



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**  
 \*\*\*\*\*

<b>CEA Case No. : KNK-1064</b>		
<b>Induced Voltage (IV) Calculation for PTCC proposal of 33 kV S/C Feeder-08 from 220/33 kV Pooling Substation, Thondihala Koppal to Double Pole yard Tapping Point T-04 of RSOPL Peak Power Wind farm (Length: 8.6 kms).</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	RSOPL/Peak power/33kV/PTCC/24-25/014	10.01.2024
(ii)	RSOPL E-mail:	10.07.2024
(iii)	BSNL: SR-PTCC/SKT5932/2	25.06.2024
(iv)	South Western Railway: SG/SWR/PTCC/KNK1064/2723	14.05.2024
(v)	Defense: B/46937/Sigs 7(b)/3725	16.05.2024

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

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-08 Double Pole yard Tapping Point T-04	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 <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-1064  <b>Name of the Power line:</b> 33 kV S/C Feeder-08 from 220/33 kV Pooling Substation, Thondihala Koppal to Double Pole yard Tapping Point T-04 of RSOPL Peak Power Wind farm		<b>Map Scale</b> : 1 cm= 500 m  <b>Total Length</b> : 8.6 kms  <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>

BSNL: SR-PTCC/SKT5932/2 Dated: 25.06.2024

1	A1 – A2 (Sanganahal)	IV less than 430 V
2	B1- B2 (Rajur)	IV less than 430 V

**ANNEXURE-II**

<b>CEA Case No.:</b> KNK-1064  <b>Name of the Power line:</b> 33 kV S/C Feeder-08 from 220/33 kV Pooling Substation, Thondihala Koppal to Double Pole yard Tapping Point T-04 of RSOPL Peak Power Wind farm			<b>Map Scale</b> : 1 cm= 500 m  <b>Total Length</b> : 8.6 kms  <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/KNK1064/2723 Dated: 14.05.2024					
1	KANR – SGNL	3.2	0.00124	16254	20
2	SGNL - HAPR	1.1	0.00072	5556	4

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-1064


B/46937/Sigs 7(b)/3725

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 8) 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 T-04**

1. Refer your letter No RSOPL/Peak Power/33kV/PTCC/MoD/24-25/E/038 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,  
 Santraacruz 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  
 C/o PGM (North), QA & Inspection Circle,  
 DITax Building, Eastern Court, Janpath  
 New Delhi-110001

- for information

Central Electricity Authority

PCD Division

Diary No.....

Date.....

sh Anshu (DD)

8/04/24