



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 Division

CEA Case No. : TN-771		
Induced Voltage calculation for PTCC proposal of 400 kV D/C line on M/C tower from 400 kV Manali GIS S/s up to Loc No. AP21 at Manjampakkam Gantry [Length- 4.78 km]- Regd.		
S. No	Reference No.	Dated
(i)	TANTRANSCO: SE/TR-1/EE/TSM/AEE/F.PTCC/D.84	26.11.2024
(ii)	TANTRANSCO: CE/TR/SE/TR-1/EE/TSM/AEE1/F.PTCC/D.22	04.03.2025
(iii)	TANTRANSCO: e-Mail	11.03.2025
(iv)	BSNL: DGM(CP&DCM)/PTCC/TNTRANSCO.Corres/2024-25/	06.12.2024
(v)	Southern Railway: W.384/3/2/1239	16.12.2024
(vi)	Defense: B/46937/Sigs 7(b)/4304	13.02.2025

TANTRANSCO has submitted PTCC proposal vide reference (i). Block & Telecom details for subject cited transmission line has been received from Southern Railway & Defense vide above reference (v) & (vi) respectively. AGM-Cable Planning, BSNL Chennai vide above reference (iv) has mentioned they will need some more time for submission of BSNL's Block & Telecom details.

Vide above reference (ii), TANTRANSCO has shown urgency for charging of the line and requested for provisional PTCC approval. Considering the urgency of the matter, the LF induction on Block and Telecom circuits of Southern Railway with respect to details furnished vide above reference (v) has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of Southern Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable has been considered. DG Signals, MoD has issued No Objection Certificate (NOC) vide reference (vi).

Vide above reference (iii), TANTRANSCO has mentioned that inadvertently they have written status of 400 kV Manali GIS as new. However, 400 kV Manali GIS is existing in nature and hence, EPR zone computation is not done. Further, it is to be informed that no other substation whether existing or proposed is falling within the scope of proposed route alignment for which the PTCC proposal has been submitted.

Taking above into consideration, necessary action regarding issuance of provisional PTCC approval for the subject cited transmission line may be taken under intimation to this office.

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	
2.	GM (S&T)	HQ Office, S&T Branch Southern Railway, Chennai	
3.	Chief Engineer (Transmission-I)	5 th Floor, TANTRANSCO HQ 144, Anna Salai, Chennai	Copy for information

