



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**

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<b>CEA Case No. : KNK-1101</b>		
<b>Induced Voltage (IV) calculation for PTCC proposal of 220 kV S/C line on D/C towers from 400/220/33 kV PSS at Firozabad, Kalaburgi to proposed 220/33 kV 230 MW Solar power S/s of M/s Avaada MHClean Pvt. Ltd at Hungunto village, Gulbarga (Length: 10.994 Kms) - regd.</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	CEE/SLDC/PTCC/F-3717/9438-46	19.03.2024
(ii)	BSNL: SR-PTCC/SKT5789/2	06.05.2024
(iii)	Central Railway: N.153/PTCC/220kV/KAR-119	22.04.2024
(iv)	Defense: B/46937/Sigs 7(b)/3823	04.06.2024

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on communication circuits of BSNL and Central Railway with respect to details furnished vide above reference (ii) and (iii) respectively have been computed. The voltage likely to be induced on paralleling communication cables of BSNL and Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I and Annexure-II respectively. The screening factors as applicable have been considered. DG Signals, MoD have issued No Objection Certificate (NOC) for charging of the line vide reference (iv) (Annexure-III).

EPR zone for the proposed substation is mentioned below:

Name of the proposed Substation	Half diagonal distance, D/2 (mts)	Fault Current I (KA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
220/33 kV 230 MW Solar power S/s of M/s Avaada MHClean Pvt. Ltd at Hungunto village, Gulbarga	72.8	0.2	35	1112	702	NA	NA

As per the details submitted by BSNL vide reference (ii) above, no telephone exchanges are falling in the EPR zone of the proposed substation.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

**Chief Engineer**

**To,**

1.	Divisional Engineer (PTCC), Southern Zone	O/o CGM, QA&I 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.	GM (S&T)	Central Railway, Office of PCSTE, 3 <sup>rd</sup> Floor, Annex building, CSMT Mumbai – 400 001	
3.	Chief Engineer, Electricity	KPTCL, State Load Despatch Centre, #28, R.C. Cross Road, Bangalore - 560009	Copy for information

**ANNEXURE-I**

<b>CEA Case No.: KNK-1101</b>			<b>Map Scale : 1 cm= 500 m</b>		
<b>Name of the Power line:</b> 220 kV S/C line on D/C towers from 400/220/33 kV PSS at Firozabad, Kalaburgi to proposed 220/33 kV 230 MW Solar power S/s of M/s Avaada MHClean Pvt. Ltd at Hungunto village, Gulbarga			<b>Total Length : 10.994 km</b>		
			<b>S.R. Value : 20000 Ohm-cm</b>		
<b>S.No.</b>	<b>Telecom. Details</b>	<b>Length of Parallelism in Km.</b>	<b>Mutual Coupling in Ohms.</b>	<b>Effective Fault current in Amps.</b>	<b>I.V in Volts.</b>
<b>BSNL: SR-PTCC/SKT5789/2 Date: 06.05.2024</b>					
<b>I</b>	<b>Shahabad Telephone Exchange</b>				
1	Exchange to Shantnagar (A-A1)	Out of parallelism			
2	Exchange to Wadi Cross (A-A2)				
3	Exchange to ABL Gate (A-A3)				
4	Shantnagar to ABL Society (A-A4)				
5	Shantnagar to Bhankur cross (A-A5)				

**ANNEXURE-II**

<b>CEA Case No.: KNK-1101</b>			<b>Map Scale : 1 cm= 500 m</b>		
<b>Name of the Power line:</b> 220 kV S/C line on D/C towers from 400/220/33 kV PSS at Firozabad, Kalaburgi to proposed 220/33 kV 230 MW Solar power S/s of M/s Avaada MHClean Pvt. Ltd at Hungunto village, Gulbarga			<b>Total Length : 10.994 km</b>		
			<b>S.R. Value : 20000 Ohm-cm</b>		
<b>S.No.</b>	<b>Telecom. Details</b>	<b>Length of Parallelism in Km.</b>	<b>Mutual Coupling in Ohms.</b>	<b>Effective Fault current in Amps.</b>	<b>I.V in Volts.</b>
<b>Central Railway: N.153/PTCC/220kV/KAR-119 Date: 22.04.2024</b>					
1	Martur to Shahbad		Out of parallelism		
2	Shahbad to Wadi		Out of parallelism		

E-mail: webstar@nic.in

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

KNK-1101

B/46937/Sigs 7(b)/3823

04 Jun 2024

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 400/220/33KV POLLING STATION AT KALABURAGI NEAR  
 FIROZABAD VILLAGE TO THE PROPOSED 220/33KV ON 230 MW SOLAR  
 POWER SWITCHYARD SS OF M/S AVAADA MHCLEAN PVT LTD AT  
 HUNGUNTO VILLGAGE IN GULBURGA TALUK & DISTRICT**

1. Refer your letter No CEE/SLDC/PTCC/F-3717/9438-46 dt 19 Mar 2024 (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.

(Puneet Lakhanpal)  
 Lieutenant Colonel  
 General Staff Officer Grade 1 (Communication)  
 for Additional Director General (Telecommunication)

**Enclosures** : As above

**Copy to :-**

Chief Engineer, PSCD Division  
 Central Electricity Authority  
 Room No 702 (North Wing)  
 Sewa Bhawan, R.K. Puram, Sector-1  
 New Delhi-110066

- 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. 625

Date: 04/06/2024