



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-1116</b>		
<b>Induced Voltage (IV) Calculation for PTCC proposal of 33 kV Feeder-4 (partially S/C and partially D/C) from the 220/33kV Pooling Substation of M/s RSRPL at Huyilagola village, Gadag to 33kV wind power Double pole yard tapping point SGHB-94 N3 of RSRPL (Length: 6.7 kms D/C + 14.8 kms S/C :Total = 21.5 kms).</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	RSRPL/RTC1-W2/33 kV/PTCC/CEA/24-25/E/076	22.04.2024
(ii)	BSNL: SR-PTCC/SKT6142/7	17.09.2024
(iii)	South Western Railway: SG/SWR/PTCC/KNK1116/2749	20.06.2024
(iv)	Defense: B/46937/Sigs 7(b)/3937	22.07.2024

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on communication circuits of South Western Railway with respect to details furnished vide above reference (iii) have been computed. The voltage likely to be induced on paralleling communication cables 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 (ii) and DG Signals, MoD vide above reference (iv) (enclosed as Annexure-II) 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
220/33kV Pooling Substation of M/s RSRPL at Huyilagola village, Gadag	97.5	24	0.2005	994	624	NA	NA
33kV wind power Double pole yard tapping point SGHB-94 N3	14.5	25	0.1143	82	49	NA	NA

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

As per the decision taken in 111<sup>th</sup> and 112<sup>th</sup> CLPTCC meeting, necessary instructions for “*Deemed Energization approval*” shall be specified while issuing RAC.

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.	PCSTE/SWR	Principal Chief Signal & Telecom Engineer, Rail Soudha, Gadag Road, Hubballi-580020	
3.	M/s ReNew Surya Roshni Private Limited	ReNew Hub, Commercial Block-1, Zone-6, Golf Course Road, Gurugram – 122 009	Copy for information

**ANNEXURE-I**

<b>CEA Case No.: KNK-1116</b>			<b>Map Scale</b> : 1 cm= 500 m		
<b>Name of the Power line:</b> 33 kV Feeder-4 (partially S/C and partially D/C) from the 220/33kV Pooling Substation of M/s RSRPL at Huyilagola village, Gadag to 33kV wind power Double pole yard tapping point SGHB-94 N3 of RSRPL			<b>Total Length</b> : 6.7 kms D/C + 14.8 kms S/C :Total = 21.5 kms		
			<b>S.R. Value</b> : 30000 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>
<b>South Western Railway: SG/SWR/PTCC/KNK1116/2749 Date: 20.06.2024</b>					
1	GDG to HBL	3.4	0.01574	15312	241
2	HBL to BLR	1.2	0.00431	13527	58

Directorate General of Signals

Signals 7

General Staff Branch

KNK-1116

Integrated HQ of MoD, (Army)

DHQ PO, New Delhi – 110011

B/46937/Sigs 7(b)/3937/

Jul 2024

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

**33KV FEEDER NO-4 PTCC PROPOSAL (PARTIALLY SC AND PARTIALLY DC LINE) FROM THE 220/33KV POOLING S/S AT HUYILAGOLA VILLAGE TO PROPOSED RENEW (RSRPL) WIND 33KV WIND POWER DOUBLE POLE YARD TAPPING POINT SGHB-94 N3**

1. Refer your letter No. RSRPL/RTC1-W2/33 KV/PTCC/MoD/24-25/E/096 dt 06 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, 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

केन्द्रीय विद्युत प्राधिकरण  
 पी.सी.डी. प्रभाग  
 डायरी संख्या... 908/24  
 दिनांक... 01.08.24