



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युतसंचारविकासप्रभाग

Power Communication Development Division



No.: CEA/PCD/ PTCC/WB-131/ 579-581

Date: 22.09.2020

Subject: PTCC proposal of 765 kV D/C (Hexa Zebra) Medinipur - Jeerat Transmission line -regd.

Ref: (i) PMJTL Ref. No. ER-II/KALYANI/PTCC/229 dated 09.05.2018
(ii) BSNL Ref. No. DE/PTCC/ER/EWB020620182132 dated 01.11.2019
(iii) Eastern Railway Ref. No. SG.241/1/1PTCC/251 dated 18.03.2019
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1252 dated 20.11.2018

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on Eastern Railway telecom circuits, as per details furnished vide ref. (iii), has been examined. The Soil Resistivity value has been taken as 15,000 Ohms-cm. Voltages likely to be induced on paralleling Eastern Railway telecom circuits under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. BSNL has accorded NOC vide above ref. (ii). Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-II).

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

o/c

Copy to:

1. PCSTE, Eastern Railway, Netaji Subhas Road, Kolkata - 700001 – (with Annex – I)
2. Chief Manager, Powergrid Medinipur Jeerat Transmission Ltd, A-9/319, Kalyani, Nadia, West Bengal - 741235

ANNEXURE – I

Case No.: WB-131
Name of the Power line:
 765 kV D/C (Hexa Zebra) Medinipur - Jeerat Transmission line

Map Scale : 1cm=500mts
Total Length : 168.922 km.
S.R. Value : 15,000 Ohms-cm

S.No	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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<u>Eastern Railway</u> SG.241/1/PTCC/251 dated 18.03.2019					
1	Ranaghat to Payradanga	0.9	0.0004	16800	7
2	Payradanga to Chakdaha	9.3	0.0041	17000	70
3	Chakdaha to Simurali	4.4	0.0006	19300	12
4	Guptipara to Somra Bazar	2.2	0.0005	16400	8
5	Somra Bazar to Jirat	3.6	0.0008	17100	14
6	Jirat to Khamargachhi	2.7	0.0006	15600	9
7	Magra to Talandu	OUT OF PARALLELISM			0
8	Talandu to Khanyan	0.8	0.0001	13800	1
9	Khanyan to Pandooah	2.55	0.0016	13800	22
10	Chandanpur to Belmuri	0.8	0.0009	11500	10
11	Belmuri to Cheragram	4.6	0.0045	11500	52
12	Cheragram to Gurap	2.5	0.0002	12150	2
13	Tarakeswar to Mayapur	17.3	0.0051	10800	55
14	Mayapur to Arambagh	8.6	0.0011	13900	15

तनुज / TANUJ
असिस्टेंट डायरेक्टर - II / Asst. Director-II
केन्द्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत विभाग / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi

WB-131

Tele : 23019746

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

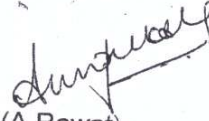
B/46937/Sigs 7(b)/1252/

20 Nov 2018

Chief Manager (TBCB)
PowerGrid Medinipur-Jeerat Transmission Limited
A-9/319, Kalyani, Nadia,
PIN-741235

**PROPOSAL FOR PTCC APPROVAL OF 765 KV D/C (HEXA ZEBRA) MEDINIPUR-
JEERAT T/L**

1. Ref your letter No. ER-II/KALYANI/PTCC/229 dt 09 May 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 returned herewith for your further necessary 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.