

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-28: 1257-259
PTCC proposal for 220 kV U/G cables from UPPTCL's Grid Substations to NCRTC's Receiving Substations in Delhi-Ghaziabad-Meerut RRTS Corridor of NCRTC:
a) Morti Ghaziabad/Sahibabad S/S to Ghaziabad/Sahibabad (5.2 km)
b) Murad Nagar II S/S to Murad Nagar (1.05 km)
c) Shatabdi Nagar S/S to Shatabdi Nagar (1.5 km)
d) Modipuram S/S to Modipuram (2 km)

Reference:		
S. No.	Reference No.	Dated
(i)	National Capital Region Transport Corporation: NCRTC/CO/Elect/PTCC/158/459	15.11.2021
(ii)	BSNL: DET/PTCC/ND/DV-10009/UP-1016/2021-2022	28.12.2021
(iii)	Northern Railway: 342-SIG/1/PTCC/2021-22/11/02	25.11.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2670	10.01.2022

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 reference (ii) and reference (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.

अधीकृत प्रमुख निदेश
13.04.22
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.	AGM/Electrical & Traction	NCRTC; Gati Shakti Bhawan, INA, New Delhi-110023.	Copy for information



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अमृत महोत्सव

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के.वि.प्रा. केस सं. : DL-28: 1257-259
पी.टी.सी.सी. प्रस्ताव 220 kV U/G cables from UPPTCL's Grid Substations to NCRTC's Receiving Substations in Delhi-Ghaziabad-Meerut RRTS Corridor of NCRTC: a) Morti Ghaziabad/Sahibabad S/S to Ghaziabad/Sahibabad (5.2 km) b) Murad Nagar II S/S to Murad Nagar (1.05 km) c) Shatabdi Nagar S/S to Shatabdi Nagar (1.5 km) d) Modipuram S/S to Modipuram (2 km)

क्रमांक	सन्दर्भ सं.	दिनांक
(i)	National Capital Region Transport Corporation: NCRTC/CO/Elect/PTCC/158/459	15.11.2021
(ii)	BSNL: DET/PTCC/ND/DV-10009/UP-1016/2021-2022	28.12.2021
(iii)	Northern Railway: 342-SIG/1/PTCC/2021-22/11/02	25.11.2021
(iv)	Defense: B/46937/ Sigs 7(b)/2670	10.01.2022

संदर्भ (i) द्वारा प्रस्तुत पीटीसीसी प्रस्ताव की जांच की गई है। उपरोक्त संदर्भ (ii) और संदर्भ (iii) के माध्यम से प्रस्तुत विवरण के संबंध में बीएसएनएल और उत्तर रेलवे के ब्लॉक और दूरसंचार सर्किट के दूरसंचार केबलों पर एलएफ प्रेरण की गणना की गई है। सिंगल लाइन टू ग्राउंड फॉल्ट की स्थिति के तहत समानांतर बीएसएनएल के टेलीकॉम केबल और उत्तर रेलवे के ब्लॉक और टेलीकॉम सर्किट पर संभावित प्रेरित वोल्टेज क्रमशः अनुलग्नक -I और अनुलग्नक -II में संलग्न हैं। स्क्रीनिंग कारकों पर विचार कर लिया गया है। रक्षा प्राधिकरण ने प्रस्तावित विद्युत लाइन के लिए उपरोक्त संदर्भ (iv) के माध्यम से अनापति प्रमाण पत्र प्रदान किया है।

उपरोक्त को ध्यान में रखते हुए, पीटीसीसी मार्ग अनुमोदन जारी करने के लिए आवश्यक कार्रवाई की जाए।

संलग्न: उपरोक्त अनुसार

शांतिप्रसाद प्रताप सिंह
निदेशक 13.04.22

To,

1.	Divisional Engineer (PTCC), Northern Zone	BSNL O/o PGM (N), QA & Inspection Circle, D-Tax Building, Eastern Court, Janpath, New Delhi 110001.	अनुलग्नक- I
2.	AESTE/UTS	Northern Railway; Head Quarter Office, Baroda House, New Delhi-110001.	अनुलग्नक- II
3.	AGM/Electrical & Traction	NCRTC; Gati Shakti Bhawan, INA, New Delhi-110023.	जानकारी हेतु

