

I/34414/2024



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-506		
Induced Voltage (IV) calculation for PTCC proposal of 220 kV S/C Transmission Line from 220/33 kV Unit -1 (KhedaMoka ka Dol) S/s to Unit-2 S/s [Length- 3.796 km] - Regd.		
S. No	Reference No.	Dated
(i)	RUMS: F/RUM/2022/REP/05-059/378	21.07.2023
(ii)	RUMS e-mail	13.02.2024
(iii)	BSNL: PTCC/WR/2023-24/MP-816	05.12.2023
(iv)	Western Railway: SG.158/28/10/L-283	30.01.2024
(v)	West Central Railway: WCR/N-HQ/120PTCC-COO-T-50 received via RUMS e-Mail dated 21.02.2024	12.01.2024
(vi)	Defense: B/46937/Sigs7(b)/3461	03.01.2024

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-1 S/s	117	40	0.11	1080	675	NA	NA
220/33 kV Unit-2 S/s	117	40	0.121	1200	754	NA	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