

भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power केन्द्रीय विद्युत प्राधिकरण Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट प्रभाग Power Communication Development Division

No.: CEA/PCD/ PTCC/MP-456/159-161

Date:25.02.2020

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

Subject: Induced voltage calculation in respect of 400 kV DCDS line from 400 kV S/S Nagda to proposed 400 kV S/S Mandsaur (Sitamau) under Phase-I project of Green Energy Corridor Scheme of MNRE, Gol.

Ref.: (i) MPPTCL Ref. No. 04-01/PTCC/2472/TR-I/12129

Dated: 13.02.2019

(ii) BSNL Ref. No. IC/MBI/PTCC/MP-600

Dated: 29.07.2019

(iii) West Central Railway Ref. No. WCR/N-HQ/120 PTCC-CORR-T-

Dated: 15.03.2019

Defense Ref. No. B/46937/Sigs 7(b)/1483

Dated: 27.03.2019

The PTCC proposal submitted vide ref. (i) has been examined. The low frequency induction on BSNL cables and block circuits of West Central Railways as per details furnished vide ref. (ii) and ref. (iii) respectively has been examined. The Soil Resistivity value has been taken as 7,500 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL cables and Railway block circuits under single line to ground fault condition are enclosed at Annex-I and Annex-II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III).

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

Encl.: As above.

5) sendakum_2

(Upendra Kumar) Chief Engineer, PCD

Copy to:

MIC

CSTE (Tele), Office of GM (S & T), 1st Floor, Annex II Building, Jabalpur-482001. (Annex-II only)
 Chief Engineer (Procurement), MPPTCL, 1st Floor, Block No. 3, Shakti Bhavan, Rampur, Jabalpur, Madhya Pradesh -482008.

CEA	office Case No.				
	office Case No.: MP-456		Map Scale: 1:50	,000	· · · · · · · · · · · · · · · · · · ·
	(PTCC) Office Case No.: IC/MBI/PTCC/MP-600		Route Length: 6	3.660 Kms	<u>. </u>
Railwa	ay Office Case No.:		Average SR Vali		<u> </u>
Name	of Power Line 400KV DCDS line from 40				
	Mandsaur (Sitamau) under Scheme Of MNRE, Gol.	r Phase-I pr	gda to propose oject of Green	d 400KV S/ Energy Cor	s ridor
S. No.	Name of Telecom Line/ Cable UJJAIN SSA	Length of Parallelist in Kms.	Mutual	Fault Current in Amps	Induce Voltage in Volts
	SDOP Nagda				7 Oits
	BSNL U/G Cable:- Existing within vicinity of 8.00 Km near to the proposed power line, i.e. 8.00 Km corridor on either side of the proposed power line – NIL.	[]	- M/A		
; ·					
<u> </u>	MANDSAUR SSA				
)	SDOT Shamgarh Sitamau T/Exchange				
	Sitamau Exchange to Location (A) - 50 Pair				
	Sakhtali T/Exchange	Out of	Paralle	ism -	
	Shakhtali Exchange to Location (A) - 100 Pair	- Mut a	f Parello	f.	

मुख्य अभिवता/Chief Engineer केन्द्रीय विद्ता प्रधिकरण/C.E.A. विद्युत मंत्रालय/Ministry of Power भारत संस्कार/Govt. of India नई दिल्ली/New Delhi

Case N	no.: MP-456		ANNEXURE -TT			
	of the Power line: 400KV DCDS line for proposed 400KV S/s Mandsaur (Sitamau of Green Energy Corridor Scheme Of MNR)	Map Scale : 1cm=500mts Total Length : 68.66Km. S.R. Value : 求等00 Ohms-cm				
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts	
WEST (CENRAL RAILWAY	dm 1 2 -	<u> </u>			
Ref. No:	WCR/N-HQ/120 PTCC- CORR-T-50-	PT-III Cass DATED:	15-03-2019			
_	d Blocks & Telcom Circuits Details					
1 -	Nagda - Rohalkhurd	1.1	0.0007	779		
2	Rohalkhurd - Mehidpur Road	4.6	0.0027	12,520	34	
3	Mehidpur Road - Lunirichha	Outside]	0.0010	11,352	12	
	· · · · · · · · · · · · · · · · · · ·		- V CONSLO	yeraron -	0	
<u> </u>		192	·	<u> </u>		
		25/4	· · · · ·	<u> </u>		
		<u> </u>	নাল ইন্যাল ংক বিকংপ / C.E.A. inistry of Power			
			Govt. of India New Delhi		_	
					· · · · · · · · · · · · · · · · · · ·	
				·	· - · -	
			<u> </u>		<u> </u>	
			<u> </u>			
					<u>-</u> -	
	· · · · · · · · · · · · · · · · · · ·				<u> </u>	
					_	
					-	
			· · · · · · · · · · · · · · · · · · ·			
					-	
	······································				-	

Tele: 23019746

MP-456

Amnexure-III

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

B/46937/Sigs 7(b)/1483/

Mar 2019

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

PTCC ROUTE APPROVAL FOR CONSTRUCTION OF 400KV DCDS LINE FROM NAGDA (400KV) TO PROPOSED 400KV S/S MANDSAUR (SITAMAU) UNDER PHASE-I PROJECT OF GREEN ENERGY CORRIDOR SCHEME OF MNRE, GOI

- 1. Ref your letter No 04-01/PTCC/2472/TR-I/12129 dt 13 Feb 2019. (copy att).
- 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.