



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-454/ 53-55

Date: 16.01.2020

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 220 kV DCDS line from Neemuch to Ratangarh under Phase-I project of Green Energy Corridor scheme of MNRE, GoI.

Ref. :

(i)	MPPTCL Ref. No. 04-01/PTCC/2476/TR-I/12398	Dated: 19.02.2019
(ii)	BSNL Ref. No. IC/MBI/PTCC/MP-602	Dated: 02.12.2019
(iii)	Western Railway Ref. No. SG 158/28/10(L-202)	Dated: 07.06.2019
(iv)	Defense Ref. No. B/46937/Sigs 7(b)/1502/	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 Western 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
16.01.2020
(Upendra Kumar)
Chief Engineer, PCD

M/c

Copy to:

1. CSTE(Tele), O/o GM (S&T), 5th Floor, Station Building, Churchgate, Mumbai-400020. (Annex-II only)
2. Chief Engineer (Procurement), MPPTCL, 1st Floor, Block No. 3, Shakti Bhawan, Rampur, Jabalpur, Madhya Pradesh -482008.

CFA Office Case No.: MP-454		Map Scale: 1:50,000			
DET (PTCC) Office Case No.: IC/MBI/PTCC/MP-602		Route Length: 44.157 Kms			
Railway Office Case No.:		Average SR Value: 10,000 Ohm cms			
Name of Power Line		220KV DCDS line from Neemuch (220KV) to Ratangarh (220KV) under phase-I project of Green Energy Corridor.			
S. No.	Name of Telecom Line/ Cable	Length of Parallelism in Kms.	Mutual Coupling in Ohms	Fault Current in Amps	Induce Voltage in Volts
	MANDSAUR SSA				
	SDOT Neemuch				
(2)	Newad T/Exchange				
(5)	Newad Exch to Modi - 50 Pair				
(6)	Modi to Palarkheda - 20 Pair				
(7)	Newad Exch to Bharbhadiya - 100 Pair				
(3)	Rewali Dewali T/Exchange				
(8)	Rewali Dewali Exch to Girdora - 100 Pair				
(9)	Girdora to Kanakheda - 50 Pair				
(10)	Rewali Dewali Exch to Dhaneriyakurd - 20 Pair				
(4)	Javi T/Exchange				
(11)	Javi Exch to Barkhedikala - 50 Pair				

Upendra Kumar
16.01.2020

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-454

Name of the Power line: 220 KV DCDS line from Neemuch to Ratangarh under phase-I project of Green Energy Corridor Scheme of MNRE, Gol.

Map Scale : 1 cm=500 mts
Total Length : 44.157 km
Soil Resistivity : 10,000 ohm-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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Western Railway letter no:- SG.158/28/10 (L-202) dated 07.06.19

Affected Blocks & Telecom circuit details					
1	Harkiakhali to Nimach	}	Out of Parallelism		
2	Nimach to Bisalwas Kalan				

Upendrakumar
 16.01.2020
 मुख्य अभियंता / Chief Engineer
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

Tele : 23019746

Annex-III MP-454

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

B/46937/Sigs 7(b)/1502/

11 Apr 2019

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

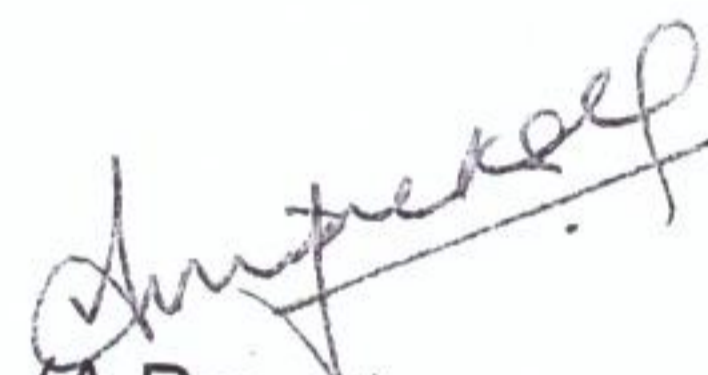
**PTCC ROUTE APPROVAL FOR CONSTRUCTION OF 220KV DCDS LINE FROM NEEMUCH
(220KV) TO RATANGARH (220KV) UNDER PHASE-I PROJECT OF GREEN ENERGY
CORRIDOR SCHEME OF MNRE, GOI**

1. Ref your letter No 04-01/PTCC/2476/TR-I/12398 dt 19 Feb 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.

452
274
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


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

for information.