



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. : ORS-228</b>		
<b>Induced Voltage(IV) calculation for PTCC proposal of 400 kV D/C Jeypore - Jagdalpur Transmission Line [Length-68.81 km] - Regd.</b>		
<b>S. No</b>	<b>Reference No.</b>	<b>Dated</b>
(i)	PGCIL: ODP/TBCB/JYP/PTCC/2517	01.07.2024
(ii)	PGCIL: e-Mail	05.01.2025
(iii)	BSNL: DE/ER/PTCC/EOR180720246035/CEA/01	18.03.2025
(iv)	East Coast Railway: ECoR/S&T/BBS/Tele/PTCC/57/4372	17.02.2025
(v)	Defense: B/46937/Sigs7(b)/4127	15.10.2024

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on block & telecom circuits of East Coast Railway with respect to details furnished vide above references (iv) has been computed. The voltages likely to be induced on paralleling block & telecom circuits of East Coast Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors, as applicable, have been considered. DET-PTCC EZ,BSNL and DG Signals, MoD have 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 111<sup>th</sup> and 112<sup>th</sup> CLPTCC meeting, necessary instructions for “Deemed Energization approval” shall be specified while issuing RAC.

**Chief Engineer**

**To,**

1.	Divisional Engineer (PTCC), Eastern Zone	QA & Inspection circle, Q.A Bhawan EP-GP Block, Sector-V, Kolkata	
2.	GM (S&T), ECR Railway	GF, North Block Rail Sadan Bhubaneshwar	
3.	DGM, PPGCIL	400/220 kV Jeypore S/s Jeypore, Odisha	Copy for information.

**ANNEXURE-I**

<b>CEA Case No.:</b> ORS-228			<b>Map Scale</b> : 1 cm= 500 m		
<b>Name of the Power line:</b> 400 kV D/C Jeypore - Jagdalpur Transmission Line.			<b>Total Length</b> : 68.81 km		
			<b>S.R. Value</b> : 15000 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>
East Coast Railway: ECoR/S&T/BBS/Tele/PTCC/57/4372 Dated 17.02.2025					
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1	CJS – JYP Section	3.5	0.0088	22000	194
2	JYP – DIR Section	3.0	0.0068	20500	140
3	DIR- KDPA Section	2.0	0.0061	18600	113
4	KDPA- CJS Section	-Out of Parallelism-			
5	CJS – KPRR Section	7.0	0.0173	15200	263
6	KPRR – AGB Section	4.5	0.0121	14500	175
7	AGB-AGZ Section	5.0	0.0021	16500	35
8	AGZ – NKX Section	-Out of Parallelism-			