



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.: TNG-102 :

PTCC proposal for LILO of 220 kV Gachibowli to Shivarampally transmission line at proposed 400/220/132 kV Rayadurg GIS with XLPE UG Cable (1000 Sqmm): 5.16 km

Reference:

S. No.	Reference No.	Dated
(i)	TSTRANSCO: CE/400kV/SE-II/400kV/D1-A4/F.e-EHVT-01/18/D.No. 729/20	15.10.2020
(ii)	BSNL: SR-PTCC/STS-2864/05	19.07.2021
(iii)	South Central Railway: SG.85/4/3/PTCC/SCRSTS202105 RTD	27.01.2021
(iv)	Defense: B/46937/Sigs 7(b)/2274	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.

Validity unknown

Digitally signed by RAGHUVENDRA PRATAP SINGH
Date: 2021.11.25 11:30:22 IST

Director

M/C

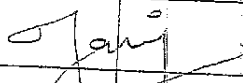
To,

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

TNG-102

(Annexure-I)

Case No. STS 2864		SSA: HYDERABAD			
Name of the power line: PTCC Proposal for Erection of LILO of 220 KV Gachibowli - Shivarampally Line to the Proposed 400/220/132 KV Rayadurg GIS - 5.16 kMts with XLPE UG Cable (1000 Sq.mm).					
Length:		5.16 Kms			
Average SR value: 240-254 ohm -ms		Type of BSNL cable: PIJF			
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
30000 mm					
I GCB (A)	GACHIBOWLI EXCHANGE UG CABLES				
1	Exge to Pillar.22 at Telecom Nagar (A-A1)				
2	Exge to Pillar.37 at Police Comm.Office (A-A2)				
3	Exge to Pillar.38 at Jannardhan Hills (A-A3)				
4	Exge to Pillar.23 at Gachibowli X Road (A-A4)				
5	Exge to Pillar.25 at GPRA Campus (A-A5)				
6	Exge to Pillar.29 at Opp IIT NR TCS Gate (A-A6)				
II ISB (B)	INDIAN SCHOOL OF BUSINESS EXCHANGE UG CABLES				
1	Exge to Pillar.00 at Inner Zone (B-B1)				IV less than 430V
III INT (C)	INFOTECH EXCHANGE UG CABLES				
1	Exge to Pillar.00 at Inner Zone (C-C1)				
2	Exge to Pillar.21 at Infotech X Road (C-C2)				
IV HRS (D)	HILL RIDGE SPRINGS EXCHANGE UG CABLES				
1	Exge to Pillar.21 at Hill Ridge Springs (D-D1)				
2	Exge to Pillar.22 at Hill Ridge Villa (D-D2)				
V SRT (E)	L & T INFOTECH EXCHANGE UG CABLES				
1	Exge to Pillar.00 at Inner Zone (E-E1)				
2	Exge to Pillar.21 at Urdu University(E-E2)				
3	Exge to Pillar.22 at Opp.SRT Gate(E-E3)				
VI MIC (F)	MICROSOFT EXCHANGE UG CABLES				
1	Exge to Pillar.00 at Inner Zone (F-F1)				
VII HCU(G)	HYDERABAD CENTRAL UNIVERSITY EXCHANGE UG CABLES				
1	Exge to Pillar.23,23A & 29 at Gulmohar Park (G-G1)				
2	Exge to Pillar.22 at Doyans Colony (G-G2)				
3	Exge to Pillar 28 at CBI P O D. G. C. S.				


 ANUJ
 सहायक निदेशक-II/Asstt. Director-II

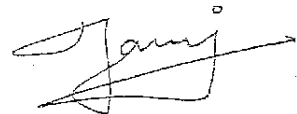
4	Exge to Pillar.21 & 24 at HCU Main Gate (G-G4)				
5	Exge to Pillar.25 near HCU Second Gate (G-G5)				
VIII MJB (H)	MASJIDBANDA EXCHANGE UG CABLES				
1	Exge to Pillar.00 at Inner Zone (H-H1)				
2	Exge to Pillar.34 at MLA House (H-H2)				
3	Exge to Pillar.35 at Grave Yard (H-H3)				
IX GOL (I)	GOLCONDA EXCHANGE UG CABLES				
1	Exge to Pillar.31 at Salarjung Colony (I-I1)	IV less than 430V			
2	Exge to Pillar.75 at Santosh Nagar (I-I2)				
3	Exge to Pillar.47 at New Archeological Museum Golconda (I-I3)				
4	Exge to Pillar.55 at VBG Gardens Gudimalkapur (I-I4)				
X TLC (J)	TOWLICHOWKI EXCHANGE UG CABLES				
1	Exge to Pillar.29 at Shaikpet (J-J1)				
2	Exge to Pillar.28 at OU Colony (J-J2)				
3	Exge to Pillar.44 at Tombs Road (J-J3)				
4	Exge to Pillar.33 at Whishper Vally (J-J4)				
XI DRV (K)	DREAMVALLY EXCHANGE UG CABLES				
1	Exge to Pillar.49 at Friends Colony (K-K1)				
2	Exge to Pillar.51 at Bheemas Hotel (K-K2)				
3	Exge to Pillar.0 at Dreamvally (K-K3)				
XII ALC (L)	ARTILARY CENTRE EXCHANGE UG CABLES				
1	Exge to Pillar.0 at Artilary Centre (L-L1)				
2	Exge to Pillar.46 at Battery command (L-L2)				

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

ANNEXURE -II

CEA Case No.: TNG-102					
Name of the Power line: LILO of 220 kV Gachibowli to Shivarampally transmission line at proposed 400/220/132 kV Rayadurg GIS with XLPE UG Cable (1000 Sqmm).		Map Scale : 1 cm=500 m Total Length : 5.16 km Soil Resistivity : 30,000 ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms	Effective Fault current in Amps	IV in Volt

South Central Railway letter no:- SG.85/4/3/PTCC/SCRTS202105 RTD Dated :27.01.2021					
Affected Blocks & Telecom Circuits Details					
S.No.	Affected Blocks & Telecom Circuits Details				
1.	Hyderabad to Hussain Sagar Junction	Outside IV Consideration Zone			00
2	Hussain Sagar Junction to Sanathnagar	Out of Parallelism			00
3	Sanathnagar to Hafizpet	1.1	0.0004	9229	04
4	Hafizpet to Lingampalli	2.1	0.0001	9897	01
5	Lingampalli to Tellapur	Outside IV Consideration Zone			00
6	Sanathnagar to Ammuguda	Out of Parallelism			00



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

Tele : 23019746

TNG-102
(Annexure - III)

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

10 Feb 2021

B/46937/Sigs 7(b)/2274

Chief Engineer, (400KV)
TSTRANSCO
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-SHIVARAMPALLY LINE TO PROPOSED 400/220/132KV
RAYADURG GIS WITH 220KV 1000SQMM XLPE UG CABLE FOR A LENGTH OF
5.15KMS-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. 729/20 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.

ah
(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
Katwaria Sarai, New Delhi - 110016

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

for information