

I/34234/2024



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. : TN-742		
Induced Voltage (IV) calculation for PTCC proposal of 230 kV S/C line from existing Shoolagiri 400/230 kV SS to 230/110 kV Uddanapally SS(2.37 km)- regd.		
S. No	Reference No.	Dated
(i)	TANTRANSCO: 09733/SE/TR-I/EE/TSM/AEE/F.PTCC	14.12.2023
(ii)	TANTRANSCO: CE/TR/SE/TR-I/EE/TSM/AEE1/F.PTCC/D.No. 19	15.02.2024
(iii)	TANTRANSCO: Provisional RAC -Undertaking	15.02.2024
(iv)	BSNL: SR-PTCC/STN 5429/07	16.02.2024
(v)	Southern Railway: W.384/3/2/1233	21.12.2023

The PTCC proposal submitted vide references (i) has been examined. DET,(PTCC,) SZ, BSNL (Chennai) vide reference (iv) and Southern Railways vide reference (v) have issued No Objection Certificate (NOC).

The Telecommunication details from South Western Railway have not been received. However, the LF induction on Block and Telecom circuits of South Western Railway has been computed after considering the railway lines lying within the 8 km boundary of proposed transmission line on Topo map submitted vide above reference (i). The voltage likely to be induced on paralleling Block and Telecom circuits of South Western Railway under Single Line to Ground fault condition are enclosed at Annexure-I. Screening factors as applicable have been considered.

Telecommunication details from DG Signals, MoD are awaited however, vide reference (ii) and (iii) above, TANTRANSCO has shown urgency for charging the line for power evacuation and has requested for provisional PTCC clearance. TANTRANSCO has submitted an undertaking that in case of any damage to telecom assets/ personnel of Defense and Railway due to the charging of this line, TANTRANSCO shall take all responsibility for its remediation.

Taking above into consideration, necessary action for issuance of provisional PTCC route approval may be taken under intimation to this office. LF induction on telecommunication circuits of Defense, will be communicated after the receipt of details from DG Signals, MoD.

Encl.: As above

Chief Engineer

I/34234/2024

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	Superintending Engineer/Transmission-I	TANTRANSCO, 5th floor, TANTRANSCO HQ, 144, Anna Salai, Chennai - 600002	
3.	PCSTE	South Western Railway, Rail Soudha, Gadag Road, Hubballi-580020	
4.	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105	With a request to provide details of Telecom assets/ NOC at the earliest for issuance of final RAC.

I/34234/2024

ANNEXURE-I

CEA Case No.: TN-742 Name of the Power line: 230KV SC line from existing 400/230KV Shoolagiri SS to existing 230/110KV Uddanapally SS			Map Scale : 1 cm= 500 m Total Length : 2.37 km S.R. Value : 25000 Ohm-cm		
South Western Railway					
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
1	KMLM-PRNT	1.5	0.002	23782	45
2	PRNT-RYC	0.79	0.0005	25999	14