

I/27902/2023



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



ONE EARTH - ONE FAMILY - ONE FUTURE

CEA Case No. : TNG-126		
PTCC approval for 400 kV QMDC line from proposed Yadadri Thermal Power Plant switchyard to proposed 400/220/132 kV SS Choutuppall (92.379 km) - regd.		
S. No	Reference No.	Dated
(i)	TSTRANSCO: CE/400kV/SE-II/400kV/D1-A1/F.Chotuppall-YTPP /D.no.866/21	28.09.2021
(ii)	TSTRANSCO: Email	17.05.2023
(iii)	BSNL: SR-PTCC/STS 3653/06	25.03.2023
(iv)	South Central Railway: SG.85/4/3/PTCC/SCRTS202145 RTD	24.01.2022
(v)	Defense: B/46937/Sigs 7(b)/2645	24.12.2021

The PTCC proposal submitted vide reference (i) & (ii) has been examined. Vide reference (iii) above, BSNL has informed that there are no telecom lines/cables or assets existing within the vicinity of the proposed transmission line. The LF induction on communication circuits of South Central Railway with respect to details furnished vide above reference (iv) have been computed. The voltage likely to be induced on paralleling communication cables of South Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. 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 kV Yadadri Thermal Power Plant Switchyard	604.4	36600	0.166	7935	5045	NA	NA
400/220/132 kV Choutuppall Substation	479.86	20380	0.131	2499	1491	NA	NA

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

I/27902/2023

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	General Manager (S&T)	South Central Railway, O/o PCSTE, 7 th floor, Rail Nilayam, Secunderabad - 500025	
3.	Chief Engineer, 400 kV	TSTRANSCO, Vidyut Soudha, Hyderabad – 500082	Copy for information

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ANNEXURE-I

CEA Case No.: TNG-126		Map Scale : 1 cm= 500 m			
Name of the Power line: 400 kV QMDC line from proposed Yadadri Thermal Power Plant switchyard to proposed 400/220/132 kV SS Choutuppal		Total Length : 92.379 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.
SOUTH CENTRAL RAILWAY Letter No: SG.85/4/3/PTCC/SCRTS202145 RTD Date: 24.01.2022					
1	Kondrapol (KDGL) – Vishnupuram (VNUP)	Out of parallelism			0
2	Vishnupuram (VNUP) – Pondugala (PDGL)	0.25	0.00002	37698	1

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ANNEXURE-II

Tele : 23019746

TNG-1246
 Directorate General of Signals
 Signals - 7
 General Staff Branch
 Integrated HQ of MoD, (Army)
 DHQ PO, New Delhi - 110011

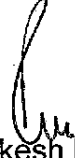
B/46937/Sigs 7(b)/2645

21 Dec 2021

Chief Engineer/400KV
 TSTRANSCO
 Transmission Corporation of Telangana State Limited
 Vidyut Soudha, Hyderabad-500 082

**YADADRI THERMAL POWER EVACUATION SCHEME (5X800MW)-ERECTION
 OF 400KV QMDC LINE FROM YADADRI TPP, SWITCHYARD, TSGENCO TO
 400/220/132KV CHOUTUPPAL SS (92.379KMS APPROX)-PTCC PROPOSAL**

1. Refer your letter No Lr. No. CE/400kV/SE-II/400kV/D/1-A1/F.Choutuppall-YTPP/D.No.866/21 dt 28 Sep 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheets received vide your above mentioned letter.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.


 (Rakesh Kumar)
 Lt Col
 GSO 1 (Comn)
 for SO-in-C

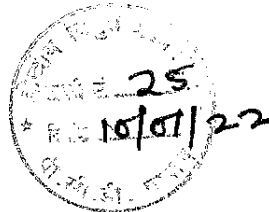
Enclosures : (As above)

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



of 20/11/21
 mrc/A