



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-740		
Induced Voltage (IV) calculation in respect of PTCC proposal for 400 kV M/C transmission line by making LILO of existing Pugalur-Kalivanthapattu 400KV feeder I & II at proposed Ariyalur 765/400KV SS(3.661 km)- regd.		
S. No	Reference No.	Dated
(i)	TANTRANSCO: SE/TR-I/EE/TSM/AEE/F.PTCC/D.90	13.12.2023
(ii)	TANTRANSCO: CE/TR/SE/TR-I/EE/TSM/AEE1/F.PTCC/D.No. 11	29.01.2024
(iii)	TANTRANSCO: Provisional RAC -Undertaking	12.01.2024
(iv)	BSNL: SR-PTCC/STN 5428/05	23.01.2024
(v)	Southern Railway: W.384/3/2/1232	21.12.2023

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

EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance , D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
765/400 kV Ariyalur SS	344	30	0.099	2032	1228	NA	NA

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 due to the charging of this line, TANTRANSCO shall bear the cost for remediation of the same.

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/33434/2024

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