



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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15  
YEARS OF  
CELEBRATING  
THE MAHATMA

No.: CEA/PCD/ PTCC/BHR-166/562-64

Date: 21.09.2020

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

**Ref:** (i) BSPTCL letter no. 1350 dated 29.07.2019  
(ii) BSNL Ref. No. DE/PTCC/ER/EBR130820192549/01 dated 10.12.2019  
(iii) East Central Railway Ref. No. ECR/S&T/PTCC/134, Pt. III dated 08.07.2020  
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1763 dated 05.09.2019

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

उपेन्द्र कुमार  
21.09.2020  
(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

**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

Annex - I

BHR-166

Details Particular of the Telecom Alignment in Connection with (220kv Raxaul(New)-Sitamarhi(new) T/L Offered by BSPTCL, Patna, Name Of the Exchange:

SR Value : 10000 Ω-cm

SL.No.	Name of the Telecom Alignment	Along Road or Rail	Average Separation From Road & rail	Length	Full Name Of the Circuits	Metallic or Earth Return	Marked Intermediat: Tapping
1	Sugauli	NH-28B	AP 4	4.5	BTS, Copperline	Copper	
2	Chhapwa	NH 28	AP 10	7 Km	OFC, MiniLink		
3	Ramgarhwa	NH 28	AP 1	6 Km	BTS, miniLink		
4	Patan		AP 8	4 Km	BTS, miniLink		
5	Janerawa		AP 12	3 Km	BTS, miniLink		
6	Semara	NH 28	AP 11	7 Km	BTS, Copperline, miniLink, OFC		
7	Lakhaura		AP 15	2 Km	BTS, Copperline, miniLink, OFC		
8	Narkatia		AP 12	8 Km	BTS, Copperline, miniLink, OFC		
9	Semarahiya		AP 14	4.5 Km	BTS, Copperline, miniLink, OFC		
10	Chirahiya		AP 20	2 Km	BTS, Copper Landline, miniLink, OFC		
11	Kapur Pakari		AP 25	1.5 Km	BTS, mini Link		
12	Barharwa Lakhans		AP 27	1.8 Km	BTS, miniLink		
13	Harnatha		AP 27	2.5 Km	BTS, OFC		
14	Dalpat Bishunpur		AP 29	1.5 Km	BTS, miniLink		
15	Patati		AP 28	5 Km	BTS, OFC, Landline mini link		
16	Dhaka		AP 25	4.5 Km	BTS, OFC, Landline, miniLink		
17	Panch Pakari		AP 30	2.5 Km	BTS, OFC, miniLink		
18	Jihuli		AP 34	1.5 Km	BTS, OFC, miniLink		
19	Sapahi		AP 31	3 Km	BTS, miniLink		
20	Kushmaha		AP 29	7.5 Km	BTS, Landline, miniLink		

(1/2)

Induced Voltage (I.V.)  
IV Less than 430V

Prokesh

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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

X

0 Motipur GSS T/L and 220 KV D/C

Details particular of the Telecom Alignment in connection with (220 KV D/C T/L of Patna) - Patna (New) - 0 Motipur GSS T/L and 220 KV D/C  
Patna (New) - Raxaul (New) T/L offered by BSEPTCL, Patna  
 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 (IV)
1.	Mohipura mouj T.E	N.H-28	4.5 km	4.5 km	OFC-24F	N/A	N/A		IV less than 430V
2.	BELLAH T.E (MANARA ROAD)		80	80	TELEPHONE EXCHANGE			Remains - Manspurni	
3.	OFC 24F Bermania Col (Dumra Bocol)	ROAD	500	500	OFC Bermania Col			Remains - Remains	

Prateek

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

(2/2)

## ANNEXURE - II

Case No.: BHR-166 Name of the Power line: 220 kV D/C Sitamarhi (New) - Raxaul (New) transmission line		Map Scale : 1cm=500mts Total Length : 87.745 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.

<u>East Central Railway</u> ECR/S&T/PTCC/134, Pt. III dated 08.07.2020					
					0
1	Dhang - Riga	3.4	0.0003	7200	2
2	Riga - Sitamarhi				0
3	Sitamarhi - Parsauni				0
4	Sitamarhi - Dumra	0.5	0.0001	10000	1
5	Dumra - Garha				0
6	Semra - Sugauli				0
7	Sugauli - Ramgarhwa	2.4	0.0032	9100	29

*Prateek*  
 प्रतीक श्रीवर्षित्त / PRATEEK SHIVASTAVA  
 सहायक ज्येष्ठ डी.ए.सी. / Sr. Asst. Dir. (S&T)-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत विभाग / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

B/46937/Sigs 7(b)/1763/

05 Sep 2019

Dr. 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 RAXAUL (NEW) GSS  
TRANSMISSION LINE ON TURNKEY BASIS**

1. Ref your letter No 1350/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.

*(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

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

} for information

*श. सतु. रा. न.*  
*मर. अ.*  
*20/9*

