

dt. 21.06.22
52

File No.CEA-PS-17-11(13)/16/2022-PCD Division

1531-534

I/22257/2022



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

CEA Case No.: BHR-171	Dated: 21.06.2022
PTCC proposal for 220 kV D/C transmission line from Biharsharif GSS to Asthawan GSS: 20.175 km	

Reference:		
S. No.	Reference No.	Dated
(i)	BSPTCL: Tele/PTCC/09/2021/38 & Tele/PTCC/09/2021/305	22.01.2021, 25.05.2022
(ii)	BSNL: DE/PTCC/ER/Bihar/BSPTCL/01	13.12.2021
(iii)	East Central Railway: ECR-HQ0SnT(CPTC)/1/2020-O/o Dy. CSTE/HQ/ECR	23.03.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2324	17.03.2021

The PTCC proposal submitted vide reference (i) has been examined. The low frequency induction on telecom cables of BSNL and Block & Telecom circuits of East Central Railway with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The 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 Annexure-I and Annexure-II respectively. The screening factors, as applicable, have been considered. Vide above reference (iv), Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annexure-III).

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken.

Encl.: As above.

Sd/-
Director

To,

1.	DET (PTCC), Eastern Zone	BSNL; QA & Inspection Circle, Q.A. Bhawan, EP-GP Block, Sector-V, Salt Lake, Kolkata-700091.	Annexure-I & Annexure-III
2.	Dy. CSTE/HQ	East Central Railway; O/o General Manager (S&T), East Central Railway, Hajipur, District- Vaishali-844101.	Annexure-II
3.	Chief Engineer (System Operation)	BSPTCL; 4 th Floor, Vidyut Bhavan, Bailey Road, Patna-800021.	Copy for information

dt 21.06.2022

I/22257/2022

File No.CEA-PS-17-11(13)/16/2022-PCD Division

/532-534 53



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आज़ादी का
अमृत महोत्सव

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

के.वि.प्रा. केस सं.: BHR-171	दिनांक: 21.06.2022
पी.टी.सी.सी. प्रस्ताव 220 kV D/C transmission line from Biharsharif GSS to Asthawan GSS: 20.175 km	

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	BSPTCL: Tele/PTCC/09/2021/38 & Tele/PTCC/09/2021/305	22.01.2021, 25.05.2022
(ii)	BSNL: DE/PTCC/ER/Bihar/BSPTCL/01	13.12.2021
(iii)	East Central Railway: ECR-HQOSnT(CPTC)/1/2020-O/o Dy. CSTE/HQ/ECR	23.03.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2324	17.03.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। उपर्युक्त संदर्भों (ii) और (iii) में दिए गए विवरणों के संबंध में बीएसएनएल के दूरसंचार केबलों और पूर्व मध्य रेलवे के ब्लॉक और दूरसंचार सर्किटों पर क्रमशः कम आवृत्ति प्रेरण की गणना की गई है। सिंगल लाइन टू ग्राउंड फॉल्ट की स्थिति के तहत बीएसएनएल और पूर्व मध्य रेलवे के ब्लॉक और टेलीकॉम सर्किट के समानांतर दूरसंचार केबलों पर प्रेरित होने की संभावना वाले वोल्टेज क्रमशः अनुलग्नक- I और अनुलग्नक- II में संलग्न हैं। स्क्रीनिंग कारकों पर विचार कर लिया गया है। उपरोक्त संदर्भ (iv) द्वारा, रक्षा प्राधिकरण ने अनापत्ति प्रमाण पत्र (एनओसी) जारी किया है। (एक प्रति अनुलग्नक-III के रूप में संलग्न है)

उपरोक्त को ध्यान में रखते हुए, पीटीसीसी मार्ग अनुमोदन जारी करने के लिए आवश्यक कार्रवाई की जाए।

संलग्न: उपरोक्त अनुसार

Sd/-
निदेशक

सेवा में,

✓ 1.	डीईटी (पीटीसीसी), पूर्वी क्षेत्र	बीएसएनएल; क्यूए और निरीक्षण सर्कल, क्यूए भवन, ईपी-जीपी ब्लॉक, सेक्टर-V, साल्ट लेक, कोलकाता-700091	अनुलग्नक- I & अनुलग्नक- III
✓ 2.	उप . सीएसटीई/मुख्यालय	पूर्व मध्य रेलवे; कार्यालय महाप्रबंधक (एस एंड टी), पूर्व मध्य रेलवे, हाजीपुर, जिला-वैशाली- 844101	अनुलग्नक- II
✓ 3.	मुख्य अभियंता (सिस्टम ऑपरेशन)	बीएसपीटीसीएल; चौथी मंजिल, विद्युत भवन, बेली रोड, पटना-800021	जानकारी हेतु

Kind attention: DET, Eastern Region, BSNL

With a request to properly furnish the details in annex provided by BSNL, CFA

(Annexure - I)

Particulars Details of parallel Telecom alignment proforma which are mark in TOPOSHEET (ANNEX -1)

CEA. BHR-171

Name of Power Line 220KV D/C GSS

SI No. 1

TELECOM CIRCUITS (EXCHANGE NAME)

1

EXCHANGE NAME

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Map scale: 1"=1mile/1cm=500Mts.

Total length: 20.175 Km

S.R. : 25,000 sqm

Marked as per toposheet by the survey officer of BSNL (Top sheet is also enclosed with marking)

Beharsahally (Urban) TE & GSS

IV less than 430V

Paradipuri TE } IV less than 430V

Melalpur RTX

Tungi BISSX

Ashkaram TE } IV less than 430V

Baman TE } IV less than 430V

5 Km from beam line Equip. - RTS

Medium, Mainlink, Vmms, No cable

2 Km from beam line Equip. - RTS

4 Km from beam line Equip. - RTS

5 Km from beam line Equip. - RTS

RTS, Mainlink, Vmms

5 Km from beam line Equip. - RTS, Mainlink

Director-II/Asst. Director-II
Dept. Secy./Ministry of Power
New Delhi-110002


ANNEXURE - II**CEA Case No.: BHR-171****Name of the Power line:** 220 kV D/C transmission line from Bihar Sharif GSS to Asthawan GSS.**Map Scale** : 1 cm=500 m**Total Length** : 20.175 km**S.R. Value** : 25,000 ohm-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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East Central Railway: ECR-HQ0SnT(CPTC)/1/2020-O/o Dy. CSTE/HQ/ECR Dated : 23.03.2021

Affected Telecom Circuits Details

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
1	Nalanda to Pawapuri Road				00
2	Pawapuri Road to Bihar Sharif	4.4	0.0079	7822	62
3	Bihar Sharif to Wena	2.1	0.0008	6767	06


TANUJ
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-68

Tele: 23019746

(Annexure-III)

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

B/46937/Sigs 7(b)/2324/

17 Mar 2021

Chief Engineer (System Operation)
Bihar State Power Transmission Co. Ltd.
4th Floor, Vidyut Bhavan, Bailey Road
Patna-800 021

Reference
[Signature]
[Signature]
[Signature]
25/03/21

PROPOSAL FOR SEEKING PTCC CLEARANCE FOR 220KV D/C BIHARSHARIF-
ASTHAWAN TRANSMISSION LINE

1. Refer your letter No 38/Tele/PTCC/08/2021 dt 22 Jan 2021. (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

for information

The DET(PTCC), Northern Zone
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

B/C.E (SO)
25-03-21