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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

CEA Case No. : TN-718		
Induced Voltage (IV) calculation in respect of PTCC proposal for 400 kV D/C line from Udangudi Thermal Plant Switchyard to proposed Ottapidaram 400/230-110 kV SS (70.68 km) - regd.		
S. No	Reference No.	Dated
(i)	TANTRANSCO: 001088/SE/TR-I/EE/TSM/A1/F.PTCC/	01.02.2023
(ii)	TANTRANSCO: Email	04.11.2023
(iii)	BSNL: PTCC/STN4653/06	24.05.2023
(iv)	Southern Railway: W.384/3/2/1227	07.02.2023
(v)	Defense: B/46937/Sigs 7(b)/3211 received via TANTRANSCO email dated 20.10.2023	11.08.2023

The PTCC proposal and details submitted vide references (i) & (ii) has been examined. The LF induction on communication cables of BSNL and Southern Railway with respect to details furnished vide above references (iii) & (iv) respectively 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, Defense have issued No Objection Certificate (NOC) (enclosed at Annexure-III).

EPR zone for the proposed substation is mentioned below:

Name of the 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 7kV	d (mts) at 10kV
Ottapidaram 400/230-110 kV SS	303.95	18.872	0.045	563	177	NIL	NIL
Udangudi Thermal Plant Switchyard	132.8	45.072	0.045	493.65	281.62	NIL	NIL

As per the details submitted by BSNL, no telecom exchanges are existing within the EPR zone of 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

Director

To,

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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 th floor, TANTRANSCO HQ, 144, Anna Salai, Chennai - 600002	

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ANNEXURE-I

CEA Case No.: TN-718		Map Scale : 1 cm= 500 m			
Name of the Power line: 400 kV D/C line from Udangudi Thermal Plant Switchyard to proposed Ottapidaram 400/230-110 kV SS		Total Length : 70.68 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: PTCC/STN4653/06 Date: 24.05.2023					
KRC	KURUKKUCHALAI TELEPHONE EXCHANGE				
1	Exge to DP.0003	IV less than 430 V			
2	Exge to P.21 to DP. 2107				
3	Exge to P.41 to DP.410031				
OTP	OTTAPIDARAM TELEPHONE EXCHANGE				
1	Exge to P.21 TO DP.2102B	IV less than 430 V			
2	Exge to P.21 to DP.2103A				
3	Exge to P.21 to DP.2105B				
4	Exge to P.21 to DP.2107				
5	Exge to P.21 to DP.2108				
6	Exge to P.21 to DP.2113				
7	EXGE to P.22 to DP.2201				
8	EXGE to P.22 to DP.2202				
9	EXGE to P.22 to DP.2209				
10	EXGE to P.22 to DP.2210				
11	Exge to P.31 to DP.3106				
12	Exge to P.31 to DP.3106B				
13	Exge to P.41 to DP.4101A				

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14	Exge to P.41 to DP.4103	IV less than 430 V			
15	Exge to P.41 to DP.4111				
16	Exge to P.41 to DP.4135				
17	Exge to P.41 to DP.4139				
18	Exge to P.41 to DP.4152				
PUA	PUTHIAPUTHUR TELEPHONE EXCHANGE				
1	Exge to DP 0001	IV less than 430 V			
2	Ex e to DP 002B				
3	Exge to DP 007B				
4	Exge to DP 0015				
5	Exge to P 23 to DP2301				
6	Exge to P.22 to DP.2205				
7	Exge to P.22 to DP.2206				
8	Exge to P.22 to DP.2207				
9	Exge to P.31 to DP.3117				
10	Exge to P.31 to DP.3136				
11	Exge to P.31 to DP.3127				
12	Ex eto P.31 to DP.3128				
13	Exge to P.31 to DP.3107				
14	Exge to P.31 to DP.3133				
15	Exge to P.31 to DP.3132A				
16	Exge to P.21 to DP.2116				
17	Exge to P.21 to DP.2118				
18	Exge to P.21 to DP.2135				
IV TTS	SIPCOT TELEPHONE EXCHANGE				
1	Exge to P.22 to DP.2212	IV less than 430 V			

