



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



| CEA Case No.: UP-665 | | |
|--|--|------------|
| Induced Voltage (IV) calculation for PTCC proposal of LILO of 220 kV Rasra – Deoria Transmission Line at 400 kV Rasra S/s [Length-10.728 km] - Regd. | | |
| S. No | Reference No. | Dated |
| (i) | UPPTCL: 816/ETD-(B)/M/sRSInfraPvt.Ltd. | 30.09.2024 |
| (ii) | UPPTCL: e-Mail | 24.03.2026 |
| (iii) | BSNL: DE/PTCC/NZ/ BSNL-TD/DV-10574/UP-1238/2025-26 | 02.08.2025 |
| (iv) | North Eastern Railway: NER-HQoSndT(TELE)/31/2020-O/OPCSTE/HQ/NER | 05.05.2025 |
| (v) | Defense: B/46937/Sigs7(b)/5462 (Received via e-mail Dated: 24.03.2026) | 19.02.2026 |

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on block & telecom circuits of North Eastern Railway with respect to details furnished vide above references (iv) has been computed. The voltages likely to be induced on paralleling block & telecom circuits of North Eastern Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors, as applicable, have been considered.

DET-PTCC NZ,BSNL vide reference (iii) and DG Signals, MoD vide reference (v) have issued their respective No Objection Certificate (NOC).

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.

Digitally signed by
Suman Kumar Maharana
Date: 27-03-2026
11:58:07
Chief Engineer

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. | GM (S&T) | North Eastern Railway HQ (S &T) Branch, Gorakhpur | |
| 3. | Executive Engineer UPPTCL | ETD - UPPTCL Balua | Copy for information. |

ANNEXURE-I

| CEA Case No.: UP-665 Name of the Power line: LILO of 220 kV Rasra – Deoria Transmission Line at 400 kV Rasra S/s | | | Map Scale : 1 cm= 500 m Total Length : 10.728 km S.R. Value : 20000 Ohm-cm | | |
|---|------------------------------|-------------------------------------|---|---|----------------------|
| S.No. | Telecom. Details | Length of Parallelism in Km. | Mutual Coupling in Ohms. | Effective Fault current in Amps. | I.V in Volts. |
| North Eastern Railway: NER-HQoSndT(TELE)/31/2020-O/OPCSTE/HQ/NER Dated 05.05.2025 | | | | | |
| <u>Affected Blocks & Telecom Circuits Details</u> | | | | | |
| 1 | RatanpuraR/s to Rasra R/s | -Out of Parallelism- | | | |
| 2 | Rasra R/s to Chilkahar R/s | 5.0 | 0.0054 | 23500 | 127 |
| 3 | Chilkahar R/s to Phephna R/s | -Out of Parallelism- | | | |