



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-51/ 322-324

Date: 19/03/2019

Divisional Engineer Telecom (PTCC),
QA & Inspection (T&D) circle, BSNL,
1st Floor, Raj Bhawan Tel. Exchange,
No.26, Sardar Patel Road,
Guindy, Chennai-32

Subject: PTCC Route Approval for 400kV D/C Tukkapur - Narsapur T/L under Kaleshwar Lift Irrigation Scheme

Reference:

- i) BSNL letter no. SR-PTCC/STS-2085/5 dated 14/12/18
- ii) South Central Railway letter no. SG85/4/3/PTCC/SCRTS201824 RTD dated 30/4/18
- iii) Defense letter no. B/46937/Sig 7(b)/1070 dated 18/7/18

Sir,

The low frequency induction on BSNL and South Central Railway telecommunication circuits as per details furnished vide above cited references (i) and (ii) respectively has been examined. The average soil resistivity value has been taken as 10000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL and South Central Railway telecommunication circuits under SLG (Single Line to Ground) fault condition are enclosed at Annex-I & II respectively. The screening factors as applicable have been considered. Vide ref. (iii) above, Defense Authority have issued No Objection Certificate (NOC), a copy is enclosed at Annex-III.

Taking above into consideration, kindly issue PTCC Route Approval.

Encl: As above

Yours faithfully,


(Naresh Bhandari)
Chief Engineer

19/3

Copy to:

- (i) SSTE, Head Quarter Office, S&T Branch, Rail Nilayam, Secunderabad – 500 025 (with Annexure II only)
- (ii) Chief Engineer (Lift Irrigation Scheme), TSTRANSCO, Vidyut Soudha, Hyderabad-520 082

MIC

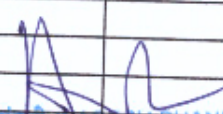
CEA Case No TNG-51

Case No. SRPTCC/STS/2085		SSA : Medak				
Scale: 1 : 50000						
Name of Power line: :- 400 KV TMDC Line from proposed 400/11 KV Tukkapur SS to 400/220/132 KV Narsapur SS under Kaleshwaram Lift Irrigation -LF comments .						
Length: 55.079 KMs		Type of Cable: PIJF				
Average SR value : 10,000 ohm-cm						
No	Name of telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	Safe Separation Distance
A	Toopran Exchange					
1	Exchange to A1 (P-21)	2	0.0402	11324	455	
2	Exchange to A2 - DP	3	0.057	11324	645	
3	Exchange to Pillar p-23	- IV less than 430V				
B	Nacharamgutta Exchange					
1	Exchange to B1 (Pillar 22)	- IV less than 430V				
2	Exchange to B2 DP	2.5	0.0685	9259	635	
3	Exchange to B5 Pillar	- IV less than 430V				
4	Exchange to B4 Pillar	- IV less than 430V				
	Narsapur SDCA					
A	Shivampet Exchange					
1	Exchange to A21 DP	- IV less than 430V				
2	Exchange to A22 DP	Out of Derivation				
B	Shabashpally Exchange					
1	Exchange to B2 (Dondy Pillar)	- IV less than 430V				
2	Exchange to B3 (Potteram Village Pillar)	- IV less than 430V				
3	Exchange to B4	- IV less than 430V				
	Thoguta Exchange					
1	Exchange to Z6- DP 53	2.5	0.0419	15,000	629	
2	Exchange to Z6-DP 54	2.5	0.0419	15,000	629	
3	Exchange to A5- DP a	- IV less than 430V				
4	Exchange to A5- DP b	- IV less than 430V				
5	Exchange to A5- DP c	- IV less than 430V				
6	Exchange to A5- DP d	- IV less than 430V				
7	Exchange to A5-DPe	- IV less than 430V				
8	Exchange to A6-DP101	- IV less than 430V				
9	Exchange to A6-DP102	- IV less than 430V				
10	Exchange to A6-DP103	- IV less than 430V				
11	Exchange to A6-DP104	- IV less than 430V				
12	Exchange to A6-DP105	- IV less than 430V				
13	Exchange to A6-DP106	- IV less than 430V				
14	Exchange to A6-DP107	- IV less than 430V				
15	Exchange to A6-DP108	- IV less than 430V				
16	Exchange to A6-DP109	- IV less than 430V				
17	Exchange to A6-DP110	- IV less than 430V				

Concler
② Toopran Exchange to A2, DP

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

18	Exchange to J-				
19	Exchange to K- DP 48	}	- IV less than 430V	-	
20	Exchange to K- DP 49				
21	Exchange to K- DP 50				
22	Exchange to K- DP 51				
23	Exchange to K- DP 52				
	Miridoddi Exchange				
24	Exchange to R- DP67	}	- IV less than 430V	-	
25	Exchange to R- DP68				
26	Exchange to R- DP69				
27	Exchange to R- DP70				
28	Exchange to R- DP71	}	- out of Parallelism		
29	Exchange to M- DP f				
30	Exchange to M- DP g				
31	Exchange to M- DP h				
32	Exchange to M- DP i	}	- out of Parallelism		
33	Exchange to M- DP j				
34	Exchange to B5- DP 86				
35	Exchange to B5- DP 87				
36	Exchange to B5- DP 88	}	- out of Parallelism		
37	Exchange to B5- DP 89				
38	Exchange to B5- DP 90				
40	Exchange to M- M14				
41	Exchange to Y-DP91		- IV less than 430V		
42	Exchange to Y-DP92	}			
43	Exchange to Y-DP93				
44	Exchange to Y-DP94				
45	Exchange to Y-DP95				
46	Exchange to Z-DP96	}	- IV less than 430V		
47	Exchange to Z-DP97				
48	Exchange to Z-DP98				
49	Exchange to Z-DP99				
50	Exchange to Z-DP100				
51	Exchange to Z1	}	- outside IV consideration zone		
52	Exchange to Z2				
53	Exchange to Z3				
54	Exchange to Z4				


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

ANNEX III TNG-51

Tele : 23019746

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

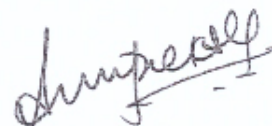
B/46937/Sigs 7(b)/1070 /

18 Jul 2018

Chief Engineer,
Lift Irrigation Schemes,
TSTRANSCO,
Vidyut Soudha,
Hyderabad - 5000082

**ERECTION OF 400 KV TMDC LINE FROM PROPOSED 400/11 KV TUKKAPUR
S/S TO 400/220/132 KV NARSAPUR SS UNDER KALESHWARAM LIFT
IRRIGATION SCHEME**

1. Reference your letter LR.No.CE(LIS)/SE(LI)/DE3(LI)/AE/PTCC/400KV Tukkapur/
D.No.07/2018 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.