File No.CEA-PS-17-11(12)/13/2022-PCD Division





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-824 | 212 - 214

dt. 02.03.22

PTCC proposal of 220 kV S/C line on D/C tower for evacuation of 150 MW solar power generation from M/s Juniper Green Three Pvt Ltd Plant (PGTPL) located at village Jakhan Ta. Limbdi Dist. Surendranagar to 400 kV Choraniya S/S of GETCO (3.98 km)

Reference:			
S. No.	Reference No.	Dated	
(i)	GETCO: CE(Project)/SE(Planning)/765	29.12.2021	
(ii)	BSNL: IC/MBI/PTCC/WGJ050120223769	15.02.2022	
(iii)	Western Railway: SG. 158/23/12(1183)	31.01.2022	

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 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.

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 line on D/C tower for evacuation of 150 MW solar power generation from M/s Juniper Green Three Pvt Ltd Plant (PGTPL) located at village Jakhan Ta. Limbdi Dist. Surendranagar to 400 kV Choraniya S/S of GETCO.

Encl.: As above.

Raghrands Probab Sigh.

Director

To,

وں بد		,	
	Divisional	BSNL; Inspection Chele, 3th Floor, D-Wing,	
1.	Engineer (PTCC),	BSNL Admin Building, Juhu Tara Road,	
	Western Zone	Santacruz (West), Mumbai-400054.	
2.	GM(S&T)	Western Railway; O/o PCSTE, S&T Dept., 5 th floor, Station Building, Churchgate, Mumbai-400020.	Annexure-II only
3.	Chief Engineer (Project)	GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 590007	Copy for information

MIC

File No.CEA-PS-17-11(12)/13/2022-PCD Division





भारत सरकार Government of India विद्युत मंत्रालय Ministry of Power केन्द्रीय विद्युत प्राधिकरण Central Electricity Authority विद्युत संचार विकास प्रभाग Power Communication Development Division

के.वि.प्रा. केस सं. :GUJ-824 / 212 ं -21 प्र पी.टी.सी.सी. प्रस्ताव 220 kV S/C line on D/C tower for evacuation of 150 MW solar power generation from M/s Juniper Green Three Pvt Ltd Plant (PGTPL) located at village Jakhan Ta. Limbdi Dist. Surendranagar to 400 kV Choraniya S/S of GETCO (3.98 km)

सन्दर्भ:			
क्रमांक	सन्दर्भ सं.		
(i)	GETCO: CE(Project)/SE(Planning)/765	दिनाक	
(ii)	BSNL: IC/MBI/PTCC/WGJ050120223769	29.12.2021	
(iii)	Western Railway: SG. 158/28/12(1183)	15.02.2022	
	T Western Ranway, SG. 158/28/12(1183)	31.01.2022	

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। उपर्युक्त संदर्भों (ii) और (iii) में दिए गए विवरणों के संबंध में बीएसएमएल 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 बीएसएमएल और पश्चिम रेलवे के ब्लॉक और टेलीकॉम सर्किट के समानांतर दूरसंचार केबलों पर प्रेरित होने की संभावना वाले वोल्टेज क्रमशः अनुलग्नक- । और अनुलग्नक- ॥ में संलग्न हैं। स्क्रीनिंग कारकों पर विचार कर लिया गया है।

रक्षा प्राधिकरण से दूरसचार विवरण लंबित हैं और बिजली प्राधिकरण ने लाइन की चार्जिंग के लिए तत्कालता दिखाई है। इसे देखते हुए 220 kV S/C line on D/C tower for evacuation of 150 MW solar power generation from M/s Juniper Green Three Pvt Ltd Plant (PGTPL) located at village Jakhan Ta. Limbdi Dist. Surendranagar to 400 kV Choraniya S/S of GETCO के लिए अनंतिम पीटीसीसी अनुमोदन जारी करने के संबंध में आवश्यक कार्रवाई करें।

संलग्नः जपरोक्त अनुसार

त्रा<u>ध्येत त्रमाप क्षिंह •</u> निदेशक

To,

Y 10,

i i (i i c c), western		BSNL; Inspection Circle, 3 rd Floor, D-Wing, BSNL Admin Building, Juhu Tara Road, Santacruz (West), Mumbai-400054	
2.	GM(S&T)	Western Railway; O/o PCSTE, S&T Dept., 5th floor, Station Building, Churchgate, Mumbai-400020.	अनुलग्नक-II
3.	Chief Engineer (Project)	GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390007	जानकारी हेतु-

Annex

16,			, , ,		
	office case No: Gいコータ24		e: 1 Cm=5		
-	(PTCC) Office Case No: WGJ050120223769 (2863)	AND THE PERSON NAMED OF PERSONS ASSESSMENT O	ngth: 3.98	_	
—	/ay _fice Case No:	·····	stivity: 多。		
	e of Power Line: 220KV S/C Line on from 400KV Choraniya(f s Jun <mark>iper G</mark> reen Three Pvt Ltd Solar plant.	GETCO) S	/S to Prop	osed swi	tchyard
	Telecom Details from BSNL	Details fr	om Power	Company	/Authority
SI No.	Name of the Telecom Cable/Line	Length of Paramete r in Km		Fault current in Amp	Induced Voltage in Volts
1	Limbdi Exch	1 11 15111	I III Ollins	Amp	VOILS
1A	Limbdi Exch to old Exch 2000x3, 800x1				
2A	Limbdi Exch to Railway Station 200x2, 50x1, 10x4	TI	125	thor	
ЗА	Limbdi Exch to Local 200x1	17	430	∇	
4A	Limbdi Exch to Local 200x1				
5A	Limbdi Exch to Shriji High School 200x1, 50x2				and the second s
6A	Limbdi Exch to Local 100x1, 10x4				The second secon
7A	Limbdi Exch to Local 400x1, 20x2, 10x2		1		- Commence
		T			other state of the
		i C	-		And Streets of the St
	Rate		The second secon	opposition of the	w.c.
Service Control of the Control of th					
	New Acres				
	प्रस्तावा कर्मा प्रतिकास		ेल्लेक सा		
	्रिक्त का अपने का	呼が始いにおす。 特許 vitaser s	Le mos		
	व्य १	Wall / New D	Cilia ·		
			1		
					i.
				-	and the state of t
				Por a process	A CONTRACTOR OF THE CONTRACTOR
	(* P * *		. 4,		
	4		1		
				and the state of t	
				and the same of th	,

ANNEXURE - II CEA Case No.: GUJ-824 Name of the Power line: 220 kV S/C line on D/C tower for Map Scale : 1 cm=200 m evacuation of 150 MW solar power generation from M/s Juniper Total Length: 3.98 Green Three Pvt Ltd Plant (PGTPL) located at village Jakhan Ta. S.R. Value : $1,00,000 \Omega$ -cm Limbdi Dist. Surendranagar to 400 kV Choraniya S/S of GETCO Effective Length of Mutual Fault I.VParallelism Coupling current in ' S.No. Telecom. Details in Km. in Ohms. in Amps. Volts.

	WESTERN RAIWAY Ref. No: SG.	.158/28/10 (1183) Dated: 31.01.2022		
Affected Blocks & Telecom Circuits Details				
1	Wadhwan City – Limbdi		0	
2	Limbdi - Chuda	Outside IV consideration zone	0	

Pratect

Rite 4 Control Coversell C