



**MECHANICAL (C&W) DEPARTMENT**  
**SEALDAH DIVISION**

Mechanical (C&W) Department of Sealdah division is headed by Sr. DME with 06 (four) Assistant Officers working under him.

HEAD OF THE DEPARTMENT : **ROHIT RANJAN**

DESIGNATION : SR.DIVISIONAL MECHANICAL ENGINEER (Co)  
EASTERN RAILWAY, SEALDAH.

ADDRESS : OFFICE OF THE DIVL.RLY.MANAGER,  
1<sup>ST</sup> FLOOR, ROOM No.41 & 42,  
SEALDAH, KOLKATA – 700 014

CONTRACT DETAILS : 32600 (RLY), 033-23542499 (FAX)

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**4 b) (i) Particulars of Organization, Functions and Duties**

The Mechanical C&W Department has contributions in the following fields:

- There are 06 depots under Sealdah Division handling both Coaching and Wagon activities:
- 1. SEALDAH - It is a mega coaching depot maintaining total Twenty Six (26) Mail/Express/Passenger trains, out of which 24 Nos. Primary Maintenance trains and 02 Nos. Round Trip Maintenance Trains. It also consists of 01 Mechanized Laundry capacity of 04 Tons per shift. Work suspended from Jun'2020 as per order of competent authority. 01 Bio-Toilet Effluent Testing Laboratory is also available.

2. CHITPUR – This depot maintains both rolling stock Coaching & Goods; maintaining total Thirty Five (35) Mail/Express/Passenger trains, out of which 24 Nos. Primary Maintenance trains, 03 Nos. Secondary Maintenance and 08 Nos. Round Trip Maintenance Trains. Apart from this, it also maintains 01 Automatic Coach Washing Plant (ACWP) and 01 Mechanized Laundry inaugurated on 25/06/2020 functioning will be started from 15/09/2022 by M/s. Band Box Ltd.  
Chitpur Depot also consisting of Freight Maintenance Yard of Close Circuit Rake, Premium Examination and End to End Examination of round the clock and Goods Sick Line for repair of unloadable and heavy repair.
3. NAIHATI – This depot deals only with Freight Stock such as Intensive examination of Close Circuit Rake, Premium Examination & End to End Examination, Sick Line repair, examination & unloadable and other repair of BDR & other bound trains. Naihati Depot consisting separate ROH Shed for ROH of various types of stock such as BCN, BFKHN, BLL, BLC, BTPN etc. ROH shed equipped with EOT Crane, Wheel turning Lathe, Mounting & Dismounting facilities of bearings have been constructed.  
'C' Category of unloadable wagon repair has been started from 11/07/2022 by M/s. N.F. Forging. During 2022-23 (upto Feb'23) total 152 wagons "C" category repaired done.  
Retro fitment of twin pipe wagon repair work going on during 2022-23 (upto Feb'23) total 845 wagons has been converted to twin pipe system.  
During ROH of BLC wagons, modification also be done from BLC to BLCM, which will help Railways to generate more revenue. During 2022-23 (upto Feb'23) total 100 wagons modified from BLC to BLCM during ROH.  
Outturn of newly built wagons from TWL and TEXMACO/SOD examine and necessary fitness given by these depot.  
Condemnation and disposal of C&W stock is done at RE Siding/Naihati.
4. RANAGHAT – Mainly dealing with checking/examination, billing of damage & deficiency for Bangladesh bound trains via Gede-Darsona and Petrapole-Benapole International Border Including execution of customs clearance activities. There is also an 'B' Class ART & ARMV in this depot.
5. BUDGE BUDGE AND MAJHERHAT– This depot mainly deals with End to End examination of newly built BOXN wagon and attended road side incident at Budge Budge area.  
Majerhat depot is under control of Budge Budge Depot, attended Close Circuit rake, Premium examination & End-to-End rake examination & repair work of BLC & BFKHN rakes of CONCOR.  
Outturn of newly built wagons from BWL examine and necessary fitness given by these depot.
6. KRISHNAPUR – This depot is situated at extreme end Murshidabadh Dist. (W.B.). Only Kolkata Sealdah Lalgola bound Trains are attended this depot as terminal examination. Turn around maintenance of 03 Mail/Express & 04 Passenger trains is done here.

## **4 b) (ii) Power and duties of Officers and employees**

### **1. Sr.DME(Co)/SDAH**

Overall In-Charge of Carriage & Wagon wing and Environment & Housekeeping Management, for carrying out prescribed integrated maintenance of coaches & wagons and Green Cell project. In charge of conducting inspections periodically and monitor proper upkeep of ART/RHA including execution of periodic drills. Ensure implementation of recommendations of High Level Committee Report on Disaster Management & Safety Action plan.

Sr. DME(Co)/SDAH is also a Co-ordinator of Procurement of all M&P Items under Plan Head-41 at Divisional Level (DRM LS).

