



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत संचार विकास प्रभाग

Power Communication Development Division

No.: CEA/PCD/PTCC/TNG-85/668-70

Date: 09.11.2020

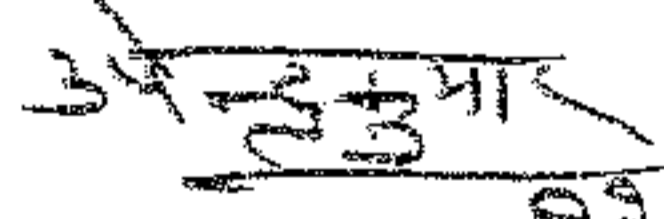
Subject: PTCC proposal for 220 kV Single Moose DC line to proposed 220/11 kV SS Sarangapur Pump House from 400/220 kV Dichpally SS-regd.

Ref.: (i) TSTRANSCO Ref. no. ED(LIS)/SE(LI)/DE1(LI)/ADE4/PTCC/220kV Sarangapur/D.No. 376/2019 dated 09.05.2019
(ii) BSNL Ref. no. SR-PTCC/STS/2498/03 dated 29.07.2019
(iii) South Central Railway Ref. no. SG.85/4/3/PTCC/SCRSTS201837 RTD dated 30.05.2019 received in this office via TSTRANSCO Ref. No. CE(LIS)/SE(LI)/DE1(LI)/ADE4/F.Sarangapur-PTCC/D.No. /2020 dated 04.09.2020
(iv) Defense Ref. no. B/46937/Sigs 7(b)/1654 dated 22.07.2019

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 50,000 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.


(Upendra Kumar) 09.11.2020
Chief Engineer

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. Executive Director, Lift Irrigation Schemes, TSTRANSCO, Vidyut Soudha, Hyderabad – 500082

CEA Case No. : TNG-85

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 Sarangapur SS in Nizamabad Dist - LF comments .						
Length: 36.65 KMs				Type of Cable: PIJF		
Average SR value : 50000 Ω-cm						
No	Name of telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts	Safe Separation Distance
A	Dichpally Exchange	}				
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	Makdoor Exchange					
1	Exchange to Madhapur					
2	Exchange to Shanthinager					
3	Exchange to Durganagar					
E	Sarangapur Exchange					
1	Exchange to Nehrunagar					
2	Exchange to School					
3	Exchange to Petrol Pump					
				Prateek		
				प्रतीक शर्मा/PRATEEK SHARMA 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		

IV less than 430V

ANNEXURE - II

Case No.: TNG-85

Name of the Power line: 220 kV Single Moose DC line to proposed 220/11 kV SS Sarangapur Pump House from 400/220 kV Dichpally SS

Map Scale : 1cm=500mts

Total Length : 36.65 Km.

Soil Resistivity : 50000 ohm-cm

S.No	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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South Central Railway letter no. SG.85/4/3/PTCC/SCRTS201837 RTD dated 30.05.2019					
1	Indalvai (IDL) – Dichpalli (DHP)	1.3	0.0001	9100	1
2	Dichpalli (DHP) – Nizamabad (NZB)	11.4	0.0036	7200	26
3	Nizamabad (NZB) – Jankampet (JKM)	5.9	0.0018	8800	16
4	Jankampet (JKM) – Navipet (NVT)	5.4	0.0132	9000	102
5	Navipet (NVT) – Basar (BSX)	0.7	0.0001	9000	1
6	Jankampet (JKM) – Bodhan (BDHN)	7.7	0.0178	9000	160

Prateek

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

Annex-III

TNA-85

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)/1654.

22 Jul 2019

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

**ERECTION OF 220KV DC LINE (36.65KM) FROM 400/220KV DICHPALLY SUB-STATION TO
220/11KV SARANGAPUR SUBSTATION IN NIZAMABAD DISTRICT-PTCC PROPOSALS-
FORWARDED-REGARDING**

1. Ref your letter No Lr. No. ED(LIS)/SE(LI)/DE1(LI)/ADE4/PTCC/220kV Sarangpur/D.No. 376/2019 dt 09 May 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.

Sh. Prakash
AP
8/8

