



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युतसंचारविकासप्रभाग

Power Communication Development Division

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No.: CEA/PCD/ PTCC/BHR-165/559-6 ]

Date: 21.09.2020

**Subject:** PTCC proposal of 220 kV D/C Sitamarhi (New) – Motipur GSS transmission line -regd.

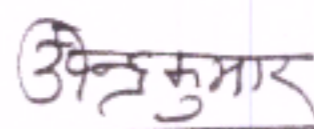
**Ref:** (i) BSPTCL letter no. 1349 dated 29.07.2019  
(ii) BSNL Ref. No. DE/PTCC/ER/EBR130820192548/01 dated 10.12.2019  
(iii) East Central Railway Ref. No. ECR/S&T/PTCC/134, Pt. III/1752 dated 07.07.2020  
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1762 dated 11.09.2019

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on telecom cables of BSNL and block & telecom circuits of East Central Railway, as per details furnished vide ref. (ii) and (iii) respectively, 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 and block & telecom circuits of East Central Railway under single line to ground fault condition are enclosed at Annex-I & 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.

M/C

  
(Upendra Kumar)  
21.09.2020  
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. General Manager (S&T), East Central Railway, Hajipur, Bihar - 844118 – (with Annex – II)
2. Electrical Superintending Engineer, Bihar State Power Transmission Co. Ltd, Transmission Circle, Muzaffarpur, Bihar - 842001

BHR-165 220 kV D/C Sitamashi (New) - Motipur GSS T/L  
 Details particular of the Telecom Alignment in connection with 220 KV D/C T/L of Sitamashi (New) - Motipur GSS T/L and 220 KV D/C

SR volume 10000 Ω-cm

Name of Exchange:

Sl.No.	Name of the Telecom Alignment	Along Road or Rail	Average Separation From Road or Rail	Length	Full Name of the Circuits	Metallic or Earth Return	Marked Intermediate or Tapping	Remarks	Induced Voltage (EV)
1.	Motipur main T-6	N.H-28	4.5 km	4.5 km	OFC-24F	N/A	N/A		
2.	DELHANSI TELEPHONE ROAD		80	80	TELEPHONE EXCHANGE			known - known	IV less than 430 V
3.	OFC 24F Bermani Col Durga Bheel	ROAD	500	500	OFC Bermani Col			known - known	

Prateek

श्री प्रवीण शर्मा / PRATEEK SRIVASTAVA  
 सहायक निदेशक-II / Asstt. Director-II  
 क्षेत्रीय विद्युत निदेशक/ C.E.-A.  
 विद्युत निदेशक / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

## ANNEXURE - II

Case No.: BHR-165 Name of the Power line: 220 kV D/C Sitamarhi (New) – Motipur GSS transmission line		Map Scale : 1cm=500mts Total Length : 52.141 km. S.R. Value : 10,000 Ohms-cm			
S.No	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	IV in Volts.

<b>East Central Railway</b> ECR/S&T/PTCC/134, Pt. III/1752 dated 07.07.2020					
1	Mahesi – Mahwal	0.9	0.0011	9400	10
2	Mahwal – Motipur	4.4	0.0025	9100	23
3	Sitamarhi – Dumra	OUTSIDE IV CALCULATION CONSIDERATION ZONE			0
4	Dumra – Garha	0.3	0.0001	9300	1
5	Garha - Runidaidpur	OUTSIDE IV CALCULATION CONSIDERATION ZONE			0

*Prateek*

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
सहायक निदेशक-II / Asstt. Director-II  
केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
विद्युत मंत्रालय / Ministry of Power  
भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi

Tele : 23019746

Annexure - III

BHR-165

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

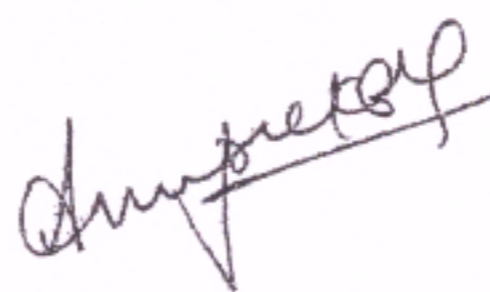
B/46937/Sigs 7(b)/1762/

11 Sep 2019

Er. A.S. Azam Khan  
Electrical Superintending Engineer  
Bihar State Power Transmission Co. Ltd.  
Transmission Circle Muzaffarpur  
Muzaffarpur-842001(Bihar)

**CONSTRUCTION OF 220KV D/C SITAMARHI (NEW) TO MOTIPUR GSS TRANSMISSION LINE  
ON TURNKEY BASIS**

1. Ref your letter No 1349/Muzaffarpur dt 29 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