



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.: TNG-105 :	16.09.2021
PTCC proposal for LILO of 220 kV Gachibowli to Shapur Nagar transmission line at proposed 400/220/132 kV Rayadurg GIS: 4.575 km	

Reference:		
S. No.	Reference No.	Dated
(i)	TSTRANSCO:CE/400kV/SE-II/400kV/D1-A4/F.e-EHVT-01/18/D.No. 728/20	15.10.2020
(ii)	BSNL: SR-PTCC/STS-2865/05	28.07.2021
(iii)	South Central Railway: SG.85/4/3/PTCC/SCRTS202115 RTD	31.03.2021
(iv)	Defense: B/46937/Sigs 7(b)/2279	10.02.2021

The PTCC proposal submitted vide reference (i) has been examined. The low frequency induction on telecom cables of BSNL and Block & Telecom circuits of South Central 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 BSNL and Block & Telecom circuits of South Central 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 above reference (iv), Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annexure-III).

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken.

Encl.: As above.

Signature Not Verified
 Digitally signed by RAGHUVENDRA PRATAP SINGH
 Date: 2021.09.16 17:25:31 IST

Director

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032.	Annexure-I & Annexure-III
2.	SSTE/TELE/HQ	SCR, Head Quarters Office, Signal & Telcomm Branch, Rail Nilayam, Secunderabad-500025.	Annexure-II
3.	Chief Engineer/400 kV	TSTRANSCO, Vidyut Soudha, Hyderabad-500082.	Copy for information

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(Annexure - I)

Case No. STS 2865 TNG-105

SSA-HYDERABAD

Name of the power line: Erection of LILO of 220 KV Gachibowli - Shapurnagar Line to the Proposed 400/220/132 KV Rayadurg GIS for 4.575 Kms with XLPE UG Cable (1000 sqmm).

Length: 4.575 Kms

Average SR value: ~~280.41~~ ohm-mts Type of BSNL cable: PIJF

30000 2 cm

Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
I (A)	HYDGCB Exchange (Gachibowli)				
1	Exchange to Pillar 22 at Telecom Nagar (A-A1)				
2	Exchange to Pillar 37 at Police Comm Office (A-A2)				
3	Exchange to Pillar 38 at Jannardhan Hills (A-A3)				
4	Exchange to Pillar 23 at Gachibowli X Road (A-A4)				
5	Exchange to Pillar 25 at GPRA Campus (A-A5)				
6	Exchange to Pillar 29 at Opp IIT NR TCS Gate (A-A6)				
II (B)	HYDSRT Exchange (L&T Infocity)				
1	Exchange to Pillar 00 Inner Zone (B-B1)				
2	Exchange to Pillar 21 at Urdu University (B-B2)				
3	Exchange to Pillar 22 Opp SRT gate (B-B3)				
III (C)	HYDKEV Exchange (Kendriya Vihar)				
1	Exchange to Pillar 00 Inner Zone (C-C1)				
2	Exchange to Pillar 21 at NR Aditya DSR Gate (C-C2)				
3	Exchange to Pillar 22 at DLF Cyber 2 Gate (C-C3)				
IV (D)	HYDWTD Exchange (White Field)				
1	Exchange to Pillar 00 Inner Zone (D-D1)				
2	Exchange to Pillar 37 Opp Jaya Residency (D-D2)				
3	Exchange to Pillar 37A Opp Venkat Endave (D-D3)				
V (E)	HYDAPS Exchange (APSP)				
1	Exchange to Pillar 28 at Police Betallion Main Gate (E-E1)				
VI (F)	HYDMYP (Miyapur) Exchange				
1	Exchange to Pillar No HYDMYP23 beside Miyapur Bus stop (E-E1)				
2	Exchange to Pillar No HYDMYP28 Allwyn Colony entrance (E-E2)				
3	Exchange to Pillar No HYDMYP29 Allwyn Colony near Udipl (E-E3)				
4	Exchange to Pillar No HYDMYP30 Mythinagar kamaan (E-E4)				
5	Exchange to Pillar No HYDMYP31 BHEL HIG Entrance (E-E5)				
6	Exchange to Pillar No HYDMYP32 Madinaguda Main Road (E-E6)				
7	Exchange to Pillar No HYDMYP38 Pragati Encl Classic Avenue (E-E7)				
8	Exchange to Pillar No HYDMYP38A Friends colony Entrance (E-E8)				
9	Exchange to Pillar No HYDMYP39 Opp. Bliss Bakers, Mypr X Rds (E-E9)				
10	Exchange to Pillar No HYDMYP40 Near Sankranthi Hotel (E-E10)				
11	Exchange to Pillar No HYDMYP41 JPN Nagar Nr X-Rd (E-E11)				
12	Exchange to Pillar No HYDMYP42 JPN Nagar Main gate (E-E12)				
13	Exchange to Pillar No HYDMYP44 Mayuri Nagar (E-E13)				
14	Exchange to Pillar No HYDMYP45 BK Enclave (E-E14)				
15	Exchange to Pillar No HYDMYP46 Coco Cola X-Rds (E-E15)				
16	Exchange to Pillar No HYDMYP49 Kendriya Vihar (E-E16)				
17	Exchange to Pillar No HYDMYP50 SMR Metropolis Apts, Mypr (E-E17)				
18	Exchange to Pillar No HYDMYP56 Janapriya Apts Ph-V (E-E18)				
19	Exchange to Pillar No HYDMYP61 Hemadurga Towers BL-C (E-E19)				
20	Exchange to Pillar No HYDMYP62 Hemadurga Towers BL-C (E-E20)				

