



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-691	28.09.2021
PTCC proposal of 400 kV DC line on DC tower from M/s SEPC IPP Thermal Power Plant, Tuticorin to the existing Thennampatti 400/230-110 kV Substation via Ottapidaram (51.973 km)	

Reference:		
S. No.	Reference No.	Dated
(i)	TANTRANSCO: SE/TR-I/EE/TSM/AEE1/F.PTCC/D.90/20	04.08.2020
(ii)	BSNL: SR-PTCC/STN-2783/11	30.09.2020
(iii)	Southern Railway: W.384/3/2/1213	14.08.2020
(iv)	Defense: B/46937/Sigs 7(b)/2122	26.10.2020
(v)	TANTRANSCO: Email	15.09.2021

The PTCC proposal submitted vide reference (i) has been examined. The low frequency induction on BSNL cables and block & telecom circuits of Southern Railway as per details furnished vide reference (ii) and (iii) respectively has been examined. Voltages likely to be induced on paralleling BSNL cables and block & telecom circuits of Southern 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 ref. (iv) above, Defense have conveyed No Objection Certificate (a copy enclosed as Annexure-III).

Taking above into consideration, take necessary action for issuance of PTCC route approval.

**Encl.:** As above.

Signature Not Verified  
Digitally signed by RAGHAVENDRA  
PRATAP SINGH  
Date: 2021.09.28 10:38:07 IST

Director

To,

1.	The Divisional Engineer (PTCC), Southern Zone	BSNL, O/o DET (PTCC), Inspection Circle, 1st Floor, Raj Bhavan Exchange, No. 26, Sardar Patel Road, Guindy, Chennai-600032	
2.	GM (S&T)	Southern Railway, Head Quarters Office, S&T Branch, Chennai - 600003	Annexure -II only
3.	Superintending Engineer, Transmission-I	Tamil Nadu Transmission Corporation Ltd, 6 <sup>th</sup> Floor, NPKRR Maaligai, 144, Anna Salai, Chennai-600002	Copy for information

Annexure I

Case No.STN 2783		SSA: Tuticorin			
Name of the power line: PTCC Proposal for the Erection of 400 KV DC line on DC line on DC Towers with Moose conductor from M/s. SEPC IPP Thermal Power Plant/ Tuticorin to the Existing Thennapatti 400/230-110 KV Sub-Station via Ottapidaram.					
Length:		61.973 Kms			
Average SR value : 1531.70 ohm ms		Type of BSNL cable: PUJF			
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
<b>I PUA PUTHIAMPUTHUR EXCHANGE</b>					
1	Exge to P 21 to DP 2101				
2	Exge to P 21 to DP 2102				
3	Exge to P 21 to DP 2103				
4	Exge to P 21 to DP 2104				
5	Exge to P 21 to DP 2105				
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 23 to DP 2301				
10	Exge to P 23 to DP 2302				
11	Exge to P 23 to DP 2303				
12	Exge to P 23 to DP 2304				
13	Exge to P 23 to DP 2305				
14	Exge to P 31 to DP 3101				
15	Exge to P 31 to DP 3102				
16	Exge to P 31 to DP 3103				
17	Exge to P 31 to DP 3104				
18	Exge to P 31 to DP 3105				
19	Exge to P 31 to DP 3106				
20	Exge to P 32 to DP 3201				
21	Exge to P 32 to DP 3202				
22	Exge to P 32 to DP 3203				
23	Exge to P 32 to DP 3204				
24	Exge to P 32 to DP 3205				
25	Exge to P 33 to DP 3301				
26	Exge to P 33 to DP 3302				
27	Exge to P 33 to DP 3303				
28	Exge to P 33 to DP 3304				
29	Exge to P 33 to DP 3305				
30	Exge to P 34 to DP 3401				
31	Exge to P 34 to DP 3402				
32	Exge to P 34 to DP 3403				
33	Exge to P 34 to DP 3404				
34	Exge to P 34 to DP 3405				
<b>II OTP OTTAPIDARAM EXCHANGE</b>					
1	Exge to P 21 to DP 2101				
2	Exge to P 21 to DP 2102				
3	Exge to P 21 to DP 2103				
4	Exge to P 21 to DP 2104				
5	Exge to P 21 to DP 2105				
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	Exge to P 22 to DP 2205				

