



**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.: DL-25
PTCC proposal of 220 kV D/C 1X1000 sq.mm. U/G XLPE cable for LILO of 220 kV D/C U/G XLPE cable (1000 sq.mm.) from Ridge Valley to AIIMS substation at 220 kV R.K. Puram substation (4.907 km)

Reference:		
S. No.	Reference No.	Dated
(i)	DTL: F.DTL/210/DGM(P-II)A/2020-21/Opr. (Proj)/F-40/141	28.01.2021
(ii)	BSNL: DET/PTCC/ND/DV-9868/ND-228/2020-21	30.03.2021
(iii)	Northern Railway: 342-SIG/1/PTCC/2020-21/03/15	16.03.2021
(iv)	Defense: B/46937/Sigs 7(b)/2341	17.03.2021

The PTCC proposal submitted vide reference (i) has been examined. The low frequency induction on BSNL cables and block & telecom circuits of Northern Railway as per details furnished vide reference (ii) and (iii) respectively has been examined. Voltages likely to be induced on paralleling BSNL cables 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. Vide ref. (iv) above, Defense have conveyed No Objection Certificate (a copy enclosed as Annexure-III).

Taking above into consideration, take necessary action for issuance of PTCC route approval.

**Encl.:** As above.

Signature Not Verified  
 Digitally signed by RAGHENDRA PRATAP SINGH  
 Date: 2021.06.18 11:55:37 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.	
2.	AESTE, UTS	Northern Railway, Headquarters Office, Baroda House, New Delhi – 110001	Annexure -II only
2.	DGM (T) Proj-IIA	Delhi Transco Ltd, R-12, A Block, Shakti Deep Building, Jhandewalan Extn., New Delhi - 110055	Copy for information

File No.CEA-PS-17-11(11)/28/2021-PCD Division

Annexure - I

Case No. : DL-25  
 Name of the Power Line: 220 KV D/C 1 x 1000 Sq.mm U/G XLPE cable for LILO of 220 KV D/C U/G XLPE Cable from Ridge Valley AIIMS Substation at 220 KV R.K.Puram Substation.

Annexure I  
 Toposheet Scale : 1cm=500mts  
 Total Length : 4.907 Kms  
 S.R Value : 3000 Ohm-cm

Sl. No.	Name of Telecom Line	LOP in Kms	MC in Ohms	Fault Current (Amps)	IV in V
<b>BSNL</b>					
Reference No. DET/PTCC/ND/DV-9868/ND-228/20201-21 Dated:- 30.03.2021					
BSNL Details					
1	Crossing of DTL cable of MTNL cable at vivekanand Marg Near Passport office, Near Fire Office ( Crossing- Perpendicular) 26 Nos.				
2	Crossing of DTL cable of MTNL cable at vivekanand Marg Near Passport office, Near Fire Office ( Crossing- Perpendicular) 03 Nos				
3	Crossing of DTL cable of MTNL cable at vivekanand Marg Near Passport office, Near Fire Office ( Crossing- Perpendicular) One No				
4	East Block Near MTNL Pillar BCP 264 ( Crossing- Perpendicular) One No.				IV less than 430 V
5	East Block Near MTNL Pillar BCP 264 ( Crossing- Perpendicular) One No.				
6	East Block Near MTNL Pillar BCP 264 ( Crossing- Perpendicular) One No				
7	Crossing of DTL Cable near Hundai Showroom Africa Avenue Marg( Crossing- Perpendicular) 22 Nos.				
8	Crossing of DTL Cable near Hundai Showroom Africa Avenue Marg( Crossing- Perpendicular) 02 Nos.				
9	1.5 Mtr apart DTL Cable running along with MTNL PIJF Cable at Africa Avenue Marg				

*Prateek*

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
 सहायक निदेशक / Asstt. Director-II  
 केन्द्रीय विद्युत आयोग / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Government of India  
 नई दिल्ली / New Delhi

## ANNEXURE - II

No.: DL-25

the Power Line: 220 kV D/C 1X1000 sq.mm.  
XLPE cable for LILO of 220 kV D/C U/G XLPE  
cable (1000 sq.mm.) from Ridge Valley to AIIMS  
substation at 220 kV R.K. Puram substation

Map Scale : 1 cm = 500 m.  
Route Length : 4.907 km  
Soil Resistivity : 3,000 Ohm-cm

S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
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NORTHERN RAILWAY								
Ref. No: 342-SIG/1/PTCC/2020-21/03/15 dated 16.03.2021								
Affected Blocks & Telecom Circuits Details								
S.No.	Block Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)			
1	Patel Nagar R/S to Delhi Cantt R/S	OUTSIDE IV CONSIDERATION ZONE			0			
2	Delhi Cantt R/S to Palam R/S				0			
3	Palam R/S to Shahabad Mohammadpur R/S				0			
4	Shahabad Mohammadpur R/S to Bijwasan R/S				0			
5	Patel Nagar R/S to Brar Square R/S				OUT OF PARALLELISM	0		
6	Brar Square R/S to Delhi Safdarjung R/S					0		
7	Delhi Safdarjung R/S to Lodhi Colony R/S				OUTSIDE IV CONSIDERATION ZONE			0
8	Lodhi Colony R/S to Lajpat Nagar R/S							0

*Prateek*

मौलिक प्रदीप/PRATEEK SRINASTAVA  
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