

I/26507/2023



सत्यमेव जयते



ONE EARTH - ONE FAMILY - ONE FUTURE

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. : MRA-1209		
PTCC approval for 220 kV LILO with underground cable on 220 kV Kalwa-Baggaon transmission line at 220 kV GIS Substation of M/s Gigaplex Estate Pvt Ltd. (1.0 km) – Regd.		
S. No	Reference No.	Dated
(i)	Gigaplex Estate Pvt. Ltd. Letter	10.10.2022
(ii)	BSNL: IC/MBI/PTCC/MRA-2574/02	16.01.2023
(iii)	Central Railway: N.153/PTCC/220kV/MAH-826	28.12.2022
(iv)	Defense: B/46937/Sigs 7(b)/3080	02.02.2023

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on communication circuits of BSNL and Central Railway with respect to details furnished vide above reference (ii) & (iii) respectively have been computed. The voltages likely to be induced on paralleling communication cables of BSNL and Central Railway under Single Line to Ground fault conditions are enclosed at Annexure-I & II respectively. The screening factors as applicable have been considered.

EPR Zones for proposed substation are mentioned below.

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current, I (kA)	Resistance of earth mat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
220 kV GIS Gigaplex Substation	42.2	50	0.041	159	91	NA	NA

As per the Telecom Details submitted by BSNL vide above reference (ii), no telephone exchange of BSNL/MTNL is falling within the EPR zone of proposed 220 kV GIS Gigaplex Substation.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Western Zone	QA & Inspection circle, 1 st floor, D- wing, BSNL Admin Bldg., Junu Tara Road, Santacruz (West), Mumbai-400054	With a request to ensure proper marking/ naming of cables emanating
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I/26507/2023

			from exchange on topo map for future MTNL related cases
2.	GM (S&T)	Central Railway, Office of PCSTE, 3 rd floor, Annex building, CSMT Mumbai – 400 001	
3.	Vice President	Gigaplex Estate Pvt. Ltd., Raheja Tower, Plot No. C-30, Block 'G', Bandra Kurla Complex, Bandra (East), Mumbai – 400 051	Copy for information

I/26507/2023

ANNEXURE-I

CEA Case No.: MRA-1209		Map Scale : 1 cm= 500 m			
Name of the Power line: 220 kV LILO with underground cable on 220 kV Kalwa-Bapgaon transmission line at 220 kV GIS Substation of M/s Gigaplex Estate Pvt Ltd.		Total Length : 1.0 km		S.R. Value : 7500 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: IC/MBI/PTCC/MRA-2574/02 Date: 16.01.2023					
A	Airoli Telephone Exchange				
1	A – A1	Out of parallelism			
2	A – A2	Out of parallelism			
3	A – A3	Out of parallelism			
4	A – A4	Out of parallelism			
B	Rabale Telephone Exchange				
1	B – B1	Out of parallelism			
2	B – B2	0.4	0.00119	31080	38
3	B – B3	Out of parallelism			
4	B – B4	Out of parallelism			
5	B – B5	Out of parallelism			
C	Kausa Telephone Exchange				
1	C- C1	Out of parallelism			

I/26507/2023

2	C – C2	Out of parallelism			
C	Mumbra Telephone Exchange				
1	D – D1	0.4	0.00012	31080	4
E	Diva Telephone Exchange				
1	E – E1	Out of parallelism			
F	Riwardwool Telephone Exchange				
1	F – F1	Out of parallelism			
2	F – F2	Out of parallelism			
G	Koper Khairane Telephone Exchange				
H	Maupe Telephone Exchange				
I	E L Zone Telephone Exchange				
J	Kalwa Telephone Exchange				
K	Balkum Telephone Exchange				
L	Sahyog Telephone Exchange				
M	Vasant Vihar Telephone Exchange				
N	Charai Telephone Exchange				
O	Pachi Pahadi Telephone Exchange				
P	Laxmany Telephone Exchange				
Q	Wagle Telephone Exchange				
R	Govind Udyan Telephone Exchange				
S	Mulund Telephone Exchange				

I/26507/2023

T	Manisha Telephone Exchange	All cables are out of parallelism
U	Koperi Telephone Exchange	All cables are out of parallelism
V	Bhandup BTM Telephone Exchange	All cables are out of parallelism
W	API Drend Telephone Exchange	All cables are out of parallelism

I/26507/2023

ANNEXURE-II

CEA Case No.: MRA-1209 Name of the Power line: 220 kV LILO with underground cable on 220 kV Kalwa-Bapgaon transmission line at 220 kV GIS Substation of M/s Gigaplex Estate Pvt Ltd.			Map Scale : 1 cm= 500 m Total Length : 1.0 km S.R. Value : 7500 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
Central Railway: N.153/PTCC/220kV/MAH-826 Date: 28.12.2022					
1	Vikhroli to Kopar	0.4	0.000041	31080	1.3
2	Thane to Turbhe	0.4	0.00042	31080	13
3	Divja Nilje	Out of parallelism			

I/26507/2023

Tele : 23019746

Directorate General of Signals
Signals 7
General Staff Branch
Integrated HQ of MoD (Army)
DHQ PO, New Delhi - 110011


B/46937/Sigs 7(b)/3080/

02 Feb 2023

Gigaplex Estate Private Limited
Regd. Off.: Raheja Tower, Plot No. C-30,
Block 'G', Bandra Kurla Complex,
Bandra (E), Mumbai-400 051

**PTCC PROPOSAL FOR 220KV LILO LINE ON 220KV KALWA-BAPAGAON LINE
BETWEEN CTT TOWER NO 1 (GIGAPLEX PREMISES) AND CTT TOWER NO 2
(AKP PREMISES) AT M/S GIGAPLEX ESTATE PVT LTD 220KV GIS S/S WITH
UNDERGROUND CABLE VILLAGE-AIROLI, DIST THANE LENGTH=1KM**

1. Refer your letter dt 10 Oct 2022 (copy att).
2. **No Objection Certificate (NOC) is accorded** based on inputs provided as per Map sheets received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.


(SP Choyal)
Lt Col
GSO 1 (Coord)
for Offg ADG T

Enclosures : As above

Copy to :-

✓ The Director (PTCC), CEA
Power Communication Development Division
NRPC Complex, 18-A Shaheed Jeet Singh Marg
Katwaria Sarai, New Delhi – 110016

The DET(PTCC), Northern Zone
Bharat Sanchar Nigam Limited
O/o PGM (North), QA & Inspection Circle,
D-Tax Building, Eastern Court, Janpath
New Delhi-110001

- for information



