

I/31309/2023



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

CEA Case No. : MP-492		
Induced Voltage (IV) calculation in respect of PTCC proposal for LILO of one circuit of 220 kV DCDS Gwalior-II to Datia line at 765 kV PGCIL S/s Adupura (Gwalior) (2.8 km) - regd.		
S. No	Reference No.	Dated
(i)	MPPTCL: 04-02/PTCC/2697/PS/2769	02.12.2021
(ii)	MPPTCL: 04-02/PTCC/2697/2357	30.10.2023
(iii)	BSNL: PTCC/WR/2023-24/MP-735	27.10.2023
(iv)	North Central Railway: एनसीआर/एस एंड टी/2074/टेलिकॉम/ पी.टी.सी.सी. (पार्ट-1)	26.08.2022
(v)	Defense: B/46937/Sigs 7(b)/2697	31.08.2022

The PTCC proposal submitted vide reference (i) has been examined. Vide reference (ii) above, MPPTCL has informed that the subject mentioned line is ready for charging on 31.10.2023 and has requested for issuance of PTCC route approval on urgent basis. Vide above reference (iii), BSNL has intimated that telecom details received from their field office is NIL. The LF induction on communication circuits of North Central Railway with respect to details furnished vide above reference (iv) have been computed. The voltages likely to be induced on paralleling communication cables of North Central Railway under Single Line to Ground fault conditions are enclosed at Annexure-I. The screening factors as applicable have been considered. Vide reference (v) above, Defense have issued NOC (enclosed as Annexure-II). EPR verification is not required as the associated substations are existing.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken on urgent basis under intimation to this office.

Encl.: As above

Director

To,

1.	Divisional Engineer (PTCC), Western Zone	QA & Inspection circle, 1 st floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santacruz (West), Mumbai-400054	
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2.	ASTE/Tele	North Central Railway, HQ's Office, S&T Branch., Ganga Parisar, Subedarganj, Prayagraj	
3.	Chief Engineer (Plg. & Design)	MPPTCL, Block No. 3, Shakti Bhawan, Rampur, Jabalpur – 482008	Copy for information

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ANNEXURE-II

CEA Case No.: MP-492		Map Scale : 1 cm= 500 m			
Name of the Power line: LILO of one circuit of 220 kV DCDS Gwalior-II to Datia line at 765 kV PGCIL S/s Adupura (Gwalior)		Total Length : 2.8 km			
		S.R. Value : 10000 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 Letter No एनसीआर/एस एंड टी/2074/टेलिकॉम/ पी.टी.सी.सी. (पार्ट-1) Date: 26.08.2022					
1	Gwalior - Sitouli	Out of parallelism			0
2	Sitouli - Sandalpur	0.8	0.0004	17924	7
3	Sandalpur – Antri	Out of parallelism			0

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Annexure-II

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

B/46937/Sigs 7(b)/2697/

31 Aug 2022

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

~~5206~~ 5206
 13/09/22
 S.E.(Planning)
 S.E.(Coordination)
 S.E.(STU Cell)
 S.E.(Design & Estt.)
 S.O.
 SELD
 EE(PTCC)

CONSTRUCTION OF LILO OF ONE CIRCUIT OF 220KV DCDS GWALIOR-II TO DATIA LINE AT 765KV PGCIL S/S ADUPURA (GWALIOR)

1. Refer your letter No. 04-02/PTCC/2697/PS/2769 dt 02 Dec 2021.
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheet received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

Samy
 (PS Samyal)
 Col
 GSO 1 (Comn)
 for ADG T

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

The DET(PTCC), Northern Zone
 O/o PGM (North), QA & Inspection Circle,
 D-Tax Building, Eastern Court, Janpath
 New Delhi-110001

Khanji for n/a