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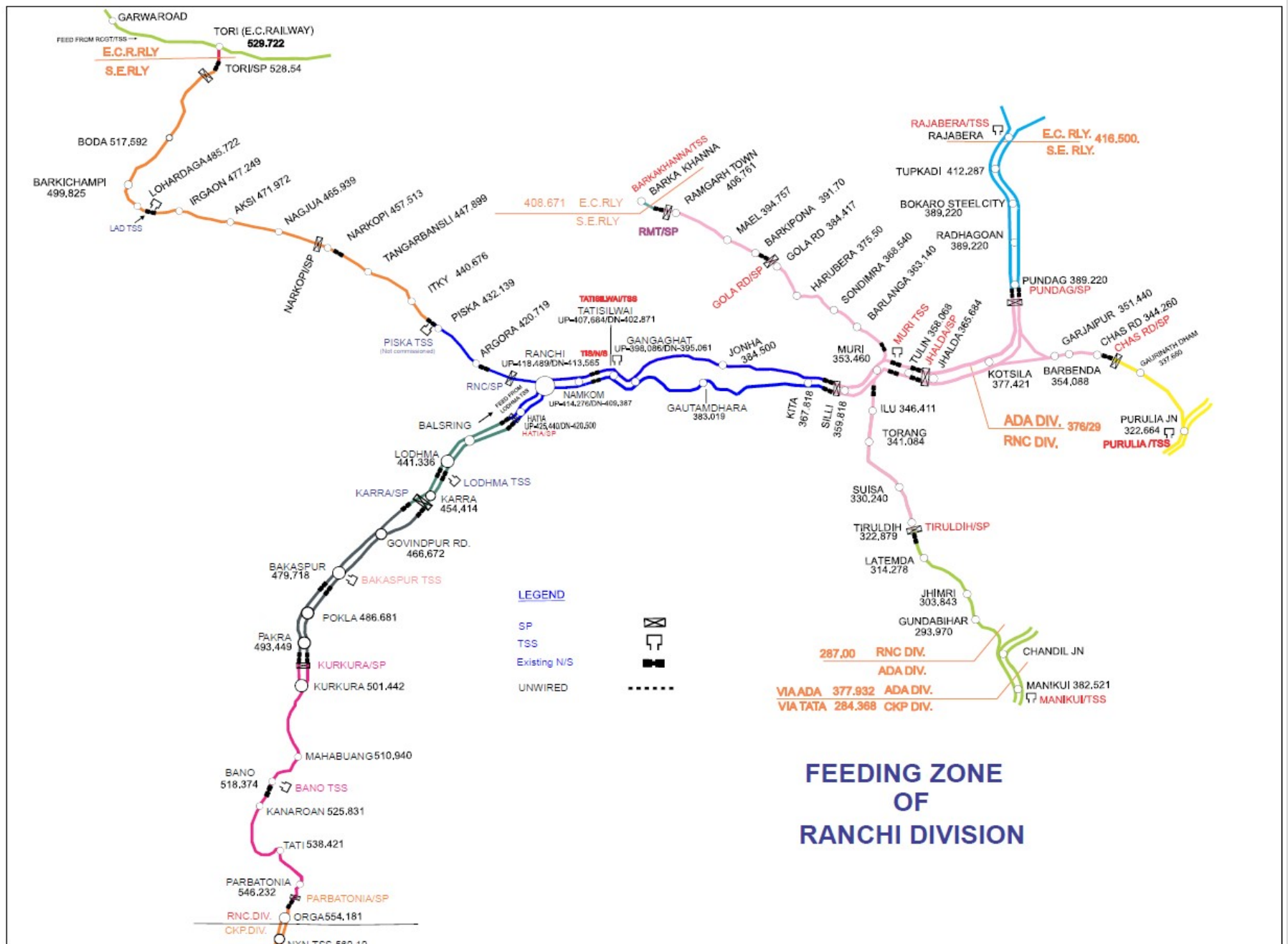
