



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division

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No.: CEA/PCD/PTCC/JHR-51/630-632

Date: 09.10.2020

**Subject:** PTCC proposal of 400 kV D/C Godda TPP – Indo-Bangladesh Border transmission line (Jharkhand Portion) -regd.

**Ref:** (i) Adani Power (Jharkhand) Ltd Ref. No. APJL/PKR/TL/STAT/21 dated 31.08.2019 and email dated 16.09.2020 containing BSNL's circuit details.  
(ii) BSNL Ref. No. DE/PTCC-ER/EJH 111020190046 dated 29.06.2020  
(iii) Eastern Railway Ref. No. SG.241/1/PTCC/263 dated 05.12.2019  
(iv) Defense Ref. No. B/46937/Sigs 7(b)/1865 dated 26.12.2019

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on BSNL cables and Eastern Railway telecom circuits, as per details furnished vide ref. (ii) and (iii) respectively, has been examined. The Soil Resistivity value has been taken as 40,000 Ohms-cm. Voltages likely to be induced on paralleling BSNL cables and Eastern Railway telecom circuits under single line to ground fault condition are enclosed at Annex-I and II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III).

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

**Encl.:** As above.

उपेन्द्र कुमार

(Upendra Kumar)

Chief Engineer

To,  
DE (PTCC), Eastern Region,  
Inspection & QA Circle, BSNL  
Q.A. Bhawan, EP-GP Block, Sector-V,  
Salt Lake, Kolkata – 700091

MIC

**Copy to:**

1. PCSTE, Eastern Railway, HQ Building, 17, Netaji Subhas Road, Fairlie Place, Kolkata - 700001 – (with Annex-II)
2. M/s Adani Power (Jharkhand) Ltd, Adani House, Shantigram, SG Highway, Ahmedabad, Gujarat - 382421

Annex-I

CEA office case No. JHR-51	Map Scale- 1:50000
DET (PTCC) office case No. -	Route Length- 82 km
Railway office case No. -	Soil Resistivity- 40000 $\Omega$ cm
Name of the Power Line	400kV D/C Godda TPP-Indo-Bangladesh Border Transmission Line

(Jharkhand Portion)

Sr. No	Name of the Telecom line/cable	Length of Parallelism in Kms	Mutual Coupling in Ohms	Fault Current in Amps	Induced Voltage in Volts
X	KOTALPUKUR TE to BUAI PUR (2km)- 20 pairs U/G Cable	}	IV	less than 430	V
Y	KOTALPUKUR TE to SHANTI CHOWK PP (500mtr)- 200 pairs U/G Cable				
Z	KOTALPUKUR TE to old Police Station (300mtr)- 50 pairs U/G Cable				

Prateek

प्रतीक प्रदीप कुमार शrivastava  
 सहायक निदेशक (अनुसंधान) प्रोटेक्टर-II  
 क्षेत्रीय कार्यालय, एन.डी.ए.ए.  
 विद्युत संचयन विभाग, विद्युत विभाग  
 भारत सरकार, नई दिल्ली  
 नई दिल्ली, New Delhi





## ANNEXURE - II

<b>Case No.: JHR-51</b> <b>Name of the Power line:</b> 400 kV D/C Godda TPP – Indo-Bangladesh Border transmission line (Jharkhand Portion)			<b>Map Scale</b> : 1cm=500mts <b>Total Length</b> : 82 km. <b>S.R. Value</b> : 40,000 Ohms-cm		
S.No	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

<b>Eastern Railway</b>					
SG.241/1/PTCC/263 dated 05.12.2019					
1	Tildanga to New Farakka	1.85	0.0006	12000	7
2	Gumani to Kotalpukur	3.3	0.0009	10000	9
3	Kotalpukur to Tilbhita	1.5	0.0031	10000	31

*Prateek*

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
 सहायक निदेशक-II / Asstt. Director-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत विभाग / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

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

B/46937/Sigs 7(b)/1865/

26 Dec 2019

Adani Power (Jharkhand) Ltd  
Adani House  
Shantigram, S G Highway  
Ahmedabad 382 421  
Gujarat, India

PTCC PROPOSAL FOR 400KV D/C GODDA TPP-INDO BANGLADESH BORDER  
TRANSMISSION LINE-JHARKHAND PORTION

1. Ref your letter No APJL/PKR/TL/STAT/21 dt 31 Aug 2019. (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet 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 (Comd)  
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

Divisional Engineer Telegraph (PTCC)  
O/o GM (North), BSNL, QA & Inspection Circle,  
CTS Compound, Africa Avenue Road,  
Netaji Nagar, New Delhi-110023

for information