

General information – Power Maintenance

Statistical Data over Nanded Division

❖ Total Number of Stations	-	105 Nos
❖ Total Number of Stations Electrified	-	90 Nos
❖ Total Number of Stations Non-Electrified	-	15 Nos
❖ Total No. of HT & LT Services	-	245 Nos (HT-13 & LT-233)
❖ 11KV/440 V Sub-stations	-	13 Nos
❖ Total connected load	-	10360 KW (Up to July -25)
❖ Total consumption	-	8.67 MU (FY 2024-25)
❖ Total Solar Capacity	-	882 kWp (PPP-460 kWp & Dept.-422 kWp)
❖ Solar Generated Units	-	0.93 MU (FY 2024-25)
❖ Staff Quarters	-	2222 Nos
❖ Passenger Escalators	-	09 Nos (NED-03 & PBN-01 & AWB-03 & AK-02)
❖ Passenger Lifts	-	10 Nos (NED & AWB-03 & NSL -2 , PBN-1, DRM off.-1)
❖ Pumps.	-	174 Nos
❖ High masts	-	93 Nos
❖ UPS at PRS/UTS	-	86 Nos
❖ Air-Conditioners	-	371 Nos
❖ Water coolers	-	66 Nos

Achievements of FY-2024-25

Power Maintenance

1. Fire Alarm and suppression system installed at DRM complex and Railway Hospital.
2. BEE/ Shunya certification received for NED & RGO stations and BEE/Shunya Plus certification received for BDU & NSL stations.
3. 2 nos of escalators have been commissioned at AK station in Sept, 2024.
4. 16 nos of Highmasts have been commissioned in various goods shed (MTDI, J, ADB, NSL, PBN) across the division for better illumination during goods loading/ unloading.
5. Upgradation of ADB substation from 250 KVA to 500 KVA in view of new pitline load enhancement.
6. Dedicated power supplies have been extended to RGO, SELU & PTU stations in view of ABSS station load enhancement.
7. A total of 60 KwP (40 KwP- Jalna and 20 KwP- DOC) solar plant installed.
8. NED Quick Watering system for fast watering of trains has been completed.
9. 500 LPD solar water heater installed at AWB RPF barrack.
10. 10 Nos of solar street lights have been installed at various LC gates.
11. Glowing signage name board installed at NED station pf no- 01 side entrance and exit gates.
12. A total of 5 nos of 30 KVA DG set (1 each at MVO,GNH,HEM,LSR & HNL) and 1 nos of 160 KVA DG commissioned at ADB station.
13. Approximately 4000 Litres of fuel is saved on monthly basis due to 750v substation for 2&3 pit lines in NED station.
14. A total of 625 smart meters has been installed at staff residence buildings.
15. Electrical arrangements (power supply and lighting) work completed at AWB new pit line.

General information – TL & AC

Summary of details of coaching depots over NED division

Description	TL & AC Depots		
Primary maintenance depots	Nanded	Purna	Jalna
No.of Primary Maintenance trains	16 (22 rakes)	2 (8 rakes)	03 (2 rake)
No.of Secondary Maintenance trains	1	0	0
No.of Pass-through trains	120	82	120
No.of SG Coaches	149 (AC-30 & TL-119)	120 (AC-10 & TL-109)	34 (AC-08 & TL-26)
No.of EOG Coaches	262 (AC-113 & TL-149)	-	28 (AC-11 & TL-17)
No.of saloons	1	-	-
No.of power cars	17	-	1
No.of pantry cars	EOG-09, SG-1	SG-1	EOG-1, SG-2
In charge of depot:	RAJEEV KUMAR SSE/TL-AC/NED	KASHIF KHAN, SSE/E/M/PAU	RAJU I JE/TLAC/J
No of supervisors	06	01	01
App Tr. JEs	01(TRS)	00	00

Summary of primary maintenance trains

Sl. No	Train Type	Total Division		Maintenance Schedule			
				Daily		Weekly	
		Trains	Rakes	Trains	Rakes	Trains	Rakes
1	SG type	07	16	06	15	01	01
2	LHB type	13	14	03	08	10	06
3	Vande Bharat	1	2	1	2	-	-
Total		21	32	10	25	11	07

Details of primary maintenance trains (LHB type) at Nanded depot

S. No	Train No	Train Name	From-To	No of Rakes	Maintenance	HOG/EOG
1.	12715/16	Sachkhand Exp.	NED-ASR	4	Primary Daily	HOG
2.	12751/52	Humsafar Exp.	NED-JAT	1	Weekly	HOG
3.	22709/10	NED-AADR Exp.	NED-AADR	1	Weekly	HOG
4.	07015/16	NED-TPTY Exp.	NED-TPTY		Weekly Special train	HOG
5.	22723/24	Ganganagar Exp.	NED-SGNR	1	Weekly	DSL loco link
6.	12753/54	Sampark Kranti Exp.	NED-NZM	1	Weekly	HOG
7.	07189/90	NED-DMM Exp.	NED-DMM		Weekly Special train	HOG
8.	17614/13	PNVL Express	NED-PNVL	2	Weekly	HOG
9.	17630/29	Pune Exp.	NED-Pune	2	Weekly	HOG
10.	12767/68	SRC Express	NED-SRC	1	Weekly	HOG
11.	17620/19	Renugunta Exp	NED-AWB-RU			HOG
Total				13		