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2	Exge to P.23 to DP.2304	IV less than 430 V			
3	Exge to P.24 to DP.2401				
4	Exge to P.25 to DP.2526				
5	Exge to P.31 to DP.3105				
6	Exge to P.31 to DP.3103				
7	Exge to P.31 to DP.3101				
8	Exge to P.21 to DP.2135				
9	Exge to P.21 to DP.2119				
V TCH	TIRUCHENDUR TELEPHONE EXCHANGE				
1	Exge to P.21 to DP.2101	IV less than 430 V			
2	Exge to P.22 to DP.2201				
3	Exge to P.22 to DP.2202				
4	Exge to P.23 to DP.2301				
5	Exge to P.23 to DP.2302				
6	Exge to P. 24 to DP.2401				
7	Exge to P.24 to DP.2402				
8	Exge to P.24 to DP.2403				
9	Exge to P.24 to DP.2404				
10	Exge to P.25 to DP.2501				
11	Exge to P.25 to DP.2502				
12	Exge to P.25 to DP.2503				
13	Exge to P.25 to DP.2504				
14	Exge to P.26 to DP.2601				
15	Exge to P.26 to DP.2602				
16	Exge to P.26 to DP.2603				
17	Exge to P.31 to DP.3101				

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18	Exge to P.32 to DP.3201	IV less than 430 V							
19	Exge to P.32 to DP.3202								
20	Exge to P.32 to DP.3203								
21	Exge to P.33 to DP.3301								
22	Exge to P.36 to DP.3601								
23	Exge to P.43 to DP.4301								
24	Exge to P.43 to DP.4302								
25	Exge to P.43 to DP.4303								
26	Exge to P.45 to DP.4501								
27	Exge to P.45 to DP.4502								
28	Exge to P.45 to DP.4503								
V KYP	KAYALPATNAM TELEPHONE EXCHANGE								
1	Exge to P.21 to DP.2101					IV less than 430 V			
2	Exge to P.21 to DP.2102								
3	Exge to P.21 to DP.2103								
4	Fxge to P.21 to DP.2104								
5	Exge to P.21 to DP.2105								
6	Exge to P.21 to DP.2106								
7	Ex e to P.21 to DP.2107								
8	Exge to P.21 to DP.2108								
9	Exge to P.25 to DP.2501								
10	Exge to P.25 to DP.2502								
11	Exge to P.25 to DP.2503								
12	Exge to P.25 to DP.2504								
13	Exge to P.31 to DP.3101								
14	Exge to P.31 to DP.3102								

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15	Exge to P.31 to DP.3103	IV less than 430 V			
16	Exge to P.31 to DP.3104				
17	Exge to P.31 to DP.3105				
18	Exge to P.31 to DP.3106				
19	Exge to P.31 to DP.3107				
20	Exge to P.31 to DP.3108				
21	Exge to P.32 to DP.3201				
22	Exge to P.32 to DP.3202				
23	Exge to P.32 to DP.3203				
24	Exge to P.32 to DP.3204				
25	Exge to P.32 to DP.3205				
26	Exge to P.32 to DP.3206				
VI DCW	DCW TELEPHONE EXCHANGE				
1	Exge to IZ.01	IV less than 430 V			
2	Exge to IZ.02				
3	Exge to IZ.03				
Vil CHG	CHRISTIYANAGARAM TELEPHONE EXCHANGE				
1	Ex e to P.21 to DP.2101	2.1	0.0139	24920	346
2	Exge to P.21 to DP.2102	2.1	0.0139	24920	346
3	Ex e to P.21 to DP.2103	IV less than 430 V			
4	Ex e to P.21 to DP.2104	3.9	0.0769	24624	1894
5	Exge to P.22 to DP.2201	4.4	0.0825	24036	1983
6	Exge to P.22 to DP.2202	IV less than 430 V			
7	Exge to P.22 to DP.2203				
8	Exge to P.22 to DP.2204				

