



SEC Railway, Engineering Department

Highlights during the Period from Apr'24 to Mar'25

The following works pertaining to Engineering have been done:

1.0 Track Renewal Works [CTR (P+S)]:

In the financial year 2024-25, **282 CTR units** of Track Renewal works consisting of Through Rail & Sleeper Renewal (Primary and Secondary) have been done against annual target of 413.50 CTR units.

2.0 Deep Screening Works:

In the financial year 2024-25, **436.8 Km** of Deep Screening of track, consisting of deep screening of Plain Track (263.62 Km) & Turnouts (231 nos.) have been done against annual target of 800 Km (Plain Track-500 Km & Turnout-400 nos.).

3.0 Through Turnout Renewal (TTR) Works:

In the financial year 2024-25, **343 Weighted Nos.** of TTR works have been done against annual target of 420 Weighted Nos.

4.0 Thick Web Switch (TWS):

In the financial year 2024-25, **460 nos.** of Thick Web Switches have been laid against annual target of 550 nos.

5.0 Insertion of Thick Web SEJ:

Thick Web SEJs are being laid on trial basis. So far, **45 nos.** of Thick Web SEJs have been laid out of 50 nos. supplied so far.

6.0 Raising of Sectional Speed to 110 Kmph:

Sectional speed has been raised in a total length of **328 Route km** during the year 2024-25 against annual target of 282 Route Km.

7.0 Insertion of H-Beam Sleepers on Steel Girder bridges:

In the financial year 2024-25, **11446 nos.** of H-Beam Sleepers have been inserted in the steel girder bridges against annual target of 10934 nos. have been inserted.



8.0 Scrap offered to Store:

Scrap offered to store to the tune of **32753 MT.** has been done during the year 2024-25 against annual target of 24038 MT.

9.0 Ballast Supply:

Highest in last 10 years Ballast Supply to the tune of **587 Thousand CuM.** has been done during the year 2024-25 against annual target of 500 Thousand CuM.

10.0 Through Fitting Renewal:

Through fitting renewal to the tune of **332 Tkm.** has been done during the year 2024-25 against annual target of 478 Tkm.

11.0 Elimination of Manned Level Crossing Gates:

28 nos. of manned level crossing gates have been eliminated during the year **2024-25** against annual target of **90 nos.**

12.0 Elimination of Manned Level Crossing Gates:

Highest ever expenditure CAPEX in PH-30 is **530.38 Crs.** during the year 2024-25.

13.0 Construction of ROB/RUB:

- Highest ever construction of ROB **14 nos.** have been done during the year 2024-25.
- Highest ever construction of RUB **60 nos.** have been done during the year 2024-25.

14.0 Rehabilitation of Bridges:

Overall Rehabilitation works of **170 nos.** Bridges has been completed during this year.

12 New minor bridges constructed in place of old bridges.

02 Major bridges (Br.No.94 & 53DN) constructed in place of old bridges.

*(i) Old bearings are replaced with **new bearings** on important bridge no. 46 on Hasdeo river.*

*(ii) Old bearings are replaced with **new bearings** on important **bridge no. 404** on Narmada river.*

15.0 Providing Side Pathways for safety of Railway staff & Pedestrians:

Side Pathways has been provided on **62 Major Bridges** in this year.

16.0 Rehabilitation of ORN-2 rated bridges:

Rehabilitation of 1 No. ORN-2 rated bridge has been completed during the year so far.

17.0 Rehabilitation of ORN- 3 rated bridges:

Rehabilitation of 13 Nos. ORN-3 rated Bridges has been completed during the year so far.

18.0 Jacketing for strengthening of substructure of Bridges:

Jacketing of **02 Bridges** has been completed during the year so far.

19.0 Metalizing of Steel Bridges to protect the Bridges from corrosion:

The work has been completed at **34 Major Bridges** during the year so far.

20.0 Instrumentation:

Structural Health Monitoring of 8 major bridges having completed in this year

21.0 Station Development:

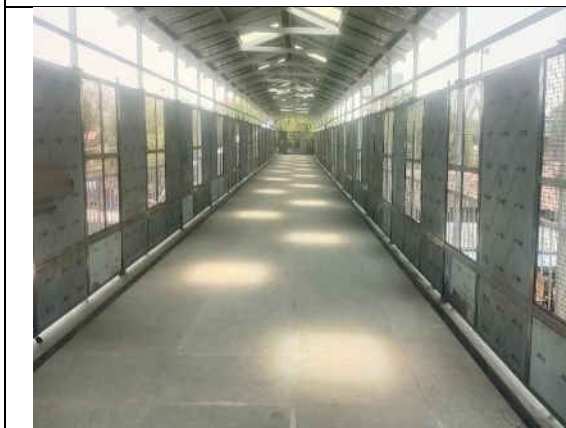
- FOBs (Span Less than 12 m): **12 Nos.** have been completed.
- FOBs (Span 12m): **2 Nos.** have been completed (Nainpur & Mandla Fort).
- **Soft Development of Amrit Stations:** Works completed in **9 Stations** (Ambikapur, Urkura, Bhanupratappur, Bhilai, Dongargarh, Amgaon, Chandafort, NSB Itwari & Seoni)

