

I/34749/2024



सत्यमेव जयते

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

CEA Case No.: TN-747		
Induced Voltage (IV) Calculation for PTCC proposal of 33 kV S/C Feeder-03 on RSJ pole from 220/33 kV JSW Dharapuram B Substations at Peramium Village to JSW Wind Power Unit Substations – DHP 027 (Length: 30.5 kms)		
S. No	Reference No.	Dated
(i)	JSWNET/33kV PTCC-150 MW/DPM/SC-3	09.02.2024
(ii)	JSW E-mail	28.03.2024
(iii)	BSNL: SR-PTCC/STN 5603/04	15.03.2024
(iv)	Southern Railway: W.384/3/6/39(TN)	11.03.2024

The PTCC proposal submitted vide reference (i) has been examined. BSNL vide reference (iii) has stated that “ No telecom lines/ cables or assets are existing or proposed within 6 months near 8 km boundary of proposed transmission line”. Southern Railway vide reference (iv) has 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
220/33 kV JSW Dharapuram B Substations at Peramium Village	83.33	20	0.625	2338	1519	65	21
33/0.69 kV Wind Power unit substation	14.7	9.96	0.592	187	119	NA	NA

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

Telecommunication details from DG Signals, MoD are awaited however, vide reference (ii) above, M/s JSWNET have informed that all construction related work of the transmission line has completed and the line is awaiting charging due to want of PTCC approval. So as to charge the subject cited transmission line as per schedule, M/s JSWNET has requested for issuance of provisional PTCC

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clearance and has submitted an undertaking that in case of any impact on telecom asset/ personnel of Defense due to charging of this transmission line, JSWNEEL shall take all remedial action.

Taking above into consideration, necessary action for issuance of provisional PTCC route approval may be taken under intimation to this office. LF induction on telecommunication circuits of Defense, will be communicated after the receipt of details from DG Signals, MoD.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Southern Zone	O/o Chief General Manager, Core Network Transmission- South, No.11, Link Road, Ganapathy Colony, Guindy Industrial Estate, Guindy, Chennai.600 032.	
2.	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105	With a request to provide details of Telecom assets/ NOC at the earliest for IV calculation and issuance of final RAC.
3.	M/s JSW Neo Energy Limited	JSW Centre, Bandra Kurla Complex, bandra (East), Mumbai – 400 051	For information