



भारत सरकार

Government of India विद्युत मंत्रालय Ministry of Power केन्द्रीय विद्युत प्राधिकरण Central Electricity Authority विद्युतसंचारविकासप्रभाग

Power Communication Development Division

No. CEA/PCD/PTCC/MP-433/589-591

Date:23.09.2020

Subject: Induced Voltage calculation in respect of PTCC proposal for 400 kV DCDS line from 400 kV S/S Ashta to 400 kV S/S Ujjain.

Ref: (i) MPPTCL letter no. 04-01/PTCC/2482/TR-I/177 dated 05.04.2018

- (ii) BSNL letter no. IC/MBI/PTCC/MP-542 dated 30.01.2019
- (iii) Western Railway letter no. SG. 158/28/10 (L-182) dated 23.12.2019
- (iv) Defense letter no. B/46937/Sigs 7(b)/1107 dated 30.07.2018

MPPTCL submitted the subject proposal vide above cited reference (i). The low frequency induction on Railway Telecommunication circuits as per details furnished vide above cited reference (iii) respectively has been examined. The Soil Resistivity value has been taken as 7,500 Ohms-cm, as per data submitted by the Power Authority. Voltages likely to be induced on paralleling Railway Telecommunication circuits under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. BSNL has furnished certificate certifying that 'no overhead telecom lines and underground cables including co-axial cables exist within 8 km corridor on either side of the proposed power line' vide above Ref. (ii). Further, Defense has accorded NOC vide above Ref.(iv) for the above line (a copy enclosed at Annex-II).

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

Enclosures.: As above.

39-5-371

(Upendra Kumar) Chief Engineer

To,
Divisional Engineer (PTCC), Inspection Circle,
Bharat Sanchar Nigam Limited (BSNL),
3rd Floor, D-Wing, BSNL Admin Building
Juhu Tara Road, Santacruz (West), Mumbai-400054

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Copy to:

- GM(S&T), Western Railway, S&T Deptt., 5th Floor, Station Building, Churchgate, Mumbai 400020 (with Annexure-II).
- Chief Engineer (Procurement), MPPTCL, Block No. 3, Shakti Bhawan, Rampur, Jabalpur (M.P.) - 482008

ANNEXURE - I

THE STATE NEW Delhi-66

Map Scale : 1cm=500mts Total Length: 89,737 km Case No.: MP-433 S.R. Value: 7,500 Ohms-cm Name of the Power line: 400 kV DCDS line from 400 kV S/S Ashta to 400 kV S/S Ujjain Effective Mutual Length of Fault I.V Parallelism Coupling current in Telecom. Details in Ohms. Volts. S.No. in Km. in Amps. WESTERN RAILWAY letter no. SG.158/28/10 (L-182) dated 23.12.2019 Affected Blocks & Telcom Circuits Details Ujjain 'C' Cabin - Pingleshwar 0 Pingleshwar - Tajpur Outside IV Consideration Zone 0 Tajpur - Tarana Road 13000 1.25 3 0.00017 Tarana Road - Maksi Outside IV Consideration Zone 0 TOTAL PROPERTY ASSIL DIRECTOR-II केल्ड राष्ट्रात प्राधिकाण / ८.६.А. REEL WEST MANUFACTURED OF FOR SE

Amnex-D)

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)/1107 /

30 Jul 2018

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

CONSTRUCTION OF 400KV DCDS LINE FROM 400KV S/S ASHTA TO 400KV S/S UJJAIN – PTCC ROUTE APPROVAL

- Reference your letter No 04-01/ PTCC/2482/TR-I/177 dt 05 Apr 2018 (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

Copy to :-

Director(PTCC)
Central Electricity Authority
Power Communication Development Division
NRPC Complex, 18-A, Shaheed Jeet Singh S Marg
Katwaria Sarai, New Delhi – 110016

- For information.

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