IV less than 430V

Jany

Handwritten notes and stamps at the bottom right of the table.

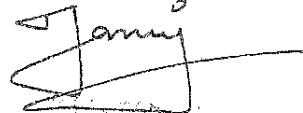
ANNEXURE -II

CEA Case No.: TNG-105 Name of the Power line: LILO of 220 kV Gachibowli to Shapurnagar transmission line at proposed 400/220/132 kV Rayadurg GIS.	Map Scale : 1 cm=500 m Total Length : 4.575 km Soil Resistivity : 30,000 ohm-cm
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S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms	Effective Fault current in Amps	LV in Volt
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South Central Railway letter no:- SG.85/4/3/PTCC/SCRSTS202115 RTD Dated :31.03.2021

S.No	Affected Blocks & Telecom Circuits Details				
1.	Telapur to Ramachandrapuram TS	Outside IV Consideration Zone			00
2	Telapur to Lingampalli	0.7	0.00001	8312	01
3	Lingampalli to Hafizpet	Out of Parallelism			00
4	Hafizpet to Santhnagar	1.9	0.00012	8678	01
5	Santhnagar to Hussain Sagar Jn.	Out of Parallelism			00
6	Santhnagar to Ammuguda	Out of Parallelism			00


 J. S. Jang
 Joint Secretary
 to the Secretary
 to the Government of India
 New Delhi-66

Tele : 23019746

(Annexure - III)
TNG-105

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

B/46937/Sigs 7(b)/2279

10 Feb 2021

Chief Engineer, (400kV)
TS TRANSCO
Transmission Corporation of Telangana Limited
Vidyut Soudha,
Hyderabad - 500 082

**ERECTION OF RAYADURG SYSTEM IMPROVEMENT SCHEME-SUPPLY,
ERECTION, TESTING AND COMMISSIONING OF 400/220/132KV GIS AT
RAYADURG AND CONNECTED NETWORK ON TURNKEY BASIS-LILO OF
220KV GACHIBOWLI-SHAPURNAGAR LINE TO PROPOSED 400/220/132KV
RAYADURG GIS WITH 220KV 1000SQMM XLPE UG CABLE FOR A LENGTH OF
4.575KMS-PTCC PROPOSALS-FORWARDED-REG.**

1. Refer your letter No Lr. No. CE/400kV/SE-II/400kV/D1-A4/F.e-EHVT-01/18/D.No. 728/20 dt 15 Oct 2020 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your above mentioned letter.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

(A Rawat)
Maj
GSO 1 (Comn)
for SO-in-C

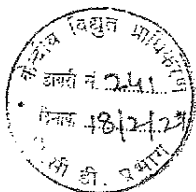
Enclosures : (As above)

Copy to :-

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

for information

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



for information
25/2
35/