Details of primary maintenance trains (VB) at Charlapalli depot

Train No	Train Name	From-To	No of Rakes	Maintenance	HOG/EOG
20705/06	NED-CSMT Vande Bharat	NED-CSMT-SUR-CSMT-NED	02	Weekly at CHZ	-

Details of primary maintenance trains (LHB type) at Jalna depot

S. No	Train No	Train Name	From-To	No of Rakes	Maintenance	HOG/EOG
1.	17610/09	PAU-PBNE exp	PAU-PBNE	01	Weekly	HOG
2.	07610/09	PAU-TPTY exp	PAU-TPTY		Weekly	HOG

Details of primary maintenance trains (SG ICF type) at Nanded depot

S. No	Train No	Train Name	From-To	No of Rakes	Maintenance	Remarks
1.	17688/87	Marathwada	DAB-MMR-DAB/NED-CSTM-NED	3	Daily	-
2.	17618/17	Tapovan Express				
3.	17611/12	Rajya rani Exp	NED-CSMT-NED	2	Daily	-
4.	17664/43	NED-RC Exp	NED-RC-NED	2	Daily	-
Total				07		

Details of primary maintenance trains (SG ICF type) at Purna depot

S. No	Train No	Train Name	From-To	No of Rakes	Maintenance	Remarks
1.	17648/47	PAU-HYB Express	PAU-HYB-BJP-HYB-PAU	4	Daily	-
2.	07599/98	Passenger	PAU-PRLI-ADB-AK-PRLI-PAU	4	Daily	-
Total				08		

Details of primary maintenance trains (SG ICF type) at Jalna depot

S. No	Train No	Train Name	From-To	No of Rakes	Maintenance	Remarks
1	07651/52	J-CPR Exp.	J-CPR-J	1	Weekly	-
Total				01		

Innovations & Initiatives:

Innovative work done for Testing LHB Coaches:

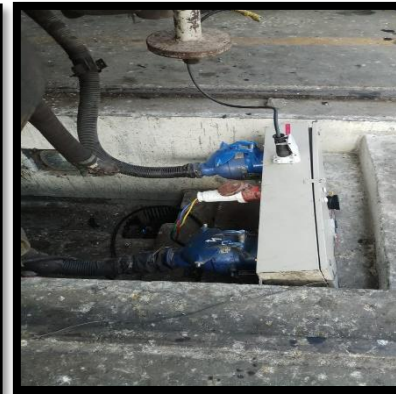
Portable 750v test kit: 750V testing kit is developed in house and is used for testing the LHB coach (both AC & non-AC) with power supply at IOH shed.

Advantages:

1. Individual LHB coaches can be tested at IOH shed without power car/750V power supply arrangements.
2. Coach need not be put in the pitline for testing, so shunting time is saved.
3. Kit can be shifted for testing of LHB coach at stable line for emergency testing wherever 415V power supply is available.



Development of HOG testing kit: HOG testing kit is developed departmentally at NED TLAC depot to check and ensure proper working of HOG system in power car/ LSLRD. It has two modes-power car & coach mode. In power car mode, the working of HOG contactors & UIC coupler can be ensured. In coach mode, the working of LHB AC coach can be ensured by availability of 415V AC supply.



Achievements of FY-2024-25

TL & AC

1. Provision of individual MPCB for water pumps and shifting of its controller toonboard in set of panels for LHB Non-AC/EOG coaches: total 09 coaches completed remaining 04 to be done.
2. 04nos. Defective 2.5KW EBCR and 01nos. defective 6.5KW RBCR were attended by replacing wiring, 20amps & 25amps 04nos fuse base, setting disturbed, GDU Card and DC capacitor bank.
3. Total 51 sets of battery sets were replaced departmentally in codal life completed coaches (SG & LHB type coaches and power cars)
4. Total 125 coaches were provided with 16Amps D-curve type MCB in place of existing c-type MCB as per the railway board guidelines to avoid the unwanted tripping during neutral sections of OHE.
5. The controlling of luggage compartment light was available in SBC in power car electrical cabin only. There was no controlling to guard for these lights. While sometime guard may need to operate them in absence of power car crew. So, one additional controlling was given to guard cabin.
6. In previous ICF Built Non-Ac Coaches built in the Year 2018, Mobile charging overload & earth leakage protection CB i.e., RCCB (Residual Current Circuit Breaker) was placed in under frame high voltage panel.
7. when overload or earth leakage occurs RCCB gets tripped resulting in cutting supply to all mobile chargers. Mobile chargers work only after resetting the above said RCCB.
8. Cause of concern: In LHB coaches, AMIT & SSK make RMPUs outgoing cables from roof electrical junction box are coming out from bottom side of the box and running on the floor of unit lead to cables lies in water in case water accumulation due to condensation or rainy in the unit.
9. Total Rail Madad Complaints have reduced to 3527 in (FY 2024-25) from 4091 in (FY 2023-24).