



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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<b>CEA Case No. : GUJ-901</b>		
<b>Induced Voltage (IV) calculation for LILO of 220 kV S/C Chikhli (Ambheta)-Vapi Transmission line at 220 kV Atul S/s. (Length: 4.66 km) –Regd.</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	GETCO:CE(Project)/EE(TR-II)/T-5/6775	08.08.2024
(ii)	GETCO: e-Mail	20.02.2026
(iii)	BSNL: IC/MBI/PTCC/GUJ/2025-26	07.04.2025
(iv)	Western Railway: SG.158/28/12(1417)	10.09.2024
(v)	Defense: B/46937/Sigs 7(b)/4129	30.10.2024

The PTCC proposal submitted vide reference (i) and (ii) has been examined. The LF induction on Block and Telecom circuits of Western 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 Western Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered. DGM Telecom, PTCC, WZ, BSNL, and DG Signals, MoD has issued No Objection Certificate (NOC) vide reference (iii) and (v) respectively.

Since all stations already exist, EPR zone calculation is not warranted.

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.

Encl.: As above

Digitally signed by  
Suman Kumar Maharana  
Date: 24-02-2026  
11:14:27 **Chief Engineer**

**To,**

1.	Divisional Engineer (PTCC),	QA & Inspection circle, 1 st floor, D- wing, BSNL Bldg., Santa Cruz (West), Mumbai-400054	
2.	Principal Chief (S&T), WR	Office of The PCSTE, 5 <sup>th</sup> floor, station Building, Churchgate, Mumbai-400020	Annexure-I
3.	Chief Engineer (Projects)- GETCO	Sardar Patel Vidyut Bhawan, Race Course GETCO, Vadodara	Copy for information.

**ANNEXURE-I**

<b>CEA Case No. : GUJ-901</b>			<b>Map Scale : 1 cm= 500 m</b>		
<b>Name of the Power line:</b> PTCC Proposal of LILO of 220 kV S/C Chikhli (Ambheta)-Vapi Transmission line at 220 kV Atul S/s.			<b>Total Length : 4.66 km</b>		
			<b>S.R. Value : 5000 Ohm-cm</b>		
<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>
<b>Western Railway:SG.158/28/12(1417) Dated 10.09.2024</b>					
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1.	Udava - Pardi	0.5	0.000067	18390	1.24V
2.	Pardi - Atul	0.25	0.000022	27333	0.61V
3.	Atul - valsad	Out of Parallelism			