

I/25763/2023



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

CEA Case No. : TNG-115		
PTCC approval for 400 kV QMDC line from 400/220 kV Dindi S/S (existing) to proposed 400/11 kV Yedula S/S (55.397 km) - regd.		
S. No	Reference No.	Dated
(i)	TSTRANSCO: CE/PRLIS/D1-A1/F.Dindi-Yedula Line/D.No.406 /2021	10.06.2021
(ii)	TSTRANSCO: Email	28.12.2022
(iii)	BSNL: SR-PTCC/STS 3329/07	27.09.2022
(iv)	South Central Railway: SG.85/4/3/PTCC/SCRTS202140 RC	31.12.2021
(v)	Defense: B/46937/Sigs 7(b)/2467	04.08.2021

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 Yedula SS	285	50	0.0347	864.94	475.73	NIL	NIL

As per the details submitted by BSNL, there are no telecom exchanges falling within the EPR zone of the proposed substation.

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, Viduyut Soudha, Hyderabad - 500082	Copy for information

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ANNEXURE-I

CEA Case No.: TNG-115		Map Scale : 1 cm= 500 m			
Name of the Power line: 400 kV QMDC line from 400/220 kV Dindi S/S (existing) to proposed 400/11 kV Yedula S/S		Total Length : 55.397 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.
BSNL Letter No: SR-PTCC/STS 3329/07 Date: 27.09.2022					
IT	TELKAPALY EXCHANGE UG CABLES				
1	Exge to Veterinary Hospital (T-P1)	0.35	0.0004	15750	6
2	Exge to Sangameshwara Bank (T-P2)	1.05	0.0014	12300	17
3	Exge to Market (T-P3)	Out of parallelism			
4	Exge to Rakonda (T-P4)	1.4	0.0019	25789	49
5	Exge to Gouraddy Pally (T-P5)	2.9	0.0019	20526	39
6	Exge to Hospital (T-P6)	0.7	0.0016	18553	30
7	Exge to Indian Gas (T-P7)	0.5	0.0008	24548	20
II V	VANGOOR EXCHANGE UG CABLES (KALWAKURTHY SDCA)				
1	Exge to Pillar No. 01	0.1	0.0001	25120	3
2	Exge to Pillar No. 02	0.45	0.0026	20039	52
3	Exge to Manchinonipally Village (V – M)	0.75	0.0283	19893	563
4	Exge to Polkampally Village (V – P)	6.45	0.0762	17297	1318
5	Exge to Jupally Village (V – J)	1.2	0.0016	19912	32

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Annexure-II

Tele : 23019746

TNG-115

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


B/46937/Sigs 7(b)/2467

04 Aug 2021

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

ERECTION OF 400KV QUAD MOOSE DC LINE FROM 400/220KV DINDI SS TO
PROPOSED 400/11KV YEDULA LISS-55.397KM PTCC PROPOSALS-
FORWARDED-REG.

1. Refer your letter No Lr. No. CE/PRLIS/D1-A1/F.Dindi-Yedula line/D.No.406/2021 dt 10 Jun 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

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

for information

