



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. : UP-670</b>		
<b>Induced Voltage (IV) calculation for PTCC proposal of 220 kV S/C Charkhari (Mahoba) to Kabrai (Mahoba) Transmission Line on D/C Tower [Length-32 km] - Regd.</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	UPPTCL: 764/ETDH/	17.08.2024
(ii)	BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10540/UP-1231/2025-26	28.05.2025
(iii)	North Central Railway: NCR/S&T/2074/Telecom/PTCC (Part-2)	26.09.2024
(iv)	Defense: B/46937/Sigs7(b)/4205	16.01.2025

The PTCC proposal submitted vide reference (i) has been examined. DET-PTCC NZ, BSNL vide reference (ii), CSTE, North Central Railways vide reference (iii) and ADG (Telecom), MoD vide reference (iv) have issued No Objection Certificate (NOC).

EPR zone for 220 kV 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 Kabrai S/s	123	24	0.027	62	N.A	N.A	N.A
220 kV Charkhari S/s	132	24	0.081	465	263	N.A	N.A

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 PGM(North), QA & Inspection Circle D-Tax Building, Eastern Court, Janpath New Delhi-110001	
2.	Executive Engineer UPPTCL	ETD - UPPTCL 132 kV S/s Bharuwa, Hamirpur	Copy for information.