



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division

No.: CEA/PCD/ PTCC/MP-473/238-35

Date: 01.06.2020

Subject: - Induced voltage calculation in respect of 765 kV D/C (Hexa) Vindhyaachal pooling station to Varanasi transmission line. (MLP. portion)-Reg.

Reference: -

- | | |
|---|-------------------|
| (i) PGVTSL Ref.No.NR-III/PVTSL/VIND-VNSTL/PTCC/1449 | dated: 02.03.2019 |
| (ii) BSNL Ref. No. IC/MBI/PTCC/MP-619 | dated: 20.08.2019 |
| (iii) West Central Railway Ref. No. WCR/N-HQ/120 PTCC-T-50-III Caes-277 | dated: 20.11.2019 |
| (iv) Defense Ref. No. B/46937/Sigs 7(b)/1738 | dated: 28.08.2019 |

The PTCC proposal submitted vide ref. (i) has been examined. The low frequency induction on BSNL Telecom Lines and Block and Communication circuits of West Central Railway as per details furnished vide above cited references (ii) and (iii) respectively has been examined. IV calculation for BSNL is not required as there are no primary U/G cable and no armoured OFC within 08 kms of power line. The Average Soil Resistivity value has been taken as 50,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling West Central Railway Block and Communication circuits under single line to ground fault condition are enclosed at Annex-I . The screening factors as applicable have been considered. In addition, Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-II).

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

Encl.: As above.

Upendra Kumar
08.06.2020

(Upendra Kumar)
Chief Engineer

To,
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


Contd.

Copy to:

1. Dy. CSTE/Tele & Ptg., West Central Railway, O/o GM (S & T), 1st Floor, Annex II building, Jabalpur- 482068. (Annex-I only)
2. Sr. DGM (Engg.), NH-3, Opp. NTPC Hospital, Old Tiny Building, P.O. Vindhyanagar, Singrauli- 485886.

Case No.: MP-473 Name of the Power line: 765 kV D/C (Hexa) Vindhyachal pooling station to Varanasi transmission line. (M.P. portion).			Map Scale : 1cm=500mts Total Length : 91.73 km. S.R. Value : 20,000 ohms-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

WEST CENTRAL RAILWAY					
Ref. No: WCR/N-HQ/120 PTCC-T-50-III Caes-277 DATED: 20-11-2019					
Affected Blocks & Telcom Circuits Details					
1	Majholi to Bargawan	1.2	0.0004	14347	06
2	Bargawan to Gondawali	0.4	0.0027	13928	38
3	Gondawali to Mahdiya	3.5	0.0005	14103	07


 08/06/2020
 मुख्य अभियंता/Chief Engineer
 केंद्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi

Tele : 23019746

(Ammer-II)

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


B/46937/Sigs 7(b)/1738/

28 Aug 2019

Dy. C.E.O.
Power Grid Varanasi Transmission System Limited
C-27/210, Kailgarh House, Hindustan Times Office,
Jagatganj Varanasi (UP)-221002

**SUBMISSION OF PTCC CASE FOR 765KV D/C (HEXA) VINDHYACHAL POOLING STATION
TO VARANASI TRANSMISSION LINE (MP PORTION) ASSOCIATED WITH "NEW WR-NR
765KV INTER-REGIONAL CORRIDOR"-FOR MARKING OF DEFENCE TELECOM DETAILS**

1. Ref your letter No WRHQ-II/Engg/PTCC/2106/Vindhyachal-Varanasi (MP Portion)/335/1301 dt 09 Jul 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.


(Anurag Mishra)
Lt Col
GSO 1 (Comm)
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

Divisional Engineer Telegraph (PTCC)
O/o GM (North), BSNL, QA & Inspection Circle,
CTS Compound, Africa Avenue Road,
Netaji Nagar, New Delhi-110023

for information

