



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-777/3 67-369

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 Hadala – Maruti Wind Park India Pvt. Ltd.  
Transmission Line

**Reference:**

- i) BSNL letter no. IC/MBI/PTCC/GUJ-2765 dated 28/02/2019
- ii) Western Railway letter no. SG.158/28/12/1087 dated 27/02/2019

Sir,

The low frequency induction on BSNL telecommunication circuits as per details furnished vide above cited references (i) has been examined. The average 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 telecommunication circuits under SLG (Single Line to Ground) fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. Western Railway vide above reference (ii) has issued NOC.

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

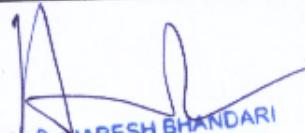
**Copy to:**

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

M/C

## ANNEX-I

CEA Office Case No.----- GUT-777		Map scale- 1 Cms = 500 Meters			
DET (PTCC) Office Case No. 2765		Route Length- 19.05 KMs			
Railway Office Case No.		Soil Resistivity- 10,000 Ohm/CM <sup>2</sup>			
Name of Power Line: 220 KV D/C Hadala S/S - Maruti Wind Park India Pvt. Ltd. Line on D/C Tower with Twin AL-59 Conductor with OPGW Cable for evacuation of 200 MW wind Power generation.					
DETAILS FROM BSNL SIDE		DETAILS FROM POWER COMPANY			
Sl.No.	Name of the Telecom line/Cable	Length or parameter in KM	Mutual coupling in Ohms	Fault Current in Amp	Induce Voltage in Volts
1	MITANA EXCHANGE				
1A	Mitana Ex- Highway- Local--400*1 P		← 1V less than 430V →		
2	NEKNAM EXCHANGE				
1B	Neknam Exch-Pillar-200*1 P	}	← 1V less than 430 V →		
2B	Neknam Exch-Mitana Road-100*1 P				
3B	Neknam Exch-Dahinsarda Road-100*1 P				
3	RATANPAR EXCHANGE				
1C	Ratanpar Exch.- Local- 200 P	}	← out of 112m →		
2C	Ratanpar Exch.- Local- 100*1 + 50*1 P				
3C	Ratanpar Exch.- Gavridad Pillar- 100 P				

  
 नरेश भंडारी / NARESH BHANDARI  
 मुख्य अभियंता / Chief Engineer  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi-66