

I/27855/2023



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

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CEA Case No. : KNK-1016		
PTCC approval for 220 kV S/C line on D/C tower from existing 220 kV Kudligi S/s to proposed 220/6.6 kV S/s of M/s Resource Pellets Construction Pvt. Ltd. (27.9 km)- regd.		
S. No	Reference No.	Dated
(i)	KPTCL: CEE/SLDC/PTCC/F-3477/6403-11	04.11.2022
(ii)	KPTCL E-mail	19.04.2023
(iii)	BSNL: SR-PTCC/SKT/4519	10.01.2023
(iv)	South Western Railway: SG/SWR/PTCC/F-3477/2448	30.12.2022
(v)	Defense: B/46937/Sigs 7(b)/3105	03.01.2023

The PTCC proposal submitted vide reference (i) & (ii) has been examined. The LF induction on communication circuits of BSNL and South Western Railway with respect to details furnished vide above references (iii) and (iv) respectively have been computed. The voltage likely to be induced on paralleling communication cables of BSNL and South Western 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. Vide reference (v) above, DG Signals, MoD has issued No Objection Certificate (NOC) (enclosed as Annexure-III).

EPR Zones for proposed substations are mentioned below.

Name of the proposed SS	Half Diagonal Distance, D/2 (mts)	Fault Current, I (kA)	Resistance of earthmat, R (Ohms)	d (mts) at 430 V	d (mts) at 650 V	d (mts) at 7 kV	d (mts) at 10 kV
220 kV RPCPL S/s, Somalapura	67.7	23.4	0.85	3064	2004	125	67

As per the details submitted by BSNL vide reference (iii) above, no telephone exchange is falling in the EPR zone of the proposed substations.

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken under intimation to this office.

Encl.: As above

Chief Engineer

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**To,**

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle,1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	Principal Chief Signal & Telecom Engineer	South Western Railway, Rail Soudha, Gadag road, Hubballi - 20	
3.	Chief Engineer, Electricity	KPTCL, State Load Despatch Centre, #28, R.C. Cross Road, Bangalore - 560009	Copy for information

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ANNEXURE-I

CEA Case No.: <b>KNK-1016</b>		Map Scale : 1 cm= 500 m			
Name of the Power line: 220 kV S/C line on D/C tower from existing 220 kV Kudligi S/s to proposed 220/6.6 kV S/s of M/s Resource Pellets Construction Pvt. Ltd		Total Length : 27.9 km			
		S.R. Value : 30000 Ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
<b>BSNL Letter No: SR-PTCC/SKT/4519 Date: 10.01.2023</b>					
<b>I (A)</b>	<b>Sandhur Telephone Exchange</b>				
1	Exchange to Lakshmipura road (A-A1)				Out of parallelism
2	Exchange to Market route (A-A2)				Out of parallelism
3	Exchange to Krishna Nagar route (A-A3)				Out of parallelism
4	Exchange to Davilpura route (A-A4)				Out of parallelism
5	Exchange to Tempak route (A-A5)				Out of parallelism
6	Exchange to Dharmaripuri route (A-A6)				Out of parallelism
<b>II (B)</b>	<b>Yaswanthnagar Telephone Exchange</b>				
1	Exchange to Sandhur route (B-B1)				Out of parallelism
2	Exchange to Yaswanthnagar RS (B-B2)				Out of parallelism
3	Exchange to Somalpara (B-B3)				Out of parallelism
<b>III (C)</b>	<b>Nandhihalli Telephone Exchange</b>				
1	Exchange to P. G. Center (C-C1)				Out of parallelism
2	Exchange to Boys Hostel (C-C2)				Out of parallelism
3	Exchange to New Qutress (C-C3)				Out of parallelism
<b>IV (D)</b>	<b>Chornuru Telephone Exchange</b>				
1	Exchange to Gollarahatti route (D-D1)				Out of parallelism
2	Exchange to Market route (D-D2)				Out of parallelism
3	Exchange to Primary Health care (D-D3)				Out of parallelism
4	Exchange to Upparhalli route (D-D4)				Out of parallelism
<b>V (E)</b>	<b>Bandri Telephone Exchange</b>				
1	Exchange to P.G.B. bank (E-E1)				IV less than 430 V
<b>VI (K)</b>	<b>Kudlagi Telephone Exchange</b>				

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1	Exchange to Govind Giri route (K-K1)	IV less than 430 V			
2	Exchange to Ambedkar circle (K-K2)	IV less than 430 V			
3	Exchange to Bandi Basapura (K-K2-K3)	IV less than 430 V			
4	Exchange to Market route (K-K4)	IV less than 430 V			
5	Exchange to Bommanhalli route (K-K2-K5)	1.8	0.01171	15371	180

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ANNEXURE-II

<b>CEA Case No.: KNK-1016</b> <b>Name of the Power line:</b> 220 kV S/C line on D/C tower from existing 220 kV Kudligi S/s to proposed 220/6.6 kV S/s of M/s Resource Pellets Construction Pvt. Ltd			<b>Map Scale</b> : 1 cm= 500 m <b>Total Length</b> : 27.9 km <b>S.R. Value</b> : 30000 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
<b>South Western Railway: SG/SWR/PTCC/F-3477/2448 Date: 30.12.2022</b>					
1	Ramgad (RMGD) to Yeshwantnagar (YTG)	Out of parallelism			
2	Yeshwantnagar (YTG) to Swamihalli (SMLI)	3.8	0.0249	15743	392

I/27855/2023 Tele : 23019746

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

KNK-1016

B/46937/Sigs 7(b)/3105/

03 Jan 2023

Office of the Chief Engineer Electricity,  
 Karnataka Power Transmission Corporation Limited  
 State Load Despatch Centre,  
 # 28, Race Course Cross Road,  
 Bengaluru - 560 009

**PTCC PROPOSAL FOR CONSTRUCTION OF 220KV SC LINE ON DC TOWER  
 FROM EXISTING 220/66/11KV KPTCL SS AT KUDLIGI IN BADELADHUKU  
 VILLAGE TO PROPOSED 220/6.6KV SS OF M/S RESOURCES PELLETS  
 CONSTRUCTION PVT LTD AT SOMALAPURA VILLAGE IN SANDHUR TALUK  
 BALLARI DISTRICT**

1. Refer your letter No CEE/SLDC/PTCC/F-3477/-6403-11 dt 04 Nov 2022 (copy att).
2. **No Objection Certificate (NOC) is accorded** based on inputs provided as per Map sheets received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

(SK Sharma)

(SK Sharma)  
 Lt Col  
 GSO 1 (Comn)  
 for Offg ADG T

**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

The DET(PTCC), Northern Zone  
 Bharat Sanchar Nigam Limited  
 O/o PGM (North), QA & Inspection Circle,  
 D-Tax Building, Eastern Court, Janpath  
 New Delhi-110001

AD - Pk Sharma & pm  
 UK  
 16/1/23

