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आजादी 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

CEA Case No. : GUJ-818 / 470 - 472
LILO of one Circuit of 220 kV D/C Hadala-Sartanpur line at 220 kV Ghiyavad
S/s(8.38 km)

Reference:		Dated
S. No.	Reference No.	
(i)	GETCO: CE(Project)/SE (Planning)/8632	07.10.2021
(ii)	BSNL: IC/MBI/PTCC/WGJ011120213609_WGJ011120213610_ WGJ300420223953	11.05.2022
(iii)	Western Railway: SG. 158/28/12 (1179)	28.10.2021
(iv)	Defense: B/46937/Sigs 7(b)/2618	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.

माधव नर प्रताप सिंह
13.06.2022
Director

To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL, Inspection Circle, 3 rd 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 th 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

के.वि.प्रा. केस सं. : GUJ-818 / 470-472
पी.टी.सी.सी. प्रस्ताव LILO of one Circuit of 220 kV D/C Hadala-Sartanpur line at 220 kV Ghiyavad S/s(8.38 km)

सन्दर्भ:	क्रमांक	सन्दर्भ सं.	दिनांक
(i)		GETCO: CE(Project)/SE (Planning)/8632	07.10.2021
(ii)		BSNL: IC/MBI/PTCC/WGJ011120213609_WGJ011120213610_ WGJ300420223953	11.05.2022
(iii)		Western Railway: SG. 158/28/12 (1179)	28.10.2021
(iv)		Defence: B/46937/Sigs 7(b)/2618	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 (अनुलग्नक -III में संलग्न)।

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: उपरोक्त अनुसार

राजेश कुमार गुप्ता मिह
13.06.2022
निदेशक

To,

1.	Divisional Engineer (PTCC), Western Zone	BSNL; Inspection Circle, 3 rd 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 th 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

CEA Case No.: GUJ-818 Name of the Power line: LILO of one Circuit of 220 kV D/C Hadala-Sartanpur line at 220 kV Gbiyavad S/s.			Map Scale : 1 cm=500 m Total Length : 08.38 km S.R. Value : 25,000 Ω -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 (1179)					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Wankaner-Amarsar			Out of Parallelism	0
2	Amarsar - Sindhavadar			Out of Parallelism	0
3	Sindhavadar - Kankot	2.5	0.0039	10000	39
4	Kankot-Khorana	1.5	0.0005	5500	3

Prateek

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA
सहायक निदेशक-1 / 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

Annex - III
G.O. - 756
QUS-8
Directorate General of Signals
Signals 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi - 110011

B/46937/Sigs 7(b)/2618/

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
HADALA-SARTANPAR LINE AT 220KV GHIYAVAD S/S ON D/C & M/C
TOWER WITH AL-59 CONDUCTOR**

1. Refer your letter No CE(Project)/SE (Planning)/8632 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)
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