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9	Exge to P.22 to DP.2205	IV less than 430 V
10	Exge to P.22 to DP.2206	
11	Exge to P.22 to DP.2207	
12	Exge to P.23 TO DP.2301	
13	Exge to P.23 TO DP.2302	
14	Exge to P.23 TO DP.2303	
15	Ex eto P.31 TO DP.3101	
16	Exge to P.31 TO DP.3102	
17	Exge to P.31 TO DP.3103	
18	Exge to P.31 TO DP.3104	
19	Exge to P.31 to DP.3105	
20	Exge to P.31 to DP.3106	
21	Exge to P.31 to DP.3107	
22	Exge to P.31 to DP.3108	
23	Exge to P.31 to DP.3109	
24	Exge to P.32 to DP.3201	
25	Exge to P.31 to DP.3202	
26	Ex e to P.31 to DP.3203	
27	Exge to P.34 TO DP.3401	
28	Exge to P.34 TO DP.3402	
29	Exge to P.34 TO DP.3403	
30	Exge to P.34 TO DP.3404	
31	Exge to P.34 TO DP.3405	
32	Exge to P.36TO DP.3601	
33	Exge to P.36 TO DP.3602	
34	Exge to P.36TO DP.3603	

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35	Exge to P.36 TO DP.3604	IV less than 430 V			
36	Exge to P.36TO DP.3605				
Vill MPD	MANAPADU TELEPHONE EXCHANGE				
3	Exge to IZ.01	IV less than 430 V			
2	Exge to IZ.02				
3	Exge to IZ.03				
4	Exge to IZ.04				
IX PRC	PARAMANKURICHI TELEPHONE EXCHANGE				
1	Exge to IZ.01	IV less than 430 V			
2	Exge to IZ.02				
3	Ex e to IZ.03				
4	Exge to P.21 TO DP.2101				
5	Exge to P.21 to DP.2102				
6	Exge to P.22 to DP.2201				
7	Exge to P.22 to DP.2202				
8	Exge to P.22 TO DP.2203				
9	Exge to P.22 TO DP.2204				
10	ExgetoP.23 TO DP.2301				
11	Exge to P.23 to DP.2302				
12	Exge to P.24 TO DP.2401				
13	Exge to P.24TO DP.2402				
14	Exge to P.24 TO DP.2403				
15	Exge to P.25 to DP.2501				
16	Exge to P.25 TO DP.2502				
17	Exge to P.25 TO DP.2503				
18	Exge to P.25 to DP.2504				

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19	Exge to P.25TO DP.2505	IV less than 430 V			
X MEP	MEIGANAPURAM TELEPHONE EXCHANGE				
1	Exge to P.21 to DP.2101	IV less than 430 V			
2	Exge to P.21 TO DP.2102				
3	Exge to P.21 to DP.2103				
4	Exge to P.22 to DP.2201				
5	Exge to P.22 TO DP.2202				
6	Exge to P.23 TO DP.2301				
7	Exge to P.23 TO DP.2302				
8	Exge to P.23 TO DP.2303				
9	Exge to P.23TO DP.2304				
10	Exge to 2.23 TO DP.2305				
11	Exge to P.23 to DP.2306				
12	Exge to P.24 to DP.2401				
13	Exge to P.25 to DP.2501				
14	Exge to P.25 to DP.2502				
15	Exge to P.25 to DP.2503				
16	Exge to P.25 to DP.2504				
XI	PUDUKOTTAI TELEPHONE EXCHANGE				
1	Exge to P.21 to DP.06B	IV less than 430 V			
2	Exge to P.22 to DP.24				
3	Ex e to P.22 to OP. 25				
4	Exge to P.22 to DP. 29B				
5	Exge to P.22 to DP.31				
6	Exge to P.22 to DP.40				
7	Exge to P.22 to DP.30				

