



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-1102		
Induced Voltage (IV) Calculation for PTCC proposal of 33 kV XLPE AL, Ar UG cable (3Cx300 sq. mm & 3Cx500 sq mm) from proposed 220/33 kV 153.6 MW Hybrid Power Project PSS of M/s KSPPL at Alwandi village, Koppal to proposed solar Feeder No. 1 comprising of 02 No. of 0.66-0.66/33 kV IDT substation (Block 1 & 2) of M/s KSPPL at Alwandi village, Koppal (Length: 1.4895 km)		
S. No	Reference No.	Dated
(i)	KSPPL/KOPPAL/CEA/PTCC/SOLAR/01	04.04.2024
(ii)	BSNL: SR-PTCC/SKT5982/2	02.07.2024
(iii)	South Western Railway: SG/SWR/PTCC/KNK1102/2769	22.08.2024
(iv)	Defense: B/46937/Sigs 7(b)/3856	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

0.66-0.66/33 kV IDT substation (Block 1 & 2)	11.4	25	0.0299	8	2	NA	NA
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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-1102					
Name of the Power line: 33 kV XLPE AL, Ar UG cable (3Cx300 sq. mm & 3Cx500 sq mm) from proposed 220/33 kV 153.6 MW Hybrid Power Project PSS of M/s KSPPL at Alwandi village, Koppal to proposed solar Feeder No. 1 comprising of 02 No. of 0.66-0.66/33 kV IDT substation (Block 1 & 2) of M/s KSPPL at Alwandi village, Koppal			Map Scale : 1 cm= 500 m		
			Total Length : 1.4895 km		
			S.R. Value : 2000 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/SKT5982/2 Date: 02.07.2024					
1	Alwandi TE to Bus Stand road	Out of parallelism			

B/46937/Sigs 7(b)/3856

Jun 2024

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

PTCC PROPOSAL FOR CONSTRUCTION OF 33KV XLPE,AL,AR CABLES (3CX 300SQ MM & 3CX500 SQ MM) THROUGH UNDERGROUND FROM PROPOSED 33/220KV 153.6MW HYBRID POWER PROJECT POLLING SUBSTATION OF M/S KLEIO SOLAR POWER PVT LTD AT ALWANDI VILLAGE IN KOPPAL TALUK & DISTRICT TO PROPOSED SOLAR FD#1 INVERTER DUTY TRANSFORMERS COMPRISING OF 02 NOS OF 0.66-0.66/33KV INVERTER DUTY TRANSFORMERS (BLOCK-1 & 2) SUBSTATION OF M/S KLEIO SOLAR POWER PVT LTD AT ALWANDI VILLAGE IN KOPPAL TALUK & DISTRICT, KARNATKA

1. Refer your letter No KSPPL/KOPPAL/CEA/PTCC/SOLAR/01 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. 62

Date: 24/6/24

Sh. Anand (DD)
 25/6