

I/25466/2022



सत्यमेव जयते



**भारत सरकार**  
**Government of India**  
**विद्युत मंत्रालय**  
**Ministry of Power**  
**केन्द्रीय विद्युत प्राधिकरण**  
**Central Electricity Authority**  
**विद्युत संचार विकास प्रभाग**  
**Power Communication Development Division**

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<b>CEA Case No. : TNG-118</b>		
<b>PTCC approval for 400 kV QMDC line from proposed 400/11 kV Vattem S/S to proposed 400/11 kV Yedula S/S (30.363 km) - regd.</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	TSTRANSCO: CE/PRLIS/D1-A1/F.Vattem-Yedula Line/D.No.447 /2021	08.07.2021
(ii)	TSTRANSCO: Email	28.12.2022
(iii)	BSNL: SR-PTCC/STS 3395/08	20.09.2022
(iv)	South Central Railway: SG.85/4/3/PTCC/SCRTS202141 RC	31.12.2021
(v)	Defense: B/46937/Sigs 7(b)/2496	09.09.2021

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on communication circuits of BSNL with respect to details furnished vide above reference (iii) have been computed. The voltage likely to be induced on paralleling communication cables of BSNL under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. Vide reference (iv) above, South Central Railway has issued No Objection Certificate (NOC). Vide reference (v) above, DG Signals, MoD has issued No Objection Certificate (NOC) (enclosed as Annexure-II).

EPR Zones for proposed substations are mentioned below.

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current, I (kA)	Resistance of earthmat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
400/11 kV Vattem SS	280	50	0.0244	514.42	245.54	NIL	NIL
400/11 kV Yedula SS	285	50	0.0347	864.94	475.73	NIL	NIL

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

Encl.: As above

**Chief Engineer**

**To,**

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	Chief Engineer, PRLIS	TSTRANSCO, Vidyt Soudha, Hyderabad - 500082	Copy for information

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ANNEXURE-I

CEA Case No.: TNG-118		Map Scale : 1 cm= 500 m			
Name of the Power line: 400 kV QMDC line from proposed 400/11 kV Vattem S/S to proposed 400/11 kV Yedula S/S		Total Length : 30.363 km			
		S.R. Value : 15000 Ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
<b>BSNL Letter No: SR-PTCC/STS 3395/08 Date: 20.09.2022</b>					
<b>I NKL</b>	<b>NAGARKURNOOL EXCHANGE UG CABLES</b>				
1	Exge to Shankar Wines (NKL-P1)	1.2	0.0017	34117	58
2	Exge to Mutton Market (NKL-P2)	1.0	0.0011	31818	35
3	Exge to Ramalayam (NKL-P3)	1.5	0.0011	35454	39
4	Exge to Post Office (NKL-P4)	0.4	0.0003	30000	9
5	Exge to Agri Godown (NKL-P5)	0.5	0.0003	33330	10
6	Exge to Court to MRO Office (NKL-P6)	0.95	0.0008	31250	25
7	Exge to Court to Ravi Talkies (NKL-P7)	0.75	0.0006	33410	20
8	Exge to Santa Bazaar (NKL-P8)	1.5	0.0011	32727	36
9	Exge to Police Quarters (NKL-P9)	2.1	0.0017	31765	54
10	Exge to Housing Board (NKL-P10)	0.75	0.0010	35410	35
11	Exge to OM Nagar (NKL-P11)	1.1	0.0014	35714	50
12	Exge to DE Office (NKL-P12)	1.2	0.0009	38880	35
13	Exge to Yadaiah (NKL-P13)	0.7	0.0009	34400	31
<b>II PL</b>	<b>PALEM EXCHANGE UG CABLES</b>				
1	Exge to UBI Pillar (PL-PL1)	0.3	0.0005	41360	21
2	Exge to Gandhi Statue (PL-PL2)	0.2	0.0005	38440	19
3	Exge to RARS Pillar (PL-PL3)	0.2	0.0007	39340	28

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Annexure-II

Tele : 23019746

TNG-118

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

B/46937/Sigs 7(b)/2496

-09  
Sep 2021

Chief Engineer,  
PRLIS, TSTRANSCO  
Transmission Corporation of Telangana State Limited  
Vidyut Soudha,  
Hyderabad - 500 082

ERECTION OF 400KV QUAD MOOSE DC LINE FROM PROPOSED 400/11KV  
VATTEM SS TO PROPOSED 400/11KV YEDULA SS-30.363KM - PTCC  
PROPOSALS-FORWARDED-REG.

1. Refer your letter No Lr. No. CE/PRLIS/D1-A1/F.Vattem-Yedula line/D.No.447/2021 dt 08 Jul 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per 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)  
Lt Col  
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

The DET(PTCC), Northern Zone  
O/o PGM (North), QA & Inspection Circle,  
D-Tax Building, Eastern Court, Janpath  
New Delhi-110001

