

I/32802/2024



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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CEA Case No. : KNK-1040		
<b>Induced Voltage (IV) Calculation for PTCC proposal for 33 kV S/C OH line for Feeder No. 4 on RSJ Pole with AL59 Dog conductor and AL59 TW (Eco) Panther conductor from 220/33 kV Vena Energy Vidyuth Private Limited S/s at Jumalapura Village, Kushtagi to proposed 33 kV unit substation (Length: 9.06 km)</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	VENA/33kVPTCC/FED04	30.05.2023
(ii)	BSNL: SR-PTCC/SKT5093/02	19.12.2023
(iii)	South Western Railway: SG/SWR/PTCC/KNK1040/2612	06.11.2023
(iv)	Defense: B/46937/Sigs 7(b)/3431	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. South Western Railway and DG Signals, MoD have issued No Objection Certificate (NOC) vide reference (iii) and (iv) (enclosed as Annexure-II) respectively.

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 Vena Energy Vidyuth Private Limited S/s at Jumalapura Village, Kushtagi	113.1	28	0.2032	1383	877	NA	NA
33/0.69 kV Unit substation for Feeder No. 4	12.7	20	0.6184	353	229	10	3

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

**Director**

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**To,**

1.	Divisional Engineer (PTCC)	O/o CGM, QA & Inspection 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 Vena Energy Vidyuth Private Limited	2/1, First Floor, Embassy Icon Annexe Infantry Road, Bengaluru	Copy for information

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ANNEXURE-I

CEA Case No.: KNK-1040		Map Scale : 1 cm= 500 m			
Name of the Power line: 33 kV S/C OH line for Feeder No. 4 on RSJ Pole with AL59 Dog conductor and AL59 TW (Eco) Panther conductor from 220/33 kV Vena Energy Vidyuth Private Limited S/s at Jumalapura Village, Kushtagi to proposed 33 kV unit substation		Total Length : 9.06 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/SKT5093/02 Date: 19.12.2023					
<b>I</b>	<b>Tavaragera Telephone Exchange</b>				
1	Exchange to Menadhhal road (T-T1)	Out of parallelism			
2	Exchange to Kushtagi road (T-T2)				
3	Exchange to KEB office (T-TA)				
4	KEB office to Temple road (TA-T3)				
5	Exchange to Police Station (T-T4)				
6	KEB office to Killharhati road (TA-T5)				
7	KEB office to Sindhanoor road (TA-T6)				
<b>II</b>	<b>Hiremanpura Telephone Exchange</b>				
1	Exchange to Navalhalli road (H-H1)	Out of parallelism			
2	Exchange to Gumagera road (H-H2)				
3	Exchange to MG road (H-H2)				

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ANNEXURE-II

Tele : 23019746

Directorate General of Signals

Signals - 7

General Staff Branch

Integrated HQ of MoD, (Army)

DHQ PO, New Delhi – 110011

KNK-1040

B/46937/Sigs 7(b)/3431

01 Sep 2023

Vena Energy Vidyuth Private Limited  
2/1, 1<sup>st</sup> Floor, Embassy Icon Annexe,  
Infantry Road, Bangalore-560001  
Karnataka, India

**PTCC PROPOSAL FOR LAYING OF 33KV OVERHEAD LINE FOR  
FEEDER NO. 4 FOR WIND POWER PROJECT UNDER SECI BID IN KOPPAL  
DISTRICT, KARNATAKA (LENGTH: 9.06 KM)**

1. Refer your letter No Nil dt 19 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 Divisional Engineer (PTCC)  
'D' Wing, 3<sup>rd</sup> Floor, Admn Bdg  
Telecom Complex,  
Juhu Tara Road,  
Santracruz West, Mumbai – 400054

- for information

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

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. 849

Date: 29/9/23

Sh. Anubhaya (DD)  
20/9

PPU: 31/9/23  
25/10  
Sh. Prateek