



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-462/1223-25

Date: 13.12.2019

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, Santacruz (West),
Mumbai – 400054.

Subject: Induced Voltage calculation in respect of PTCC proposal of 220 kV DC S line from 400 kV S/S Badnawar for Power Supply of 12 MVA to M/s Wonder Cement ltd at Village Kherwas, Badnawar.

- Ref:** (i) Chief Engineer(Procurement), MPPTCL letter no 04-01/PTCC/2616/TR-I/1025 dated 04.05.19
(ii) BSNL letter no. IC/MBI/PTCC/MP-621 dated 21.06.19
(iii) Western Railway letter no no. SG.158/28/10/L-209 dated 30.07.19
(iv) Defense letter no. B/46937/Sigs 7(b)/1666/ dated 23.07.19

The PTCC case submitted vide reference (i) has been examined. The low frequency induction on BSNL Telecommunication circuits as per details furnished vide above references (ii) 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. Western Railway vide above ref (iii) informed that Railway lines are out of 8 km area of the proposed power line. Defense has accorded NOC vide above Ref.(iii) for the line (a copy enclosed at Annex-II).

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

Encl.: As above

आर. पी. सिंह
13.12.19
(For Chief Engineer (PCD))

Copy to:

1. Office of CSTE, Western Railway, S&T Dept. , 5th Floor, Station Building, Churchgate, Mumbai – 400020
2. Chief Engineer(Procurement), MPPTCL, Block No. 3, Shakti Bhawan, Rampur, Jabalpur (M.P.) - 482008

M/C

CEA Office Case No.: MP-462

Annex-I

DET (PTCC) Office Case No.: IC/MBI/PTCC/MP-621

Map Scale: 1:50,000

Railway Office Case No.:

Route Length: 5.890 Kms

Name of Power Line

220KV DCSS line from 400KV S/s Badnawar for power supply of 12MVA to M/s Wonder Cement at Village-Kherwas.

Average SR Value: 7500 Ohm cms

S. No.	Name of Telecom Line/ Cable	Length of Parallelism in Kms.	Mutual Coupling in Ohms	Fault Current in Amps	Induce Voltage in Volts
	DHAR SSA				
	SDOT Badnawar				
(A)	Badnawar T/Exchange				
(1)	Badnawar Exch to Main Village - 400 Pair	} ← IV less than 430V →			
(2)	Badnawar Exch to Main Village - 400 Pair				
(3)	Badnawar Exch to Main Village - 200 Pair				
(4)	Badnawar Exch to Chopati - 50 Pair				
(B)	Multhan T/Exchange				
(5)	Multhan Exch to Chopati - 20 Pair	} ← IV less than 430V →			
(6)	Multhan Exch to Main Village - 100 Pair				
(C)	Dholana T/Exchange				
(7)	Dholana Exch to Phata - 20 Pair	} ← out side IV consideration zone →			
(8)	Dholana Exch to Main Village - 100 Pair				

R.P.C. 142

12.12.19

राजेंद्र प्रताप सिंह
RAGHENDRA PRATAP SINGH
निर्देशक/Director
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत विभाग/Ministry of Power
भारत सरकार/Govt. of India

MP-462

Tele : 23019746

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


B/46937/Sigs 7(b)/1666/

23 Jul 2019

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

CONSTRUCTION OF 220KV DCSS LINE FROM 400KV S/S BADNAWAR FOR POWER SUPPLY OF 12MVA TO M/S WONDER CEMENT AT VILLAGE KHERWAS UNDER CONSUMER CONTRIBUTION WORKS-PTCC ROUTE APPROVAL

1. Ref your letter No 04-01/PTCC/2616/TR-I/1025 dt 04 May 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.

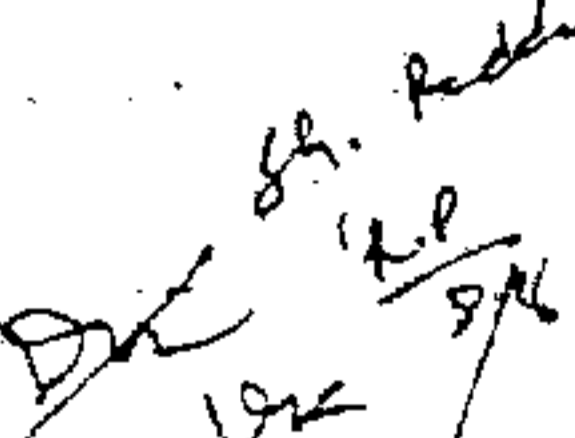

(A Rawat)
Maj
GSO 1 (Comn)
for SO-in-C

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.


Sh. Raddu
12/8
9/16
S/R

