

भारत सरकार

Government of India विद्युत मंत्रालय

Ministry of Power केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority पावर कम्युनिकेशन डवलप्मेंट प्रभाग

Power Communication Development Division

No. CEA/PCD/ PTCC/GUJ-772/ 3/4-342

Date: 26.03.2019

DET (PTCC), Western Zone, Bharat Sanchar Nigam Limited (BSNL), O/o DET(PTCC), QA & Inspection Circle, 3rd Floor, D-Wing, BSNL Admin Bldg., Juhu Tara Road, Santacurz (West), Mumbai – 400054.

Subject: Induced Voltage calculation in respect of PTCC proposal of 220 kV S/C line on D/C tower from existing 220 kV Mokha S/S to Proposed M/s. Chromeni Steel Pvt. Ltd.

Ref: (i) BSNL letter no. IC/MBI/PTCC/GUJ-2730 dated 20.12.2018

(ii) Defense letter no. B/46937/Sigs 7(b)/1301 dated 07.02.2019

Sir.

The low frequency induction on BSNL circuits as per details furnished vide above cited references (i) has been examined. The Soil Resistivity value has been taken as 10000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL Telecom Cables under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. Defense has accorded NOC vide above Ref.(ii) for the above line (a copy enclosed at Annex-II).

Railway Authority have not yet submitted Railway Telecommunication details. However, on observing the Topo map, it is found that there is no Railway track in the vicinity of Zone of consideration for Induced voltage calculation.

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

Encl.: As above

Yours faithfully,

(Naresh Bhandari) Chief Engineer

Copy to:

 Office of CSTE, Western Railway, S&T Dept., 5th Floor, Station Building, Churchgate, Mumbai – 400020 (Only Cover Letter)

2) Chief Engineer(Projects), GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390007.

	f a Case No GLU J - 772	Map scale	Map scale- 1 Cms = 500 Meters			
DET (PTCC) Office Case No. 2730		Route Leng	Route Length- 6.258 KMS			
Railway Office Case No.		Soil Resistivity- 1 0,000 Dhm/CM				
Name	of Power Line: 220 KV S/C LINE FROM MOKHA S/S	TO M/S CHROME	NI STEEL PVT.	LTD. ON AL-5	9 CONDUCTOR.	
	DETAILS FROM BSNL SIDE	DETAILS FROM POWER COMPANY				
		Length of	Mutual	Fault	T	
	Name of the Telecom line/Cable	parameter	coupling in	Current in	Induce Voltage	
Sl.No.		in KM	Ohms	Amp	in Volts	
	BHADRESHWAR EXCHANGE EXCHANGE					
1A	Bhadreshwar Exch Local— 50*1 P	7				
2A	Bhadreshwar Exch Local— 20*1 P				-	
3A	Bhadreshwar Exch Local— 20*4 P	100	tside 1	V consid	eration ze	
4A	Bhadreshwar Exch Local— 10*7 P	J				
2	GUNDALA EXCHANGE					
18	Gundala Exch Local-200*1 P	←00	t of 115	n —	-	
2B	Gundala ExchToda Rd-100*1 P	€ out	d IV cons	Idevatio	Zone -	
38	Gundala Exch Ratadia-50*2+20*1 P	€ 1V 18	s tran	430V -	-	
3	WADALA EXCHANGE		11.00	1.00		
1C	Wadala Exch Mokha-200*1+50*1 P	7 -14 1	es than	430 V -	-	
2C	Wadala Exch Nilkanth- 50*1 P	3		1,300 7		
3C	Wadala Exch Local- 100*1 P	2.0	0.0485	6000	291	
4	LUNI EXCHANGE		0.0100	0000	2-11	
1D ·	Luni Exch Local- 200*1+100+50 P	6 out	de Wear	e idevatio	Zone -	
5	CHANDRADA EXCHANGE	1			1 -0.0	
1E	Chandrada Exch Local- 200*1 P	1)				
2E	Chandrada Exch Local- 100*1 P	Cout	de IV cor	side va hic	n Zone -	
3E	Chandrada Exch Local- 100*1 P			D. 00 F 100 110	2012	
6	KUNDRODI EXCHANGE					
1.F	Kundrodi Exch Local- 50*1 P	2	_		-	
2F	Kundrodi Exch Chhasra- 50*1 P	LIV 1e	s than	4304		
	Kundrodi Exch Bagada- 50*1 P	1510 10	75 174041	-130+	>	
4F	Kundrodi ExchWagura- 50*1 P		-			
	Kundi odi ExciiWagura- 50 1 P	- 1	1		-	
			4-1-			
		/		//		
		/ / .	11-			
				7		
		- नरेश				
		The state of the s	न जामयन्ता/Cr य विद्युत प्राधि	er Engineer हरण / C.F.A.		

वधुत मञ्जालय/Ministry of Power भारत सरकार/Govt, of India नई दिल्ली/New Delhi-66 le: 23019746

GUJ-772

Directorate General of Signals Signals 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi – 110011

l6937/Sigs 7(b)/1301/

07 Feb 2019

Chief Engineer (Project) jarat Energy Transmission Corporation Ltd rdar Patel Vidyut Bhawan ce Course, Vadodara – 390 007

SUBMISSION OF PROPOSAL FOR HV/EHV TRANSMISSION LINE OF GETCO FOR PTCC PROVAL OF 220KV S/C LINE FROM MOKHA TO M/S. CHROMENI STEELS PVT. LTD. ON AL-59 CONDUCTOR

Ref your letter No CE (Project)/EE (Tr.-3)/2865 dt 14 Sep 2018 (copy att).

No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets eived under your letter mentioned above.

Documents alongwith map sheets (in original) are returned herewith for your further essary action.

(A Rawat)

Maj

GSO 1 (Comn) for SO-in-C

:losures : As above

by to:

Director (PTCC), CEA - ver Communication Development Division - C Complex, 18-A Shaheed Jeet Singh Marg waria Sarai, New Delhi - 110016

for information.