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8	Exge to P.22 to DP.34	IV less than 430 V			
9	Exge to P.22 to DP.35B				
10	Exge to P.22 to DP.30C				
11	Exge to P.22 to DP.28				
12	Exge to P,22 to DP.15				
13	Exge to P.22 to DP.21D				
14	Exge to P.22 to DP. 33				
XII SVM	SERVAIKARANMADAM TELEPHONE EXCHANGE				
1	Exge to DP.204	IV less than 430 V			
2	Exge to DP.402				
3	Exge to DP.17				
4	Exge to DP.401				
5	Exge to DP.107				
6	Exge to DP.102				
7	Exge to DP.012				
8	Exge to DP.108				
XIII SYM	SAWYERPURAM TELEPHONE EXCHANGE				
1	Exge to P.31 to DP.31	IV less than 430 V			
2	Exge to P.31 to DP.26				
3	Exge to P.31 to DP.35B				
4	Exge to P.31 to DP.33B				
5	Ex e to P.31 to DP.7B				
6	Exge to P.31 to DP.09B				
7	Exge to P.31 to DP.6A				
8	Exge to P.31 to DP.37				

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9	Exge to P.31 to DP.18	IV less than 430 V
10	Exge to P.31 to DP.16	
11	Exge to P.24 to DP.10	
12	Exge to P.24 to DP.14A	
13	Exge to P.24 to DP.18A	
14	Exge to P.24 to DP.26	
15	Exge to P.24 to DP.26A	
16	Exge to P.23 to DP.009	
17	Exge to P.23 to DP.26A	
18	Exge to P.23 to DP.16B	
19	Exge to P.23 to DP.16A	
20	Exge to P.23 to DP.5B	
21	Exge to P.23 to DP.24	
22	Exge to P.23 to DP.18	
23	Exge to P.21 to DP.19	
24	Ex eto P.21 to DP.5A	
25	Exge to P.21 to DP.15	
26	Exge to P.21 to DP.18	
27	Exge to P.21 to DP.41	
28	Exge to P.21 to DP.011	
29	Exge to P.21 to DP.50	
30	Exge to P.22 to DP.2A	
31	Exge to P.22 to DP.34	
32	Exge to P.22 to DP.05	
33	Ex e to P.22 to DP.23	
34	Exge to P.22 to DP.34A	

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XIV ERA	ERAL TELEPHONE EXCHANGE				
1	Exge to P.35 to DP.003	IV less than 430 V			
2	Exge to P.35 to DP.16E				
3	Exge to P.35 to DP.008				
4	Exge to P.35 to DP.6A	3.7	0.0258	24651	636
5	Exge to P.32 to DP.22	IV less than 430 V			
6	Exge to P.32 to DP.03				
7	Exge to P.32 to DP.05				
8	Exge to P.32 to DP.14A				
9	Exge to P.32 to DP.23				
10	Exge to P.32 to DP.33				
11	Exge to P.32 to DP.35				
12	Exge to P.24 to DP.38				
13	Exge to P.24 to DP.15				
14	Exge to P.24 to DP.5B				
15	Exge to P.24 to DP.5				
16	Exge to P.24 to DP.9				
17	Exge to P.24 to DP.12B				
18	Exge to P.24 to DP.008				
19	Exge to P.24 to DP.004				
20	Exge to P.21 to DP.30				
21	Exge to P.21 to DP.43B				
22	Exge to P.21 to DP.IO				
23	Exge to P.21 to DP.39				
24	Exge to P.21 to DP.II				
25	Exge to P.21 to DP.41				

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26	Exge to P.21 to DP.28B	IV less than 430 V			
27	Exge to P.21 to DP.26B				
28	Exge to P.21 to DP.6B				
29	Exge to P.21 to DP.14				
30	Exge to P.22 to DP.6				
31	Exge to P.22 to DP.41				
32	Exge to P.22 to DP.40				
33	Exge to P.22 to DP.3				
34	Exge to P.22 to DP.31				
35	Exge to P.22 to DP.7				
36	Exge to P.22 to DP.15				
37	Exge to P.22 to DP.01				
38	Exge to P.22 to DP.36				
39	Exge to P.23 to DP.41A				
40	Exge to P.23 to DP.44				
41	Exge to P.23 to DP.15				
42	Exge to P.23 to DP.16B				
43	Exge to P.23 to DP.18				
44	Exge to to DP.007				
45	Exge to to DP.39B				
46	Exge to to DP.13				
47	Exge to to DP.33A				
48	Exgeto to DP.008				
49	Exge to to DP. 005				
XV DLM	DEIVACHEYALPURAM TELEPHONE EXCHANGE				
1	Exge to P.21 to DP.003	IV less than 430 V			

