

I/28218/2023



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



ONE EARTH - ONE FAMILY - ONE FUTURE

CEA Case No. : KNK-1026		
PTCC approval for 400 kV D/C line from 400 kV Pooling S/s of JSW Renewable Energy at Gouripura to 400 kV Thimlapura S/s (22 km)		
S. No	Reference No.	Dated
(i)	JSW Letter	19.12.2022
(ii)	BSNL: SR-PTCC/SKT4518/08	27.04.2023
(iii)	South Western Railway: SG/SWR/PTCC/JSW/2483	21.02.2023
(iv)	Defense: B/46937/Sigs 7(b)/2991	08.12.2022

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on communication circuits of BSNL and South Western Railway with respect to details furnished vide above references (ii) and (iii) respectively have been computed. The voltage likely to be induced on paralleling communication cables of BSNL and South Western Railway under Single Line to Ground fault condition are enclosed at Annexure-I and Annexure-II respectively. The screening factors as applicable have been considered. Vide reference (iv) above, DG Signals, MoD has issued No Objection Certificate (NOC) (enclosed as Annexure-III).

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
400 kV Pooling S/s, Gouripura	115	30	0.4227	3276	2129	93	31

As per the details submitted by BSNL vide reference (ii) above, no telephone exchange is 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

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	Principal Chief Signal & Telecom Engineer	South Western Railway, Rail Soudha, Gadag road, Hubballi - 20	
3.	JSW Renewable Energy (Vijayanagar) Ltd.	P.O. 9, Torangallu, Ballari - 583 123	Copy for information

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ANNEXURE-I

CEA Case No.: KNK-1026			Map Scale : 1 cm= 500 m		
Name of the Power line: 400 kV D/C line from 400 kV Pooling S/s of JSW Renewable Energy at Gouripura to 400 kV Thimlapura S/s			Total Length : 22.0 km		
			S.R. Value : 25000 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/SKT4518/08 Date: 27.04.2023					
I	Chornur Telephone Exchange				
1	Exchange to Gollarhatti (A-A1)		Out of parallelism		
2	Exchange to Market route (A-A2)		Out of parallelism		
3	Exchange to Primary Health Care (A-A3)		Out of parallelism		
4	Exchange to Upparhalli route (A-A4)		Out of parallelism		
II	Rampura Telephone Exchange				
1	Exchange to Santegudda BTS (R-R1)		IV less than 430 V		

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ANNEXURE-II

CEA Case No.: KNK-1026 Name of the Power line: 400 kV D/C line from 400 kV Pooling S/s of JSW Renewable Energy at Gouripura to 400 kV Thimlapura S/s			Map Scale : 1 cm= 500 m Total Length : 22.0 km S.R. Value : 25000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
South Western Railway: SG/SWR/PTCC/JSW/2483 Date: 21.02.2023					
1	Swamihalli (SMLI) to Yeshwantnagar (YTG)	3.15	0.002266	25596	58

Directorate General of Signals

Signals 7

General Staff Branch

Integrated HQ of MoD, (Army)

DHQ PO, New Delhi – 110011

KNK-1026

B/46937/Sigs 7(b)/2991/

08 Dec 2022

JSW Renewable Energy (Vijayanagar) Ltd
Works: P.O:9, Toranagallu
Distt. Ballari, PIN-583123, Karnataka, India

PTCC PROPOSAL FOR CONSTRUCTION OF DEDICATED 400KV DOUBLE CIRCUIT (16KM) & MULTI CIRCUIT TRANSMISSION LINE (6KM) FROM PROPOSED 600MW WIND 400KV POOLING SUBSTATION OF JSW RENEWABLE ENERGY (VIJAYANAGAR) LIMITED AT GOURIPURA TO EXISTING 400KV SUBSTATION AT 225MW SOLAR, THIMLAPURA BELLARY DIST. AND MAKING LILO ARRANGEMENT FOR EXISTING 400KV TRANSMISSION LINE OF 225MW SOLAR NEAR 225MW SOLAR LINE NEAR THIMLAPURA SUBSTATION

1. Refer your letter No Nil dt 09 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 Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi – 110016

- for information

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

