



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-826

PTCC proposal of 220 kV S/C 800 Sqmm U/G cable line from 220 kV Shivlakha (GETCO) S/S to proposed Shivlakha TSS (RVNL) (2.555 km)

Reference	erence:		
S. No.	Reference No.	Dated	
(i)	GETCO: CE(Project)/SE (Planning)/1603	09.03.2022	
(ii)	BSNL: IC/MBI/PTCC/WGJ100320223869	15.03.2022	
(iii)	Western Railway: SG.158/28/12(1187)	21.03.2022	

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.

Telecommunication details from Defense are pending and the power authority has shown urgency for the charging of the line. In view of this take necessary action regarding issuance of provisional PTCC approval for 220 kV S/C 800 Sqmm U/G cable line from 220 kV Shivlakha (GETCO) S/S to proposed Shivlakha TSS (RVNL).

Encl.: As above.

2144-5 4214 17E Director 2403.22

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	With general instruction to submit PTCC proposals of power lines owned by them only





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के.वि.प्रा. केस सं. : GUJ-826 पी.टी.सी.सी. प्रस्ताव 220 kV S/C 800 Sqmm U/G cable line from 220 kV Shivlakha (GETCO) S/S to proposed Shivlakha TSS (RVNL) (2.555 km)

सन्दर्भ:				
क्रमांक	सन्दर्भ सं.	दिनांक .		
(i)	GETCO: CE(Project)/SE (Planning)/1603	09.03.2022		
(ii)	BSNL: IC/MBI/PTCC/WGJ100320223869	15.03.2022		
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संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई 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 गई 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 —। एवं ॥ में संलग्न है। स्क्रीनिंग कारक का मान यथानुरूप लिया गया है।

रक्षा प्राधिकरण से दूरसंचार विवरण लंबित हैं और बिजली प्राधिकरण ने लाइन की चार्जिंग के लिए तत्कालता दिखाई है। इंसे देखते हुए 220 kV S/C 800 Sqmm U/G cable line from 220 kV Shivlakha (GETCO) S/S to proposed Shivlakha TSS (RVNL) के लिए अनंतिम पीटीसीसी अप्रवल जारी करने के संबंध में आवश्यक कार्रवाई की जाए।

संलग्नः ऊपरोक्त अनुसार

श्याचे न्द्र प्रगण पिंह 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
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Annew. CEA office case No: GUJ - 826 Map Scale: 1 Cm=500 Meters DET (PTCC) Office Case No: WGJ100320223869 (2867) Route Length: 2.555 Kms Railway Office Case No: Soil Resistivity: 7500 Ohm-Cm Name of Power Line: 220KV 800Sq mm Al corrugated sheathed U/G cable line from 220KV Shivlakha S/S(GETCO) to proposed Shivlakha TSS(RVNL). Telecom Details from BSNL Details from Power Company/Authority Length of Mutual Fault SI Induced Name of the Telecom Cable/Line Paramete | coupling | current in | Voltage in No. r in Km in Ohms Amp Volts Lakadia Exchange The same of the sa A Lakadia Exchange to Local 400PX1, 100PX1, 50PX2 2A Lakadia Exchange to Local 200PX1, 50PX2, 20PX1 3A Lakadia Exchange to Local 50PX1, 20PX1 less than A Lakadia Exchange to Local 20PX1 (30 Chitrod Exchange 1B Chitrod Exchange to Local 50PX1, 20PX1 Chitrod Exchange to Local 20PX1 प्रक्षित्र हैं 459

ANNEXURE-II

current

in Amps.

in

Volts.

CEA Case No.: GUJ-826
Name of the Power line: 220 kV S/C 800 Sqmm U/G cable line from 220 kV Shivlakha (GETCO) S/S to proposed Shivlakha TSS (RVNL)

| Map Scale : 1 cm=500 m Total Length : 2.555 km S.R. Value : 7500 ohm-cm

Telecom. Details

S.No.

Parallelism

in Km.

Coupling

in Ohms.

Western Railway: SG.158/28/12(1187)		(1187)	Dated: 2	1.03.2022	
	Affected Blocks &	Telecom Cir	cuits Details	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
1	Samakhyali – Katariya	Out of parallelism			. 0
2	Katariya – Surbari				0
3	Kidiyanagar - Chitrod				0
4	Chitrod - Shivlakha				0
5	Shivlakha - Lakadiya	1.2	0.0004	10000	4
6	Lakadiya - Samakhyali	Out of parallelism		m	. 0

प्रतिक श्रीताता प्रतिहास इत्याद्वाराज्य । स्वायक निवाद III/Asati. Disecto-II स्वायक निवाद प्रतिक्रमण/C.E.A. वेन्द्रीय विद्या प्रतिक्रमण/C.E.A. विद्या नेवातय/Ministry of Power विद्या नेवातय/Ministry of India वारत नेवातय/Ministry of India