



M/C

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/HRA-220 /2597-99

Date: 19.12.2018

DET (PTCC), Northern Zone
O/o PGM(N), Inspection Circle,
CTS Compound, Netaji Nagar,
New Delhi - 110023

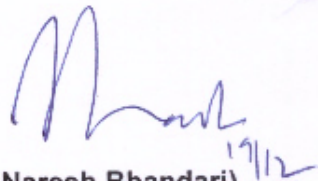
Sub: PTCC Route Approval for 400 kV D/C (TWIN-HTLS) Prithala to Kadarapur T/L

Ref: (i) BSNL letter no. DET/PTCC/ND/DV-9364/HR-828/ dated 25.07.2018
(ii) Northern Railway letter no. 342-SIG/1/PTCC dated 27.03.2018
(iii) Defense letter no. B/46937/Sigs 7(b)/1052 dated 20.04.2018

The low frequency induction on BSNL and Railway Telecommunication circuits as per details furnished vide above cited references (i) and (ii) respectively has been examined. The Average Soil Resistivity value has been taken as 50,000/30,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL Telecom Cables and Railway Telecommunication circuits under single line to ground fault condition are enclosed at Annex-I&II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above Ref.(iii) for the above line (a copy enclosed at Annex-III).

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

Encl.: As above


(Naresh Bhandari)
Chief Engineer

Copy to:

- (i) GM(S&T), Northern Railway, Headquarter Office, Baroda House, New Delhi (Annex – II only)
- (ii) Deputy Manager – Projects, Gurgaon – Palwal Transmission limited, F-1, The Mira Corporates Suites, 1&2, Ishwar Nagar, Mathura Road, New Delhi – 110065.


ANNEXURE - I

Case No.: HRA-220					
Name of the Power Line : 400KV D/C TWIN HTLS PRITHALA - KADARPUR T/L		मानचित्र स्केल : 1 सेमी=500 मीटर कुल लम्बाई : 28.957 कि.मी. एस. आर. मान : 30,000/50,000 ओम- सेमी			
क्रम संख्या	टेलीकाम विवरण	समानांतरिय लम्बाई (कि.मी) में	म्युचुअल कप्लिंग (ओम) में	प्रभावी फाल्ट करंट (एम्पियर) में	प्रेरण वोल्टेज (वोल्ट) में

BSNL DETAIL					
Ref. No: DET / PTCC / ND / DV-9364 / HR-828 DATED: 25-07-2018					
1	Sohna Exge. To Rojka Village				
2	Sohna Exge. To Raipur Village				
3	Sohna Exge. To Jewal Colony				
4	Sohna Exge. To Palwal CHowk				
5	Palwal Chowk to Lakhuwas Village				
6	Palwal Chowk to Agrasen Park				
7	Sohna Exge. To Chilled Point				
8	Sohan Exge. To Fuhara Chowk				
9	Fuhara Chowk to Purani Sabzi Mandi				
10	Sohna Exge. To Dhunela Village				
11	Sohna Exge. To Lotki Village				
12	Sohna Exge. To Baluda More				
13	Baluda More to Baluda Village				
14	Sohna Exge. To Police Chowki				
15	Police Chowki to Labour Chowk				
16	Sohna Exge. To Indri More				
17	Indri More to Atta Village				
18	Daula Exge. To Harchandpur Village				
19	Daula Exge. To Damdama More				
20	Daula Exge. To Kharoda Chowk				
21	Daula Exge. To Baluda Village				
22	Daula Exge. To Gari Chowk	2.8	0.0563	11250	633
23	Gari Chowk to Avaypur Village	3.0	0.0573	11200	642
24	Avaypur Village to Damdama Lake				
25	Prithala Chowk to Kabirfur				
26	Prithala Chowk to Tatarpur Chowk				
27	Prithala Exge. To Prithala Chowk				
28	Prithala Chowk to Elder Hydro Company				
29	Prithala Chowk to Mahindra				
30	Prithala Chowk to Miranpur Road				
31	Elder Hydro to Baghola Village				
32	Baghola Road to Baghola Village				
33	Baghola Pillar to Miranpur Pillar				
34	Dudhola Mor to Abbot Air System				
35	Prithala Exge. To Chhapraula Mor				
36	Prithala Exge. To ACE Company				
37	Dudhola Mor to Elder Hydro				
38	Dudhola Mor to Mohata Steel				

