

I/26825/2023



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

CEA Case No. : TN-707		
PTCC approval for 33 kV DC OH line for feeder no. 5 & 6 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-03	29.08.2022
(ii)	BSNL: SR-PTCC/STN 1726-1728/08	11.02.2023
(iii)	Southern Railway: W.384/3/6/8(TN) received via JSWFEL email dated 20.02.2023	23.12.2022
(iv)	Defense: B/46937/Sigs 7(b)/3126	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

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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

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ANNEXURE-I

CEA Case No.: TN-707			Map Scale : 1 cm= 500 m		
Name of the Power line: 33 kV DC OH line for feeder no. 5 & 6 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 : 4.51 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.

BSNL Letter No: SR-PTCC/STN 1726-1728/08 Date: 11.02.2023

I VKM	VILATHIKULAM EXCHANGE	TELEPHONE			
1	EXGE TO P.21 TO DP 2102				
	EXGE TO P.21 TO DP 2104				
2	EXGE TO P.22 TO DP 2210				
3	EXGE TO P.22 TO DP 2211				
4	EXGE TO P.22 TO DP 2212				
5	EXGE TO P.23 TO DP 2307				
16	EXGE TO P.23 TO DP 2308				
17	EXGE TO P.23 TO DP 2309				
18	EXGE TO P.23 TO DP 2310				
19	EXGE TO P.23 TO DP 2311				
20	EXGE TO P.23 TO DP 2312				
6	EXGE TO P.24 TO DP 2401				
7	EXGE TO P.24 TO DP 2404				
8	EXGE TO P.25 TO DP 2501				
9	EXGE TO P.25 TO DP 2507				
10	EXGE TO P.26 TO DP 2603				
11	EXGE TO P.26 TO DP 2604				
12	EXGE TO P.26 TO DP 2605				
13	EXGE TO P.26 TO DP 2606				
14	EXGE TO P.26 TO DP 2607				
15	EXGE TO P.26 TO DP 2608				
16	EXGE TO P.26 TO DP 2609				
17	EXGE TO P.26 TO DP 2610				
18	EXGE TO P.26 TO DP 2611				
19	EXGE TO P.26 TO DP 2612				
20	EXGE TO P.26 TO DP 2622A				
21	EXGE TO P.26 TO DP 2622B				
22	EXGE TO P.26 TO DP 2623				
23	EXGE TO P.26 TO DP 2628				
24	EXGE TO P.26 TO DP 2629				
25	EXGE TO P.26 TO DP 2631A				
26	EXGE TO P.26 TO DP 2631B				

IV less than 430 V

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27	EXGE TO P.26 TO DP 2632A	IV less than 430 V			
28	EXGE TO P.26 TO DP 2635A				
29	EXGE TO P.26 TO DP 2635B				
30	EXGE TO P.26 TO DP 2636A				
31	EXGE TO P.26 TO DP 2637				
32	EXGE TO P.26 TO DP 2638				
EPV	EPPODUMVENDRAN	TELEPHONE			
	EXCHANGE				
1	EXGE TO DP 0010	IV less than 430 V			
2	EXGE TO DP 0011				
3	EXGE TO DP 0008				
4	EXGE TO DP 0026				
5	EXGE TO DP 0046				
6	EXGE TO DP 0047B				
7	EXGE TO DP 0048				
8	EXGE TO DP 0045				

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Tele : 23019746

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


B/46937/Sigs 7(b)/3126/

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.-5&6 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-03 dt 08 Aug 2022.
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, 3rd Floor, Admn Bdg
 Telecom Complex,
 Juhu Tara Road,
 Santacruz 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

