



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-776/783-784

Date : 05.07.2019

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

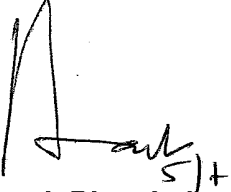
**Subject:** Induced Voltage Calculation in respect of PTCC proposal for Adani Green Energy MP Ltd  
Dayapar Pooling Station – Bhuj PS 220 kV D/C line

**Reference:** i) BSNL letter no. IC/MBI/PTCC/GUJ-2766 dated 28.02.2019  
ii) Western Railway letter no. SG.158/28/12/1088 dated 27.02.2019  
iii) Defense letter no. B/46937/Sigs 7(b)/1426 dated 22.05.2019

Sir,  
The instant PTCC proposal has been examined. The low frequency induction on telecom cables of BSNL with respect to details furnished vide above reference have been computed. The Soil Resistivity (SR) value has been taken as 2000 Ohm-cm. The voltages likely to be induced on paralleling telecom cables of BSNL under Single Line to Ground fault condition are enclosed at Annex-I. The screening factors, as applicable, have been considered. Vide ref. (ii) above, Western Railway have intimated that "Western Railway lines are out of 8 km area of proposed power line". Vide ref. (iii) above, Defense Authority have issued No Objection Certificate (NOC) (enclosed as Annex – II).

Taking above into consideration, kindly take necessary action for PTCC route approval.

**Encl.:** As above

  
(Naresh Bhandari)  
Chief Engineer

Copy to:

M/s Adani Green Energy (MP) Ltd, Adani House, Nr Mithakhali Six Roads, Navrangpura, Ahmedabad,  
Gujarat - 380009

M/C

## Annex-I

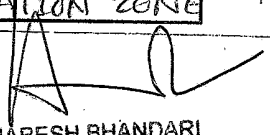
CEA Office Case No. --- GUT-776		Map scale- 1 Cms = 500 Meters			
DET (PTCC) Office Case No. 2765		Route Length- 55.22 KMs			
Railway Office Case No.		Soil Resistivity- 2000 $\Omega$ -cm			
Name of Power Line :- Adani Green Energy MP Ltd Deogarh Pooling station - Bhuj PS 220kV DC Line					
DETAILS FROM 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
1	NIRONA EXCHANGE				
1A	Nirona Ex- Local 100x1+20x2P				
2A	Nirona Ex- Local 50x1P				
3A	Nirona Ex- Local 20x3P				
2	DEVISAR EXCHANGE				
1B	Devisar Ex- Local 200x1P				
3	UGEDI EXCHANGE				
1C	Ugedi Exch.- Pillar- 400*1 P				
2C	Ugedi Exch. - Ratadiya - 50 *1 P				

- OUTSIDE IV CONSIDERATION ZONE

- IV LESS THAN 430 V

- IV LESS THAN 430 V

- OUTSIDE IV CONSIDERATION ZONE

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

Tele : 23019746

GOST-776

Annex-II

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

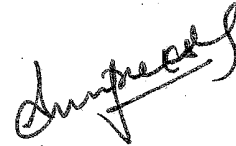
B/46937/Sigs 7(b)/1426/

22 May 2019

Adani Green Energy (MP) Limited  
Adani House  
Nr. Mithakhali Six Roads  
Navrangpura  
Ahmedabad 380 009  
Gujarat, India

**SUBMISSION OF PROPOSAL PTCC ROUTE APPROVAL OF CONSTRUCTION OF  
PROPOSED 220KV D/C TRANSMISSION LINE FROM 220KV S/S OF M/S ADANI GREEN  
ENERGY (MP) LTD TO EXISTING 765KV PGCIL S/S AT BHUJ-KUTCH GUJARAT ON SELF  
EXECUTION BASIS**

1. Ref your letter No AGE(MP)L/PTCC/18-19/220kv DYPR-01 dt 23 Jan 2019 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.



(A Rawat)  
Maj  
GSO 1 (Comn)  
for SO-in-C

**Enclosures** : (As above)

**Copy to:**

✓ The Director (PTCC), CEA  
Power Communication Development Division  
NRPC Complex, 18-A Shaheed Jeet Singh Marg  
Katwaria Sarai, New Delhi - 110016

for information.