Case No.: CEA : DL-28

Names of the Power Line: 220 KV cables from Grid Sub Stations to receiving Sub Stations in Delhi-Ghaziabad-Meerut RRTS Corridor of NCRTC

Annexure I

Toposheet Scale : 1cm=500mts

Total Length : ~~5.2~~ (5.2, 1.05, 1.5, 2) km

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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BSNL					
Reference No. DET/PTCC/ND/DV-10009/UP-1016/2021-22 Dated:- 28.12.2021					
BSNL Details					
1	Kaushambi TE to Vaishali (Sec 4, 5) 800 pairs, 200 pairs, 100 pairs, 50 pairs (1 KM)	} IV less than 430V			
2	Vaishali Sec 4, 5 to Bikanerwala Cabinet 200 pairs, 100 pairs, 50 pairs, 20 pairs (1.6 KM)				
3	Country INN to Rapid Coat 100 pairs, 50 pairs (1.1 KM)				
4	Sikri Kalan to Om Sweets 800 pairs, 200 pairs, 100 pairs, 50 pairs (6.4 KM)				
5	Muhiuddin Nagar Exchange to Brahmपुरi 800 pairs, 200 pairs, 100 pairs, 50 pairs (7.2KM)				
6	PNB Near nala to Modipuram 400 pirs, 200 pairs, 100 pairs, 50 pairs (3.5KM)				

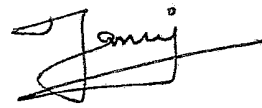
तनुज/TANUJ
सहायक निदेशक-II/Asstt. Director-II
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-66

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ANNEXURE-II

CEA Case No.: DL-28 Name of the Power line: 220 kV U/G cables from UPPTCL's Grid Substations to NCRTC's Receiving Substations in Delhi-Ghaziabad-Meerut RRTS Corridor of NCRTC: a) Morti Ghaziabad/Sahibabad S/S to Ghaziabad/Sahibabad (5.2 km) b) Murad Nagar II S/S to Murad Nagar (1.05 km) c) Shatabdi Nagar S/S to Shatabdi Nagar (1.5 km) d) Modipuram S/S to Modipuram (2 km)		Map Scale : 1 cm=500 m S.R. Value : 5,000 Ω-em			
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/2021-22/11/02		Dated: 25.11.2021			
Affected Blocks & Telecom Circuits Details					
<u>Palwal- Nizamuddin section</u>					
1	Tughlakabad R/S to Okhla R/S	Outside IV Consideration Zone			00
2	Okhla R/S to Nizamuddin R/S	Outside IV Consideration Zone			00
3	Nizamuddin R/S to Tilak Bridge R/S	Outside IV Consideration Zone			00
<u>Nizamuddin – Ghaziabad section</u>					
1	Nizamuddin R/S to Anand Vihar R/S	Outside IV Consideration Zone			00
2	Anand Vihar R/S to Sahibabad R/S	3.6	0.0004	9880	04
3	Sahibabad R/S to Ghaziabad R/S	Out of Parallelism			00
<u>Ghaziabad-Saharanpur section</u>					
1	Ghaziabad R/S to Naya Ghaziabad R/S	Out of Parallelism			00
2	Naya Ghaziabad R/S to Guldhar R/S	Out of Parallelism			00
3	Guldhar R/S to Muradnagar R/S	Out of Parallelism			00
4	Muradnagar R/S to Modinagar R/S	0.5	0.0003	9987	03
5	Modinagar R/S to Muhiuddin Pur R/S	Out of Parallelism			00
6	Muhiuddin Pur R/S to Partapur R/S	Out of Parallelism			00
7	Partapur R/S to Meerut City R/S	2.1	0.0005	9763	05
8	Meerut City R/S to Meerut Cantt. R/S	Out of Parallelism			00
9	Meerut Cantt. R/S to Pabli Khas R/S	1.2	0.0003	9872	03
10	Pabli Khas R/S to Daurala R/S	1	0.0004	9880	04
11	Daurala R/S to Shakoti Tanda R/S	Outside IV Consideration Zone			00
12	Shakoti Tanda R/S to Khatauli R/S	Outside IV Consideration Zone			00
<u>Meerut City-Hapur section</u>					
1	Meerut City R/S to Kharkhauda R/S	0.8	0.0001	8992	01



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