



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-1082</b>		
<b>Induced Voltage (IV) calculation for PTCC proposal of 220 kV D/C Transmission Line from 220 kV Gavasad S/s to 220 kV Salejada S/s (Length: 96.72 km).</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	GETCO: CE(Project)/EE(TR-3)/3258	10.06.2015
(ii)	GETCO: Email	20.02.2026
(iii)	BSNL: IC/MBI/PTCC/Offline/GUJ-3125	08.12.2025
(iv)	Western Railway: SG.158/28/12/1724	09.02.2026
(v)	Defense: B/46937/Sigs-7(b)/5186	30.12.2025

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

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: 11-03-2026  
15:05:56

**Chief Engineer**

**To,**

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

**ANNEXURE-I**

<b>CEA Case No. : GUJ-1082</b>			<b>Map Scale : 1 cm= 500 m</b>		
<b>Name of the Power line: PTCC proposal of 220kV D/C Transmission Line from 220 kV Gavasad S/s to 220 kV Salejada S/s (Length: 96.72 km).</b>			<b>Total Length : 96.72 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>BSNL : BSNL: IC/MBI/PTCC/Offline/GUJ-3125 Dated 08.12.2025</b>					
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1.	Dhokla Ex -Police station	3.9	0.002055	25300	52
2.	Dhokla Ex- Trusud X Rel	2.6	0.001145	9600	11
3.	Dhokla Ex - kalikunel	4.5	0.002031	25600	52

**ANNEXURE-II**

<b>CEA Case No. : GUJ-1082</b>			<b>Map Scale : 1 cm= 500 m</b>		
<b>Name of the Power line:</b> Induced Voltage (IV) calculation for PTCC proposal of 220kV D/C Transmission Line from 220 kV Gavasad S/s to 220 kV Salejada S/s (Length: 96.72 km).			<b>Total Length : 96.72 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>

Western Railway: SG.158/28/12/1724 Dated 09.02.2026

**Affected Blocks & Telecom Circuits Details**

1	Varsad - Bochasan	Out of Parallelism			
2	Bochasan- Kathana	7.5	0.0123	20100	247
3	Anand -Petlad	Out of Parallelism			
4	Petlad - khambhat	12.2	0.0024	15400	37
5	Rana Pipri - Bhoj Padra	1	0.0001	27500	3
6	Bhoj Padra -Mohba Road	1.45	0.0015	18900	3
7	Mohba Rd- Kural	0.35	0.00009	27800	2.5
8	Kural- Masod Rd	Out of IV consideration zone			
9	Bavla- Dhokla	1.8	0.000873	8000	7
10	Dhokla- Kothgangad	2.75	0.00022	9000	2

