



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-1267		
Induced Voltage calculation for PTCC proposal for 33 kV S/C Feeder-01 from 220/33 kV Pooling Substation of M/s RSRPL at Ghatnandur village, Osmanabad to 33 kV Wind Power Double pole yard tapping point 348 of RSRPL (Length: 22.8 kms).		
S. No	Reference No.	Dated
(i)	RSPPL/RTC1-W3/33kV/PTCC/CEA/24-25/E/136	17.05.2024
(ii)	BSNL: IC/MBI/PTCC/MRA-2668/02	05.08.2024
(iii)	Central Railway: N.153/PTCC/33kV/MAH-900	22.07.2024
(iv)	Defense: B/46937/Sigs 7(b)/3960	09.08.2024

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on communication circuits of BSNL vide above reference (ii) have been computed. The voltage likely to be induced on paralleling communication cables of BSNL under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. GM (S&T), Central Railway vide reference (iii) and DG Signals, MoD vide reference (iv) have issued No Objection Certificate (NOC) for charging of the line.

EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
220/33 kV Pooling Substation of M/s RSRPL at Ghatnandur village, Osmanabad	94.4	24	0.3374	1683	1082	15	NA
33 kV Wind Power Double pole yard tapping point	7.43	6.2	0.537	50	31	NA	NA

As per the details submitted by BSNL, No Telephone exchange is falling within the EPR zone of proposed substation

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.

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.	M/s ReNew Surya Roshni Private Limited	ReNew Hub, Commercial Block-1, Zone-6, Golf Course Road, DLF City, Phase-V, Gurugram	Copy for information

ANNEXURE-I

CEA Case No.: MRA-1267 Name of the Power line: 33 kV S/C Feeder-01 from 220/33 kV Pooling Substation of M/s RSRPL at Ghatnandur village, Osmanabad to 33 kV Wind Power Double pole yard tapping point 348 of RSRPL			Map Scale : 1 cm= 500 m Total Length : 22.8 km S.R. Value : 30000 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: IC/MBI/PTCC/MRA-2668/02 Date: 05.08.2024					
1	Izora Fata to Izora Road BTS	IV less than 430 V			