

ELECTRICAL (TRD) DEPARTMENT JAIPUR DIVISION

<<<>>>

Introduction

Electrical TRD unit play a vital role in the Railway transport system. At Divisional level Sr. Divisional Electrical Engineer/TRD, is the overall in-charge of TRD unit. All activities pertaining to Traction Distribution in the division is coordinated by Sr. Divisional Electrical Engineer/TRD, who is assisted by DEE/AEE & SSE/JE's. TRD unit is responsible for operation and maintenance of OHE/PSI assets & co-ordination with executive agencies CORE, RITES, DFCCIL & IRCON.

Electrification at a Glance

FY	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	Grand Total
RKM	6.6	72.26	0	214.93	0	342.37	123.87	173.83	87.584	181.8	1021.454
TKM	14.5	184.5	0	282.79	0	653.33	251.22	213.73	100.768	213.68	1705.048

SN	SECTION	STATUS of Electrification
1	RE-JP-MD	Electric traction has been introduced.
2	RE-RGS-FL	
3	SWM-JP-RGS	
4	RGS-SIKR-CUR & SIKR-LHU	
5	DO-GGC	New BG line track work under progress, Electrification work yet to start

Details of TRD Assets over Jaipur division-

DEE/ADEE	OHE/PSI Depot	T/W shed & siding	TSS	SP	SSP	Depot Jurisdiction RKM
ADEE Office Rewari	Rewari	Rewari	Kathuwas	1. Rewari 2. Karnawas	1. Rewari 2. Bawal 3. Ajerka 4. Pali	73.00 RKM RE (Incl)-KNAR (Excl) RE (Incl-KTWS (Incl)
	Alwar	Alwar	1. Khairthal 2. Rajgarh	Alwar	1. Harsali 2. Khairthal 3. Padisal 4. Mahwa 5. Malakhera	78.00 RKM KNAR(Incl)-RHG (Incl)
	Bandikui	Bandikui	Khan Bhankri	Bandikui	1. Baswa 2. Kolwagram 3. Dausa 4. Banskho	70.00 RKM RHG (Excl)-BSKO (Incl)
	Narnaul	Narnaul	-	Amarapur Jorasi	1. Mirzapur 2. Dabla	57.00 RKM KTWS (Excl)-JILO (Incl)
	Neem Ka Thana	-	Maonda	Kanwat	1. Neem Ka Thana	38.00 JILO (Excl)-KAWT (Incl)
DEE Office Jaipur	Jaipur	Jaipur	Jaipur	Bassi	1. Khatipura 2. Gandhinagar 3. Bindayka 4. Sanganer 5. Bais Godam	82.00 RKM BSKO (Excl)- SHNX (Incl) SNGN (Incl)-DKBJ (Incl)
	Isarda	Isarda	-	Chauth ka Barwara	1. Devpura 2. Isarda 3. Siras	49.00 RKM SWM (Excl)-SRAS (Incl)

	Chaksu	Chaksu*	Bansthali Niwai	Sheodaspura	1. Chanani 2. Chaksu	69.00 RKM SRAS (Excl)-SNGN (Excl)
	Chomu	Chomu*	-	Chomu	1. Nindar Benad 2. Govindgarh	59.00 RKM DKBJ 9Excl)-RGS (Excl)
	Lalsot*	Lasot*	Lalsot	1. Dausa* 2. Udai Kalan*	1. Nangal Pyariwas* 2. Salempur-Arniya* 3. Piplai* 4. Khuntla*	95.00 DO (Excl.)- GGC (excl.)
ADEE office Phulera	Phulera	Phulera	Phulera	1. Bobas 2. Renwal	1. Hirnoda 2. Dantra 3. Bheslana 4. Khandel	82.00 RKM SHNX (Excl)-DTRA (Incl) FL (Incl)-RNW (Incl)
	Kishangarh	Kishangarh	Kishangarh	1. Sakhun 2. Madar	1. Gehlota 2. Gegal Akhiri	55.77 RKM DTRA (Excl)-MD (Excl)
	Sri Madhopur	Sri Madhopur	Ringas	-	1. Kachera 2. Kishan Manpura 3. Pachar Malikpur	56.00 RKM KAWT (Excl)-RNW (Excl)
	Sikar	Sikar	Rasidpur Khori	1. Palsana 2. Sikar	1. Goriyan 2. JerthiDadhia 3. Nawalgarh	94.00 RKM RGS (Excl.)- NWH (Incl.) SIKR (Incl.)- RDK (Incl.)
	Jhunjhunu	Jhunjhunu*	Narikhetri	1. Luharu 2. Dundlod Mukandgarh	1. Nua 2. Jhunjhunu 3. Chirawa 4. Surajgarh	92.00 RKM NWH (Excl.)- LHU (Excl.)
	Fatehpur Shekhawati	Fatehpur Shekhawati	Kayamsar*	1. Lachhmang arh 2. Churu	1. Fatehpur Shekhawati 2. Rmgarh Shekhawati	72.00 RKM RDK (Excl.)-CUR (Excl.)
Total	16	15	14	22	50	