Co-ordinator of M&P items condemnation when scrap value more than Rs.50,000/-

### **2. DEnHM/SDAH**

In-Charge of Environment & Housekeeping Management Wing. Monitoring and coordination functions for all environment related issues and planning, sanction and execution of environment related works.

### **3. DME/C&W/SDAH**

Ensure integrated maintenance of Sealdah depot coaching stock. Assist Sr.DME (Co) in respect to prescribed integrated maintenance of coaching stock in the Division. Give special emphasis on proper maintenance of safety related parts of coaches. Liaison with DEE(G) for maintenance of coaches. To keep liaison with AOM/Coaching for timely placement of rakes and detachment of coaches for maintenance.

### **4. AME/NCC/SDAH – (Post vacant)**

Ensure integrated maintenance of Sealdah & KRP depot coaching stock. Implement directives of Sr.DME/SDAH given from time to time and give him feedback. Ensure Mechanized Laundry & Bio-Toilet Laboratory activities. Carry out all other work as and when assigned by Sr.DME (Co).

### **5. AME/C&W/CP**

Ensure integrated maintenance of Chitpur depot coaching & Wagon stock. Implement directives of Sr.DME (Co)/SDAH given from time to time and give him feedback. Carry out all other work as and when assigned by Sr.DME (Co).

### **6. AME/C&W/SDAH (Post vacant)**

Ensure integrated maintenance of NH, RHA, BGB& MJT depot Wagon stock. Implement directives of Sr.DME (Co)/SDAH given from time to time and give him feedback. Carry out all other work as and when assigned by Sr.DME (Co).

### **7. AEnHM/SDAH**

Ensure integrated Environment & Housekeeping Management Wing. Monitoring and coordination functions for all environment related issues and planning, sanction and execution of environment related works. Ensure integrated maintenance of NH, RHA, BGB& MJT depot Wagon stock. Implement directives of

Sr.DME (Co)/SDAH given from time to time and give him feedback. Carry out all other work as and when assigned by Sr.DME (Co).

#### **8. DEPOT IN-CHARGE**

All Depot In-Charges ensure integrated maintenance of SDAH, CP, NH, RHA, KRP, & BGB depot coaching and wagon stock. Implement directives of Sr.DME(Co)/SDAH given from time to time and give him feedback. Carry out all other work as and when assigned by Sr.DME(Co).

#### **4 b) (iii) Procedure followed in the decision making process including channels of supervision and accountability.**

1. As per the limitations framed in Schedule of Powers (SOP) for various aspects such as establishment, stores and miscellaneous matters, decision is taken at the appropriate level.
2. As far as train working is concerned, Working Time Table (WTT) of latest edition is followed apart from General and Subsidiary Rules (G&SR).

#### **4 b) (iv) Norms set for discharge of functions**

1. As per the targets fixed by Hd. Qrs.
2. As per the targets fixed by Railway Board.

#### **4 b) (v) Rules, regulations, instructions, Manuals & Records used for discharging its functions**

1. Modified Schedule of Powers (MSOP).
2. CAMTECH Freight maintenance.
3. CAMTECH Coaching maintenance (ICF).
4. CAMTECH Coaching maintenance (LHB).
5. Maintenance C&W Manual.
6. RDSO Freight maintenance manuals.

7. IRCA Rule Book.
8. RPC No. 4
9. Working Time Table (WTT).
10. G&SR Rules.
11. CMM portal for coaching stock.
12. FMM Portal for Freight stock.

**4 b) (vi) Statement of categories of document that are held by it or under its control**

1. As per delegation of power.
2. Rolling stock maintenance guide line on technical issues.
3. Maintenance pattern guide line of Rolling stock.
4. Rolling stock operation guide line.
5. Disciplinary action guide line.
6. Online record keeping.

**4 b) (viii) Statement of the boards, councils, committees and other bodies constituted**

1. Mechanical (C&W) department of Sealdah Division.

**4 b) (ix) Directory of its employees and its officials**

CUG as well as Railway Phone numbers of the officials in this branch

| Sl No. | Name                     | Designation      | Mob. No.   |
|--------|--------------------------|------------------|------------|
| 1.     | Sri Rohit Ranjan         | Sr. DME(Co)/SDAH | 9002021400 |
| 2      | Sri Pritiwish Halder     | DEnHM/SDAH       | 9002021425 |
| 3.     | Mis. Divya Verma         | DME/C&W/SDAH     | 9002021401 |
| 4.     | Vacant                   | AME/C&W/SDAH     |            |
| 5.     | Sri Amarjeet Vera        | AME/NCC/SDAH     | 9330028422 |
| 6.     | Sri Anurag Singh         | AME/C&W/CP       | 9002021482 |
| 7.     | Sri Dhana Chandra Barman | ADEnHM/SDAH      | 9002021448 |

