



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-946		
Induced Voltage (IV) calculation for PTCC proposal of 400 kV S/C line on D/C tower from Common Pooling Substation -1 (PSS-1) of M/s ReNew Solar (Shakti Six) Private Limited at Bhadla to Bhadla-III Substation of PGCIL (Length: 39.04 kms)		
S. No	Reference No.	Dated
(i)	RSSSPL/CEA/PTCC-01	24.11.2025
(ii)	E-mail	02.03.2026
(iii)	BSNL: DE/PTCC/NZ/BSNL-TD/ DV-10673/Raj-1684 /2025-26	28.01.2026
(iv)	North Western Railway: SG.158/NWR/PTCC/1267	09.01.2026
(v)	Defense: B/46937/Sigs-(b)/5395	07.01.2026

The PTCC proposal submitted vide reference (i) and (ii) has been examined. DET, PTCC (North Zone), BSNL vide reference (iii) has stated non-existence of any BSNL UG metallic cable or armored OFC within the periphery of the proposed route of transmission line.

GM (S&T), North Western Railway, vide reference (iv), and ADG (Telecom) MoD, vide reference (v), have issued their No Objection Certificates (NOCs) for charging of the line.

EPR zone for 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 7 kV	d (mts) at 10 kV
Common Pooling Substation -1 (PSS-1) of M/s ReNew Solar (Shakti Six) Private Limited	66.46	37.68	0.209	1151	739	8	NA

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), Western Zone	QA & Inspection circle, 1 st floor, D- wing, BSNL Admin Bldg., Juhu Tara Road, Santacruz (West), Mumbai-400054	
2.	M/s ReNew Solar (Shakti Six) Private Limited	ReNew Hub, Commercial Block-1, Zone-6, Golf Course Road, DLF City Phase-V, Gurugram – 122 009	Copy for information.