



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

CEA Case No. : KNK-1112		
Induced Voltage (IV) Calculation for PTCC proposal of 33 kV S/C line on RSJ Pole from proposed 220/33 kV 153.6 MW Hybrid Power Project PSS of M/s KSPPL at Alwandi village, Koppal to proposed Vestas Feeder No. 5 WTGs comprising of 06 Nos. of 33 kV Unit substation of M/s KSPPL at Alwandi village, Koppal (Length: 10.74 km)		
S. No	Reference No.	Dated
(i)	KSPPL/KOPPAL/CEA/PTCC/WIND/05	04.04.2024
(ii)	BSNL: SR-PTCC/SKT6013/2	05.07.2024
(iii)	South Western Railway: SG/SWR/PTCC/KNK1112/2779	22.08.2024
(iv)	Defense: B/46937/Sigs 7(b)/3855	12.06.2024

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) has 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.

PCSTE, SWR vide reference (iii) and DG Signals, MoD vide reference (iv) has 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 153.6 MW Hybrid Power Project PSS of M/s KSPPL at Alwandi village, Koppal	88	44.7	0.0428	304	171	NA	NA
33 kV Wind Power Unit substation of M/s KSPPL at	31.835	25	0.176	294	184	NA	NA

Alwandi village, Koppal							
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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 may be taken under intimation to this office.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Southern Zone	O/o CGM, QA&I circle, 2 nd floor, Sanchar Complex, WMS Compound, Jayanagar, 5 th block, 9 th main, 47 th cross, Bengaluru- 560 041	
2.	M/s Kleio Solar Power Private Limited	9 th Floor, My Home Twitza, Plot No. 30/A, TSIIC Hyderabad Knowledge City, Raidurg, Hyderabad – 500 081	Copy for information

ANNEXURE-I

CEA Case No.: KNK-1112			Map Scale : 1 cm= 500 m		
Name of the Power line: 33 kV S/C line on RSJ Pole from proposed 220/33 kV 153.6 MW Hybrid Power Project PSS of M/s KSPPL at Alwandi village, Koppal to proposed Vestas Feeder No. 5 WTGs comprising of 06 Nos. of 33 kV Unit substation of M/s KSPPL at Alwandi village, Koppal			Total Length : 10.74 kms		S.R. Value : 7500 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/SKT6013/2 Date: 05.07.2024					
1	Alwandi TE to Bus Stand road		IV less than 430 V		

Directorate General of Signals 1112
 Signals - 7
 General Staff Branch KNK-1106
 Integrated HQ of MoD, (Army)
 DHQ PO, New Delhi - 110011

B/46937/Sigs 7(b)/3855

Jun 2024

Kleio Solar Power Private Ltd
 9th Floor, My Home Twitza, Plot No. 30/A
 TSIC Hyderabad Knowledge City, Raidurg
 Hyderabad, Telangana-500081

**PTCC PROPOSAL FOR CONSTRUCTION OF 33KV TRANSMISSION LINE
 (AL59-PANTHAR) STRUNG ON RSJ POLES FROM PROPOSED 33/220KV
 POOLING SUBSTATION OF 153.6MW HYBRID POWER PROJECT OF M/S
 KLEIO SOLAR POWER PVT LTD AT ALWANDI VILLAGE IN KOPPAL TALUK &
 KOPPAL DISTRICT TO PROPOSED VESTAS FD#5 WTG'S COMPRISING OF 06
 NOS OF 33KV UNIT SUBSTATION OF M/S KLEIO SOLAR POWER PVT LTD AT
 ALWANDI VILLAGE IN KOPPAL TALUK & KOPPAL DISTRICT, KARNATKA**

1. Refer your letter No KSPPL/KOPPAL/CEA/PTCC/WIND/05 dt 04 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. Documents 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, 3rd Floor, Admn Bdg
 Telecom Complex,
 Juhu Tara Road,
 Santracruz West, Mumbai - 400054

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/p PGM (North), QA & Inspection Circle,
 D-Tax Building, Eastern Court, Janpath
 New Delhi-110001

- for information

Central Electricity Authority
 PCD Division

Diary No. 69
 Date: 2/6/25