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आज़ादी का
अमृत महोत्सव

ANNUAL
REPORT
2022-23

WE ARE THE
FUTURE



आधुनिक रेल डिब्बा कारखाना, रायबरेली
MODERN COACH FACTORY, RAEBARELI

केवल कार्यालय प्रयोग हेतु
FOR OFFICE USE ONLY



आधुनिक रेल डिब्बा कारखाना, रायबरेली MODERN COACH FACTORY, RAEBARELI



मैं 31 मार्च 2023 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, 2023.

प्रमाणित 13/12/23
(पी. के. मिश्रा)
महाप्रबंधक

प्रमाणित 13/12/23
(P. K. Mishra)
General Manager

सचिव,
रेलवे बोर्ड, नई दिल्ली।

The Secretary,
Railway Board, New Delhi.

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IMPORTANT MILESTONES

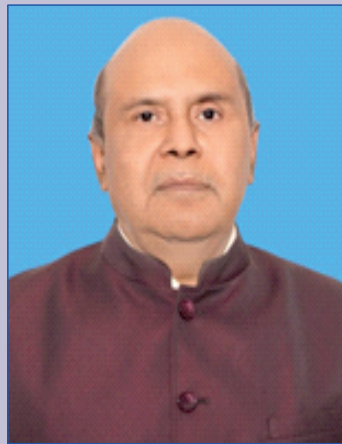
Important Milestones	Date
Foundation stone	Feb' 2007
Commencement of the land acquisition	Aug' 2007
Preparatory Construction work commenced	Feb' 2009
Actual Construction of Factory started	May' 2010
Commissioning of 33 KV Transmission Line	Jan' 2011
Finishing & Furnishing shop work completed	April' 2011
First Coach Furnished (Shell supplied by RCF/KXH)	April' 2011
Furnishing of the 1st coach	April' 20
11 Furnishing of the 1st LWSCZAC (Chair Car)	June' 2012
Furnishing of the 1st LWFCZAC (Ex. Chair Car)	July' 2012
Dedicated of The factory to the Nation	Nov' 2012
Furnishing of the 1st LWACCW coach	Nov' 2012
First Shell Assembly (Major sub assembly by RCF/KXH)	July' 2013
Rolling out of the 100th coach	July' 2013
Assembly of the First LHB coach shell by MCF	July' 2013
Completion of the Bogie shop	Feb' 2014
Completion of Shell, Paint and Machine shops	Mar' 2014
The first prototype fabricated Fiat bogie manufactured	Aug' 2014
The first complete LHB coach including shell by RCF/RBL Manufactured	Aug' 2014
Furnishing of the 1st LWSCN coach	Sep' 2014
Completion of Administrative Building	Nov' 2014
Complete Bogie Assembly	Dec' 2014
The first Fiat bogie Manufactured	Dec' 2014
Commissioning of 132 KV MRS	Jan' 2015
First Bogie Manufactured	Feb' 2015
100th Shell Manufactured	June' 2015
1st LSCN Shell Manufactured	July' 2015
100th Bogie Manufactured	Dec' 2015
RCF, Raebareli Renamed as MCF, Raebareli	Dec' 2015
Rolling out the 500th coach	Feb' 2016
1st GS Shell Manufactured	April' 2016
Established Recognised Technical Training Centre	May' 2016
IMS Certification	Oct' 2016
800th Coach furnished	Oct' 2016

Ist Rake of Humsafar coaches despatched	Nov'2016
Rolling out 1000th coach	Jan' 2017
Ist Rake of Antyodaya Coaches despatched	April'2017
Ist Power Car shell manufactured	May'2017
1000th Shell manufactured	May' 2017
5th Rake of Humsafar coaches despatched	June' 2017
Ist Power Car handed over to ZR	Oct' 2017
Rolling out of the 1500th coach	Oct' 2017
Ist coach of Deen Dayalu despatched	Jan' 2018
Total 25 nos. of Power Car handed over to ZR	Mar' 2018
Rolling out of the 2000th Coach	May'2018
Ist SMART Coach despatched	May'2018
Ist LHB Under slung LDSLR Coach turned out	Jan'2019
Ist LHB AC Pantry car turned out	Jan'2019
Ist LHB Non-AC Chair Car turned out	Feb'2019
Ist LHB Track Recording Car Turned out	Mar'2019
Green Co Platinum Rating Conferred to MCF	June'2019
Ist LHB First AC Coach Turned out	Aug'2019
Rolling out of the 4000th Coach	Aug'2019
Rolling out of the 5000th Coach	Feb'2020
02nd Rake of Smart version-2 Humsafar Coaches despatched	26th Jun' 2020
Ist LSLRD-AC-750 KVA (LWLLRMDAC) coach despatched	July'2020
Rolling out of the 6000th Coach	Nov.'2020
Ist LSLRD AC-750 KVA (18711) coach despatched for trial	Nov.'2020
Flagging off of Ist ever Smart Tejas Sleeper Rake manufactured	27th Nov.'2020
6th smart Tejas Sleeper Rake despatched	Mar'2021
Rolling out of the 7000th Coach	July'2021
Ist Rake of 12 Loco Hauled Cape Gauge Coach (to Mozambique)	Oct '2021
Rolling out of the 8500th Coach	Mar '2022
Vande Bharat Trainset (Shell) prototype model	Mar '2022
Rake of 3 Phase Cape Gauge DEMU (Exported to Mozambique)	Dec. '2022
Rolling out of the 9981 Coach	31st March 2023

GENERAL ADMINISTRATION



The Team MCF



Sh. P. K Mishra
General Manager



Sh. S.S.Kalsi
PCME



Sh. N.D.Rao
PCMM



Sh. Harish Chander
PCEE



Sh. S.K.Katiyar
CAO



Sh. S.P. Yadav
CE



Sh. M.K.Agarwal
SDGM & CVO



Sh. Amar Kumar Sinha
PFA



Sh. Amarnath Dubey
PCPO



Sh.D.K. Singh
CDE



Sh.M.K.Shakarwal
PCMO



Sh. Ashish Jain
CMM/BOGIE.



Sh. K.K. Kannoja
CMM/SHELL



Sh.Ajay Arora
CMM/PRODUCTION



Sh. Sandeep Shukla
CMM/ ELECT.



Sh. V.K. Pathak
CMM/FUR



Sh. Roopesh Srivastava
CPL



Sh. Mahesh Kumar
CPE



Sh.Md.Saquib
CWE/SHELL



Sh. Sanjay Kr.
CEDE



Sh. Raju Prasad
CQM-II



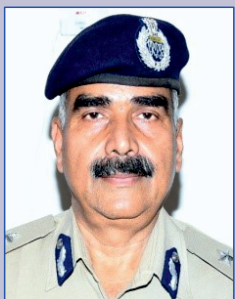
Sh. S.S.Kero
CWE/FUR



Sh. A. Sharma
FA & CAO-I



Sh. R.K.M.Pasi
CQM-I



Dr. S.K.Saini
PCSC



Sh. R.N.Tiwari
Secy to GM & CPRO

PUBLIC RELATIONS & PUBLICITY

1. PUBLICITY

All new developments and activities were publicized and highlighted through publication and distribution of Publicity Brochures, Pamphlets and other publicity Material. Photographs of different products and publicity data were displayed through Flex Display Boards at different locations in MCF. Several brochures were printed and distributed in events and exhibitions. All ceremonial functions, important events, new developments, sports events were given due coverage by Electronic and Print media in their esteemed newspapers and TV channels.

Mode of Publicity	2022-23
No. of Press Release issued	61
No. of Display Banners displayed	38

2. CLASSIFIED ADVERTISEMENTS:

Tender Notice Advertisements were issued regularly during the financial year 2022-23. The contents were regularly scrutinized for space wastage and editing of matter to be published before releasing to various newspapers.

Description	2022-23
No. of Tender Notices Published	107
No. of Insertions	277
Expenses Incurred (in thousands)	Rs. 5,140

3. ASSISTANCE TO CITIZENS THROUGH RTI ACT, 2005

The Right to Information Act 2005 provide for setting out the practical regime of right to information for citizens to secure access to information under the control of public authorities in order to promote transparency and accountability in the working of public authority. Constitution of India has established Democratic Republic and democracy requires an informed citizenry and transparency of information, which are vital to its functioning. MCF expedited to provide certain information to citizens of India who desired it.

4. CELEBRATION'S (DIVAS):-

4.1 Bharat Ratna Dr. Bhim Rao Ambedkar Jayanti.

113th Birth Anniversary of Bharat Ratna Dr. Bhim Rao Ambedkar was celebrated on 15.04.2022 at GM Conference Hall, MCF/RBL. On this occasion, speakers paid tribute to Dr. B.R. Ambedkar remembered his contribution to the society and the nation.



4.2 World Environment Day

“World Environment Day” was celebrated at MCF/RBL on 05.06.2022. On this occasion for the purpose of environmental awareness, Different kinds of trees were planted in Workshop and Township premises Eco park near Saraswati auditorium pound MCF/RBL.



4.3 7th International Yoga Day

International Yoga Day was celebrated on 21.06.2022 in which a yoga camp was organised in Indoor Stadium. A total 215 officers, staff and their families participated and practiced yoga and pranayam under guidance of a trained yoga Instructor Sh. Visheshvar Prasad as per protocol issued by Ministry of AYUSH.



4.4 Independence Day

76th Independence Day was celebrated on 15th August 2022 in a befitting manner. National flag was hoisted by Sh. S. S. Kalsi, General Manager MCF/RBL. Parade, Cultural Programme and Award Distribution Ceremony was presented in front of Saraswati Auditorium MCF. Live streaming of Independence Day Programme was done through Youtube. On the occasion of Independence Day, MCF's administrative office, complex, Colony gates, Rest Houses were decorated with colourful lights which gave an enchanting view of the night.



4.5 Rajabhasa Pakhwada

Rajabhasa Pakhwada Organised from 19th September to 24th September 2022. On this occasion various programs were organised like Hindi Quiz competition, essay writing competition, Poetry seminar etc. also a meeting was conducted to promote Hindi in day to day work.



4.6 Swachhta Pakhwada

“Swachhta Pakhwada-2022” was organized from 16.09.2022 to 02.10.2022 at Modern Coach Factory. On this Massive Drive various programs were organised like cleanness drive, plantation, Swachhata pledge etc. On 24.09.2022, under the leadership of General Manager Sh. S. S. Kalsi, to make the Swachh Bharat Mission program more effective, he gave the message of cleanliness by doing Shramdaan in the MCF factory premises. On this occasion, all the senior HOD and officers, employees and sanitation workers of MCF donated Shramdaan.



4.7 National Unity Day

On 31 October, the birth anniversary of “Sardar Vallabh bhai Patel”, the architect of national integration, is being celebrated in MCF with great enthusiasm as "National Unity Day". Following the guidelines issued by the Ministry of Railways, the oath was administered by the General Manager MCF/RBL along with all the officers and staff. Members took oath of "National Integration". March-past was also organized by the Railway Protection Force to strengthen the spirit of unity, integrity and security at MCF.



4.8 43th AIR Women's Volleyball Championship-2022.

43th AIR women's Volleyball Championship-2022 is being organized from 12.11.2022 to 16.11.2022 at Gomti Indoor Stadium, MCF. The championship was inaugurated by Sh. B. M Agrawal, General Manager/MCF. In order to increase sportsmanship among the employees, the General Manager said that as education is needed in our life, sports are equally needed. Playing sports is our nature, not only physically and mentally healthy rather, it also makes us an alert and disciplined citizen.



4.9 Constitution Day

On the Occasion of 73rd anniversary of the Constitution of India on 26th November, the President recited the "Preamble" of the Constitution through video conference. Simultaneously, the "Preamble" of the Constitution was recited by the General Manager, Sh. S.S. Kalsi and the officers and employees of the MCF recited the "Preamble" of the Constitution at their workplace itself. Apart from this, a picture display on the important contribution made by great men in the making of the Indian Constitution was installed in the administrative building. In this exhibition, the officers, employees, women and children of MCF participated and got information about the "Objective" and "Fundamental Duties" of the Constitution as well as information related to the struggles, efficiency and important contribution of the makers of the Constitution.



4.10 Mahaparinirvan Divas

The 67th Mahaparinirvan Divas of Bharat Ratna Dr. Bhimrao Ambedkar was organized in MCF on 06 Dec. 2022. The program was inaugurated by MCF General Manager by garlanding and lighting candles. After this, tributes were paid by the officers and employees of MCF.



4.11 Republic Day

74th Republic Day was celebrated on 26.01.2023 in MCF campus with full enthusiasm. The flag was hoisted by General Manager Sh S.S. Kalsi. Parade was performed by RPF, in which platoons of Uttar Pradesh Kalyan Nigam Limited and Northern Railway Bharat Scouts & Guides District MCF/Rae Bareilly etc participated. On this occasion, a colourful program was organized by the cultural organization in which songs, group songs and dance were presented. On the occasion of Republic Day, MCF's administrative office, complex, Colony gates, Rest Houses were decorated with colourful lights which gave an enchanting view of the night.



4.12 First Bharat Gaurav Tourist Train

Bharat Gaurav train is the dream project of Hon'ble Prime Minister. To make it a reality, Modern Coach Factory, Raebareli is manufacturing five rakes of Bharat Gaurav train, each rake having 14-14 coaches. These trains have been fitted with various safety and security equipment such as CCTV cameras in sleepers, passenger alert system, special snacks table to make the journey comfortable and safe. Other facilities include Showers for bathing, Kitchen appliances with special electrical applications, Prayer rooms, 03 western-style and 01 Indian-style toilet in each coach. The outer surfaces of the coaches of the Bharat Gaurav train have been covered by decorated vinyl coating depicting Indian culture, architectures, monuments, dance forms, martial arts, fauna, yoga and local arts. With the operation of these trains, campaigns like "Dekho Apna Desh" or "Incredible India" will get a boost.

The first Bharat Gaurav tourist train was furnished at MCF on 31.03.2023. In this newly constructed tourist train, work of interior decoration and others facilities inspected by GM MCF Sh. P. K. Mishra. The first rake was handed over to North Eastern Railway on 3rd April, and flagged off as Guru Kripa Yatra train from Lucknow on 5th April 2023.



4.13 66th General Manager Rail Week Awards

The 66th General Manager Rail Week Awards were distributed by the General Manager Sh. S.S. Kalsi the Saraswati Auditorium of Modern Coach Factory. A total of 189 employees and officers were given general manager level awards including 75 singles and 114 group awards in 18 groups.



4.14 66th Pharmacist national training program at MCF



4.15 Hockey stadium rename as Rani's Girl Hockey Turf at MCF :

On the occasion of the 80th All India Railway Hockey Men's Championship 2023, the name of the hockey stadium built in the MCF dedicated to all the women players of the Indian Women's Hockey Team, who performed excellent in the Tokyo Olympics 2020. To honor the contribution made, the Rani's Girls Hockey Turf was named after players of Indian Women Hockey Team.



5.0 SEMINAR:-

5.1 Vigilance Awareness Week

The Vigilance Awareness week, 2021 was observed at Modern Coach Factory, Raebareli from 31.10.2022 to 06.11.2022 as per directives issued by Railway Board. The main theme of this year's Vigilance Awareness Week was "corruption free India for developed nation". Various activities conducted during this week like Vigilance pledge in administrative building & workshops premises, pamphlets, posters and hoarding exhibiting anti-corruption themes were distributed and displayed at prominent places in admin building, schools, workshop and township premises.



6.0 VISITS:-

6.1 Visit of MTRS Railway Board-

Sh. D.C. Sharma Member (traction & Rolling Stock) Railway Board visited MCF/RBL on 30.04.2022.



6.2 Visit of CMD RITE'S-

- Sh. Rahul Mithal CMD RITE'S Visited MCF/RBL on dated 19.05.2022.



6.3 Visit of Minister of Bangladesh Railways:

Mr. Nurul Islam Sujan, honourable Railways minister of Bangladesh visited MCF/RBL on 30.05.2022.



6.4 Visit of Senegal delegation :

Mr. Mayacin camara, Secretary of state incharge Senegal Railways visited MCF/RBL on 09.06.2022.



6.5 Visit of Minister of Railways, Communication, Electronic and IT:

Sh. Ashwini Vaishnaw, honourable Minister of Railways, Communication, Electronic and Information & technology visited MCF/RBL on 05.11.2022. The General manager of MCF Sh. S.S. Kalsi gave the information about different types of coach manufacturing technology.



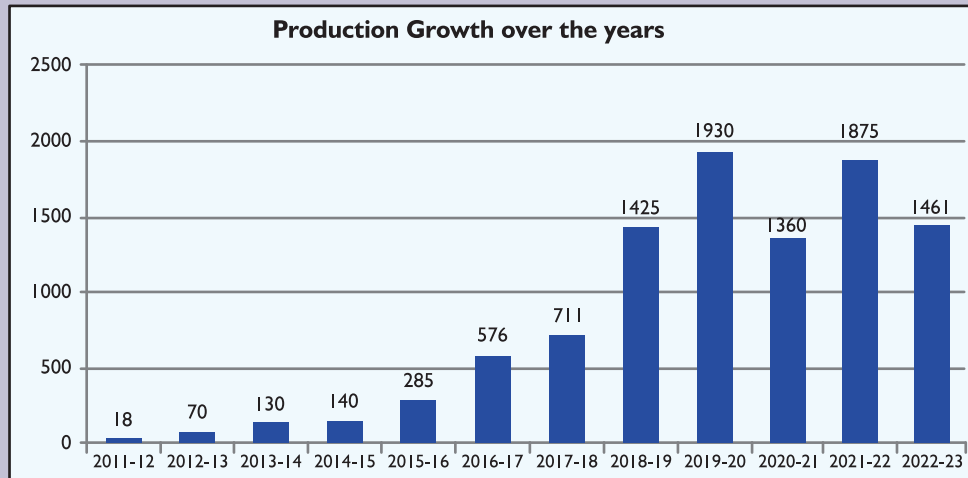
6.6 Visit of DG/ Safety Railway Board:

Director General/ Safety Sh. Braj Mohan Agrawal, visited MCF on 06.01.2023.



