

I/26824/2023



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-708		
PTCC approval for 33 kV SC OH line for feeder no. 1 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-01	29.08.2022
(ii)	BSNL: SR-PTCC/STN 1729-1734/06	06.01.2023
(iii)	Southern Railway: W.384/3/6/9(TN) received via JSWFEL email dated 20.02.2023	23.12.2022
(iv)	Defense: B/46937/Sigs 7(b)/3119	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-708		Map Scale : 1 cm= 500 m			
Name of the Power line: 33 kV SC OH line for feeder no. 1 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 : 26.02 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 EPR	ETTAYAPURAM TELEPHONE EXCHANGE				
1	EXGE TO INNER ZONE				IV less than 430 V
2	EXGE TO P.25 TO DP 2521A	3.5	0.0089	8876	79
3	EXGE TO P.25 TO DP 2523A				IV less than 430 V
4	EXGE TO P.25 TO DP 2525				
5	EXGE TO P.25 TO DP 2526A				
6	EXGE TO P.25 TO DP 2528				
7	EXGE TO P.25 TO DP 2530				
8	EXGE TO P.25 TO DP 2531A				
9	EXGE TO P.25 TO DP 2539				
10	EXGE TO P.25 TO DP 2540				
11	EXGE TO P.25 TO DP 2541A				
12	EXGE TO P.25 TO DP 2542				
13	EXGE TO P.25 TO DP 2543A				
EPV	EPPODUMVENDRAN TELEPHONE EXCHANGE				
1	EXGE TO DP 0001				IV less than 430 V
2	EXGE TO DP 0009				
3	EXGE TO DP 0010				
4	EXGE TO DP 0011				
5	EXGE TO DP 0008				
6	EXGE TO DP 0016				
7	EXGE TO DP 0026				
8	EXGE TO DP 0027A				
9	EXGE TO DP 0046				
10	EXGE TO DP 0047B				
11	EXGE TO DP 0048	2.0	0.0040	23904	96
12	EXGE TO DP 0051				IV less than 430 V
13	EXGE TO DP 0045				

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Annexure-II

Tele : 23019746

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

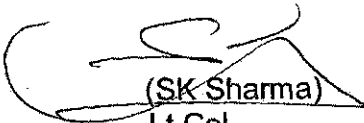
B/46937/Sigs 7(b)/3119/

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 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-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, 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

TN - 705 to TN - 713
A.D - PB Examina & pay
16/1/23