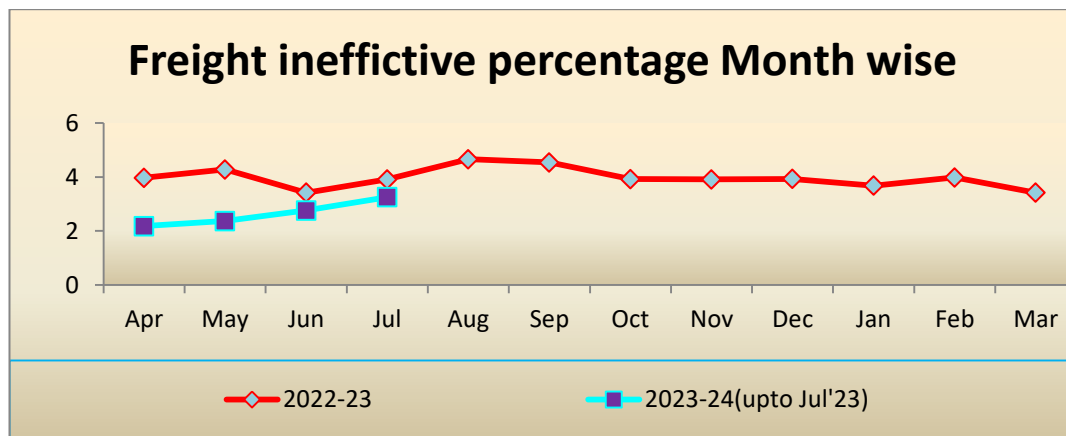
## 5. GOOD WORK DONE 2022-23:

### I. Freight ineffective percentage:

During the month of Jul'23, ineffective percentage of Freight Stock is 3.25 against the Target of 3.5.

| Activities          | Target | 2022-23<br>(upto Jul'22) | 2023-24<br>(Upto Jul'23) | %-age of improvement with<br>respect to Target | %-age of improvement<br>with respect to last year |
|---------------------|--------|--------------------------|--------------------------|------------------------------------------------|---------------------------------------------------|
| Freight ineffective | 3.5    | 3.90                     | 3.25                     | 7%                                             | 17%                                               |

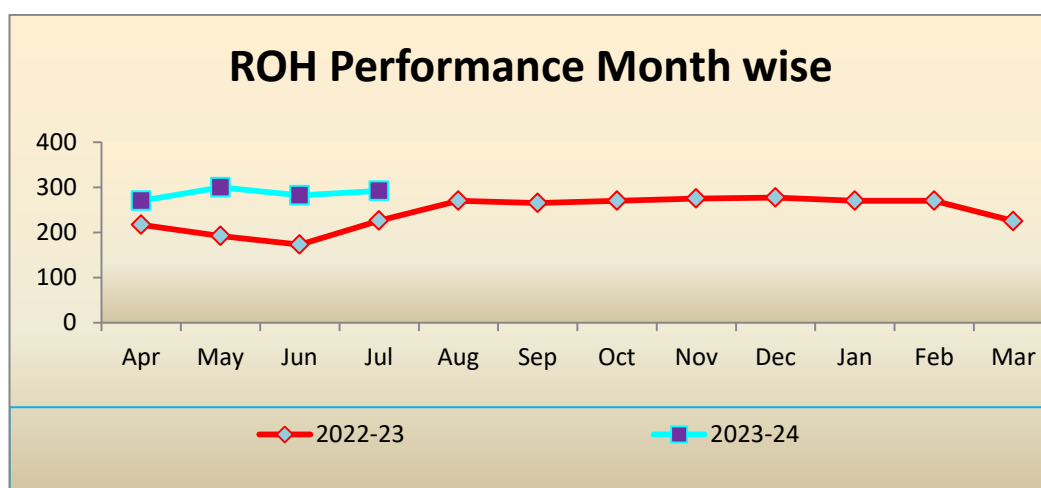
| YEAR    | APR  | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR  | Avg./M |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|--------|
| 2022-23 | 3.97 | 4.28 | 3.42 | 3.90 | 4.66 | 4.54 | 3.92 | 3.91 | 3.93 | 3.68 | 3.98 | 3.42 | 3.97   |
| 2023-24 | 2.18 | 2.37 | 2.76 | 3.25 |      |      |      |      |      |      |      |      | 2.64   |



