

I/28219/2023



सत्यमेव जयते


 एकेश्वर एकुलकम्
 ONE EARTH - ONE FAMILY - ONE FUTURE

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

CEA Case No. : KNK-1027		
PTCC approval for 220 kV S/C line on D/C and M/C towers from proposed 220/33 kV Pooling Substation, Thondihala village, Yelburga Taluk, Koppal District to the proposed 400/220 kV Koppal PS (23.503 Km)		
S. No	Reference No.	Dated
(i)	RSOPL/Peak Power/220 kV/PTCC/22-23/E/159	10.01.2023
(ii)	CEA Letter: I/26109/2023	06.02.2023
(iii)	BSNL: SR-PTCC/SKT4807/10	12.05.2023
(iv)	South Western Railway: SG/SWR/PTCC/RSOPL/2497	26.04.2023
(v)	Defense: B/46937/Sigs 7(b)/3181	16.03.2023

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on communication circuits of BSNL and South Western Railway with respect to details furnished vide above references (iii) and (iv) respectively have been computed. The voltage likely to be induced on paralleling communication cables 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. Vide reference (v) above, DG Signals, MoD has issued No Objection Certificate (NOC) (enclosed as Annexure-III).

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
400/220 kV Koppal S/s	225	37.8	0.023	230	76	NA	NA
220/33 kV Pooling Substation, Thondihala village	88.45	24	0.12	504	303	NA	NA

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

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

I/28219/2023

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle,1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	Principal Chief Signal & Telecom Engineer	South Western Railway, Rail Soudha, Gadag road, Hubballi - 20	
3.	Senior Manager (Projects)	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

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ANNEXURE-I

CEA Case No.: KNK-1027			Map Scale : 1 cm= 500 m		
Name of the Power line: 220 kV S/C line on D/C and M/C towers from proposed 220/33 kV Pooling Substation, Thondihala village, Yelburga Taluk, Koppal District to the proposed 400/220 kV Koppal PS			Total Length : 23.503 km		S.R. Value : 20000 Ohm-cm
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
BSNL Letter No: SR-PTCC/SKT4807/10 Date: 12.05.2023					
I	Bannikoppa Telephone Exchange				
1	Bannikoppa MDF to PGB Bank		IV less than 430 V		
II	Tadakal Telephone Exchange				
1	Tadakal MDF to PGB Bank		Out of parallelism		

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ANNEXURE-II

CEA Case No.: KNK-1027		Map Scale : 1 cm= 500 m			
Name of the Power line: 220 kV S/C line on D/C and M/C towers from proposed 220/33 kV Pooling Substation, Thondihala village, Yelburga Taluk, Koppal District to the proposed 400/220 kV Koppal PS		Total Length : 23.503 km			
		S.R. Value : 20000 Ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
South Western Railway: SG/SWR/PTCC/RSOPL/2497 Date: 26.04.2023					
1	Harlapur (RLP) to Sompur Road (SOQ)	Out of parallelism			
2	Sompur Road (SOQ) to Banni Koppa (BNA)	8.2	0.0052	8269	43
3	Banni Koppa (BNA) to Talakal (TLKL)	2.75	0.016	8250	132
4	Talakal (TLKL) to Bhanapur (BNP)	3.0	0.0017	10588	18
5	Bhanapur (BNP) to Koppal (KBL)	Out of parallelism			
6	Talakal (TLKL) to Kuknoor (KANR)	6.35	0.00112	8036	9
7	Kuknoor (KANR) to Sanganahal (SGNL)	3.75	0.0005	12000	6

B/46937/Sigs 7(b)/3181

16 Mar 2023

Senior Manager, Projects
ReNew Surya Ojas Private Limited
ReNew Hub, Commercial Block-1, Zone-6
Golf Course Road, DLF City Phase-V
Gurgaon-122009

**PTCC PROPOSAL FOR 220KV S/C LINE ON D/C AND M/C TOWERS FROM
PROPOSED 220/33KV POOLING SUBSTATION, THONDIHALA VILLAGE,
YELBURGA TALUK, KOPPAL DISTRICT TO THE PROPOSED 400/220KV
KOPPAL PS (ISTS), TALAKALLA VILLAGE, KUKANURA TALUK, KOPPAL
DISTRICT**

1. Refer your letter No RSOPL/Peak Power/220kV/PTCC/22-23/E/160 dt 10 Jan 2023 (copy att).
2. **No Objection Certificate (NOC) is accorded** based on inputs provided as per Map sheets received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.



(SK Sharma)

Lt Col

GSO 1 (Comn)

for Offg ADG T

Enclosures : (As above)**Copy to :-**

The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi - 110016

- for information

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

PPM

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AD