IV Less than 430 V

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 केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
 विद्युत मंत्रालय/Ministry of Power  
 भारत सरकार/Minist. of India  
 नई दिल्ली/New Delhi

11	Exge to P 23 to DP 2301				
12	Exge to P 23 to DP 2302				
13	Exge to P 23 to DP 2303				
14	Exge to P 23 to DP 2304				
15	Exge to P 23 to DP 2305				
16	Exge to P 31 to DP 3101				
17	Exge to P 31 to DP 3102				
18	Exge to P 31 to DP 3103				
19	Exge to P 31 to DP 3104				
20	Exge to P 31 to DP 3105				
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 41 to DP 4101				
27	Exge to P 41 to DP 4102				
28	Exge to P 41 to DP 4103				
29	Exge to P 41 to DP 4104				
30	Exge to P 41 to DP 4105				
<b>III KRC KURUKKUSALAI EXCHANGE</b>					
1	Exge to P 21 to DP 2101				
2	Exge to P 21 to DP 2102				
3	Exge to P 21 to DP 2103				
4	Exge to P 21 to DP 2104				
5	Exge to P 21 to DP 2105				
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	Exge to P 22 to DP 2205				
11	Exge to P 23 to DP 2301				
12	Exge to P 23 to DP 2302				
13	Exge to P 23 to DP 2303				
14	Exge to P 23 to DP 2304				
15	Exge to P 23 to DP 2305				
16	Exge to P 31 to DP 3101				
17	Exge to P 31 to DP 3102				
18	Exge to P 31 to DP 3103				
19	Exge to P 31 to DP 3104				
20	Exge to P 31 to DP 3105				
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 41 to DP 4101				
27	Exge to P 41 to DP 4102				
28	Exge to P 41 to DP 4103				
29	Exge to P 41 to DP 4104				
30	Exge to P 41 to DP 4105				
<b>IV KOD KODIANGULAM EXCHANGE</b>					
1	Exge to P 21 to DP 2101				
2	Exge to P 21 to DP 2102				
3	Exge to P 21 to DP 2103				
4	Exge to P 21 to DP 2104				
5	Exge to P 21 to DP 2105				

IV less than  
430 V.

*Prateek*

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6	Exge to P 21 to DP 2106			
7	Exge to P 22 to DP 2201			
8	Exge to P 22 to DP 2202			
9	Exge to P 22 to DP 2203			
10	Exge to P 22 to DP 2204			
11	Exge to P 22 to DP 2205			
<b>V MYC MANIYACHI EXCHANGE</b>				
1	Exge to P 21 to DP 2101			
2	Exge to P 21 to DP 2102			
3	Exge to P 21 to DP 2103			
4	Exge to P 21 to DP 2104			
5	Exge to P 21 to DP 2105			
6	Exge to P 21 to DP 2106			
7	Exge to P 21 to DP 2107			
8	Exge to P 22 to DP 2201			
9	Exge to P 22 to DP 2202			
10	Exge to P 22 to DP 2203			
<b>VI TST SIPCOT II EXCHANGE</b>				
1	Exge to p21-collectorate office pillar 27			
2	exge to p21 to all DPs of pillar21			
3	Exchange to IZ0026 soorisapuram			
<b>VII TTS SIPCOT I EXCHANGE</b>				
1	Exge to p21-Exchange backside pillar			
2	exge to p21 to all DPs of pillar21			
3	Exchange to p22 st.john pillar			
4	exge to p22 to all.DPs of pillar22			
5	Exchange to p23 madathur vilakku pillar			
6	exge to p23 to all DPs of pillar23			
7	Exchange to p24 Employment office pillar			
8	exge to p24 to all DPs of pillar24			
9	Exchange to p25 madathur to sorisapuram junction pillar			
10	exge to p25 to all DPs of pillar25			
11	Exchange to p26 korampallam pillar			
12	exge to p26 to DP2603 ayanadappu			
13	exge to p26 to DP2617 antonyapuram			
14	Exchange to p27 under to over bridge pillar			
15	exge to p27 to DP2705 FC Godown			
16	exge to p27 to DP2716 st.john fright			
17	Exchange to p31 sterlite pillar			
18	exge to p31 to DP3108 therkku verapandiyapuram			
19	Exchange to p32 meelavittan pillar			
20	Exchange to p32 to DP3202 pandarampatti			
<b>VIII APN ATHIPARASAKTHI NAGAR EXCHANGE</b>				
1	Exge to p21 ETTAYAPURAM ROAD LORRY SHED PILLAR			
2	exge to p21 to all DPs of pillar21			
3	exge to p22 to DP2216 sankaraperi			
4	exge to p22 to DP2233 nila sea food pudhur			
5	exge to p22 to DP2235 velayuthapuram			
6	Exge to p31 Muthammal colony main road pillar			
7	exge to p31 to all DPs of pillar31			
8	Exge to p32 state bank colony pillar			
9	exge to p32 to all DPs of pillar32			
10	Exge to p33 chinnakkannapuram pillar			
11	exge to p33 to DP3328 silverapuram			
12	Exge to p34 pandiyan bank pillar			
13	exge to p34 to all DPs of pillar34			
14	Exge to p35 old state bank colony NPR House pillar			