22.0 Foot Over Bridges:

Extension & Provision of Foot Over Bridge (FOB): Foot Over Bridges have been completed & commissioned at **14 Nos. of stations.**



Jhilimili



Rajnandgaon







Rajoli

	
<p>Lodhikheda</p>	<p>Ramakona</p>
	
<p>Birsinghpur</p>	<p>Birsinghpur</p>
	
<p>Murhipar (Ext. PF2/3 to 4)</p>	<p>Charegaon</p>

23.0 Raising of Platforms:

Raising of Platforms: **04 Nos platforms at 04 Stations** have been done during the year 2024-25.

	
Wadsa	Jhalwara
	
Kapan	Vilayatkalan Road

24.0 Platform shelter:

PF Shelters (size 32m X 10m each) on PF No.1 & 2/3 at Kharsia station complete during this month.



25.0 Water conservation:

Rain Water Harvesting (RWH): A Cumulative of **54 Nos.** Roof top Rain Water Harvesting systems provided during the year 2024-25.




Nainpur



Motibagh



Ladies RPF Barrack/Bilaspur

	
Qtr No.314/1-2 & 315/1-2/Dongargarh	

26.0 Creation / Renovation of Water Bodies:

10 Nos. of Water Bodies Created/Renovated during the year 2024-25.

	
Rajoli	Sindewahi
	
At Km 759/26-28 bet SLKR-BIG	



Gangajhari



Ambikapur (DN line side KLPG end)



At Km 575/36 near Kotarlia station



At Km 991/1030-991/1032 / Sheoprasad Nagar

27.0 Staff Amenities

Quarters:- A cumulative 97 Nos. (Type III-24 & Type II -73 nos.) of staff Quarters completed during the year 2024-25.



28.0 Production of Wider Base PSC Sleeper (T-8746):

Achieved: **4,93,283 nos.** against annual target of **5,51,750 Nos (89.40% achievement)** apart from adequate production of special sleepers e.g Turnout Sleepers, Crossing sleepers, Bridge Straight, Bridge Approach, LC & SEJ Sleepers etc to meet the requirement of all the three divisions successfully.

29.0 Ensured adequate supply of P. Way materials to the Divisions:

Adequate supply of essential P. Way materials have been ensured in coordination with Store Department to meet the requirement of all the 03 divisions:

- **ERC-V(T-5919):** 20,43,907 Nos
- **Metal Liner (T-8748):** 7,67,464 Nos
- **CGRSP (T-8747):** 9,37,702 Nos
- **HVN Liner (T-8751):** 1,90,923 Nos
- **Thick Web Switch 1 in 12 (T-6155):** 366 Sets
- **CMS Crossing 1 in 12 (T-4220):** 497 Sets
- Other track fittings supplied as per requirements of divisions.

30.0 Arbitration/Legal Cases Finalized:

- **Arbitration Cases:** 13 cases have been finalized.
- **Court Cases:** 07 cases have been finalized.

31.0 Track Machine Achievement:

- 1) Inspection and commissioning of Eight (8) new track machines has been done during 2024-25 in SECR.

- 2) Machine availability during the year is 94% which is among the highest in IR.
- 3) Progress of TSR (75 km) achieved by TRT-159 which is among the highest in IR.
- 4) POH & IOH of 15 machines has been done.
- 5) Breakdown of machines reduced by 36% compared to last FY.
- 6) More than 55 crore expenditure by TMO/SECR in 2024-25 whereas it was 24 crore during 2023-24.
- 7) Many things done for the **first time in TMO/SECR:**
 - i. E Magazine “**Saksham Track Machine**” has been published in SECR to preserve and spread knowledge.
 - ii. Track machine Rest houses in KGS station of BSP Division, ZMD/Nagpur and Satellite Depot, Raipur have been made functional.
 - iii. Booklet for Critical spares to be kept in machine has been published for SECR.
 - iv. **Improvement in Safety:** Stopped running overdue camping coaches. Now camping coaches run with valid BPC only.
 - v. First POH of camping coach at MIB Workshop.
 - vi. Contract has been finalised for O&M outsourcing of 29 track machines for 2 years.
 - vii. Conducted Seminar with engine OEMs M/s Cummins and M/s Caterpillar to have understanding of ECM based Engines.
 - viii. Full focus on strengthening the system of Alert advises to ensure safety during machine movement and working. Total 9 alert advices have been issued during 2024-25.
 - ix. Fitment of speedometer with Recorder in 50 track machines is in progress. LOA issued on 15.01.2025.

32.0 Empanelment of consultants:

Empanelment/Registration of consultants for survey and construction of private siding work on SECR finalised in 2024-25.