

I/26855/2023



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

CEA Case No. : TN-710		
PTCC approval for 33 kV SC OH line for feeder no. 3 from 230/33 kV JSW Villathikulam S/S at Arunkulam Village DC tapping 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/SC-03	29.08.2022
(ii)	BSNL: SR-PTCC/STN 1729-1734/06	06.01.2023
(iii)	Southern Railway: W.384/3/6/11(TN) received via JSWFEL email dated 20.02.2023	23.12.2022
(iv)	Defense: B/46937/Sigs 7(b)/3122	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/26855/2023

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/26855/2023

ANNEXURE-I

CEA Case No.: TN-710		Map Scale : 1 cm= 500 m			
Name of the Power line: 33 kV SC OH line for feeder no. 3 from 230/33 kV JSW Villathikulam S/S at Arunkulam Village DC tapping to proposed JSW Wind 33 kV Wind Power Unit S/S of M/s JSW Future Energy Ltd at Arunkulam village		Total Length : 19.30 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 1729-1734/06 Date: 06.01.2023					
I VKM	VILATHIKULAM TELEPHONE EXCHANGE				
1	EXGE TO P.26 TO DP 2622A	IV less than 430 V			
2	EXGE TO P.26 TO DP 2622B				
3	EXGE TO P.26 TO DP 2623				
4	EXGE TO P.26 TO DP 2628				
5	EXGE TO P.26 TO DP 2629				
6	EXGE TO P.26 TO DP 2635A				
7	EXGE TO P.26 TO DP 2635B				
8	EXGE TO P.26 TO DP 2637				
9	EXGE TO P.26 TO DP 2638				
KUL	KULATHUR TELEPHONE EXCHANGE				
1	EXGE TO DP 0002	IV less than 430 V			
2	EXGE TO DP 0003				
3	EXGE TO DP 0005				
4	EXGE TO DP 0008				
5	EXGE TO DP 0010				
6	EXGE TO DP 0011				
7	EXGE TO DP 0016				
8	EXGE TO DP 0022				
9	EXGE TO DP 0030				
10	EXGE P.23 TO DP 2307A				
11	EXGE P.23 TO DP 2309A				
12	EXGE P.24 TO DP 2404				
13	EXGE P.24 TO DP 2406				
14	EXGE P.24 TO DP 2410				
15	EXGE P.24 TO DP 2411				
16	EXGE P.24 TO DP 2412				

I/26855/2023

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)/3122/

05 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.-3 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/SC-03 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, 3rd 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

