



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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CEA Case No. : RAJ-740		
Induced Voltage (IV) Calculation for PTCC proposal for 220 kV D/C line from 220/33 kV PSS for 500 MW Solar plant of AREH4L to 765/400/220 kV Fatehgarh-II S/s (Length: 12 kms: OH 5.5 kms UG 6.5 kms)- regd.		
S. No	Reference No.	Dated
(i)	CEA/PTCC/AREH4L/Bhimsar/01	12.03.2024
(ii)	BSNL: DET/PTCC/ND/DV-10401/Raj-1498 /2023-2024	23.09.2024
(iii)	North Western Railway: SG/158/NWR/PTCC/959	16.04.2024
(iv)	Defense: B/46937/Sigs 7(b)/3832	23.07.2024

The PTCC proposal submitted vide reference (i) has been examined. DET, PTCC (NZ), BSNL vide reference (ii), 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 500 MW Solar PSS of M/s AREH4L	83.6	25.65	0.5943	2880	1877	98	44

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

**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.	M/s Adani Renewable Energy Holding Four Limited	Adani Corporate House, Shantigram, Nr. Vaishnavi Devi Circle, SG Highway, Khodiyar, Ahmedabad – 382 421	For information