

I/26377/2023



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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ONE EARTH - ONE FAMILY - ONE FUTURE

CEA Case No. : TN-714		
PTCC approval for LILO of 230 kV K.Paramathi – Alanthur line at Valayapatty 230 kV SS - regd.		
S. No	Reference No.	Dated
(i)	TANTRANSCO: 012910/SE/TRI/EE/TSM/AEE/F.PTCC	29.09.2022
(ii)	TANTRANSCO: 012910/SE/TRI/EE/TSM/AEE/F.PTCC/2023-2	18.02.2023
(iii)	BSNL: SR-PTCC/STN 4586/08	09.02.2023
(iv)	Southern Railway: W.384/3/2/1224	11.10.2022
(v)	Defense: B/46937/Sigs 7(b)/3046	15.11.2022

The PTCC proposal and details submitted vide reference (i) and (ii) have been examined. The LF induction on communication circuits of BSNL and Southern Railway with respect to details furnished vide above references (iii) and (iv) have been computed. The voltage likely to be induced on paralleling communication cables of BSNL and Southern Railway under Single Line to Ground fault condition are enclosed at Annexure-I & 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).

As all the three associated substations are existing substation, EPR verification for subject PTCC proposal is not required.

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**

**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)	Southern Railway, Head Quarters Office, S&T Branch, Chennai - 600003	
3.	Superintending Engineer/Transmission-I	TANTRANSCO, 5 <sup>th</sup> Floor, TANTRANSCO HQ, 144, Anna Salai, Chennai - 600002	Copy for information

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ANNEXURE-I

CEA Case No.: TN-714		Map Scale : 1 cm= 500 m			
Name of the Power line: LILO of 230 kV K.Paramathi – Alanthur line at Valayapatty 230 kV SS		Total Length : 29.84 km			
		S.R. Value : 20000 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/STN 4586/08 Date: 09.02.2023</b>					
<b>I U</b>	<b>Uppidamangalam Telephone Exchange</b>				
1	Exchange to P.21.Teacher'S Colony				
2	Exchange to P.22.Puliyur Town				
3	Exchange to P.23.Near Rani Meiyammai School				
4	Exchange to P.24.Uppidamangalam				
5	Exchange to P.25.Uppidamangalam				
6	Exchange to P.26.Veerarakiyam				
7	Exchange to P.27.Kattalai				
8	Exchange to Jagadhabi BTS	6.5	0.0229	7729	177
9	Exchange to Uppidamangalam Support BTS				
10	Exchange to Uppidamangalam BTS				
<b>II K</b>	<b>Krishnarajapuram Telephone Exchange</b>				
1	Exchange to P.26				
2	Exchange to P.22				
3	Exchange to P.21				
4	Exchange to P.24				
5	Exchange to P.25				
6	Exchange to P.23				
7	Exchange to Co-Located BTS				

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<b>III S</b>	<b>Sengal Telephone Exchange</b>				
1	Exchange to TRYSEL0001	0.9	0.0014	6429	9
2	Exchange to Co-Located BTS	IV LESS THAN 430 V			
<b>IV C</b>	<b>Pj Cholapuram Bts (Non Bsnl Bts Location)</b>	IV NOT CALCULATED			
<b>V M</b>	<b>Mayanur Bts (Non Bsnl Bts Location)</b>				
<b>VI KAT</b>	<b>Kattuputhur Telephone Exchange</b>				
1	Exchange to P.22	IV LESS THAN 430 V			
2	Exchange to P.24				
3	Exchange to P.25	1.0	0.0425	7176	305
4	Exchange to P.27	IV LESS THAN 430 V			
5	Exchange to P.28				
6	Exchange to P.29.UNIYUR				
7	Exchange to Co-Located BTS				
<b>VII E</b>	<b>Elurpatty Telephone Exchange</b>				
1	Exchange to Co-Located BTS	IV LESS THAN 430 V			
<b>VIII ME</b>	<b>Meikalnaikanpatty Telephone Exchange</b>				
1	Exchange to Co-Located BTS	IV LESS THAN 430 V			
<b>IX NN</b>	<b>Nagainllaur BTS (Non Bsnl BTS Location)</b>	IV NOT CALCULATED			
<b>X NA</b>	<b>Natham BTS (Non Bsnl BTS Location)</b>				
<b>XI T</b>	<b>Thotiyam Support BTS (Non Bsnl BTS)</b>				

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ANNEXURE-II

<b>CEA Case No.: TN-714</b> <b>Name of the Power line:</b> LILO of 230 kV K.Paramathi – Alanthur line at Valayapatty 230 kV SS			<b>Map Scale</b> : 1 cm= 500 m <b>Total Length</b> : 29.84 km <b>S.R. Value</b> : 20000 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>Southern Railway Letter No: W.384/3/2/1224 Date: 11.10.2022</b>					
1	Karur Jn - Virarakkiyam	1.0	0.0002	6614	1
2	Virarakkiyam - Mayanoor	4.4	0.0065	6923	45
3	Mayanoor - Mahadanapuram	1.95	0.0004	7418	3

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Tele : 23019746

Directorate General of Signals **TN-714**  
 Signals - 7  
 General Staff Branch  
 Integrated HQ of MoD, (Army)  
 DHQ PO, New Delhi - 110011

B/46937/Sigs 7(b)/3046

15 Nov 2022

Superintending Engineer/Transmission-I&  
 Secretary/Power, SLPTCC  
 Tamil Nadu Transmission Corporation  
 5<sup>th</sup> Floor, TANTRANSCO HQ  
 144, Anna Salai, Chennai-600 002

**PTCC ROUTE APPROVAL FOR THE ERECTION OF 230KV DC LINE ON DC  
 TOWERS WITH ZEBRA CONDUCTOR BY MAKING LILO OF 230KV  
 K.PARAMATHI-ALUNDUR AT PROPOSED VALAYAPATTY 230KV SS-REG**

1. Refer your letter No 012910/SE/TR-I/EE/TSM/AEE/F.PTCC/ dt 29 Sep 2022 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided as per Map sheet received vide your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

*Samyal*  
 (PS Samyal)  
~~Col~~  
 GSO 1 (Comm)  
 for Offg ADG T

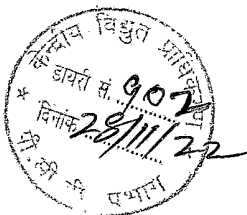
**Enclosures** : (As above)

**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



*Sh. Prateek*

*Pls. prepare scrutiny letter  
 & pr. 3/11/22*

*AD/PS  
 Pls. examine & pr  
 1/12/22*