

I/30652/2023



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

CEA Case No. : KNK-1043		
Induced Voltage (IV) Calculation for PTCC proposal of 220 kV S/C line on D/C tower from existing 220/66 kV Pavagada (Kotugudda) S/s of KPTCL to proposed 220/33 kV Kotuguda Pooling S/s, of M/s Green Infra Wind Energy Limited (0.65 km)- regd.		
S. No	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3617/2147-55	08.06.2023
(ii)	BSNL: SR-PTCC/SKT5075	03.08.2023
(iii)	South Western Railway: SG/SWR/PTCC/F-3617/2570	09.08.2023
(iv)	Defense: B/46937/Sigs 7(b)/3405 (received on 19.09.2023)	01.09.2023

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 references (ii) have been computed. The voltage likely to be induced on paralleling communication cables of BSNL under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. Vide reference (iii), South Western Railway has issued No Objection Certificate (NOC). Vide reference (iv), 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
220/33 kV Kotuguda Pooling S/s, of M/s Green Infra Wind Energy Limited	84.04	23.36	0.461	2021	1308	45	6

As per the details submitted by BSNL vide reference (ii) 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

[Signature]
29/9/23

Chief Engineer

I/30652/2023

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle,1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	Chief Engineer, Electricity	KPTCL, State Load Despatch Centre, #28, R.C. Cross Road, Bangalore - 560009	Copy for information

I/30652/2023

ANNEXURE-I

CEA Case No.: KNK-1043 Name of the Power line: 220 kV S/C line on D/C tower from existing 220/66 kV Pavagada (Kotugudda) S/s of KPTCL to proposed 220/33 kV Kotuguda Pooling S/s, of M/s Green Infra Wind Energy Limited			Map Scale : 1 cm= 500 m Total Length : 0.65 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.
BSNL Letter No: SR-PTCC/SKT5075 Date: 03.08.2023					
I	Kotagudda Telephone Exchange				
1	Kotagudda Exchange to Ponnasamudra (K-K1)		Out of parallelism		
2	Kotagudda Exchange to Pavagada (K-K2)		IV less than 430 V		
3	Kotagudda Exchange to Shailapura (K-K3)		Out of parallelism		
II	Pavagada RSU Exchange				
1	Pavagada Exchange to Virammanahalli (P-P1)		Out of parallelism		
2	Pavagada Exchange to Palavalli (P-P2)				
3	Pavagada Exchange to Kilaralahalli (P-P3)				
4	Pavagada Exchange to Rajavanthi (P-P4)				
5	Pavagada Exchange to Kodamadungu (P-P5)				

B/46937/Sigs 7(b)/3405

01 Sep 2023

Office of the Chief Engineer Electricity,
Karnataka Power Transmission Corporation Limited
State Load Despatch Centre,
28, R.C. Cross Road,
Bengaluru - 560 009

**PTCC PROPOSAL FOR CONSTRUCTION OF 220KV SC LINE ON DC TOWERS
FROM EXISTING 220/66KV KPTCL SS AT PAVAGADA (KOTUGUDDA) TO THE
PROPOSED 220/33KV POOLING SS OF M/S GREEN INFRA WIND ENERGY
LIMITED AT KOTUGUDDA VILLAGE IN PAVAGADA TALUK AND TUMAKUR
DISTRICT**

1. Refer your letter No CEE/SLDC/PTCC/F-3617/2147-55 dt 08 Jun 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)

Lieutenant Colonel

General Staff Officer Grade 1 (Communication)

for Additional Director General (Telecommunication)

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

Central Electricity Authority
PCD Division

Diary No. 12/2/2023

Date 12/2/2023

sh. Anchoya (DD)

20/9