

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

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CEA Case No.: AND-712					
Induced Voltage (IV) calculation in respect of PTCC proposal for LILO of 220kV Ongole					
- Racheralapadu D/C line at 220kV Kandukur SS (3.5 km)- regd.					
S. No	Reference No.	Dated			
(i)	TCAPL: CE/Zone/VJA/EE/Const/DEE-2/AEE/F.220kV Ongole-	22.05.2021			
	R,padu/D.No.147				
(ii)	BSNL: SR-PTCC/SAP5864/7	30.05.2024			
(iii)	South Central Railway: SG.85/4/3/PTCC/SCRAP202123 RTD	24.03.2022			
(iv)	Defense: B/46937/Sigs 7(b)/2457	04.08.2021			

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on Block and Telecom circuits of South Central Railway with respect to details furnished vide above reference (iii) has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of South Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. DET, PTCC (Bangalore) has issued NOC vide reference (ii) above.

DG Signals, MoD has issued No Objection Certificate (NOC) vide reference (iv) (attached as Annexure –II).

All substations are existing therefore, EPR calculations is not warranted.

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, 2 <sup>nd</sup> Floor, Sanchar Complex, WMS Compound, Jayanagar 5 <sup>th</sup> Block, 9 <sup>th</sup> Main, 47 <sup>th</sup> Cross, Bangalore-560041	
2.	GM S&T	Office of Principal Chief Signal & Telecom Engineer, 7 <sup>th</sup>	
		Floor, Rail Nilayam, Secunderabad-500025	
3.	Chief Engineer	APTransco, Vidyut Soudha, Gunadala, Vijayawada-	For
	(Zone)	520004,Andhra Pradesh	Information

# **ANNEXURE-I**

Map Scale : 1 cm = 500 m**CEA Case No.:** AND-712 **Total Length:** 3.5 km Name of the Power line: LILO of 220kV Ongole - Racheralapadu D/C **S.R. Value** : 25000 Ohm-cm line at 220kV Kandukur SS Length of **Effective** I.VMutual **Parallelis Fault Coupling** current m in S.No. Telecom. Details in Km. in Ohms. in Amps. Volts.

SCR Letter No:SG.85/4/3/PTCC/SCRAP202123 RTD Dated 24.03.2022				
1.	Tettu (TTU) – Ulavapadu (UPD)	Out of Parallelism		
2.	Ulavapadu (UPD) – Singarayakonda (SKM)	Outside IV consideration zone		
3.	Singarayakonda (SKM) – Tanguturu (TNR)	Outside IV consideration zone		

## Annexure II

Tele: 23019746

AND-712

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

B/46937/Sigs 7(b)/2457

ey Aug 2021

Chief Engineer, Zone Transmission Corporation of Andhra Pradesh Limited APTRANSCO Gunadala, Vijayawada-520004

# ERECTION OF 220KV DC LINE (3.500KM) FOR MAKING LILO OF 220KV ONGOLE-RACHERLAPADU LINE TO THE 220/132KV KANDUKUR SS IN PRAKASAM DISTRICT-PTCC PROPOSAL- FORWARDED

Refer your Ltd letter No Lr. No. CE/Zone/VJA/EE/Const/DEE-2/AEE/F.220KV Ongole-R.padu/D.No.147/21 dt 22 May 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 Shaneed Jeet Singh Marg
Katwaria Sarai, New Delhi – 110016

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

for information

