



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

No. CEA/PCD/PTCC/GUJ-773/370-372

Date: 28/03/2019

Divisional Engineer Telecom (PTCC),  
QA & Inspection (T&D) circle, BSNL,  
3<sup>rd</sup> Floor, 'D' Wing,  
Admin Building, BSNL Complex,  
Santacruz (W), Mumbai - 400 054

**Subject:** PTCC Route Approval for 220kV D/C line from M/s Opera Wind Pvt. Ltd. Pooling S/S (Patan) to 220kV Motipaneli GETCO S/S

**Reference:**

- i) BSNL letter no. IC/MBI/PTCC/GUJ-2745 dated 20/12/2018
- ii) Western Railway letter no. SG.158/28/12/1049 dated 21/01/2019


Sir,

The low frequency induction on BSNL and Western Railway telecommunication circuits as per details furnished vide above cited references (i) & (ii) respectively has been examined. The average soil resistivity value has been taken as 7500 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL and Western Railway telecommunication circuits under SLG (Single Line to Ground) fault condition are enclosed at Annex-I & II respectively. The screening factors as applicable have been considered.

Telecommunication details from Defense are pending, however, the power authority has shown urgency for charging the line. In view of this, you are requested to issue provisional PTCC route

Encl: As above

Yours faithfully,

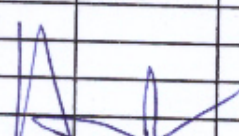
  
(Naresh Bhandari)  
Chief Engineer

**Copy to:**

- (i) Office of CSTE, Western Railway, S&T Dept., 5<sup>th</sup> Floor, Station Building, Churchgate, Mumbai - 400020 (Only Annex-II)
- (ii) Chief Engineer (Projects), GETCO, Sardar Patel Vidyut Bhavan, Race Course, Vadodara - 390007

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## ANNEX-1

CEA Office Case No.----- GUVJ-773		Map scale- 1 Cms = 500 Meters				
DET (PTCC) Office Case No:- 2745		Route Length- 13.81 KMS				
Railway Office Case No.		Soil Resistivity- 7500 Ohm/CM				
Name of Power Line: 220 KV line from M/s. OPERA WIND PVT. LTD.POOLING SUB STATION (PATAN) TO 220 KV MOTI PANELI(GETCO) S/S.						
DETAILS FROM BSNL SIDE		DETAILS FROM POWER COMPANY				
Sl.No.	Name of the Telecom line/Cable	Length of parameter in KM	Mutual coupling in Ohms	Fault Current in Amp	Induce Voltage in Volts	
<b>1 MOTIPANELI EXCHANGE</b>						
1A	Motipaneli Exch. - Local-200*5 P	} ← out of 11km →				
2A	Motipaneli Exch. - Local-100*1 P					
3A	Motipaneli Exch. - Local-100*1 P					
5A	Motipaneli Exch. - Local-200*2 P					
5A	Motipaneli Exch. - Local-50*1 P					
<b>2 JAMJODHPUR EXCHANGE</b>						
1B	Jamjodhpur Exch. - local-- 800*2 P	} ← out of 11km →				
2B	Jamjodhpur Exch. - local-- 400*2 P					
3B	Jamjodhpur Exch. - local-- 200*2 P					
4B	Jamjodhpur Exch. - local-- 100*1 P					
5B	Jamjodhpur Exch. - Kotda village-- 50*1 P					
6B	Jamjodhpur Exch. - Gingni Village--100*1+ 50*1 P	} ← IV less than 430V →				
7B	Jamjodhpur Exch. - Vasantpur Village-- 50*1 P					
<b>3 SIDHSAR EXCHANGE</b>						
1C	Sidhsar Exch.-Local- 200*1 p	} ← IV less than 430V →				
2C	Sidhsar Exch.-Local- 100*1 p					
3C	Sidhsar Exch.-Local- 20*1 p					
4C	Sidhsar Exch.-Valasan Village- 50*1 p					
						
			<b>नरेश भंडारी / NARESH BHANDARI</b> मुख्य अभियंता / Chief Engineer केंद्रीय विद्युत प्राधिकरण / C.E.A. विद्युत मंत्रालय / Ministry of Power भारत सरकार / Govt. of India नई दिल्ली / New Delhi-66			