(*Under construction/ commissioning pending)

Summary of TRD Assets over Jaipur Division

Status	DEE/AEE office	Depot	TW Shed	TSSs	SP	SSP
Commissioned	3	15	10	11	20	46
Work Under progress	0	0	4	02	0	0
Work yet to be started	0	1	1	01	02	04
Total	3	16	15	14	22	50

TRD Assets to be commissioned

Dausa-Gangapur city Section:- (95 RKM/111.5 TKM) Executive Agency –IRCON

OHE/PSI Depot	T/W shed & siding	TSS	SP	SSP	PDC
1. Lalsot	1. Lalsot	Lalsot	1. Dausa 2. Udai Kalan	1. Nangal Pyariwas 2. Salempur-Arniya 3. Piplai 4. Khuntla	FY 2025-26

(* Under construction/ commissioning pending)

Highlights of Electrical (TRD) Jaipur division

Electrification over Jaipur division started in 2014-15 and is almost completed except DO-GGC section. Total **1021.454 RKM/ 1705.048 TKM** out of 1116.38 RKM/1804.60 TKM has been electrified up to October 2023

- Jaipur Division has 689.454 RKM conventional OHE and 332 RKM High Rise OHE.
- 106 pairs of coaching trains are on Electric traction out of 171 pairs (i.e. 61.99 % of JP Div.)
- **AWR-RE – First electrified section over NWR.** Electrification completed in March 2016. *First Electric train over NWR* introduced for goods in **April 2016**.
- **RE-RGS-FL-MD - First electric traction** introduced for goods trains on 25.05.2020 & for passenger trains (*DEE-All Jansatabdi Exp*) on 27.07.2020 **First time on High Rise OHE section over NWR.**
- **AWR-JP-FL – First electric traction** introduced for goods train on 29.11.2020 & for passenger trains (*PRYJ-JP Express*) on 14.12.2020 (**also first passenger train on electric traction from JP station**)
- **SWM-SAS-JP – First electric traction** introduced for goods trains on 29-05-21 & 05.08.21.
- **JP-SWM – First passenger train (PUNE-JP SF SPL, 02939)** on electric traction introduced on 16-08-2021.
- **JP-RGS – First electric traction** introduced for goods trains on 15-10-21 and for Passenger service in December 2022.
- **RGS-SIKR-LHU – First passenger train (Hisar - Duronto Exp. 02239)** on electric traction introduced on 31-10-2022.
- **SIKR-CUR - Introduction of freight service** started on 16.06.2023 and passenger service (**Kota -Hisar Exp.**) on 01.08.2023 on electric traction.

Best ever performance:-

a. **OVER IR:-**

- **First High Rise section over IR where electric traction was introduced for M/Exp trains-** First Passenger train DEE-All Jansatabdi Exp. (Train no. 02065/02066) has been taken on Electric traction in RE-RGS-FL-MD section of Jaipur division since 27.07.2020. It is the first High Rise OHE (7.57 meter contact wire Height) section of Indian Railway, where electric traction has been introduced for Passenger/M/Exp trains.

b. **Over NWR:-**

- **First Electrified section over NWR:-** Rewari- Alwar section is the first electrified section over NWR. CRS/WC inspected this section on 25/26.03.2016 and authorized it for introduction of 25 KV electric traction on 30.03.2016. Further Electric traction was introduced on 01.04.2016 for Goods train.
- **First Electric Goods train in High Rise OHE section over NWR:-** Electric traction has been introduced in RE-RGS-FL section of Jaipur division by hauling first Goods train with electric traction on dated 25.05.2020. It is the first High Rise OHE section (contact wire height of 7.57 Mtr) of NWR where electric traction has been introduced for operation of Freight service. Further it has been extended up to Madar station of JP division since 24.06.2020.

c. **Over JP division:-**

- **First passenger train with electric traction in JP division:-** First Passenger train DEE-All Jansatabdi Exp. (Train no. 02065/02066) has been taken on Electric traction in RE-RGS-FL-MD section of Jaipur division since 27.07.2020. It is the first passenger train of Jaipur division which has run with electric traction.
