

I/27654/2023



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division

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ONE EARTH - ONE FAMILY - ONE FUTURE

CEA Case No. : KNK-1030		
PTCC approval for 220 kV S/C line on D/C tower from 220/66/11 kV Kudligi S/s of KPTCL to proposed Solar and Wind power pooling S/s of M/s Renew Green Energy Solutions Pvt. Ltd at Virapura Village (9.222 km) – Regd.		
S. No	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3559/10637-75	29.03.2023
(ii)	M/s RGE SPL: RGE SPL/Kudligi/PTCC/23-24/E/023	02.05.2023
(iii)	BSNL: SR-PTCC/SKT 4863/05	25.04.2023
(iv)	South Western Railway: SG/SWR/PTCC/F-3559/2508	24.04.2023

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on communication circuits of BSNL with respect to details furnished vide above reference (iii) has been computed. The voltages likely to be induced on paralleling communication cables of BSNL under Single Line to Ground fault conditions are enclosed at Annexure-I. The screening factors as applicable have been considered. South Western Railway vide above reference (iv) has issued their No Objection Certificate (NOC) for charging of the subject cited transmission line.

EPR Zones for proposed substation are mentioned below.

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current, I (kA)	Resistance of earth mat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
220 kV Pooling S/s of M/s RGE SPL, Virapura	85.5	21200	0.19504	737	458	NA	NA

As per the details submitted by BSNL vide reference (iii) above, no telephone exchanges are falling in the EPR zone of the proposed substations.

Telecommunication details from DG Signals, MoD are awaited however, vide reference (ii) above, M/s RGE SPL have informed that all construction related work of the transmission line has completed and the line is ready for charging. So as to charge the subject cited transmission line as per schedule, M/s RGE SPL has requested for provisional PTCC clearance.

Taking above into consideration, necessary action for issuance of provisional PTCC route approval may be taken under intimation to this office. LF induction on telecommunication circuits of Defense will be communicated after the receipt of details from DG Signals, MoD.

Encl.: As above

Chief Engineer

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To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle,1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105	With a request to provide details of Telecom assets/ NOC at the earliest for IV calculation and issuance of final RAC.
3.	M/s Renew Green Energy Solutions Private Limited	Renew Hub, Commercial Block-1, Zone-6, Golf Course Road, DLF City Phase-V, Gurugram -122 009	

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**ANNEXURE-I**

CEA Case No.: KNK-1030			Map Scale : 1 cm= 500 m		
Name of the Power line: 220 kV S/C line on D/C tower from 220/66/11 kV Kudligi S/s of KPTCL to proposed Solar and Wind power pooling S/s of M/s Renew Green Energy Solutions Pvt. Ltd at Virapura Village			Total Length : 9.222 km		
			S.R. Value : 30000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
<b>BSNL Letter No: SR-PTCC/SKT 4863/05 Date: 25.04.2023</b>					
<b>I</b>	<b>Kudligi Telephone Exchange</b>				
1	Kudligi Telephone Exchange to Govinda Giri (K-K1)		IV less than 430 V		
2	Kudligi Telephone Exchange to Ambedkar circle (K-K2)		IV less than 430 V		
3	Kudligi Telephone Exchange to Ambedkar circle to Bandi Basapura (K-K2-K3)		IV less than 430 V		
4	Kudligi Telephone Exchange to Market (K-K4)		IV less than 430 V		
5	Kudligi Telephone Exchange to Ambedkar circle to Bomnahalli (K-K2-K5)	1.8	0.0026752	14578	39