



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-765		
Induced Voltage (IV) Calculation for PTCC proposal of 220 kV S/C line on D/C tower from 220/33 kV Solar PSS of M/s Khidrat Renewable Energy Private Limited Randheesar Village, Bikaner to 400/220 kV Bikaner-II SS of PGCIL (Length: 14.8 kms)		
S. No	Reference No.	Dated
(i)	SKI/KREPL/24-25/PTCC/001	21.10.2024
(ii)	BSNL: DE/PTCC/NZ/BSNL-TD/DV-10441/RAJ-1525/2024-25	19.12.2024
(iii)	North Western Railway: SG/158/NWR/PTCC/1004	07.11.2024
(iv)	Defense: B/46937/Sigs 7(b)/4262	20.01.2025

The PTCC proposal submitted vide reference (i) has been examined. DET (PTCC), NZ, BSNL vide reference (ii), Dy. CSTE, North Western Railway vide reference (iii) and DG Signals, MoD vide reference (iv) has given their NOC for charging the line.

EPR Zones for proposed substations are 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
220/33 kV Solar PSS of M/s Khidrat Renewable Energy Private Limited Randheesar Village, Bikaner	105.67	30	0.627	4517	2952	178	93

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.	M/s Khidrat Renewable Energy Private Limited	401, Level 4, Salcon Rasvilas Building, Saket District Centre, New Delhi – 110 017