

I/33231/2024



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-712   |   |            |
|--|---|------------|
| <b>Induced Voltage (IV) calculation for PTCC proposal of 400 kV S/C Transmission Line from 1 GW SJVN Solar Plant at Bhandarewala to ISTS PSS at Bikaner-II [Length- 17.824 km] - Regd.</b> |   |            |
| S. No  | Reference No.                                 | Dated      |
| (i)  | SJVN: SJVN/CHQ/BSPP/Trans/2023/988            | 21.02.2023 |
| (ii)   | BSNL: DET/PTCC/ND/DV-10181/Raj-1402/2022-2023 | 16.03.2023 |
| (iii)  | North Western Railway: SG/158/NWR/PTCC/912    | 22.03.2023 |
| (iv)   | Defense: B/46937/Sigs7(b)/3387                | 28.11.2023 |

The PTCC proposal submitted vide reference (i) has been examined. DET (NZ), BSNL vide reference (ii), North Western Railway vide reference (iii) and DG Signals, MoD vide reference (iv) have issued No Objection Certificate (NOC) for charging of the line.

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 earth mat, R (Ohms) | d (mts) at 430 V | d (mts) at 650 V | d (mts) at 7 kV | d (mts) at 10 kV |
|-------------------------|-----------------------------------|-----------------------|-----------------------------------|------------------|------------------|-----------------|------------------|
| 400 kV SJVN Plant S/s   | 148                               | 35                    | 0.155                             | 1719             | 1087             | NA              | NA               |

Taking above into consideration, necessary action regarding issuance of PTCC approval for the subject cited transmission line might be taken under intimation to this office.

Encl.: As above

**Chief Engineer**

To,

|    |   |   |  |
|----|---|---|--|
| 1. | Divisional Engineer (PTCC), Northern Zone | BSNL, O/o GM (North), QA & Inspection Circle<br>D-Tax Building, Eastern Court, Janpath, New Delhi |  |
| 2. | Chief General Manager-<br>SJVN Limited    | SJVN Corporate Headquarter<br>Shakti Sadan, Shimla  |  |