PRODUCTION

I. Furnishing Shop:



I.1 Production Performance :-

Coach Variants	RB Target FY (2022-23)	Coach Out turn											Cum. Outturn (FY 2022-23) -	
		Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sept-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23		Mar-23
LWACCN	450	32	25	49	65	55	81	18	25	23	28	22	12	435
LWACCN/E	413	1	0	4	0	2	3	31	27	53	49	84	146	400
LWACCW (2T)	64	0	0	0	0	29	6	0	0	2	12	10	6	65
LWSCN	200	9	16	12	10	23	7	30	6	27	17	13	0	170
LWS/DDG	138	0	0	0	0	0	0	15	4	0	0	20	27	66
LPC/B Van	95	1	9	5	5	0	8	8	3	4	8	6	10	67
LWSDDAC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FAC	20	0	0	0	0	0	0	0	0	0	2	0	0	2
LVPH	50	0	0	0	0	0	9	16	11	11	3	0	10	60
LSLRD	60	14	13	14	6	0	0	13	0	0	0	1	0	61
LWCBAC	15	9	0	0	0	0	1	1	0	0	1	1	0	13
LWSCZ	0	5	12	17	15	0	5	0	0	0	0	0	0	54
LWSCZAC	0	0	1	0	0	0	7	0	0	0	0	2	1	11
LWFAC	20	0	0	0	0	0	0	0	0	0	0	0	0	0
MEMU MC	64	0	0	0	0	0	0	0	0	0	0	0	0	0
MEMU TC		0	0	0	0	0	0	0	0	0	0	0	0	0
LWACCN/TEJ (3T)	110	0	0	0	0	0	8	2	2	0	0	0	0	12
LWACCW/TEJ (2T)		2	0	0	0	0	3	0	2	0	0	0	0	7
LWCBAC/TEJ		1	0	0	0	0	0	2	0	0	0	0	0	3
LPC/TEJ		0	0	0	2	0	0	4	0	0	0	0	0	6
LWFAC/TEJ		0	0	0	0	0	2	0	0	0	0	0	0	2
TRC	14	0	0	0	0	0	0	0	0	0	0	0	0	0
TIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NRC	0	2	4	4	7	2	0	1	0	0	3	1	3	27
TRAIN SET	32	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	1745	76	80	105	110	111	140	141	80	120	123	160	215	1461

I.2 Good work done:-

- i) Total 1461 Coaches were manufactured in FY 2022-23 with Highest 215 Coaches in March-2023.
- ii) 27 Coaches of cape gage 'loco hauled' and 'DEMU rake' for Mozambique Railway were also produced during the year, this establishing MCF as an exporter on the Global Market.
- iii) 1st Rake of Bharat Gaurav Train was manufactured in 31st March-2023 for NER.

I.3 Scrap disposal:- FY 2022-2023

Type of scrap	Weight (in kg)
Aluminium scrap	24550
SS scrap	48275
MS scrap	33295
Total scrap	106120.0 (approx 106 tons)

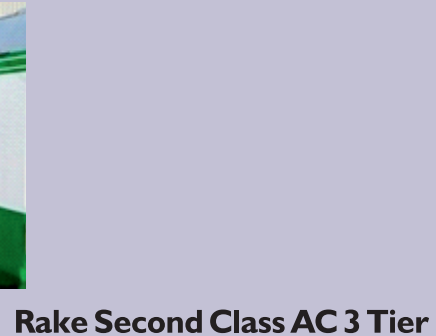
I.4 Cape Gauge Mozambique Railway Passenger Coaches (Export):



DEMU Rake



Loco Hauled



Rake Second Class AC 3 Tier

Dispatch date of Loco Hauled & DEMU rake coaches exported from MCF to Mozambique Railways

S.N	Rake Number	MCF Dispatch Date
Loco Hauled coaches (Total 60 Coaches)		
1.	First rake (12 Coaches)	14.10.2021
2.	Second rake (12 Coaches)	04.02.2022
3.	Third rake (10 Coaches)	22.04.2022
4.	Fourth rake	
	1 st lot (05 Coaches)	19.08.2022
	2 nd lot (05 Coaches)	07.01.2023
	3 rd lot (05 Coaches)	25.01.2023
5.	Fifth rake	
	1 st lot 05 Coaches	04.03.2023
	2 nd lot 05 Coaches	09.03.2023
	3 rd lot 01 coach	19.03.2023
DEMU Rakes (Total 30 Coaches/5Rakes of 6 car each)		
1.	First rake	12.02.2022
2.	Second rake	22.04.2022
3.	Third rake	22.06.2022
4.	Fourth rake	13.08.2022
5.	Fifth rake	01.11.2022

2. Paint Shop:

2.1. PERFORMANCE PARAMETERS:-

Out turn of Paint Shop Was 1480 nos. in FY 2022-2023.

S.No.	Month	Out-turn of 2022-2023 (Month Wise)	Mozambique Coach Out Turn	Total Out-turn of 2022-2023 (Month Wise)
1.	April	107	7	114
2.	May	98	4	102
3.	June	89	4	93
4.	July	90	3	93
5.	August	55	0	55
6.	September	106	2	108
7.	October	116	0	116
8.	November	128	2	130
9.	December	170	1	171
10.	January	138	2	140
11.	February	170	4	174
12.	March	184	0	184
Total		1451	29	1480

2.2 Scrap Disposal:-

S.No.	Description	2022-2023 Qty.
1.	Wooden scrap from carpentry shop	1,23,055 kgs.

a) Disposal of Carpentry scrap Shop-

S.No.	Description	2022-2023
1.	Empty containers 0.5-to 5 ltrs.	11,400 kgs.
2.	Empty drums 20 litrs capacity	9,483 Nos.
3.	Empty drums 200 litrs. capacity	21 Nos.

b) Disposal of Empty drums from paint shop and Yard:-

S.No.	Description	2022-2023
1.	Hazardous waste generated from paint sluge, paint scoop etc.	17,880 kgs.

c) Disposal of Hazardous waste from paint shop:-

2.3 New Development:-

1. Erection and installation of one new paint Booth and Drying oven in paint shop is completed and prove out certificate issued.
2. Painting work of newly introduced MEMU & Bharat Gaurav coaches has been done in F.Y. 2022-23.
3. First time LWACCN(E) coaches have been furnished, and shop made items for ACCNE coaches have been made ready in Carpentry Shop.
4. Linen rooms have been modified for LWACCN (Tejas) & LWACCW (Tejas) coaches by Carpentry Shop which has led into more luggage area in linen room.

2.4 Main achievements of 2022-23:-

1. Commissioning of 01 no. new paint booth & drying oven was completed in FY 2022-23.
2. Successful painting of Mozambique Railway coaches done by paint shop and 29 Mozambique coaches were painted.
3. Successful painting of newly introduced 1st Rake MEMU & Bharat Gaurav type shell done by Paint shop.

3. Shell Shop:

3.1 Variant-wise coach breakup:

S.N	Coach Type	Quantity
1	3 Ph MC NAC	2
2	3 Ph TC NAC	6
3	LS/DDG	59
4	LSLRD	84
5	LWACCN	344
6	LWACCNE	478
7	LWACCW	101
8	LWCBAC	13
9	LWFAC	2
10	LWFAC Tej as	2
11	LWCBAC Tej as	0
12	LWACCW Tej as	3
13	LWACCN Tej as	4
14	LWLRRM Tej as	7
15	LWFCWAC	1
16	LWLRRM/B.VAN	81
17	LWSCN	221
18	LWSCZ	4
19	VP LHB	63
20	NRC (Mozambique)	27
Total		1502

3.2 Monthly Performance:

S.N	Month	Shell Fabrication
1	Apr-22	126
2	May-22	116
3	Jun-22	104
4	Jul-22	108
5	Aug-22	68
6	Sep-22	102
7	Oct-22	121
8	Nov-22	121
9	Dec-22	141
10	Jan-23	148
11	Feb-23	162
12	Mar-23	185
Total		1502*

* 27 Mozambique Shells are included.

3.3 Production performance:

S.N	Production of Description/ Item	Production of Assembly and Sub Assembly in FY 2022-23	Highest produced in a month i.e.
1	Shell	1475	182
2	Mozambique Shell	27	4
3	Sidewall	1018	125
4	Under frame	1103	138
5	Roof	831	104

4. Scrap Disposal Month wise:

S.N	Month	Weight (In Ton)
1	Apr-22	34.815
2	May-22	108.87
3	Jun-22	74.62
4	Jul-22	50.325
5	Aug-22	14.105
6	Sep-22	8.885
7	Oct-22	29.81
8	Nov-22	43.2
9	Dec-22	72.94
10	Jan-23	36.875
11	Feb-23	95.55
12	Mar-23	46.515
Total		616.51

5. Other Innovative Work performed during the Year:

S.N	Description
1	CRF type components like Sole Bar, Roof Sheeting, Trough Floor, Roof Flange, Connecting Sheet used for shell manufacturing.
2	Less noise modification of under frame in LWLRRM.
3	Under frame FIBA modification work.
4	Side wall modification for low noise alteration.
5	Dog Box with new design has been successfully manufactured in LWLRRM and LSLRD.
6	First Bharat Gaurav shell manufactured in shell shop and handed over to paint shop.

(A) Sheet Metal shop:

(a) Design and developed by Sheet Metal Shop:



1 Innovation of Roof Arch off cuts pallet

Design, development and fabrication by SSE/SMS.

1. Stacking properly
2. Reduce stacking area.
3. Proper utilization of floor area.



2. Innovation of Laser Skelton pallet

Design development and fabrication by SSE/SMS.

1. Stacking properly
2. Reduce stacking area.
3. Proper utilization of floor area.



3 Innovation of small finished components pallet

Design development and fabrication by SSE/SMS.

1. Stacking properly.
2. Reduce stacking area.
3. Proper utilization of floor area.
4. Reduce mixing of components.
5. Reduce damage of components.

4 Innovation of Roof arch pallet

Design development and fabrication by SSE/SMS.




1. Stacking properly.
2. Reduce stacking area.
3. Proper utilization of floor area.
4. Reduce damage of components.

(b) Achievements of SMS:

S.N.	Year	Total Delivered Qty. (M T)	Total sale value(Rs)
1. Total Wooden Scrap Dispose			
1	01.04.2022 to 31.03.2023	2277.525	14131570
2. Total Low value scrap dispose			
1	01.04.2022 to 31.03.2023	316.155	3472854
3. Total zero value scrap dispose			
1	21.01.2023 to 31.03.2023	535.98	821456
4. Scrap dispose value of SSF			
1	01.04.2022 to 31.03.2023	601.655	55953915
5. Scrap dispose value of CS			
1	01.04.2022 to 31.03.2023	125.595	5149395
6. Scrap dispose value of SSA			
1	01.04.2022 to 31.03.2023	68.21	1111823
7. Scrap disposal value of Ferrous packing sheet			
1	01.04.2022 to 31.03.2023	29.54	1033900
8. Off cut utilization value dispose			
1	01.04.2022 to 31.03.2023	141.101	25334325
9. B.O Items of components			
1	01.04.2022 to 31.03.2023	157.793	28085419
10. B.O items of Fabrication			
1	01.04.2022 to 31.03.2023	164.145	30312662
S.N. Innovation of Sheet Metal Shop in F.Y 2022 –2023			
1	Innovation of trough floor (Design and modification of trough floor Drg. No. LE11157, LE11158 in single Piece, laser profile cutting and welding cost saving for 1000 C/S, Rs.1155270 per year.)		
2	Innovation of roof arch off cuts pallet.		
3	Innovation of Laser skelton pallet.		
4	Innovation of small finished component pallet.		
5	Innovation of Roof arch pallet.		


(C) Tool Room Shop:

The initiatives/innovations and achievements of Tool Room during the F.Y. 2022-23 are as under:

01	 <p>Testing Stand for MEMU Traction Motor</p>	<p>01 Set of Testing Stand for MEMU Traction motor has been manufactured in Tool Room</p>	<p>Heat and Run Test of MEMU traction motor can be in static condition in shop floor.</p>
02	 <p>Modified Welding Jig for MEMU Shell, Vande Bharat Shell & LHB Shell</p>	<p>The MEMU Shell Jig-1 (converted/modified into Vande Bharat Shell Jig) has been further converted into LHB Shell Jig by Tool Room.</p>	<p>Fabrication of Vande Bharat Coach Shell, MEMU Coach Shell and LHB Coach Shell can be done on this Jig by doing slight modification.</p>
03	 <p>Modified Welding Jig for MEMU Shell & LHB Shell</p>	<p>MEMU Shell Jig-2 has been converted into LHB Shell Jig by Tool Room.</p>	<p>Fabrication of MEMU Coach Shell and LHB Coach Shell can be done on the Jig by doing slight modification.</p>

(D) Roof Section:

The achievements of Roof Section during the FY- 2022-23 are as under-

S.N.	Achievements	
1.	<p>Total 831 roofs were manufactured in F.Y. 2022-23 with highest production of roofs in the month of JAN-2023 – 104 roofs.</p>	
		<p>Earlier: Red oxide primer mixed with kerosene oil was used for roof leakage testing. It was not so effective in ensuring roof leakage.</p> <p>Present:</p> <ul style="list-style-type: none"> • Dye Penetrate Test (DPT) is being done to ensure no leakage in roof. • This will increase the availability of coaches on account of less chances of water leakage.

(E) Housekeeping Section:

The achievements of Housekeeping Section during the F.Y. 2022-23 are as under:

S.N.	Year	Description	Qty. (MT)	Sale Value
1.	2022-2023	Wood Scrap	2277.525	1,41,31,570
2.		Low Value Scrap	316.155	34,72,854
3.		Zero Value Scrap	536.010	8,21,517
Grand Total			3129.690	1,84,25,941

4. Wheel Shop:

(a) Total Production: 1583 C/s


S.N.	Wheel Set Type	Out turn (in C/s)
1.	LHB Wheel Sets	1564
2.	Mozambique Wheel Sets	7.75
3.	MEMU Wheel Sets	11.25





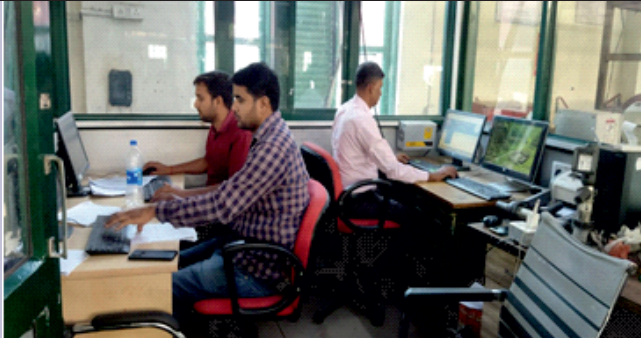
5. Bogie Shop:

(a) Total Production: 1558.5 C/s

S.N.	Bogie Type	Out turn (in C/s)
1.	Coil Type	192
2.	Air Type 120 KN	543
3.	Air Type 140 KN	301.5
4.	Air Type 160 KN	522

The following achievements have been done by Bogie Shop and Wheel Shop during the current F.Y. 2022-23:

S.N.	Description	Achievements
1.		<p>The fabrication of sub assemblies which are required for the Bogie Frame has been started in-house since November 2022 using available scrap generated of Corten Steel from the Component section. This will ensure approximate savings to the tune of Rs. 1,58,41,757.83 annually.</p>

<p>2.</p>		<p>In the financial year 2022 - 23 bogie assembly section of Modern Coach Factory, Raebareli has inspected and cleared 43.5 Bogies of Loco Hauled and DEMU coaches of Mozambique through BVI (Noida) and finally handed over to RITES for dispatch to CFM Mozambique.</p>
<p>3.</p>		<p>Highest ever monthly production of Bogies in January 2023, Total no. Bogies out -turn in coach set being 256.</p>
<p>4</p>		<p>As an exercise to address cracks and large scale failure of Control Arm bracket, Dye Penetration Test of Control Arm bracket is being done. This has led to failures being reduced to zero.</p>
<p>5.</p>	 <p style="text-align: center;">Before Shot Blasting After Shot Blasting</p>	<p>Shot blasting of small components have led to identification of defects like blow holes before fabrication and there by better quality is ensured.</p>
<p>6</p>		<p>Digitalized generation of Rolling Stock Certificate and online feeding of Bogie and Wheel data.</p>

DESIGN

Activities undertaken by Mechanical Design office during the year 2022-23 (up-to 31st March, 2023) have been listed in two heads.

1. New coach variants
2. Various design improvements

I. New coach variants:

I.1 Mozambique Railway Cape gauge Coaches:

S.No.	Item	Description
1.1	Name of work done	Manufacture and Supply of Cape Gauge Passenger Coaches to Mozambique Railways.
	Summary	<p>MCF is executing its first export order to Mozambique Railways through RITES (the nominated agency for dealing export orders on behalf of IR). The order consists of Cape Gauge (1067mm) coaches -60 loco hauled and 30 DEMU coaches (05 rakes). The breakup of the variants to be exported are as under:</p> <p>Loco Hauled Coaches (60 Coaches):</p> <p>1st Class AC 2 Tier -06 nos., 2nd Class AC 3 Tier -12 nos., 2nd Class AC sitting Coach -10 nos., Non-AC 3rd Class General -20 nos., Power Car -04 nos., AC Restaurant Car-04 nos. & Luggage Van-04 nos.)</p> <ul style="list-style-type: none"> ➤ 60 coaches dispatched ➤ 49 coaches are in service <p>DEMU Rake (05 Rakes i.e. 30 coaches) :05 DPC, 05 DTC & 20 TC</p> <ul style="list-style-type: none"> ➤ 5 rakes dispatched and are in service
	Impacts/Benefits	<ul style="list-style-type: none"> • Further confirmed orders (Mozambique): 10 nos. 2nd Class AC sitting Coaches. POs placed for shell, furnishing and bogie. <ul style="list-style-type: none"> ➤ Further orders for three power cars is under process. ➤ Further two rakes of DEMU against LOC is under process. • Inquires being sought from Worldwide Railway Networks for Rolling stocks – Zimbabwe (5 rakes DEMU), Bangladesh (200 BG coaches) and Senegal.

