



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**  
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<b>CEA Case No. : MRA-1322</b>		
<b>Induced Voltage (IV) Calculation for PTCC proposal for 33 kV cables from 400/33 kV 50 MW + 50 MW PSS of ReNew Green (MHS Three) Pvt. Limited to 12 No.s of solar blocks at Solapur (Length: 18.785 kms)</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	RGMTPL/CEA/PTCC-01	09.09.2025
(ii)	Central Railway: N.705/T/PTCC/33kV/MAH-977	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 <sup>rd</sup> 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-IA**

<b>CEA Case No.: MRA-1322</b> <b>Name of the Power line:</b> 33 kV cables from 400/33 kV 50 MW + 50 MW PSS of ReNew Green (MHS Three) Pvt. Limited to 12 No.s of solar blocks at Solapur			<b>Map Scale</b> : 1 cm= 500 m <b>Total Length</b> : 18.785 km <b>S.R. Value</b> : 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.
<b>Central Railway: N.705/T/PTCC/33kV/MAH-977 Date: 01.10.2025</b>					
1	Akkalkot Road – Nagansur- Boroti	1.65	0.000363	24793	9