



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-52 /708 - 709

Date : 13.06.2019

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 400 kV TMDC line from proposed 400 kV SS Tukkapur to proposed 400 kV SS Chandulapur under Kaleshwaram Lift Irrigation Scheme

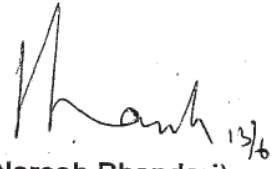
**Reference:** i) BSNL letter no. SR-PTCC/STS-2086/08 dated 03.04.2019  
ii) South Central Railway letter no. SG.85/4/3/PTCC/SCRTS201823 RC dated 30.04.2018  
iii) Defence letter no. B/46937/Sigs 7(b)/1071 dated 18.07.2018

Sir,  
The instant PTCC proposal has been examined. The low frequency induction on telecom cables of BSNL with respect to details furnished vide above reference 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

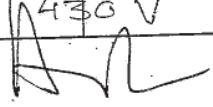
Copy to:

Chief Engineer, Lift Irrigation Schemes, TSTRANSCO, Vidyut Soudha, Hyderabad-500082

Annex-I

CEA Case No. : TNG-52

Case No. STS-2086		SSA: Sangareddy				
Name of the power line		PTCC Proposal for erection of 400KV TMDC line from proposed 400KV SS Tukkapur to proposed 400 KV SS Chandulapur Under Kaleshwaram Lift Irrigation Scheme.				
Length:	24.375 Kms	Map Scale :	1 cm = 500m			
SR value : 20,000 ohm cms		Type of BSNL telecom cable : PIJF				
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	
<b>I SIDDIPET RBM Exge UG cables</b>						
1	Exge to Ponnala(DP1)	}	IV	LESS	THAN	
2	Exge to Mittapally(DP2)					430 V
3	Exge to Narsapur(DP3)					
4	Exge to Thadkapalli(DP18)					
<b>II SIDDIPET MBM Exge UG cables</b>						
1	Exge to Narsapur X road(DP4)	}	IV	LESS	THAN	
2	Exge to Lingareddypally(DP5)					430 V
3	Exge to Burgupalli(DP6)					
4	Exge to Chinnagundavelli(DP7)					
<b>III DUDEEDA Exge UG cables</b>						
1	Exge to Kammampalli(DP8)	- IV LESS THAN 430V				
<b>IV CHINNAKODUR Exge UG cables</b>						
1	Exge to Chandapur(DP10)	}	IV	LESS	THAN	
2	Exge to Peddakodur(DP8)					430 V
3	Exge to Ramunipatla(DP9)					
<b>V THIMMAPUR Exge UG cables</b>						
1	Exge to Thornala(DP12)	}	IV	LESS	THAN	
2	Exge to Padmanabapally(DP11)					430 V
<b>VI MIRDODDI Exge UG cables</b>						
1	Exge to Andey(DP13)	- IV LESS THAN 430 V				
<b>VII THOGUTA Exge UG cables</b>						
1	Exge to Venkatraopet(DP14)	}	OUT	OF	PARALLELISM	
2	Exge to Chandapur(DP15)					
3	Exge to Yellareddipet(DP16)					- IV LESS THAN 430 V
<b>VIII IBRAHIMNAGAR Exge UG cables</b>						
1	Exge to Medipalli(DP17)	}	IV	LESS	THAN	
2	Exge to Choudaram(DP16)					430 V

  
 नरेश भंडारी / NARESH BHANDARI  
 मुख्य अभियंता / Chief Engineer  
 केंद्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi-66

Tele : 23019746

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

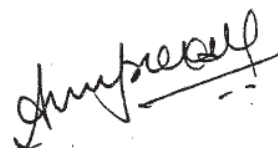
B/46937/Sigs 7(b)/1071 /

18 Jul 2018

Chief Engineer,  
Lift Irrigation Schemes,  
TSTRANSCO,  
Vidyut Soudha,  
Hyderabad - 500082

**ERECTION OF 400 KV TMDL LINE FROM PROPOSED 400/11 KV TUKKAPUR  
S/S TO PROPOSED 400/13.8/11 KV CHANDULAPUR SS TO UNDER  
KALESHWARAM LIFT IRRIGATION SCHEME**

1. Reference your letter LR.No.CE(LIS)/SE(LI)/DE3(LI)/AE/PTCC/400KV Tukkapur/  
D.No.08/2018 dt 06 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 :-**

Central Electricity Authority  
Power Communication Development Division  
NRPC Complex, 18-A, Shaheed Jeet Singh S Marg  
Katwaria Sarai, New Delhi – 110016

- For information.