



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युतसंचार विकास प्रभाग

Power Communication Development Division

No.: CEA/PCD/PTCC/TNG-83/671-73

Date: 09.11.2020

Subject: PTCC proposal for 220 kV DC line from existing 400/220 kV SS Dichpally to proposed 220/11 kV LIS SS at Manchippa -regd.

Ref.: (i) TSTRANSCO Ref no ED(LIS)/SE(LI)/DE1(LI)/ADE4/PTCC/220kV Manchippa /D.No. 429/2019 dated 28.05.2019
(ii) BSNL Ref. no. SR-PTCC/STS/2478/04 dated 27.07.2019
(iii) South Central Railway Ref. no. SG.85/4/3/PTCC/SCRITS201940 RTD dated 31.05.2019 received in this office via TSTRANSCO Ref. No. CE(LIS)/SE(LI)/DE1(LI)/ADE4/F.Manchippa-PTCC/D.No. 541/2020 dated 04.09.2020
(iv) Defense Ref. no. B/46937/Sigs 7(b)/1599 dated 24.06.2019

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on telecom cables of BSNL and block & telecom circuits of South Central Railway, as per details furnished vide ref. (ii) and (iii) respectively, has been examined. The Soil Resistivity value has been taken as 20,000 Ohms-cm. 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 Annex-I and II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above.

34-3-21
09.11.20
(Upendra Kumar)
Chief Engineer

MIC

To,
The Divisional Engineer (PTCC), Southern Zone,
Bharat Sanchar Nigam Limited (BSNL),
O/o DET (PTCC), Inspection Circle,
1st Floor, Raj Bhavan Exchange,
No. 26, Sardar Patel Road, Guindy, Chennai-600032

Copy to:

1. GM(S&T), South Central Railway, Headquarters Office. Signal & Telecomm Branch, Rail Nilayam, Secunderabad – 500025 (with Annex-II)
2. Chief Engineer, Lift Irrigation Schemes, TSTRANSCO, Vidyut Soudha, Hyderabad – 500082

TNG-83

Case No. SRPTCC/SAP/2478		SSA : Nizamabad				
Scale: 1 : 50000						
Name of Power line: 220 KV DC Line from 400/220 KV Dichpally SS to 220/11 KV Manchippa SS in Nizamabad Dist - LF comments .						
Length: 24.09 KMs						
Average SR value : 20000 D-cm						Type of Cable: PIJF
No	Name of telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	Safe Separation Distance
A	Dichpally Exchange	}	IV	less	than	430 V
A1	Exchange to Telangana University Mini Pillar					
A2	Exchange to Railway station Pillar					
A3	Exchange to Islampura Pillar					
A4	Exchange to Police Camp Pillar					
B	Dharamarm RBM Exchange					
B1	Exchange to Bardipur Gate					
B2	Exchange to Bus Stand					
B3	Exchange to Mentrajpalli Road Pillar					
C	Mopal Exchange					
1	Exchange to C1					
2	Exchange to C2					
<p><i>Diakew</i></p> <p>प्रदेशीय अभियंता / Assistant Engineer सहायक अभियंता / Asst. Director-II केन्द्रीय विद्युत प्राधिकरण / C.E.A. विद्युत विभाग / Ministry of Power भारत सरकार / Govt. of India नई दिल्ली / New Delhi</p>						

ANNEXURE - II

Case No.: TNG-83 Name of the Power line: 220 kV DC line from existing 400/220 kV SS Dichpally to proposed 220/11 kV LIS SS at Manchippa		Map Scale : 1cm=500mts Total Length : 24.09 Km. Soil Resistivity : 20000 ohm-cm			
S.N	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

South Central Railway letter no. SG.85/4/3/PTCC/SCRSTS201940 RTD dated 31.05.2019					
1	Sirnappalli (SCP) – Indalvai (IDL)	OUTSIDE IV CALCULATION CONSIDERATION ZONE			0
2	Indalvai (IDL) – Dichpalli (DHP)	3.2	0.0009	8100	7
3	Dichpalli (DHP) – Nizamabad (NZB)	5.1	0.0102	6800	69
4	Nizamabad (NZB) – Jankampet (JKM)	OUTSIDE IV CALCULATION CONSIDERATION ZONE			0

Prateek

प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA
 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

Annex-III TNG-83

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)/1599

24 Jun 2019

Executive Director,
Lift Irrigation Schemes,
Transmission Corporation of Telangana Limited
TSTRANSCO
Vidyut Soudha,
Hyderabad - 500 082

**ERECTION OF 220KV DC LINE FROM 400/220KV DICHPALLY SUB-STATION TO 220/11KV
MANCHIPPA SUBSTATION IN NIZAMABAD DISTRICT-PTCC PROPOSALS-FORWARDED-
REGARDING**

1. Ref your letter No Lr. No. ED(LIS)/SE(LI)/DE1(LI)/ADE4/PTCC/220KV Manchippa/D.No. 336/2019 dt 23 Apr 2019 (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
Katwaria Sarai, New Delhi - 110016

for information.