



सत्यमेव जयते

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

CEA Case No. : UP-629		
Induced Voltage (IV) calculation for PTCC proposal of 220 kV underground D/C Indirapuram – Sector-62 Noida Transmission Line [Length- 1.6 km]– Regd.		
S. No	Reference No.	Dated
(i)	UPPTCL: 1875/ETD-II/Noida/220undergroundcable	21.08.2023
(ii)	UPPTCL: e-Mail	19.03.2025
(iii)	BSNL: DET/PTCC/NZ/BSNL-TD/DV-10487/UP-1224/2024-25	12.03.2025
(iv)	North Central Railway: NCR/S&T/2074/Telecom/PTCC(Part-2)	09.11.2023
(v)	Defense: B/46937/Sigs7(b)/3496	17.11.2023

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on Block and Telecom circuits of BSNL & North Central Railway with respect to details furnished vide above reference (iii) & (iv) has been computed. The voltage likely to be induced on paralleling Block and Telecom circuits of BSNL & North Central Railway under Single Line to Ground fault condition are enclosed at Annexure-I & Annexure-II respectively. The screening factors as applicable have been considered. DG Signals, MoD has issued No Objection Certificate (NOC) vide reference (v).

Taking above into consideration, necessary action for issuance of PTCC route approval (RAC) shall be taken under intimation to this office in the stipulated period as specified in PTCC Manual and subsequent CLPTCC meetings

Chief Engineer

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)	North Central Railway Gorakhpur	
3.	Executive Engineer UPPTCL	220 kV S/s Sector-20 UPPTCL Noida	Copy for information.

ANNEXURE-I

CEA Case No.: UP-629			Map Scale : 1 cm= 500 m		
Name of the Power line: 220 kV Underground D/C Indirapuram – Sector-62 Noida Transmission Line.			Total Length : 1.6 km		
			S.R. Value : 5000 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: DET/PTCC/NZ/BSNL-TD/DV-10487/UP-1224/2024-25

Dated 12.03.2025

Affected Blocks & Telecom Circuits Details

1.	B 28/62 to B Block	IV Less than 430 V
2.	B 28/62 to Vinayak	
3.	B 28/62 to Sandar Vihar	
4.	B 28/62 to Tot, Mall	
5.	B 28/62 to Yarrows	
6.	B 28/62 to JSS C Block	
7.	B 28/62 to A Block	
8.	B 28/62 to BHEL	
9.	B 28/62 to BHEL	
10.	B 28/62 to Telecom City	
11.	B 28/62 to BOM	
12.	B 28/62 to UP Roadways	
13.	B 28/62 to B Block Market	
14.	B 28/62 to NIB/62	
15.	B 28/62 to open school	
16.	Sec-58 to B Block	
17.	Sec-58 to E1/55	
18.	Sec-58 to Sec 56	
19.	Sec-58 to C 28/55	
20.	Sec-58 to Sec 57	

21.	Sec-58 to Sec 58	IV Less than 430 V
22.	Sec-58 to Satabdi	
23.	Sec-58 to Sec 60	
24.	Sec-58 to Prasannath	
25.	Sec-58 to Royal tower	
26.	C/195/63 to G 42/63	
27.	C/195/63 to A 466/63	
28.	C/195/63 to A-2/65	
29.	C/195/63 to Police Choki	
30.	C/195/63 to E228/63	
31.	A180/63 to A-82/63	
32.	A180/63 to A108/63	
33.	A180/63 to A211/63	
34.	A180/63 to H 154	
35.	C195/63 to B1 A/64	
36.	Sec-71 to A Block	
37.	Sec-71 to Janta Flat	
38.	Sec-71 to B Block	
39.	Sec-71 to Sim office	
40.	Sec-71 to Jagasti office	
41.	Sec-71 to Metro office	
42.	Sec-53 to Arawali	
43.	Sec-53 to Sec 62	
44.	Sec-53 to Kanchargene	
45.	Sec-53 to Stabdi/61	
46.	Sec-53 to Royal Tower	
47.	Sec-53 to Mansarowar	
48.	Sec-53 to Paravnath	

ANNEXURE-II

CEA Case No.: UP-629			Map Scale : 1 cm= 500 m		
Name of the Power line: 220 kV Underground D/C Indirapuram – Sector-62 Noida Transmission Line.			Total Length : 1.6 km		
			S.R. Value : 5000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
North Central Railway: NCR/S&T/2074/Telecom/PTCC(Part-2)			Dated 09.11.2023		
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Maripat R/s to Chipiyana Buzurg R/s	1.0	0.0001	16500	17