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2	Exge to P.21 to DP.22	IV less than 430 V			
3	Exge to P.21 to DP.07				
4	Exge to P.21 to DP.17				
5	Exge to P.21 to DP.206				
6	Exge000 to P105				
XVI MVN	MUDIVAITHNENDAL TELEPHONE EXCHANGE				
1	Exge000 to DP310	IV less than 430 V			
2	Exge000 to DP403				
3	Exge000 to DP509				
4	Exge000 to DP410				
5	Exge000 to DP801				
6	Exge000 to DP510				
7	Exge000 to DP309				
8	Exge000 to DP808				
9	Exge000 to DP810				
10	Exge000 to DP701				
11	Exge000 to DP402				
12	Exge000 to DP307				
13	Exge000 to DP400				
14	Exge000 to DP401				
15	Exge000 to DP407				
16	Exge000 to DP501				
17	Exge000 to DP506				
18	Exge000 to DP601				
19	Exge000 to DP604				
20	Exge000 to DP690				

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21	Exge000 to DP707	IV less than 430 V			
22	Exge000 to DP802				
XVII PZL	PAZHAYAKAYAL TELEPHONE EXCHANGE				
1	Exge to P.24 to DP01	IV less than 430 V			
2	Exge to P.24 to DP014				
3	Exge to P.24 to DP07B				
4	Exge to P.24 to DP06A				
5	Exge to P.24 to DP014A				
6	Exge to P.24 to DP15				
7	P23 to DP018				
8	P23 to DP12				
9	PZL Exge to P25				
10	Exge to P.25 to DP15A				
11	Exge to P.25 to DP23				
12	Exge to P.25 to DP19A				
13	Exge to P.25 to DP25A				
14	Exge to P.25 to DP19B				
15	Exge000 to DP004				
16	Exge000 to DP018				
17	Exge000 to DP002				
18	Exge000 to DP10B				
19	Exge000 to DP12A				
20	Exge000 to DP003				
21	Exge000 to DP013b				
XVIII KUB	KURUMBUR TELEPHONE EXCHANGE				

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1	Exge to P21 to DP06	IV less than 430 V			
2	Exge to P21 to DP19				
3	Exge to P21 to DP21				
4	Exge to P21 to DP45				
5	Exge to P22 to DP18				
6	Exge to P.22 to DP. 22	0.8	0.0135	30963	419
7	Exge to P.22 to DP. 39	IV less than 430 V			
8	Exge to P.22 to DP.40				
9	Exge to P.31 to DP.35				
10	Ex eto P.31 to DP. 42				
11	Exge to P.32 to DP.13				
12	Exge to P.32 to DP.22				
13	Exge to P.32 to DP.24				
14	Exge to P.32 to DP.30				
15	Exge to P.32 to DP.43				
16	Exge to P.32 to DP.48				
XIX KMX	KANAM TELEPHONE EXCHANGE				
1	Exge to P.21 to DP.01	0.9	0.0179	34797	623
2	Exge to P.21 to DP.04	0.9	0.0183	34797	637
3	Exge to P.21 to DP.08	1.1	0.0212	34797	738
4	Exge to P.21 to DP.09	1.1	0.0218	34797	759
5	Exge to P.21 to DP.25	1.3	0.0246	34797	856
6	Exge to P.31 to DP.01	IV less than 430 V			
7	Exge to P.31 to DP.07				
8	Exge to P.31 to DP.09				
9	Exge to P.31 to DP.23				

