

I/27028/2023



सत्यमेव जयते

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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ONE EARTH - ONE FAMILY - ONE FUTURE

CEA Case No. : KNK-1005		
PTCC approval for 220 kV DC LILO line on MC towers from existing 220 kV RTPS – Sedam DC line to the proposed 220/110 kV Ram Samudra SS (9.335 km)- regd.		
S. No	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3420/3297-3305	07.07.2022
(ii)	KPTCL: CEE/SLDC/PTCC/F-3420/9837-39	08.03.2023
(iii)	KPTCL: E-mail	15.03.2023
(iv)	BSNL: SR-PTCC/SKT 4128/3	05.12.2022
(v)	South Central Railway: SG.85/4/3/PTCC/SCR/2022-23/KS-5 RC	05.09.2022
(vi)	Defense: B/46937/Sigs 7(b)/2944	06.09.2022

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on communication circuits of BSNL with respect to details furnished vide above references (iv) have 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. Vide reference (v) above, South Central Railway has issued No Objection Certificate (NOC). Vide reference (vi) above, DG Signals, MoD has issued No Objection Certificate (NOC) (enclosed as Annexure-II).

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
230/110 kV Ram Samudra	140.1	20	0.09	446	248	NA	NA

As per the details submitted by BSNL vide reference (iv) above, no telephone exchanges are falling in the EPR zone of the proposed substations.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

Encl.: As above

**Chief Engineer**

I/27028/2023

**To,**

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle,1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
3.	Chief Engineer, Electricity	KPTCL, State Load Despatch Centre, #28, R.C. Cross Road, Bangalore - 560009	Copy for information

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ANNEXURE-I

<b>CEA Case No.: KNK-1005</b> <b>Name of the Power line:</b> 220 kV DC LILO line on MC towers from existing 220 kV RTPS – Sedam DC line to the proposed 220/110 kV Ram Samudra SS			<b>Map Scale</b> : 1 cm= 500 m <b>Total Length</b> : 9.335 km <b>S.R. Value</b> : 25000 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 4128/3    **Date:** 05.12.2022

I A	YADGIR TELEPHONE EXCHANGE CABLES				
1	Exchange to Railway Station Road (A-A1)	Out of parallelism			
2	Exchange to Railway Station Road to Railway Station (A-A1-A2)				
3	Exchange to Railway Station Road to Chittapur Road (A-A1-A3)				
4	Exchange to Railway Station Road to Chittapur Road to Vidhansoudha Road (A-A1-A3-A8)				
5	Exchange to Gunj Circle (A-A4)				
6	Exchange to Market Road (A-A5)				
7	Exchange to Bandehalli Road (A-A6)				
8	Exchange to Mudnal Road (A-A7)				
9	Exchange to PWD Road (A-A9)				

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

KNK-1005

B/46937/Sigs 7(b)/2944/

06 Sep 2022

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 DC LILO LINE ON MC  
 TOWERS FROM EXISTING 220KV RTPS-SEDAM DC LINE TO THE PROPOSED  
 220/110KV RAM SAMUDRA SS IN YADGIRI TALUK AND DISTRICT**

1. Refer your letter No CEE/SLDC/PTCC/F-3420/-3297-3305 dt 07 Jul 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.

*Samyad*  
 (PS Samyad)  
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 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

- for information

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

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 26/9/22

