



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

CEA Case No. : MP-512		
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-7 S/s [Length- 15.924 km] - Regd.		
S. No	Reference No.	Dated
(i)	RUMS: F/RUM/2022/REP/05-059/266	15.06.2023
(ii)	RUMS e-mail	13.02.2024
(iii)	BSNL: PTCC/WR/2023-24/MP-822	05.12.2023
(iv)	West Central Railway: WCR/N-HQ/120PTCC-COO-T-50-Pt-III Case-398(Unit-7)	16.02.2024
(v)	Defense: B/46937/Sigs7(b)/3440 (Received via RUMS e-Mail dated 01.07.2024)	30.10.2023

The PTCC proposal submitted vide reference (i) and (ii) has been examined. DET-PTCC (WZ), BSNL vide reference (iii), West Central Railway vide reference (iv) and DG Signals, MoD vide reference (v) 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-7 S/s	117	40	0.161	1635	1042	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

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