



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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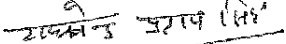
Case No.: PNB-368: 1354-55
PTCC proposal for 220 kV D/C transmission line from 400 kV Rajpura S/S to 220 kV Bassi Pathana: 24.267 km

Reference:		24-08-2021
S. No.	Reference No.	Dated
(i)	PSTCL, Patiala Addl. SE/TS-II Endst. No. 1734	18.06.2020
(ii)	BSNL:DET/PTCC/ND/DV-9736/PB-925/2021-22	03.06.2021
(iii)	Northern Railway: 342-SIG/1/PTCC/2020-21/07/08 (complete details received on 30.06.2021)	15.07.2020
(iv)	Defense: B/46937/ Sigs 7(b)/2090	05.11.2020

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.

  
Director 24.08.21

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-368

(Annexure I)

Toposheet Scale : 1cm=500mts  
 Total Length : 24.267 Kms  
 S.R Value : 10,000 Ohm-cm

Name of the Power Line: 220 KV D/C line from 400 KV S/S Rajpura to 220 KV S/S Bassi Pathana

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
<b>BSNL</b>					
Reference No. DET/PTCC/ND/DV-9736/PB-925/2021-22 Dated:- 03.06.2021					
BSNL Details					
1. 50 Pairs cable	Khera to Rajinder Garh 3.6 KM	}			IV less than 430V
	Rajinder Garh to Patراسي Chhoti 0.6 KM				
	Patراسي Chhoti to Patراسي baddi 0.8 KM				
	Khera to Dangherian 1.2 KM				
	Dangherian to Bibipur 0.8 KM				
2. 50 pairs cable	Rampur Naubad to Dera Aror Singh wala 0.2 KM	}			
	Dera Aror singh wala to Boran 2.8 KM				
	Dera Aror singh wala to Sadhugarh 3 Km				
3. 200 Pair cable	Boran to Rasidpura 6.5 KM	}			
	Bassi pathana to Rasulpur 2.7 KM				
	Bassi pathana to Sahidgarh 1.2 KM				
	Sahidgarh to fatehpur Aryan 1.2 KM				
	Fatehpur Aryan to Mahmoodpur 2 KM				

TANUJ  
 Director-II / Asst. Director-II  
 तंत्रिका विभाग / Ministry of Power  
 केंद्रीय विद्युत आयोग / Ministry of India  
 नया दिल्ली / New Delhi-66

**ANNEXURE - II**

<b>Case No.: PNB-368</b> <b>Name of the Power line: 220 kV D/C transmission line from 400 kV Rajpura S/S to 220 kV Bassi Pathana.</b>			<b>Map Scale : 1cm=500mts</b> <b>Total Length : 24.267 Km.</b> <b>S.R. Value : 10,000 Ohms-cm</b>		
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/2020-21/07/08 Dated 15.07.2020

**Affected Blocks & Telecom Circuits Details**

Rajpura to Ludhiana

1	Rajpura R/S to Sarai Banjara R/S	2.9	0.0021	8788	19
2	Sarai Banjara R/S to Sadhoo Garh R/S	6.2	0.0082	5416	45
3	Sadhoo Garh R/S to Sirhind R/S	6.7	0.0031	5678	18
4	Sirhind R/S to Mandi Gobind Garh R/S	2.1	0.0002	7917	02

Sirhind to Morinda

1	Sirhind R/S to Fatehgarh Sahib R/S	2.6	0.0003	8125	03
2	Fatehgarh Sahib R/S to Bassi Pathanan R/S	2.2	0.0009	8756	08
3	Bassi Pathanan R/S to Nogawan R/S	0.6	0.0009	9899	09



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