



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. : KNK-1072		
Induced Voltage (IV) Calculation for PTCC proposal of 33 kV S/C Feeder-12 from 220/33 kV Pooling Substation, Thondihala Koppal to Double Pole yard Tapping Point L2-20 of RSOPL Peak Power Wind farm. (Length: 9.2 kms)		
S. No	Reference No.	Dated
(i)	RSOPL/Peak power/33kV/PTCC/24-25/018	18.01.2024
(ii)	RSOPL E-mail:	10.07.2024
(iii)	BSNL: SR-PTCC/SKT5822/2	10.05.2024
(iv)	South Western Railway: SG/SWR/PTCC/KNK1072/2727	03.06.2024
(v)	Defense: B/46937/Sigs 7(b)/3727	16.05.2024

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

DET (PTCC), SZ, BSNL vide reference (iii) and DG Signals, MoD vide reference (v) has given their NOC for charging 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 Pooling Substation, Thondihala Koppal	88.46	24	0.1201	505	304	NA	NA
33 kV Feeder-12 Double Pole yard Tapping Point L2-20	6.01	6.2	0.429	31	19	NA	NA

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

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Southern Zone	O/o CGM, QA&I circle, 2 nd floor, Sanchar Complex, WMS Compound, Jayanagar, 5 th block, 9 th main, 47 th cross, Bengaluru- 560 041	
2.	GM (S&T), South Western Railway	South Western Railway Headquarter, Rail Soudha, Hubballi – 580 023	
3.	M/s ReNew Surya Ojas Private 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.: KNK-1072 Name of the Power line: 33 kV S/C Feeder-12 from 220/33 kV Pooling Substation, Thondihala Koppal to Double Pole yard Tapping Point L2-20 of RSOPL Peak Power Wind farm.			Map Scale : 1 cm= 500 m Total Length : 9.2 kms 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.
South Western Railway: SG/SWR/PTCC/KNK1072/2727 Dated: 03.06.2024					
1	RLP-SOQ	1.7	0.000071	14084	1
2	SOQ-BNA	2.1	~ 0	-	~ 0

E-mail: webstar@nic.in

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

KNK-1072

B/46937/Sigs 7(b)/3727

16 May 2024

Senior Manager, Projects
 ReNew Surya Ojas Private Limited
 Corporate Off: ReNew Hub, Commercial Block-1
 Zone-6, Golf Course Road, DLF City Phase-V
 Gurugram-122009

**PTCC PROPOSAL FOR 33KV SCOH LINE (33KV FEEDER NO 12) FROM THE
 220/33 KV POOLING S/S AT THONDIHALA VILLAGE, YELBURGA TALUK,
 KOPPAL DISTRICT TO PROPOSED RENEW (RSOPL) WIND 33KV WIND
 POWER DOUBLE POLE YARD TAPPING POINT LS-20**

1. Refer your letter No RSOPL/Peak Power/33kV/PTCC/MoD/24-25/E/042 dt 03 Feb 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
 PGM (North), QA & Inspection Circle,
 Tax Building, Eastern Court, Janpath
 New Delhi-110001

- for information

Central Electricity Authority

PCD Division

Diary No. 101

Date 04/05/24

Sh Anshu (DD)
 04/05