



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-457/153-155

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 LILO of 220 kV DCDS Nagda (400 kV) - 220 kV Neemuch line from Loc. No. 211 to proposed 400 kV S/S Mandsaur (Sitamau) under Phase-I project of Green Energy Corridor scheme of MNRE, GoI.

Ref. : (i) MPPTCL Ref. No. 04-01/PTCC/2473/TR-I/12314
(ii) BSNL Ref. No. IC/MBI/PTCC/MP-610
(iii) Western Railway Ref. No. SG 158/28/10(L-201)
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1500/

Dated: 16.02.2019

Dated: 07.08.2019

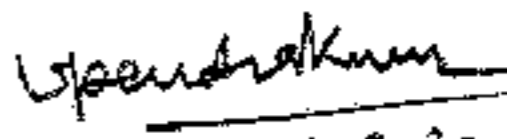
Dated: 07.06.2019

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 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.


25.2.2020
(Upendra Kumar)
Chief Engineer, PCD

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.

MIC

CEA Office Case No.: MP-457		Map Scale: 1:50,000			
DET (PTCC) Office Case No.: IC/MBI/PTCC/MP-610		Route Length: 25.770 Kms			
Railway Office Case No.:		Average SR Value: 7,500 Ohm cms			
Name of Power Line		LILO of 220 KV DCDS Nagda (400KV) – Neemuch (220KV) line from Loc. No. 211 to proposed 400KV S/s Mandsaur (Sitamau) under Phase-I Project of Green Energy Corridor Scheme Of MNRE, GoI.			
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 Mandsaur				
(1)	Dalanda Exch to Nai Fatehgarh -50 Pair	} Out of Parallelism			
(2)	Dalanda Exch to Poot Office Pillar - 400 Pair				
(3)	Poot Office Pillar to Mandi - 50 Pair				
(4)	Poot Office Pillar to Police Chowki - 20 Pair				
(5)	Dalanda Exch to Pragati Chouraha Pillar - 400 Pair				
(6)	Pragati Chouraha Pillar to Palaud Station - 50 Pair				
(7)	Pragati Chouraha Pillar to Dhundhadka - 50 Pair				
(8)	Dhamnar Exch to Guliyana -50 Pair				
(9)	Dhamnar Exch to Hathuriya -50 Pair				
(10)	Afjalpur Exch to Afjalpur Village -100 Pair				
(11)	Afjalpur Exch to Gudiyana -50 Pair				
(12)	Rinda Exch to Badwas -50 Pair				
(13)	Rinda Exch to Paldi -50 Pair				
(14)	Digao Exch to Gujarbardiya -50 Pair				
(15)	Bilantri Exch to Sitamau Road -50 Pair				
	SDOT Shamgarh				
(1)	Sitamau Exch to Laduna -50 Pair				
(2)	Titrod Exch to Surajni -50 Pair				
(3)	Titrod Exch to Belara -50 Pair				

IV less than 430V

IV less than 430V

IV less than 430V

} Out of Parallelism

Tele : 23019746

Annexure-III MP-457

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

B/46937/Sigs 7(b)/1500/


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 LILO OF 220KV DCDS NAGDA (400KV)-220KV
NEEMUCH LINE FROM LOC. NO.211 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/2473-A/TR-I/12314 dt 16 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.

456
22/4
Enclosures : As above


(A Rawat)
Maj
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.