

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



No.: CEA/PCD/ PTCC/ASM-18/407-09

Date: 18.08.2020

Subject: PTCC proposal of 400 kV D/C (Quad) Jigmeling – Alipurduar Transmission line (Assam portion) -regd.

Ref: (i) PGCIL Ref. No. NEBNG/JATL/PTCC/323/2017-18/918 dated 24.01.2018
(ii) BSNL Ref. No. DE/PTCC/ER/EML200220182034 dated 05.04.2018
(iii) Northeast Frontier Railway Ref. No. N/146/2/10 Pt. VI (TC) dated 26.03.2018
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1173 dated 12.09.2018

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on BSNL cables and Northeast Frontier Railway telecom circuits, as per details furnished vide ref. (ii) and (iii) respectively, has been examined. The Soil Resistivity value has been taken as 50,000 Ohms-cm. Voltages likely to be induced on paralleling BSNL cables and Northeast Frontier Railway telecom circuits under single line to ground fault condition are enclosed at Annex-I and Annex-II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III). Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above.

(Upendra Kumar)
Chief Engineer

To,
DE (PTCC), Eastern Region,
Inspection & QA Circle, BSNL
Q.A. Bhawan, EP-GP Block, Sector-V,
Salt Lake, Kolkata – 700091

Copy to:

1. GM (S&T), North East Frontier Railway, Maligaon, Guwahati - 781011 – (with Annex – II)
2. DGM, PGCIL, 400/220 kV Bongaigaon – Salakati Sub-station, Vill. – Fukagaon, PO – Salakati, Dist. – Kokrajhar, Assam - 783369.

MIC

Annex-I

Particulars details of parallel alignment proforma

Case no. DE/P/TCO/ER/EML/2002/10/2034

Map scale : 1:50000

CEA Case No. : ASM-18

Name of the power line : 400 KV D/C (Quad) Jigmeling-Alipurduar Power Transmission line (Assam portion)

SR 50,000 sq. cm

Total length :- 109.3 km

Sl.no.	Telecom circuits	Marked as	Length of parallelism in km	Mutual coupling in Ohms	Effective fault current in Amp.	I.V.in Volts	Safe separation in Yards
1	2	3	4	5	6	7	8
1	Bengtal Telephone exchange - 300 pair U/G cable, distance = 1 km	B					
2	Serfanguri Telephone exchange - 200 pair U/G cable, distance = 1 km	S					
3	Kachugaon Telephone exchange- 200 pair U/G cable, distance= 0.8 km	K					
4	Gurufella Telephone exchange- 300 pair U/G cable, distance= 1 km	G					
5	Gossaigaon Telephone exchange- 400 pair U/G cable, distance= 2 km	GO					
6	Srirampur Telephone exchange- 200 pair U/G cable, distance= 0.8 km	SR					

Prateek

प्रतिकर्षित / PRATEEK SRIVASTAVA
 राजकीय प्रकल्प-II / Asst. Director-II
 कक्षा-1000, नई दिल्ली / C.E.A.
 राज्य मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

ANNEXURE - II

Case No.: ASM-18 Name of the Power line: 400 kV D/C (Quad) Jigmeling - Alipurduar Transmission line (Assam portion)			Map Scale : 1cm=500mts Total Length : 109.3 km. S.R. Value : 50,000 Ohms-cm		
S.No	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

Northeast Frontier Railway					
Ref. No. N/146/2/10 Pt. VI (TC) dated 26.03.2018					
1	Jorai - Srirampur Assam	4.8	0.0060	10000	60
2	Srirampur Assam - Gossaigaon Hat	7.6	0.0079	9000	71
3	Gossaigaon Hat - Chautara	5.2	0.0014	9000	13

Prateek

PRATEEK SRIVASTAVA
 Director-II
 Chief Engineer / C.E.A.
 Ministry of Power
 Govt. of India
 New Delhi

Annex III

Tele : 23019743

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

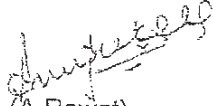
B/46937/Sigs 7(b)/1173

12 Sep 2018

Dy. General Manager
Power Grid Corporation of India Ltd
400/220Kv Bongaigaon-Salakati Sub-Station
VIII-Fukagaon, P.O.-Salakati
Dist.-Kokrajhar, Assam-783369

INSTALLATION OF 400 KV D/C (QUAD) JIGMELLING-ALIPURDUAR
TRANSMISSION LINE (ASSAM PORTION) UNDER TRANSMISSION SYSTEM
STRENGTHENING IN INDIAN SYSTEM FOR TRANSFER OF POWER FROM
MANGDECHHU HYDRO ELECTRIC PROJECT IN BHUTAN-PTCC ROUTE
APPROVAL REGARDS-REQUEST FOR DEFENSE TELECOM ROUTE DETAILS
ALONG THE TRANSMISSION LINE ROUTE

1. Ref your letter No NE/BN/TLC/TS-323/VOL-V/2018-19/262 dt 23 Jun 2018 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are forwarded herewith for your further action.


(A Rawat)
Maj
GSO 1 (Comn)
for SO-in-C

Enclosures : (As above)

Copy to:

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


for information.