



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. : HRA-261</b>		
<b>Induced Voltage calculation for PTCC proposal of 220kV D/C Transmission Line from 400 kV PGCIL (Naggal) to Proposed 220kV Sadhaura S/s (Length: 36.12 km).</b>		
<b>Reference:</b>		
<b>S. No.</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	HVPNL:11/C&D-124/PTCC	08.01.2025
(ii)	Email	23.12.2025
(iii)	BSNL: DE/PTCC/NZ/BSNL-TD/DV-10640/HR-897/2025-2026	18.12.2025
(iv)	Northern Railway: 342-SIG/1/PTCC/N/2025-26/04/03	08.04.2025
(v)	Defense: B/46937/Sigs-7(b)/4433	02.04.2024

The PTCC proposal submitted vide reference (i) and (ii) have been examined. DET (PTCC), NZ, BSNL vide reference (iii), GM (S&T), Northern Railway vide reference (iv) and DG Signals, MoD vide reference (v) has issued No Objection Certificate (NOC) for charging of the line.

EPR Zones for proposed substation is mentioned below:

Name of the proposed S/s	Half Diagonal Distance, D/2 (mts)	Fault Current, I (kA)	Resistance of earthmat, R (Ohms)	d (mts) at 430 V	d (mts) at 650V	d (mts) at 7 kV	d (mts) at 10kV
220kV SADHAURA S/s	203	28	0.15	1780	1109	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 111th and 112th CLPTCC meeting, necessary instructions for "Deemed Energization approval" shall be specified while issuing RAC.

Digitally signed by  
Suman Kumar Maharana  
Date: 30-12-2025  
11:22:51

**Chief Engineer**

**To,**

1.	Divisional Engineer (PTCC), North Region	DET(PTCC), Northern zone O/o GM(N), QA & Inspection Circle, D-tax Building, Eastern Court, Janpat, New Delhi- 110001
2.	Chief Engineer (T/S) HVPNL	O/o Chief Engineer T/S HVPNL, Panchkula