



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-820/473-475
PTCC proposal of LILO of one circuit of 220 kV D/C Amreli (400 kV) – Babra line at 220 kV Patkhilori S/S (21.652 km)

Reference:		
S. No.	Reference No.	Dated
(i)	GETCO: CE(Project)/SE(Planning)/8631	07.10.2021
(ii)	BSNL: IC/MBI/PTCC/WGJ050420192407_WGJ300520192454_ WGJ011120213608	06.06.2022
(iii)	Western Railway: SG. 158/28/12 (1177)	28.10.2021
(iv)	Defense: B/46937/Sigs 7(b)/2615	16.12.2021

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 reference (ii) & (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 & II respectively. The screening factors, as applicable, have been considered. Defense Authority, vide reference (iv) above, has issued No Objection Certificate (NOC) (enclosed as Annexure-III).

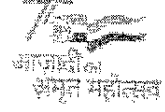
Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken under intimation to this office.

Encl.: As above.

राधेवेंद्र प्रताप सिंह  
Director 13.06.2022

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.	Annex-I only
2.	GM(S&T)	Western Railway, Office of CSTE, S&T Dept., 5 <sup>th</sup> Floor, Station Building, Churchgate, Mumbai – 400020	Annex-II only
3.	Chief Engineer (Project)	GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390007	For info



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Power Communication Development Division

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के.वि.प्रा. केस सं. : GUJ-820/473-475
पी.टी.सी.सी. प्रस्ताव LIL0 of one circuit of 220 kV D/C Amreli (400 kV) – Babra line at 220 kV Patkhilori S/S (21.652 km)

सन्दर्भ:		
क्रमांक	सन्दर्भ सं.	दिनांक
(i)	GETCO: CE(Project)/SE(Planning)/8631	07.10.2021
(ii)	BSNL: IC/MBI/PTCC/WGJ050420192407_WGJ300520192454_ WGJ011120213608	06.06.2022
(iii)	Western Railway: SG. 158/28/12 (1177)	28.10.2021
(iv)	Defense: B/46937/Sigs-7(b)/2615	16.12.2021

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। बीएसएनएल के टेलिकॉम केबलों एवं पश्चिम रेलवे के ब्लॉक एवं टेलिकॉम सर्किटों पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त संदर्भ (ii) एवं (iii) में दिए गए विवरणों के संबंध में की गयी है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर बीएसएनएल के टेलिकॉम केबलों एवं पश्चिम रेलवे के ब्लॉक एवं टेलिकॉम सर्किटों पर प्रेरित वोल्टेज क्रमशः अनुलग्नक -I एवं II 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।

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

संलग्न: ऊपरोक्त अनुसार

21 अक्टूबर 2022  
प्रमाणित  
निदेशक 13-06-2022

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.	Annex-I only
2.	GM(S&T)	Western Railway, Office of CSTE, S&T Dept., 5 <sup>th</sup> Floor, Station Building, Churchgate, Mumbai – 400020	Annex-II only
3.	Chief Engineer (Project)	GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390007	For info



**ANNEXURE-II**

<b>CEA Case No.: GUJ-820</b> <b>Name of the Power line:</b> LILO of one circuit of 220 kV D/C Amreli (400 kV) – Babra line at 220 kV Patkhilori S/S			<b>Map Scale</b> : 1 cm=500 m <b>Total Length</b> : 21.652 km <b>S.R. Value</b> : 15,000 $\Omega$ -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 (1177)					
<u>Affected Blocks &amp; Telecom Circuits Details</u>					
1	Lathi - Khijadiya	Out of parallelism			0
2	Khijadiya - Chital	3.1	0.0005	10000	5
3	Chital - Lunidhar	14.1	0.0024	7800	19
4	Lunidhar – Kunkavav	2.9	0.0005	9000	5
5	Khijadiya – Amreli	Out of parallelism			0

*Prateek*

प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA  
सहायक निदेशक-I/Asstt. Director-I  
केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
विद्युत मंत्रालय/Min. of Power  
भारत सरकार/Govt. of India  
नई दिल्ली/New Delhi-66

Tele : 23019746

*Amro-III* GUT-820  
Directorate General of Signals  
Signals 7  
General Staff Branch  
Integrated HQ of MoD, (Army)  
DHQ PO, New Delhi - 110011

B/46937/Sigs 7(b)/2615/

16 Dec 2021

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 LILO OF ONE CIRCUIT OF 220KV D/C  
AMRELI (400KV)-BABRA LINE AT 220KV PATKHILORI S/S ON D/C TOWER  
WITH AL-59 CONDUCTOR**

1. Refer your letter No CE(Project)/SE(Planning)/8631 dt 07 Oct 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheets received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

*Rakesh Kumar*  
(Rakesh Kumar)  
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

- for information

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

1134  
29/12/21