



भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
विद्युत संचार विकास प्रभाग  
Power Communication Development Division  
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No.: CEA/PCD/ PTCC/KNK-924/421-23

Date: 25.08.2020

**Subject: PTCC proposal of 220 kV LILO line from existing 220 kV Antharasanahalli-Peenya SC Line [B1 line] to the existing 400/220 kV SS at Nelamangala in Nelamangala Taluk Bengaluru Rural District.-regd.**

**Ref. :** (i) KPTCL Ref. No. CEE/SLDC/PTCC/F-2954/6976-84 Dated: 09.08.2019  
(ii) BSNL Ref. No. SR-PTCC/SKT-2570/3 Dated: 04.12.2019  
(iii) South Western Railway Ref. No.SG/SWR/PTCC/F-2954/1949 Dated: 13.09.2019  
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1780 Dated: 16.10.2019

The PTCC proposal submitted vide ref. (i) has been examined. The low frequency induction on telecom cables of BSNL and Block & Telecom circuits of South Western Railway with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The Soil Resistivity (SR) value has been taken as 25,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of South Western Railway under Single Line to Ground fault condition are enclosed at Annex-I and Annex-II respectively. The screening factors, as applicable, have been considered. Vide ref. (iv) above, Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annex-III).

Taking above into consideration, kindly take necessary action for PTCC route approval.

Encl.: As above.

*Upendra Kumar*  
25.08.2020  
(Upendra Kumar)  
Chief Engineer

To,  
The Divisional Engineer (PTCC), Southern Zone,  
Bharat Sanchar Nigam Limited (BSNL),  
O/o DET (PTCC), Inspection Circle,  
1<sup>st</sup> Floor, Raj Bavan Exchange No. 26,  
Sardar Patel Road, Guindy, Chennai-600032.

M/C

Contd.

(Annex-I)

2254

Case No.F-2891/SKT-2570	KNR-924	SSA: Bengaluru			
Name of the Power line: Regularisation of the existing 220KV LILO line from the existing 220KV Antharasanahalli-Peenya SC line (B1) to the existing 400/220KV SS at Nelamangala Taluk, Bengaluru Rural district.					
Length:	0.068	Kms			
Average SR value : 25,000 ohm cms		Type of BSNL cable: PIJF			
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
I NA	Nelamangala Telephone Exchange Cables				
1	Exge to Jakkasandra NA-NA1	IV less	than 430 V		

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FIT/TANUJ  
सहायक निरीक्षक-II/Asst. Director-II  
केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
विद्युत विभाग/Ministry of Power  
नयाँ दिल्ली/New Delhi-66

Case No.: KNK- 924

Name of the Power Line: 220 kV LILO line from existing 220 kV Antharasanahalli-Peenya SC Line [B1 line] to the existing 400/220 kV SS at Nelamangala in Nelamangala Taluk Bengaluru Rural District.

Map Scale : 1 cm = 500 m.  
Route Length : 0.068 km  
Soil Resistivity : 25000 Ohm-cm

S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
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SOUTH WESTERN RAILWAY		DATED: 13-09-2019			
Ref. No: SG/SWR/PTCC/F-2954/1949					
Affected Blocks & Telecom Circuits Details					
1	Chikkabanavar(BAW)- Golhalli (GHL)	OUT OF PARALLELISM		0	
2	Golhalli(GHL)-Dodbele(DBL)	OUT OF PARALLELISM		0	
3	Chikkabanavar(BAW)-Nelamangala(NMGA)	OUT OF PARALLELISM		0	
4	Nelamangala(NMGA)-Solur(SOLR)	0.068	0.0001	6113	01

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TANUJ  
Asst. Director-II  
Ministry of Power  
Government of India  
New Delhi

Tele : 23019745

Annex - III

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


B/46937/Sigs 7(b)/1780

16 Oct 2019

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

**PROPOSAL FOR REGULARISATION OF THE EXISTING 220KV LILO LINE FROM EXISTING 220KV ANTHARASANAHALI-PEENYA SC LINE [B1 LINE] TO THE EXISTING 400/220KV SS AT NELAMANGALA IN NELAMANGALA TALUK BENGALURU RURAL DISTRICT**

1. Ref your letter No CEE/SLDC/ PTCC/F-2954/-6976-84 dt 09 Aug 2019 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.



(A Rawat)  
Maj  
GSO 1 (Comn)  
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

Divisional Engineer Telegraph (PTCC)  
O/o GM (North); BSNL, QA & Inspection Circle,  
CTS Compound, Africa Avenue Road,  
Nefaji Nagar, New Delhi-110023

for information