File No.CEA-PS-17-11(11)/41/2021-PCD Division 1304-1306

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division
****

Case No.: PNB-361:

PTCC proposal for LILO of 220 kV Suman to Mansa transmission line at 400 kV S/S Patran : 42.737 km

Reference:

S. No.	Reference No.	Dated
(i)	PSTCL,Patiala Addl. SE/TS-II Endst. No. 413	21.05.2019
(ii)	BSNL:DET/PTCC/ND/DV-9526/PB-911/2019-2020	17.01.2020
(iii)	Northern Railway: 342-SIG/1/PTCC/2019-20/12/04 (complete details received on 30.06.2021)	19.12.2019
(iv)	Defense: B/46937/ Sigs 7(b)/1659	21.08.2019

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of BSNL and Block & Telecom circuits of Northern Railway with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of Northern Railway under Single Line to Ground fault condition are enclosed at Annexure-I and Annexure-II respectively. The screening factors, as applicable, have been considered. The Defense Authority have accorded NOC vide above reference (iv) for the proposed power line.

Taking above into consideration, necessary action regarding issuance of PTCC route approval may be taken.

Encl.: As above.

Signature Not Verified
Digitally signed by RAJHVENDRA PRATAP SINGH
Date: 2021.07.19 11:03:43 IST

Director

To,

1.	Divisional Engineer (PTCC), Northern Zone	BSNL O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001.	Annexure-I only
2.	AESTE/UTS	Northern Railway, Head Quarter Office, Baroda House, New Delhi-110001.	Annexure-II only
3.	Addl. SE/TS-II, Patiala	PSTCL; Office of Chief Engineer-Transmission System, 3rd Floor, Shakti Sadan, Patiala-147001.	Copy for information

M/C

Case No. : PNB-361

Annexure I

Name of the Power Line: LILO of 220 KV Sunam- Mansa Line at 400 KV S/S PGCIL Patran Line

Toposheet Scale : 1cm=500mts
Total Length : 42.737Kms
S.R Value : 12,000 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-9526/PB-911/2019-20 Date : 17.01.2020					
	BSNL Details				
1	Upli TE – Chatta Sekhawan Pillar (100 Pr) 0.4 KM				
2	Upli TE – Tung Pillar (100 Pr) 3.1 KM				
3	Kheri TE – Kanoi pillar (50 Pr) 1.6 KM				
4	Kheri TE – Kular Khurel pillar (100 Pr, 50 Pr) 3.9 KM				
5	Sunam TE – Kharial de Kothe Pillar (50 Pr) 4.0 KM				
6	Sunam TE – Bigharwal Pillar (100 Pr, 50 Pr) 3.0 KM				
7	Sunam TE – Bishanpura Pillar (200 Pr) 1.9 KM				
8	Sunam TE – Lakhmirwale Pillar (50 Pr) 1.8 KM				
9	Sunam TE – Bharor Pillar (50 Pr) 4.5 KM				
10	Sunam TE – Faizgarh Hakimwala- Naktewala Pillar (50 Pr) 2.3 KM				
11	Sunam TE – Singhpura Pillar (50 Pr) 2.7 KM				
12	Mehlan TE – Mardkhera Pillar (50 Pr) 2.2 KM	IV less than 430V			
13	Sulhar Gharat TE- Mauran Pillar (50 Pr) 2.4 KM				
14	Sulhar Gharat TE- Taranji Khera Pillar (50 Pr) 2.1 KM				
15	Sulhar Gharat TE- Damdali Khurd Pillar (50 Pr) 4.3 KM				
16	Chatta Nanhera TE- Rataulan Pillar (50 Pr) 1.5 KM				
17	Chatta Nanhera TE- Kharial Pillar (50 Pr) 3.2 KM				
18	Chatta Nanhera TE- Ramgarh jawindah Pillar (50 Pr) 2.3 KM				
19	Chatta Nanhera TE- Chhahar Pillar (50 Pr) 3.5 KM				
20	Dirba TE- Tur Banjara Pillar (50 Pr) 2 KM				
21	Dirba TE- Jonal Pillar (100 Pr) 2.5 KM				
22	Dirba TE- Karial- Sindranwale Pillar (50 Pr) 4.7 KM				
23	Dirba TE- Rampur Gujran- Khatla Pillar (100 Pr) 4.3 KM				
24	Dirba TE- Gamri Pillar (50 Pr) 3.9 KM				

TANUJ
Asstt. Director-II
सहायक निदेशक-II/C.E.A.
केन्द्रीय विद्युत प्राधिकरण/Ministry of Power
विद्युत मंत्रालय/Govt. of India
भारत सरकार/New Delhi-66
नई दिल्ली

(1/2)

No.: PNB-361

Annexure I

Toposheet Scale : 1cm=500mts

Total Length : 42.737Kms

S.R Value : 12,000 Ohm-cm

the Power Line: LILO of 220 KV Sunam- Mansa Line at 400 KV S/S PGCIL Patran Line

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
25	Dirba TE- Kaimpur- Rogla Pillar (100 Pr, 50 Pr) 5.8 KM				
26	Ladbanjara Kalan TE- Kheri Nanga Pillar (50 Pr) 2.8 KM				
27	Ladbanjara Kalan TE- Kakuwala Pillar (50 Pr) 3.2 KM				
28	Ladbanjara Kalan TE- Ladbanjara Khurd Pillar (50 Pr) 1.4 KM				
29	Ladbanjara Kalan TE- Nihalgarh Pillar (50 Pr) 3.6 KM				
30	Banwala TE- Darauli Pillar (50 Pr) 1.4 KM				
31	Banwala TE- Tambnwala Pillar (50 Pr) 1.3 KM				
32	Patran TE- Deogarh Pillar (50 Pr) 3.2 KM				
33	Patran TE- Khaspur-Kahangarh-Ganganagar-Dotal Pillar (100 Pr) 5.7 KM				
34	Patran TE- Nial Pillar (200 Pr) 0.9 KM				
35	Patran TE- Laiwa Pillar (50 Pr) 3.5 KM				
36	Patran TE- Burar Pillar (50 Pr) 3.6 KM				
37	Patran TE- Doga Pillar (50 Pr) 4.2 KM				
38	Thuhar TE- Daftariwala Pillar (100 Pr) 0.6 KM				
39	Ghagga TE- Bishangarh Branch Pillar (100 Pr) 1.8 KM				
40	Ghagga TE- Atalan Pillar (100 Pr, 50 Pr) 4.7 KM				
41	Raidhariana TE- Shadihari Pillar (50 Pr) 1.6 KM				
42	Raidhariana TE- Harigarh Pillar (50 Pr) 2.5 KM				
43	Raidhariana TE- Dhandial Pillar (50 Pr) 2.3 KM				

IV. less than 430V

(TANUJ)

सहायक निदेशक (दूरसंचार-II)
केन्द्रीय विद्युत प्राधिकरण/
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

(2/2)