Salient Features

Loco hauled Coaches:

- Corrosion Free Coach
- Undulation free Stainless steel car body based on LHB platform
- Light Weight Coach
- Interlocked Shell
- CBC with Anti climbing feature
- Y-frame bogie with superior ride quality
- Fire suppression system in Generator car
- Fire alarm system in other coaches
- Passenger Address System (PAS) which keeps the passengers informed about the travel status
- Better Acoustic and Vibration Measures

DEMU Rake:

- 1800 HP DEMU Rake of 6 Coaches
- Rake formation: DPC-TC-TC-TC-TC-DTC
- ICF Type Bogies
- Semi Permanent Coupler Between DTC-TC & TC-DPC, AAR H Type CBC between TCs
- Dust Sealed Gangway
- Fire suppression system in Driver Motor Car

2nd Class AC sitting Coach

- Seating Capacity: 56
- Floor Board: Sound insulation Floor Board (Cork- Sandwich Board)
- Interior Panelling : Fibre Reinforced Polymer,
- Seats and Berths: Cushioning material PU Foam + Fire barrier cloth + superior quality upholstery.
- Windows: Sealed window glass
- Hinged type entrance Doors, Sliding type vestibule doors
- FRP Modular lavatory equipped with modern fittings.
- LED Lightings
- Public address and Passenger Information system
- Automatic Smoke/Fire detection with alarm system
- Anti-climbing feature: Fitted with AAR H Tight lock Centre Buffer Coupler



AC Economy Coaches:

Item	Description
Name of work done	LHB AC 3 Tier Economy Class LWACCNE Coach
Summary	These coaches are equipped with latest features providing comfort and safety to passengers, On board monitoring for maintenance staff and higherspeeds. Total of 400 AC 3 Tier economy coaches manufactured during FY 2022 -23.
Salient Features	<p>The brief details of upgraded features are as under:</p> <ul style="list-style-type: none"> • More passenger carrying capacity of 80 Nos. compared to 69 in existing ICF design Economy AC 3 Tier Coach & 72 in LHB AC -3T coach. • Application of anti-graffiti coating for clean and user-friendly toilets. • Aesthetically better interior paneling and moulding. • Aesthetically designed, light weight, durable and EN -45545-2 complied seats & berths. • Individual adjustable air conditioning vent opening on each berth • Under slung mounted Switch Board Cabinet • Pressurized flushing system in Toilets. • World class passenger amenities items like glass holder, snack tables, ladders, luggage racks, cabin mirror, toilet fittings, taps etc. • Provision of LED type Luminaries with better aesthetics.




I.3Bharat Gaurav Rakes:

S. No.	Item	Description
2.0	Name of work done	Bharat Gaurav Rakes for IRCTC
	Summary	IRCTC has demanded for 70 LHB Coaches (05 rakes of 14 coach each) (5 Variants viz. AC 2 Tier -1, AC 3 Tier-7, Power Car-10, AC Hot Buffet -5, Non AC Sleeper Coaches - 47) with additional features. 1 Rake dispatched to IRCTC.
	Salient Features	The brief details of upgraded features are as under: <ul style="list-style-type: none"> • Lavatories: Three Western Style and one Indian style <ul style="list-style-type: none"> ➢ Each lavatory having one telescopic shower, one soap dish, one hand rail, one health faucet, corner washbasin with integrated type dust bin to provide space for bathing, with 3M matting • Roller blinds (MDTS 078 Rev-03 with latest amendments) shall be provided in each window in the AC area • Standalone CCTV system, End couplers provided for future expansion for centralized monitoring • One Non AC Sleeper coach of each rake shall have prayer room. • LWSCN with honeycomb partition frame, sidewall paneling with DGFRP and ceiling with GFRE. • These coaches are provided with exterior vinyl, the scheme approved by IRCTC.




I.43 Phase MEMU with on Board equipments for 110 kmph:

Item	Description
Name of work done	Manufacture of 3 Phase MEMU rakes (Rake composition: DM01 + TC-06 + DMC-01)
Summary	<p>As per Production Program of FY 2023 -24 MCF has to manufacture 08 MEMU rakes having speed potential of 110 kmph. These will be with On Board electrical equipments.</p> <ul style="list-style-type: none"> ➤ Shells of 1st rake manufactured and furnishing is being taken up. ➤ Propulsion orders : M/s BHEL (8 Rakes) ➤ Wheel set assembly is being done by Charbagh workshop. ➤ Bogie Order-M/s Ved Sasso and M/s EC Blade.
Detailed Description	<p>Salient features are as under:</p> <ul style="list-style-type: none"> • 25% powering (i.e. 01 motor coach with 03 Trailer coach) • Maximum service speed will be 110 Kmph. • ICF type bogie. • Axle Load Capacity: <ul style="list-style-type: none"> ✓ In DMC Coaches: 20 Tonnes ✓ In TC Coaches: 20 Tonnes. • Stainless steel ICF type shell. • Furnishing items: Similar to ICF MEMU coaches - Stainless steel coach interiors with amenities for passengers. • Seating Capacity: <ul style="list-style-type: none"> ✓ DMC: Seat= 55, Standing= 171 ✓ TC: Seat= 84, Standing= 241 • Electro pneumatic (EP) brake system. • Manual type Sliding doors • Semi permanent Schaku coupler. • Traction motor: Axle hung nose suspended 3 phase asynchronous type of traction motor suitable for IGBT converter.
	

2. Design Improvements:

2.1 Design of Stainless Steel AC trough:

Item	Description
Name of work done	Design developed for Stainless Steel AC Trough in order to prevent the cases of leakages through FRP AC Trough.
Impact/Benefits	<ul style="list-style-type: none"> • This will eliminate the problem of leakage that are reported through FRP trough. • Design advised for most of the variants. • Cut-in from April'23 • Prototype fitted in power car- 09.12.2022
	

2.2 GS and SCN with FRP panel's prototype:

Item	Description
Name of work done	Standardization of panelling material over LHB coach variants.
Impact/Benefits	<ul style="list-style-type: none"> • In line with AC coaches GS and SCN coaches will be provided with FRP panelling. • PO has been placed. • Prototype done in GS coach.

2.3 Provision of Linen Space in Tejas Coaches:

Item	Description
Name of work done	Provision of linen space in Tejas coaches in line with existing Rajdhani Rakes.
Details	<ul style="list-style-type: none"> • Additional Linen space is created by providing split type SBC in Tejas rake coaches.

Planning

1. Shell Planning:

- Planning of new Variant of LWACCNE coaches has been done with 80 berths (as advised by Design) for 1193 coaches for the FY 2022-23 & 2023-24.
- Reduction of PL has been done after procuring higher level assembly/ clubbing similar items. PL has been reduced from 307 to 231 for Shell items.
- CAI implementation in LHB coaches has done as detailed below:-
 - a) Provision of Dog Box in LHB Power car coaches.
 - b) Provision of SS Trough in place of FRP Trough in all LHB AC coaches from FY 2023-24.
 - c) Provision of Mounting Bracket for smaller Switch Board Cabinet in LHB coaches.
- PL Stocking has been done for Vande Bharat train sets and LWACCNE in very short span of time.

2. Bogie Planning:

- Procurement of bogie item in KIT to reduce the tender case & easy availability of items.
- Stocking of MEMU & VANDE BHARAT item, procurements of VANDE BHARAT item after stocking.
- To control inventory, excess items are spared to Zonal Railways as per their requirements.
- Provide complete bogie & wheel set to zonal railways under RSP & IRSP.
- 100% switch over in air spring type bogie as per Railway Board guideline.
- Implementation of CAI regarding FIBA.

3. Furnishing Planning:

- Material planning of furnishing items of Bharat Gaurav Train in very short span of time against the RB Target of 5 Rakes (70 coaches) allotted to MCF in the FY 2022-23 & 2023-24.
- Material planning of furnishing items of 14 C/s of TRC and TRSC coaches on Works contract in the FY 2022-23 & 2023-24 which was earlier on Turnkey contract.
- Initially, coverage of 558 coach sets of LWACCNE coaches with 83 berths was done against the Railway Board Target in the FY 2022-23 on Turnkey Contract. The same was modified to 80 berths per RB advice with Revised Layout for which further coverage has been done against the RB Target of 1193 coach sets on Turnkey Contract for the FY 2022-23 & 2023-24.
- Reduction of PL has been done for coaches manufactured through works and turnkey & works contract by clubbing the similar items as single item (Set) as per RB guidelines.
- Comparative study of furnishing items procured at RCF & MCF for review of variation with the design/specification/drawing description/eligibility etc. of the subject items.
- CAI Implementation in LHB Coaches manufactured/Bogie fabrication with Double ferrule FIBA fittings.
- Provision of Two Indian and Two Western type lavatory implemented in AC/ Non AC reserved coaches. Provision of One Western type lavatory is also implemented in all Non AC unreserved coaches.
- Provision of FRP Panel in Roof Ceiling and Side Wall in place of GFRE roof Ceiling Panel and DGFRP Side Wall Panel in LWSDD and LWSCN coaches.

4. Process Planning & RSP:

- Production plan for material planning, work contract and turnkey projects.
- Issuing of batch wise work order for regular production of coaches as per internal production plan.
- Issuing of special work order for in-house manufacturing of trade failure/ critical items.
- Monitoring and ensuring availability of variants/rake wise coach allotment on CMM portal for dispatch of manufactured coaches to various Railway divisions as per advice and priority set from Railway Board.
- Study, draft and issuing of work instructions for variant LHB coaches.
- To provide the material assistance to Zonal Rly./PU's/Divisions/Coaching depots as per their requirement.
- Monitoring of variant/rake wise coach manufacturing for dispatch to various division/Zonal Railways as per defined priority.
- Maintain the status of supplied RSP Bogies along with other RSP work as per allotment given by 'Railway Board'. The current status (Till FY: 2022-23) of RSP work is tabulated below:

SN	Name of Work	RSP P.B. No.	Sanction Year	Sanctioned Cost (Rs)	Qty. Completed	Remark/Balance
Bulk RSP Status of Bogie & Wheel set						
1	Complete assemble FIAT Bogies I40 KN (160 nos.)	547/23 - 24, 1246/18-19	2018 - 19	480000000	140	20 Bogies
2	Complete assemble FIAT Bogies 140 KN (408 nos.)	566/23-24, 733/19 - 20	2019 - 20	1224000000	377	31 Bogies
3	Complete assemble FIAT Bogies (125 nos.)	618/23 - 24, 1335/20 -21	2020 - 21	375000000	124	01 Bogie
4	160KN Air Spring Bogie@ 30Lacs (550 Nos.)	681/23 - 24, 1265/22-23	2022 - 23	1650000000	98	452 Bogies
5	Wheel sets (340 nos.) @ 5.0lac	575/23 -24, 1219/19 -20	2019 - 20	170000000	173	167 Nos.
6	Wheel sets (218 nos.) @4.25lac	664/23 - 24, 1309/21 - 22	2021-22	92650000	0	218 Nos.
7	Wheel sets (254 nos.) @4.25lac	682/23 - 24, 1266/22 -23	2022 -23	107950000	0	254 Nos.
Bulk RSP Status excluding Bogie & Wheel set						
8	Split type Air Brake Discs (1600 Nos.)	578/23 - 24, 1222/19 - 20	2019 - 20	112000000	0	1600 nos.
9	Split type Air Brake Discs (5000 Nos.)	665/23 - 24, 1310/21 - 22	2021 - 22	350000000	0	5000 nos.
10	Smart Coach (100 Coaches)	471/23 - 24, 631/18 - 19	2018 - 19	159182000	98	02 coach
11	Provision of Smart features in newly manufactured LHB coaches @ Rs. 16 lacs (30 coaches)	619/23 - 24, 1336/20 - 21	2020 - 21	48000000	0	30 Coach
12	Bio degradable, oleo phobic & hydrophobic paintings for 500 LHB coaches @2.95 Lakh	633/23 - 24, 1350/20 - 21	2020 - 21	147500000	0	500 Coach
13	Toilet up gradation (100 Coach)	508/23 - 24, 1246/17 - 18	2017 - 18	25000000	76	24 Coach
14	Provision of GPS based PAS/PIS (50 AC/Non - AC coaches)	540/23 - 24, 1239/18 - 19	2018 - 19	22550000	0	50 Coach
15	Upgraded interiors in newly manufactured	535/23 - 24, 1231/18 - 19	2018 - 19	3000000000	0	1000 Coach
16	Mfg. of 500 Aluminium Bodied coaches @ Rs. 2.5 bcrores per coach	573/23 - 24, 1215/19 - 20	2019 - 20	12500000000	0	500 Coach

5. Other work of planning department:

- An exercise was conducted with CRIS, New Delhi on AIMS module where coach costing related issues were identified (labour and material booking reports) and corrective action was taken where ever issues/discrepancies were found. This not only reduced the manpower effort but also helped in capturing more realistic coach cost of coaches produced at MCF.
- Preparation of costing proposal for IRCTC's Bharat Gaurav Trains (BGT) and 1st time costing of LWSCZAC coaches.
- Preparation of summarized revised estimate & final modification estimate for FY 2022-23 and budget estimate for 2023-24 under PH-7200 has been done on the basis of estimate received from different deptt/sections of MCF and coach costing & Earning estimates.
- Distribution of Budget grant 2022-23 under PH-7200 among different deptt/sections of MCF has been done.
- T&P (Dead Stock) items identified in planning office and posted in T&P Register. Old record of T&P items was also reviewed.
- External Audit of IMS and ISO:22163 has done in planning office without N.C.
- Internal Audit of IMS, ISO:22163 and ISO:3834 in other departments/Shops has been conducted by planning office.
- Recording of timing during Prove out test of KSW Paint Booth and Oven has been done in MCF paint shop.

QUALITY

Furnishing Quality Control:

No. of Coaches Inspected	Audit inspection	Bio Tank Testing	RSC Uploaded
1456 (LHB)	146	1372	1456
57(MOZ)	6	NIL	NIL
Total- 1513	152	1372	1456

- **Activities of furnishing quality control:**
- **Coaches furnished at furnishing & finishing shops are inspected at various stages of flooring & PVC, Window & Ceiling, Partition & Paneling, Moulding & Door, Plumbing, Lavatory and Seat & Berths fitment with Self Inspection (SIP), Quality Control Inspection (QCI), Cross Examination (X-Point) and Final Inspection for ensuring complete quality of Product.**
- **Variant wise details are as under-**
 - DDG- 62 Coaches Inspected.
 - SLRD- 64 Coaches inspected.
 - LHB Power Car LWLRRM- 62 Coaches Inspected.
 - LWACCN- 46 I Coaches Inspected
 - LWACCW- 8 I Coaches Inspected.
 - LSCN & LSCN(G)- 18 I Coaches Inspected.
 - LHB Chair Car SCZ- 63 Coaches Inspected.
 - LHB AC Chair Car SCZAC- 10 Coaches Inspected.
 - VPH- 84 Coaches Inspected.
 - Tejas LWACCN-12, LWACCW(T)-05, FAC-02, LBAC-01, LPC-02, coaches inspected.
 - LBAC- 12 coaches inspected.
 - TRC- 01 coach Inspected.
 - MOZ- 57 Coaches Inspected.
 - FAC- 04 Coaches Inspected.
 - FCWAC- 08 Coaches Inspected.
 - LWACCNE- 34 I coaches Inspected.
- **RSC (Rolling Stock Certificate) is being generated through software named production Monitoring System (PMS) and the same is easily available to concerned railway.**

2. Bogie Quality Control:

No. of bogie frame, bogie bolster and components measured on 3D - CMM	QCI. of bogie frame and bogie bolster	Inspection of bogie assembly load testing
428	376	2439

- **Activities of Bogie Quality Control:**
- Bogie fabricated at bogie assembly inspected thoroughly in accordance with SIP (Self Inspection Proforma) submitted by production.
- Hardware fitment and torque where ever needed and air brake pipe fitting are also checked for correctness.
- Load testing of final bogie assembly is checked.
- After completion of all records & SIP, the complete set of SIP submitted to Quality Centre office for filling in concern coach file for record.
- Bogie RSC prepared and submitted to furnishing quality for uploading.
- Bogie quality has a vital role with production wing for clearing SIP of Mozambique Railway.
- Audit of third party inspection is also conducted.
- Since October– 2022 it is ensured that all bogies are equipped with R3 Spec. hoses as per RDSO specification no CK 407 (Rev.03)/CG –WI-4.2.1-I ver. I.00.
- FIBA modification as per RCF-CAI MD44 I2I dated 17.02.2021 has been implemented 100% since July- 2022.

3. Wheel Quality Control:

S.N.	Nos. of axle measured for seat and roughness values	Nos. of wheel disc measured for bore and roughness Values	Nos. of complete wheel set checked in audit inspection	Nos. of CTRB Checked in audit inspection
1	532	626	2381	2381

- **Activities of wheel quality control:**

- Machining of semi finished axles and wheel discs, pre-fitting of brake discs and complete fitment of machined and bought out components is observed at all stages of integrated wheel and axle assembly line.
- QC has advice to adjust the roughness values of axle seating area during grinding operation and wheel disc bore during boring operation for achieving better interference in pressing operation and also minimize rejection.
- Wheel quality section ensures parameters of complete wheel set as prescribed in drawing such as wheel distance, wheel diameter, axle journal seat, wheel disc and brake disc seats through regular audit basis.
- Special attention for proper fitting of CTRBs with its axial clearance, proper tightening torque of M20X60 mm bolts and application of sealant in backing ring is provided.
- Wheel quality also ensuring work of third party audit inspection by M/s RITES.

