



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-742		
Induced Voltage (IV) Calculation for PTCC proposal of 220 kV transmission line on DC tower from 765/400/220 kV Fatehgarh-III S/s of PGCIL to 600 MW 400/33 kV PSS of M/s Adani Renewable Energy Holding Seventeen Ltd. (Length: 42 Kms)- regd.		
S. No	Reference No.	Dated
(i)	AREH17L/Bhaiya/600MW/24/01	12.03.2024
(ii)	CEA Letter: I/39785/2024	01.05.2024
(iii)	AREH17L E-mail	18.05.2024
(iv)	AREH17L E-mail	23.08.2024
(v)	BSNL: DET/PTCC/ND/DV-10391/Raj-1490 /2024-25	07.08.2024
(vi)	North Western Railway: SG/158/NWR/PTCC/959 (Received via E-mail from AREH17L on 23.08.2024)	16.04.2024
(vii)	Defense: B/46937/Sigs 7(b)/3835	22.07.2024

The PTCC proposal submitted vide reference (i), (iii) and (iv) has been examined. DET, PTCC (NZ), BSNL vide reference (v), North Western Railway vide reference (vi) and DG Signals, MoD vide reference (vii) 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
600 MW 400/33 kV PSS of M/s AREH17L	83.6	25.65	0.5943	3734	2405	50	NA

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 Seventeen Limited	C-105, Anand Niketan, New Delhi 110 021	For information