



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-1109		
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. 2 WTGs comprising of 07 Nos. of 33 kV Unit substation of M/s KSPPL at Alwandi village, Koppal (Length: 15.14 km)		
S. No	Reference No.	Dated
(i)	KSPPL/KOPPAL/CEA/PTCC/WIND/02	04.04.2024
(ii)	BSNL: SR-PTCC/SKT6011/2	05.07.2024
(iii)	South Western Railway: SG/SWR/PTCC/KNK1109/2776	22.08.2024
(iv)	Defense: B/46937/Sigs 7(b)/3852	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.

This issues with the approval of competent authority.

Encl.: As above

Deputy Director

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-1109			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. 2 WTGs comprising of 07 Nos. of 33 kV Unit substation of M/s KSPPL at Alwandi village, Koppal			Total Length : 15.14 km		
			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/SKT6011/2 Date: 05.07.2024					
1	Alwandi TE to Bus Stand road				IV less than 430 V
2	Betagera TE to Main Circle				IV less than 430 V

Directorate General of Signals

Signals - 7

General Staff Branch

Integrated HQ of MoD, (Army)

DHQ PO, New Delhi - 110011

RNK-1109


B/46937/Sigs 7(b)/3852

Jun 2024

Kleio Solar Power Private Ltd
9th Floor, My Home Twitza, Plot No. 30/A
TSIIC 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#2 WTGS COMPRISING OF 07 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/02 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/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

- for information

Central Electricity Authority

PCD Division

Diary No. 694

Date 24/6/24