4. Shell Quality Control:

- I-AUDIT INSPECTION (Sample checking) Sheet metal shop-

S.N.	Activity Plan	No. of inspection of Assembly
1.	Dimensionally of Sheet metal Components	817

Fabrication shop

S.N.	Activity Plan	No. of inspection of Assembly
1.	Visual and Dimensional inspection of Side wall	197
2.	Visual and Dimensional inspection of Lav. Side wall	379
3.	Visual and Dimensional of Roof	107
4.	Visual and Dimensional of End wall	20
5.	Visual and Dimensional of Under frame.	107

Shell assembly

S.N.	Activity Plan	No. of inspection of Assembly
1.	Undulation of Side wall (shell assembly stage-III)	MCF Shell-578 Mozambique Shell-23
2.	Dimensionally inspection of shell (shell assembly stage-I)	562

2- (100% Inspection):

Shell assembly final inspection

S.N.	Activity Plan	No. of inspection of Assembly
1.	Total shell rollout in paint shop (April-2022 to March-2023)	1471(MCF Shell) 23 Mozambique shell
2.	Inspection of Shell Assembly (QCI)	1429 MCF Shell 23 Mozambique shell
3.	X-point	1457

Activities of Shell Quality Control:

- 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 inspections of Shop made and bought out items (Roof, Side wall, Lav. Side wall, Under Frame, Sheet metal components, Shell assembly stage- I & III) are carried out.
- 100% shower testing started since July-2022 to minimize the complaints of Roof leakage.
- Digital Measurement of Shell dimension for Inspection has been acquired.
- Vande Bharat MTC shell & MEMU TC shell inspection done by shell quality.

5. Activities of Coach Complaint and monitoring cell (CCMC):

Cases of failure reported by Railway	Mechanical		Electrical		Total
Cased received	7523		1753		9276
Case closed with finalization of Warranty claim	FY 2022-23 Complaints	6306	FY 2022-23 Complaints	1702	8008
	Before FY 2022-23 Complaints	6729	Before FY 2022-23 Complaints	623	7352
	Total	13035		2325	15360

Performance of CCMC:**i. Failure within 100 days.**

Year	Warranty Complaint (within 100 days)	Coach turned out in 01 Year	Coach complaint per 100 coach
2021-22	554	1875	29.54
2022-23	170	1461	11.63

ii Customer Warranty index (Mech.)

Year	Coach Complaint	Coach turned out in last 02 years	Coach complaint per 100 coach
2021-22	2812	3235	86.92
2022-23	9276 *	3336	278.05

Activities of CCMC:

- In financial year 2022-23 Due to continuous efforts by Quality wing MCF is able to recover rupees 13.86 Cr. from the Firms and amount of Rs. 60.76 Cr. is withheld on account of poor performance toward closing of warranty complaints.
- New warranty complaint portal i.e. Integrated Warranty Management System has been implemented w.e.f. December-2022 for receiving the warranty related complaints of all PU/workshop. At User Depot Module (UDM) Rs. 44.04 Cr. claimed against warranty replacement & warranty claim settlement value is Rs. 22.42 Cr.
- Bought out under warranty items are rectified/ replaced by concerned firms.
- In house warranty failures of complaints rectified by concerned MCF shops.
- If the complaints not attended within 60 days action are taken for withholding /recovery payments of defaulter firms as per extent rule.
- Regular communication with Zonal Railways/ Depots to resolve their warranty issues.
- Team of 2 supervisors and 1 Tech. has been deputed for Visual/Dimensional examination and to check rust free of incoming material.
- Super check by officers started from 08.08.2022 and 280 coaches inspected till date.
- 25 process audits at officer level as well as 84 process audits at supervisor level were carried out for quality improvement.
- Regular meeting was held with important firm such as M/s HFGW, M/s CMT, M/s ABOK, M/s GB Spring, M/s Advance silicon, M/s A Paul, M/s Amit engineers-Mohali, M/s Cemcon, M/s Hanspal, M/s Wheel India Limited & M/s Oriental Veneer Products Ltd. –Thane to improve the quality of material and mitigate the warranty complaints.
- Process Audit Inspection of various firms has been done at the firm premises of the following firms, to strengthen the quality of material.

SN	Firm M/s	Item
1.	Gummi Metall Technik (India) Pvt.Ltd. Bangalore.	Rubber Metal Bonded Item
2.	Polymer Product of India-Bangalore.	Rubber Metal Bonded Item
3.	Aryan Exporters Pvt. Ltd.- Lucknow.	Rubber Metal Bonded Item
4.	Bony Polymers Pvt. Ltd._ Faridabad	Rubber Metal Bonded Item
5.	ABOK Spring Pvt. Ltd._ Jaipur	Coil Spring
6.	Escorts India Ltd. Faridabad	Damper

- MCF officers have visited Central & Western Railway to resolve the warranty complaints. Discussed with Sr. DME/Sr. CDO of Central Railway (Bombay Division) coaching depot.
- VC had been organized with Firm (top 10) to redressal of warranty claims.
- A meeting was held with top 9 Firm for redressal of warranty claim on 24-08-2022.
- GM/MCF has visited Firm M/s IMI Norgren & M/s IAI for redressal of warranty claim & cause for more failure of Damper.
- Firm M/s IAI has attended all pending complaint of year 20-21 & 21-22.
- Quality system is followed as per the laid down procedure in Quality Manual. Strict vigil is being kept on the quality of material and inspections.
- Design office is also being informed regularly regarding design issues wherever necessary.
- RDSO has been advised for examining the specification and inspection issues related to Coil spring, Damper and fire alarm and detection system.
- 04 Firms M/s Air flow, M/s IMI, M/s Zumax & M/s WIL has been delisted /suspension.
- RITES have been advised for improvement of inspection process on 12.07.22.

6. Activities carried by third party:

Inspection of Coaches manufactured by MCF/RBL is being carried out through third party inspection by M/s RITES LTD. as internationally resounded organization. M/s RITES LTD. is also engaged for the stage audit inspection from 26.05.2022 for assembly and sub assemblies manufactured in-house. Further the inspection of jigs & fixtures for shell & Bogie assembly is also carried out by M/s RITES LTD.

7. M&C Lab and RI wing:

- Testing of 2054 samples in consignee, 34 samples in Audit & 168 prototypes samples were done. 71 samples accepted on improvement advice and 376 were found non-conforming to standards.
- 116 number of NCRs received from shop floor are scrutinized and confirmed.
- 6366 axles are checked by NDT technique- MPI in wheel shop with the help of outsourced inspectors.
- 1377 number of Shells checked by DPT in shell shop with the help of outsourced inspectors.
- 1410 number of painted shells are inspected and cleared from initial to final stage with help of outsourced inspectors.
- New M&P procurement as Smoke visibility tester, Flammability tester done to enhance the efficiency of lab.
- M&C Lab got NABL accreditation which is valid upto 15.07.2024. To strengthen the quality of material, the scope of testing has been raised to 86 parameters from 36 parameters.
- As per NABL policy, MCF/Lab participated in 54 nos Proficiency testing (PT) programs/Inter lab Comparisons (ILC) and no deviation found.
- 53 Nos. of Joint inspections against rejected material carried out by M&C officials.
- 43 Nos. of process audit/stage audit have been carried out by Lab officials.

8. ISO Cell:

Various certificates have been received during the FY-2022-23 are as under:

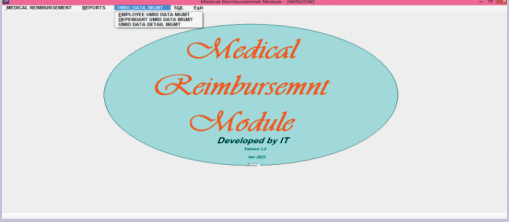


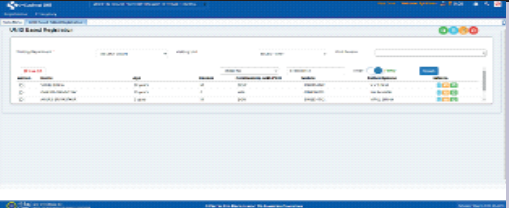
S.N	ISO certifications	Achieved	Validity
1	IRIS certificate ISO/TS 22163:2017 (For the activities of Design and Development and Manufacturing.)	23.10.2022	29.07.2025
2	ISO 45001:2018(OHSMS) (Occupational Health and Safety Management System)	31.12.2022	30.12.2025
3	ISO/IEC 17025:2017 (In the field of Testing by National Accreditation Board for Testing and Calibration Laboratories)	16.07.2022	15.07.2024
4	DQS Certificate ISO 9001:2015 (Quality Management System)	23.10.2022	22.10.2025

In addition MCF also processes the following certificate:

S.N	ISO certifications
1	Green-co-Rating System (For Environmental Friendliness) Will be issued by Confederation of Indian Industry (CII)

IT

IT department new initiatives and innovations for the year 2022-23 are as follow:

S.N.	New initiatives and innovations	Related Pictures
1	Developed MEDREM (Medical Reimbursement application) ORACLE based software for Medical reimbursement.	
2	To achieve 100% implementation of E-office, MOU was signed with RAITEL along with bulk creation of Gov ID and E-office ID.	
3	Conducted seminar on Cyber security awareness during cyber security awareness month.	
4	Implementation of HMIS in MCF Hospital.	
5	IT facility management services started in MCF resulting in saving on repair of faulty IT equipments as the overheads of CAMC work reduced.	

S&T

S.N.	New initiatives and innovations
1	Extension of Internet Facility via ADSL Modem to Newly constructed Type-IV/SS and Type-VI officer's residences.
2	Extension of CAMC Saraswati Auditorium & TTC Auditorium.
3	The provision of Wi-Fi Access point in New ORH (Gandhmadan).

Machinery & Plant

01 Assets: Total machine= 762

S.N.	Types of Machines	Number
1.	CNC Machine	75
2.	Non CNC Machine	79
3.	EOT Crane Jib hoists	76
4.	Laboratory installations	28
5.	Materials handling Equipments. (Fork lifter, Road mobiles, Traverser , Hydra, RRV & Shuttle Car)	104
6.	Welding sets	400

02. Conversion of 02 Nos. LASER cutting machines from mirror based CO2 slab resonator system to fiber laser system:

02 Numbers LASER cutting machines have been converted from mirror based CO2 slab resonator system to fiber laser system. By doing this conversion, cutting speed of these machines increased 2.5 times.



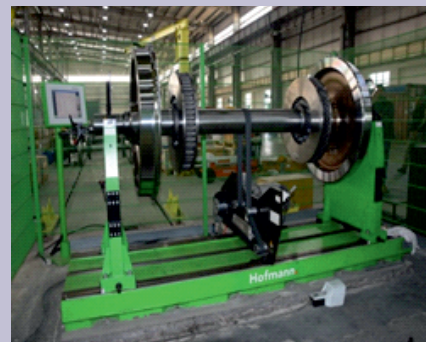
In fiber laser system, propagation of laser power is through optical fiber cable which is very flexible & could be carried up to the required length with full laser power. Metals like SS & aluminum can be cut better & more safely than CO2 slab resonator system.

Less maintenance is required in fiber laser system as compared to CO2 slab resonator system due to less part.

3. Modern Technology:

a. Wheel line:

Wheel Shop is totally automatic line where various stations work in tandem with synchronized gantry to perform all the machining operations on axel and wheel disc. Ultrasonic and Magnaflux testing, axel washing and auto dimensions measurement for matching the dimensions, pressing of wheel discs and brake discs have been also provided. Portal wheel lathe and wheel balancing machine are provided for final tread turning and produce balanced wheel sets. From this line one wheel set is produced in 18 minutes with minimum human interface.



b. ASRS (Automatic retrieval and storage system):

ASRS is automated storage and retrieval system which works on WMS software. There is a PLC program for keeping track of pallets and logic for placing and retrieval.



It has following major advantages-

- i. Low space high volume storage capacity.
- ii. No manual intervention.
- iii. Low man power requirement.
- iv. Systematic Storage.
- v. WMS software handles inventory and input and output command

c. Automatic Paint Line:

Paint shop has been provided with the automated painting facilities i.e. automatic painting booth with environment control. PU painting is being done with electrostatic guns for airless spray painting and LPG ovens have been installed for drying painted coaches for achieving high level of productivity. For meeting environment and pollution control norms, integrated ETP plant has been provided.

d. SPARE MANAGEMENT SYSTEM:

Industrial grade bar code based material management system for M&P spare cell:

Design programming of aforementioned system was successfully completed. This is an inventory management system. Tracing of material is done using barcode which is placed on material when it first arrives in store. This system stores crucial information about an item like date of receipt, date of issue, quantity, cost, associated machine, PL number, quantity, minimum quantity limit, lead time, supplier etc. By implementation of the software inventory management has become hassle free and transparent. Login id's at all levels have been provided like store supervisor, shop supervisors and officers to enable transparency about availability of spares. This helps in proper planning of procurement of spares.

Proper identification of spares on rack has been developed to search required spare in minimum time.

Google sheet of spares on Google drive has been shared with all concerned.



Tracking system of storage in spare house

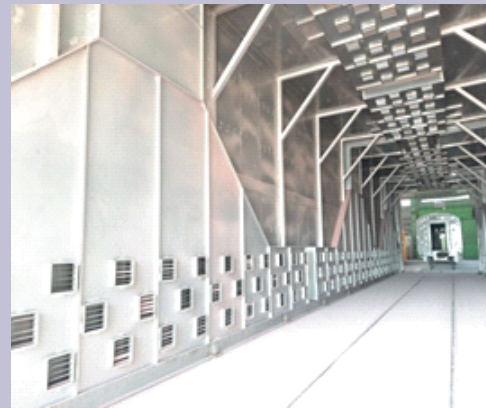
e. INDUSTRY 4.0:

MCF has become first factory to adopt Industry 4.0. A total of 39 machines have been networked and the key parameters of these machines are gathered continuously. This helps in keeping a watch on health of the machine and identifying causes responsible for lower utilization/productivity. The status is also available on mobile app.

4. Addition of New machine:

a. Spray paint booth & baking oven for railway coaches in paint shop (Supplier- M/s K. S. W. India Private Limited, Greater Noida):

The additional paint booth & baking oven system in paint shop has been commissioned with the automated painting facilities i.e. automatic painting booth with environment control. PU painting is being done with airless spray painting and LPG ovens have been installed for drying painted LHB coaches for achieving high level of productivity. For meeting environment and pollution control norms, ETP plant has been provided.



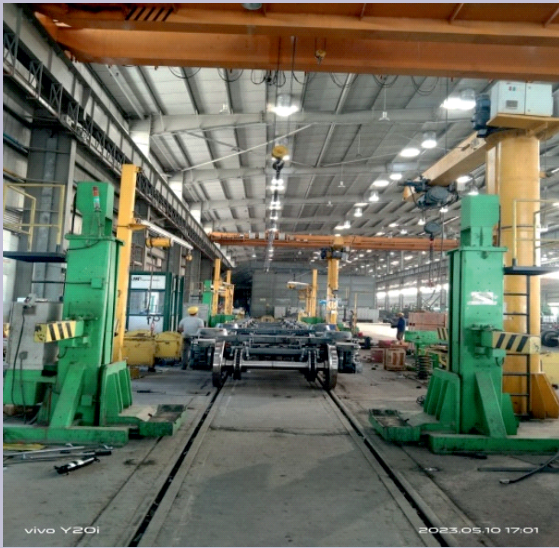
b. Installation of additional 40 KL Argon tank and tri gas mixture:

Additional argon tank of capacity 40 KL, CO₂ Tank (13KL) and conversion of existing Argon tank (13KL) to O₂ Tank along with mixers and gas analyzers was done in addition to the existing 13KL argon tank. As production increases consumption of di and tri gas mixture increased which has argon as main component. This has resulted in decrease in pressure in these lines. As a minimum pressure is required to be maintained for desired welding quality there was a need for expansion of existing gas bank facility. An addition gas mixture of capacity 250 m³/hr for tri mix was also installed. With installation of additional argon tank and tri gas mixture issues of pressure drop in pipeline has been resolved.

