



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

Case No.: MP-483
PTCC proposal for 220 kV DCDS transmission line from 220 kV S/S Tikamgarh to 220 kV S/S Chhatarpur : 90.55 km

Reference:		
S. No.	Reference No.	Dated
(i)	MPPTCL : 04-01/PTCC/2660/TR-I/2934	17.09.2020
(ii)	BSNL: PTCC/WR/2020-21/MP-687	03.08.2021
(iii)	North Central Railway: NCR/S&T/2074/telecom/PTCC(part-1)	22.01.2021
(iv)	Defense: B/46937/Sigs 7(b)/2175	04.12.2020

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of North Central Railway with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of North Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I and Annexure-II respectively. The screening factors, as applicable, have been considered. The Defense Authority have accorded NOC vide above reference (iv) for the proposed power line. (a copy enclosed at Annexure-III)

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

Encl.: As above.

Signature Not Verified
 Digitally signed by RAJIVENDRA PRATAP SINGH
 Date: 2021.09.08 15:09:02 IST

Director

To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL; O/o DET (PTCC), QA & Inspection Circle, 3 rd Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054.	Annexure-I & Annexure-III only
2.	ASTE/Tele/HQ	North Central Railway; HQ's Office (S&T Branch), Ganga Parisar, Subedarganj, Prayagraj-211015.	Annexure-II only
3.	Chief Engineer (Planning & Design)	Madhya Pradesh Power Transmission Co. Ltd.; Block No. 3, Shakti Bhawan, Rampur, Jabalpur-482008.	Copy for information

M/C

CEA : MP-483

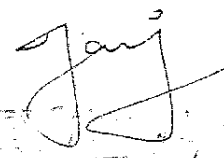
(Annexure-I)

SR: 20,000-2cm

Details of BSNL U/G Cables (Including Armored OFC/Excluding OFC)

Total length: 90.55 km

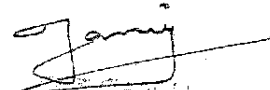
S. No.	Name of Telecom Line/ Cable	IV calculated.	No. of Pair
1.	<u>CHHATARPUR EXCHANGE</u>		
	Primary U/G Cable - 04 Km	IV less than 430V	800 pair
	Primary U/G Cable - 1.5 Km		1200 pair
	primary U/G cable - 05.1 Km		450 pair
	Primary U/G Cable - 00 Km		200 pair
	primary U/G cable - 12 Km		100 pair
	Secondary U/G cable - 20 Km		50 pair
2.	<u>BALDEOGARH</u>		
	Primary U/G Cable - 1 Km		100 pair
	Secondary U/G cable - 2 Km		50 pair
3.	<u>TIKAMGARH</u>		
	Primary U/G Cable - 2 Km		800 pair
	Primary U/G Cable - 0.4 Km		450 pair
	Primary U/G cable - 0.4 Km		200 pair
	Primary U/G cable - 05.05 Km		100 pair
	secondary cable - 0.8 Km		50 pair


 जंग
 जिला कार्यालय/ओ.ए.सी. कार्यालय
 नई दिल्ली, New Delhi-06

ANNEXURE - II

Case No.: MP-483 Name of the Power line: 220 kV DCDS transmission line from 220 kV S/S Tikamgarh to 220 kV S/S Chhatapur.			Map Scale : 1 cm=500 m Total Length : 90.55 km S.R. Value : 20,000 ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

North Central Railway: NCR/S&T/2074/telecom/PTCC(part-1) Dated: 22.01.2021					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Udaipura to Tikamgarh	2	0.0015	9778	15
2	Tikamgarh to Mawai	8.9	0.0074	8729	65
3	Mawai to Sarkanpur	10.4	0.0054	7812	42
4	Sarkanpur to Khargapur	9.9	0.0014	6519	09
5	Khargapur to Tila	2.6	0.0004	6405	03
6	Tila to Rampura	6.3	0.0008	5846	05
7	Rampura to Ishanagar	1.2	0.0002	5716	01
8	Ishanagar to Chhatapur	14.5	0.0019	7679	15
9	Chhatapur to Basari	3.1	0.0009	9337	09


 Joint Secy. (E)/Asst. Director:
 Dept. of Power, Govt. of India
 New Delhi-110002

File No. 23019746

MP-483 Annex-III

C.E. (Procurement)
M.P.P.
14 DEC 2020
7699
R. No.

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

04 Dec 2020

3M695/TS-gs 1(b)/21/5/

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 220KV S/S
TIKAMGARH TO 220KV S/S CHHATARPUR

1. Ref your letter No 04 01/PTCC/2680/ R-4/2934 dt 17 Sep 2020 (copy att)
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Memo sheet received under your letter mentioned above
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action

(A Rawat)
Major
GSO 1 (Comm)
for SO in-C

Enclosures As above

Copy to

The Director (PTCC), GLA
Power Communication Development Division
NRPG Complex, 18-A Shantoo Jee Singh Marg
Kailasha Sarai, New Delhi - 110016

for information

The DIT (PTCC) Northern Zone
The PGM (North) QA & Inspection Circle
17 Max Building, Janpath
New Delhi - 110001

ACE-I	ACE-II	SE-I
EE (TR-I)	SE-II	EE (S/s-I)
EE (TR-II)	EE (TK-I)	EE (S/s-II)
EE (TK-IV)	EE (TN-II)	EE (S/s-III)
EE (TN-VI)	EE (TK-III)	EE (S/s-IV)
EE (PMU)	EE (TK-VI)	EE (TK-VII)

Received
via mail 28/07/21