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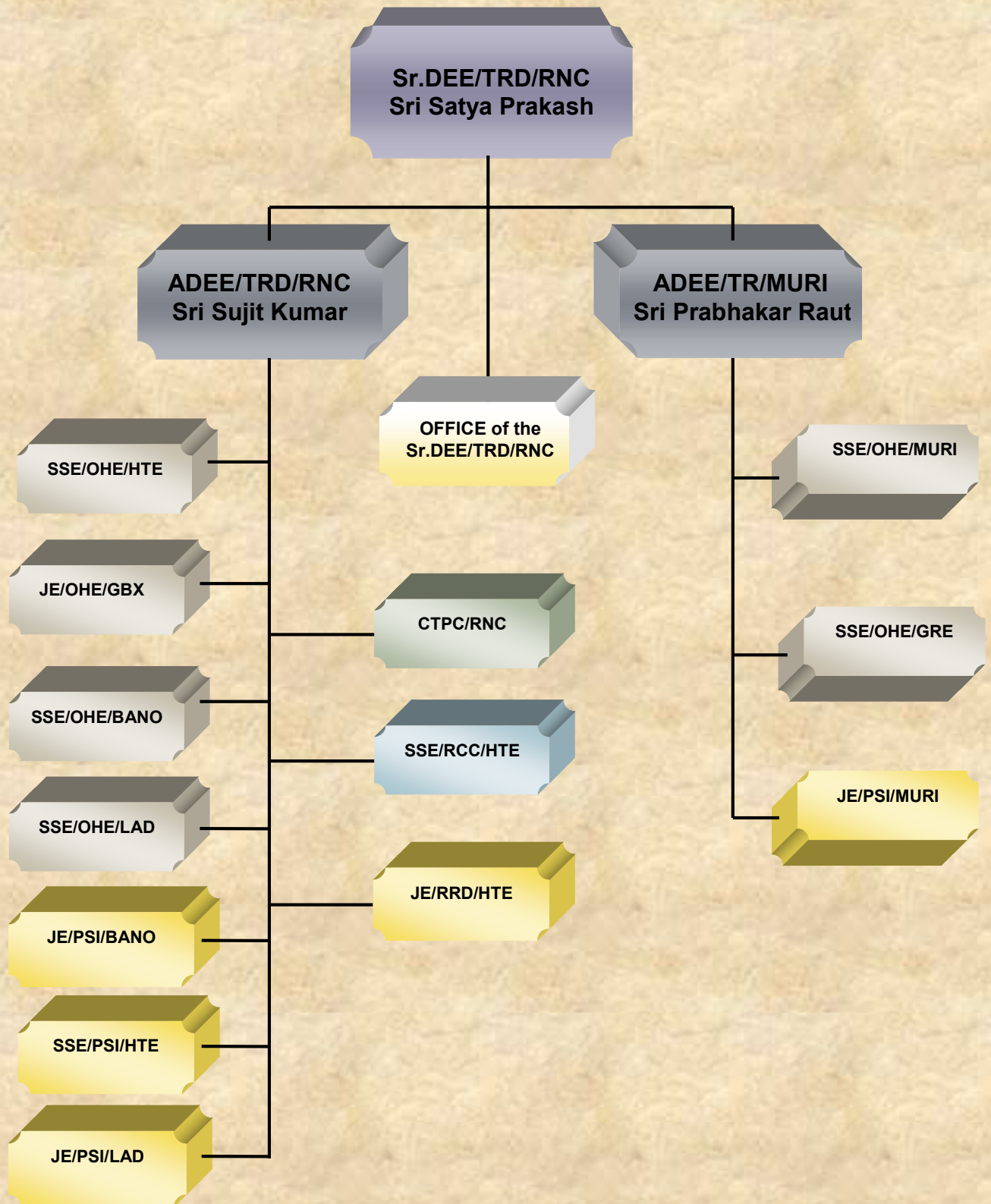
History

