



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-1184</b>		
<b>Induced Voltage (IV) Calculation for PTCC proposal of 33 kV S/C line from tapping point near existing WTG Location No. BE-08 to Feeder-7 connecting 06 Nos. WTGs with 06x3600 kVA 33/0.95 kV Unit Transformers of M/s Zenataris Renewable Energy Private Limited (Length: 13.222 kms)</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	ZREPL/BALLARI/CEA/PTCC/WIND/07-Tap	07.05.2025
(ii)	BSNL: SR-PTCC/KNK-1184/2	24.07.2025

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 under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered.

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
0.8/33 kV IDTs of 50 MW Solar Power Project near Byletumbarraguddi village	5.54	25	0.814	257	168	11	6

As per the details submitted by BSNL, No telephone exchanges are falling within the EPR zone of proposed substation.

Taking the above into consideration, the values of Induced Voltages may be examined, and further information may be sent to the undersigned for issuance of Route Approval Certificate.

Encl.: As above

**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.	M/s Zenataris Renewable Energy Private Limited	Plot No. N46, House No. 4-9-10, HMT Nagar, Hyderabad – 500 076	Copy for information

**ANNEXURE-I**

<b>CEA Case No.: KNK-1183</b>			<b>Map Scale : 1 cm= 500 m</b>		
<b>Name of the Power line:</b> 33 kV S/C line from tapping point near existing WTG Location No. BE-08 to Feeder-7 connecting 06 Nos. WTGs with 06x3600 kVA 33/0.95 kV Unit Transformers of M/s Zenataris Renewable Energy Private Limited			<b>Total Length : 13.222 km</b>		
			<b>S.R. Value : 30000 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/KNK-1184/2 Date: 24.07.2025</b>					
1	CJ Halli to MB Ayyanahalli (A-A1)		IV less than 430 V		
2	CJ Halli to Makanaduku (A-A2)		IV less than 430 V		
3	Banvikal to Sooladahalli (B-B1)		IV less than 430 V		
4	Harakabhavi to Belekatta (C-C1)		IV less than 430 V		
5	Harakabhavi to Santanahalli (C-C2)		Out of parallelism		