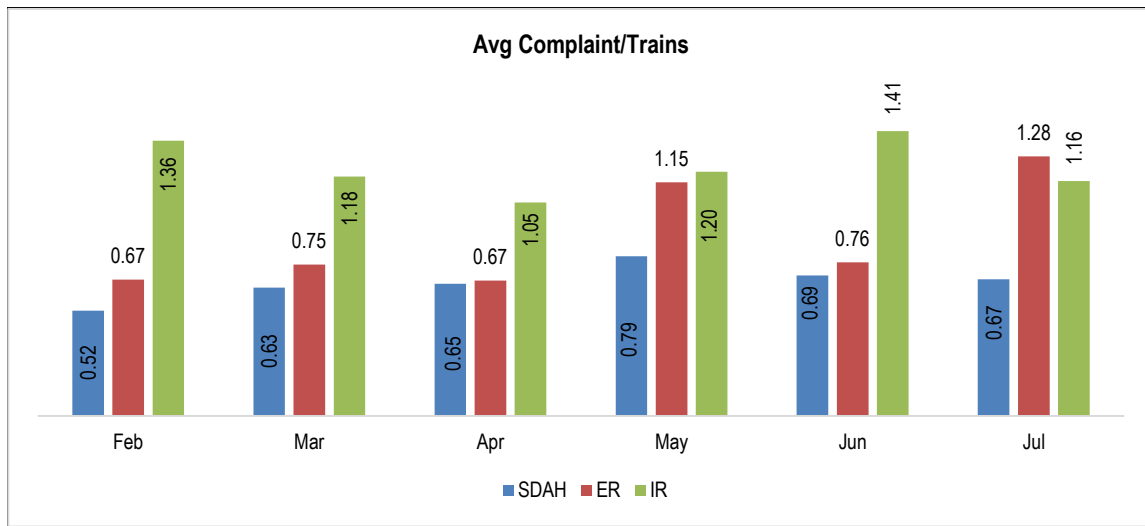
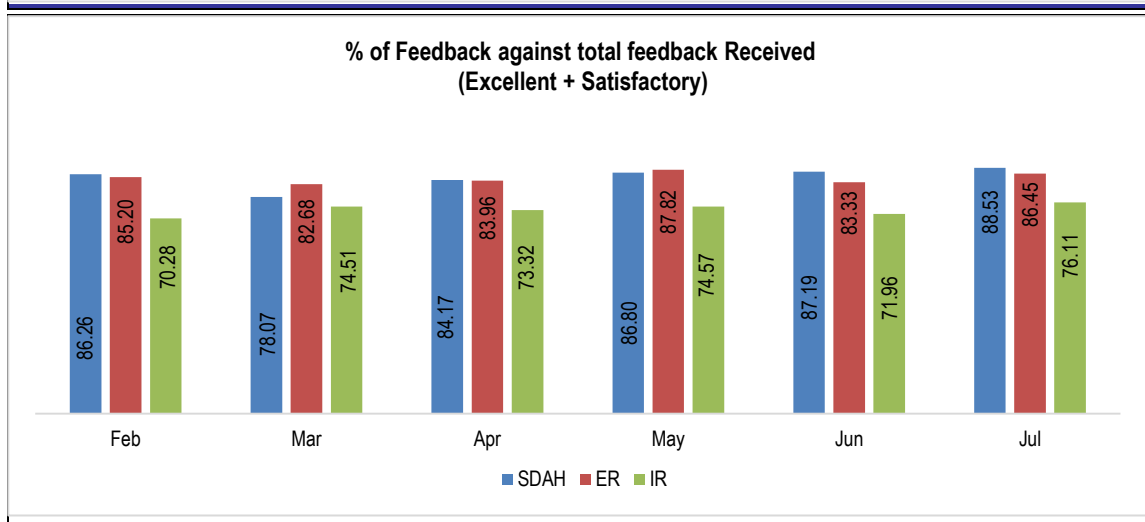
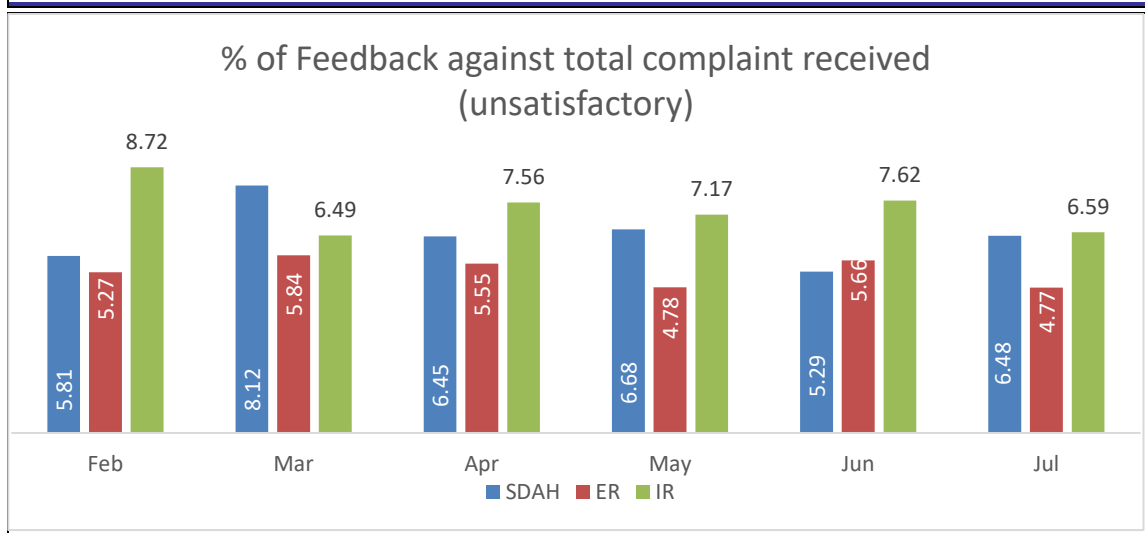
### II. ROH out turn in Naihati Depot:

