File No.CEA-PS-17-11(14)/34/2023-PCD Division







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-125 PTCC approval for 400 kV QMDC line from Yadadri Thermal Power Plant (Damarcherla) SS to existing 400/220 kV SS Dindi (103.512 km) - regd.				
(i)	TSTRANSCO: CE/400kV/SE-II/400kV/D1-A2/e-EHVT-04/19-20 /D.no.863/21	27.09.2021		
(ii)	TSTRANSCO: Email	17.05.2023		
(iii)	BSNL: SR-PTCC/STS 3652/05	25.03.2023		
(iv)	South Central Railway: SG.85/4/3/PTCC/SCRTS202148 RTD	24.01.2022		
(v)	Defense: B/46937/Sigs 7(b)/2654	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).

Name of the	Half	Fault	Resistance	d (mts)	d (mts)	d (mts)	d (mts)
proposed SS	Diagonal	Current, I	of earthmat,	at 430 V	at 650	at 7 kV	at 10
	Distance,	(kA)	R (Ohms)		V		kV
	D/2 (mts)						
400 kV	604.4	36600	0.166	7935	5045	NA	NA
Yadadri							
Thermal							
Power Plant							
Switchyard							

EPR Zones for proposed substations are mentioned below.

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

File No.CEA-PS-17-11(14)/34/2023-PCD Division

I/27901/2023 To,

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

ANNEXURE-I

Name of	ise No.: TNG-125 The Power line : 400 kV QMDC line from Yadadri Thamarcherla) SS to existing 400/220 kV SS Dindi	hermal Power	Total Length	: 1 cm= 500 r : 103.512 km 10000 Ohm-cr	
S.No.	Telecom. Details	Length of Parallelis m in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
S	OUTH CENTRAL RAILWAY Letter No: SG.8	85/4/3/PTCC/S	CRTS202148 R	TD Date: 24.0	1.2022
1	Kondrapol (KDGL) – Vishnupuram (VNUP)	Out of parallelism		0	
2	Vishnupuram (VNUP) – Pondugala (PDGL)	0.3	0.00003	37690	1

Annexure-II

Tele : 23019746

TNG-125 Directorate General of Signals

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

B/46937/Sigs 7(b)/2654

Щ Dec 2021

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

YADADRI THERMAL POWER EVACUATION SCHEME (5X800MW)-ERECTION OF 400KV QMDC LINE FROM YADADRI TPP SWITCHYARD TO 400/220KV DINDI SS (103.512KMS)-PTCC PROPOSAL

1. Refer your letter No Lr. No. CE/400kV/SE-II/400kV/D/1-A2/e-EHVT-04/19-20/D.No.863/21 dt 27 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

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

