



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**  
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<b>CEA Case No. : RAJ-775</b>		
<b>Induced Voltage (IV) calculation for PTCC proposal of LILO of 220 kV S/C Neemrana - Bhiwadi Transmission Line at 220 kV Karoli S/s [Length- 5.0 km]– Regd.</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	RRVPNL: RVPN/SE(QC,Insp.&Montg.)/XEN(PTCC)/F.2049-A-00309-RajkajNo-12317013	09.12.2024
(ii)	RRVPNL: e-Mail	23.04.2025
(iii)	BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10478/RAJ-1545/2024-25	21.03.2025
(iv)	North Western Railway: SG/158/NWR/PTCC/1072	25.02.2025
(v)	Defense: B/46937/Sigs7(b)/4333	04.03.2025

The PTCC proposal submitted vide reference (i) and (ii) has been examined. DET-PTCC, NZ BSNL vide reference (iii), Dy.CSTE/Tele North Western Railway vide reference (iv) and DG Signals, MoD vide reference (v) has issued No Objection Certificate.

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 7kV	d (mts) at 10kV
220 kV Karoli S/s	164	45	0.127	2016	1278	N.A	N.A

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 Substation.

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 111<sup>th</sup> and 112<sup>th</sup> CLPTCC meeting, necessary instructions for “Deemed Energization approval” shall be specified while issuing RAC.

**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-110001	
2.	S.E (QC, Ins.& Montg.)	O/o S.E (QC, Ins.& Montg.) Vidyut Bhawan, Jaipur	Copy for information.