



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-1119</b>		
<b>Induced Voltage (IV) Calculation for PTCC proposal of 33 kV Feeder-8 (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 K007N2 of RSRPL (Length: 4.9 kms D/C + 15.5 kms S/C : Total = 20.4 kms).</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	RSRPL/RTC1-W2/33 kV/PTCC/CEA/24-25/E/079	22.04.2024
(ii)	BSNL: SR-PTCC/SKT6136/7	19.08.2024
(iii)	South Western Railway: SG/SWR/PTCC/KNK1119/2752	20.06.2024
(iv)	Defense: B/46937/Sigs 7(b)/3940	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.

DGM, 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 K007N2	14.5	25	0.1143	82	49	NA	NA

As per the details submitted by BSNL, No Telephone exchange is falling within the EPR zone of proposed substation

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.	DGM (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.	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-1119</b>		<b>Map Scale</b> : 1 cm= 500 m			
<b>Name of the Power line:</b> 33 kV Feeder-8 (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 K007N2 of RSRPL		<b>Total Length</b> : 4.9 kms D/C + 15.5 kms S/C : Total = 20.4 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/KNK1119/2752 Date: 20.06.2024</b>					
1	HBL to BLR	4.65	0.00668	12276	82
2	BLR - MLP	Out of parallelism			

Directorate General of Signals  
Signals 7  
General Staff Branch **KNK-1119**  
Integrated HQ of MoD, (Army)  
DHQ PO, New Delhi – 110011

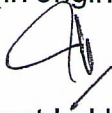
B/46937/Sigs 7(b)/3940/

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-8 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 K007N2**

1. Refer your letter No. RSRPL/RTC1-W2/33 KV/PTCC/MoD /24-25/E/099 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.....

दिनांक.....