

I/31899/2023



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**

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<b>CEA Case No. : RAJ-713</b>		
<b>Induced Voltage (IV) calculation for PTCC approval of 220 kV S/C Transmission Line from 220 kV Amplus Switchyard Jai, Bikaner to Bikaner-II PSS [Length – 2.89 km]-Regd.</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	GEPL: PTCC/Grian/23-24/001	22.05.2023
(ii)	GEPL Letter	11.10.2023
(iii)	GEPL: PTCC/PTCC/01	20.11.2023
(iv)	BSNL: DET/PTCC/ND/DV-10261/RAJ-1429/2023-27/	07.11.2023
(v)	North Western Railway: SG/158/NWR/PTCC/918	21.06.2023

The PTCC proposal submitted vide reference (i) and (ii) has been examined. DET, NZ, BSNL and Dy. CSTE, Northwest Railway has issued No Objection Certificate (NOC) vide reference (iv) & (v) respectively.

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
220/33 kV Amplus Switchyard at Jai, Bikaner	75	35	0.431	2556	1666	87	38

Telecommunication details from Defense are pending and the power utility has shown urgency for charging of the line and requested for provisional PTCC approval vide above reference (iii). Taking above into consideration, necessary action regarding issuance of provisional PTCC approval for the subject cited transmission line may be taken under intimation to this office.

Encl.: As above

**Director**

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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.	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 issuance of final RAC.
3.	Grian Energy Pvt. Ltd.	A-57, DDA Shed , Okhla Industrial Area, New Delhi	Copy for information.