The TRD organization is an important wing of Electrical department. This organization was formed in the year 2001-02 in South Eastern Railway, Ranchi division. The Complete tracks of Ranchi division (Except Ranchi- Lorhardaga section) were electrified with 25 KV AC traction in the year 2001-02. Ranchi- Lohardaga-Tori section (120KM) has been electrified in the year 2018-19. The doubling project of Hatia- Orga section is going on in phase manner. At present, the electrified Route Kilometer and Track Kilometer of Ranchi division is 485.31 RKM and 804.75 TKM respectively.





ORGANISATION CHART



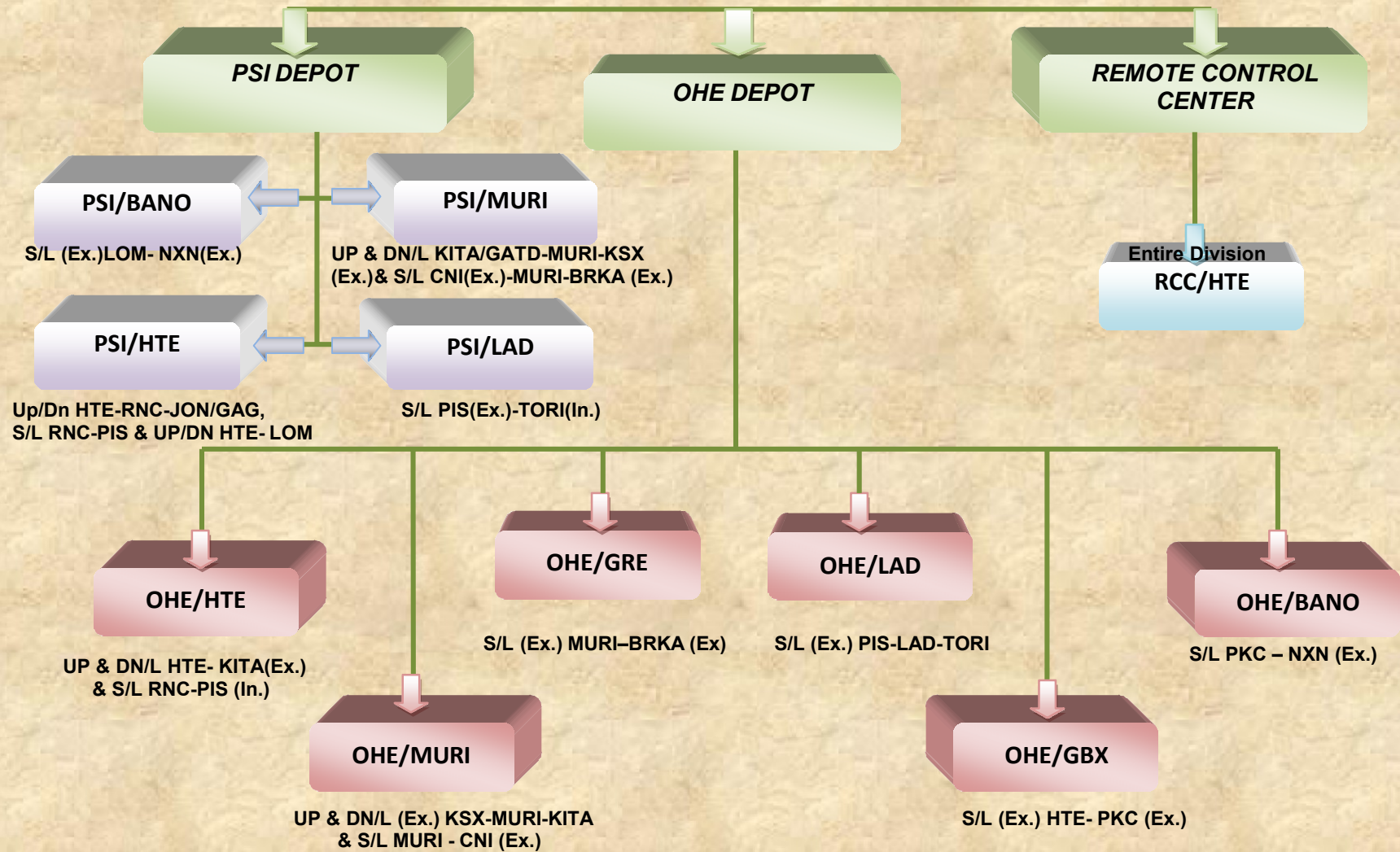


Electrical Traction Distribution (TRD) Department
South Eastern Railway, Ranchi Division

An Overview

BRIEF PARTICULARS OF RANCHI DIVISION (TRD)		
Sl. No.	Description	Total No.
1	Electrified Route km.	485.31 RKM
2	Electrified Track km. (Ex. Pvt. Siding)	804.75 TKM
3	No. of Electrified Private Sidings	03
4	Electrified Track km. of Pvt. Siding	16.58 TKM
5	No. of Supervisors	29
6	No. of Staffs On Roll	211
7	No. of OHE Depot	06
8	No. of PSI Depot	04
9	No. of RCC	01
10	No. of RRD	01
11	No. of Traction Sub-station	06
12	No. of Sectioning Post	12
13	No. of Sub-Sectioning Post	24
14	No. of 132/25 KV Power Transformer	14
15	No. of 8 Wheeler Tower Wagon	05
16	No. of 4 Wheeler Tower Wagon	04
17	No. of Neutral Sections	29
18	No. of Power line crossing	76
19	No. of Supply Authority / Grid Sub-Station	02 / 05
20	No. of 132 KV Railway owned Transmission line	06

