



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-880		
Induced Voltage (IV) calculation for PTCC proposal of 400 kV D/C Bikaner II - Bikaner III Transmission Line [Length- 31.369 km]– Regd.		
S. No	Reference No.	Dated
(i)	PBNTL: PBNTL/TL01/PTCC/CEA/1056	28.07.2025
(ii)	PBNTL: e-Mail	22.01.2026
(iii)	BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10661/RAJ-1674/2025-26	16.01.2026
(iv)	North Western Railway: SG/158/NWR/PTCC/1174	16.09.2025
(v)	Defense: B/46937/Sigs7(b)/4885	12.08.2025

The PTCC proposal submitted vide above references (i) and (ii) has been examined. DET(PTCC), NZ BSNL vide reference (iii), Dy. CSTE, NWR vide reference (iv) and DG Signals, MoD vide reference (v) has issued their respective No Objection Certificate (NOC).

EPR Zones for proposed substation is mentioned below.

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current, I (kA)	Resistance of earthmat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
765 kV Bikaner-III S/s	386	44.1	0.172	6423	4118	32	NA

As per the details submitted by BSNL vide reference (iii) above, no telephone exchanges are falling in the EPR zone of the proposed substation.

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: 03-02-2026
 17:33:53
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.	Sr.DGM PBNTL	Leela Gauri Heights, B-1 Karni Nagar, Bikaner	Copy for information.