

I/33441/2024



सत्यमेव जयते

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

CEA Case No. : AND-728		
Induced Voltage (IV) calculation in respect of PTCC proposal for LILO of 220 kV VTS-Tallapalli-I Circuit at 220/132/33 kV SS Rentachintala (1.342 km) - regd.		
S. No	Reference No.	Dated
(i)	TCAPL: CE/Projects/SE220&132kV/EE-2/DEE 2/F.27PTCC/D.No.135/23	18.05.2023
(ii)	BSNL: SR-PTCC/SAP5325/6	21.10.2023
(iii)	South Central Railway:SG.85/4/3/PTCC/SCR/2023-24/AP-9 RTD	21.07.2023
(iv)	Defense: B/46937/Sigs 7(b)/3379	06.09.2023

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on Block and Telecom circuits of BSNL and South Central Railway with respect to details furnished vide above reference (ii) and (iii) respectively has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of BSNL and Southern Railway under Single Line to Ground fault condition are enclosed at Annexure-I and Annexure-II respectively.

DG Signals, MoD have issued No Objection Certificate (NOC) vide reference (iv) (enclosed as Annexure III)

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 nd Floor, Sanchar Complex, WMS Compound, Jayanagar 5 th Block, 9 th Main, 47 th Cross, Bangalore-560041
2.	Chief Engineer Projects	APTransco, Vidyut Soudha, Gunadala, Vijayawada-520004, Andhra Pradesh
3.	General Manager/Tele	Office of PCSTE, 7 th Floor, Rail Nilayam, Secunderabad, 500025

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ANNEXURE-I

CEA Case No.: AND-728 Name of the Power line: LILO of 220 kV VTS-Tallapalli-I Circuit at 220/132/33 kV SS Rentachintala- regd			Map Scale : 1 cm= 500 m Total Length : 1.342 km S.R. Value : 25000 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/SAP5325/6 Date: 21.10.2023					
1	Rentachintala Exge to autostand 21 pillar				Out of parallelism
2	Rentachintala Exge to opp Police Station 22 pillar				Out of parallelism
3	Rentachintala Exge to sc school opp 23 pillar				Out of parallelism
4	Rentachintala Exge to P21 Bodrai centre RCT				Out of parallelism
5	Rentachintala Exge to P21 CGG Bank RCT				Out of parallelism
6	Rentachintala Exge to P22 SBI Bank RCT				Out of parallelism
7	Rentachintala Exge to P22 Andhra Bank RCT				Out of parallelism

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ANNEXURE-II

CEA Case No.: AND-728 Name of the Power line: LILO of 220 kV VTS-Tallapalli-I Circuit at 220/132/33 kV SS Rentachintala- regd			Map Scale : 1 cm= 500 m Total Length : 1.342 km S.R. Value : 25000 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/SCR/2023-24/AP-9 RTD Date: 21.07.2023					
1	Nadikudi Jn(NDKD)-Gurujala-Rentachintala-Macherla(MCLA)	Out of parallelism			

B/46937/Sigs 7(b)/3379

06 Sep 2023

Chief Engineer, Projects
APTransco
Transmission Corporation of Andhra Pradesh Limited
Vidyut Soudha, Gunadala
Vijayawada– 520004, Andhra Pradesh

**APTRANSCO-PROJECTS-SUPPLY, ERECTION, TESTING & COMMISSIONING
OF 220KV DC LINE BY MAKING LILO OF 220KV VTS-TALLAPALLI-I CIRCUIT
TO 220/132/33KV SS RENTACHINTALA AND 2NOS. 220KV BAYS AT 220KV SS
RENTACHINTALA IN GUNTUR DISTRICT ON TURNKEY BASIS-PTCC
PROPOSAL**

1. Refer your letter No Lr. No. CE/ProjectS/SE220&132kV/EE-2/DEE-2/F.27 PTCC/D.No.135/23 dt 18 May 2023 (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.



(SP Choyal)

Lieutenant Colonel

General Staff Officer Grade 1 (Communication)

for Additional Director General (Telecommunication)

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

Central Electricity Authority

PCD Division

Diary No. 82

Date: 21-09-23

Sh. Anshu (DD)
29/9

Please examine & pu. 31/9
03/10.

Sh. Prateek