

I/25883/2023



सत्यमेव जयते



ONE EARTH - ONE FAMILY - ONE FUTURE

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-135		
PTCC approval for 400 kV QMDC line from 400/11 kV Chandlapur S/S (existing) to proposed 400/11 kV Yellaipally S/S under Kaleshwaram Lift Irrigation Scheme (9.548 km) - regd.		
S. No	Reference No.	Dated
(i)	TSTRANSCO: CE(LIS)/SE(LI)/DE4/ADE1/AE2/PTCC/Yellaipally/D. No. 228	21.07.2022
(ii)	BSNL: SR-PTCC/STS 4240/04	07.10.2022
(iii)	South Central Railway: SG.85/4/3/PTCC/SCR/2022-23/TS-23 RC received on 14.12.2022	05.09.2022
(iv)	Defense: B/46937/Sigs 7(b)/2976	10.10.2022

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on communication circuits of BSNL with respect to details furnished vide above reference (ii) 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 (iii) above, South Central Railway has issued No Objection Certificate (NOC). Vide reference (iv) above, DG Signals, MoD has issued No Objection Certificate (NOC) (enclosed as Annexure-II).

EPR Zones for proposed substation is 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 Yellaipally	176.65	40.798	0.215	3426.88	2207.22	44.71	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

For 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, Lift Irrigation Schemes	TSTRANSCO, Vidyut Soudha, Hyderabad - 500082	Copy for information

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ANNEXURE-I

CEA Case No.: TNG-135		Map Scale : 1 cm= 500 m			
Name of the Power line: 400 kV QMDC line from 400/11 kV Chandlapur S/S (existing) to proposed 400/11 kV Yellaipally S/S under Kaleshwaram Lift Irrigation Scheme		Total Length : 9.548 km			
		S.R. Value : 10000 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 4240/04 Date: 07.10.2022					
I A	SIDDIPET MBM EXCHANGE UG CABLES				
1	Exge to Ayyappa Temple (A-A1)	Out of parallelism			
2	Exge to Yellamma Temple (A-A2)				
3	Exge to Nasarpura (A-A3)				
4	Exge to Eagle Statue (A-A4)				
5	Exge to Old Bus Stand (A-A5)				
6	Exge to Mustabad X-road (A-A6)				
7	Exge to Integrated Market (A-A7)				
8	Exge to Geethabhavan (A-A8)				
9	Exge to Narsapur X-road (A-A9)				
10	Exge to Borra Hanuman Temple (A-A10)				
II B	CHINNAKODUR EXCHANGE UG CABLES				
1	Exge to Mohan Rao House (B-B1)	Out of parallelism			

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ANNEXURE-II

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

TNG-135

B/46937/Sigs 7(b)/2976/

10 Oct 2022

Chief Engineer, Lift Irrigation Schemes
TSTRANSCO
Transmission Corporation of Telangana Limited
Vidyut Soudha, Hyderabad
Telangana - 500 082

**DESIGN, ENGINEERING, SUPPLY, ERECTION, TESTING AND COMMISSIONING
OF (I) 400/11KV YELLAIPALLY SUBSTATION (INCLUDING SUPPLY OF
6X160MVA+2X25MVA POWER TRANSFORMERS) (II) 400KV QMDC LINE FROM
EXISTING 400/13.8/11KV CHANDULAPUR SS TO PROPOSED 400/11KV
YELLAIPALLY SUBSTATION-9.548KM (III) 4NOS. 400KV BAY EXTENSIONS AT
EXISTING 400/13.8/11KV CHANDULAPUR SUBSTATION IN MEDAK (OLD)
DISTRICT ON TURNKEY BASIS UNDER ADDITIONAL 1 TMC WORKS OF
KALESHWARAM LIFT IRRIGATION PROJECT-PTCC PROPOSALS**

1. Refer your Lr. No. CE(LIS)/SE(LI)/DE-4/ADE1/AE2/PTCC/Yellaipally/D.No. 228/2022 dt 21 Jul 2022 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheets received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

(Signature)
(PS Samya)
Col
GSO 1 (Comn)
for ADG T

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
Bharat Sanchar Nigam Limited
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

(Signature)

(Signature)
20/10