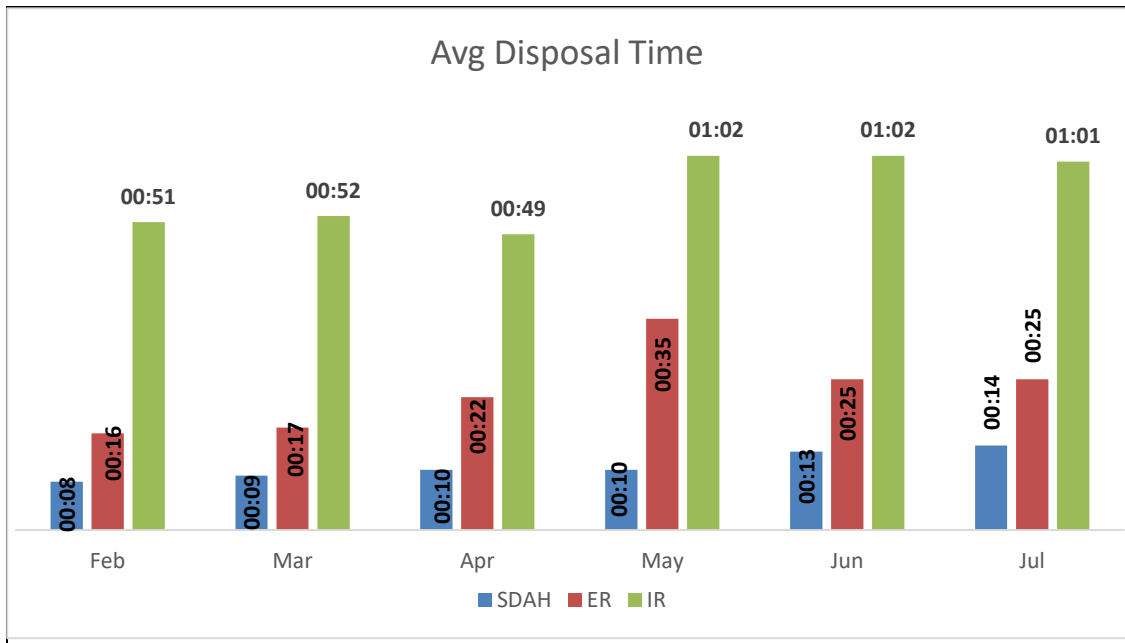
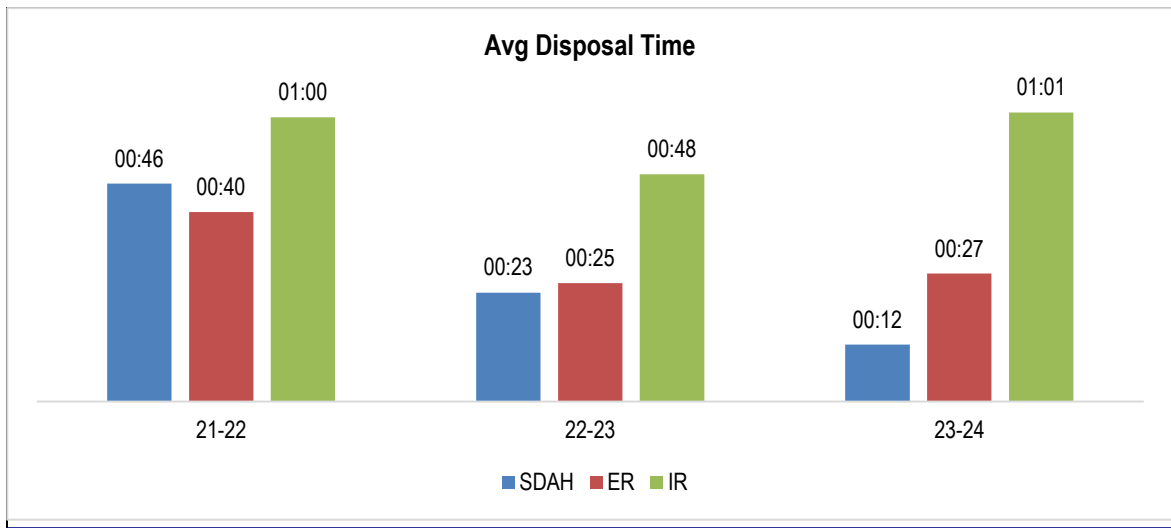
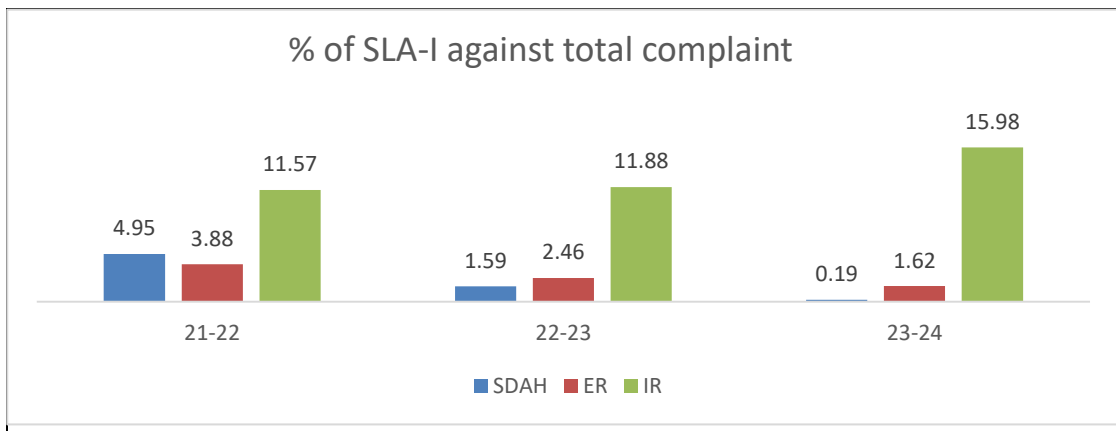
ROH outturn of 292 wagons achieved in the month of Jul'23 against the monthly target of 290 wagons.

