



सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

CEA Case No. : MRA-1281		
Induced Voltage (IV) calculation for PTCC proposal of 220 kV D/C Nagewadi - Bhokardhan Transmission Line[Length – 45.03 km] – Regd.		
S. No	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/In/B-606/No05822	26.08.2024
(ii)	BSNL: IC/MBI/PTCC/MRA-2677/03	27.11.2024
(iii)	South Central Railway: SG.85/4/3/PTCC/2024-25/SCRMH09RTD	09.12.2024
(iv)	Defense: B/46937/Sigs-7(b)/4146	06.11.2024

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-1281 Name of the Power line: 220 kV D/C Nagewadi - Bhokardhan Transmission Line.			Map Scale : 1 cm= 500 m Total Length : 45.03 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/SCRMH09RTD Dated 09.12.2024					
<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-			