



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. : RAJ – 846		
Induced Voltage (IV) calculation for PTCC proposal of LILO of 220 kV S/C Bhilwara – Baman ka Tudka Transmission line at proposed 220 kV GSS Raipur [Length- 8.250 km]- Regd.		
S. No	Reference No.	Dated
(i)	RRVPNL: RVPN/SE (QC, insp. & Montg.)/XEN (PTCC)/F.2098-A-00383-Rajkaj No. 15014311	30.04.2025
(ii)	RRVPNL: e-mail	09.03.2026
(iii)	BSNL: DE/PTCC/NZ/BSNL-TD/DV-10596/Raj-1627/2025-26 received via e-mail on 19.02.2026	11.09.2025
(iv)	North Western Railway: SG/158/NWR/PTCC/1125	23.06.2025
(v)	Defense: B/46937/Sigs-7(b)/4793	22.07.2025

The PTCC proposal submitted vide references (i) and (ii) has been examined. As per the Telecom Details submitted by BSNL vide above reference (iii), there is no copper cable or armoured OFC within 8 km boundary and hence IV computation is not done. Dy. CSTE/Tele, North Western Railway, vide reference (iv), and DG Signals, MoD, vide reference (v), have issued their No Objection Certificates (NOCs) for charging of the line.

EPR zone for proposed S/s is mentioned below:

Name of the proposed Substation	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 kV GSS Raipur	151.52	9.33	0.756	2334	1493	1	N.A

As per the Telecom Details submitted by BSNL vide above reference (iii), there is no Telephone Exchange/BTS lying within the EPR zone of proposed 220 kV GSS Raipur.

Taking above into consideration, necessary action for issuance of PTCC route approval (RAC) shall be taken under intimation to this office in the stipulated period as specified in PTCC Manual and subsequent CLPTCC meetings.

As per the decision taken in 111th and 112th CLPTCC meeting, necessary instructions for “Deemed Energization approval” shall be specified while issuing RAC.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Northern Zone	O/o GM(N), QA & Inspection circle, D-Tax Building, Eastern Court Janapath, New Delhi-110001
2.	SE (QC, Insp. & Montg.)	O/o Superintending Engineer (QC, Inspection & Monitoring) Room No. 320, Vidyut Bhawan, Jyoti Nagar, Jaipur - 302005