



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-1036

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 Sindhanur SS, utilizing the corridors of the LILO of 220 kV Lingasugur–Sulekal line at Sindhanur SS and disconnecting the lines towards Lingasugur SS and Sulekal SS at LILO point (21.085 km)- regd.

S.No.	Reference	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3591/973-81	08.05.2023
(ii)	KPTCL: Email schematic diagram	21.02.2026
(iii)	BSNL: SR-PTCC/F-3599/5	12.12.2025
(iv)	South Western Railway: SG/SWR/PTCC/F-3599/2639	25.01.2024
(v)	Central Railway: N.153/PTCC/220kV/KAR-117	05.10.2023
(vi)	Defense: B/46937/Sigs 7(b)/3384	01.09.2023

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

ADG (Telecommunications) has issued No Objection Certificate (NOC) vide reference (vi) 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 : 23019746

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

KNK-1036

B/46937/Sigs 7(b)/3384

01 Sep 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 PROPOSED 220KV DC LINE ON MC TOWERS FROM PROPOSED 400/220KV KPTCL RS AT KUSHTAGI TO CONNECT THE EXISTING SINDHANUR LILO LINE TAPPED FROM LINGAPUR-LINGASUGUR SC LINE BY DISCONNECTING TOWARDS BOTH LINGAPUR & LINGASUGUR LINES USING EXISTING CORRIDOR FROM SINDHANUR SS TO LILO POINT FOR A DISTANCE OF 39.730KMS

1. Refer your letter No CEE/SLDC/PTCC/F-3599/1730-38 dt 25 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.



(SK Sharma)
 Lieutenant Colonel
 General Staff Officer Grade 1 (Communication)
 for Additional Director General (Telecommunication)

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

- for information

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

Central Electricity Authority

PCD Division

Diary No. 814

Date: 17/9/23

sh. Anshu (DD)

17/9/23

PP4: 318121
 05110

Sh. Prateek