



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

CEA Case No. : RAJ-751		
Induced Voltage (IV) calculation for PTCC proposal of 220 kV S/C transmission line from 320 MW 220/33 kV Solar PSS of M/s NTPC REL, Bhainsara, Jaisalmer to 400/220 kV Jaisalmer-2 S/s (RVPN) (Length: 11 kms)		
S. No	Reference No.	Dated
(i)	NTPC REL/CEA/PTCC/320MW/05/2024	18.05.2024
(ii)	NTPC REL E-mail:	13.07.2024
(iii)	BSNL: DET/PTCC/ND/DV-10386/Raj-1487/2024-2025	24.07.2024
(iv)	North Western Railway: SG/158/NWR/PTCC/968	06.07.2023

The PTCC proposal submitted vide reference (i) has been examined. DET (NZ), BSNL vide reference (iii) and Dy. CSTE, NWR vide reference (iv) have issued their No Objection Certificate (NOC)

EPR Zones for proposed substation are mentioned below.

Name of the proposed SS	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
320 MW 220/33 kV Solar PSS of M/s NTPC REL, Bhainsara, Jaisalmer	57.12	40	0.36	1856	1208	60	25

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

Telecommunication details from DG Signals, MoD are awaited however, vide reference (ii) above, M/s NTPC REL has informed that all construction related work of the transmission line has completed and the line is awaiting charging due to want of PTCC approval. So as to charge the subject cited transmission line as per schedule, M/s NTPC REL has requested for issuance of provisional PTCC clearance.

Taking above into consideration, necessary action for issuance of provisional PTCC route approval may be taken under intimation to this office. LF induction on telecommunication circuits of Defense, if any, will be communicated after the receipt of details from DG Signals, MoD.

Encl.: As above

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.	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105	With a request to provide details of Telecom assets/ NOC at the earliest for IV calculation and issuance of final RAC.
3.	M/s NTPC Renewable Energy Limited	NTPC Bhawan, SCOPE Complex, 7, Institutional Area, Lodhi Road, New Delhi - 110003	



एनटीपीसी नवीकरणीय ऊर्जा लिमिटेड
(एनटीपीसी लिमिटेड की पूर्ण स्वामित्व वाली सहायक कम्पनी)

NTPC Renewable Energy Limited

(A Group company of NTPC Limited)

REF: NTPC -REL /320 MW/PROVISIONAL-PTCC/TL/07/2024

Date: 13.07.2024

To,

The Deputy Director (PTCC), CEA
Grid operation & Distribution wiring
Central Electricity Authority,
Power communication Development Division,
NRPC Complex.18A- Saheed Jeet Singh Marg,
Katwari Sarai, New Delhi-110016

REF: 1. Our Letter No. NTPC REL/CEA/PTCC/320MW/05/2024 Dated 18.05.2024.

2. BSNL NOC letter No. G-18/PTCC/Dy. General Manager (OP) Jaisalmer/2023-24/ Dated 12.06.2024.

3. Railway Letter No. SG/158/NWR/PTCC/968 Dated 07.06.2024.

SUB: Request for Provisional PTCC Route approval for 220KV S/c Transmission line From NTPC REL 320 MW Solar Plant To RRVPNL 400/220KV Jaisalmer -II Substation, Jaisalmer, Rajasthan

Dear Sir,

With Reference to above cited subject, we would like to Inform that we have constructed 220KV S/c Transmission Line of Length Approx. 9 KM From NTPC REL 320 MW Solar Plant to RRVPNL's 400/220KV Jaisalmer -II Substation, Jaisalmer, Rajasthan and we have Power Purchase Agreement with Solar Energy Corporation of India (SECI for the Period of 25 Years.

We have applied for PTCC approval vide above mentioned letter dated 18.05.2024 and Obtained NOC from the BSNL and North -West Railway copy enclosed for your reference and Defence NOC awaited.

Now We have completed all the Construction activity including the Transmission Line from the Plant to **RRVPNL 400/220KV Jaisalmer -II Substation, Jaisalmer** and ready for Charging so looking to stringent time line to connect the Plant before **20.07.2024**, we request you kindly forward the case for the Provisional PTCC Route Approval till we receive **NOC from Defence**.

"We hereby undertake that if there is any impact on Telecom assets of defence due to charging of this line, NTPC REL will take all remedial measures to rectify the same"

Thanking you,

Yours Truly,

For **NTPC Renewable Energy Limited**.

Rakesh Swami

DGM-Electrical

CC : The Divisional Engineer Telegraph (PTCC), North Zone
O/o PGM (North), BSNL,
QA& Inspection Circle,
D-Tax Building, Eastern Court,
Janpath, New Delhi-110001

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