



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-1009		
Induced Voltage (IV) calculation for the PTCC proposal of the 220 kV DC line on DC/MC towers from 400/220 kV Kushtagi RS to 220/110 kV Kushtagi SS by disconnecting 220 kV Kushtagi – Sulekal and 220 kV Kushtagi – Lingasugur line at Tower No 69 (3.553 km)- regd.		
S.No.	Reference	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3447/5208-16	19.09.2022
(ii)	KPTCL: Email schematic diagram	21.02.2026
(iii)	BSNL: SR-PTCC/F-3447/5	11.12.2025
(iv)	South Western Railway: SG/SWR/PTCC/F-3447/2422	01.12.2022
(v)	Defense: B/46937/Sigs 7(b)/3043	08.12.2022

The PTCC proposal submitted vide above reference(s) (i) and (ii) has been examined. DET PTCC, SZ (Bangalore) vide reference (iii) and ASTE (SWR) vide reference (iv) above has issued NOC.

ADG (Telecommunications) has issued No Objection Certificate (NOC) vide reference (v) above (attached as Annexure).

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 Kushtagi SS	226.5	47.25	0.07	1516	926	NA	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

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 2nd Floor, Sanchar Complex, WMS Compound, Jayanagar 5th Block, 9th Main, 47th Cross, Bangalore-560041	
2.	Member (Power), KPTCL	Chief Engineer Electricity, SLDC #28, Race Course Road, Bengaluru-560009	Copy for information