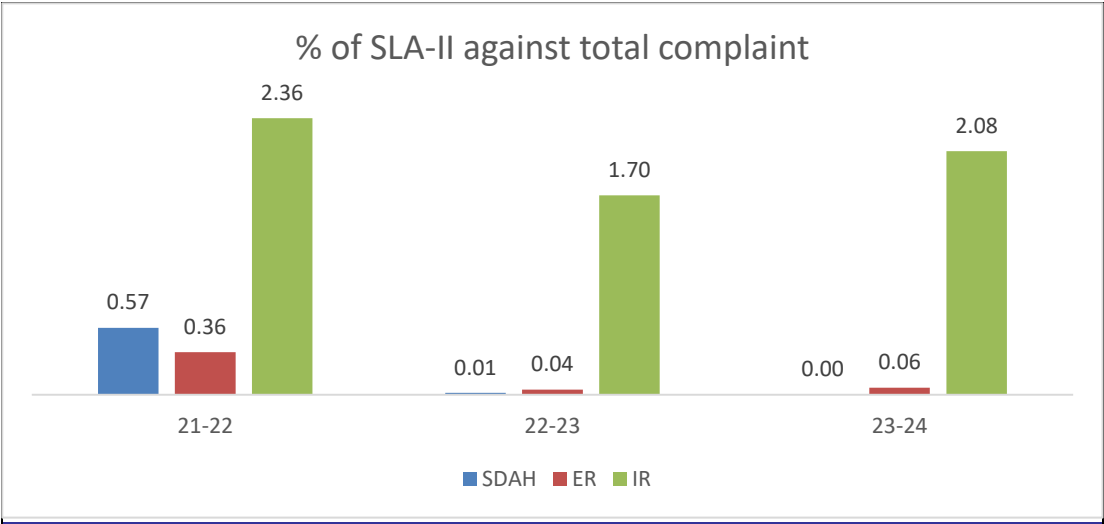
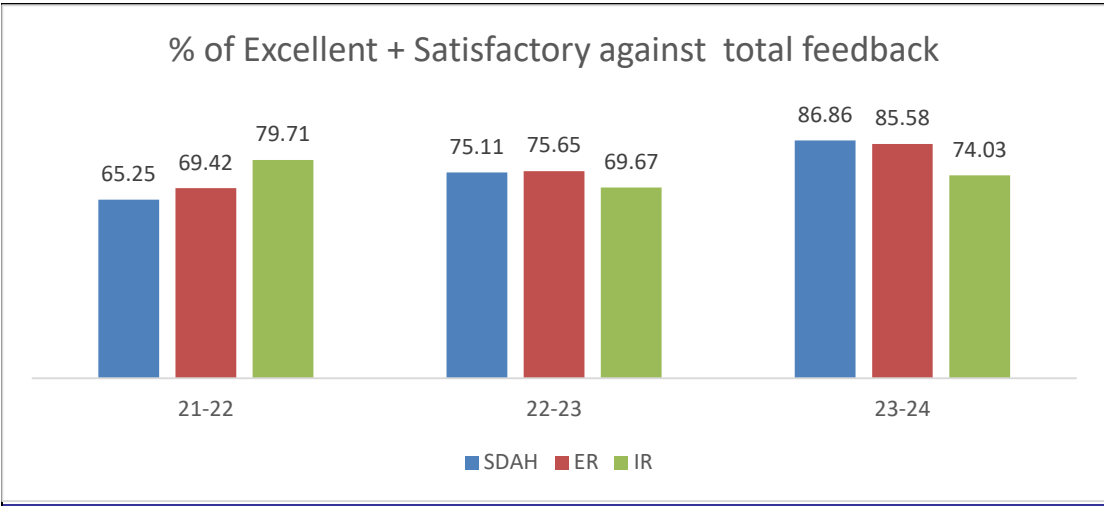
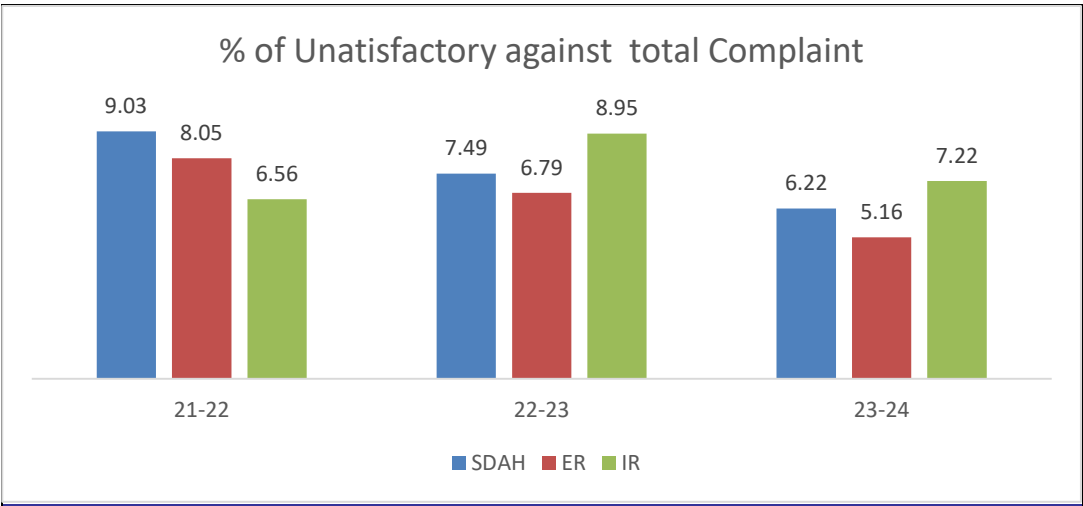
| YEAR    | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | TOTAL | AVG/ MONTH |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|------------|
| 2022-23 | 217 | 192 | 173 | 226 | 270 | 265 | 270 | 275 | 277 | 270 | 270 | 225 | 2930  | 244        |
| 2023-24 | 270 | 300 | 282 | 292 |     |     |     |     |     |     |     |     | 1144  | 286        |



