



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

पावर कम्युनिकेशन डवलपमेंट प्रभाग

Power Communication Development Division

No. CEA/PCD/ PTCC/MP-461//1057-59

Date: 05.11.2019

DET (PTCC), Western Zone,
Bharat Sanchar Nigam Limited (BSNL),
O/o DET(PTCC), QA & Inspection Circle,
3rd Floor, D-Wing, BSNL Admin Bldg.,
Juhu Tara Road, Santacruz (West),
Mumbai - 400054.

Subject: Induced Voltage calculation in respect of PTCC proposal of 220 kV DCDS line from 220 kV s/s Shivpuri to 180 MW Solar Energy Power Project of M/s SEI Sunshine Power Pvt Ltd.

- Ref:** (i) Chief Engineer(Procurement), MPPTCL letter no 04-01/PTCC/2617/TR-I/765 dated 26.04.2019
(ii) BSNL letter no. IC/MBI/PTCC/MP-620 dated 16.08.2019
(iii) Western Central Railway letter no. WCR/N-HQ/120 PTCC-CORR-T-50-Pt-III caes-265 dated 31.05.2019
(iv) Defense letter no. B/46937/Sigs 7(b)/1604/ dated 23.07.2019

The PTCC case submitted vide reference (i) has been examined. The low frequency induction on BSNL and Railway Telecommunication circuits as per details furnished vide above references (ii) and (iii) respectively has been examined. The Soil Resistivity value has been taken as 30,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL Telecom Cables and Railway Telecommunication circuits under single line to ground fault condition are enclosed at Annex-I&II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above Ref.(iii) for the line (a copy enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above

Upendra Kumar
06/11/2019
(Upendra Kumar)
Chief Engineer

Copy to:

- 1) GM(S&T), Western Central Railway, 1st Floor, Annex-II Building, Plat Form No-6, Jabalpur - 482001
(Only Annex II)
2) Chief Engineer(Procurement), MPPTCL, Block No. 3, Shakti Bhawan, Rampur, Jabalpur (M.P.) - 482008

CEA Office Case No.: MP-461		Map Scale: 1:50,000			
DET (PTCC) Office Case No.: IC/MBI/PTCC/MP-620		Route Length: 3.550 Kms			
Railway Office Case No.:		Approx SR Value: 30,000 Ohm cms			
Name of Power Line		220KV DCDS line from 220KV S/s Shivpuri (MPPTCL) to 180MW (6x30) Solar Power Project of M/s SEI Sunshine Power Pvt. Ltd. and other developer at Village-Chittora and Binega, Distt.-Shivpuri.			
S. No.	Name of Telecom Line/ Cable	Length of Parallelism in Kms.	Mutual Coupling in Ohms	Fault Current in Amps	Induce Voltage in Volts
	SHIVPURI SSA				
	SDE (NWP) Shivpuri				
	Satanwara T/Exchange				
(3)	Satanwara Exch to Highway - 100 Pair		← out of 115m →		

U/pend...
06/11/2019

मुख्य अभियंता/Chief Engineer
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi

ANNEXURE - II

Case No.: MP-434					
Name of the Power line: 220 kV DCDS line from 220 kV s/s Shivpuri to 180 MW Solar Energy Power Project of M/s SEI Sunshine Power Pvt Ltd.			Map Scale : 1cm=500mts Total Length : 3.55 Km. S.R. Value : 30,000 Ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

Western Central Railway					
letter no. WCR/N-HQ/120 PTCC-CORR-T-50-Pt-III caes-265 dated 31.05.2019					
Affected Blocks & Telecom Circuits Details					
1	Kolaras - Shivpuri	---out of //sm---			0
2	Shivpuri - Padarkheda	2.9	0.0116	6000	70

Spencer
26/11/2019

मुख्य अभियंता / Chief Engineer
केन्द्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi

MP-461 Annex-111

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)/1604/

23 Jul 2019

Chief Engineer (Procurement)
Madhya Pradesh Power Transmission Co. Ltd.
Block No. 3, Shakti Bhawan, Rampur,
Jabalpur (M.P.) 482008

**CONSTRUCTION OF 220KV DCDS LINE FROM 220KV S/S SHIVPURI (MPPTCL) TO 180MW
(6X30) SOLAR POWER PROJECT OF M/S SEI SUNSHINE POWER LTD AND OTHER
DEVELOPER AT VILLAGE CHITTORA AND BINEGA DISTT. SHIVPURI UNDER CONSUMER
CONTRIBUTION WORKS**

1. Ref your letter No 04-01/PTCC/2617/TR-I/765 dt 26 Apr 2019. (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.


(A Rawat)
Maj
GSO 1 (Comn)
for SO-in-C

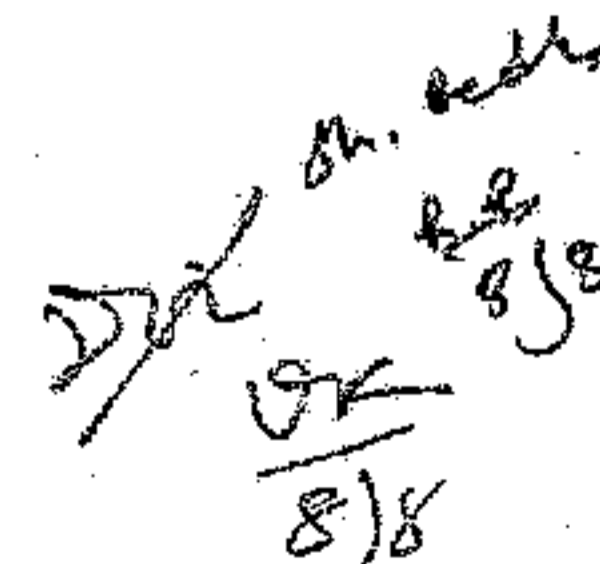
Enclosures : As above

Copy to :-

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

for information.




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