



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-1249		
Induced Voltage (IV) Calculation for PTCC proposal of 33 kV (partially S/C and partially D/C) Feeder-06 on RSJ Pole with AL-59 Dog, Panther & ECO Panther conductor from proposed 350 MW 220/33 kV PSS of M/s SRI4PL at Shendi Village, Dharashiv to 33/0.69 kV Wind power unit substation at PK-03 (Length: 33.89 km)		
S. No	Reference No.	Dated
(i)	SRIPL-4/33kV/PTCC/F6	13.04.2024
(ii)	Everrenew E-mail:	23.08.2024
(iii)	BSNL: IC/MBI/PTCC/MRA-2645/03	13.07.2024
(iv)	Central Railway: N.153/PTCC/33kV/MAH-888	25.07.2024
(v)	Defense: B/46937/Sigs7(b)/3924	22.07.2024

The PTCC proposal submitted vide reference (i) and (ii) has been examined. The LF induction on communication circuits of BSNL with respect to details furnished vide above references (iii) has 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 (iv) and DG Signals, MoD vide above reference (v) have issued their No Objection Certificate (NOC) for charging of the line.

EPR Zones for proposed substations are mentioned below:

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current, I (kA)	Resistance of earthmat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
220/33 kV PSS of M/s SRI4PL at Shendi Village, Dharashiv	125.25	21.5	0.478	2868	1855	59	3
33/0.69 kV Wind power unit substation	12.095	24.5	0.22	140	88	NA	NA

As per the details submitted by BSNL vide reference (iii) above, no telephone exchange is falling in the EPR zone of the proposed substations.

Taking the above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

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), Western Zone	QA & Inspection circle, 1 st floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santacruz (West), Mumbai-400054	
2.	M/s Serentica Renewables India 4 Private Limited	DLF Cyber Park, 9 th floor, Tower-B, Udyog Vihar, Phase-III, Sector-20, Gurugram – 122 008	Copy for information

ANNEXURE-I

CEA Case No.: MRA-1249			Map Scale : 1 cm= 500 m		
Name of the Power line: 33 kV (partially S/C and partially D/C) Feeder-06 on RSJ Pole with AL-59 Dog, Panther & ECO Panther conductor from proposed 350 MW 220/33 kV PSS of M/s SRI4PL at Shendi Village, Dharashiv to 33/0.69 kV Wind power unit substation at PK-03			Total Length : 33.89 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-2645/03 Date: 13.07.2024					
1	Izora fata. – Izora road BTS (L – M)		Out of parallelism		

Directorate General of Signals
Signals 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi – 110011

MRA-1249


B/46937/Sigs 7(b)/3924/

Jul 2024

Serentica Renewables India 4 Pvt Ltd.
Regd Off: DLF Cyber Park, 9th Floor, Tower B, Udyog Vihar
Ph-III, Sector-20 Gurugram (Haryana)-122008

**PTCC PROPOSAL FOR CONSTRUCTION OF PROPOSED 33KV OVER
HEADLINE FOR FEEDER NO. 6 FROM PROPOSED 220/33KV POOLING
STATION OF M/S SERENTICA RENEWABLES INDIA 4 PVT LTD 350 MW TO
PK-03 OF M/S SERENTICA RENEWABLES INDIA 4 PVT LTD WIND POWER
UNIT SUBSTATION AT SHENDI VILLAGE, AHMEDNAGAR DISTRICT,
MAHARASTRA**

1. Refer your letter No SRIPL-4/33KV/PTCC/F6 dt 02 May 2024 (copy att).
2. **No Objection Certificate (NOC) is accorded** based on inputs provided as per Map sheet received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.


(Puneet Lakhanpal)
Lieutenant Colonel
General Staff Officer Grade 1 (Communication)
for Additional Director General (Telecommunication)

Enclosures : As above

Copy to :-

The Divisional Engineer (PTCC)
'D' Wing, 3rd Floor, Admn Bdg
Telecom Complex,
Juhu Tara Road,
Santracruz West, Mumbai – 400054

Chief Engineer, PSCD Division
Central Electricity Authority
Room No 702 (North Wing)
Sewa Bhawan, R.K. Puram, Sector-1
New Delhi-110066

The DET(PTCC), Northern Zone
Bharat Sanchar Nigam Limited
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

- for information

केन्द्रीय विद्युत प्राधिकरण
पी.सी.डी. प्रभाग
आयरी संख्या... 971
दिनांक... 12.08.24