



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.: KNK-968
PTCC proposal of 400 kV D/C transmission line from 225 MW solar 400 kV Pooling substation of JSW Renewable Energy (Vijayanagar) Limited to existing 400 kV switchyard at JSW Energy Limited, Vijayanagar Bellary District (16.1 km)

Reference:		
S. No.	Reference No.	Dated
(i)	M/s JSW Renewable Energy (Vijayanagar) Ltd Letter	24.07.2021
(ii)	BSNL: SR-PTCC/KNK-3009/07	06.12.2021
(iii)	South Western Railway: SG/SWR/PTCC/JSW-3009/2213	11.11.2021
(iv)	Defense: B/46937/Sigs 7(b)/2505	30.09.2021

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom lines of BSNL and block & telecom circuits of South Western Railway with respect to details furnished vide above reference (ii) and (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom lines of BSNL and block & telecom circuits of 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. The Defense Authority have accorded NOC vide above reference (iv) for the proposed power line (a copy enclosed as Annexure-III).

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

**Encl.:** As above.

Signature Not Verified

Digitally signed by RAGHUVENDRA PRATAP SINGH  
Date: 2021.12.17 11:43:55 IST

Director

m/c

To,			
1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	PCSTE	South Western Railway, Office of PCSTE, Rail Soudha, Gadag Road, Hubballi - 580020	Annex-II only
3.	M/s SW Renewable Energy (Vijayanagar) Ltd	P.O. 9, Toranagallu, Dist. Ballari, Karnataka - 583123	Copy for information

CEA Case No. 2-KNK-968

Annex - II

Case No. KNK-3009		SSA: Ballari			
Name of the power line: PTCC proposal for construction of dedicated 400KV Double Circuit Transmission Line from Proposed 225MW solar 400KV Pooling substation of JSW Renewable Energy (Vijayanagar) Ltd. At Thimlapur to Existing 400KV substation at JSW Energy limited, Vijayanagar, BellaryDist. (By utilizing 7.9KM out of 8.8KM of the existing Mutli-circuit Quadmoose line from 400KV SS of M/S JSW Energy limited to Ballari pooling station)					
Length of Power Line		24.0 Kms (16.1 Kms New line + 7.9Kms existing line)			
<del>SR: 3000</del> ohm-cms		Type of BSNL cable: PIJF			
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
I (A)	Kudithini Telephone Exchange Cables	}	IV less than 430 V		
1	Exge to Kudithini Police Station (A-A1)				
2	Exge to Kudithini ITI College (A-A2)				
II(G)	BTPS Telephone Exchange Cables	}			
1	Exge to Technical Building (B-B1)				
2	Exge to BHEL Office (B-B2)				

*Prateek*

प्रतिष्ठान  
संस्था  
केन्द्रीय विद्युत प्राधिकरण / CEA  
विद्युत मंत्रालय / Ministry of Power  
भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi

Case No.: KNK-968

ANNEXURE - II

Name of the Power Line: 400 kV D/C transmission line from 225 MW solar 400 kV Pooling substation of JSW Renewable Energy (Vijayanagar) Limited to existing 400 kV switchyard at JSW Energy Limited, Vijayanagar Bellary District

Map Scale : 1 cm = 500 m.  
Route Length : 16.1 km (new)  
+7.9 km(existing M/C line)  
Soil Resistivity : 30,000 Ohm-cm

S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
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SOUTH WESTERN RAILWAY					
Ref. No: SG/SWR/PTCC/JSW-3009/2213 dated 11.11.2021					
Affected Blocks & Telecom Circuits Details					
1	Toranagallu - Gadiganuru				
2	Daroji - Toranagallu	0.5	0.0014	14000	20
3	Daroji - Kudutini	1.5	0.0041	12500	51
		4.7	0.0019	9500	18

*Prateek*

प्रतीक श्रीवास्तव/PRATEEK SHRIWASTAVA  
सहायक निदेशक-II / Asst. Director-II  
केन्द्रीय विद्युत आयोग/C.E.A.  
विद्युत मंत्रालय/Ministry of Power  
भारत सरकार/Govt. of India  
नई दिल्ली/New Delhi

Tele : 23019746

*A mex - III*  
Directorate General of Signals  
Signals 7  
General Staff Branch  
Integrated HQ of MoD, (Army)  
DHO PO, New Delhi - 110011


B/46937/Sigs 7(b)/2505/

Sep 2021

✓ JSW Renewable Energy (Majyanagar) Ltd.  
Works, P.O: 9 Toranagallu  
Dist. Ballari, PIN: 583123, Karnataka, India

PTCC PROPOSAL FOR CONSTRUCTION OF 400KV DOUBLE CIRCUIT TWIN  
MOOSE TRANSMISSION LINE FROM 225MW SOLAR 400KV SWITCHYARD AT  
THIMLAPUR TO JSW ENERGY LIMITED, BALLARI

1. Refer your letter No Nil dt 20 Jul 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheets received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

  
(A Rawat)  
Lt Col  
GSO 1 (Comm)  
for SO-in-C

Enclosures : As above

Copy to :-

The Director (PTCC), CEA  
Power Communication Development Division  
NRPC Complex, 18-A Shaheed Jeet Singh Marg  
Kailash Sarai, New Delhi - 110016

for information

The DET (PTCC), Northern Zone  
Old PEM (North), QA & Inspection Circle,  
D-7ax Building, Eastern Court, Janpath  
New Delhi - 110001