



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

CEA Case No.: BHR-193		
IV computation for PTCC proposal of 220 kV D/C Transmission Line from 220/132 kV GSS Chapra, Amnour to 400/220 kV GSS Muzaffarpur (PG) [Length- 65.499 km]– Regd.		
Reference:		
S. No.	Reference No.	Dated
(i)	BSPTCL Letter No: Tele/PTCC/04/2020/201	31.03.2022
(ii)	BSPTCL Letter No: Tele/PTCC/04/2020/94	01.06.2023
(iii)	BSPTCL e-mail	09.06.2023
(iv)	CEA Letter No: CEA-PS-17-11(13)/14/2023-PCD DivisionI/28202/2023	06.06.2023
(v)	East Central Railway : ECR-HQ0SnT(Genl)/13/2022-O/oDy.CSTE/HQ/ECR/2140	14.06.2022
(vi)	Defense : B/46937/Sigs 7(b)/2837	27.04.2022

BSPTCL has submitted PTCC proposal vide reference (i). Block & Telecom details for subject cited transmission line has been received from East Central Railway & Defense vide above reference (v) & (vi) respectively. The needed Block & Telecom details from BSNL are still awaited.

Vide above reference (ii), BSPTCL has shown urgency for charging of the line and requested for provisional PTCC approval. Subsequently, vide reference (iv), CEA has requested DET, PTCC EZ, BSNL to submit the Block & Telecom details for the subject cited Transmission Line at the earliest. However, the details are still awaited from BSNL.

Considering the urgency of the matter, the LF induction on Block and Telecom circuits of East Central Railway with respect to details furnished vide above reference (v) has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of East Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable has been considered. DG Signals, MoD has issued No Objection Certificate (NOC) vide reference (vi).

Taking above into consideration, necessary action regarding issuance of provisional PTCC approval for the subject cited transmission line may be taken under intimation to this office.

Encl.: As above.

Dev. J. B.
Director 13.6.2023

File No.CEA-PS-17-11(13)/21/2022-PCD Division

To,

1.	Divisional Engineer (PTCC), Eastern Zone	BSNL QA & Inspection Circle, QA Bhawan, EP-GP Block, Sector-V Kolkata	
2.	General Manager (S&T)	O/o GM (S&T) East Central Railway Hajipur	
3.	Chief Engineer (Telecom & OPGW)	Bihar State Power Transmission Co. Ltd. 4 th Floor, Vidyut Bhawan Patna	Copy for information

ANNEXURE-I

CEA Case No.: BHR-193 Name of the Power line: 220 kV D/C Transmission Line from 220/132 kV GSS Chapra, Amnour to 400/220 kV GSS Muzaffarpur (PG).			Map Scale : 1 cm= 500 m Total Length : 65.5 km S.R. Value : 15000 Ω-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
East Central Railway Letter No: ECR-HQ0SnT(Genl)/13/2022-O/oDy.CSTE/HQ/ECR/2140 Date: 14.06.2022					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Turki to Ramdayalu Nagar	3.5	0.005	26633	133
2	Ramdayalu Nagar to Muzaffarpur	2.0	0.0004	26540	11
3	Sillaut to Narainpur Annant	-Out of Parallelism-			
4	Narainpur Annant to Muzaffarpur	0.9	0.0002	27400	5
5	Muzaffarpur to Kaparpura	-Out of Parallelism-			