



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-733		
Induced Voltage (IV) Calculation for PTCC proposal of 220 kV S/C line from 220/33 kV Pooling S/s of NHPC 300 MW Solar Power plant to 400/220 kV Bikaner-II S/s of PGCIL (Length: 24.0 kms)		
S. No	Reference No.	Dated
(i)	CEA/PTCC/NHPC-300MW/01/12/2023	07.12.2023
(ii)	BSNL: DET/PTCC/ND/DV-10332/Raj-1458/2023-24	16.03.2024
(iii)	North Western Railway: SG/158/NWR/PTCC/946	15.12.2023
(iv)	Defense: B/46937/Sigs 7(b)/3638	23.02.2024

The PTCC proposal submitted vide reference (i) has been examined. BSNL vide reference (ii) has stated that “ there is no BSNL line and circuit in the periphery of 8 km of the proposed power line”. North Western Railway vide reference (iii) and DG Signals, MoD vide reference (iv) has issued their No Objection certificate (NOC) for charging of the line.

EPR zone for the proposed substation 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
220/33 kV Pooling S/s of NHPC 300 MW Solar Power plant	57.12	28	0.36	1282	829	25	NA

As per the details submitted by BSNL vide reference (ii) above, no telephone exchanges are falling in the EPR zone of the proposed substation.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

Chief Engineer

I/34866/2024

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.	NHPC ltd.	C-181 (A), Karni Nagar, Bikaner, Rajasthan – 334 001	For information