### III. Performance of Railmadad Performance:







#### IV. Testing cum demonstration model for Electro Pneumatic Pressurized Flushing System at SDAH:

Pressurized Flushing System was introduced in Indian Railway Coaches laboratory since 2019. Later it was updated into Electro pneumatic pressurized flushing system. The total system has been controlled by an 5/2 Pneumatic valve(for PFS) and by solenoid valve & timer (for EPFS system) to ensure the proper and hassle free pressurized flushing and also a step towards modernization.

Initially maintenance of such pneumatic/electro pneumatic flush was very difficult to maintain due to insufficient knowledge of spare parts.

To eradicate this problem a test bench has been set up at NCC/SDAH Depot by Bio Toilet team. In this test bench panel, all parts of pneumatic and electric connections have been described in an easy way so that fault finding will be very easy.

It will help in providing knowledge to staffs and supervisor maintaining pressurized flushing system.



**TEST BENCH OF PRESSURISED FLUSHING SYSTEM(PFS & EPFS) AT NCC/SDAH**

V. **Twin pipe conversion in Wagon:**

As per Railway Board instruction, an ambitious project for gradually converted all Single pipe wagons into Twin pipe i.e. addition of Feed pipe & associated component.

During the month of Jul'23, total 45 nos. BCN variant/BOXN wagons & BLC Wagon have been retrofitted with twin pipe which will help in better control of train during freight movement. Cumulative 313 and cumulative of the previous year 2022-2023 is 945 nos.



VI. **Repair of C-Cat BOXN at NH Wagon Depot:**

Total 'C' category heavy repair carried out during the Month of Jul'23 is 11 Nos. wagons, Cumulative 260 wagons.

VII. **IOH out turn at Sealdah division:**

In the month of Jul'2023 total 69 Nos. coaches out-turn from SDAH and CP sick line at SDAH Division.

