सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

पावर कम्युनिकेशन डवलप्मेंट प्रभाग

Power Communication Development Division

No.:CEA/PCD/PTCC/KNK-897/532-33 Date: 30.04.2019

DET (PTCC),
QA & Inspection (T&D) Circle, BSNL
1 Floor, Raj Bhavan Exchange,
No. 26, Sardar Patel Road,
Guindy, Chennai – 600032

Subject: **Induced Voltage Calculation in respect of PTCC proposal for 220 kV DC LILO line on MC towers from existing 220 kV RTPS – Sedam D/C line to the proposed 220/110 kV Ram Samudra S/S in Yadgiri Taluk & District**

Reference: (i) BSNL letter no. SR-PTCC/SKT-2084/4 dated 19.06.2018
(ii) South Central Railway letter no. SG.85/4/3/PTCC/SCRKS201814 RC dated 23.04.2018
(iii) Defense letter no. B/46937/Sigs 7(b)/1072 dated 18.07.2018

Sir,

The instant PTCC proposal has been examined. Low frequency induction on telecom cables of BSNL with respect to details furnished vide above reference 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 under Single Line to Ground fault condition have been computed and are enclosed as Annex – I. The screening factors, as applicable, have been considered. Vide ref. (ii) above, South Central Railway have issued No Objection Certificate (NOC). Vide ref. (iii) above, Defense Authority have issued No Objection Certificate (NOC) (enclosed as Annex – II).

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

Encl.: As above

m/c

30/4

(Naresh Bhandari)
Chief Engineer

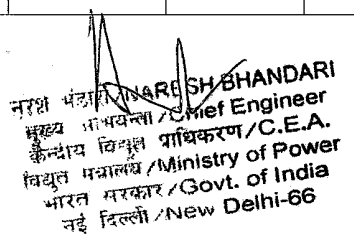
Copy to:
Chief Engineer Electricity, KPTCL, State Load Despatch Centre, No. 28, R.C. Cross Road, Bengaluru - 560009

एन आर पी सी परिसर, कटवारिया सराय, नई दिल्ली-110016 टेलीफैक्स: 011-26565214 ईमेल: nbnareshbhandari@gmail.com
NRPC Building, Katwaria Sarai, New Delhi-110016 Telefax: 011-26565214 Email: nbnareshbhandari@gmail.com Website: www.cea.nic.in

ANNEXURE – I

Case No.: KNK-897 **Name of the Power line**: 220 kV DC LILO line on MC towers from existing 220 kV RTPS – Sedam D/C line to the proposed 220/110 kV Ram Samudra S/S in Yadgiri Taluk & District	**Map Scale** : 1cm=500mts **Total Length** : 1.821 km **Soil Resistivity** : 25,000 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-2084/4 dated 19.06.2018				
A	**Ramsamudra ANRAX Exge UG cables**				
1	Exge to Market Ramsamudra A-A1	OUT OF PARALLELISM			



Annex - II

ple : 23019746

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

B/46937/Sigs 7(b)/1072 /

18 Jul 2018

Chief Engineer Elecricity,
State Load Despatch Centre,
#28, R.C. Cross Road
Bengaluru - 560009

PROPOSED 220 KV DC LILO LINE ON M/C TOWERS FROM EXISTING 220 KV DC RTPS – SEDAM LINE TO PROPOSED 220/66/11 KV RAM SAMUDRA SS IN YADGIR TQ & DISTRICT

1. Reference your letter CEE/SLDC/PTCC/F-2747/ 42 - 50 dt 03 Apr 2018.

2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet 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

Copy to :-

The Divisional Engineer Telegraph (PTCC - For information.
BSNL, Inspection Circle, Western Region,
3rd Floor, 'D' Wing, Telecom Complex,
Juhu Tara Road, Juhu Danda
Santracruz West, Mumbai – 400054

Received from KPTCL via email
on 29.4.2019
Prateek