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15	exge to p35 to all DPs of pillar35				
16	Exge to p36 geetha hotel pillar				
17	exge to p36 to all DPs of pillar36				
18	Exge to p37 muthammal colony inside pillar				
19	exge to p37 to all DPs of pillar37				
20	Exge to p38 water tank pillar				
21	exge to p38 to all DPs of pillar38				
22	Exge to p39 kurinji nagar pillar				
23	exge to p39 to all DPs of pillar39				
<b>IX KRP</b>	<b>KRISHNARAJAPURAM EXCHANGE</b>				
1	Exge to p21 alagesapuram pillar				
2	exge to p21 to all DPs of pillar21				
3	Exge to p22 leprasy hospital pillar				
4	exge to p22 to all DPs of pillar22				
5	Exge to p23 krishnarajapuram pillar				
6	exge to p23 to all DPs of pillar23				
7	Exge to p24 st.anns hospital pillar				
8	exge to p24 to all DPs of pillar24				
9	Exge to p25 sethu pathai pillar				
10	exge to p25 to all DPs of pillar25				
11	Exge to p26 VVD School pillar				
12	exge to p26 to all DPs of pillar26				
13	Exge to p27 Ambedkar nagar pillar				
14	exge to p27 to all DPs of pillar27				
15	Exge to p31 thazhamuthu nagar pillar				
16	exge to p31 to all DPs of pillar31				
17	Exge to p32 thirespuram pillar				
18	exge to p32 to all DPs of pillar32				
19	Exge to p34 koilpillai vilai pillar				
20	exge to p34 to all DPs of pillar34				
21	Exge to p35 murugan theatre pillar				
22	exge to p35 to all DPs of pillar35				
23	Exge to p36 poobalayapuram pillar				
24	exge to p36 to all DPs of pillar36				
25	Exge to p37 poobalayapuram pillar-2				
26	exge to p37 to all DPs of pillar37				
27	Exge to p38 muthukrishnapuram pillar				
28	exge to p38 to all DPs of pillar38				
29	Exge to p39 SS PILLAI supermarket pillar				
30	exge to p39 to all DPs of pillar39				
<b>X PZL</b>	<b>PAZHAYAKAYAL Exchange</b>				
1	Exge to P21 to DP001				
2	Exge to P21 to DP002				
3	Exge to P21 to DP003				
4	Exge to P21 to DP004				
5	Exge to P21 to DP005				
6	Exge to P21 to DP006				
6	Exge to P22 to DP001				
7	Exge to P22 to DP002				
8	Exge to P22 to DP003				
9	Exge to P22 to DP004				
10	Exge to P22 to DP005				
11	Exge to P23 to DP001				
12	Exge to P23 to DP002				
13	Exge to P23 to DP003				
14	Exge to P23 to DP004				
15	Exge to P23 to DP005				

