

INTRODUCTION

Electrical Department of this Railway is primarily responsible for operation and maintenance of electrical assets pertaining to power supply & Diesel maintenance is also included as per Railway Board's letter no. 2016/08M/8/1 dated 03.08.2016. Apart from power supply arrangements at stations and their circulating areas & yards, staff colonies, office buildings, maintenance depots, workshops, training institutions and other service buildings, etc. through 299 nos. distribution transformers, the department is also responsible for operation & maintenance of water supply pumps (1072 nos.), diesel generating sets (151 nos.) for emergency power supply, air conditioning/cooling systems, ensuring maintenance of electrical power line crossings with track by crossing owners etc. The department maintains close liaison with various electrical power supply authorities (DISCOMs) and Rajasthan Electricity Regulatory Commission regarding reliability of supply, payment of energy bills, fixation of tariff etc.

With the inclusion of Diesel Traction under PCEE, Electrical Deptt now also covers 01 Diesel Sheds (Abu road & 01 electric shed Bhagat ki kothi), 01 Loco Workshop Ajmer, 23 Running Rooms & 23 Crew Lobbies. There are 32 Passengers Lifts at major Stations & 43 nos. of Escalators at major Stations have been installed for better passenger convenience and being maintained by Electrical Deptt. Over NWR. With the inclusion of Diesel Traction under PCEE, Electrical Deptt now also

The Energy consumption in year 2023-24 is 100 MU. As a reward of commendable work done in the field of Energy Conservation; North Western Railway has bagged 14 National Energy Conservation Awards from Ministry of Power (MoP), Govt. of India & 56 State Level Awards from Govt. of Rajasthan during the past years in different categories.

Initiatives have been taken to harness renewable energy sources over NWR. 14.188 MWp Solar Power plant provided over NWR which generates Approx. 8 MU electric energy. Solar Water Heating Plants of capacities 4000 LPD & 1000 LPD also provided for Industrial purpose at JU (WS).

Total 5409 RKM has been electrified on 25 kV up to 30.01.2025 over NWR. Electrification is progressing rapidly and trains operation therefore is getting switched over from Diesel to Electric traction as of now more than 189 pair trains (Approx. 67.5%) and approximately 35.7% of freight trains (GTKMs) working on electric traction.