



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



CEA Case No.: JHR-67		
Induced Voltage computation for PTCC proposal for LILO of 400 kV D/C Kahalgaon A to Maithon B Transmission Line at 400 kV S/s of 2x800 MW Godda Thermal Power Plant (Length: 7.466 km) - Regd.		
S. No	Reference No.	Dated
(i)	M/ Adani Power (Jharkhand) Limited: APIJ/LILO/2025/PTCC	03.05.2025
(ii)	BSNL: DE/ER/PTCC/EJH/400kV/LILOKahalgaonA-MaithonB at Godda/02	18.11.2025
(iii)	Eastern Railway: SG.241/PTCC	02.02.2026
(iv)	Defense: B/46937/Sigs-7(b)/5480	27.03.2026

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on Block and Telecom circuits of Eastern Railway with respect to details furnished vide above reference (iii) has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of Eastern Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered.

DET-PTCC, BSNL EZ and DG Signals, MoD has issued No Objection Certificate (NOC) vide reference (ii) & (iv) respectively. All the end S/s are existing and hence, EPR zone computation is not required.

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: 13-04-2026
13:42:08
Chief Engineer

To,

1.	Divisional Engineer (PTCC), Eastern Zone	BSNL QA & Inspection Circle, QA Bhawan, EP-GP Block, Sector-V, Saltlake, Kolkata	
2.	Dy.CSTE/Tele, ER	O/o Principal Chief Signal & Telecom, Eastern Railway 17 NS Road, 3 rd Floor, Kolkata	Annexure-I
3.	M/ Adani Power (Jharkhand) Limited	Godda- 814133 Jharkhand	Copy for information.

ANNEXURE-I

CEA Case No.: JHR-67			Map Scale : 1 cm= 500 m		
Name of the Power line: LILO of 400 kV D/C Kahalgaon A to Maithon B Transmission Line at 400 kV S/s of 2x800 MW Godda Thermal Power Plant			Total Length : 7.466 km		
			S.R. Value : 50000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
Eastern Railway: SG.241/PTCC			Dated 02.02.2026		
<u>Affected Blocks & Telecom Circuits Details</u>					
1.	Godda to Kathwan Railway Section	1.5	0.0025	33000	83
2.	Kathwan to Poreyahat Railway Section	Out of Parallelism			
3.	Poreyahat to Gangwara Railway Section	Out of Parallelism			