



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 Division

CEA Case No.: KNK-979		
Induced Voltage (IV) calculation in respect of PTCC proposal for LILO of 400 kV DC Dharmapuri – Somanahalli line at 400/220 kV Mylasandra RS(10.169 km)- regd.		
S. No	Reference No	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3269/7932-40	10.11.2021
(ii)	KPTCL: CEE/SLDC/PTCC/CEA/F-3269/1390-92	19.06.2024
(iii)	KPTCL: CEE/SLDC/PTCC/CEA/F-3269/6857-59	17.01.2025
(iv)	KPTCL : Email	20.08.2025
(v)	BSNL:SR-PTCC/SKT 3710/2	02.03.2024
(vi)	South Western Railway: SG/SWR/PTCC/F-3269/2256	11.07.2022
(vii)	Defense: B/46937/Sigs7(b)/2655	28.01.2022

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

ANNEXURE-I

CEA Case No.: KNK-979 Name of the Power line: LILO of 400 kV DC Dharmapuri – Somanahalli line at 400/220 kV Mylasandra RS			Map Scale : 1 cm= 500 m Total Length : 10.169 km S.R. Value : 30,000 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 3710/2 **Dated** 02.03.2024

HEBBAGODI EXCHANGE (HBG)

HBG-H1	Exchange to Hebbagodi	Out of Parallelism			
HBG-H2	Exchange to Huskur Cross				
HBG-H3	Exchange to Srinidhi Hotel				
HBG-H4	Exchange to Chandapura				

JIGANI Exchange (JGN)

JGN- J1	Exchange to Haregadde	IV less than 430 V			
JGN-J2	Exchange to Otis Circle				
JGN-J3	Exchange to Jigani Industrial Area				
JGN-J4	Exchange to OMAX Circle	0.4	0.0003	27761	8

Annexure II

Tele : 23019746

KNK-979

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


B/46937/Sigs 7(b)/2655

28 Jan 2022

Office of the Chief Engineer Electricity,
Karnataka Power Transmission Corporation Limited
State Load Despatch Centre,
2B, R.C. Cross Road,
Bengaluru - 560 009

PTCC PROPOSAL FOR CONSTRUCTION OF 400KV LILO LINE ON MC TOWERS FROM EXISTING 400KV DHARMAPURI-SOMANAHALLI DC QUAD TRANSMISSION LINE (PGCIL) TO THE EXISTING 400/220KV RS AT MYLASANDRA (UNDER CONSTRUCTION) BY PARTIALLY USING THE EXISTING 400KV SOMANAHALLI-KOLAR (PGCIL) SC LINE CORRIDOR (IN B/W T.NO 632 TO T.NO 605) IN BENGALURU SOUTH TALUK AND BENGALURU URBAN DISTRICT

1. Refer your letter No CEE/SLDC/ PTCC/F-3269/-7932-40 dt 10 Nov 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheet received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.


(Suresh Pal Choyal)
Lt Col
GSO 1 (Coord)
for SO-in-C

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
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

- for information

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