

I/23102/2022



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

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CEA Case No. : WB-141	Date: 05.08.2022
BSNL Work Order No. -----	
Subject: - PTCC proposal of 400 kV D/C Quad (ACSR Moose) Jeerat (New) to Subhasgram transmission line: 106.836 km	

Reference:		
S. No.	Reference No.	Dated
(i)	Powergrid Medinipur Jeerat Transmission Ltd.: ER-II/KALYANI/PTCC/1691	15.02.2020
(ii)	BSNL: DE/PTCC/ER/EWB270120212901/02 (received from Power Utility via email dated 14.07.2022)	08.04.2022
(iii)	Eastern Railway: SG.241/1/PTCC/281	28.03.2022
(iv)	Defense: B/46937/Sigs 7(b)/2015	01.07.2020

The PTCC proposal submitted vide reference (i) has been examined. BSNL vide reference (ii) has conveyed NOC for the proposed power line. The LF induction on block & telecom circuits of Eastern Railway with respect to details furnished vide above reference (iii) has been computed. The voltages likely to be induced on paralleling block & telecom circuits of Eastern Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable, have been considered. Defense Authority vide above reference (iv) has issued NOC (enclosed at Annexure-II).

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

**Encl.:** As above.

  
**Chief Engineer**

To,

1.	Divisional Engineer (PTCC), Eastern Zone	BSNL O/o DET(PTCC), Eastern Zone, QA & Inspection Circle, Q.A Bhawan, EP-GP Block, Sector-V, Salt lake, Kolkata-700091.	Annexure-II only
2.	Dy. CSTE/Tele/HQ	O/o PCSTE, Eastern Railway, 17, Netaji Subhas Rd, Fairley Place, B.B.D. Bagh, Kolkata, West Bengal 700001.	Annexure-I only
3.	Dy. General Manager	Powergrid Medinipur Jeerat Transmission Ltd., A-9/319, Kalyani, Nadia-741235.	Copy for information

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**Power Communication Development Division**

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के.वि.प्रा. केस सं. : WB-141	दिनांक: 05.08.2022
BSNL Work Order No. -----	
पी.टी.सी.सी. प्रस्ताव 400 kV D/C Quad (ACSR Moose) Jeerat (New) to Subhasgram transmission line: 106.836 km	

सन्दर्भ:		
क्रमांक	सन्दर्भ सं.	दिनांक
(i)	Powergrid Medinipur Jeerat Transmission Ltd.: ER-II/KALYANI/PTCC/1691	15.02.2020
(ii)	BSNL: DE/PTCC/ER/EWB270120212901/02 (ईमेल द्वारा दिनांक 14.07.2022 को पावर यूटिलिटी से प्राप्त हुआ)	08.04.2022
(iii)	Eastern Railway: SG.241/1/PTCC/281	28.03.2022
(iv)	Defense: B/46937/Sigs 7(b)/2015	01.07.2020

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल ने संदर्भ (ii) द्वारा प्रस्तावित विद्युत लाइन के लिए अनापति प्रमाण पत्र प्रदान किया है। पूर्वीय रेल के ब्लॉक एवं टेलिकॉम सर्किटों पर निम्न आवृत्ति प्रेरण गणना उपरोक्त संदर्भ (iii) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर पूर्वीय रेल के ब्लॉक एवं टेलिकॉम सर्किटों पर प्रेरित वोल्टेज अनुलग्नक-1 में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है। रक्षा प्राधिकरण ने उपरोक्त संदर्भ (iv) के द्वारा अनापति प्रमाण पत्र जारी किया है। (अनुलग्नक-1 में संलग्नित)

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

**संलग्न:** उपरोक्त अनुसार

*उपेन्द्रकुमार*  
**मुख्य अभियंता**


**सेवा में,**

1.	मंडल अभियंता (पीटीसीसी), पूर्वी क्षेत्र	बीएसएनएल ओ / ओ डीईटी (पीटीसीसी), पूर्वी क्षेत्र, क्यूए और निरीक्षण सर्कल, क्यूए भवन, ईपी-जीपी ब्लॉक, सेक्टर-वी, साल्ट लेक, कोलकाता-700091	केवल अनुलग्नक-11
2.	उप.सीएसटीई/टेली/HQ	O/o पीसीएसटीई, पूर्वी रेलवे, 17, नेताजी सुभाष रोड, फेयरली प्लेस, बी.बी.डी. बाग, कोलकाता, पश्चिम बंगाल-700001	केवल अनुलग्नक-1
3.	उपप्रबंधक	पावरग्रिड मेदिनीपुर जीरात ट्रांसमिशन लिमिटेड, ए-319/9, कल्याणी, नादिया741235-	जानकारी हेतु

**ANNEXURE – I**

<b>CEA Case No.: WB-141</b> <b>Name of the Power line: 400 kV D/C Quad (ACSR Moose)</b> <b>Jeerat (New) to Subhasgram transmission line.</b>		<b>Map Scale : 1 cm=500 m</b> <b>Total Length : 106.836 km</b> <b>S.R. Value : 50,000 Ω-cm</b>			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

EASTERN RAIWAY Ref. No: SG.241/1/PTCC/281 Dated: 28.03.2022					
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1	Madhyamgram to Barasat Junction	Outside IV Consideration Zone			00
2	Barista Junction to Bamangachi	Outside IV Consideration Zone			00
3	Bamangachi to Duttapukur	Outside IV Consideration Zone			00
4	Duttapukur to Bira	Outside IV Consideration Zone			00
5	Bira to Guma	Outside IV Consideration Zone			00
6	Guma to Ashoknagar Road	Outside IV Consideration Zone			00
7	Ashoknagar Road to Habra	0.4	0.0002	48305	10
8	Habra to Machlandapur	5.4	0.0011	45020	50
9	Barasat to Sondalla	Outside IV Consideration Zone			00
10	Sondalla to Labutala	3.1	0.0010	32024	33
11	Labutala to Harua Road	5.4	0.0049	27020	133
12	Sonarpur to Baruipur	1.3	0.0022	39213	87
13	Baruipur to Hotar	Out of Parallelism			00
14	Baruipur to Dhapdhapi	Out of Parallelism			00
15	Dhapdhapi to Gocharan	Outside IV Consideration Zone			00
16	Sonarpur to Champahati	1.8	0.0073	38773	283
17	Champahati to Ghutiari Shariff	3.5	0.0014	36011	51
18	Ghutiari Shariff to Taldi	Outside IV Consideration Zone			00
19	Taldi to Canning	Outside IV Consideration Zone			00

  
**तनुज / 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-66

Tele : 23019746

WB-141  
(Annexure-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)/2015/

01 Jul 2020

Deputy General Manager  
Powergrid Medinipur Jeerat Transmission Limited  
A-9/319, Kalyani, Nadia, Pin Code-741235

**PROPOSAL FOR PTCC APPROVAL OF 400KV D/C QUAD (ACRS MOOSE) JEERAT (NEW)-  
SUBHASGRAM TRANSMISSION LINE**

1. Ref your letter No ER-II/KALYANI/ PTCC/1691 dt 15 Feb 2020 (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