IV less than

430 V

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XI SVM	SERVAIKARANVIADAM Exchange
1	Exge to DP204
2	Exge to DP402
3	Exge to DP503
4	Exge to DP109
5	Exge to DP12
6	Exge to DP17
7	Exge to DP13
8	Exge to DP106
9	Exge to DP208
10	Exge to DP107
11	Exge to DP207
12	Exge to DP104
13	Exge to DP500
14	Exge to DP204
15	Exge to DP402
16	Exge to DP503
17	Exge to DP109
18	Exge to DP405
19	Exge to DP302
20	Exge to DP110
21	Exge to DP203
XII ZRC	ZIRCONIUM Exchange
1	Exge to IZ01
2	Exge to IZ02
3	Exge to IZ03
4	Exge to IZ04
5	Exge to IZ05
6	Exge to IZ06
7	Exge to IZ07
8	Exge to IZ08
XIII PKT	PUDUKOTTAI Exchange
1	Exge to P21 to DP 6B
2	Exge to P21 to DP5A
3	Exge to P21 to DP18b
4	Exge to P21 to DP002
5	Exge to P21 to DP7A
6	Exge to P21 to DP14
7	Exge to P21 to DP17C
8	Exge to P21 to DP001
9	Exge to P21 to DP05B
10	Exge to P21 to DP8B
11	Exge to P21 to DP16B
12	Exge to P21 to DP18A
13	Exge to P21 to DP20
14	Exge to P21 to DP6A
15	Exge to P21 to DP17A
16	Exge to P22 to DP17
17	Exge to P22 to DP26
18	Exge to P22 to DP22
19	Exge to P22 to DP33
20	Exge to P22 to DP13
21	Exge to P22 to DP31
22	Exge to P22 to DP25
23	Exge to P22 to DP28
24	Exge to P22 to DP16
25	Exge to P22 to DP30

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26	Exge to P22 to DP34				
27	Exge to P32 to DP13				
28	Exge to P32 to DP14				
29	Exge to P32 to DP6				
30	Exge to P32 to DP3				
31	Exge to P32 to DP5				
32	Exge to P32 to DP16				
33	Exge to P32 to DP28				
34	Exge to P32 to DP7				
35	Exge to P32 to DP5				
36	Exge to P32 to DP10				
37	Exge to P32 to DP34				
38	Exge to P32 to DP18				
39	Exge to P32 to DP9				
40	Exge to P33 to DP2				
41	Exge to P33 to DP11				
42	Exge to P24 to DP9b				
43	Exge to P24 to DP41A				
44	Exge to P24 to DP37A				
45	Exge to P24 to DP48A				
46	Exge to P24 to DP48				
47	Exge to P24 to DP45B				
48	Exge to P24 to DP12				
49	Exge to P24 to DP5B				
50	Exge to P24 to DP5A				
51	Exge to P24 to DP34A				
52	Exge to P24 to DP26B				
53	Exge to P24 to DP18B				
54	Exge to P24 to DP52B				
55	Exge to P24 to DP13				
56	Exge to P24 to DP18C				
57	Exge to P24 to DP46				
58	Exge to P24 to DP39				
<b>XIV MVN MUDIVAITHANENDAL Exchange</b>					
1	Exge to IZ01				
2	Exge to IZ02				
3	Exge to P000 to DP3				
4	Exge to P000 to DP4				
5	Exge to P000 to DP5				
6	Exge to P000 to DP6				
7	Exge to P000 to DP7				
8	Exge to P000 to DP8				
9	Exge to P000 to DP9				
10	Exge to P000 to DP10				
11	Exge to P000 to DP11				
<b>XV TTC CHITHAMBARANAGAR EXCHANGE</b>					
1	Exge to P 11 to DP 1129				
2	Exge to P 11 to DP 1119				
3	Exge to P 11 to DP 1125				
4	Exge to P 11 to DP 1124				
5	Exge to P 11 to DP 1123				
6	Exge to P 12 to DP 1215				
7	Exge to P 12 to DP1216				
8	Exge to P 12 to DP 1222				
9	Exge to P 12 to DP 1210				
10	Exge to P 12 to DP 1211				
11	Exge to P 41 to DP 4112				

