-23 Cricket team for Coaching Camp from 15th Sept. to 07th Oct. 2016 at Delhi.
- as fitness trainer for Indian Railway U-23 Cricket team for C.K. Nayudu Trophy from 10th Oct. to 10th Nov. 2016 at Delhi.

Inter department tournament was conducted at MCF Cricket Stadium and won by Furnishing shop.

2.0 Lawn Tennis Team

First time MCF team has participated in All India Railway Lawn Tennis Championship conducted by (RDSO) Lucknow.

3.0 Football

Inter department tournament was conducted at MCF Football Stadium and won by furnishing shop.

4.0 Hockey

MCF hockey team was participated in District Hockey league.

5.0 Summer Coaching Camp.

MCFSFA had organised summer coaching camp at MCF during the summer vacations in following games and around 250 children between age group 04 to 18 years were participated in to the event.

- | | | | |
|--------------|--------------|------------|-----------------|
| 1. Hockey | 2. Football | 3. Cricket | 4. Table Tennis |
| 5. Badminton | 6. Athletics | | |

6.0 Bal divas khel mela.

Bal divas khel mela organised by MCFSFA for children age group between 02 to 12 years and around 300 children were participated.

7.0 Aquatic Team

First time MCF team has participated in All India Railway aquatic Championship conducted by (WR) Rajkot.

8.0 Athletics Team

MCF team has participated in Athletics All India Railway Championship conducted by (SR) Trichirapalli.

9.0 MCFSA has organised All India Railway Powerlifting Championship 2016-17.

13th Men & 07th Women All India Railway Power lifting Championship 2016-17 was organised in befitting manners from 02/08/2016 to 05/08/2016 by MCF Sports Association at Gomti Indoor Stadium, Lalganj Raebareli and more than 17 teams and around 250 players & officials from different Railways were participated in this event.

10. MCFSA has organised All India Railway Boxing Championship 2016-17.

71th Men & 10th Women All India Railway Boxing Championship 2016-17 was organised in befitting manners from 03/10/2016 to 06/10/2016 by MCF Sports Association at Gomti Indoor Stadium, Lalganj Raebareli and more than 19 teams and around 240 players & officials from different Railways were participated in this event.

11. MCFSA has organised All India Railway Weightlifting Championship 2016-17.

64th Men & 03th Women All India Railway Weightlifting Championship 2016-17 was organised in befitting manners from 22/11/2016 to 24/11/2016 by MCF Sports Association at Gomti Indoor Stadium, Lalganj Raebareli and more than 17 teams and around 260 players & officials from different Railways were participated in this event.

12. Sports Facilities at MCF

Indoor & outdoor sports stadium have playing facilities at Modern Coach Factory sports i.e. Badminton, Basketball, Squash, Table Tennis, Yoga, Taekwondo cum marshal art, Multigym. Hockey, Football, Cricket, Volleyball, Lawn Tennis, Golf, Weightlifting, Powerlifting, Boxing, Gymnastic, Billiards, Other sports facilities may be added subsequently.





Sanskritik Sangathan

1.0 Inauguration of Sarswati Auditorium

A colourful programme was organised on 21.04.2016 at the Inauguration of Sarswati Auditorium. Padma Shri Bhojpuri Singer Malini Awasthi sang songs with children. Sh. Alok Dave, General Manager, MCF/RBL gave away memento to Malini Awasthi on behalf of MCF/RBL .



2.0 Celebration of Independence Day

Independence Day was celebrated on 15.08.2016 with full enthusiasm. On this occasion children displayed a very attractive dance & also a drama presented by MCF/RBL staff.



3.0 Cultural Programme of 'Santoor Wadan' by Padma Shri Bhajan Sopori

Instrumental music "Santoor Wadan" Play by Padma Shri Pandit Bhajan Sopori was organised by SPIC MACAY and Cultural Organisation MCF/RBL on 25.08.2017



4.0 Inter Railways Drama Competition

Inter Railways Drama Competition held from 11.05.2016 to 13.05.2016 in Guwahati. Drama “Vridhashram” staged by the team of MCF/RBL in this competition.