

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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के.वि.प्रा. केस सं. : WB-143/412-414  
पी.टी.सी.सी. प्रस्ताव 220 kV DC line from Parulia substation to Burdwan substation of DVC with SC LILO at proposed Panagarh substation (101.641 km)

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	DVC: TSC-1/W-287/272	03.07.2021
(ii)	BSNL: DE/PTCC/EWB070720213354/02 received from DVC via email dated 26.03.2022	10.12.2021
(iii)	Eastern Railway: SG.241/1/PTCC/272	07.12.2021
(iv)	Defense: B/46937/Sigs 7(b)/2475	26.11.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल ने उपरोक्त संदर्भ (ii) के द्वारा अवगत कराया है कि पावर लाइन के दायरे में कोई टेलिकॉम लाइन नहीं 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 अनापत्ति प्रमाण पत्र जारी किया है। (अनुलग्नक-1 में संलग्न)।

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

संलग्न: उपरोक्त अनुसार

राधकान्त प्रसाद मिश्रा

निदेशक 24.05.2022

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.	केवल अनुलग्नक-1।
2.	Dy. CSTE	O/o PCSTE, Eastern Railway, 17, Netaji Subhas Rd, Fairley Place, B.B.D. Bagh, Kolkata, West Bengal 700001	केवल अनुलग्नक-1।
3.	Superintending Engineer (E), TSC-1	Damodar Valley Corporation, Transmission System Construction DTPS, Durgapur, WB - 713207	जागरूकी हेतु

M/c



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जासादीका  
अमृत महात्सव

भारत सरकार  
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विद्युत मंत्रालय  
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Central Electricity Authority  
विद्युत संचार विकास प्रभाग  
Power Communication Development Division  
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CEA Case No. : WB-143/412-414  
PTCC proposal of 220 kV DC line from Parulia substation to Burdwan substation of DVC with SC LILO at proposed Panagarh substation (101.641 km)

Reference:		
S. No.	Reference No.	Dated
(i)	DVC: TSC-I/W-287/272	03.07.2021
(ii)	BSNL: DE/PTCC/EWB070720213354/02 received from DVC via email dated 26.03.2022	10.12.2021
(iii)	Eastern Railway: SG.241/1/PTCC/272	07.12.2021
(iv)	Defense: B/46937/Sigs 7(b)/2475	26.11.2021

The PTCC proposal submitted vide reference (i) has been examined. BSNL, vide reference (ii) has informed that there are no telecom lines within 8 km of both sides of the 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.

अप्रवेन्द्र प्रसाद मिश्रा  
Director 21.05.2022

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	O/o PCSTE, Eastern Railway, 17, Netaji Subhas Rd, Fairley Place, B.B.D. Bagh, Kolkata, West Bengal 700001.	Annexure-I only
3.	Superintending Engineer (E), TSC-1	Damodar Valley Corporation, Transmission System Construction DTPS, Durgapur, WB - 713207.	Copy for information

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**ANNEXURE - I**

**CEA Case No.: WB-143**

**Name of the Power line:** 220 kV DC line from Parulia substation to Burdwan substation of DVC with SC LILO at proposed Panagarh substation (101.641 km)

**Map Scale** : 1 cm=500 m

**Total Length** : 101.641 km

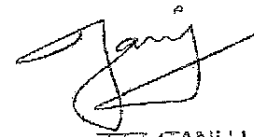
**S.R. Value** : 15,000 Ω-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	IV in Volts.
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EASTERN RAIWAY Ref. No: SG.241/1/PTCC/272 Dated: 07.12.2021

**Affected Blocks & Telecom Circuits Details**

1	Bardhaman Jn. - Talit	5.5	0.0042	10000	42
2	Talit - Khana Jn.	5.8	0.0053	8800	47
3	Khana Jn. - Khana L/C	2.6	0.0019	8500	16
4	Khana L/C - Galsi	6.7	0.0097	7200	70
5	Galsi - Paraj	6.4	0.0082	7000	57
6	Paraj - Mankar	7.5	0.0093	6250	58
7	Mankar - Panagarh	4.5	0.0016	5800	9
8	Panagarh - Rajbandh	Outside IV consideration zone			0
9	Khana Jn. - Jhapter Dhal	2.6	0.0005	8500	4
10	Jhapter Dhal - Bonpas	2.1	0.0002	8500	2



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

(Annexure-II)

WB-143

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


B/46937/Sigs 7(b)/2475/

2 Nov 2021

Office of the Superintending Engineer (E)  
Transmission System Construction Division-I  
Damodar Valley Corporation  
Durgapur, West Bengal-713207

**PTCC APPROVAL OF 220KV DOUBLE CIRCUIT LINE FROM PARULIA  
SUBSTATION TO BURDWAN SUBSTATION WITH SINGLE CIRCUIT LILO AT  
PROPOSED PANAGARH SUBSTATION OF DAMODAR VALLEY  
CORPORATION IN THE STATE OF WEST BENGAL**

1. Refer your letter No. TSC-I/W-287/274 dt.03 Jul 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheet received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

  
(Anurag Mishra)  
Lt Col  
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

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

for information

1068

28/11/21