

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

No.: CEA/PCD/PTCC/MP-459/162-164

Date: 25.02.2020

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

Subject: Induced voltage calculation in respect of 220 kV DCDS line from Nipaniya (220 kV) to proposed 400 kV S/S Mandsaur (Sitamau) under Phase-I project of Green Energy Corridor Scheme of MNRE GoI.

Ref. :	(iii)		Dated: 22.02.2019 Dated: 13.08.2019 Dated: 15.03.2019
	(iv)	Defense Ref. No. B/46937/Sigs 7(b)/1507/	Dated: 11.04.2019

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 10,000 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.

(Upendra Kumar) Chief Engineer, PCD

## Copy to:

y to:

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

DET	(PTCC) Office Case No.: IC/MBI/PTCC/MP-60		Ma	ap Scale: 1:50	,000	
Rail	way Office Case No.:	Route Length: 46.463 Kms				
Name	e of Power Line  220KV DCDS line from I  Mandsaur (Sitamau) und  Scheme of Marian	Vipaniya (22	Ave	rage SR Valu	d 400KV S	Ohm cms
S. No	Mandsaur (Sitamau) und Scheme of MNRE, Gol.  Name of Telecom Line/ Cable	Length (		. or Green I	Energy Cor	ridor
<u>-</u>	MANDSAUR SSA	Paralleli in Kms.	sm	Mutnal Coupling in Ohms	Fault Current in Amps	Induce Voltage Volts
	SDOT Shamgarh					7 0168
(1)	Sitamau Exch to Laduna -50 Pair			·. 		· .
(3)	Tirod Exch to Surajna -50 Pair					
(4)	Surajna Exch to Belara -20 Pair	J P I	V.	less #	ram 4	30V
6)	Knejadiya Exch to Pali -50 Pair	1	-	<del></del>		_ <del>-</del>
	Khejadiya Exch to Rahimgarh -50 Pair					•
<u></u>	Khejadiya Exch to Basai -50 Pair	Out o	7-17	Faralleli	me	
<del></del>	Ajaypur Exch to Kurawan -50 Pair		+			
2) [5 5) [5	Sunwasara Exch to Guradiya Pratap -50 Pair	Ti	/ / /			·
	Sunwasara Exch to Devariya Bije -20 Pair			ess the	m 430	o V -
, 10	Shamgarh Exch to Dhamaniya Deewan -20 Pair		_ -		<u> </u>	
$\frac{1}{N}$	Melkheda Exch to Jamuniya -20 Pair	1	j	Ve !	·	<del></del>

मुख्य जिल्ला/Child Engineer केन्द्रीय विद्ता प्रधिकरण/C.E.A. विद्युत मंत्रालय/Ministry of Power मारत संस्कार/Govt. of India नई दिल्ली/New Delhi Tele: 23019746

Annexuse-MMP-459

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

B/46937/Sigs 7(b)/1507/

11 Apr 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 220KV DCDS LINE FROM NIPANIYA (220KV) 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/2475/TR-I/12585 dt 22 Feb 2019. (copy att).
- 2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map she∈ received under your letter mentioned above.
- 3. Documents alongwith map sheets (in original) are returned herewith for your furthe

(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.