

## भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power केन्द्रीय विद्युत प्राधिकरण Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट प्रभाग Power Communication Development Division

No.: CEA/PCD/ PTCC/MP-442/ 156-158

Date: 25.02.2020

The Divisional Engineer (PTCC), Western Zone, Bharat Sanchar Nigam Limited (BSNL), O/o DET (PTCC), QA & Inspection Circle, 3<sup>rd</sup> Floor, D-Wing, BSNL Admin Building, Juhn Tara Road, Santacruz (West), Mumbai-400054

Subject: Induced voltage calculation in respect of 400 kV DCDS line from 765/400 kV S/S Indore to proposed 400 kV S/S Ujjain.

 Ref.:
 (i)
 MPPTCL Ref. No. 04-01/PTCC/2489/TR-I/5516
 Dated: 13.08.2018

 (ii)
 BSNL Ref. No. IC/MBI/PTCC/MP-563
 Dated: 31.01.2019

 (iii)
 Western Railway Ref. No. SG. 158/28/10 (L-179)
 Dated: 07.06.2019

 (iv)
 Defense Ref. No. B/46937/Sigs 7(b)/1245
 Dated: 15.10.2018

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 25,000 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.

(Upendra Kumar) Chief Engineer, PCD

## Copy to:

MIC

 CSTE(Tele),O/o GM(S&T), 5th Floor, Station Building, Churchgate, Western Railway, Mumbai-400020. (Annex-II only)

 Chief Engineer (Procurement), MPPTCL, 1st Floor, Block No. 3, Shakti Bhawan, Rampur, Jabalpur, Madhya Pradesh -482008.

भारतः सम्बतः/Govt. of India

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ANNEXURE - II Case No.: MP-442 Map Scale : 1cm=500mts Name of the Power line: 400KV DCDS line from 765/400KV S/s Total Length: 42.264Km. Indore (PGCIL) TO Proposed 400 S/s Ujjain. S.R. Value 25,000 Ohms-cm Effective Length of Mutual Fault I.V S.No. Parallelism Coupling Telecom. Details current in in Km. in Ohms. in Amps. Volts. WESTERN RAILWAY Ref. No: SG. 158 / 28 /10 (L-179) DATED: 07-06-2019 VIKRAMNAGAR - KARCHHA 33 0.0005 KARCHHA - NARANJIPUR 8,080 04 7.8 0.0114 NARANJIPUR - •DAWAS 8,353 95 Out Parallelism of UJJAIN C' CABIN- PINGLESHWAR. o-7 PINGLESHWAR - TAJPUR 0.0001 12,800 01 1.3 0.0075 TAJPUR - TARANA ROAD 6 13,136 98 2.45 0.0004 13580 05 Tel Sea of Chief Engineer केन्द्रीय विकृत प्राधिकाण/C.E.A. विद्युत मंत्राल्य / Ministry of Power भारत साकार/Govt. of India नई दिल्ली/New Delhi

Annexuse-III MP-442

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)/1245/

S Oct 2018

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

## CONSTRUCTION OF 400KV DCDS LINE FROM 765/400S/S(PGCIL) INDORE TO PROPOSED UJJAIN (400KV S/S) PTCC ROUTE APPROVAL

- Ref your letter No. 04-01/ PTCC/ 2489/TR-I/5516 dt 13 Aug 2018 (copy att).
- No Objection Certificate (NOC) is accorded based on inputs provided vide Map
- 3. Documents alongwith map sheets (in original) are returned herewith for your further action.

(A Rawat)

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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.