



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

CEA Case No. : DL-26:	21.09.2021
PTCC proposal for 220 kV D/C 1 X 1200 Sq. mm. U/G XLPE cable from LILO point of Electric Lane to Park Street S/C Cable at newly proposed 220 kV GIS S/S Dev Nagar (Karol Bagh) on Turnkey Basis: 5.5 km	

Reference:		
S. No.	Reference No.	Dated
(i)	DTL:F.DTL/2020/DGM(P-II)B/20-21/Opr.(Proj)/F-48/66	01.02.2021
(ii)	BSNL:DET/PTCC/ND/DV-9869/ND-229/2021-2022 (MTNL telecom details)	10.09.2021
(iii)	Northern Railway: 342-SIG/1/PTCC/2020-21/03/14	16.03.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2342	17.03.2021

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom cables of MTNL 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 MTNL 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 RAJESHVENDRA
PRATAP SINGH
Date: 2021.09.21 14:47:31 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 Housc, New Delhi-110001. Annexure-II only
3.	DGM(Project)-IIB	Delhi Transco Limited: R. No. 4, 1st Floor, Block A, Shakti Deep Building, Jhandewalan Extension, New Delhi-110055. Copy for information

m/c

CEA

Case No. : DL-26

Name of the Power Line: 220 KV D/C 1x 1200 sq. mm. U/G XLPE
Cable from LILO point of Electric Lane
Park Street S/C Cable to newly proposed
220 KV at Dev Nagar (karol bagh) Line

Annexure I

Toposheet Scale : 1cm=500mts
Total Length : 5.5 Kms
S.R Value : 5,000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in Volts
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MTNL

Reference No. DET/PTCC/ND/DV-9869/ ND-229//2021-22 Dated:- 10.09.2021

MTNL Details					
1	Shankar Road to NDMC Area 1200 pair, 6.5 KM				
2	Dayal Chowk 1200 pair 6.5 KM, 800 pair 6.5 KM, 400 pair, 6.5 KM				
3	Faiz Road 600 Pair, 6.5 KM				
4	Khals College 800 pair, 6.5 KM				

IV less than 430 V

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-65

CEA Case No.: DL-26

ANNEXURE-II

Name of the Power line: 220 kV D/C 1 X 1200 Sq. mm. U/G XLPE cable from LILO point of Electric Lane to Park Street S/C Cable at newly proposed 220 kV GIS S/S Dev Nagar (Karol Bagh) on Turnkey Basis.

Map Scale : 1 cm=500 m
Total Length : 5.5 km
S.R. Value : 5,000 Ω-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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Northern Railway Ref. No. : 342-SIG/1/PTCC/2020-21/03/14

Dated: 16.03.2021

Affected Blocks & Telecom Circuits Details

Delhi Sarai Rohilla- Rewari section

1	Patel Nagar R/S to Delhi Cantt R/S	Out of Parallelism			00
2	Delhi Cantt R/S to Palam R/S	Outside IV Consideration zone			00
3	Palam R/S to Shahabad Mohammadpur R/S	Outside IV Consideration zone			00
4	Shahabad Mohammadpur R/S to Bijwasan R/S	Outside IV Consideration zone			00

Shakurbasti-Hazrat Nizamuddin Ring Railway section

1	Patel Nagar R/S to Brar Square R/S	Out of Parallelism			00
2	Brar Square R/S to Delhi Safdarjung R/S	Outside IV Consideration zone			00
3	Delhi Safdarjung R/S to Lodhi Colony R/S	Outside IV Consideration zone			00
4	Lodhi Colony R/S to Lajpat Nagar R/S	Outside IV Consideration zone			00

Delhi-Hazrat Nizamuddin section

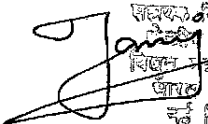
1	Delhi R/S to Sadar Bazar R/S	Out of Parallelism			00
2	Sadar Bazar R/S to New Delhi R/S	0.5	0.0001	8987	01
3	New Delhi R/S to Shivaji Bridge R/S	0.6	0.0001	8821	01
4	Shivaji Bridge R/S to Tilak Bridge R/S	Out of Parallelism			00
5	Tilak Bridge R/S to H. Nizamuddin R/S	Out of Parallelism			00

Delhi-Rohtak section

1	Delhi R/S to Delhi Kishan Ganj R/S	0.4	0.0001	8946	01
2	Delhi Kishan Ganj R/S to Daya Basti R/S	Out of Parallelism			00
3	Daya Basti R/S to Shakurbasti R/S	Out of Parallelism			00
4	Shakurbasti R/S to Nangloi R/S	Outside IV Consideration zone			00

Delhi-Sonipat section

1	Delhi R/S to Subzi Mandi R/S	0.5	0.0001	8813	01
2	Subzi Mandi R/S to Delhi Azadpur R/S	0.4	0.0001	8941	01
3	Delhi Azadpur R/S to Adarsh Nagar R/S	Outside IV Consideration zone			00
4	Adarsh Nagar R/S to Badli R/S	Outside IV Consideration zone			00


 Asst. Director-II/Asstt. Director-II
 विद्युत अधिकारी/C.E.A.
 विद्युत विभाग/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66