



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

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No.: CEA/PCD/ PTCC/BHR-162/ ५३० -३२

Date: 26.08.2020


**Subject:** PTCC proposal of 400 kV D/C Sitamarhi (New) – Motihari Transmission line -regd.

**Ref:** (i) PGCIL Ref. No. ER-I/PAT/ENGG/PTCC/LILO SAHARSA/58/4172 dated 26.07.2019  
(ii) BSNL Ref. No. DE/PTCC/ER/EJH050820192538/01 dated 12.09.2019  
(iii) East Central Railway Ref. No. ECR/S&T/PTCC/134, Pt.III dated 22.09.2019  
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1759 dated 05.09.2018

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on East Central Railway telecom circuits, as per details furnished vide ref. (iii), has been examined. The Soil Resistivity value has been taken as 5,000 Ohms-cm. Voltages likely to be induced on paralleling East Central 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.

  
26.08.2020  
(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

M/L

**Copy to:**

1. GM (S&T), East Central Railway, Hajipur, Bihar - 844101 – (with Annex – I)
2. Sr. GM (Engg.), PGCIL, Eastern Region-I RHQ, Board Colony, Shastri Nagar, Patna, Bihar - 800023

## ANNEXURE - I

Case No.: BHR-162

Name of the Power line:

400 kV D/C Sitamarhi (New) – Motihari Transmission line

Map Scale : 1cm=500mts

Total Length : 85.529 km.

S.R. Value : 5,000 Ohms-cm

S.No	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts
<b>East Central Railway</b>					
ECR/S&T/PTCC/134, Pt.III dated 22.09.2019					
1	Chakia – Pipra	2.1	0.0023	9400	22
2	Pipra – Jiwadhara*	3.8	0.0005	10000	5

\*Name of section at serial number 2 of Annexure A enclosed with East Central Railway letter no. ECR/S&T/PTCC/134, Pt.III dated 22.09.2019 was mentioned as “Pipra – Jogiara”. However, from topo map, it was found that affected section is “Pipra – Jiwadhara” and accordingly IV calculation was done on “Pipra – Jiwadhara” section.

*Prateek*

Annex-II

Tele : 23019746

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

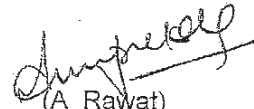
B/46937/Sigs 7(b)/1759/

05 Sep 2019

Sr. General Manager (Engg)  
Power Grid Corporation of India Limited  
Eastern Region-I RHQ, Board Colony  
Shastri Nagar, Patna-800023 (Bihar)

**PROPOSAL FOR PTCC APPROVAL FOR CONSTRUCTION OF 400KV D/C (TRIPLE SNOW BIRD) SITAMARHI-MOTIHARI TRANSMISSION LINE, ASSOCIATED WITH ERSS-XXI UNDER TARIFF BASED COMPETITIVE BIDDING (TBCB) PROJECTS**

1. Ref your letter No ER-I/PAT/ENGG/PTCC/LILO SAHARSA/58/4172 dt 26 Jul 2019. (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet 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

Divisional Engineer Telegraph (PTCC)  
O/o GM (North); BSNL, QA & Inspection Circle,  
CTS Compound, Africa Avenue Road,  
Netaji Nagar, New Delhi-110023

for information