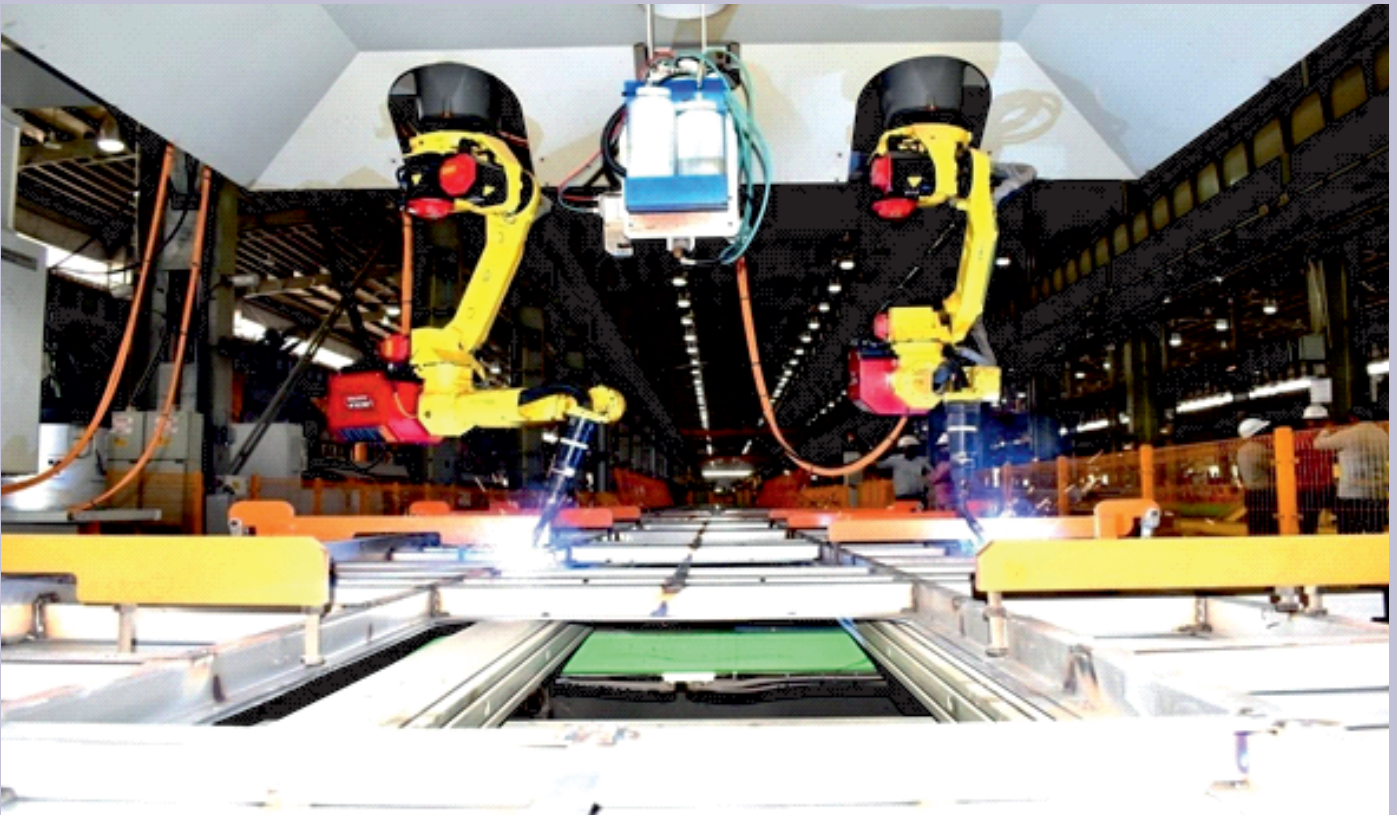


c. **Integrated high capacity bogie assembly line (Supplier- M/s Godrej & Boyce Mfg Co. Ltd., Mumbai):**

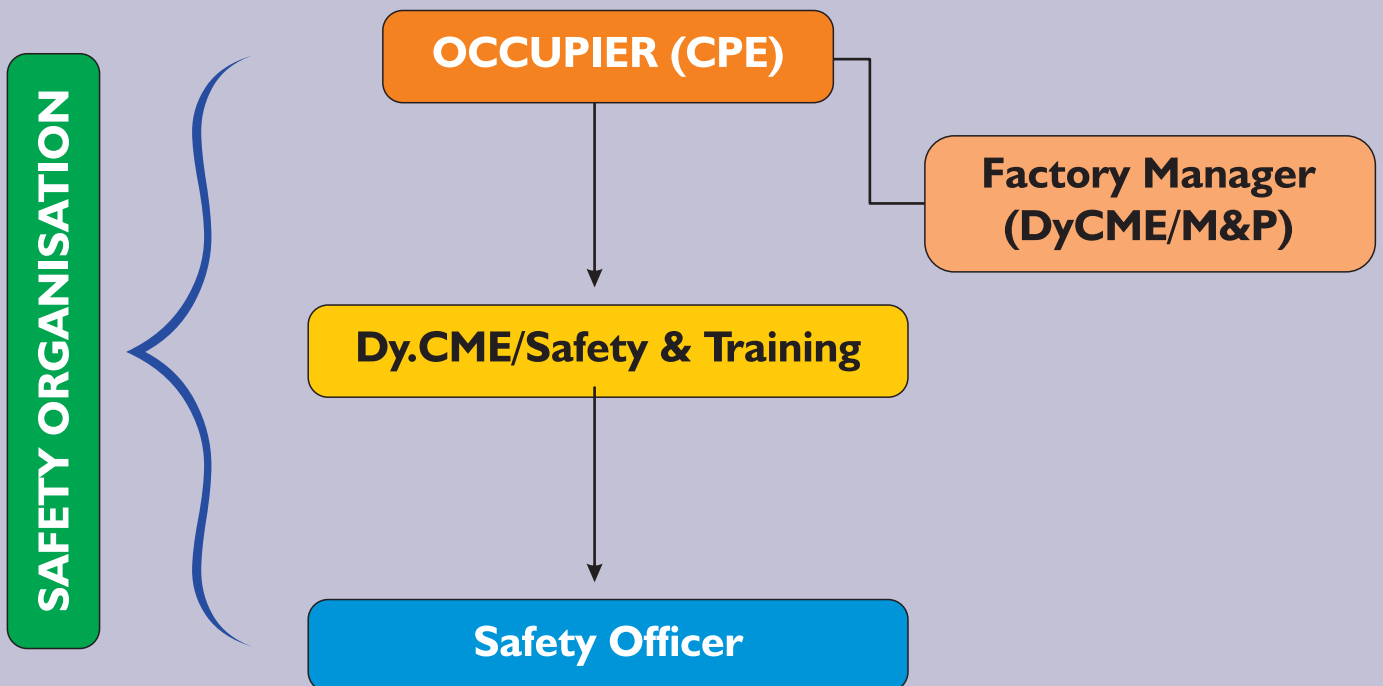
The automated bogie assembly line having 07 stations has been commissioned for complete assembly of bogie in all respect (all types of FIAT bogie i.e. coil & air spring) at a rate of 06 bogies in a shift of 08 Hrs.



SAFETY



SAFETY ORGANISATION



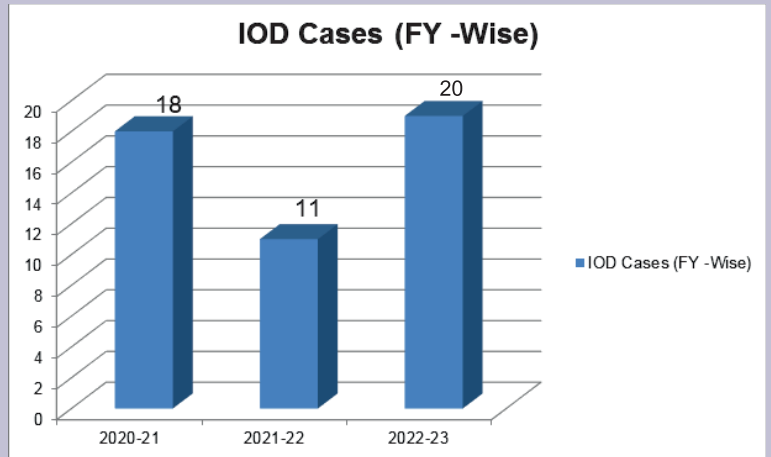
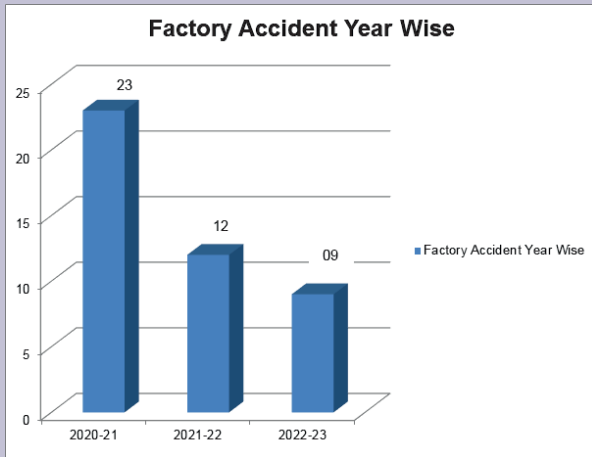
A) INFRASTRUCTURE	
(i) Total length of Fire Hydrant pipe line. (Working Pressure - 6 Kg/cm ²).	23,500 Mtrs.
(ii) Total no. of Fire pump house.	4 Nos.
(iii) Total no. of Hydrant Point	273 Nos.
(iv) Total no. of Fire Fighting Personal.	21 (Contractual staffs)
(v) Total no. of Fire Extinguishers DCP type, CO ₂ type, Foam type and water type	1161 Nos.
(vi) Total no. of Fire Tender	3 Nos.
(vii) Total no. of Fire trolley pump.	1 No.
(viii) Total no. of Fire Alarm panels	No.3 Nos.
(ix) Total no. of addressable manual call points	144 Nos.
(x) Total no. of Optical Beam Smoke detector (In Store Depots)	70 Nos.
(xi) Total no. of Breathing Apparatus	4 No.
(xii) No. of Hydraulic Spreading Cutter with pump	1 No.
B) Medical facilities	
i) Name of medical centre in campus:	Railway Hospital, MCF/RBL
ii) Emergency Telephone No.	05315-240000
iii) Ambulance No. Hospital (Township), (Mini Admin)	0535-2704290 05315-240001

Activities 2022-23:

Description	Numbers
Safety meeting	03
Safety Seminar	02
Safety Counselling of SSE/JE/staff on shop floor	90
Mock Drill	03
Safety Classes in TTC	44
Fire Fighting Training to staff (Workshop + Colony)	94
Patrolling of fireman with fire tender in 3 shift	14496 KM

COMPARATIVE SAFETY PARAMETER

Factory Accidents: Year Wise



SAFETY EVENTS ORGANIZED DURING 2022-23



Fire Mock Drill



Fire Fighting Training



Safety Meeting



National Safety Week

Technical Training Centre

I. Total Trainee Days:

Capacity	Actual	% Achievement
59,200	75,934	128 %

2. Courses conducted

S.N.	Course Description	No. of Courses planned	No. of Courses Conducted	No. of Trainees attended
1	Basic Training & Certification Course for Operators of Powered Industrial Truck (FLT's)	12	12	92
2	EOT Crane Operation Training	06	06	55
3	Safety Training for MCF artisan staff	12	12	126
4	Refresher course for SSE's & JE's (Mech)	12	12	40
5	Refresher course for Mechanical Artisan staff	12	12	60
6	Refresher course for Electrical Supervisors & Artisan Staff	08	08	27
7	Training and Testing of Welders including Contractual Welders (Categorization Level A and Level B)	18	18	205
8	Rail Kaushal Vikas Yojna (Total trained up to April'23 = 778)	Special course, 12	12	547
9	Act- Apprenticeship	As per requirement	---	99
10	Safety Training for Newly Deployed/Working contractual staff	06	04	06
11	Training of Promotee JE's (Mech. & Elect.)	As per requirement	04	56
12	Induction Training of Artisan staff	As per requirement	01	01
13	Traverser operation training	As per requirement	02	39
14	Vocational Industrial Training for students of Technical Institute	As per requirement	---	219
15	Industrial visit of MCF/RBL for students of Technical Institutes/ Dignitaries from other Govt./Private organizations	As per requirement	---	833
16	Field training for other Railways staff	As per requirement	---	276
17	Training on 5S Methodology	As per requirement	---	393
18	Pre-Selection Coaching	As per requirement		688
19	Unskilled to skilled artisan (Electrical)	06	01	03

3. Number of trainees attended training:

S. N.	Description	No of staff trained
1	MCF Staff	1446
2	Contractual Staff	345
3	RKVY	547
4	Act- Apprentice	99
5	Other Railway Staff	276
6	Vocational Students of Technical Institutes	219
7	Industrial Visits	833
	Total trainees Trained	3765

4. Initiatives taken:

- Rail Kaushal Vikas Yojna (RKVY): 547 Trainees trained in Welding, Electrician, Basic Computer and Fitting trades in FY 2022-23. Total 778 trainees trained till April 2023.
- Total revenue of Rs. 8, 74,004.00 generated by charging training fee from the firms towards training of their staff (Contractual) i.e. Welder's Certifications, EOT, FLT, Traverser & Safety training.
- Organized 05 day training on Cape Gauge Passenger coaches for 14 Nos. CFM Mozambique Railway personnel at TTC in Co-ordination with RITES and Design department.
- Conducted 1st National (7th outreach) training programme for Pharmacists of Indian Railways from 17.10.2022 to 20.10.2022 in coordination with NAIR/BRC and Medical department of MCF.
- Under Special initiative training on 5S methodology conducted at TTC in and 393 staff from production shops have been trained.
- On the occasion of 'World Heritage Day' (18th April 2022), a special lecture of Shri Shudhanshu Mani, Ex GM/ICF on the theme of "Heritage and Culture" was organized at TTC for officers, staff of MCF and students of KV/MCF.

5. Rail Kaushal Vikas Yojna: Target: 1000 trainees in 2.5 years w.e.f. Sept 2021 to March 2024. 18 batches have been successfully conducted and 730 trainees trained.

FY 2021-22: 183 & FY 2022-23: 547 trainees trained

Trade	Passed Out		
	Male	Female	Total
Electrical	221	35	256
Welder	69	07	76
Fitter	125	09	134
Computer Basics	158	105	263
Carpenter	01	00	01
Grand Total	574	156	730

6. Special Moments:

7th Outreach Programme for Pharmacists of Indian Railways at TTC/MCF



Guest Lecture by Sh. Sudhanshu Mani Ex.GM/ICF on World Heritage Day-2022



Visit of Mr. Nurul Islam Sujon, Hon'ble Minister of Bangladesh Railways.

PROJECT

1.0 Annual Performance of Setting up Project for 2022-23:

- (a) Modern Coach Factory, Raebareli has been set up at a total cost of ₹ 3192 Cr, for producing LHB design stainless steel coaches with production capacity of 1000 coaches per annum. Factory is being setup on turnkey basis and the contract is awarded to M/s IRCON International on nomination basis. During the FY 2022-23, following works got completed:

SN	Civil Work
1.	Construction of balance 96 Type-II quarters
2.	Construction of balance 80 Type-III quarters
3.	Construction of 02 Type-VI quarters
4.	Construction of 02 nos. tube well in township

- (b) M&Ps Commissioned in 2022-23 (Under Setting up of MCF):

SN	Machine Name	Qty./Set	Cost (Rs. or Cr.)
1.	Edge Milling Machine	01	8.53
2.	Paint Booth & Oven	01	9.65
3.	Hydraulic Platform Truck (Sky Lift)	01	0.20

2.0 Annual Performance of Augmentation Project for 2022-23

- (a) A work of augmentation of production capacity from 1000 to 2000 coaches per year (Phase-1) is sanctioned vide Pink Book 2018-19 (Item No.2 of MCF). It is decided to run the factory in 3 shifts for getting 1500 coach capacity with the existing facilities. For additional 500 coaches/ annum detailed estimate is sanctioned at the cost of Rs.495.42 Cr. During FY-2022-23, following works got completed.

SN	Description
1.	Construction of 20 Type-IV (SS) quarters
2.	Construction of 72 Type-IV (DS) quarters
3.	Construction of 120 Type-III quarters
4.	Construction of Shed for testing line (400MX20M)

- (b) M&Ps Commissioned in 2022-23 (Under Augmentation):

SN	Machine Name	Qty./Set	Cost (Crs.)
1.	Portable 3D Computerized Co-ordinate Measuring and Data Transfer Machine for FIAT Bogie (01Nos.)	01	0.43
2.	Diplory 25 T capacity	100	1.05
3.	Hydraulic Bearing press	01	0.19

- (c) Following M&P also received during 2022-23 and are under Commissioning:

SN	Machine Name	Qty./Set	Cost (Lacs)
1.	CNC Oxy Profile Cutting Machine	01	0.45
2.	Remote and pendent operation EOT crane 10/03T with shrouded DSL 360m, Bay width 20m, Span 18.5m	03	01.32
3.	LHB Coach Twin Track (External) Surface Traverser 50T (covered) along with shrouded DSL 300m	02	2.76
4.	LHB Coach Automatic Painting Booth (wet type) with Drying Oven	01	10.62

3.0 Annual Performance of PH-41 Project for 2022-23:

(a) Following M&P were received and commissioned during FY-2022-23.

SN	Machine Name	Qty./Set	Cost (Lacs)
1.	E-Loader (Battery Operated) with battery, battery charger, RTO registration, Insurance	01	1.09
2.	Shower Testing arrangement at Shell shop RBL End.	04	321.15
3.	Salt Spray Chamber	01	3.33
4.	Pillar Automatic Feed 40 mm Drilling M/c	01	2.5
5.	Screw Compressor	01	4.86
6.	Load Lifting and Turning device, Cap-10 Ton Each	01	34.81
7.	E-Loader	01	1.21
8.	Multipurpose Hydraulic Oil Chiller	01	3.07
9.	Self propelled Scissor Lift	01	20.05
10.	NC Shearing Machine 12 mm MS & 6 mm SS 2500 mm Bed	01	22.77
11.	Oil Injected Rotary Screw Air Compressor with integrated Air dryer	01	4.96

(b) Following M&P were also received during 2022-23 and are under Commissioning:

SN	Machine Name	Qty./Set	Cost (Lacs)	Remarks
1	Hydraulic Tyre Fitment Machine	01	10.92	PH-41
2	Pipe threading Machine	01	01.62	PH-41
3	Weld Inspection Scanner	01	31.25	PH-41

4.0 Financial Performance FY 2022-23:

(a) Utilization of fund under plan head 4100 for the FY-2022-23.

(All fig. in Crs.)

Allocation Head	BG	FM	Actual Expenditure (2022-23)
PH-41	12.03	08.46	08.70

(b) Utilization of fund under plan head 4200 for the FY-2022-23

Allocation Head	BG	FM	Actual Expenditure (2022-23)
PH-42	122.74	152.50	158.67

The Project wise detail is as follows (PH-42):

(All fig. in Crs.)

