

भारत सरकार Government of India विदयत मंत्रालय Ministry of Power केन्द्रीय विद्युत प्राधिकरण Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट 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), 3rd 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 Bhadrteshwar – 400KV Varsana line.			ngth: 56.69 Km.		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

t.No. I	C/MBI/PTCC/GUJ-2268 Dated at Mumb	arthe 01.1	0.2015		
1	LUNI EXCH - LOCAL				
2	Gundula Exch - Local	-	- Out of 11		
3	Gundula Exch - Local		1		
4	Gundula Exch – Ratadia				
5	Wadala Exch – Local				
6	Wadala Exch - Mouha		IV less the	m 430 V_	
7	Wadala Exch – Vavor				
8	Kundrodi Exch - Local				
8A	Kundrodi Exch – Bugudla – Waghura	-	- Out of	lizar-	
9	Kundrodi Exch - Chusru - Mouha				
10	Bhudreshwar Exch – Local	-		than 430 V.	
11	Bhudreshwar Exch - Hatadii	5.2	0.049	8675	424
12	Chandrodu Exch - Local				
13	Chandrodu Exch – Bhalot				
14	Chandrodu Exch – Muthudu	quanti	_ Out of	11500_	
15	Chandrodu Exch – Bhuvud				
16	Khedoi Exch - Local				
17	Khedoi Exch – Manindiu	-	Duraf	115m	
18	Khedoi Exch – Chandiya				
19	Khedoi Exch – Nani Khedoi				
20	Khedoi Exch – Mindiyalu				
21	Mathau Exch - Local	-	IV less	than 430 V.	HER MANN
22	Mathau Exch – Songhddh				
23	Khamru Exch – Local				
94	Khamru Exch – Loharia	enginear	- IV less-	than UsaVa	3-14

Stave Edward R. F. Puram,

1/3

ANNEXURE - I

Case No.: GUJ-667  Name of the Power line: PTCC proposal of 220KV D/C kline  OPG Project Bhadrreshwar – 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.
26	Anjaly Exch – Meghpur	1			
97	Anja/ Exch - Local				
28	Anjan/Exch – Local				
29	Anjar Exch - Local				
30	Anja√ Exch – Local		_IV lose	than 431	V
31	Anja√ Exch - Local			Table 1 and	
32	Anja. Exch - Local				
33	Anja√Exch - Satūpαr				
34	Anjan/Exch - Local				
35	Anja./Exch - Supalliya	2.2	8.044	6370	280
36	AnjaÝExch - GIDC	1			
37	Anjar/Exch - Local	-	IV Ross	han 430 V-	a garage and Palis
38	Anja Exch - Local				
39	AdiporExch - Shinuyul	ñ			
40	Adi purExch - Alhuuwallia Pillar				
41					
42	Adipur Exch - TDX				
43	Adipur Exch - Uouily				
44	Adipur Exch – Buddha Ashram				
45	Adipur Exch – Somudhi	and a second			
46	Adipur Exch – SRL	-	Out o	1 115000	
47	Adipur Exch – Prubhu – Darshan			3	
48	Adipur Exch – SBI				
49	Adipur Exch – Statian	1 1	hil		
50	Adipur Exch – Gitanjali	#100	श्रीभयन्ता/Chief Er	nginear	
51	Adipur Exch – 31.2B	1 45	विद्यास प्रतिविक्तणः जन्म स्थलन स्थलन	पुरम,	
52	Varshmedi Exch – Local	S	AND PROPERTY OF THE PARTY OF TH	emi-66	
53	Varshmedi Exch – Pushwariya	11:			

ANNEXURE -

	ANNEXURE – I				
Case No.: GUJ-667 Name of the Power line: PTCC proposal of 220KV D/C kline OPG Project Bhadrreshwar – 400KV Varsana line.		Map Scale : 1cm=500mts Total Length : 56.69 Km. S.R. Value : 30000 Ohms-cm			
Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts	
Modsar Exch – Local		But of H	7NV		
Modsar Exch – Jura	1	05 11	Minimum material		
Lakhapen Exch - Local		112 0-1-1	/100.14		
		IV ress Tha	m 430 V		
LathaperExch - Local	7				
Bhimusar Exch – Jawaharnagar					
Bhimusar Exch - Local		- Outa	m=211 2		
Bhimusar Exch - JMD		11	1)		
		and the second of the second o	nginear		
	· · · · · · · · · · · · · · · · · · ·	य विश्वा प्रतिकृत	O.E.A.		
	S	m 9157 380 38	i diam.		
	113				
	Telecom. Details  Telecom. Details  Modsar Exch – Local  Modsar Exch – Local  Laktapar Exch – Local  Laktapar Exch – Local  Laktapar Exch – Local  Laktapar Exch – Local  Bhimusar Exch – Local  Bhimusar Exch – Jawaharnagar  Bhimusar Exch – Local	Telecom. Details  Length of Parallelism in Km.  Modsar Exch – Local  Modsar Exch – Local  Laktapar Exch – Local  Asklapar Exch – Local  Asklapar Exch – Local  Bhimusar Exch – Local	Telecom. Details  Length of Parallelism in Km.  Map Scale Total Length S.R. Value  Length of Parallelism in Km.  Modsar Exch – Local  Modsar Exch – Local  Modsar Exch – Local  Length of Parallelism in Km.  Modsar Exch – Local  Modsar Exch – Local  Length of Parallelism in Km.  Length of Parallelism in Km.	Description of the Power line: PTCC proposal of 220KV D/C kline object Bhadrreshwar – 400KV Varsana line.    Length of Parallelism in Km.   Mutual Coupling in Ohms.   Effective Fault current in Amps.	

Case No.: GUJ-667			Map Scale: 1cm=500 mts.			
Name of Power Line:220 KV D/C +220 M/C tower line with Al-59 conductor from 220kV OPG project Bhadreshwar to 400kV Varrsana S/S.		Route Length: 56.69 Km  Average SR Value: 30,000 Ω cm				
S.No. Telecom. Details	Length of Parallelism in Km.	n	Mutual Coupling in Ohms.	Effective Faults Current in Amps.	I.V in Volts	
WESTERN RAILWAY						
Ref. no. SG.158/28/12(268)			Da	ted: 25-06-2	015	
Affected Blocks & Telecom Circuits Details						
1 Ratnal-Anjar		2.2	0.0037	6070	22	
2 Anjar-Adipur		5.6	0.001	5860	5	

मुख्य अभियन्ता/Chief Enginear केन्द्रीय थिशुरा प्राणिकस्पा/C.E.A. संया अवस्य अस्य १५८म, Score में (Turam, पेट्र केन्द्रिक स्थान-56