



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

पावर कम्युनिकेशन डवलपमेंट प्रभाग

Power Communication Development Division

No./CEA/PCD/PTCC/TNG-70 / 603-04

Date : 23.05.2019

The Divisional Engineer Telecom (PTCC),  
QA & Inspection (T&D) circle, BSNL,  
1<sup>st</sup> 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 line by making LILO from 220 kV KTS-Shapurnagar SC line to 220 kV SS Waddekothapally

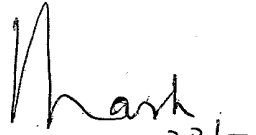
**Reference:** i) BSNL letter no. SR-PTCC/STS-2205/03 dated 18.12.2018  
ii) South Central Railway letter no. SG.85/4/3/PTCC/SCRTS201915 RC dated 28.02.2019  
iii) Defence letter no. B/46937/Sigs 7(b)/1264 dated 26.12.2018

Sir,  
The instant PTCC proposal has been examined. The low frequency induction on telecom cables of BSNL with respect to details furnished vide above references have been computed. The Soil Resistivity (SR) value has been taken as 20,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL under Single Line to Ground fault condition are enclosed at 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

  
(Naresh Bhandari)  
Chief Engineer

Copy to:  
Chief Engineer, Construction, TSTRANSCO, Vidyut Soudha, Hyderabad-500082



Tele : 23019746

TNG-70

Annex - 11  
Directorate General of Signals  
Signals 7  
General Staff Branch  
Integrated HQ of MoD (Army)  
DHQ PO, New Delhi - 110011

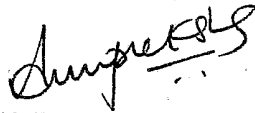
B/46937/Sigs 7(b)/1264/

26 Dec 2018

Chief Engineer,  
Construction  
Transmission Corporation of Telangana Ltd  
Vidyut Soudha.  
Hyderabad - 500 082

**ERECTION OF 220KV DC LINE (8.50KM) FOR MAKING LILO FROM EXISTING 220KV  
KTPS-SHAPURNAGAR SC LINE TO 220/132KV SS WADDEKOTHAPALLY IN  
MAHABUBABAD DISTRICT ON TURNKEY BASIS-PTCC PROPOSALS-REG.**

1. Ref your Lr. No. CPT-320/SE-Const/F.No. 220KV LILO line to WKpally&Bays/PTCC/D.No. 1079/18 dt 10 Sep 2018 (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

for information.