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10	Exge to P.32 to DP.09	IV less than 430 V			
11	Exge to P.32 to DP.16				
12	Exge to P.32 to DP.23				
13	Exge to P.32 to DP.28				
14	Exge to P.32 to DP.36				
15	Exge to P.41 to DP.15				
16	Exge to P.41 to OP. 19				
17	Exge to P.41 to DP.23				
18	Exge to P.41 to DP.11				
19	Exge to P.41 to DP.16				
XX SKM	SRIVAIKUNTAM TELEPHONE EXCHANGE				
1	Exge to P.21 to DP.08	IV less than 430 V			
2	Exge to P.21 to DP.09				
3	Exge to P.21 to DP.16				
4	Exge to P.21 to DP.22				
5	Exge to P.21 to DP.29				
6	Exge to P.22 to DP.11				
7	Exge to P.22 to DP.14				
8	Exge to P.22 to DP.16				
9	Exge to P.22 to DP.21				
10	Exge to P.22 to DP.23				
11	Exge to P.22 to DP.32				
12	Exge to P.23 to DP.02				
13	Exge to P.23 to DP.18				
14	Ex e to P.23 to DP.22				
15	Exge to P.23 to DP.27				

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16	Exge to P.23 to DP.29	IV less than 430 V							
17	Exge to P.24 to DP.05								
18	Exge to P.24 to DP.10								
19	Exge to P.24 to DP.19								
20	Exge to P.24 to DP.25								
21	Exge to P.24 to DP.36								
22	Exge to P.24 to DP.43								
23	Exge to P.25 to DP.07								
24	Exge to P.25 to DP.26								
25	Exge to P.31 to DP.13								
26	Exge to P.31 to DP.15								
27	Exge to P.31 to DP.19								
28	Exge to P.31 to DP.32								
29	Exge to P.31 to DP.33								
30	Exge to P.34 to DP.13								
31	Exge to P.34 to DP.16								
32	Exge to P.34 to DP.19								
33	Exge to P.34 to DP.20								
XXI NAZ	NAZARETH TELEPHONE EXCHANGE								
1	Exge to P.20 to DP.06					IV less than 430 V			
2	Exge to P.20 to DP.07								
3	Ex e to P.20 to DP.08								
4	Exge to P.21 to DP.01								
5	Exge to P.21 to DP.07								
6	Exge to P.21 to DP.08								
7	Exge to P.21 to DP.19								

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8	Exge to P.21 to DP.22	IV less than 430 V
9	Exge to P.21 to DP.23	
10	Exge to P.21 to DP.24	
11	Ex e to P.21 to DP.28	
12	Exge to P.21 to DP.29	
13	Exge to P.21 to DP.30	
14	Exge to P.21 to DP.31	
15	Ex e to P.21 to DP.33	
16	Exge to P.21 to DP.34	
17	Exge to P.21 to DP.35	
18	Exge to P.22 to DP.14	
19	Exge to P.22 to DP.15	
20	Exge to P.22 to DP.31	
21	Exge to P.22 to DP.35	
22	Exge to P.22 to DP.36	
23	Ex e to P.22 to DP.41	
24	Exge to P.26 to DP.02	
25	Exge to P.26 to DP.08	
26	Exge to P.26 to DP.09	
27	Exge to P.26 to DP.11	
28	Exge to P.26 to DP.12	
29	Exge to P.26 to DP.27	
30	Exge to P.26 to DP.28	
31	Exge to P.27 to DP.10	
32	Exge to P.27 to DP.11	
33	Exge to P.27 to DP.15	

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34	Exge to P.27 to DP.18	IV less than 430 V							
35	Exge to P.27 to DP.20								
36	Exge to P.31 to DP.01								
37	Exge to P.31 to DP.05								
38	Exge to P.31 to DP.12								
39	Exge to P.31 to DP.16								
40	Exge to P.31 to DP.22								
41	Exge to P.31 to DP.24								
42	Exge to P.32 to DP.15								
43	Exge to P.32 to DP.16								
44	Exge to P.32 to DP.17								
45	Exge to P.32 to DP.18								
46	Exge to P.32 to DP. 19								
47	Exge to P.32 to DP.20								
48	Exge to P.33 to DP.15								
49	Exge to P.33 to DP.16								
50	Exge to P.34 to DP.02								
51	Exge to P.34 to DP.01								
XXII ALW	ALWARTIRUNAGARI TELEPHONE EXCHANGE								
1	Exge to P.21 to DP.01					IV less than 430 V			
2	Exge to P.21 to DP.02								
3	Exge to P.21 to DP.15B								
4	Exge to P.22 to DP.05								
5	Exge to P.22 to DP.10								
6	Exge to P.22 to DP.16								
7	Exge to P.22 to DP.16B								

