



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-1328B		
Induced Voltage (IV) calculation for PTCC proposal for 220 kV S/c Transmission line from 220kV Tuljapur S/s to 220 kV Barshi S/s, utilizing the corridors of the 220V S/c Murud Tuljapur Transmission Line and 220kV S/c Dharashiv-Barshi Transmission Line partially, by disconnecting the line towards Murud at Tower No.137 and towards Dharashiv at Tower No 15 respectively (0.986 km)- regd.		
S. No	Reference No.	Dated
(i)	MSETCL: MSETCL/CO/PS/PTCC/IN/B-623/08358	22.09.2025
(ii)	MSETCL: e-mail	20.02.2026
(iii)	BSNL: IC/MBI/PTCC/MRA-2752/03	03.01.2026
(iv)	Central Railway :N.705/T/PTCC/220kV/MAH-986	20.11.2025
(v)	Defense: B/46937/Sigs-7(b)/5179	20.11.2025

The PTCC proposal submitted vide above references (i) and (ii) 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 vide reference (iv) and DG Signals, MoD vide reference (v) has issued No Objection Certificate (NOC) for charging of the line.

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

Taking above into consideration, necessary action for issuance of 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.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC)	QA & Inspection circle, 1st floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santacruz (West), Mumbai-400054	ANNEXURE-I
2.	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-1328B					
Name of the Power line: PTCC proposal of 220 kV S/c Transmission line from 220kV Tuljapur S/s to 220 kV Barshi S/s, utilizing the corridors of the 220V S/c Murud-Tuljapur Transmission Line and 220kV S/c Dharashiv-Barshi Transmission Line partially, by disconnecting the line towards Murud at Tower No.137 and towards Dharashiv at Tower No 15 respectively (0.986 km)- regd.		Map Scale : 1 cm= 500 m			
		Total Length : 0.986 km			
		S.R. Value : 25000 Ohm-cm			
S.N.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling In Ohms.	Effective Fault current In Amps.	I.V in Volts.
BSNL Letter No.: BSNL IC/MBI/PTCC/MRA-2752/03 Dated 03.01.2026					
<u>Affected Blocks & Telecom Circuits Details</u>					
1.	Indian Oil petrol Pump to pimpari BTS Armored 6F OF cable				IV less than 430 V