



सत्यमेव जयते

**भारत सरकार**  
**Government of India**  
**विद्युत मंत्रालय**  
**Ministry of Power**  
**केन्द्रीय विद्युत प्राधिकरण**  
**Central Electricity Authority**  
**विद्युत प्रणाली संचार विकास प्रभाग**  
**Power System Communication Development**  
**Division**  
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CEA Case No.: MP-515		
Induced Voltage (IV) calculation for LILO of one circuit of 400 kV D/C Bhopal-Damoh Transmission Line at 400 kV Sagar S/s [Length- 18.863 km]– Regd.		
S. No	Reference No.	Dated
(i)	MPPTCL: 04-02/PTCC/2774/2280	16.10.2023
(ii)	MPPTCL: e-Mail	02.03.2026
(iii)	BSNL: IC/MBI/PTCC/MP	02.03.2026
(iv)	West Central Railway: WCR/N-HQ/120/PTCC Corr./T-50Case No389	09.11.2023
(v)	Defense: B/46937/Sigs7(b)/3570	15.02.2024

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on Block and Telecom circuits of West Central Railway with respect to details furnished vide above reference (iv) has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of West Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. DET-PTCC, BSNL WZ and DG Signals, MoD has issued No Objection Certificate (NOC) vide reference (iii) & (v) respectively.

Taking above into consideration, necessary action for issuance of PTCC route approval (RAC) shall be taken under intimation to this office in the stipulated period as specified in PTCC Manual and subsequent CLPTCC meetings.

As per the decision taken in 111th and 112th CLPTCC meeting, necessary instructions for “Deemed Energization approval” shall be specified while issuing RAC.

Digitally signed by  
 Suman Kumar Maharana  
 Date: 05-03-2026  
 17:37:10

**Chief Engineer**

**To,**

1.	Divisional Engineer (PTCC), Western Zone	QA & Inspection circle, 1 <sup>st</sup> floor, D- wing, BSNL Bldg., Santa Cruz (West), Mumbai-400054	
2.	GM (S&T) West Central Railway	O/o PCSTE, S&T Dept. West Central Railway Annex. Building, Jabalpur	
3.	Chief Engineer Plng & Design	MPPTCL, Jabalpur	Copy for information

**ANNEXURE-I**

<b>CEA Case No.:</b> MP-515			<b>Map Scale</b> : 1 cm= 500 m		
<b>Name of the Power line:</b> LILO of one circuit of 400 kV D/C Bhopal-Damoh Transmission Line at 400 kV Sagar S/s			<b>Total Length</b> : 18.863 km		
			<b>S.R. Value</b> : 10000 Ohm-cm		
<b>S.No.</b>	<b>Telecom. Details</b>	<b>Length of Parallelism in Km.</b>	<b>Mutual Coupling in Ohms.</b>	<b>Effective Fault current in Amps.</b>	<b>I.V in Volts.</b>
West Central Railway: WCR/N-HQ/120/PTCC Corr./T-50Case No389			Dated 09.11.2023		
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1.	Sagour R/s to Makronia R/s	-Out of Parallelism-			
2.	Makronia R/s to Lidhora Khurd R/s	3.0	0.0025	33000	83
3	Lidhora Khurd R/s to Girwar R/s	-Out of Parallelism-			