



सत्यमेव जयते

भारत सरकार  
Government of India  
विद्युत मंत्रालय  
Ministry of Power  
केन्द्रीय विद्युत प्राधिकरण  
Central Electricity Authority  
पावर कम्युनिकेशन डवलपमेंट प्रभाग  
Power Communication Development Division

सं.: के.वि.प्रा./पी.सी.डी/जी.यु.जे-667/2567-2568

दिनांक: 10/12/2018

Divisional Engineer (PTCC), Inspection Circle,  
Bharat Sanchar Nigam Limited (BSNL),  
3<sup>rd</sup> Floor, D-Wing, BSNL Admin Building  
Juhu Tara Road, Santacruz (West)  
Mumbai-400054

**Subject: PTCC Proposal of 220kV D/C OPG Bhadreshwar to 400 kV Varsana S/S**

Ref: i) BSNL Letter No. IC/MBI/PTCC/GUJ-2268, Dated-01/10//2015.  
ii) Dy. CSTE/PLG/CCG. WR, Mumbai, Letter No. SG.158/28/12(268), Dated 25/06/2015.

Sir,

The low frequency induction on BSNL and Railway Telecommunication circuits as per details furnished vide above cited references (i) and (ii) respectively has been examined. The Average Soil Resistivity value has been taken as 30,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL and Railway Telecommunication circuits under single line to ground fault condition are enclosed at Annex-I&II respectively. The screening factors as applicable have been considered.

As the power Authority had submitted the instant case before the decision of consideration of Defense, the requirement Defense Telecom details may be waived.

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl: As above

Yours faithfully,



(नरेश भंडारी)  
मुख्य अभियंता

**Copy to:**

1. GM (S&T), Western Railway, Office of CSTE, S&T Dept., 5th Floor, Station Building, Churchgate, Mumbai-400020 (With Annexure-II Only).
2. Chief Engineer(Projects), Sardar Patel Vidyut Bhavan, Race Course, Vadodara, Gujarat-390007

## ANNEXURE - I

Case No.: GUJ-667 Name of the Power line: PTCC proposal of 220KV D/C line OPG Project Bhadrashwar - 400KV Varsana line.		Map Scale : 1cm=500mts Total Length : 56.69 Km. S.R. Value : 30000 Ohms-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.


BHARAT SANCHAR NIGAM LIMITED					
Ref.No. IC/MBI/PTCC/GUJ-2268		Dated at Mumbai the 01.10.2015			
1	LUNI EXCH - LOCAL				
2	Gundula Exch - Local				} — Out of 115mV —
3	Gundula Exch - Local				
4	Gundula Exch - Ratadia				
5	Wadala Exch - Local				
6	Wadala Exch - Mouha				} — IV less than 430V —
7	Wadala Exch - Vavor				
8	Kundrodi Exch - Local				
8A	Kundrodi Exch - Bugudla - Waghura				} — Out of 115mV —
9	Kundrodi Exch - Chusru - Mouha				
10	Bhudreshwar Exch - Local				} — IV less than 430V —
11	Bhudreshwar Exch - Hatadi	5.2	0.049	8675	
12	Chandrodu Exch - Local				} — Out of 115mV —
13	Chandrodu Exch - Bhalot				
14	Chandrodu Exch - Muthudu				
15	Chandrodu Exch - Bhuvud				
16	Khedoi Exch - Local				} — Out of 115mV —
17	Khedoi Exch - Manindiu				
18	Khedoi Exch - Chandiya				
19	Khedoi Exch - Nani Khedoi				
20	Khedoi Exch - Mindiyalu				} — IV less than 430V —
21	Mathau Exch - Local				
22	Mathau Exch - Songhddh				
23	Khamru Exch - Local				
24	Khamru Exch - Loharia				} — IV less than 430V —
25	Khamru Exch - Shinugru				

मुख्य अभियंता/Chief Engineer  
केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
संसाधन विभाग, जल विभाग, पुणे  
Sector 10, P. O. Box, P. U. Ram,  
New Delhi-110002, India-66





Case No. : G.UJ-667		Map Scale: 1cm=500 mts.			
Name of Power Line: 220 KV D/C +220 M/C tower line with AI-59 conductor from 220kV OPG project Bhadreshwar to 400kV Varrsana S/S.		Route Length: 56.69 Km			
		Average SR Value: 30,000 $\Omega$ _cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Faults Current in Amps.	I.V in Volts
<b>WESTERN RAILWAY</b>					
Ref. no. SG.158/28/12(268)			Dated: 25-06-2015		
<b>Affected Blocks &amp; Telecom Circuits Details</b>					
1	Ratnal-Anjar	2.2	0.0037	6070	22
2	Anjar-Adipur	5.6	0.001	5860	5

  
 मुख्य अभियन्ता/Chief Engineer  
 केंद्रीय विद्युत प्राधिकरण/C.E.A.  
 सेवा भवन, आर.के.पुरम,  
 सोवतिया, अहमदाबाद, Gujarat-380 015  
 तारिका क्र. 25/06/2015/268-56