Description	Abstract Project Cost	Detailed Sanctioned Estimate	BG-2022-23	FM 2022-23	Actual Expenditure (2022-23)	Cumulative Expenditure up to Mar-22	% Utilization
Setting up project	1685.00	3192.00	23.79	38.71	38.27	3092.42	96.88
Augmentation 1000 to 2000 Coaches	480.00	495.42	50.00	109.31	115.95	243.56	49.16
MCF Upgradation of critical work centers of workshops		150.00	38.95	0.00	0.00	0.00	0.00
Upgradation /Improvement / augmentation of workshop (Umbrella work) Vande Bharat		157.00	10.00	4.48	4.45	4.45	2.83

STORE

Statement No. 38-A

VALUE OF STORES PURCHASED DURING 2022-23

(Rs. In Thousand)

SN	Heading	Value of Stores Imported Direct				Value of Imported Stores Purchased in India				Value of Stores Manufactured in India or of Indigenous origin				
		Stock	Non-Stock	Consstn Work	Total	Stock	Non-Stock	Consstn Work	Total	Stock	Non-Stock	Consstn Work	Total	G. 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	-189	0	0	-189	0	0	0	0	25857258	0	0	25857447	25857447
5	Electrical Stores	0	0	0	0	0	0	0	0	110513	0	0	110513	110513
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	4231	0	4231	4231
9	Abrrasive tools, hardware etc.	0	0	0	0	0	0	0	0	38234	0	0	38234	38234
10	Brushes, brushware etc.	0	0	0	0	0	0	0	0	95	0	0	95	95
11	Indian rubber, leather canvas etc	0	0	0	0	0	0	0	0	58802	0	0	58802	58802
12	Electrode & welding accessories	0	0	0	0	0	0	0	0	113351	0	0	113351	113351
13	Paints, enamels & varnishes	0	0	0	0	0	0	0	0	16699	0	0	16699	16699
14	Crockery, cutlery & napery	0	0	0	0	0	0	0	0	289	0	0	289	289
15	Cloth, clothing & personal equipment	0	0	0	0	0	0	0	0	3712	0	0	3712	3712
16	Petroleum products other than fuel oil	0	0	0	0	0	0	0	0	2631	0	0	2631	2631
17	Refractories, packing material etc	0	0	0	0	0	0	0	0	713	0	0	713	713
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	103790	0	0	103790	103790
20	Stationery forms etc.	0	0	0	0	0	0	0	0	4525	0	0	4525	4525
21	Metal ferrous	0	0	0	0	0	0	0	0	69165	0	0	69165	69165
22	Metal non-ferrous	0	0	0	0	0	0	0	0	0	0	0	0	0
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	18236	0	0	18236	18236
25	Timber	0	0	0	0	0	0	0	0	-4362	0	0	-4362	-4362
26	Scrap	0	0	0	0	0	0	0	0	130800	0	0	130800	130800
27	Rolling Stock complete units & stores	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	-189	0	0	-189	0	0	0	0	26524451	4231	0	26528871	26528871

STATEMENT NO. 38-B

Total Value of stores purchased during 2022-23

PROFORMA-I

(Rs. IN Crores)

Sr. No.	Item	Value
A	Imported Direct	-0.02
B	Imported Stores Purchased in India	Nil
C	Stores Purchased from PSUs	Nil
D	Khadi Purchase	0.05
E	Stores purchased from Cottage & SSI units	1425.31
F	Other indigenous	1227.5
	Total	2652.88

Total Value of stores purchased during 2022-23

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.	2652.88
	Total	2652.88

Total Value of stores purchased during 2022-23

PROFORMA-III

(Rs. IN crores)

Sr. No.	Item	Value
A	Through Gem	24.06
B	Through Railway Board	123.65
C	Direct Purchased made by Railway/PU	2505.17
	Total	2652.88

STATEMENT NO 39-A

Stores Transaction during the year 2022-23

(Rs. In Thousand)

Description	Opening balance (at the beginning of the year 2022-23)	Receipts during the year 2022-23)	Issues during the year 2022-23)	Closing balance (at the end of the year 2022- 23)
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
Carriage, wagon, EMU parts and fittings	4794784	25857447	26730800	3921431
Electric stores	24779	110513	115988	19304
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	8709	4231	4632	8308
Abrasive tools,hardware etc,	41018	38234	42914	36338
Brushes, brushware etc.	285	95	219	161
India rubber, leather canvas etc.	26680	58802	53480	32002
Electordes & welding accessories	6507	113351	102903	16955
Paints,enamels & varnishes	14899	16699	6649	24950
Crockery, cutlery & napery	0	289	209	80
Cloth,clothing & personal equipment.	9666	3712	6381	6997
Petroleum products other than fuel oil	1818	2631	2507	1942
Refractories, packing material etc.	228	713	466	475
Ball & roller bearings	0	0	0	0
Genl. Stores covering acids, chemicals etc.	8064	103790	105716	6137
Staionery forms etc.	1075	4525	3435	2166
Metal ferrous	15138	69165	59084	25219
Metal non-ferrous	115	0	0	115
Fuel-coke, coal etc.	0	0	0	0
Fuel-oil	0	18236	18236	0
Timber	34605	-4362	13087	17155
Scrap	34999	130800	114945	50854
Rolling Stock complete units 7 stores	0	0	0	0
Total	5023369	26528871	27381651	4170589
Adjustments	0	0	0	0
Grand total as per App. Account	5023369	26528871	27381651	4170589

Summary statement of Stores transactions during 2022-23

STATEMENT NO. 39-B
(Rs. In Crores)

39(B)- Summary Statement of Stores transactions on Govt. Railway in 2022-23									
Opening bal. At the beginning of the yr.				Trans. Of Phy. Stock		Closing bal. 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
502.33	-0.42	-370.54	131.37	2652.88	2738.16	417.05	-84.05	215.36	548.36

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 3085.39/- crore upto March, 2022. 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. - 86.48/- Crore. The break-up of fixed and floating assets is as under:

1.2 Total Assets as on 31st March 2023:

(Figs in crore)

Assets		Value
I	Fixed Assets	
a)	Project (Land)	51.87
b)	Project Township (Structural Engineering Works)	1575.98
c)	W/s & Offices	1624.68
Total Fixed Assets (a+b+c)		3252.53
II	Floating Asset	
a)	Stores Suspense	84.48
b)	W/s Mfg. Suspense	81.55
c)	Misc Adv. Cap	-72.22
Total Floating Assets		93.81
Total Assets (Fixed + Floating)		3346.34

2.0 STATEMENT SHOWING DEPRECIATION RESERVE FUND ACCOUNT FOR AND TO END OF THE YEAR 2022-23.

S.No.	PARTICULARS	AMOUNT
1.	Opening balance	NIL
2.	TWFA	NIL
3.	BALANCE AS ON 01.04.2022 (Item 1+2)	NIL
4.	Appropriation to funds during the year 2022-23	34,00,00,000
5.	Payment from fund during the year 2022-23	NIL
6.	Net accretion to the fund (Item 4 5)	34,00,00,000
7.	Half of the outlay during the year	17,00,00,000
8.	Total amount on which interest is to be worked out for 2022-2023 (Item 3+7)	17,00,00,000
9.	Interest @ 3.35% on item no. 8	56,95,000
10	Arrear adjustment, if any	NIL
11	Net balance as on 31.03.2023 (Item 3+6+9+10)	34,56,95,000

3.0 STATEMENT SHOWING PENSION FUND ACCOUNT FOR AND TO END OF THE YEAR 2022-23.

S. No	Particulars	Amount
1	Balance as on 01.04.2022	-8,30,22,713
2	Appropriation during the year (2022-23)	12,00,00,000
3	Withdrawal from pension fund During the year	9,83,00,162

4	Net Accretion During the year (2-3)	2,16,99,838
5	Half of the Net Accretion	1,08,49,919
6	Amount on which interest is calculated (1+5)	7,21,72,794
7	Interest on Fund Balance @3.35% of (6)	-24,17,789
8	Closing Balance as on 31.03.2023 (1+4+7)	-6,37,40,664

It is certified that the Grant totals have been reconciled with the figures in the Account Current to end of March 2023.

5. MANUFACTURING SUSPENSE ACCOUNT FOR THE YEAR 2022-23

Fig. in units

PARTICULARS	1st April 2022 to 31st March 2023	PARTICULARS	1st April 2022 to 31st March 2023
	AMOUNT		AMOUNT
(1) WORK IN PROGRESS AS ON 01-04-2021	417174161.4	(1) TRANSFER TO RLY.	
TOTAL (A)	417174161.4	(i) SUPPLY OF COACHES	29085849225
B-(1) LABOUR		(ii) MISC. SUPPLIES	0
(1) WORK SHOP DIRECT LABOUR	381942282	(2). BY CAPITAL STORE	0
(2) INDIRECT LABOUR	658211547	(i) MANUFACTURING	0
(3) SALARY AND ALLOWANCES OF ADM	575766347	(ii) RETURNED STORE	0
(4) WORKS CONTRACT	455035084.6	(3) BY CAPITAL WORK DONE PLANT AND MACHINERY & OTHER WORKS	0
(5) SALARY AND ALLOWANCES OF STORE	109172878	(4) BY WORK DONE ON DEPOSIT ACCOUNT	0
(6) SALARY AND ALLOWANCES OF TOWNSHIP	39252421	TOTAL CREDIT	29085849225
TOTAL LABOUR	2219380560	(5) BY EXPORT	
C-(2) STORES		(6) BY CLOSIN BALANCE (WORK IN PROGRESS AS ON 31 03 2022)	896714666.7
(1) STORE DIRECT FROM STOCK	25969389671		
(2) STORE DIRECT FROM DDO	808842119		
(3) ADJUSTMENT	-433676000		
(4) INDIRECT STORE (FOH)			
(5) FOH DDO	567535334		
(6) FOH ADJUSTMENT	-31372325		
(7) INDIRECT STORE (AOH)			
(8) AOH DDO	43472469		
(9) AOH ADJUSTMENT	-1852442		
(10) INDIRECT STORE (SOH)			
(11) SOH DDO	225493131		
(12) SOH ADJUSTMENT	-2992		
(13) INDIRECT STORE (TOH)	0		
(14) TOH DDO	272300443		
(15) TOH ADJUSTMENT	-19171446		
(16) RETURNED STORE	339223458		
(17) MISC.ADJ. (TR) DR/CR FROM TO OTHER RLY.	-40020465		
TOTAL STORES	27700160955		

(3) OTHER CHARGES	0		
(1) APPRO. TO PENSION FUND	120000000		
(2) AOOI. TO DRF	340000000		
(3) APPRO. TO SBF.	0		
(4) ELECTRICITY (POWER)	101367225.5		
(5) STOCK ADJUSTMENT	0		
(6) FRIEGHT INDIRECT	0		
(7) MISC. INDIRECT	-81170687		
TOTAL OTHER CHARGES	480196538.5		
(1) RECEIPT ON RENT AND WATER	0		
(2) RECEIPT ON ELECTRICITY	0		
TOTAL RECOVERIES0			
TOTAL (B)30399738053			
GRAND TOTAL (A+B)29982563892		GRAND TOTAL	29982563892

It is certified that the grant totals have been reconciled with the figures in the Account Current to end of March 2023.

ACHIEVEMENT

1. Total saving for Rs 4.66 Cr during internal scrutiny of financial proposal for this financial year.
2. 16 cases have been closed out of 26 Sales tax cases.
3. An average 8.73% Production cost has been diminished in the financial year 2022-23.
4. E-office is being completely implemented in A/c department since last year 2022-23.
5. Average time taken in passing of vendor's bill by MCF/RBL is one of the least in comparison with other PUs .

CIVIL ENGINEERING DEPARTMENT

(Financial Year 2022-23)

1.0 General-

- 1.1 Modern Coach Factory, Raebareli is a Coach Production Unit of Indian Railway, situated at town Lalganj in District Raebareli. It is spread over large area of 540 Hectares of land. Out of this workshop area is 167 hectare, township area 354 hectares and remaining 19 hectares is used in rail connectivity from Lalganj Railway Station to workshop.
- 1.2 Workshop comprises approx. 2.01 lakh sqm covered structures. In township, there are 2259 quarters (1124 type-II, 760 type-III, 232 type-IVDS, 90 type-IVSS, 46 type-V, 7 type VI & above).
- 1.3 Various service buildings in workshop and township, availability of full-fledged hospital, separate rest houses and clubs for workers, supervisors and officers, welfare centre, Nursery & KV School, Shopping complex, technical trainee & sport hostel. Entire indoor & outdoor sport facility, 3 MW solar power plant, a green environment and 60 hectare area Eco-Park with 7 large ponds.
- 1.4 Cost of entire civil engineering assets of MCF is approximately Rs.1435 Crore. Now Workshop is being augmented from production capacity 1000 coaches per year to 2000 coaches per year.
- 1.5 Dense forestation of 10200 trees has been done in township side in consultation with Forest Department UP. Including this total plantation done so far in MCF is 1,43,200 trees. 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.
- 1.6 Green Co. Platinum certificate has been obtained for the workshop. Main emphasis is given on conservation of natural resources and to provide green & eco friendly environment. Entire sewage of workshop and township is being treated in STPs (capacity 1.1MLD + 0.4 MLD in township and 1.1 MLD in workshop). Entire treated water is being used in irrigation of greenery.
- 1.7 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.
- 1.8 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, Sky lights have been provided in roofs to facilitate day light and conserve electricity.

2.0 Organisation setup-

- 2.1 Civil Engineering Department is headed by Principal Chief Engineer, who is assisted by 2 Dy. CE, 1-XEN & 3AXENs.

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

Category		Sanc. Strength	On Roll	Vacancies
Officers Civil Engg.		09	08	01
Group 'C'	Supervisor	22	13	09
	Ministerial	13	07	06
	Artisan	27	24	03
Group 'D' (Helper)		30	15	15
Total		101	67	34

There are 10 SSE/JE/Works to maintain building & structures and maintain rail connectivity network along with handling of special sanctioned and project works.

3.0 Main features-

3.1 Water Supply

There are 4 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 6 over head tanks is 2475 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
OTT 6	Near new Type-II	450	22 m high

Total length of main water pipe line in township is 27.30 km and in workshop is 16.00 km. Average daily requirement of water is about 3050 KLD (2000 KLD for Township and 1050 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.

3.1 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 21 number RWH (16 Nos. in Township and 5 nos. in Workshop) with annual recharge capacity 364 ML which is more than statutory requirement of 25% of extract quantity. Now additional rain water harvesting 2 in township & 6 Nos in factory is planned to enhance the recharge capacity up to 36% of water extracted from ground.

3.2 Fire Fighting Arrangements

Sufficient fire hydrants at strategic points in the workshop, administrative building and public places like auditorium and school have been installed to meet emergency requirement. 1 static ground water tanks of capacity 900KL and 02 elevated tank of total capacity 332KL has been provided.

3.3 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 workshop. 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	-	2322
10	RCC pipes 600mm pipe NP2	-	50
11	RCC pipe 800 mm Pipe	-	3370
12	RCC pipes 900mm dia	-	2182
13	RCC pipes 1200mm dia	-	609
Total		7919	25140

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	7076	16000
3	Brick drain (open)	-	9000
Total		16091	30000

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	33200
2	Bituminous Road	11123	1,89,557

3.6 Other features of Civil Engineering Department of MCF are as under :-

(i) Land

Private land	283 Hectare
Govt land	189 Hectare
Gram Sabha land	68 Hectare
Total	540 Hectare
Book Value	60 Crore (Approx.)

(ii) Boundary Wall (km)

Township	10.78 Km
Workshop	7.00 Km
Total	17.78 Km.

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

(a) 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	1400	0	4857
Total	17470	2507	30555	50532

3.7 Residential Accommodation

Type	No. of quarters
II	1124
III	760
IVDS	232
IVSS	90
V	46
VI	6
GM Bungalow	1
Total	2259

3.9 Workshop Structures (sqm)

(i) Covered area	=	285875
(ii) Un-covered area	=	152943

3.10 Other Structures (sqm)

(i) Service Buildings	=	9158
(ii) Anc. Build. in Workshop	=	8600

3.11 Welfare Buildings (sqm)

(i) Township	=	17560
(ii) Workshop	=	3850

3.12 Track

Description	Length(Km)
Ballasted Track	10.749
Embedded Track	23.586
Points & crossing	27Nos

4.0 Expenditure during financial year 2022-23

SN	Plan head	Allocation	Expenditure
1	4200	Cap	1297000
2	4100	Cap	7700
3	7200	WMS	506500
	Total		1811200

5.0 Major Achievement of the year 2022-23

- New Finishing shop (96 M X 60M) Completed within time.
- New Store shed (72 M X 51M) 95% completed and balance work is in progress.
- New Store shed (104 M X 40M) 90% completed and balance work is in progress.
- Traverser (110 meter) for testing shed completed within time.
- 120 Type-III quarters Completed.
- New furnishing shop (360M X 60 M) 85% completed and balance work is in progress.
- Shell shop (246MX80M) 40% completed and balance work is in progress.
- Paint shop (105Mx105M) 40 % completed and balance work is in progress.
- Construction of Type-III D/S 120 Unit type-III D/S has been constructed and allotted to **staff**.
- Construction of two wheeler parking shed -500 spm Parking shed has been constructed.
- Testing shower plants- 4 no Testing shower plants has been constructed in New store yard area & near Mathana Nala for stacking of coach material.
- Construction of Flooring for Store Yard- 9500 sqm concrete flooring has been constructed in New store yard area & near Mathana Nala for stacking of coach material..
- Plantation- 10200 nos plant has been planted in Township & Workshop area.
- Construction of additional Embedded/Ballasted track in workshop-1400 Trak meter embedded/ballasted track constructed for stabling of coaches & smooth shunting of coaches.
- Construction of RCC O.H. Tank-90% completed and balance work is in progress.
- One OHT commissioned .

Major work planned and in progress of the year 2022-23

Following work is in progress in connection with augmentation of coach production capacity from 1000 to 2000 per year and other major works.

- Construction of furnishing shop(360mx60M).
- Construction of finishing shop(96mx60M). & 03 no. store shed (60mx25M).
- Construction of Paint shop(120mx105M).
- Construction of office cum locker room, toilet block, embedded track, bridge, mathana nala, etc.
- Construction of new stabling lines.
- Construction of shell shop (246x80).
- Civil assets maintenance contract of Township & Workshop is awarded
- Modernization of Kota Workshop (Phase-I&II) is completed and Modernization of Alambagh workshop (Phase-I&II) and Kota Workshop (Phase- III) are in progress.

