

I/34075/2024



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-510		
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-5 S/s [Length- 32.206 km] - Regd.		
S. No	Reference No.	Dated
(i)	RUMS: F/RUM/2022/REP/05-059/264	15.06.2023
(ii)	RUMS e-mail	13.02.2024
(iii)	BSNL: PTCC/WR/2023-24/MP-820	05.12.2023
(iv)	Western Railway: SG.158/28/10/L-287	30.01.2024
(v)	West Central Railway: WCR/N-HQ/120PTCC-COO-T-50-Pt-III Case-398(Unit-5) received via RUMS e-Mail dated 21.02.2024	16.02.2024
(vi)	Defense: B/46937/Sigs7(b)/3438	14.11.2023

The PTCC proposal submitted vide reference (i) and (ii) has been examined. DET (WZ), BSNL vide reference (iii), Western Railway vide reference (iv), West Central Railway vide reference (v) and DG Signals, MoD 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-5 S/s	130	40	0.11	1200	750	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 (iii) no telephone exchange of BSNL is falling within the EPR zone of proposed Substations.

Taking above into consideration, necessary action regarding issuance of PTCC approval for the subject cited transmission line might be taken under intimation to this office.

Encl.: As above

Chief Engineer

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To,

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.	Executive Engineer RUMS Ltd.	Urja Bhjawan, Shivaji Nagar Bhopal	For Information