

I/28259/2023



**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-139		
PTCC approval for 400 kV D/C line from 400/11 kV Vattem LISS to proposed 400/11 kV Uddandapur LISS (34.142 km) - regd.		
S. No	Reference No.	Dated
(i)	TSTRANSCO: CE/PRLIS/D1-A3/F.Vattem-Uddandapur Line/D. no.502/2022	14.10.2022
(ii)	TSTRANSCO: Email	27.05.2023
(iii)	BSNL: SR-PTCC/STS 4298/06	25.03.2023
(iv)	South Central Railway: SG.85/4/3/PTCC/SCR/2022-23/TS-29RTD	29.11.2022
(v)	Defense: B/46937/Sigs 7(b)/3077	27.12.2022

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
400/11 kV Vattem SS	280	50	0.0244	514.42	245.54	NIL	NIL
400/11 kV Uddandapur SS	235.8	63	0.201	6708.23	4357.94	190.76	62.79

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	
----	---	---	--

I/28259/2023

2.	General Manager (S&T)	South Central Railway, O/o PCSTE, 7 <sup>th</sup> floor, Rail Nilayam, Secunderabad - 500025	
3.	Chief Engineer, PRLIS	TSTRANSCO, Vidyut Soudha, Hyderabad – 500082	Copy for information

I/28259/2023

ANNEXURE-I

CEA Case No.: TNG-139		Map Scale : 1 cm= 500 m			
Name of the Power line: 400 kV D/C line from 400/11 kV Vattam LISS to proposed 400/11 kV Uddandapur LISS		Total Length : 34.142 km			
		S.R. Value : 20000 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>SOUTH CENTRAL RAILWAY Letter No: SG.85/4/3/PTCC/SCR/2022-23/TS-29RTD Date: 29.11.2022</b>					
1	Gollapalli (GLY) – Jadcherla (JCL)	4.15	0.0027	29880	81
2	Jadcherla (JCL) – Divitipalli (DTP)	5.4	0.0051	29020	148
3	Divitipalli (DTP) – Mahbubnagar (MBNR)	2.5	0.0009	34755	31

TNG-139


B/46937/Sigs 7(b)/30771

27 Dec 2022

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

**ERECTION OF 400KV QUAD MOOSE DC LINE FROM 400/11KV VATTEM LISS TO PROPOSED 400/11KV UDDANDAPUR LISS-34.142KM-PTCC PROPOSAL-REG.**

1. Refer your letter No Lr. No. CE/PRLIS/D1-A3/F.Vattem-Uddandapur Line/D.No. 502/2022 dt 14 Oct 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.

  
(SK Sharma)  
Lt Col  
GSO 1 (Comm)  
for Offg 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

