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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-802
PTCC proposal of LILO to 220 kV Shapur S/S from existing 220 kV S/C Jetpur – Sardargadh line on D/C & M/C tower (6.21 km)

Reference:		
S. No.	Reference No.	Dated
(i)	GETCO: CE(Project)/SE(Planning)	29.07.2020
(ii)	BSNL: IC/MBI/PTCC/WGJ030920213491_WGJ200920212856	05.10.2021
(iii)	Western Railway: SG.158/28/12(1170)	27.09.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2124	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 reference (ii) and reference (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 Annex-III).

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

Encl.: As above.

Raghuveer Pratap Sigs
05.03.2022

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.	
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	Copy for information

File No.CEA-PS-17-11(12)/15/2022-PCD Division / 225-227



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Power Communication Development Division

के.वि.प्रा. केस सं. : GUJ-802
पी.टी.सी.सी. प्रस्ताव LILO to 220 kV Shapur S/S from existing 220 kV S/C Jetpur – Sardargadh line on D/C & M/C tower (6.21 km)

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	GETCO: CE(Project)/SE(Planning)	29.07.2020
(ii)	BSNL: IC/MBI/PTCC/WGJ030920213491 WGJ200920212856	05.10.2021
(iii)	Western Railway: SG.158/28/12(1170)	27.09.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2124	07.12.2020

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई बीएसएनएल के टेलिकॉम केबलों एवं पश्चिम रेलवे के ब्लॉक एंड टेलिकॉम सर्किटों पर निम्न आवृत्ति प्रेरण गणना क्रमशः उपरोक्त संदर्भ (ii) एवं (iii) में दिए गए विवरणों के संबंध में की गई है। सिंगल लाइन टू ग्राउंड फाल्ट अवस्था में समानांतर बीएसएनएल के टेलिकॉम केबलों एवं पश्चिम रेलवे के ब्लॉक एंड 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 आवश्यक कार्रवाई की जाए।

संलग्न: ऊपरोक्त अनुसार

राज्यवेन्दु प्रजाप सिंह
03.03.2022
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.	
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	Copy for information

Annexure A

CEA office case No: GJ-802	Map Scale: 1 Cm=500 Meters
DET (PTCC) Office Case No: WGJ030920213491 (2843)	Route Length: 6.210 Kms
Railway Office Case No:	Soil Resistivity: 5000 Ohm-Cm

Name of Power Line: **220KV LILO Shapur From Jetpur-Sardargadh Line.**

Telecom Details from BSNL		Details from Power Company/Authority			
Sl No.	Name of the Telecom Cable/Line	Length of Parameter in Km	Mutual coupling in Ohms	Fault current in Amp	Induced Voltage in Volts
1	Vantheli Exch	}	} V less than 430 V		
1A	" to Dilawarnagar 50X1, 20X2				
2A	" to Local 100X1, 20X3				
2	Kanjha Exch				
1B	" to Local 50X1				
3	Shapur Exch				
1C	" to RLY crossing 50X2				
2C	" to Local 100X2, 50X4				
3C	" to Local 100X1, 50X3				
4C	" to Local 500X1				
4	Dhandhusing Exch				
1D	" to Local 200X1, 20X1				

Prateek
 प्रतीक श्रीवास्तव / PRATEEK SHrivastava
 सहायक निदेशक-II (म.म.क.) / Asst. Director-II
 केन्द्रीय विद्युत आयोग / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

ANNEXURE-II

CEA Case No.: GUJ-802 Name of the Power line: LILO to 220 kV Shapur S/S from existing 220 kV S/C Jetpur – Sardargadh line on D/C & M/C tower			Map Scale : 1 cm=500 m Total Length : 6.21 km S.R. Value : 5,000 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 Ref. No: SG.158/28/12(1170) Dated: 27.09.2021

Affected Blocks & Telecom Circuits Details

1	Junagadh – Shapur	0.7	0.0001	10000	1
2	Shapur - Lushala	0.2	0.0002	10000	2

Prateek

प्रतीक श्रीवास्तव/Prateek Srivastava
सहायक निरीक्षक-II/Asst. Director
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत विभाग/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi

Tele : 23019746

G.O.S-802

Annex - 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)/2124/

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 LILO SHAPUR FROM JETPUR-SARDARGADH LINE**

1. Ref your letter No CE(Project)/SE(Planning)/923 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

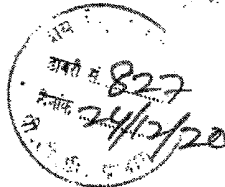
Enclosures : As above

Copy to :-

✓ The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi - 110016

for information

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



Sh. Tang
AS
24-12-20