



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division

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No.: CEA/PCD/ PTCC/WB-132/582-884

Date: 22.09.2020


**Subject:** PTCC proposal of LILO of 400 kV D/C (Twin Moose) Chanditala – Kharagpur Transmission line at Medinipur -regd.

**Ref:** (i) PMJTL Ref. No. ER-II/TBCB/PMJTL/GBT/PTCC-CKTL/187 dated 28.05.2018  
(ii) BSNL Ref. No. DE/PTCC/ER/EWB020620182133 dated 24.12.2018  
(iii) South Eastern Railway Ref. No. S&T/T/176/PLX/752 dated 19.03.2019  
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1231 dated 20.11.2018

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on telecom cables of BSNL, as per details furnished vide ref. (ii), has been examined. The Soil Resistivity value has been taken as 10,000 Ohms-cm. Voltages likely to be induced on paralleling telecom cables of BSNL under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. As per the annexures submitted vide ref. (iii) above, there are no telecom circuits of South Eastern Railway in the vicinity of proposed transmission line. Therefore, IV has not been calculated for South Eastern Railway circuits. 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.

  
22.09.2020  
(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, South Eastern Railway, Garden Reach, Kolkata – 700043 – (for issuance of NOC)
2. Chief Manager, Powergrid Medinipur Jeerat Transmission Ltd, Powergrid, Easter Regional-II Headquarters, CF-17, Action Area 1C, New Town, Rajarhat, Kolkata - 700156

Annex - I

Particulars details of parallel Telecom alignment proforma

Case no. WB-132  
 SR Value: 10000 Ω-cm  
 scale: 1:50000

Name of the power line : 400 KV D/C CHANDITALA - KHARAGPUR LILO AT MEDINIPUR  
 Total length :- 73 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
14	NERADEUL EXCHANGE	A	}				
a	Neradual exchange to pillar a (200 pr.U/G cable, dist. 2.5 km)						
b	Neradual exchange to pillar b (100 pr.U/G cable, dist. 3 km)						
c	Neradual exchange to pillar c (100 pr.U/G cable, dist. 3.5 km)						
15	CHANDUR EXCHANGE	B	}				
a	Chandur Exchange to pillar a (100 pr U/G cable, dist.1.8 km)						
b	Chandur Exchange to pillar b (50 pr U/G cable, dist. 2 km)						
c	Chandur Exchange to pillar c (200 pr U/G cable, dist.2.5 km)						
16	NARAZOLE EXCHANGE	C	}				
a	Narazole Exchange to a (200 pr U/G cable, dist. 4 km)						
b	Narazole Exchange to b (100 pr U/G cable, dist. 5 km)						
c	Narazole Exchange to c (100 pr U/G cable, dist. 4.5km)						
17	DASPUR EXCHANGE	E	}				
a	Daspur Exchange to a (400 pr.U/G cable, dist. 4 km)						
b	Daspur Exchange to b (100 pr. U/G cable, dist. 5 km)						
c	Daspur Exchange to c (200 pr. U/G cable, dist. 4.5 km)						

I.V LESS THAN 430 V

Proven

प्रतीक शीतल/PIRATEK SARIASTAVA  
 प्रमुख निरीक्षक-I / Asstt. Director-II  
 केन्द्रीय विद्युत निरीक्षण/ C.E.A.  
 विद्युत निरीक्षण/ Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

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)/1231/

20 Nov 2018

Chief Manager (TBCB Project)  
PowerGrid Medinipur-Jeerat Transmission Limited  
Power Grid, Eastern Regional-II Headquarters  
CF-17, Action Area IC, New Town,  
Rajarhat, Kolkata-700 156

**PROPOSAL FOR PTCC APPROVAL OF 400 KV D/C (TWIN MOOSE) CHANDITALA-KHARAGPUR LILO AT MEDINIPUR**

1. Ref your letter No. ER-II/TBCB/PMJTL/GBT/PTCC-CKTL/187 dt 28 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.

*(Signature)*  
(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.