



सत्यमेव जयते

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. : ASM-29		
PTCC approval for 400 kV D/C Lower Subansiri – Bishwanath Chariali Transmission Line-II (185.8 km) - regd.		
S. No	Reference No.	Dated
(i)	POWERGRID: NER/BNC/TLC-15/2021-22/191	16.07.2021
(ii)	POWERGRID: Email	05.01.2023
(iii)	POWERGRID: Email	12.01.2023
(iv)	BSNL: DE/PTCC/ER/PGCIL/Assam/01 (Received on 02.01.2023)	02.03.2022
(v)	North East Frontier Railway: N/146/2/10 Pt.VI (TC)	04.01.2023
(vi)	Defense: B/46937/Sigs 7(b)/2686	27.01.2022

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

EPR Zones for proposed substations are mentioned below.

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current, I (kA)	Resistance of earthmat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
Lower Subansiri	254.95	31.5	0.2972	5296	3417	86	NIL

As per the Telecom Details submitted by BSNL vide above reference (iv), **No Telephone exchange of BSNL** is coming in the EPR zone of proposed Lower Subansiri substation.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

Encl.: As above

Digitally Signed by Upendra Kumar

Date: 20-01-2023 16:02:24

Reason: Approved

Chief Engineer

To,

I.	Divisional Engineer (PTCC), Eastern Zone	BSNL O/o DET(PTCC), Eastern Zone, QA & Inspection Circle, Q.A Bhawan, EP-GP Block, Sector-V, Salt lake, Kolkata-700091.
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File No.CEA-PS-17-11(15)/2/2023-PCD Division

2.	GM(S&T)	North East Frontier Railway, Maligaon, Guwahati - 11	
3.	Chief General Manager	Bishwanath Chariali HVDC Station, POWERGRID	For kind information

ANNEXURE-I

CEA Case No.: ASM-29			Map Scale : 1 cm= 500 m		
Name of the Power line: 400 kV D/C Lower Subansiri – Bishwanath Chariali Transmission Line-II (185.8 km)			Total Length : 185.8 km		
			S.R. Value : 10000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
North East Frontier Railway: N/146/2/10 Pt.VI (TC) Date: 04.01.2023					
Affected block & telecom circuits					
1	Nizchatia – Bishwanath Chariali	Out of IV consideration zone			
2	Bishwanath Chariali - Nizborgang	11	0.0223	12870	287
3	Nizborgang - Helem	13.6	0.0053	11509	61
4	Harmuti - Kathalpukhuri	11.7	0.0263	8289	218
5	Kathalpukhuri - Silanibari	6.8	0.0164	8124	133
6	Boginadi - Gogamukh	12.2	0.0169	10507	178
7	Gogamukh - Bordoloni	Out of IV consideration zone			

Tele : 23019746

ASM-29
(Prop master)

Directorate General of Signals
Signals 7
General Staff Branch
Integrated HQ of MoD (Army)
DHQ PO, New Delhi - 110011


B/46937/Sigs 7(b)/2686

27 Jan 2022

Chief General Manager
Power Grid Corporation of India Limited
P.O. Biswanath Chariali-784178.
Dist. Sivasagar (Assam)

PTCC CLEARANCE FOR 400KV D/C LOWER-SUBANSIRI-BISWANATH
CHARIALI TRANSMISSION LINE-II

1. Refer your letter No NER/BNC/TLC-15/2021-22/191 dt 16 Jul 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheets received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.


(Suresh Pal Choyal)
Lt Col
GSO 1 (Coord)
for SO-in-C

Enclosures : As above

Copy to :-

✓ The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeeb Singh Marg
Katwaria Sarai, New Delhi - 110016

The DET (PTCC), Northern Zone
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

for information

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27/1

