

I/27462/2023



सत्यमेव जयते


 75
 आरंभ नमो भूताना
 वैश्वेय कुटुम्बकम्
 ONE EARTH - ONE FAMILY - ONE FUTURE

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-832		
PTCC approval for 220 kV S/C line (partly on M/C and D/C towers) from 115 MW M/s Torrent Power Limited Switchyard to Jam Khambaliya 400/220 kV PS (GIS) JKTL (27.94 Kms) - Regd.		
S. No	Reference No.	Dated
(i)	M/s Torrent Power Ltd: TSL/2021-22/SECI-V Project/PTCC/016	19.04.2022
(ii)	M/s Torrent Power Ltd.: TSL/CEA/SECI-V/2023-24/005	24.04.2023

This is in reference to CEA letter of even no. dated 11.04.2023 vide which LF induction on Block and Telecom circuits of BSNL and Western Railway were issued for subject cited transmission line. Now, M/s Torrent Power Limited vide reference (ii) (copy enclosed) above has requested to reconsider the case citing the discrepancy in value of Soil resistivity taken for IV calculation (i.e. 1,00,000 ohm-cms) vis-à-vis that submitted by Torrent Power (66,052 ohm-cms).

The PTCC manual lists down the values of mutual impedance for 50,000 ohm-cms and thereafter for 1,00,000 ohm-cms. As, the submitted value of soil resistivity was higher than 50,000 ohm-cms, 1,00,000 ohm-cms was taken for IV calculation.

Now, on the request of M/s TSL, the case has been reconsidered by extrapolating the values of mutual impedance for 66,052 ohm-cms and revised IV calculation for BSNL and Western Railway is attached at Annexure-I and Annexure-II

Taking above into consideration, necessary action regarding issuance of PTCC approval for the subject cited transmission line might be taken under intimation to this office.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Western Zone	QA & Inspection circle, 1 st floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santacruz (West), Mumbai-400054	
2.	GM (S&T)	Western Railway, Office of OCSTE, S&T Dept., 5 th Floor, Station Building, Churchgate, Mumbai – 400 020	
3	General Manager	Torrent Power Ltd., SUGEN Mega Power Project, Village: Akhakhol Taluka: Kamrej, Dist.: Surat, Gujarat – 394155	Copy for information.

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CEA Case No.: GUJ-832		Map Scale : 1 cm= 500 m			
Name of the Power line: 220 kV S/C line (partly on M/C and D/C towers) from 115 MW M/s Torrent Power Limited Switchyard to Jam Khambaliya 400/220 kV PS (GIS) JKTL		Total Length : 27.94 km			
		S.R. Value : 66,052 Ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

BSNL: IC/MBI/PTCC/WGJ170220234662_WGJ020320234744_WGJ280320234810 Dated 28.03.2023

Affected Blocks & Telecom Circuits Details

I	Khambhaliya Exchange				
1	Khambhaliya Exchange to Nagar Gate	IV less than 430 V			
2	Nagar Gate to GBG Highschool	Out of parallelsim			
3	GBG Highschool to Seva Sadan	Out of parallelsim			
4	Seva Sadan to Kanchanpur	Out of parallelsim			
5	Nagar Gate to Collector Residence	IV less than 430 V			
6	Khambhaliya Exchange to Bhanvad Patiya	Out of parallelsim			
7	Khambhaliya Exchange to Federal bank	0.5	0.00771	16458	127
8	Khambhaliya Exchange to Panchvati	IV less than 430 V			

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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 (1271) Dated 16.12.2022

Affected Blocks & Telecom Circuits Details

1	Bhopalika to Bhatel	4.7	0.005183	20384	106
2	Bhatel to Khambhaliya	12.5	0.022235	15616	347
3	Khambhaliya to Modpur	1.7	0.00323	15352	50