PERSONNEL

Annual Report of Personnel Department for the year 2022-23

1. Over all Cadre position of MCF/RBL as on 01.04.2023

S.No.	Category	Revenue	W/C	Total	On roll	Vacancy
1	Gazetted.	157	0	157	123	34
2	Supervisors	428	0	428	349	79
3	Artisan	1560	0	1560	1353	207
4	Ministerial	240	0	240	191	49
5	Others (A/C, RPF, Med. G. Branch)	148	15	163	134	29
6	Group-D	351	0	351	128	223
	Total	2884	15	2899	2278	621

* 15 work charged post of account departments.

a) Cadre of Gazetted Officers:-

The staff strength of Gazetted cadre during the year 2022-23 is given below:-

S. No.	Category	Rev.	W/C	Total	On roll	Vacancy
1	HAG+	1	0	1	0	0
2	HAG	5	0	5	4	1
3	SAG	21	0	21	19	2
4	SG/JAG	39	0	39	35	4
5	SS	32	0	32	27	5
6	JS/Group-B	59	0	59	37	22
	Total	157	0	157	123	34

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

The staff strength of Non-Gazetted cadre after up gradation of Sr. Supervisors and surrender of Level-1 posts during the year 2022-23 (as on 01.04.2023) is given below:-

S. No.	Category	Rev.	W/C	Total	On roll	Vacancy
1	Supervisors	428	0	428	349	79
2	Artisan	1560	0	1560	1353	207
3	Ministerial	240	0	240	191	49
4	Others (A/c, Security, Gen Admn, Med.)	148	15	163	134	29
5	Group-D	351	0	351	128	223
	Total	2727	15	2742	2155	587

c) **Cadre upgradation of Sr. Supervisors from (Level-7 to Level-8) during the year 2022-23.**

S.N.	Deptt.	Desig.	No. of post upgraded from L-7 to L-8	Remarks
01.	Personnel	Ch. OS	11	Finalized.
02.	Civil	SSE/Works	05	Not Finalized.
03.	S&T	SSE	01	Finalized.
04.	Electrical	SSE	10	Finalized.
05.	Stores	CDMS Ch. OS	16 05	Finalized. Finalized.
06.	Mech.	SSE/Workshop SSE/Design CMS	85 10 03	Not Finalized. Not Finalized. Not Finalized.
	Total		146	

d) Surrendered of post (Rev+W/C posts) during the year 2022-23.

S.N.	Deptt.	Desig.	No. of surrendered post	Remarks
01.	Personnel	Genl. Asst.	02*	For upgradation
		CWLI	02	Work-Charged post
		WLI	02	Work-Charged post
		CLA	01	Work-Charged post
02.	Civil	Asst. Works	01*	For upgradation
		SSE/Works	01	Work-Charged post
		SSE/Drawing	03	Work-Charged post
		SSE/P.Way	01	Work-Charged post
03.	S&T	Asst./S&T	01*	For upgradation
		SSE	02	Work-Charged post
04.	Electrical	Asst./Electrtical	02*	For upgradation
		SSE	14	Work-Charged post
05.	Stores	Asst./ Depot	04*	For upgradation
		CDMS	06	Work-Charged post
06.	Mech.	Asst./ Workshop	15*	For upgradation
		SSE	27	Work-Charged post
07.	Accounts	Stock Verifier	01	Work-Charged post
		IS	01	Work-Charged post
		Account Asst.	04	Work-Charged post
		Steno	02	Work-Charged post
08.	Medical	Radiographer	01	Work-Charged post
		Lab Asst. Gr. III	01	Work-Charged post
		Cook	01	Revenue
09.	General Admin	Canteen	01	Revenue
Total			96	
* Surrendered of posts for Cadre upgradation from Level-7 to Level-8.				

2. Work Charged Non-Gazetted Posts:-

The details of work charged non-gazetted posts operated during FY 2022-23 are as under:-

S.No.	Deptt.	No. Of Posts	Period of Currency	
			From	To
1.	Others (Accounts)	15	01.07.2022	30.06.2023
	Total	15		

3. **Indent Position (Additional/Replacement):-** The detail of Indents placed and panel received during the year 2022-23 are as under:

Category	Indent placed	Panel received	Balance	Remarks
Supervisors	37	--	37	
Artisan	118	--	118	
Para- Medical	03	--	03	
Total	158	--	158	

4. **APPOINTMENT IN GROUP C & D AGAINST VARIOUS QUOTAS:-**
The detail of appointments on various quotas during the year 2022-23 is as under:

S.N.	Category	For the year 2022-23
1	Compassionate Ground	04
2	Sports Quota	-
3	Ex-Serviceman Quota	-
4	Physical Handicapped Quota	-
5	Crash Programme for wiping out shortfall of SC/ST	-
6	Casual Labour absorbed	-
7	No. of Staff Recruited Scout/Cultural Quota	-
8	Sub. B/Kh.	-
	Total	04

5. **Engagement of Act Apprentices:**
During the FY 2022-23, 99 candidates have been empanelled from Apprentice Mela. All have been directed to report Technical Training Centre, MCF/Raebareli.
6. **Settlement Dues:-**Total no. of cases in which payment of settlement dues has been made during the year 2022-23.

S. No.	Nature of Settlement	No. of Cases received	No. of Cases Settled	Balance Cases
1	Superannuation	12	12	Nil
2	Voluntary Retirement	2	2	Nil
3	Compulsory Retired	1	1	Nil
4	Resignation	Nil	Nil	Nil
5	Removal, Dismissal & Others	Nil	Nil	Nil
6	Medical Unfit Cases	Nil	Nil	Nil
7	Death Cases	1	1	Nil
	Total	16	16	Nil

* 5 DCRG withhold due to non-vacation of Railway quarter, for death cases.

* 04 DCRG withhold due to D&AR Case.

7. PROMOTIONS:-

During the year 30 no. of selections, suitability & Trade Test were conducted. 234 Non-Gazetted employees of various categories have been promoted. 01 employee of IT departments has been promoted to Group "B" Gazetted posts.

Besides, this all MACP cases due during the financial year have been finalized.

S. No.	Category	Number of staff promoted this year.
1	Gazetted	01
2	Supervisor	10
3	Ministerial	11
4	Artisan	170
5.	Group "D" to "C"	43
Total		235

8. Recruitment:-

12 candidates have been recruited in the following categories during the period of 2022-23.

S. No.	Category	Recruited
1	Supervisors	01
2	Ministerial	11
3	Technicians	00
4	Paramedical	00
5	Group-D/TADK	00
Total		12

9. BONUS:-

In the years 2022-23 Group-C&D staff of MCF/RBL has been Paid productivity linked Bonus detail of which is given below:-

No. of Employees 2022-23	Productivity Linked Bonus (In Rs.)
2043	3,63,12635/-

10. Salary Payment during 2022-23:-

Type of staff	Amount Paid
Gazetted	24,82,86020/-
Non Gazetted	1,52,36,17413/-
Total	1,77,19,03433/-

11. Disbursement of Advances for the year 2022-23:-

Following advances on various accounts had been disbursed during the year 22-23

HEADS	FUND ALLOTTED	FUND PAID	FUND BAL.	No. of Staff	Remark
HBA	Nil	Nil	Nil	Nil	Nil
M.CAR	Nil	Nil	Nil	Nil	Nil
M.CYCLE/ SCOOTER	Nil	Nil	Nil	Nil	Nil
COMPUTER	500000	500000	Nil	Nil	Nil
CYCLE	Nil	Nil	Nil	Nil	Nil
TOTAL	500000	500000	Nil	Nil	Nil

12. **Online Portals being operated at MCF/RBL:-**
 •CPGRAMS: Total 75 Grievances Disposed during the FY-2022-23.

13. **Welfare Activities:**

MCF celebrated World Heritage Day on 18.04.2022. During the day-long celebration, a range of programmes were conducted including a talk on the importance of Railway Heritage, Nukkad Natak and a poster competition of KVS student.



2. Anti Terrorism pledge was organised on 21st May, 2022 at Modern Coach Factory, Raebareli with social distancing guidelines. All officers & staff took anti-terrorism pledge solemnly at their working place.



3. Essay Writing Competition has been successfully organised on 27.09.2022 in subject of Cleanliness among the staff during Swachhta Pakhwada from 16th Sep. to 30th Sep. 2022.



4. Oath taking ceremony has been organised in MCF/RBL on 16th Sep.2022 during Swachhta Pakhwada from 16th to 30th Sep.2022.



5. Rashtriya Ekta Pledge was administered by Shri S.S Kalsi, General Manager/MCF/RBL on 31.10.2022. Pledge was also taken by officers and staff at Heritage Park/MCF/RBL.



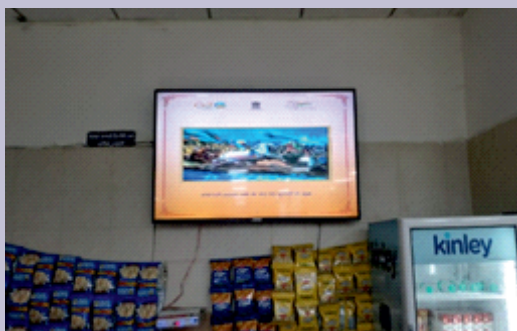
6. Run for Unity was organized at Heritage park/MCF/RBL on 31.10.2022. All the officers, staff and their families participated in the event.



7. Janjatiya Gaurav Diwas-2022 was observed at MCF/RBL, to commemorate the Birth Anniversary of "Dharti Aba Bhagwan Birsa Munda" on 15.11.2022. A short film based on his contribution to tribal movement was streamed at TTC Auditorium.



8. A documentary film has been displayed on the life of freedom fighter Sardar Udham Singh on 27th December, 2022 at Canteen Admin Building, MCF/RBL.



Medical Department

1. Daily average O.P.D. treatment is 184 at MCF/RBL hospital. Total 57343 patients were treated in 2022-23 in which 400 patients treated in IPD and 56943 patients treated in OPD.
2. Sanctioned strength of IRHS Doctors in MCF/RBL Hospital is 13 but only 07 regular Doctors and 03CMP doctor posted.
3. 08 Private hospitals have been empanelled with Modern Coach Factory Raebareli Hospital. List of Hospital is given below:-

SN	Name of Hospital	Address & contact No. of Hospital	Specialities for which hospital. has been empanelled
1.	Charakdhar Diagnostic Pvt. Ltd.Centre,Lucknow	292/05,Tulsidas Marg Basement Chowk, Lucknow-226003. Cont. No.: 0522-4062223,930554827	Diagnostic
2.	Nidan Diagnostic Centre, Lucknow	4/31 Vivek Khand Thana(Manoj Pandey Chauraha) Gomtinagar Lucknow Contact No.:-4016832,2393390	Diagnostic
3.	Chandra Mother & Eye Care Pvt. Ltd. Lucknow	4/43 Vivek Khand, Opp. Central School, Gomti Nagar, Lucknow, Contact No. 0522-4933333, 2397677, 2397757	Diagnostic
4.	Sun Eye Centre Lucknow	2D/NH 01,Vrindavan II,Raebareli Road,Lucknow	Diagnostic
5.	Ajanta Hospital & IVF Centre Pvt. Ltd. Lucknow	Kanpur Road, Alambagh Lucknow 226005 Contact No. 0522-4032888, 2462335	Multispecialty
6.	Charak Hospital & Research Centre Luckow	Dubagga Hardoi Road Lucknow.	Multispecialty
7.	Medanta the Medicity Global Health Pvt. Ltd ,Gurugram	Sector-38 Gurugram Haryana – 122001, Contact No- 0124- 4141414	Multispecialty
8.	Chandan Hospital,Lucknow	Faizabad Rd., Near Chinhat Flover Vijaykant Khand, Gomti Nagar Lucknow 226010	Multispecialty
9.	K K Hospital,Lucknow	Nabiulla Road River Bank Colony Near Suraj Kund park Lucknow	Multispecialty
10.	Chandra Mother & Eye Centre Lucknow	Chandra Tower,TC -13 V-III Vibhuti Khand Gomti Nagr Lucknow	Eye treatment
11.	Nidan Diagnostic Centre, Lucknow	4/31 Vivek Khand,Near Thana(manoj Pandey Chauraha), Gomti Nagar, Lucknow.	Radiology
12.	Charak Diagnostic Centre, Lucknow	292/05,Tulsi Das Marg,Chowk, Lucknow	Radiology

4. Regular indent for medicine are being placed for procurement through store department.
5. Urgently required drugs are procured through Local Purchase.
6. Total 6023 patients were referred during the year, out of these 5824 patient referred to Empanelled hospital and 199 patients referred to govt. Hospital.
7. 7th Outreach training programme for paramedical -Pharmacists from 17.10.22 to 20.10.22 was organized in MCF, Raebareli. Pharmacist of all Indian Zonal Railway and Production unit were participated in training programme .
8. 02 ALS Ambulance on contract basis and 01 BLS Railway ambulance is available at MCF/Hospital
9. The medical examination of new appointee and employees are being conducted at MCF/RBLHospital.
10. Fogging and Anti Malaria Spray have been conducted in Prashanti Parisar and factory site regularly.
11. Medical team of doctor and nurse were sent to Central School, MCF/RBL from 21.09.2022 to 30.09.2022 for medical examination (Medical Health Scheme) of students.
12. HMIS has been implemented in MCF/RBL hospital through OPD registration, Doctors prescription, Pharmacy & Drug store and Emergency registration, Pathology Lab, referral Service Sick/Fit Module as a step in the direction of paperless hospital.

1. Emergency/IPD Ward:

17 bedded fully operated Emergency ward with Patient table, Crash Cart Trolley with all Drugs ECG machine, 5 Para monitor, Defibrillator, Suction Machine, Oxygen & CPR.



2.Minor OT:



3.Radiology Wing: 500mA Allenger X-ray Machine



4.Pathology Wing: Automated Chemistry Analyser Machine



Automated Haematology Machine



5.Ambulance Service :

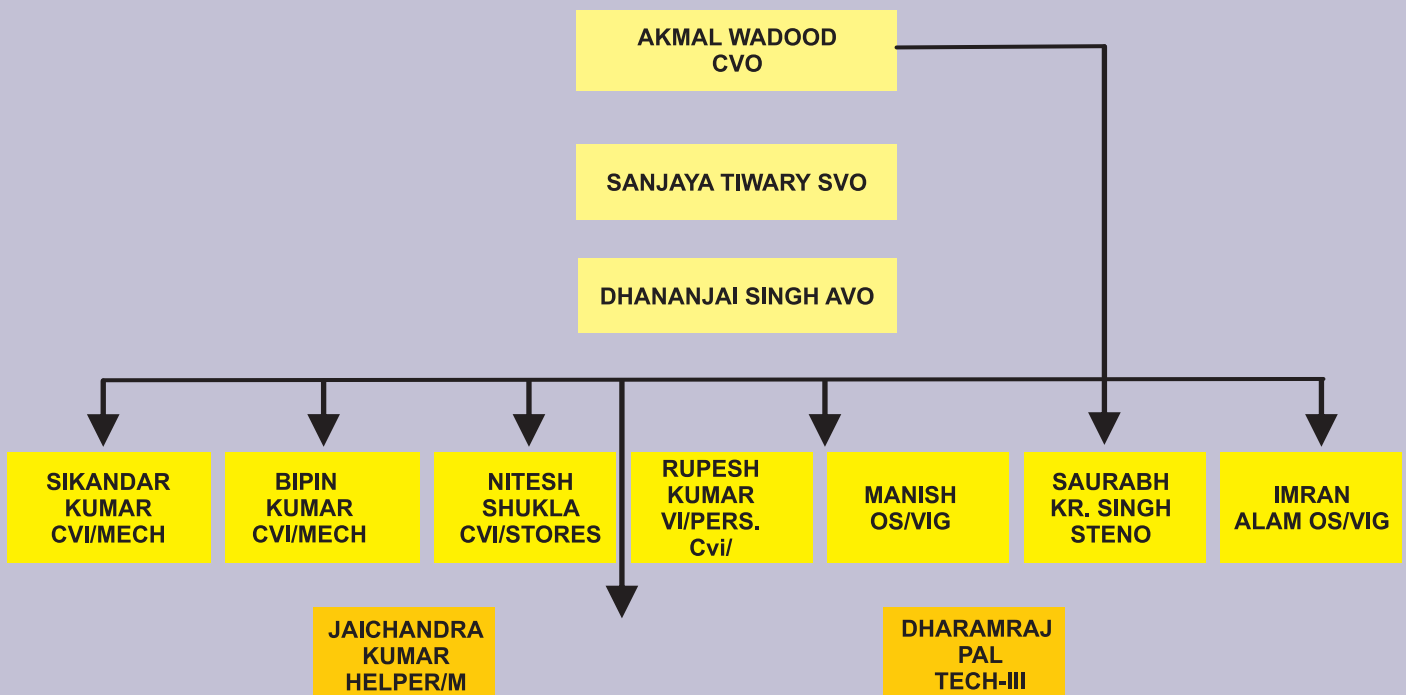


6. Medical Health Check up in Central School :-



VIGILANCE

Organisation chart of Vigilance Department.



► Summary of Cases:-

In year 2022-23, 54 Railway Board referred complaints, 111 other (Direct/Other Railway referred) complaints & 02 PIDPI complaint have been received.

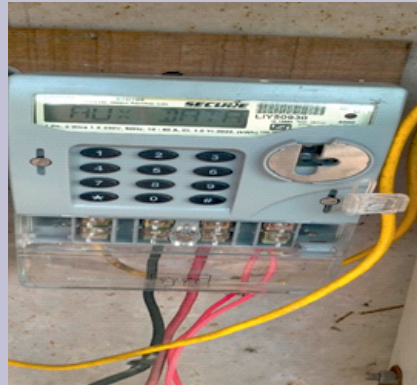
► Achievement:-

- (i) During the year 2022-23, 167 vigilance complaints have been received including 54 Railway Board referred complaints, 111 others (Direct/Other Railway referred) complaints & 02 PIDPI complaint. Out of 167 vigilance complaints, 148 complaints have been closed (87 Closed due to being pseudonymous, 52 due to administrative action and balance 09 closed after investigation), and balance 19 complaints are in advance stage of investigation.
- (ii) During the year 2022-23, 11 System Improvements have been issued for transparent working.
- (iii) The Vigilance Awareness week, 2022 was observed at Modern Coach Factory, Raebareli from 31.10.2022 to 06.11.2022 as per directives issued by Railway Board. The main theme of this year's Vigilance Awareness Week was "Corruption Free India for a developed Nation "भ्रष्टाचार मुक्त भारत – विकसित भारत". Various activities conducted during this week viz.
 - Vigilance pledge in administrative building & workshops premises.
 - Pamphlets, posters and hoarding exhibiting.
 - Anti-corruption themes were distributed and displayed at prominent places in admin building, workshop and township premises.
 - Webinar on policies/procedures of the organisation and preventive vigilance measures, Works Contract/Works on Quotation/Execution of turnkey contract, Stores Contract for officers, employees and other stake holders and customer/vendor,
 - Customer/Vendor grievance redressal camp

- E-meet were organised.
- Essay writing competition on the topic "Corruption Free India for a developed Nation "भ्रष्टाचार मुक्त भारत – विकसित भारत" was organised at Ganesh Inter College, Aihar in which 70 students have participated.
- Cartoon/Poster/Essay writing competition on the theme "Corruption Free India for a developed Nation "भ्रष्टाचार मुक्त भारत – विकसित भारत" was organised in Central School, MCF/RBL, in which about 150 students have participated.
- Nukkad Natak on Vigilance Awareness theme was organised by Sanskritik Sanghathan.
- A separate Quiz Competition for Gaz. Officer & Non-Gaz. Officials was organized, in which 60 officers & Employees have participated
- Run for Vigilance highlighting Vigilance Awareness theme was organized in which 100 persons including children have participated.
- E- Vigilance Bulletin, 2022 has been released by the General Manager/MCF.
- A prize distribution ceremony was also held at conference room, administrative building. Prizes were distributed by CVO/MCF to all winners of essay writing/poster/cartoon competition organised during Vigilance Awareness Week' 2022 at schools and colleges.
-

ELECTRICAL

- A. Power supply system of MCF/RBL consists of the following:
1. 132/11 KV MRS (Main Receiving SubStation) – 02 X 12.5 MVA Transformer
 2. 33/11 KV Sub Station (ASS) - 01 X 10 MVA Transformer
 3. Auxiliary SubStation (ASS) – 10ASS X 03T/F +2 T/F=32 no. each 750 kVA Transformer + 02 nos. 800kVA Transformer
 4. Compact SubStation (CSS) – 11 X 750 kVA – 11 nos. Transformer
 5. Compact SubStation (Solar CSS) – 03 X 1250 kVA – 03 nos. Transformer
 6. Solar Power Plant -
 - (a) Installed Capacity - 3MW (Land based, grid connected, MCF Owned-Capex Mode)
 - (b) An additional 14 MW Rooftop solar plant (Opex Mode/ Esco mode) is under bidding through REMCL.
 7. DG sets
 - a) 04 X 1010 kVA installed at 132/11 kV MRS
 - b) 02 X 380 kVA DG set, One at MCF hospital (at present L2- Covid hospital), another one is used as a portable genset in the factory area of MCF.
 - c) 01 X 125 kVA DG set at PME Office / ORH Lucknow.
 - d) 01 X 10 kVA DG set at MRS for emergency control supply
 - e) 01 X 30 kVA single phase at ORH.
 - f) 02 X 30 kVA (received from IRCON)
 - g) 01 X 82.5 kVA (received from IRCON)
- B. Sanctioned Load-
- 1000 kVA at 132 kV line, UPPTCL (under open access)
1000 kVA at 33 kV line, UPPTCL (under open access)
- C. Energy details -
- Energy consumption during F.Y. 2022-23 – 183.96 Lakh units
Power generation by solar plant during F.Y. 2022-23 – 37.74 Lakh units
- D. Miscellaneous Electrical Assets:
- Total no. of Day Light Pipes – Approx. 1751 nos. (in factory and TTC area)
- E. Energy Conservation/ Expenditure Control measures
1. Work of new testing shed for T-18 and MEMU has been completed at MCF during the year.
 2. Phase-I of Modernisation of workshop at AMV/LKO and WRS/Kota have been completed during the year.
 3. Three (03) nos. Old submersible pumps of 30hp capacity for water supply arrangement at MC have been replaced with new energy efficient pumps.
 4. All vendors of shopping complex have been migrated to the prepaid system for electrical energy. At present 45 prepaid connections are issued.



5. During the year, 396 nos. of quarters have been energized with smart energy meters and metering is being done with automatic systems on these smart energy meters.
6. Energy conservation day has been observed on 14.12.2022. During the week from 14.12.2022 to 20.12.2022 various activities were conducted viz. awareness to staff, display of posters, banners and stickers to promote energy conservation among stakeholders.
7. Energy consumption through the Grid is 146.37 lakh units in F. Y. 2022-23 as compared to 156.72 lakh units in F. Y. 2021-22. Energy consumption has decreased by 6.60%. The consumption is based on SCADA reading.
8. By its 3MWp solar plant, MCF has achieved a saving of 37.74 lakh units during F. Y. 2022-23, monetary value approx. 1.89 Cr.
9. Both the power supply connections (132kV and 33kV) have been migrated on open access. This resulted in saving of Approx. ₹3.65 Cr during the year.
10. A policy for prevention of theft of electricity has been implemented at MCF/RBL.

F. Safety Measures

1. LV safety audit for two installations have been done at MCF/RBL in reference to Railway Board guideline (No. 2021/EEM/113/1 dt: 18.10.2022).
2. To increase safety and reliability, the damaged /missing pole cover are replaced with new one. A total 188 pole covers have been provided for this purpose.
3. All protective relays of the power supply system have been checked for proper functioning during the year.

G. Reliability Measures

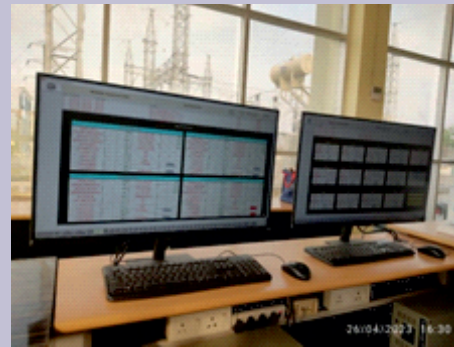
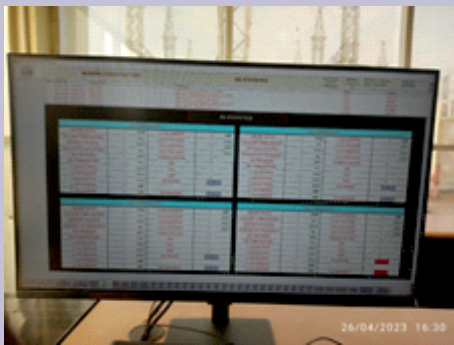
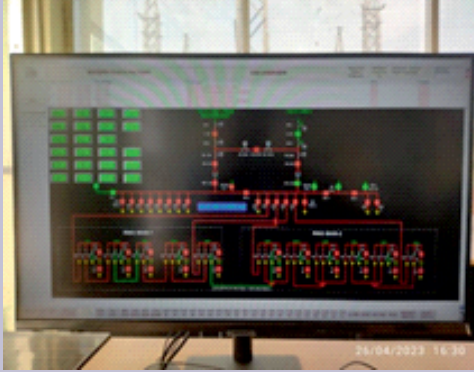
1. 132/11 kV transformer has been repaired and put in service after replacement of damaged bushing.



2. Real time telemetry for energy monitoring system has been installed at MCF/RBL during the year.

meter_details	Time	Voltage KV	Current A	Power MW	MVA	Power Factor	Frequency	Energy Import MWh	Energy Export MWh	Demand MW	MVA	Quality
MCF_132KV_MMS	2023-03-11 14:38:30	138.24	8.58	0.02	0.02	0.95	49.54 Hz	0	0	0	0.01	1
MCF_33KV_S5	2023-03-11 14:38:30	34.58	0.95	0.01	0.04	0.77	49.54 Hz	712.56	4.50	0	0.05	1

3. Total 481 street lights were repaired and put in service by replacing driver/controller during the year.
4. An RF based SCADA system has been installed and commissioned for monitoring of electrical assets and operation of switchgear. This eliminates disruption due to OFC cut.



H. Staff Amenity

1. Five (5) nos. Industrial type coolers have been provided at the worker canteen to improve staff amenity during the year.



2. An outdoor type music system has been provided at the central park of MCF/RBL for facilitating employees of MCF/RBL.



SECURITY BRANCH

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 64 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 Pr. Chief Security Commissioner/RPF, Modern Coach Factory, Raebareli.

RPF Strength

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 PCSC/RPF/NR. The Members of the Force are regularly trained to update their Soft & Hard Skills. The Present Strength for the year 2022-23 of the RPF Personnel is as under:

Description	PCSC	SC	ASC	IPF	SI	ASI	HC	Const	Total
Sanction Strength	01	01	01	02	08	09	11	31	64
Present Strength	01	-	01	01	05	09	03	40	60
Vacancy	-	01	-	01	03	-	08	+9	04

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 24 months from the date of actual commencement of the work (from 01.12.2022 to 30.11.2024) for Guarding the Railway Property in the identified Non-Core Areas, having a strength of 135 Security Guards.



CRIME CONTROL

During the year 2022-23, the RPF unit of MCF was able to successfully implement the Zero Tolerance Policy towards the criminal activities due to which 03 cases of theft of Railway Property were registered with recovery of Railway Property total value Rs. 12500/- and arrested 05 accused and 79 cases of Railway Act were registered with the fine of Rs. 72000/-. 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.



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

S.N.	Arms	Quantity	Silling	Ammunitions	Spare Magazine	Bayonet	Nozzal Cap
1.	Rifle 7.62 mm{SLR} IAI	04 Nos.	--	870 Nos.	16 Nos.	--	--
2.	ARM 7.62x39mm ARM	05 Nos.	05 Nos	650 Nos.	20 Nos.	05 Nos.	--
3.	Rifle 5.56mm{INSAS} fold Butt 2A	08 Nos.	08 Nos.	760 Nos.	40 Nos.	04 Nos.	08 Nos.
4.	Pistol Auto 9mm with Magazine	22 Nos.	--	1195 Nos.	44 Nos.	--	--
5.	Carbine Machine Gun 9mm IA. IAI	08 Nos.	--		24 Nos.	--	--
Total =		47 Nos.	13 Nos.	3475 Nos.	144 Nos.	09 Nos.	08 Nos.



MODERNISATION

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

Name of the Security Item	Quantity
Baggage Scanner	01 Nos.
Bullet Proof Jacket	06 Nos.
Bullet Proof Helmet	10 Nos.
Polycarbonate Shield	20 Nos.
Polycarbonate Lathi	75 Nos.
Sony Camera	02 Nos.
Dragon Search Light	05 Nos.
HHMD	15 Nos.
DFMD	02 Nos.
Drone Camera (UAV)	02 Nos.
Walkie-Talkie	25 Nos.
VHF sets	04 Nos.

ACCESS CONTROL







The entry/exit process at factory gates & Township gate has to be made contactless through proximity card. Therefore, the electronic gate pass system is being implemented. The system shall have the following features:


- (i) This system will be integrated with the electronic PVC card & RFID Based identification System at the Entry/Exit Gates.
- (ii) This system is also essential for improving punctuality & to maintain discipline in duty time of contractual workers engaged for factory as well as Prashanti Parisar premises.

05 Nos. of Automatic Boom Barriers have been installed at the entry gate of Factory premises for regulating traffic control.





SPORTS

01. Sports Facilities in Modern Coach Factory, Raebareli (a) Indoor Sports Facilities

S.No.	Event	PICS
01	<ul style="list-style-type: none"> ● Squish Court/Hall ● Basketball (Indoor) ● Aerobics Hall ● Table Tennis ● Taekwondo ● One Kabaddi Mat ● One Multi games Mat ● One Boxing Ring ● GYM (Men) ● GYM (Women) 	 
02	<ul style="list-style-type: none"> ● Two Wooden Badminton Courts 	
03	<ul style="list-style-type: none"> ● Wooden Basketball Court (Indoor) ● Wooden Volleyball Court (Indoor) 	
04	<ul style="list-style-type: none"> ● Gymnasium Hall (Men's) 	
05	<ul style="list-style-type: none"> ● Gymnasium Hall (women's) 	

<p>06</p>	<ul style="list-style-type: none"> ● Squish Court/Hall 	
<p>07</p>	<ul style="list-style-type: none"> ● Five tables for Table Tennis 	
<p>08</p>	<ul style="list-style-type: none"> ● One Billiards table 	

(b) Outdoor Sports Facilities

S.No.	Event	PICS
<p>01</p>	<p>Athletics Stadium</p>	
<p>02</p>	<p>Cricket Stadium</p>	
<p>03</p>	<p>Swimming Pool Stadium</p>	
<p>04</p>	<p>Basketball Court (with flood lights)</p>	

<p>05</p>	<p>Lawn Tennis Court (with flood lights)</p>	
<p>06</p>	<p>Hockey Astro-Turf</p>	
<p>07</p>	<p>Golf Course (18 Holes) with Driving range</p>	
<p>08</p>	<p>Sports Hostel (Under Construction)</p>	

02. Achievements at various levels.

2.1 Modern Coach Factory Sports Association has organized various interdepartmental sporting activities during 2022-23 as mentioned in table below:

Sl. No.	Event description	Date	Month
01	65 th All India Railway Golf Championship 2022	08.03.2022 to 10.03.2022	March - 2022
02	87 th All India Railway Athletics Championship 2022	29.08.2022 to 31.08.2022	August - 2022
03	43 rd All India Railway Volleyball (Women) Championship 2022	12.11.2022 to 16.11.2022	November -2022
04	Aquatics Championship.	28.09.2022	September-2022
05	GM Cup 2022 Night Cricket Tournament	13.01.2023 to 21.01.2023	Jan - 2023
06	80 th All India Railway Hockey(Men) Championship 2022-2023	20.03.2023 to 25.03.2023	March-2023

2.2 Cricket

Sh.Vikash Chaoudhary, Ch.OS Stores department was nominated as Trainer to represent Indian Railways in Sr. Women Cricket team coaching camp to be held at Secundrabad from 20.03.2022 to 19.04.2022.

Sh.Vikash Chaoudhary, Ch.OS Stores department was selected as Trainer to represent Indian Railways in Sr. Women T-20 trophy 2021-22 to be held at Rajkot/Surat from 01.04.2022 to 04.05.2022.

MCF Cricket team has been participated on 65th All India Railway (Men) Cricket Championship 2021-2022 at DMW -Patiyala from 05/05/2022 to 11/05/2023

Sh.Vikash Chaoudhary, Ch.OS Stores department was nominated as fitness trainer for Indian Railway Senior Women Cricket coaching camp from 15.07.2022 to 07.08.2022 at KSS/New Delhi.

Sh.Vikash Chaoudhary, Ch.OS Stores department was selected as Trainer to represent Indian Railways in Sr. Women T-20 trophy 2022-23 (League Matches) to be held at Bangalore. From 31.10.2022 to 05.11.2022.

Sh. Naveen Chandra Bhatt, Sr. Tech. was nominated as Pitch Curator & Sr, Ground men workshop to be held at Kanpur from 02.08.2022 to 04.08.2022.

MCF Cricket team has been participated on 66th All India Railway (Men) Cricket Championship 2022-2023 at RCF, Kapurthala from 18/03/2022 to 25/03/2023

MCFSA is organizing a Golf, Cricket, Hockey, Football, Badminton, Boxing & Athletics coaching camp at MCFSA sports Complex for children of MCF Employees & others.

2.3 Athletics Team

Ms. Sudha Singh OSD/Sports has been selected in the National Athletics Coaching camps held at SAI NSSC/Bangalore from 01.01.2022 to 31.03.2022. & 01.04.2022 to 15.09.2022.

MCF team has participated in 87th All India Railway Athletics Championship 2022 conducted by (MCF) Raebareli from 29.08.2022 to 31.08.2022. Kumari Nanhi, Jr. Clerk. has secured Silver Medal in 400 hurdle Race.

Kumari Nanhi, Jr. Clerk has been selected in the 61st National Open Athletics (M&W) Championship to be held at Bangalore from 15.10.2022 to 19.10.2022.

2.4 Boxing & Wrestling

Shri Sandeep Kumar, Tech –II has been nominated as a Attendant of Indian Railway Wrestling (Men & Women) Team Coaching Camp at Delhi from 04.04.2022 to 16.04.2022 and participation in the 2022 Federation Cup (Senior) at Ranchi from 17.04.2022 to 19.04.2022.

Shri Sandeep Kumar Tech–II has been nominated as attendant of Indian Railway Wrestling (Men & Women) Team Participate for 2022 Senior Men Free Style, Greco Roman Style & Women National Wrestling Championship to be held at Visakhapatnam from 21.12.2022 to 23.12.2022.

2.5 Golf

First time MCF team participated in 65th All India railway Golf Championship 2022 at Modern Coach Factory, Raebareli from 08.03.2022 to 10.03.2022.

MCF Golf Team participated in 66th AIR Golf Championship 2022-23 at BLW, Varanasi from 13/03/2023 to 15/03/2023.

2.6 Badminton

Dr.Manish Kumar, DMO, Emp.No.22729804881 has been selected in U.P Para Badminton Team for 5th Nationals Para Badminton Championship 2023 held at Lucknow from 22/03/23 to 26/03/2023.



MODERN COACH FACTORY

RAEBARELI-229120

Website: mcf.indianrailways.gov.in



Track Recording Car



Smart Coach



AC Pantry Car



Vande Bharat Shell



Mozambique Coach



Tejas Coach



Humsafar