



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-792		
Induced Voltage (IV) calculation for PTCC proposal of 220 kV D/C Fatehgarh IV to Fatehgarh III Transmission Line [Length- 21.348 km] - Regd.		
S. No	Reference No.	Dated
(i)	Fatehgarh IV Transmission Limited: F4TL/24-25/PTCC-017	30.01.2025
(ii)	Fatehgarh IV Transmission Limited: F4TL/24-25/PTCC-022	20.03.2025
(iii)	BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10543/RAJ-1592/2025-26	05.06.2025
(iv)	North Western Railway: SG/158/NWR/PTCC/1047	03.02.2025
(v)	Defense: B/46937/Sigs7(b)/4407	25.03.2025

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

EPR zone for 400/220 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
400/220 kV Fatehgarh-IV S/s	237	44.1	0.04	735	406	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.

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.	Head Transmission Fatehgarh IV Transmission Limited	T- 15 A, Third Floor, Salcom Rasvillas Saket, New Delhi	Copy for information.