



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. : GUJ-799:
PTCC proposal of 220 kV D/C transmission Line on D/C tower from 400 kV Bhogat S/S to 220 kV Bhatiya S/S: 12.84 km

Reference:		
S. No.	Reference No.	Dated
(i)	GETCO:CE(Project)/SE(planning)/914	29.07.2020
(ii)	BSNL: IC/MBI/PTCC/GUJ-2834	17.10.2020
(iii)	Western Railway: SG. 158/28/12(1169)	27.09.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2133	07.12.2020

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of Western 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 Western 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 reference (iv) above, The Defence Authority have issued No Objection Certificate (NOC). (a copy enclosed as Annexure-III).

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

Encl.: As above.

प्रमाणित प्रमाणित  
22.03.22  
Director

To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL; Inspection Circle, 3 <sup>rd</sup> Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054.	Annexure-I & Annexure-III only
2.	Dy. CSTE/Tele/CCG.	Western Railway; O/o CSTE, S&T Dept., 5 <sup>th</sup> floor, Station Building, Churchgate, Mumbai-400020.	Annexure-II only
3.	Chief Engineer (Project)	GETCO; Sardar Patel Vidyut Bhavan, Race Course, Vadodara-390007.	Copy for information

Atte: -

File No.CEA-PS-17-11(12)/19/2022-PCD Division / 281-283



आजादी का  
अमृत महोत्सव

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Power Communication Development Division  
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के.वि.प्रा. केस सं. : GUJ-799:

पी.टी.सी.सी. प्रस्ताव 220 kV D/C transmission Line on D/C tower from 400 kV Bhogat S/S to 220 kV Bhatiya S/S: 12.84 km

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	GETCO:CE(Project)/SE(planning)/914	29.07.2020
(ii)	BSNL: IC/MBI/PTCC/GUJ-2834	17.10.2020
(iii)	Western Railway: SG. 158/28/12(1169)	27.09.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2133	07.12.2020

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। उपर्युक्त संदर्भ (ii) और (iii) में दिए गए विवरणों के संबंध में बीएसएनएल के दूरसंचार केबलों और पश्चिम 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 पश्चिम 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

अध्यक्ष पत्राचार विभाग  
22.08.22  
निदेशक

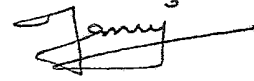
To,		
1.	Divisional Engineer (PTCC), Western Zone	BSNL; Inspection Circle, 3 <sup>rd</sup> Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054. अनुलग्नक-I & अनुलग्नक-III
2.	Dy. CSTE/Tele/CCG.	Western Railway; O/o CSTE, S&T Dept., 5 <sup>th</sup> floor, Station Building, Churchgate, Mumbai-400020. अनुलग्नक- II
3.	Chief Engineer (Project)	GETCO; Sardar Patel Vidyut Bhavan, Race Course, Vadodara-390007. जानकारी हेतु



**ANNEXURE - II**

<b>CEA Case No.: GUJ- 799</b> <b>Name of the Power line:</b> 220 kV D/C transmission Line on D/C tower from 400 kV Bhogat S/S to 220 kV Bhatiya S/S.			<b>Map Scale</b> : 1 cm=500 m <b>Total Length</b> : 12.84 km <b>S.R. Value</b> : 7,500 ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

Western Railway: SG. 158/28/12(1169) Dated :27.09.2021					
<b><u>Affected Blocks &amp; Telcom Circuits Details</u></b>					
1	Okhamadhi to Bhatiya	3.9	0.0014	6876	10
2	Bhatiya to Bhopalka	1.3	0.0002	7266	02



तनुज / T. ANUJ  
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

GUJ-799  
(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)/2133/

07 Dec 2020

Chief Engineer (Project)  
Gujarat Energy Transmission Corporation Ltd  
Sardar Patel Vidyut Bhawan  
Race Course, Vadodara - 390 007

**SUBMISSION OF PROPOSALS FOR HV/EHV TRANSMISSION LINES OF GETCO FOR  
PTCC APPROVAL OF 220KV D/C BHOGAT-BHATIYA LINE WITH AL-59 CONDUCTOR**

1. Ref your letter No CE(Project)/SE(Planning)/914 dt 29 Jul 2020 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets 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

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

for information