

I/34232/2024



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली संचार विकास प्रभाग
Power System Communication Development
Division

| CEA Case No. : MP-509 | | |
|--|--|--------------|
| Induced Voltage (IV) calculation for PTCC proposal of 220 kV S/C Transmission Line from 400/220 kV Pachora S/s to 220/33 kV Unit-4 S/s [Length- 0.831 km] - Regd. | | |
| S. No | Reference No. | Dated |
| (i) | RUMS: F/RUM/2022/REP/05-059/263 | 15.06.2023 |
| (ii) | RUMS e-mail | 13.02.2024 |
| (iii) | RUMS e-mail | 01.03.2024 |
| (iv) | BSNL: PTCC/WR/2023-24/MP-819 | 05.12.2023 |
| (v) | Western Railway: SG.158/28/10/L-286 | 30.01.2024 |
| (vi) | West Central Railway: WCR/N-HQ/120PTCC-CORR-T-50-Pt-III Case-397(Unit-4) | 16.02.2024 |

The PTCC proposal submitted vide reference (i), (ii) and (iii) has been examined. DET (WZ), BSNL vide reference (iv), Western Railway vide reference (v) and West Central Railway vide reference (vi) have issued No Objection Certificate (NOC) for charging of the line.

EPR Zones for proposed substations are mentioned below:

| Name of the proposed SS | Half Diagonal Distance, D/2 (mts) | Fault Current, I (kA) | Resistance of earth mat, R (Ohms) | d (mts) at 430 V | d (mts) at 650 V | d (mts) at 7 kV | d (mts) at 10 kV |
|-------------------------|-----------------------------------|-----------------------|-----------------------------------|------------------|------------------|-----------------|------------------|
| 220/33 kV Unit-4 S/s | 113 | 40 | 0.101 | 982 | 610 | NA | NA |
| 400/220 kV Pachora S/s | 73 | 44.1 | 0.22 | 3730 | 2409 | 67 | NA |

As per the Telecom Details submitted by BSNL vide above reference (iv) no telephone exchange of BSNL is falling within the EPR zone of proposed Substations.

Telecommunication details from DG Signals, MoD are pending. However, vide above reference (iii), Transmission Utility has shown urgency for charging the line and requested for provisional PTCC clearance.

In view of the above, it is requested that provisional PTCC route approval may be issued for the subject transmission line under intimation to this office.

Encl.: As above

Chief Engineer

I/34232/2024

To,

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|----|--|--|---|
| 1. | Divisional Engineer (PTCC), Western Zone | QA & Inspection circle, 1 st floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santa Cruz (West), Mumbai-400054 | |
| 2. | Director General of Signals | General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105 | With a request to provide details of Telecom assets/ NOC at the earliest for issuance of final RAC. |
| 3. | Executive Engineer RUMS Ltd. | Urja Bhjawan, Shivaji Nagar Bhopal | For Information |