



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-109

PTCC proposal of 220 kV LILO line to proposed Mentrajpally SS from one of the circuit of under construction 220 kV D/C line from 400/220 kV Dichpally SS to 220/11 kV Manchippa SS in Nizamabad district (1.75 km)

Reference:

S. No.	Reference No.	Dated
(i)	TSTRANSCO: CE(LIS)/SE(LI)/DE1(LI)/ADE4/ PTCC/220 kV Metrajpally/D.No. 228/2021	26.04.2021
(ii)	BSNL: SR-PTCC/STS 3227/04	02.06.2021
(iii)	South Central Railway: SG.85/4/3/PTCC/SCRTS202127 RTD	26.07.2021
(iv)	Defense: B/46937/Sigs 7(b)/2422	30.06.2021

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on telecom lines of BSNL and block & telecom circuits of South Central Railway with respect to details furnished vide above reference (ii) and (iii) respectively, has been computed. The voltages likely to be induced on paralleling telecom lines 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. The Defense Authority have accorded NOC vide above reference (iv) for the proposed power line (a copy enclosed as Annexure-III).

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

Signature Not Verified

Digitally signed by RAGHUVENDRA PRATAP SINGH
Date: 2021.12.31 12:32:13 IST

Encl.: As above.

Director

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	GM(S&T)	South Central Railway, Head Quarters Office, Signal & Telecom Branch, Rail Nilayam, Secunderabad - 500025	Annex-II only
3.	Chief Engineer (LIS)	TSTRANSCO, Vidyut Soudha, Hyderabad 500082	Copy for information

CFA Case No: TNA-109

Annex-I

Case No. STS 3227		SSA: NIZAMABAD			
Name of the power line: PTCC Proposal for Erection of 220 KV LILO Line to the Proposed Mentrajpalli Sub-Station from one of the circuits of under Construction 220 KV DC Line from 400/220 KV Dichpally SS to 220/11 KV Manchippa SS in Nizamabad district.					
Length:		1.75 Kms			
SR value: 5000 ohm-ms		Type of BSNL cable: PUJF			
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
I A					
DICHPALLY MBM EXCHANGE UG CABLES					
1	Exge to Telangana University Mini Pillar (A-A1)				
2	Exge to Railway Station Pillar (A-A2)				
3	Exge to Islamapura Pillar (A-A3)				
4	Exge to Police camp R1 Quarters Pillar (A-A4)				
5	Exge to Police Camp R1 (A-A5)				
II B					
DHARMAVARAM RBM EXCHANGE UG CABLES					
1	Exge to Mentrajpalli Road Pillar (B-B1)				
2	Exge to Bus Stand Pillar (B-B2)				
3	Exge to Old Post Office Main Road Pillar (B-B3)				
4	Exge to Bandipur Gate Pillar (B-B4)				

IV less than 430 V

Prateek

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA
 सहायक निदेशक-II / Asst. Director-II
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

CEA Case No.: TNG-109

ANNEXURE - II

Name of the Power Line: 220 kV LILO line to proposed Mentrappally SS from one of the circuit of under construction 220 kV D/C line from 400/220 kV Dichpally SS to 220/11 kV Manchippa SS in Nizamabad district

Map Scale : 1 cm = 500 m.
Route Length : 1.75 km
Soil Resistivity : 15,000 Ohm-cm

S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
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SOUTH CENTRAL RAILWAY

SG.85/4/3/PTCC/SCRTS202127 RTD dated 26.07.2021

Affected Blocks & Telecom Circuits Details

S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)
1	Indalvai (IDL) - Dichpalli (DHP)				0
2	Dichpalli (DHP) - Nizamabad (NZB)	1.7	0.0003	10000	3

Prateek

प्रवीण श्रीवास्तव / PRATEEK SRIVASTAVA
सहायक निदेशक-II / Asst. Director-II
बीमतीन विद्युत प्राधिकरण / C.E.A.
शक्ति मंत्रालय / Ministry of Power
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi

Tele : 23019746

LNQ-109
Directorate General of Signals
Signals - 7
General Staff Branch
Integrated HQ of MoD, (Army)
DHQ PO, New Delhi - 110011

Annex-1

B/46937/Sigs 7(b)/2422

Chief Engineer, Construction
Transmission Corporation of Telangana Limited
Vidyut Soudha,
Hyderabad - 500 082

20 Jun 2021

**EXTENSION OF POWER SUPPLY TO MENTRAJPALLY PUMP HOUSE BY
ERECTION OF (I) 220/11KV SUB-STATION AT MENTRAJPALLY AND (II) 220KV
LILLO LINE (2KM) TO PROPOSED MENTRAJPALLY FROM ONE OF THE
CIRCUIT OF UNDER CONSTRUCTION 220KV DC LINE FROM 400/220KV SS
DICHPALLY TO 220/11KV MANCHIPPA SS IN NIZAMABAD DIST. PTCC
PROPOSALS-FORWARDED-REG.**

1. Refer your letter No Lr.No. CE(LIS)/SE(LI)/DE1(LI)/ADE4/PTCC/220KV Mentrajpally/D.No. 228/2021 dt 26 Apr 2021 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

ab
(A Rawat)
Lt Col
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/b PGM (North), QA & Inspection Circle,
D/Tax Building, Eastern Court, Janpath
New Delhi-110001.

for information

at 2.25
note of 185
11.10.21

17/9/21
12/10

783

13-9-21