



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-1033		
Induced Voltage (IV) calculation for the PTCC proposal of the 220 kV DC line on MC towers from 400/220 kV Kushtagi RS to 220/110 kV Gangavathi (Sulekal) SS, utilizing the corridors of the 220 kV Kushtagi–Lingasugur and 220 kV Gangavathi–Sindanur lines partially and disconnecting the line towards Lingasugur at Tower No. 468 and towards Sindanur at Tower No. 194. (1.871 km)- regd.		
S.No.	Reference	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3585/946-54	08.05.2023
(ii)	KPTCL: Email schematic diagram	21.02.2026
(iii)	BSNL: SR-PTCC/F-3585/5	11.12.2025
(iv)	South Western Railway: SG/SWR/PTCC/F-3585/2543	06.07.2023
(v)	Defense: B/46937/Sigs 7(b)/3370	07.07.2023

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

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

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

Tele : 23010746

Signals - 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi - 110011


B/46937/Sigs 7(b)/3370

07 Jul 2023

Office of the Chief Engineer Electricity,
Karnataka Power Transmission Corporation Limited
State Load Despatch Centre,
28, R.C. Cross Road,
Bengaluru - 560 009

**PTCC PROPOSAL FOR CONSTRUCTION OF 220KV DC LINE ON MC TOWERS
FROM PROPOSED 400/220KV RS AT KUSHTAGI TO EXISTING 220/110KV
GANGAVATHI (SULEKAL) SS (BY DRAWING 220KV DC LINE ON NEW
CORRIDOR FROM PROPOSED 400/220KV KUSHTAGI RS TO T.NO. 69 AND
T.NO. 69 TO EXISTING 220/110KV SS AT GANGAVATHI (SULEKAL). IN THE
EXISTING CORRIDOR OF 220KV KUSHTAGI-LINGASUGUR AND
GANGAVATHI-SINDANUR LINE CORRIDOR BY DISCONNECTING TOWARDS
SINDANUR AND LINGASUGUR SS AT T.NO. 194 AND 468, IN KUSHTAGI
TALUK, KOPPAL DISTRICT**

1. Refer your letter No CEE/SLDC/PTCC/F-3585/946-54 dt 08 May 2023 (copy att).
2. **No Objection Certificate (NOC) is accorded** based on inputs provided as per Map sheets received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.


(SP Choyal)
Lt Col
GSO 1 (Comn)
for ADG T

Enclosures : (As above)

Copy to :-

The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi - 110016

The DET(PTCC), Northern Zone
Bharat Sanchar Nigam Limited
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

- for information