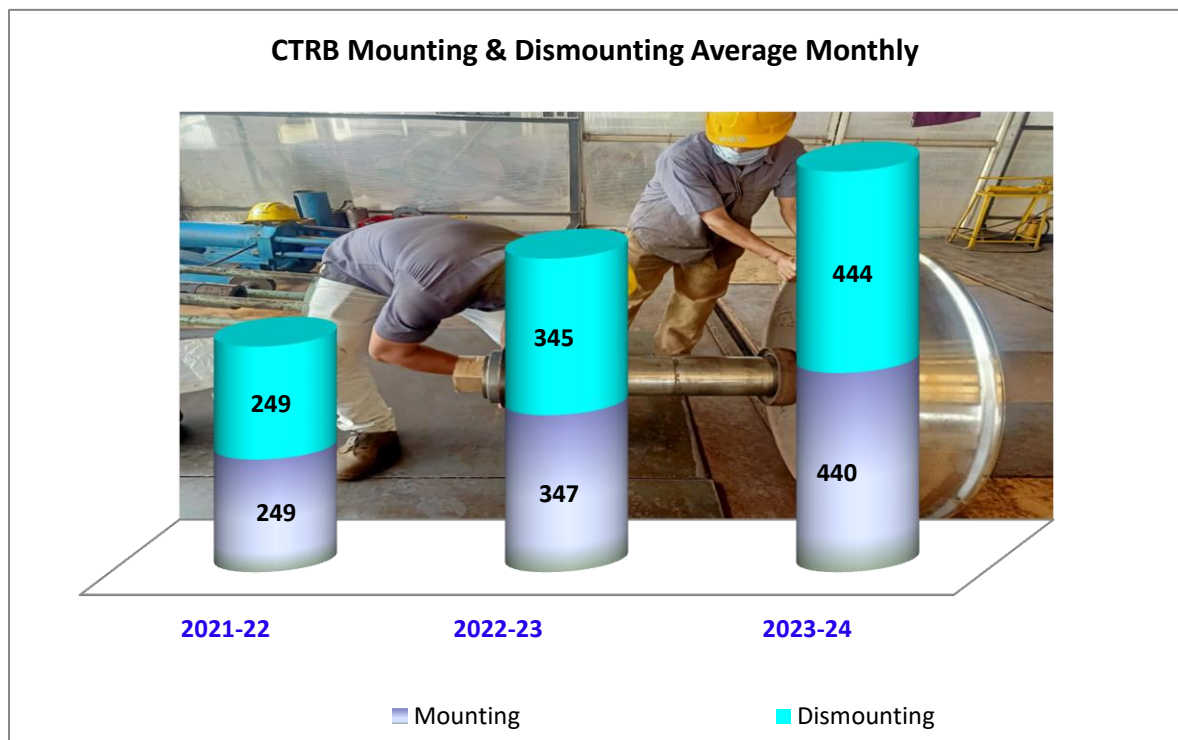
| Activities | Apr'23 | May'23 | Jun'23 | July'23 |
|------------|--------|--------|--------|---------|
| IOH done   | 62     | 83     | 69     | 69      |

## 6. CTRB Mounting & Dismounting Particulars:

| YEAR<br>(2021-22)  | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | TOTAL | AVG.<br>/MONTH |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|----------------|
| CTR<br>Mounting    | 277 | 193 | 200 | 215 | 237 | 299 | 253 | 251 | 239 | 230 | 301 | 295 | 2990  | 249            |
| CTR<br>Dismounting | 277 | 195 | 202 | 219 | 237 | 299 | 257 | 251 | 235 | 238 | 277 | 301 | 2988  | 249            |

| YEAR<br>(2022-23)  | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | TOTAL | AVG.<br>/MONTH |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|----------------|
| CTR<br>Mounting    | 334 | 307 | 323 | 452 | 328 | 331 | 285 | 349 | 343 | 357 | 387 | 370 | 4166  | 347            |
| CTR<br>Dismounting | 342 | 297 | 323 | 452 | 336 | 313 | 285 | 349 | 343 | 365 | 369 | 360 | 4134  | 345            |

| YEAR<br>(2023-24)  | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | JAN | FEB | MAR | TOTAL | AVG.<br>/MONTH |
|--------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|----------------|
| CTR<br>Mounting    | 590 | 442 | 376 | 350 |     |     |     |     |     |     |     |     | 1758  | 440            |
| CTR<br>Dismounting | 590 | 458 | 368 | 358 |     |     |     |     |     |     |     |     | 1774  | 444            |



## 7. Wheel Outturn at CNC/SWL

| YEAR    | APR | MAY  | JUN  | JUL  | AUG  | SEP  | OCT  | NOV  | DEC  | JAN  | FEB  | MAR | TOTAL | AVG. /MONTH |
|---------|-----|------|------|------|------|------|------|------|------|------|------|-----|-------|-------------|
| 2020-21 | 0   | 43   | 245  | 438  | 699  | 692  | 776  | 703  | 791  | 945  | 822  | 993 | 6325  | 527.1       |
| 2021-22 | 922 | 968  | 682  | 1110 | 972  | 1033 | 1039 | 1011 | 1003 | 1129 | 1061 | 958 | 11888 | 991         |
| 2022-23 | 946 | 826  | 705  | 955  | 1015 | 1031 | 1183 | 1148 | 1028 | 1099 | 1063 | 902 | 11901 | 992         |
| 2023-24 | 968 | 1266 | 1021 | 1110 |      |      |      |      |      |      |      |     | 4365  | 1091        |

