



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-1318		
Induced Voltage (IV) Calculation for PTCC proposal of 33 kV D/C line from 400/33 kV (Phase 2.1) 50 MW PSS of ReNew Green (MHS Three) Pvt. Limited to 400/33 kV (Phase 2.2) 50 MW PSS of ReNew Green (MHS Three) Pvt. Limited (Length: 8.26 kms)		
S. No	Reference No.	Dated
(i)	RGMTPL/CEA/PTCC-02	09.09.2025
(ii)	Central Railway: N.705/T/PTCC/33kV/MAH-978	01.10.2025

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on communication circuits of Central Railway with respect to details furnished vide above references (ii) has been computed. The voltage likely to be induced on paralleling communication cables of under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered.

Taking the above into consideration, the values of Induced Voltages may be examined, and further comments may be sent to this office for issuance of Route Approval Certificate.

Encl.: As above

Chief Engineer

To,

1.	Chief Communication Engineer, Central Railway	3 rd Floor, Annexe Building, Chhatrapati Shivaji Maharaj Terminus, Mumbai	
2.	ReNew Green (MHS Three) Pvt. Limited	ReNew Hub, Commercial Block-1, Zone-6, Golf Course Road, DLF City, Phase-V, Gurugram – 122 009	Copy for information

ANNEXURE-I

CEA Case No.: MRA-1318			Map Scale : 1 cm= 500 m		
Name of the Power line: 33 kV D/C line from 400/33 kV (Phase 2.1) 50 MW PSS of ReNew Green (MHS Three) Pvt. Limited to 400/33 kV (Phase 2.2) 50 MW PSS of ReNew Green (MHS Three) Pvt. Limited			Total Length : 8.26 km		
			S.R. Value : 25000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
Central Railway: N.705/T/PTCC/33kV/MAH-978 Date: 01.10.2025					
1	Tilati – Akkalkot Road - Nagansur	2	0.00131	23664	31