----IV less than 430----

----IV less than 430----


 19.12.18
 मुख्य अभियंता/Chief Engineer
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 सेवा भवन, आर.के. पुरम,
 Sewa Bhawan, R.K. Puram,
 नई दिल्ली-66/New Delhi-66

ANNEXURE - I

Case No.: HRA-220

Name of the Power Line : 400KV D/C TWIN HTLS PRITHALA - KADARPUR T/L

मानचित्र स्केल : 1 सेमी=500 मीटर
कुल लम्बाई : 28.957 कि.मी.
एस. आर. मान : 30,000/50,000 ओम- सेमी

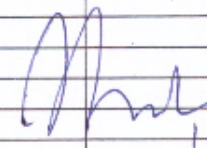
क्रम संख्या	टेलीकाम विवरण	समानांतरीय लम्बाई (कि.मी) में	म्युचुअल कप्लिंग (ओम) में	प्रभावी फाल्ट करंट (एम्पियर) में	प्रेरण वोल्टेज (वोल्ट) में
39	Dudhola Mor to Prithala Village				
40	Tatarpur Chowk to Asaoti				
41	Tatarpur Chowk to Jatoula				
42	Asaoti Chowk to Asoati Village				----IV less than 430----
43	Tatarpur Chowk to Kailash Agro				
44	Tatarpur Chowk to Devali Village				
45	Alawalpur Exge. To Nayagaon Road				---out of parallelism---
46	Palwal Exge. To Bank of Baroda				
47	Palwal Exge. To Minar Gate				
48	Palwal Exge. To Bhawan Kund				
49	Palwal Exge. To Bus Stand				
50	Palwal Exge. To Sector 2				----IV less than 430----
51	Minar Gate to Civil Hospital				
52	Agra Chowk to D.O Residence				
53	Agra Chowk to Mangla Udyog				
54	Maruti Kunj Exge. To Petrol Pump				
55	Petrol Pump to Laburnum School Bhondsi				---out of parallelism---

[Handwritten Signature]
 15.12.18
 मुख्य अभियंता/Chief Engineer
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 सेवा भवन, आर.के. पुरम,
 Sewa Bhawan, R.K. Puram,
 नई दिल्ली-66/New Delhi-66

ANNEXURE - II

Case No.: HRA-220					
Name of the Power Line : <u>400KV D/C TWIN HTLS PRITHALA - KADARPUR T/L</u>		मानचित्र स्केल : 1 सेमी=500 मीटर कुल लम्बाई : 28.957 कि.मी. एस. आर. मान : 30,000/50,000 ओम- सेमी			
क्रम संख्या	टेलीकाम विवरण	समानांतरिय लम्बाई (कि.मी) में	म्युचुअल कप्लिंग (ओम) में	प्रभावी फाल्ट करंट (एम्पियर) में	प्रेरण वोल्टेज (वोल्ट) में

	Northern Railway Ref. No: 342-SIG /1/PTCC DATED: 27-03-2018				
	Affected Blocks & Telcom Circuits Details				
1	Ballab Garh to Piyala R/S	---out of parallelism---			0
2	Piyala to Asaoti R/s	0.9	0.0003	12850	4
3	Asaoti to Palwal R/S	1.2	0.0005	13390	7


 19.12.18
 मुख्य अभियंता/Chief Engineer
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 सेवा बहवार, ऑफिस - पूरम,
 Sewa Bhowar, Office - Puram,
 नई दिल्ली-66/New Delhi 66

Army - III

Tele: 23019746

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

B/46937/Sigs 7(b)/1052 /

20 Apr 2018

Deputy Manager (Project)
Gurgaon - Palwal Transmission Ltd
F-1, The Mira Corporate Suites,
1 & 2, Ishwar Nagar, Mathura Road,
New Delhi - 110065

REGARDING REGISTRATION OF PTCC PROPOSAL FOR 400KV D/C TWIN HTLS)
PRITHALA - KADARPUR TRANSMISSION LINE

1. Reference your letter No. GPTL/Design & Engineering/2017-18/160 dated 27 Feb 2018.
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.

(AV Umdekar)
Lt Col
GSO 1 (Comn)
for SO-in-C

Copy to :-

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

- For information.