

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-446/ 353- 355

Date: 27.03.2019

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, Santacurz (West), Mumbai – 400054.

Subject: Induced Voltage calculation in respect of PTCC proposal of 220 kV DCDS line from proposed 400/220 kV S/S Badnagar to proposed 220 kV S/S Kanwan

Ref: (i) BSNL letter no. IC/MBI/PTCC/MP-575 dated 19.02.2019

(ii) Defense letter no. B/46937/Sigs 7(b)/1290 dated 03.12.2018

Sir.

The low frequency induction on BSNL circuits as per details furnished vide above cited references (i) has been examined. The Soil Resistivity value has been taken as 7500 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL Telecom Cables under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. Defense has accorded NOC vide above Ref.(ii) for the above line (a copy enclosed at Annex-II).

Railway Authority have not yet submitted Railway Telecommunication details. However, on observing the Topo map, it is found that there is no Railway track in the vicinity of Zone of consideration for Induced voltage calculation.

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

Encl.: As above

Yours faithfully,

(Naresh Bhandari) Chief Engineer

Copy to:

 Office of CSTE, Western Railway, S&T Dept., 5th Floor, Station Building, Churchgate, Mumbai – 400020 (Only Cover Letter)

2) Chief Engineer(Procurement), GETCO, Block No. 3, Shakti Bhawan, Rampur, Jabalpur (M.P.) - 482008

MIC

CEA O	ffice Case No.:	MP-446	Map Scale: 1:50,000					
DET (PTCC) Office Case No.: IC/MBI/PTCC/MP-575 Railway Office Case No.:					Route Length: 31.920 Kms Average SR Value: 7,5 0 00hm cms			
		Kanwan under Phase-I Proj	ect of Gre	en Er	nawar to p tergy Schen	roposea 22 ae of MNR	E of GoI	
S. No.	Name of Telecom Line/ Cable DHAR SSA		Length of Parallelism in Kms.		Mutual Coupling in Ohms	Fault Current in Amps	Induce Voltage in Volts	
					in Outilis	шАшря	70165	
	SDOT Dhar/I	Badnawar						
(1)	Badnawar Exch to Badnawar Village - 400 Pair		1					
(2)	Badnawar Exc	Liv	less	than 43	n.v. —			
(3)	Badnawar Exc	1		Trum 75	0 0	-		
(4)	Badnawar Exc	h to Choupati - 50 Pair						
(5)	Kanwan Exch	7						
(6)	Kanwan Exch	> = IV	les	s thain	430V -			
(7)	Kanwan Exch							
(8)	Nagda (Makni - 200 Pair) Exch to Nagda (Makni) Village	341	V 16	ess than	4200		
(9)	Nagda (Makni) Exch to Nagda (Makni) Village - 100 Pair		1	-				
(10)	Karod Kalan E 200 Pair	xch to Karod Kalan Village –	} -	00+	of 11sm		<u>→</u>	
(11)	Bidwal Exch to	Bidwal Village – 100 Pair	3-6-14	ies	s than	4300 -	->	
(12)	Kod Exch to K	od Village – 100 Pair						
(13)	Bakhatgarh Ex 200 Pair	ch to Bakhatgarh Village -	3 - 1	110	1s than	430V -		
(14)	Multhan Exch	to Multhan Village – 100 Pair	240	v+	d llim		_	
(15)	Multhan Exch	to Multhan Village – 50 Pair	1		1			
(16)	Tilgara Exch to	Tilgara Village – 100 Pair	} 401	or si	delvo	si derechi	on Zone	
(17)	Tisgaon Exch t	to Tisgaon Village - 100 Pair	5		N	1		

नरेश भंडारी/NARESH BHANDARI
मुख्य अभियन्ता/Chief Engineer
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

Tele: 23019746

MP-44-6)

ANNEX-11

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

B/46937/Sigs 7(b)/1290/

03 Dec 2018

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 PROPOSED 400KV S/S BADNAGAR TO PROPOSED 220KV S/S KANWAN

- 1. Ref your letter No 04-01/PTCC/2468/TR-I/7524 dt 08 Oct 2018 (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.

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(A Rawat)

Маj

GSO 1 (Comn) for SO-in-C

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.