



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

| CEA Case No.: KNK-1011 | | |
|---|---|------------|
| Induced Voltage (IV) calculation for PTCC proposal of LILO of 400 kV DC UPCL (Nandikur NPCL) – Shanthigrama line at 400/220 kV KPTCL Kadandale RS, Dakshina Kannada Distt. (4.214 km)- regd. | | |
| S. No | Reference No. | Dated |
| (i) | KPTCL: CEE/SLDC/PTCC/F-3470/6008-15 | 13.10.2022 |
| (ii) | KPTCL: Email_EMD_Parameters | 20.12.2025 |
| (iii) | BSNL: SR-PTCC/SKT-4507/5 | 12.12.2025 |
| (iv) | Konkan Railway: कोरे/सि.ओ./एस.जी./पी टी सी सी /भाग -XIV | 10.04.2023 |
| (v) | Defense: B/46937/Sigs 7(b)/3067 | 08.12.2022 |

The PTCC proposal submitted vide above references (i) and (ii) has been examined. DET (PTCC), SZ vide reference (iii), Konkan Railway vide reference (iv) and ADG Telecom, MoD vide reference (v) have issued their No Objection Certificate (NOC).

EPR Zones for proposed substations are 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 |
|-------------------------|-----------------------------------|-----------------------|----------------------------------|------------------|------------------|-----------------|------------------|
| 400/220 kV Kadandale SS | 235 | 31.5 | 0.3 | 4930 | 3182 | 82 | 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

Chief Engineer

To,

| | | | |
|----|---|--|----------------------|
| 1. | Divisional Engineer (PTCC), Southern Zone | BSNL, Inspection Circle, 2 nd Floor, Sanchar Complex, WMS Compound, Jayanagar 5 th Block, 9 th Main, 47 th Cross, Bangalore-560041 | |
| 2. | CSTE (Konkan Railway) | Belapur Bhavan, Sector- 11, CBD Belapur, Navi Mumbai 400 614 | |
| 3. | Member (Power) SLPTCC | Chief Engineer Electricity, SLDC #28, Race Course Cross Road, Bengaluru - 560009 | Copy for Information |