



**भारत सरकार**  
**Government of India**  
**विद्युत मंत्रालय**  
**Ministry of Power**  
**केन्द्रीय विद्युत प्राधिकरण**  
**Central Electricity Authority**  
**विद्युत संचार विकास प्रभाग**  
**Power Communication Development Division**

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CEA Case No. : TNG-128		
PTCC approval for 400 kV D/C line from 765/400 kV Warangal (New) SS to existing 400 kV Warangal (PGCIL).- regd.		
S. No	Reference No.	Dated
(i)	WKTL Letter No. WKTL/HYD/2021/138	30.10.2021
(ii)	WKTL E-mail	28.12.2022
(iii)	BSNL Letter No. SR-PTCC/STS 0035/11	22.11.2022
(iv)	South Central Railway Letter No. SG.85/4/3/PTCC/SCR/2022-23/TS-16 RTD	27.07.2022
(v)	Defense Letter No. B/46937/Sigs 7(b)/2662	10.01.2022

The PTCC proposal submitted vide above reference (i) and (ii) has been examined. The LF induction on communication circuits of BSNL and South Central Railway with respect to details furnished vide above reference (iii) and (iv) have been computed. The voltages likely to be induced on paralleling communication circuits of BSNL and 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.

DG Signals, MoD vide above reference (v) has issued No Objection Certificate (NoC).

EPR zone for the proposed substation is mentioned below:

Name of proposed substation	Half diagonal distance, D/2 (mts)	Fault Current I (kA)	Resistance of earth mat, R (ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
765/400 kV Warangal (New)	261.7	35	0.0738	1310	778	NA	NA

As per the Telecom Details submitted by BSNL vide above reference (iii), **No Telephone exchange of BSNL** is coming in the EPR zone of proposed 765/400 kV Warangal (New) substation. As there are no assets of BSNL in EPR zone and no protection is recommended, necessary instructions related to "Deemed Energization Approval" shall be stated in the RAC in compliance with the decision taken in 111<sup>th</sup> CLPTCC meeting.

I/25655/2023

Taking above into consideration, necessary action regarding issuance of provisional PTCC approval for the subject cited transmission line may be taken under intimation to this office.

Encl.: As above

Digitally Signed by Upendra  
Kumar

Date: 11-01-2023 15:23:42

Reason: Approved

**Chief Engineer**

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	General Manager (S&T)	Office of Principal Chief Signal & Telecom Engineer, 7 <sup>th</sup> floor, rail Nilayam, Secunderabad - 500025	Annexure-II
3.	M/s WKTL	Adani Corporate House, Shantigram, S G Highway, Ahmedabad, 382-421, Gujarat	For information

**ANNEXURE-I**

CEA Case No.: TNG-128		Map Scale : 1 cm= 500 m			
Name of the Power line: 400 kV D/C line from 765/400 kV Warangal (New) SS to existing 400 kV Warangal (PGCIL).		Total Length : 48 km			
		S.R. Value : 25000 Ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
BSNL Letter No. SR-PTCC/STS 0035/11 Dated 22.11.2022					
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
I (E)	<b>Ghanpur Telephone Exchange</b>				
1	Exchange to Ghanpur Local (E-E1)	Out of parallelism			
2	Exchange to Ghanpur Bus Stand (E-E2)	Out of parallelism			
II (B)	<b>Wardhannapet Telephone Exchange</b>				
1	Exchange to Wardhannapet Bus Stand (B-B1)	1.7	0.001	23598	26
2	Exchange to Ellanda Road (B-B2)	0.4	0.00031	24850	8
III A	<b>Sangem Telephone Exchange</b>				
1	Exchange to Sangem local (A-A1)	0.7	0.0009	27831	25
2	Exchange to Parvathagiri Road (A-A2)	0.75	0.00089	27241	24
IV D	<b>Shivanagar Telephone Exchange</b>				
1	Exchange to Pallavi Hospital (D-D1)	0.5	0.0003	33715	10
2	Exchange to Income Tax (D-D2)	0.75	0.00051	33725	18
V K	<b>Kasibugga Telephone Exchange</b>				
1	Exchange to Tilak Road (K-K1)	1.1	0.00066	34400	23
2	Exchange to IG Statute (K-K2)	Out of parallelism			
VI W	<b>Warangal Telephone Exchange</b>				



2	Exchange to LB Nagar (W-W2)	Out of parallelism
3	Exchange to Srinivas Colony (W-W3)	Out of parallelism
4	Exchange to Shanti Nagar (W-W4)	Out of parallelism
5	Exchange to Charbouli (W-W5)	Out of parallelism

**ANNEXURE-II**

<b>CEA Case No.:</b> TNG-128 <b>Name of the Power line:</b> 400 kV D/C line from 765/400 kV Warangal (New) SS to existing 400 kV Warangal (PGCIL).			<b>Map Scale</b> : 1 cm= 500 m <b>Total Length</b> : 48 km <b>S.R. Value</b> : 25000 Ohm-cm		
S.No.	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/SCR/2022-23/TS-16 RTD Dated 27.07.2022					
<b><u>Affected Blocks &amp; Telecom Circuits Details</u></b>					
1	Ippaguda RS to Ghanpur RS		Outside IV consideration zone		
2	Ghanpur RS to Nashkal RS		Outside IV consideration zone		
3	Nashkal RS to Pindial RS		Outside IV consideration zone		
4	Pindial RS to Kazipet RS		Outside IV consideration zone		
5	Kazipet RS to Warangal RS		Outside IV consideration zone		
6	Warangal RS to Chintalpalli RS	5.25	0.0156	26090	407
7	Chintalpalli RS to Yelgur RS	3.55	0.00086	29363	25