



सत्यमेव जयते

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

CEA Case No. : RAJ-709		
Induced Voltage (IV) calculation for PTCC proposal of 220 kV S/C line on D/C tower from 400 kV Pachpadra S/s to HRRL Switchyard Circuit-II (15.190 km) - Regd.		
S. No	Reference No.	Dated
(i)	RVPN/SE(QC-INSP&Montg.)/XEN (PTCC)/JPR/F.1951-A/D.576	27.10.2022
(ii)	RVPN/SE(QC-INSP&Montg.)/XEN/F.1951-A/Rajkaj No.3478497	27.03.2023
(iii)	RVPN e-Mail	21.09.2023
(iv)	BSNL: DET/PTCC/ND/DV-10184/Raj-1405/2023-2024	23.05.2023
(v)	North Western Railway: SG/158/NWR/PTCC/902	21.03.2023
(vi)	Defense: B/46937/Sigs7(b)/3099	02.02.2023

The PTCC proposal submitted vide reference (i), (ii) and (iii) has been examined. DET (NZ), BSNL vide reference (iv), North Western 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 earthmat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
400 kV Pachpadra GSS	242	35	0.10	1728	1061	NA	NA
220 kV HRRL Substation	125	28	0.12	852	521	NA	NA

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

[Signature]
27/9/23

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Northern Zone	BSNL, O/o GM (North), QA & Inspection Circle D-Tax Building, Eastern Court, Janpath, New Delhi	
2.	Superintending Engineer (QC, Inspection & Monitoring),	RVPNL Room No. 320, Vidyut Bhawan, Jyoti Nagar, Jaipur	