

I/26939/2023



सत्यमेव जयते

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

CEA Case No. : DL-34		
PTCC approval for 220 kV 1x1200 sq. mm UG XLPE cable from DTL Electric lane substation to JB No.1 (near Park Street S/s) of circuit between 220 kV Electric Lane to DTL Dev Nagar S/s (3.5 km) -Regd.		
S. No	Reference No.	Dated
(i)	DTL: F.DTL/2012/Manager (T) PII-A2/22-23/Opr.(Proj)/F-23/113	22.09.2022
(ii)	DTL: F.DTL/2012/Manager (T) PII-A2/22-23/Opr.(Proj)/F-23/181	16.01.2023
(iii)	DTL: F.DTL/2012/Manager (T) PII-A2/22-23/Opr.(Proj)/F-23/216	22.03.2023
(iv)	DTL: F.DTL/2012/Manager (T) PII-A2/22-23/Opr.(Proj)/F-23/218	24.03.2023
(v)	BSNL: DET/PTCC/ND/DV-10172/ND-237/2022-23	01.03.2023
(vi)	Northern Railway: 342-SIG/1/PTCC/2022-23/01/03	31.01.2023
(vii)	DMRC: DMRC/S&T/Tele/PTCC/MISC/DTL/Parkstreet/01	15.03.2023

The PTCC proposal submitted vide reference (i) and (ii) has been examined. The LF induction on Block and Telecom circuits of BSNL/ MTNL, Northern Railway and DMRC with respect to details furnished vide above reference (v), (vi) & (vii) respectively have been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of BSNL/MTNL, Northern Railway and DMRC under Single Line to Ground fault condition are enclosed at Annexure-I, Annexure-II and Annexure-III respectively. The screening factors as applicable have been considered. Telecom details from DG Signals, MoD is pending.

DTL vide reference (iv) above has shown urgency for charging the subject transmission line and requested for provisional PTCC approval citing the completion of work in all respect and the crucial role of transmission line to secure uninterrupted power supply to VVIP areas of NDMC during G20 summit.

Taking above into consideration, necessary action regarding issuance of provisional PTCC approval for the subject cited transmission line might be taken under intimation to this office.

Encl.: As above

Chief Engineer

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To,

1.	Divisional Engineer (PTCC), Northern Zone	BSNL, O/o PGM(North), QA & Inspection Circle D-Tax Building, Eastern Court, Janpath New Delhi-110001	
2.	GM (S&T)	Northern Railway, HQ's Office, Baroda House, New Delhi	
3.	Jt. GM/ Telecom	Delhi Metro Rail Corporation, office of S&T, 5 th floor, NBCC Place, Pragati Vihar, Lodhi Road, New Delhi - 03	
4.	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105	With a request to provide details of Telecom assets/ NOC at the earliest for issuance of final RAC.
5.	Sr. Manager (T), Projects-II-A2	DTL, Room No. R-5, Shaktideep Bldg., Jhandewalan Extn., New Delhi – 110 002	For information

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ANNEXURE-I

CEA Case No.: DL-34			Map Scale : 1 cm= 500 m		
Name of the Power line: 220 kV 1x1200 sq. mm UG XLPE cable from DTL Electric lane substation to JB No.1 (near Park Street S/s) of circuit between 220 kV Electric Lane to DTL Dev Nagar S/s			Total Length : 3.5 km		
			S.R. Value : 5,000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

BSNL Letter No.: DET/PTCC/ND/DV-10172/ND-237/2022-23 Dated 01.03.2023**Affected Blocks & Telecom Circuits Details**

1	Talkatora Road to Pandit Pant Marg	0.6	0.00739	14667	108
2	Mahadev Road to Pandit Pant Marg	0.4	0.00493	17333	85.45
3	Ashoka Road to Janpath Road	0.6	0.00739	20000	147.8
4	Janpath to Ferozshah Road	0.1	0.00123	20600	25.4
5	Janpath to Le Meridian Hotel	0.1	0.00123	20750	25.5
6	Janpath to Janpath Road	0.1	0.00123	21740	26.75

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ANNEXURE-II

CEA Case No.: DL-34			Map Scale : 1 cm= 500 m		
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			S.R. Value : 5,000 Ohm-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: 342-SIG/1/PTCC/2022-23/01/03 Dated 31.01.2023

Affected Blocks & Telecom Circuits Details

1	Delhi R/S to Sadar Bazar R/S	Out of parallelism			
2	Sadar Bazar R/S to Delhi Sarai Rohilla R/S	Out of parallelism			
3	Delhi Sarai Rohilla R/S to Patel Nagar R/S	Out of parallelism			
4	Patel Nagar R/S to Delhi Cantt. R/S	Out of IV consideration zone			
5	Delhi Cantt. R/S to Palam R/S	Out of parallelism			
6	Palam R/S to Shahabad Mohammadpur R/S	Out of parallelism			
7	Shahabad Mohammadpur R/S to Bijwasan R/S	Out of parallelism			
8	Bijwasan R/S to Gurgaon R/S	Out of parallelism			
9	Hazrat Nizamuddin R/S to Pragati Maidan R/S	Out of parallelism			
10	Pragati Maidan R/S to Tilak Bridge R/S	Out of parallelism			
11	Tilak Bridge R/S to Shivaji Bridge R/S	0.2	0.0000314	22667	0.7
12	Shivaji Bridge R/S to New Delhi R/S	0.7	0.0004	21450	8.6
13	New Delhi R/S to Sadar Bazar R/S	Out of parallelism			
14	Sadar Bazar R/S to Delhi R/S	Out of parallelism			
15	Delhi R/S to Kishanganj R/S	Out of parallelism			
16	Kishanganj R/S to Day Basti R/S	Out of parallelism			
17	Daya Basti R/S to Shakurbasti R/S	Out of parallelism			
18	Hazrat Nizamuddin R/S to Delhi Safdarjung	Out of parallelism			
19	Delhi Safdarjung to Brar Square R/S	Out of IV consideration zone			
20	Brar Square R/S to Patel Nagar R/S	Out of IV consideration zone			
21	Patel Nagar R/S to Shakurbasti R/S	Out of parallelism			

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S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
DMRC: DMRC/S&T/Tele/PTCC/MISC/DTL/Parkstreet/01 Dated 15.03.2023					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	New Delhi to Green Park Metro Station	1.3	0.00037	22972.9	8.5
2	Kashmiri Gate to Jangpura Metro Station	0.8	0.00052	21730.7	11.3
3	Shivaji Park Metro Station to Dhaula	0.8	0.00016	15625	2.5