



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. : RAJ-938</b>		
<b>Induced Voltage (IV) calculation for PTCC proposal of 220 kV S/C Transmission Line on D/C towers from 220 kV 300 MW PSS of M/s Deshraj Solar Energy Private Limited at Karnisar to 765 kV Bikaner-III GSS at Bikaner (Length: 11.08 km) - Regd.</b>		
S. No	Reference No.	Dated
(i)	M/s Deshraj Solar Energy Private Limited: DSEPL/2025-26/Reg./PTCC/021	18.11.2025
(ii)	BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10746/RAJ-1745/2025-26	09.04.2026
(iii)	North Western Railway: SG/158/NWR/PTCC/1283	21.01.2026
(iv)	Defense: B/46937/Sigs7(b)/5447	20.02.2026

The PTCC proposal submitted vide above references (i) has been examined. DET(PTCC), NZ BSNL vide reference (ii) has mentioned that only BTS are present within 8 km boundary and hence IV computation is not required.

Dy. CSTE, NWR vide reference (iii) and DG Signals, MoD vide reference (iv) 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
220 kV PSS	73	26.83	0.192	802	506	24	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: 28-04-2026  
 16:03:31

**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.	Project Development Manager	M/s Deshraj Solar Energy Private Limited 2A, Lord Snha Road, Middleton, Kolkata	Copy for information.