MAINTENANCE ORGANISATION

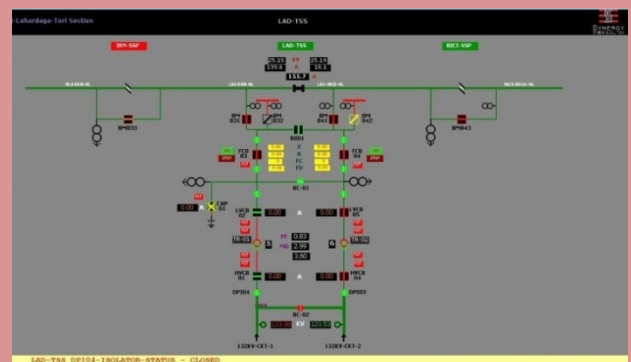
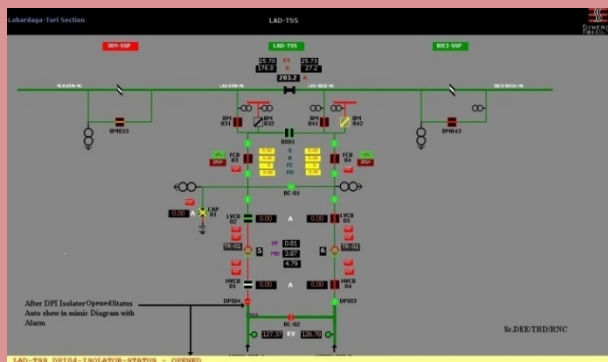
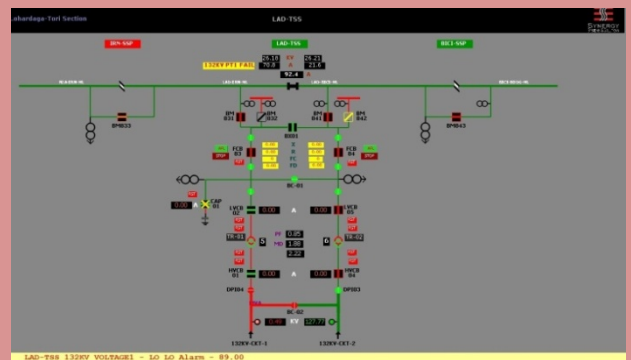
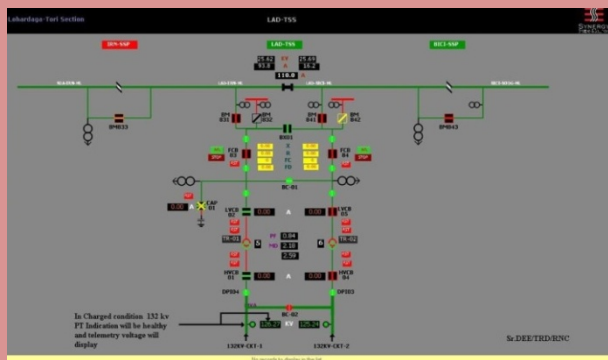


Achievements/ System Improvement 2023-24 (upto November 2023)

- Energisation of 7.284 TKM OHE done on newly constructed double line (Joint Line No.2) between Orga(Incl.) to Nuagaon(Excl.) including yard modification works of Orga yard in connection with doubling of Hatia-Orga section.
- New SP commissioned at Kurkura in Hatia-Orga section.



- Energisation of 1.290 TKM OHE done on newly constructed loop line (Line No.3) at Tangarbasali yard in Ranchi-Tori single line section.
- 01 no. 33 KV Overhead Power Line Crossing at Km.487/24-26 between Pokla-Pakra undergrounded during ongoing doubling works of Hatia-Orga section.
- Modification in existing SCADA system done for Lohardaga/TSS on trail basis.
 - (i) for telemetry voltage & indication of 132 KV supply failure with Alarm, 02 nos. 132KV/100V PT provided in incoming side connected with RTU by using spare channel and
 - (ii) for status of OPEN/CLOSE indication of 132 KV Double Pole Isolator in mimic diagram with Alarm, DPI connected through NO/NC Auxiliary switch connected from field to RTU.



- Improvement of 06 nos. Critical implantation mast (less than 2.36 mtrs.) done in and 13 nos. (2.36><2.50mtrs) done in Hatia-Orga, Muri-Chandil & Muri-Kotshila section to avoid OHE mast hitting by open door wagons.
- Rectification of 05 nos. leaning mast (<300mm) done in Hatia-Orga and Chandil-Muri-Kotshila section.
- 455 nos. cantilever assembly replacement done in connection with OHE profiling work.
- A new OHE depot has been commissioned at Govindpur Road.



- 281 nos. new type of Structure bond i.e. Earth rail clamps have been provided on trail basis in section Lodhma-Balsaring.



- A new ICF make 8-Wheeler Diesel Electric Tower Car (SER-230069) commissioned on 24.11.2023 for Govindpur Road depot.



- Megaphone provided for each OHE depot to communicate during Tower wagon working in maintenance and breakdown.