

I/32808/2024



सत्यमेव जयते

**भारत सरकार**  
**Government of India**  
**विद्युत मंत्रालय**  
**Ministry of Power**  
**केन्द्रीय विद्युत प्राधिकरण**  
**Central Electricity Authority**  
**विद्युत संचार विकास प्रभाग**  
**Power Communication Development Division**

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CEA Case No. : TN-732		
<b>Induced Voltage (IV) Calculation for PTCC proposal for 33 kV D/C OH line for Feeder No. 1 &amp; 2 on RSJ Pole with AL59 Panther conductor and AAAC Dog conductor from 220/33 kV JSW Tuticorin – B S/s at Savlaperi village, to proposed 33 kV JSW Wind Power unit substation tapping point TUT-293 (Length: 24.70 km)</b>		
S. No	Reference No.	Dated
(i)	JSWREL/33kV-PTCC/DC-01	15.04.2023
(ii)	BSNL: SR-PTCC/STN 5069/05	16.09.2023
(iii)	Southern Railway: W.384/3/6/23(TN)	12.07.2023
(iv)	Defense: B/46937/Sigs 7(b)/3314	04.07.2023

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 reference (ii) has been computed. The voltage likely to be induced on paralleling communication circuits of BSNL under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered.

GM (S&T), Southern Railway vide above reference (iii) and DG Signals, MoD, vide above reference (iv) (Annexure-II) have issued their No Objection certificate (NOC) for charging of the line.

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
230/33 kV JSW Tuticorin B Wind Power PSS-B of M/s JSW Renew Energy Ltd at Savlaperi village	82.54	35	0.0344	149	70	NA	NA
33 kV Wind Power unit substation	14	13.374	0.391	156	99	NA	NA

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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 regarding issuance of PTCC approval for the subject cited transmission line may be taken under intimation to this office.

Encl.: As above

**Director**

**To,**

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	M/s JSW Renew Energy Limited	JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai – 400 051	For information

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ANNEXURE-I

<b>CEA Case No.:</b> TN-732  <b>Name of the Power line:</b> 33 kV D/C OH line for Feeder No. 1 & 2 on RSJ Pole with AL59 Panther conductor and AAAC Dog conductor from 220/33 kV JSW Tuticorin – B S/s at Savlaperi village, to proposed 33 kV JSW Wind Power unit substation tapping point TUT-293			<b>Map Scale</b> : 1 cm= 500 m  <b>Total Length</b> : 24.7 km  <b>S.R. Value</b> : 15000 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: SR-PTCC/STN 5069/05 Dated: 16.09.2023					
<b>KAYATHAR TELEPHONE EXCHANGE</b>					
1	EXGE to DP.0003				
2	EXGE to DP.0006				
3	EXGE to DP.0012				
4	EXGE to DP.0023				
5	EXGE to P.22 to DP.2208				
6	EXGE to P.22 to DP.2219				
7	EXGE to P.22 to DP.2233				
8	EXGE to P.22 to DP.2247				
9	EXGE to P.25 to DP.2503				
10	EXGE to P.25 to DP.2522				
11	EXGE to P.25 to DP.2539				
12	EXGE to P.25 to DP.2549				
13	EXGE to P.25 to DP.2533				
Out of parallelism					

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

TN-732

B/46937/Sigs 7(b)/3314/

04 Jul 2023

JSW Renew Energy Limited  
Regd. Office: JSW Centre, Bandra Kurla Complex  
Bandra (East), Mumbai-400051

**PTCC PROPOSAL FOR CONSTRUCTION OF PROPOSED 33KV DOUBLE  
CIRCUIT LINE FOR FEEDER NO-DC: 01&02 FROM PROPOSED M/S JSW  
RENEW ENERGY LTD FOR TOTAL CONNECTIVITY 540MW AT PART OF  
PROJECT 330MW TUTICORIN-I 230/33KV POOLING SUBSTATIONS WIND  
POWER PROJECT AT THOOTHUKUDI DISTRICT**

1. Refer your letter No JSWREL/33kV-PTCC/DC-01 dt 15 Apr 2023 (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.

(SP Choyal)  
Lt Col  
GSO 1 (Coord)  
for ADG T

**Enclosures** : As above

**Copy to :-**

The Divisional Engineer (PTCC)  
'D' Wing, 3<sup>rd</sup> Floor, Admn Bdg  
Telecom Complex,  
Juhu Tara Road,  
Santracruz West, Mumbai – 400054

The Director (PTCC), CEA  
Power Communication Development Division  
NRPC Complex, 18-A Shaheed Jeet Singh Marg  
Katwaria Sarai, New Delhi – 110016

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. 66/P  
Date 26/7

Sh. Akshay, DD  
27/7

PPU. 31/74  
31/07  
Sh. Parateek