



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. : ORS-235		
PTCC proposal of 400 kV D/C Transmission Line from ACPP-II to JSPL, Angul (Length- 4.7 km)- regd.		
S. No	Reference No.	Dated
(i)	JSPL/400 kV TL/PTCC/ANGUL/25-26/97	15.10.2025
(ii)	CEA-PS-17-11(13)/11/2025-PCD Division	24.10.2025
(iii)	BSNL: DE/ER/PTCC/ACPP-II-JSPL/02	14.11.2025
(iv)	East Coast Railway: ECoR/S&T/BBS/Tele/PTCC/57/1090	07.11.2025
(v)	Defense: B/46937/Sigs-7(b)/5312	22.12.2025

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on Block and Telecom circuits of BSNL and East Coast 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 East Coast 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).

Telecom details from BSNL, Railway and Defense were pending and power utility had shown urgency for charging of Transmission Line. In this regard, vide above reference (ii), CEA had recommended issuance of provisional PTCC clearance.

EPR zone for proposed S/s is mentioned below:

Name of the proposed Substation	Half diagonal distance , D/2 (mts)	Fault Current I (kA)	Resistance of Earth Mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7kV	d (mts) at 10kV
400 kV ACPP-II PSS	145.19	20	0.12	665	391	N.A	N.A

As per the Telecom Details submitted by BSNL vide above reference (iii), there is no Telephone Exchange lying within the EPR zone of proposed 400 kV ACPP-II PSS.

Taking above into consideration, necessary action for issuance of final 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

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Eastern Zone	BSNL QA & Inspection Circle, QA Bhawan, EP-GP Block, Sector-V, Saltlake, Kolkata	Annexure-I
2.	Dy.CSTE/Tele&NW/ECOR	O/o Principal Chief Signal & Telecom Engineer, Ground Floor, North Block, Rail Sadan, Bhubaneswar -17	Annexure-II
3.	Managing Director, Jindal Steel & Power Limited	Jindal Centre, Tower-B, Plot No. 2, Sector-32, Gurugram 122001	Copy for information.

ANNEXURE-I

CEA Case No.: ORS-235			Map Scale : 1 cm= 500 m		
Name of the Power line: PTCC proposal of 400 kV D/C Transmission Line from ACPP-II to JSPL, Angul (Length-4.7 km).			Total Length : 4.7 km		
			S.R. Value : 5000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
BSNL : DE/ER/PTCC/ACPP-II-JSPL/02 Dated 14.11.2025					
<u>Affected Blocks & Telecom Circuits Details</u>					
1.	100 PAIR UG COPPER CABLE			IV Less than 430	
2.	10 PAIR UG COPPER CABLE			IV Less than 430	

ANNEXURE-II

CEA Case No.: ORS-235			Map Scale : 1 cm= 500 m		
Name of the Power line: PTCC proposal of 400 kV D/C Transmission Line from ACPP-II to JSPL, Angul (Length-4.7 km).			Total Length : 4.7 km		
			S.R. Value : 5000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
East Coast Railway: ECoR/S&T/BBS/Tele/PTCC/57/1090 Dated 07.11.2025					
<u>Affected Blocks & Telecom Circuits Details</u>					
1.	KPJG-JSPL A Cabin	Out of Parallelism			