सत्यमेव जयते

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

No.: CEA/PCD/ PTCC/HRA-225/ 41-43 Date: 10.01.2020

The Divisional Engineer (Telecom), BSNL
PTCC O/o GM (North), Inspection Circle (T & D),
CTS Compound, Netaji Nagar,
Africa Avenue, New Delhi - 110023

Subject: PTCC proposal for 220 kV D/C line from 400 kV S/S Abdullapur to 220 kV S/S Rajokheri.

Ref. :

(i)	HVPNL Ref. No. 136/CW-579	Dated: 20.08.2019
(ii)	BSNL Ref. No. DET/PTCC/ND/DV-9578/HR-837/2019-20	Dated: 04.11.2019
(iii)	Northern Railway Ref. No. 342-SIG/1/PTCC	Dated: 23.09.2019

The PTCC proposal submitted vide ref. (i) has been examined. The low frequency induction on BSNL cables and block circuits of Northern Railways as per details furnished vide ref. (ii) and ref. (iii) respectively has been examined. The Soil Resistivity value has been taken as 10,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL cables and Railway block circuits under single line to ground fault condition are enclosed at Annex-I and Annex- II respectively. The screening factors as applicable have been considered.

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

Encl.: As above.

Upendra Kumar
10/01/2020

(Upendra Kumar)
Chief Engineer

M/c

Copy to :

1. General Manager (S&T), Northern Railway, Office Headquarters, Baroda House, New Delhi-110001. (Annexure - II only)
2. Executive Engineer, Transmission System, Haryana Vidyut Prasaran Nigam Ltd., Ambala City (HR)-134003.

Case No. : HRA-225

Name of the Power Line: LILO of 220 KV D/C Line from 400 KV PGCIL Abdullapur to Rajokheri at 220 KV S/Stn Rajokheri (U/C) HVPNL

Annexure I

Toposheet Scale : 1cm=500mts

Total Length : 22.346 Kms

S.R Value : 10,000 Ω-Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
BSNL Reference No. DET/PTCC/ND/DV-9578/HR-837/2019-20 Date : 04.11.2019					
	BSNL Details				
1	Mustafabad to Sultanpur (150Pr)	IV less than 430V			
2	Mustafabad to Bhagwanpur (150Pr)				
3	Mustafabad to Chappar mansurpur (600Pr)				
4	Mustafabad to Uncha Chandna (50Pr)				
5	Mustafabad to Gundapra (50Pr)				
6	Gundapra to Ningauli (50 Pr)				
7	Tala Kaur to Nangla Jagur (150 Pr)	Out of Parallelism			
8	Tala Kaur to Pinjora (150 Pr)				
9	Bhembauli to Rajpur (100 Pr)				
10	Bhembauli to Kail (200 Pr)				
11	Sudhel to Jhandhera (100 Pr)	IV less than 430V			
12	Harnaul to Akbarpur (200 Pr)				
13	Khan ahmadpur to manki (100 Pr)				
14	Dhin to Rukri (50 Pr)				
15	Ganganpur to Holi (100 Pr)				
16	Milk Shekhan to Dera Salempur (100Pr)				
17	Thamber to Talheri (100 Pr)				
18	Bir Mangoli to Simbalwal (100 Pr)	Out of Parallelism			
19	Lakhmari to Bohawi (50 Pr)	IV less than 430V			
20	Adhya to Barara (400 Pr)				
21	Barara to Sion Majra (150 Pr)	Out of Parallelism			
22	Rajukhiri to Subri (100 Pr)	IV less than 430V			
23	Rajauli to Ghelri (50 Pr)				

15/6/2020

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

ANNEXURE – II

Case No.: HRA-225
Name of the Power line :Lilo of 220KV Of D/C Line from 400 KV PGCIL Abdullapur to Rajokheri at 220KV S/Stn. Rajokheri (U/C)HVPNL

Map Scale : 1cm=500mts
Total Length : 22.346 Km.
S.R. Value : 10,000 Ohms-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
	NORTHERN RAILWAY Ref. No: 342 – SIG / 1 PTCC DATED: 23-09-2019				
	Affected Blocks & Telcom Circuits Details				
1	Kesri – Barara	1.5	0.0026	9000	23
2	Barara – Mustafabad	10.4	0.0173	5700	99
3	Mustafabad - Darazpur	7.8	0.0039	6200	24

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