



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-1094</b>		
<b>Induced Voltage (IV) Calculation for PTCC proposal of 33 kV S/C Feeder-04 from 220/33 kV Pooling Substation of M/s RSRPL at Hirehandigol village, Gadag to 33 kV Wind Power Double pole yard tapping point SGHB-78 of RSRPL (Length: 23.7 kms).</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	RSRPL/RTC1-W1/33 kV/PTCC/CEA/24-25/E/046	20.03.2024
(ii)	RSRPL E-mail	28.08.2024
(iii)	BSNL: SR-PTCC/SKT6127/7	14.08.2024
(iv)	South Western Railway: SG/SWR/PTCC/KNK1094/2739	03.07.2024
(v)	Defense: B/46937/Sigs 7(b)/3895	25.07.2024

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 references (iv) has 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 (iii) and DG Signals, MoD vide reference (v) have 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 of M/s RSRPL at Hirehandigol village, Gadag	93.51	24	0.2005	953	599	NA	NA
33 kV Wind Power Double pole yard tapping point SGHB-78	6.01	17.88	0.1201	24	14	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) shall 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.	GM (S&T), South Western Railway	South Western Railway Headquarter, Rail Soudha, Hubballi – 580 023	
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-1094</b>			<b>Map Scale : 1 cm= 500 m</b>		
<b>Name of the Power line:</b> 33 kV S/C Feeder-04 from 220/33 kV Pooling Substation of M/s RSRPL at Hirehandigol village, Gadag to 33 kV Wind Power Double pole yard tapping point SGHB-78 of RSRPL			<b>Total Length : 23.7 km</b>		
			<b>S.R. Value : 25000 Ohm-cm</b>		
<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 Letter No SG/SWR/PTCC/KNK1094/2739 Date: 03.07.2024</b>					
1	NGR to LKT	3.7	0.00026	9831	3
2	LKT to BKIT	1.7	0.00059	14157	8
3	BKIT to GDG	Out of parallelism			
4	GDG to HBL	4.8	0.00089	16854	15

Directorate General of Signals  
Signals 7  
General Staff Branch **KNK-1094**  
Integrated HQ of MoD, (Army)  
DHQ PO, New Delhi – 110011

B/46937/Sigs 7(b)/3895/

95 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

**PTCC PROPOSAL FOR 33KV SCOH LINE (33KV FEEDER NO-4) FROM THE  
220/33KV POOLING SUBSTATION, HIREHANDIGOL VILLAGE, GADAG TALUK,  
GADAG DISTRICT TO 33KV WIND POWER DOUBLE POLE YARD TAPPING  
POINT SGHB-78**

1. Refer your letter No. RSRPL/RTC1-W1/33 KV/PTCC/MOD/24-25/E/066 dt 22 Apr 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. Documens 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

- for information

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

केन्द्रीय विद्युत प्राधिकरण  
पी.सी.डी. कार्यालय  
आयरी संख्या. 1299  
दिनांक. 8/8/24