



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. : MRA-1290		
Induced Voltage (IV) calculation for PTCC proposal of LILO of one circuit of 220 kV D/C Jalna-Chikhali Transmission Line at 220 kV Nagewadi S/s [Length – 1.70 km] – Regd.		
S. No	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/In/B-610/No08920	30.12.2024
(ii)	BSNL: IC/MBI/PTCC/MRA-2596/03	08.03.2025
(iii)	South Central Railway: SG.85/4/3/PTCC/2024-25/SCRMH12	30.01.2025
(iv)	Defense: B/46937/Sigs-7(b)/4344	19.02.2025

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, BSNL WZ and DG Signals, MoD has issued No Objection Certificate (NOC) vide reference (ii) & (iv) respectively.

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

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Western Zone	QA & Inspection circle, 1 st floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santacruz (West), Mumbai-400054	
2.	GM (S&T)	South Central Railway Secunderabad	
3.	Chief Engineer (Proj. Scheme Dept.) MSETCL	O/o Chief Engineer MSETCL, Mumbai	Copy for information.

ANNEXURE-I

CEA Case No.: MRA-1290			Map Scale : 1 cm= 500 m		
Name of the Power line: LILO of one circuit of 220 kV D/C Jalna-Chikhali Transmission Line at 220 kV Nagewadi S/s			Total Length : 1.70 km		
			S.R. Value : 5000 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: SG.85/4/3/PTCC/2024-25/SCRMH12 Dated 30.01.2025					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Badnapur - Dinagaon				-Out of Parallelism-
2	Dinagaon - Jalna				-Out of Parallelism-
3	Jalna - Sarwari				-Out of Parallelism-