

I/26739/2023



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-705		
PTCC approval for 33 kV DC OH line for feeder no. 1 & 2 from 230/33 kV JSW Villathikulam S/S at Arunkulam Village to proposed JSW Wind 33 kV Wind Power Unit S/S of M/s JSW Future Energy Ltd at Arunkulam village - regd.		
S. No	Reference No.	Dated
(i)	M/s JSWFEL: JSWFEL/33PTCC/DC-01	29.08.2022
(ii)	BSNL: SR-PTCC/STN 1726-1728/08	11.02.2023
(iii)	Southern Railway: W.384/3/6/6(TN) received via JSWFEL email dated 20.02.2023	23.12.2022
(iv)	Defense: B/46937/Sigs 7(b)/3121	03.01.2023

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 references (ii) have 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. Vide reference (iii) above, Southern Railway has issued No Objection Certificate (NOC). Vide reference (iv) above, DG Signals, MoD has issued No Objection Certificate (NOC) (enclosed as Annexure-II).

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
230/33 kV JSW Villathikulam	84.85	31.255	0.1084	583.69	357.42	NIL	NIL
33 kV Wind Power Unit s/s	10.61	10.2	0.334	73.42	44.98	NIL	NIL

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

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**

I/26739/2023

**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 Future Energy Ltd	JSW Centre, Bandra Kurla Complex, Bandra (East), Mumbai - 400051	Copy for information

I/26739/2023

ANNEXURE-I

CEA Case No.: TN-705		Map Scale : 1 cm= 500 m			
Name of the Power line: 33 kV DC OH line for feeder no. 1 & 2 from 230/33 kV JSW Villathikulam S/S at Arunkulam Village to proposed JSW Wind 33 kV Wind Power Unit S/S of M/s JSW Future Energy Ltd at Arunkulam village		Total Length : 5.35 km			
		S.R. Value : 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.
<b>BSNL Letter No: SR-PTCC/STN 1726-1728/08 Date: 11.02.2023</b>					
<b>I VKM</b>	<b>VILATHIKULAM TELEPHONE EXCHANGE</b>				
1	EXGE TO P.26 TO DP 2603				IV less than 430 V
2	EXGE TO P.26 TO DP 2609				
3	EXGE TO P.26 TO DP 2610				
4	EXGE TO P.26 TO DP 2611				
5	EXGE TO P.26 TO DP 2612				
6	EXGE TO P.26 TO DP 2622A				
7	EXGE TO P.26 TO DP 2622B				
8	EXGE TO P.26 TO DP 2623				
9	EXGE TO P.26 TO DP 2628				
10	EXGE TO P.26 TO DP 2629				
11	EXGE TO P.26 TO DP 2631A				
12	EXGE TO P.26 TO DP 2631B				
13	EXGE TO P.26 TO DP 2632A				
14	EXGE TO P.26 TO DP 2635A				
15	EXGE TO P.26 TO DP 2635B				
16	EXGE TO P.26 TO DP 2636A				
17	EXGE TO P.26 TO DP 2637				
18	EXGE TO P.26 TO DP 2638				
<b>EPV</b>	<b>EPPODUMVENDRAN TELEPHONE EXCHANGE</b>				
1	EXGE TO DP 0001				IV less than 430 V
2	EXGE TO DP 0010				
3	EXGE TO DP 0011				
4	EXGE TO DP 0009				
5	EXGE TO DP 0008				
6	EXGE TO DP 0016				
7	EXGE TO DP 0026				
8	EXGE TO DP 0045				
9	EXGE TO DP 0046				
10	EXGE TO DP 0047B				
11	EXGE TO DP 0048				

26739/2023

TIN-705

Tele : 23019746

Annexure-II

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

B/46937/Sigs 7(b)/3121/

03 Jan 2023

JSW Future Energy Limited  
(formerly JSW Solar Limited)  
JSW Centre, Bandra Kurla Complex  
Bandra (East), Mumbai-400051

**PTCC PROPOSAL FOR CONSTRUCTION OF PROPOSED 33KV D/C LINE FOR FEEDER NO.-1&2 FROM PROPOSED M/S JSW FUTURE ENERGY LTD TO PROPOSED FOUR POLE STRUCTURE FOR 300MW WIND POWER PROJECT AT ARUNKULAM VILLAGE, THOOTHUKUDI DISTRICT.**

1. Refer your letter No JSWFEL/33PTCC/DC-01 dt 08 Aug 2022 (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.

(SK Sharma)

Lt Col  
GSO 1 (Comn)  
for Offg ADG T

**Enclosures** : As above**Copy to :-**

The Divisional Engineer (PTCC)  
'D' Wing, 3<sup>rd</sup> Floor, Admn Bdg  
Telecom Complex,  
Juhu Para Road,  
Sahtracruz 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/c PGM (North), QA & Inspection Circle,  
D-Tax Building, Eastern Court, Janpath  
New Delhi-110001

