



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**

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<b>CEA Case No. : RAJ-770</b>		
<b>Induced Voltage (IV) calculation in respect of PTCC proposal of 400kV S/C Line from 500MW Solar Power Project of NTPC REL at Bhadla –II to 400kV GSS, Bhadla (Jodhpur) (1.3 km)- regd.</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	NTPC REL: NTPCREL/Dec'24/Bhadla	02.12.2024
(ii)	NTPC REL : Email	25.06.2025
(iii)	BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10467/RAJ-1537/2024-25	10.02.2025
(iv)	North Western Railway: SG/158/NWR/PTCC/1019	16.12.2024
(v)	Defense: B/46937/Sigs 7(b)/4324	07.02.2025

The PTCC proposal submitted vide above references (i) and (ii) has been examined. DET (PTCC), NZ (BSNL) and North Western Railway has issued NOC vide references (iii) and (iv) above.

ADG (Telecommunications) has issued No Objection Certificate (NOC) vide reference (v) above (attached as Annexure –I).

EPR Zones for proposed substations are mentioned below.

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current, I (k A)	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
Solar Power Project Bhadla – II (NTPC REL)	157.5	63	0.106	2289	1461	NA	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.

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.	General Manager (500MW Bhadla –II Solar - NTPC REL)	NTPC Bhawan, SCOPE Complex 7 , Institutional area, Lodhi Road , New –Delhi- 110003	Copy for information

## Annexure I

Directorate General of Signals  
(Signals 7)  
General Staff Branch  
Integrated HQ of MoD (Army)  
Room No  
DHQ PO, New Delhi - 110011

B/46937/Sigs-7(b)/4324


07 Feb 2025

Rajasthan Rajya Vidyut Prasaran Nigam Ltd  
Vidyut Bhawan, Janpath, Jyoti Nagar  
Jaipur-302 005 (Rajasthan)

**PTCC ROUTE APPROVAL REGARDING DEVELOPMENT OF 400KV S/C  
TRANSMISSION LINE FROM 500 MW SOLAR POWER PROJECT OF NTPC  
RENEWABLE ENERGY LIMITED (NTPC REL) AT BHADLA-II, JODHPUR TO  
400 KV GSS, BHADLA, JODHPUR**

1. Ref your letters No. RVPN/SE(P&P)/XEN-2(P&P)/AE-2/F.10/D/037 dt 26 Aug 2022 and NTPCREL/Dec' 24/Bhadla dated 02 Dec 2024.
2. No Objection Certificate (NOC) is **accorded** based on inputs provided as per Map sheet received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.



  
(Puneet Lakhanpal)  
Lieutenant Colonel  
General Staff Officer Grade-1 (Communication)  
for Additional Director General (Telecommunication)

**Enclosures:** As above

**Internal:-**

HQ Southern Comd (Sigs) - for info pl.