



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-1021		
Induced Voltage (IV) calculation in respect of PTCC proposal for LILO of both circuits of 400 kV DC Nelamangala - Bastipura line at 400/220/66 kV S/s, Huliurdurga, Tumkur Distt. (Length: 7.228 km)- regd.		
S. No	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3493/7080-89	23.11.2022
(ii)	KPTCL: Email_EMD_Parameters	20.12.2025
(iii)	BSNL: SR-PTCC/SKT-4631/1	27.11.2025
(iv)	South Western Railway: SG/SWR/PTCC/F-3493/2462	13.02.2023
(v)	Defense: B/46937/Sigs 7(b)/3139	16.02.2023

The PTCC proposal submitted vide above references (i) and (ii) has been examined. DET (PTCC), SZ has issued NOC vide reference (iii) above. South Western Railway has issued NOC vide reference (iv) above. DG Signals, MoD has issued No Objection Certificate (NOC) vide reference (v).

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
400/220/66 kV RS at Huliurdurga	204.5	47.25	0.18	3840	2471	44	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.	PCSTE/SWR	Principal Chief Signal & Telecom Engineer, Rail Soudha, Gadag Road, Hubballi-580020	
3.	Member (Power) SLPTCC	Chief Engineer Electricity, SLDC #28, Race Course Cross Road, Bengaluru - 560009	Copy for Information