



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-59 / 545-47

Date: 17.09.2020

Subject: PTCC proposal 220 kV DC line from 400/220 kV SS Dichpally to proposed up-gradation of 220/132 kV SS Banswada in Nizamabad District.-regd.

- | | | |
|-------------|--|-------------------|
| Ref. | 1. TSTRANSCO Ref. No. CPT-310/SE/Const/F.220KV Banswada
SS/PTCC/D.No.656/2018 | Dated: 07.05.2018 |
| | 2. BSNL Ref. No. SR-PTCC/STS/2124/03 | Dated: 16.01.2020 |
| | 3. South Central Railway Ref. No. SG.85/4/3/PTCC/SCRSTS201833 RTD | Dated: 31.05.2018 |
| | 4. Defense Ref. No. B/46937/Sigs 7(b)/1136 | Dated: 19.07.2018 |

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on BSNL cables as per details furnished vide ref. (ii) has been examined. The Soil Resistivity value has been taken as 40,000 Ohms-cm. Voltages likely to be induced on paralleling BSNL cables under single line to ground fault condition are enclosed at Annex-I. The screening factors as applicable have been considered. Vide ref. (iii) above; South Central Railway has intimated that the Railway line does not exist within 8 km vicinity of the proposed power line. Therefore, IV calculation is not required for South Central Railway. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-II).

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

Encl.: As above.

(Upendra Kumar)
Chief Engineer

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

MIC

Contd.

(Annex-I)

Case No. SRPTCC/STS-2124		SSA : Nizamabad				
Scale: 1 : 50000						
Name of Power line: :- 220 KV DC Line from 400/220 KV SS Dichpally to proposed upgradation of 220/132 KV SS Banswada in Nizamabad Dist						
Length: 82.956 Kms						
Average SR value : 40,000 ohm						
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	}			IV less than 430V	
A2	Exchange to Railway Station Pillar					
A3	Exchange to Islampura Pillar					
A4	Exchange to Police Camp Pillar					
B Dharamaram RBM Exchange						
B1	Exchange to Bardipur Gate Pillar	}			IV less than 430V	
B2	Exchange to Bus Stand Pillar					
B3	Exchange to Mentraipalli					
Yedapally Exchange						
2	Exchange to Old Bus stand	}			IV less than 430V	
3	Exchange to Syndicate Bank					
4	Exchange to Veerabdra Temple					
5	Exchange to RTC Request Stop					
6	Exchange to Primary Health Centre					
6A	Exchange to Primary Health Centre					
7	Exchange to Primary Health Centre					
8	Exchange to Yedapally Village					
9	Exchange to Yedapally Village					
10	Exchange to Magalpahad x Road					
11	Exchange to Urdu School					
12	Exchange to Urdu School					
13	Exchange to Petrol Bunk					
14	Exchange to Magalpahad bus stand					
Rudur Exchange						
1	Exchange to Pillar 21	}			IV less than 430V	
3	Exchange to Pillar 22					
5	Exchange to Pillar 23					
8	Exchange to Pillar 24					
Kotagiri Exchange						
1	Exchange to P 21	}			IV less than 430V	
4	Exchange to P 22					
6	Exchange to P 23					
8	Exchange to P 24					

Handwritten notes and stamps at the bottom of the page, including a circular stamp with text in Telugu and English.

Name of the Power line: 220 kV DC line from 400/220 kV SS Dichpally to proposed up-gradation of 220/132 kV SS Banswada in Nizamabad District.

Map Scale : 1 cm=500 mts
Total Length : 82.956 km
Soil Resistivity : 40,000 ohm-cm

S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	LV in Volts.
-------	------------------	------------------------------	--------------------------	----------------------------------	--------------

South Central Railway letter no:- SG.85/4/3/PTCC/SCRSTS201833 RTD dated 31.05.2018

S.No.	Affected Blocks & Telecom Circuits Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	LV in Volts.
1.	Indalvai(IDL)-Dichpalli(DHP)	0.5	0.0007	9880	7
2.	Dichpalli(DHP)-Nizamabad(NZB)	12.4	0.0051	8192	42
3.	Nizamabad(NZB)-Jankampet(JKM)	0.8	0.0002	7921	2
4.	Jankampet(JKM)-Navipet(NVT)	2.2	0.0077	6506	50
5.	Navipet(NVT)-Basar(BSX)	0.6	0.0002	5964	1
6.	Jankampet(JKM)-Bodhan(BDHN)	15.9	0.0219	5217	114
7.	Nizamabad(NZB)-Mamidipalli	5.4	0.0082	8756	72
8.	Mamidipalli-Armoor	1	0.0003	8863	3

THE / TANK
DIRECTOR / ASST. DIRECTOR
TELECOMS / CEA
MINISTRY OF POWER
GOVT. OF INDIA

Tele : 23019746

Annex-III

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

B/46937/Sigs 7(b)/1136 /

10 Jul 2018

The Chief Engineer,
Construction,
Vidyut Soudha,
Hyderabad - 500082

**ERECTION OF 220 KV DC LINE (82.956KM) FROM 400/220 KV SS
DICHPALLY TO PROPOSED UP- GRADATION OF 220/132 KV SS
BANSWADA IN NIZAMABADDISTRICT ON TURNKEY BASIS**

1. Reference your letter Lr.No.CPT-310/SE/Const/F.220KV Banswada SS /PTCC/D.No.656/2018, dt 07 May 2018.
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheet received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

(Handwritten Signature)

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

Copy to :-

Central Electricity Authority
Power Communication Development Division
NRPC Complex, 18-A, Shaheed Jeet Singh S Marg
Katwaria Sarai, New Delhi - 110016

- For information.