



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-825 / 264-266
PTCC proposal of 220 kV OH line from 50.60 MW M/s Powerica Limited Switchyard to Jam Khambaliya 400/220 kV PS (GIS) JKTL at Jamkhambaliya, Deb Bhumi Dwaraka, Gujarat (0.167 km)

Reference:		
S. No.	Reference No.	Dated
(i)	M/s Powerica Ltd: POW/WIND/21-22/280	03.02.2022
(ii)	BSNL: IC/MBI/PTCC/WGJ010320222866	11.03.2022
(iii)	Western Railway: SG.158/28/12(1185)	24.02.2022

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) 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.

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 OH line from 50.60 MW M/s Powerica Limited Switchyard to Jam Khambaliya 400/220 kV PS (GIS) JKTL at Jamkhambaliya, Deb Bhumi Dwaraka, Gujarat.**

Encl.: As above.

राष्ट्रीय प्रमुख निदेश
Director 16.02.2022

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.	M/s Powerica Limited	Wind Power Division, 9 th Floor, C Wing, Godrej Coliseum, Behind Everard Nagar, Sion - Trombay Road, Sion, Mumbai - 400022	Copy for information



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Power Communication Development Division

के.वि.प्रा. केस सं. : GUJ-825/264-66
पी.टी.सी.सी. प्रस्ताव 220 kV OH line from 50.60 MW M/s Powerica Limited Switchyard to Jam Khambaliya 400/220 kV PS (GIS) JKTL at Jamkhambaliya, Deb Bhumi Dwaraka, Gujarat (0.167 km)

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	M/s Powerica Ltd: POW/WIND/21-22/280	03.02.2022
(ii)	BSNL: IC/MBI/PTCC/WGJ010320222866	11.03.2022
(iii)	Western Railway: SG.158/28/12(1185)	24.02.2022

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 से दूरसंचार विवरण लंबित हैं और बिजली प्राधिकरण ने लाइन की चार्जिंग के लिए तत्कालता दिखाई है। इसे देखते हुए 220 kV OH line from 50.60 MW M/s Powerica Limited Switchyard to Jam Khambaliya 400/220 kV PS (GIS) JKTL at Jamkhambaliya, Deb Bhumi Dwaraka, Gujarat के लिए अनंतिम पीटीसीसी अप्रूवल जारी करने के संबंध में आवश्यक कार्रवाई की जाए।

संलग्न: उपरोक्त अनुसार

राधिका प्रसाद सिंह
16.03.2022
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
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Annex-I

CEA office case No: <i>GUJ-825</i>		Map Scale: 1 Cm=500 Meters			
DET (PTCC) Office Case No: <i>WGJ010320222866 (2866)</i>		Route Length: 0.167 Kms			
Railway Office Case No:		Soil Resistivity: <i>7500 Ohm-Cm</i>			
Name of Power Line: 220KV Overhead line from 50.60MW M/s Powerica Limited Switchyard to Jam Khambhaliya 400/220KV PS(GIS)JKTL at Jamkhambhaliya, Dev Bhumi Dwaraka, Gujarat.					
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	Khambhaliya Exchange	}			
1A	Khambhaliya Exch to Nagar Gate 800P X4, 400P X2				
2A	NagarGate to GBG Highschool 400PX1, 50PX4				
3A	GBG Highschool to Seva sadan 200PX1, 100PX1, 50PX2				
4A	Sevasadan to Kanchanpur 100PX1				
5A	NagarGate to Collector Residence 200PX1				
6A	Khambhaliya Exch to Bhavvad Patiya 400PX2				
7A	Khambhaliya Exch to Federal Bank 100PX1				
8A	Khambhaliya Exch to Panchvati 400PX1				
			<i>IV less than 430 V</i>		

Prateek

प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA
 सहायक निदेशक-II/Asst. Director-II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi

ANNEXURE-II

CEA Case No.: GUJ-825					
Name of the Power line: 220 kV OH line from 50.60 MW M/s Powerica Limited Switchyard to Jam Khambaliya 400/220 kV PS (GIS) JKTL at Jamkhambaliya, Deb Bhumi Dwaraka, Gujarat		Map Scale : 1 cm=500 m Total Length : 0.167 km S.R. Value : 7,500 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(1185) Dated: 24.02.2022

Affected Blocks & Telecom Circuits Details

1	Modpur – Khambaliya	Outside IV consideration zone	0
2	Khambaliya - Bhatel		0

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सहायक निदेशक-II / Asstt. Director-II
केन्द्रीय विद्युत प्राधिकरण / C.E.A.
विद्युत मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi