



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. : KNK-1069</b>		
<b>Induced Voltage (IV) Calculation for PTCC proposal of 33 kV (partially S/C and partially D/C) Feeder-09 from 220/33 kV Pooling Substation, Thondihala Koppal to Double Pole yard Tapping Point SGTA-57 of RSOPL Peak Power Wind farm. (Length: 1.22 kms D/C + 8.62 kms S/C).</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	RSOPL/Peak power/33kV/PTCC/24-25/015	18.01.2024
(ii)	RSOPL E-mail:	10.07.2024
(iii)	BSNL: SR-PTCC/SKT5935/2	26.06.2024
(iv)	South Western Railway: SG/SWR/PTCC/KNK1069/2724	03.06.2024
(v)	Defense: B/46937/Sigs 7(b)/3734	16.05.2024

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 reference (ii) has been computed. The voltage likely to be induced on paralleling communication circuits of BSNL 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-09 Double Pole yard Tapping Point SGTA-57	6.01	6.2	0.449	33	20	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 <sup>nd</sup> floor, Sanchar Complex, WMS Compound, Jayanagar, 5 <sup>th</sup> block, 9 <sup>th</sup> main, 47 <sup>th</sup> 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**

<b>CEA Case No.:</b> KNK-1069		<b>Map Scale</b> : 1 cm= 500 m			
<b>Name of the Power line:</b> 33 kV (partially S/C and partially D/C) Feeder-09 from 220/33 kV Pooling Substation, Thondihala Koppal to Double Pole yard Tapping Point SGTA-57 of RSOPL Peak Power Wind farm.		<b>Total Length</b> : 1.22 kms D/C + 8.62 kms S/C			
		<b>S.R. Value</b> : 25000 Ohm-cm			
<b>S.No.</b>	<b>Telecom. Details</b>	<b>Length of Parallelism in Km.</b>	<b>Mutual Coupling in Ohms.</b>	<b>Effective Fault current in Amps.</b>	<b>I.V in Volts.</b>
South Western Railway: SG/SWR/PTCC/KNK1069/2724 Dated: 03.06.2024					
1	KANR – SGNL	2.1	0.00047	10657	5
2	SGNL - HAPR	Out of parallelsim			

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-1069

B/46937/Sigs 7(b)/3734

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 9) 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 SGTA-57**

1. Refer your letter No RSOPL/Peak Power/33kV/PTCC/MoD/24-25/E/039 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, 3<sup>rd</sup> 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

Central Electricity Authority  
PCD Division

Diary No. 38  
Date 04-05-24

sh Arudh (DD)  
04/6