



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-76/120-122

Date: 17.02.2020

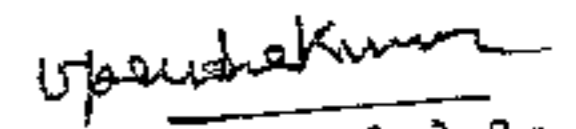
The Divisional Engineer (PTCC), Southern Zone,
Bharat Sanchar Nigam Limited (BSNL),
O/o DET (PTCC), Inspection Circle,
1st Floor, Raj Bavan Exchange No. 26,
Sardar Patel Road, Guindy, Chennai-600032

Subject: Induced voltage calculation in respect of 220 kV DC line from 400/220/132 kV SS Narsapur to 220/132/33 kV SS Meenajipet in Siddipet District.

Ref. : (i) TSTRANSCO Lr.No. TST/CE(Const)/SE(Const-I)/DE-II/F.PTCC-Meenajipet /D.No.1197/18 Dated: 26.11.2018
(ii) BSNL Ref. No. SR-PTCC/STS/2271/03 Dated: 20.12.2019
(iii) South Central Railway Ref. No. SG/85/4/3/PTCC/SCRTS201930 RTD Dated: 28.05.2019
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1376 Dated: 18.03.2019

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 Central Railway with respect to details furnished vide above references have been computed. The Soil Resistivity (SR) values have been taken as 20,000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & telecom circuits of South Central 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.


17.02.2020

(Upendra Kumar)
Chief Engineer, PCD

Copy to:

1. SSTE/TELE, Head Quarters Office, Signal & Telecomm Branch, Rail Nilayam, Secunderabad-500025.(Annex-II only)
2. Chief Engineer, Construction, TSTRANSCO, Vidyut Soudha, Hyderabad-500082.

MJC

RNG-76

Case No. SRPTCC/STS/2271		SSA : Medak				
Scale: 1 : 50000						
Name of Power line: 220 KV DC Line from 400/220/132 KV SS Narsapur to proposed 220/132/33 KV SS Meenajipet in Siddipet Dist - LF comments .						
Length: 23.206 KMs						
Average SR value : 20,000 Ω cm				Type of Cable: PIJF		
No	Name of telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	Safe Separation Distance
A	Hathnoora Exchange					
A1	Exchange to Busstand Pillar					
Outside IV consideration zone						
B	Shivampet Exchange					
B1	Exchange to Pillar 21					
IV less than 430V						
C	Shabashpally Exchange					
C1	Exchange to Potharam Gate Pillar					
C2	Exchange to Donthi Pillar					
C3	Exchange to Potharam Village Pillar					
} IV less than 430V						
D	Mulugu Exchange					
D1	Exchange to Wargal					
D3	Exchange to Laxmakkapally					
D4	Exchange to Mulugu Local					
} Out of Parallelism						
E	Kokkonda Exchange					
E1	Exchange to Kokkonda Local					
E2	Exchange to Singannaguda					
E3	Exchange to Kothur					
E4	Exchange to Narsapur					
E5	Exchange to Srirampur					
} Out of parallelism IV less than 430V } Out of parallelism						
F	Ontimamidi Exchange					
F1	Exchange to Tunki Bollaram					
F2	Exchange to Narsapur					
F3	Exchange to Achayyapally					
} Out of parallelism						
G	Toopra Exchange					
G1	Exchange to Progo					
G2	Exchange to Narsapur X Road					
G3	Exchange to Toopram (32 P)					
G4	Exchange to Tooporan (21,22,23 P)					
G5	Exchange to Tooporan (33 P)					
} IV less than 430V						
Nacharamgutta Exchange (Closed)		NA				

Tele : 23019746

Annex-III TNG-76

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

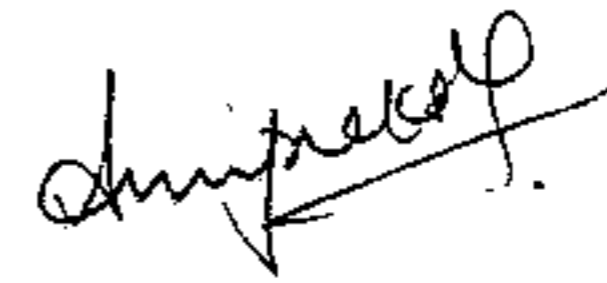
B/46937/Sigs 7(b)/1376

18 Mar 2019

The Chief Engineer, Construction
Transmission Corporation of Telangana Limited
TSTRANSCO
Vidyut Soudha,
Hyderabad - 500 082

**ERECTION OF 220KV DC LINE FROM 400/220/132KV SS NARSAPUR TO PROPOSED
220/132/33KV SS MEENAJIPET IN SIDDIPET DISTRICT-PTCC PROPOSALS-
FORWARDED-REG.**

1. Ref your letter No Lr. No. TST/CE(Const)/SE(Const-I)/DE-II/F.PTCC-Meenajipet/D.No.1197/18 dt 26 Nov 2018 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your above mentioned letter.
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.