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8	Exge to P.22 to DP.37A	IV less than 430 V							
9	Exge to P.22 to DP.37B								
10	Exge to P.23 to DP.09								
11	Exge to P.23 to DP.11								
12	Exge to P.23 to DP.12								
13	Exge to P.23 to DP.16								
14	Exge to P.23 to DP.19								
15	Exge to P.23 to DP.20								
16	Exge to P.25 to DP.02								
17	Exge to P.25 to DP.10B								
18	Exge to P.25 to DP.18B								
19	Exge to P.25 to DP.31								
XXIII AUT	AUTHOOR TELEPHONE EXCHANGE								
1	Exge to P.21 to DP.12					IV less than 430 V			
2	Ex e to P.21 to DP.24								
3	Exge to P.21 to DP.33								
4	Exge to P.21 to DP.39								
5	Exge to P.21 to DP.43								
6	Exge to P.22 to DP.05								
7	Exge to P.22 to DP. 10								
8	Exge to P.22 to DP. 14								
9	Exge to P.22 to DP.31								
10	Exge to P.22 to DP.37								
11	Exge to P.23 to DP.01								
12	Exge to P.23 to DP. 07								
13	Exgc to P.23 to DP. 13								

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14	Exge to P.32 to DP.12	IV less than 430 V
15	Exge to P.32 to DP.32	
16	Exge to P.32 to DP.33	
17	Exge to P.32 to DP.35	
18	Exge to P.41 to DP.08	
19	Exge to P.41 to DP.10	
20	Exge to P.41 to DP.34	
21	Exge to P.41 to DP.43B	

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ANNEXURE-II

CEA Case No.: TN-718		Map Scale : 1 cm= 500 m			
Name of the Power line: 400 kV D/C line from Udangudi Thermal Plant Switchyard to proposed Ottapidaram 400/230-110 kV SS		Total Length : 70.68 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.
Southern Railway Letter No: W.384/3/2/1227 Date: 07.02.2023					
1.	Vanchimaniyachchi - Tattaparai	3.5	0.0029	17931	52
2.	Tattaparai - Milavittan	3.6	0.0086	16395	140
3.	Milavittan - Tuticorin	Out of parallelism			0
4.	Seydunganallur - Srivaikuntam				0
5.	Srivaikuntam - Nazareth	5.6	0.0012	20401	24
6.	Nazareth - Arumuganeri	8.5	0.0143	26224	375
7.	Arumuganeri – Tiruchendur	9.6	0.0053	32642	173

B/46937/Sigs 7(b)/3211/

11 Aug 2023

Superintending Engineer/Transmission-I &
Secretary/Power, SLPTCC
TamilNadu Transmission Corporation
5th Floor, TANTRANSCO HQ,
144, Anna Salai, Chennai-600 002



✓ EE/TSM	EE/WORKS
EE/PROJ	SUPPLY
18 21/8/23	
SE / Transmission-I	

**PTCC PROPOSAL –ERECTION OF 400KV DC LINE ON DC TOWERS WITH
QUAD MOOSE CONDUCTOR FROM UDANGUDI THERMAL PLANT
SWITCHYARD TO PROPOSED OTTAPIDARAM 400/230-110KV SS-REG.**

1. Refer your letter No 001088/SE/TR-I/EE/TSM/A1/F.PTCC/ dt 01 Feb 2023.
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.

(SP Choyal)
Lieutenant Colonel
General Staff Officer Grade 1 (Communication)
for Additional Director General (Telecommunication)

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

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

- for information