



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 Division

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| CEA Case No. : HRA-258 | | |
| Induced Voltage (IV) calculation for PTCC proposal of LILO of both circuits of 220 kV Mayar - Fatehabad Transmission Line at 220 kV Chikanwas S/s [Length- 4.754 km] - Regd. | | |
| S. No | Reference No. | Dated |
| (i) | HVPNL: 35/OMHW-148 | 01.05.2024 |
| (ii) | HVPNL: e-Mail | 16.06.2025 |
| (iii) | BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10535/HR-893/2025-26 | 01.05.2024 |
| (iv) | Northern Railway: 342-SIG/1/PTCC/N/2024-25/12/04 | 09.12.2024 |
| (v) | Defense: B/46937/Sigs7(b)/4251 (Received via HVPNL e-mail dated: 16.06.2025) | 04.03.2025 |

The PTCC proposal submitted vide reference (i) & (ii) has been examined. DET-PTCC NZ,BSNL vide reference (iii), ESTE, Northern Railways vide reference (iv) and DG Signals, MoD vide reference (v) have issued No Objection Certificate (NOC).

EPR zone for 220 kV 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 7kV | d (mts) at 10kV |
|---------------------------------|------------------------------------|----------------------|-----------------------------------|------------------|------------------|----------------|-----------------|
| 220 kV Chikanwas S/s | 148 | 24 | 0.118 | 827 | 497 | N.A | N.A |

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,

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|----|---|--|-----------------------|
| 1. | Divisional Engineer (PTCC), Northern Zone | BSNL, O/o PGM(North), QA & Inspection Circle D-Tax Building, Eastern Court, Janpath New Delhi-110001 | |
| 2. | Executive Engineer HVPNL | XEN-TS Division, HVPNL - Hisar | Copy for information. |