



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-720		
<b>Induced Voltage (IV) Calculation for PTCC proposal for 33 kV SC OH line for Feeder No. 2 on RSJ Pole with AL59 panther conductor AAAC Dog conductor from 230/33 kV JSW Tuticorin – B S/s at Arunkulam village to proposed 33 kV Wind Power unit substation tapping point TUT-624 (Length: 19.6 km)- regd.</b>		
S. No	Reference No.	Dated
(i)	JSWREL/33kV-PTCC/SC-02	04.03.2023
(ii)	BSNL: SR-PTCC/STN 5076/05	21.07.2023
(iii)	Southern Railway: W.384/3/6/27(TN)	13.07.2023
(iv)	Defense: B/46937/Sigs 7(b)/3280	11.08.2023

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 Arungulam village, Vilathikulam	92.84	42	0.0985	800	498	NA	NA
33 kV Wind Power unit substation	8.93	18.52	0.334	120	76	NA	NA

I/30823/2023

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

emt  
9.10.2023  
(म.ज.व.)  
Director

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	With a request to provide details of Telecom assets/ NOC at the earliest for IV calculation and issuance of final RAC.
2.	M/s JSW Renew Energy Limited	JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai – 400 051	For information

ANNEXURE-I

<b>CEA Case No.:</b> TN-720 <b>Name of the Power line:</b> 400 KV DC line with TWIN Moose conductor and 230 KV DC line with Zebra conductor in Multi Circuit towers from Manali 400 KV GIS SS to Puliyanthope 400 KV GIS SS.			<b>Map Scale</b> : 1 cm= 500 m <b>Total Length</b> : 19.6 km <b>S.R. Value</b> : 20000 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 5076/05 Dated: 21.07.2023

**ETTAYAPURAM TELEPHONE EXCHANGE**

1	EXCHANGE to DP.0001
2	EXCHANGE to DP.0002
3	EXCHANGE to DP.0004
4	EXCHANGE to DP.0012
5	EXCHANGE to P.21 to DP.2103
6	EXCHANGE to P.22 to DP.2214
7	EXCHANGE to P.22 to DP.2216
8	EXCHANGE to 2,22 to DP.2218
9	EXCHANGE to P.22 to DP.2220
10	EXCHANGE to P.23 to DP.2306
11	EXCHANGE to P.23 to DP.2307
12	EXCHANGE to P.23 to DP.2309
13	EXCHANGE to P.23 to DP.2312
14	EXCHANGE to P.23 to DP.2315
15	EXCHANGE to P.23 to DP.2316
16	EXCHANGE to P.23 to DP.2318
17	EXCHANGE to P.23 to DP.2319

IV Less than 430 V

18	EXCHANGE to P.24 to DP.2420
19	EXCHANGE to P.24 to DP.2431
20	EXCHANGE to P.24 to DP.2432
21	EXCHANGE to P.25 to DP.2519
22	EXCHANGE to P.25 to DP.2520
23	EXCHANGE to P.25 to DP.2521A
24	EXCHANGE to P.25 to DP.2523A
25	EXCHANGE to P.25 to DP.2525
26	EXCHANGE to P.25 to DP.2526A
27	EXCHANGE to P.25 to DP.2528
28	EXCHANGE to P.25 to DP.2530
29	EXCHANGE to P.25 to DP.2531A
30	EXCHANGE to P.25 to DP.2539
31	EXCHANGE to P.25 to DP.2540
32	EXCHANGE to P.25 to DP.2541
33	EXCHANGE to P.25 to DP.2542
34	EXCHANGE to P.25 to DP.2543A
35	EXCHANGE to P.25 to DP.2543B
36	EXCHANGE to P.21 to DP.2122

IV Less than 430 V

**KOVILPATTI TELEPHONE EXCHANGE**

1	EXCHANGE to P.56 to DP.5603	IV Less than 430 V
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I/30823/2023

File No. CEA-PS-17-11(14)/38/2023-PCD Division General or Signals

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

TN-

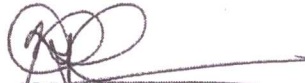
B/46937/Sigs 7(b)/3280/

|| Aug 2023

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

**PTCC PROPOSAL FOR CONSTRUCTION OF PROPOSED 33KV SINGLE  
CIRCUIT LINE FOR FEEDER NO-2 FROM PROPOSED M/S JSW RENEW  
ENERGY LTD FOR TOTAL CONNECTIVITY 540MW AT PART OF PROJECT  
210MW TUTICORIN II 230/33KV POOLING SUBSTATIONS WIND POWER  
PROJECT AT THOOTHUKUDI DISTRICT**

1. Refer your letter No JSWREL/33kv-PTCC/SC-02 dt 04 Mar 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)  
Lieutenant Colonel  
General Staff Officer Grade 1 (Communication)  
for Additional Director General (Telecommunication)

**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

- for information

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

Central Electricity Authority  
PCD Division

Diary No. 787  
Date 29/8/23

Dy. (PCD)  
29/8

Sh. Akshay DD  
29/8

PPU. 312/24  
01/09  
Sh. Prateek