



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-1015		
Induced Voltage (IV) calculation in respect of PTCC proposal for LILO of 220KV Bidnal – Haveri SC line at proposed 220/110KV Shiggaon SS, Haveri District (3.021 km)- regd.		
S. No	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3478/8591-93	12.01.2023
(ii)	KPTCL: CEE/SLDC/PTCC/F-3478/6370-78	03.11.2022
(iii)	KPTCL : Email _Earth Mat Parameters	26.06.2025
(iv)	KPTCL: Email_ Tower Schedule	21.11.2024
(v)	BSNL: SR-PTCC/SKT 4478/4	11.01.2023
(vi)	South Western Railway: SG/SWR/PTCC/F-3478/2449	09.01.2023
(vii)	Defense: B/46937/Sigs 7(b)/3108	03.01.2023

The PTCC proposal submitted vide above references (i) to (iv) has been examined. The LF induction on Block and Telecom circuits of BSNL with respect to details furnished vide above reference (v) has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of BSNL under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. South Western Railway has issued NOC vide reference (vi) above.

ADG (Telecommunications) has issued No Objection Certificate (NOC) vide reference (vii). (Enclosed as Annexure II).

All Substations are existing therefore EPR calculations are not warranted.

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

ANNEXURE-I

CEA Case No.: KNK-1015 Name of the Power line: LILO of 220KV Bidnal – Haveri SC line at proposed 220/110KV Shiggaon SS			Map Scale : 1 cm= 500 m Total Length : 3.021 km S.R. Value : 30000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

BSNL Letter No:SR-PTCC/SKT 4478/4 Dated 11.01.2023

Shiggaon Telephone Exchange Cables

1.	Shiggaon Telephone Exchange to Manakatti cross (C-C1)	3.03	0.07	27622	1934
2.	Shiggaon Telephone Exchange to Mallur (C-C1-C2)	3.03	0.07	27622	1934
3.	Shiggaon Telephone Exchange to Manakatti (C-C1-C3)	3.03	0.07	27622	1934
4.	Shiggaon Telephone Exchange to Ganginur (C to C4)	Out of Parallelism			
5.	Shiggaon Telephone Exchange to Kamanahalli (C-C5)	Out of Parallelism			
6.	Shiggaon Telephone Exchange to Pillar-23 (C-C6)	IV less than 430V			
7.	Shiggaon Telephone Exchange to Pillar -22 (C-C7)	Out of Parallelism			

Tele : 23019746

Annexure II

Directorate General of Signals

Signals 7

General Staff Branch

Integrated HQ of MoD, (Army)

DHQ PO, New Delhi - 110011

KNK-1015


B/46937/Sigs 7(b)/3108/

03 Jan 2023

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

**PTCC PROPOSAL FOR CONSTRUCTION OF 220KV LILO LINE ON MC TOWERS
FROM THE EXISTING 220KV BIDNAL-HAVERI SC LINE TO THE PROPOSED
220/110KV RS AT SHIGGAON (GANJIGATTI VILLAGE) IN SHIGGAON TALUK
HAVERI DISTRICT**

1. Refer your letter No CEE/SLDC/PTCC/F-3478/-6370-78 dt 03 Nov 2022 (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)
Lt Col
GSO 1 (Comn)
for Offg 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

- 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

AD-Pls Examine & pu
UK
14/1/23

