



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-1334		
Induced Voltage (IV) calculation for PTCC proposal for 220kV Khed city S/s to Loc. No. 9 of existing 220kV Lonikand- Ranjangaon Transmission Line(Re-orientation for 765/400/220 kV Shikrapur S/s connectivity) (Length-13.171 km)- regd.		
S. No	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/In/B-622/ received by e-mail	12.01.2026
(ii)	MSETCL Undertaking Defense: EL 471318 received via e-mail	06.01.2026
(iii)	BSNL: IC/MBI/PTCC/MRA-2751/03	07.11.2025
(iv)	Central Railway: N.705/T/PTCC/220kV/MAH-982	20.11.2025

The PTCC proposal submitted vide above references (i) has been examined. The LF induction on Block and Telecom circuits of BSNL 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 BSNL under Single Line to Ground fault condition is enclosed at Annexure-I. The screening factors as applicable have been considered. Central Railway has issued No Objection Certificate (NOC) vide reference (iv) respectively.

As all the associated S/s are existing ones, therefore EPR zone verification is not warranted.

Telecommunication details from Defense are still pending and vide above reference (ii) transmission utility has shown urgency for charging of line and has requested for provisional PTCC approval. Taking above into consideration, necessary action for issuance of provisional PTCC route approval (RAC) shall be taken under intimation to this office in the stipulated period as specified in PTCC Manual and subsequent CLPTCC meetings.

As per the decision taken in 111th and 112th CLPTCC meeting, necessary instructions for “Deemed Energization approval” shall be specified while issuing RAC.

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Western Zone	QA & Inspection circle, 1st floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santacruz (West), Mumbai-400054	<u>ANNEXURE-I</u>
2.	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.
3.	chief Engineer (Projects)	Chief Engineer (Projects Schemes) Maharashtra State Electricity Transmission CO. Ltd. Plot No. C-19 EBlock, BKC, Bandra (E), Mumbai- 400 051	Copy for information

ANNEXURE-I

CEA Case No. : MRA-1334					
Name of the Power line: Induced Voltage (IV) calculation for PTCC proposal for 220kV Khed city S/s to Loc. No. 9 of existing 220kV Lonikand-Ranjangaon Transmission Line(Re-orientation for 765/400/220 kV Shikrapur S/s connectivity) (Length-13.171 km)- regd.			Map Scale : 1 cm= 500 m		
			Total Length : 13.171 km		
			S.R. Value : 20000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling In Ohms.	Effective Fault current In Amps.	I.V in Volts.
BSNL Letter No.: IC/MBI/PTCC/MRA-2751/03 Dated 07.11.2025					
<u>Affected Blocks & Telecom Circuits Details</u>					
1.	Kendur Cable	5.8	0.0138	13623	188.12V
2.	Pabal Local cable	1.2	0.00543	10362	56.52V