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12	Exge to P 41 to DP 4113				
13	Exge to P 41 to DP 4117				
14	Exge to P 41 to DP 4111				
15	Exge to P 41 to DP 4110				
16	Exge to P 45 to DP 4521				
17	Exge to P 45 to DP 4527				
18	Exge to P 45 to DP 4533				
19	Exge to P 45 to DP 4531				
20	Exge to P 45 to DP 4520				
21	Exge to P 46 to DP 4673				
22	Exge to P 46 to DP 4679				
23	Exge to P 46 to DP 4677				
24	Exge to P 46 to DP 4624A				
25	Exge to P 46 to DP 4680				
26	Exge to P 54 to DP 5444				
27	Exge to P 54 to DP 5443				
28	Exge to P 54 to DP 5436				
29	Exge to P 54 to DP 5437				
30	Exge to P 54 to DP 5441				
31	Exge to P 55 to DP 5546				
32	Exge to P 55 to DP 5548				
33	Exge to P 55 to DP 5532B				
34	Exge to P 55 to DP 5540				
35	Exge to P 55 to DP 5537				
36	Exge to P 56 to DP 5662				
37	Exge to P 56 to DP 5661				
38	Exge to P 56 to DP 5665				
39	Exge to P 56 to DP 5663				
40	Exge to P 56 to DP 5659				
41	Exge to P 57 to DP 5729				
42	Exge to P 57 to DP 5726				
43	Exge to P 57 to DP 5731				
44	Exge to P 57 to DP 5732				
45	Exge to P 57 to DP 5727				
46	Exge to P 21 to DP 2105				
47	Exge to P 21 to DP 2108				
48	Exge to P 21 to DP 2109				
49	Exge to P 21 to DP 2103				
50	Exge to P 21 to DP 2110				
51	Exge to P 22 to DP 2252				
52	Exge to P 22 to DP 2253				
53	Exge to P 22 to DP 2245				
54	Exge to P 22 to DP 2257				
55	Exge to P 22 to DP 2248				
56	Exge to P 24 to DP 2405				
57	Exge to P 24 to DP 2410				
58	Exge to P 24 to DP 2415				
59	Exge to P 24 to DP 2408				
60	Exge to P 24 to DP 2403				
61	Exge to P 25 to DP 2510B				
62	Exge to P 25 to DP 2552				
63	Exge to P 25 to DP 2538				
64	Exge to P 25 to DP 2544				
65	Exge to P 25 to DP 2543				
66	Exge to P 31 to DP 3193				
67	Exge to P 31 to DP 3187				
68	Exge to P 31 to DP 3186				

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प्रतीक श्रीवास्तव/PRATEEK SRIVASTAVA  
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69	Exge to P 31 to DP 3189				
70	Exge to P 31 to DP 3190				
71	Exge to P 32 to DP 3260				
72	Exge to P 32 to DP 3255				
73	Exge to P 32 to DP 3259				
74	Exge to P 32 to DP 3257				
75	Exge to P 32 to DP 3256				
76	Exge to P 33 to DP 3315				
77	Exge to P 33 to DP 3309				
78	Exge to P 33 to DP 3307				
79	Exge to P 33 to DP 3305				
80	Exge to P 33 to DP 3319				
81	Exge to P 34 to DP 3407				
82	Exge to P 34 to DP 3411				
83	Exge to P 34 to DP 3415				
84	Exge to P 34 to DP 3409				
85	Exge to P 34 to DP 3414				
86	Exge to P 35 to DP 3520				
87	Exge to P 35 to DP 3512				
88	Exge to P 35 to DP 3525				
89	Exge to P 35 to DP 3536				
90	Exge to P 35 to DP 3521				
91	Exge to P 23 to DP 2314				
92	Exge to P 23 to DP 2310				
93	Exge to P 23 to DP 2305				
94	Exge to P 23 to DP 2316				
95	Exge to P 23 to DP 2307				
96	Exge to P 36 to DP 3646				
97	Exge to P 36 to DP 3647		IV less up ch		
98	Exge to P 36 to DP 3644		430 V		
99	Exge to P 36 to DP 3649				
100	Exge to P 36 to DP 3641				
101	Exge to P 37 to DP 3729				
102	Exge to P 37 to DP 3750				
103	Exge to P 37 to DP 3734				
104	Exge to P 37 to DP 3765				
105	Exge to P 37 to DP 3732				
<b>XVI TMS</b>	<b>MUNIASAMY PURAM EXCHANGE</b>				
1	Exge to P 13 to DP 1339				
2	Exge to P 13 to DP 1307				
3	Exge to P 13 to DP 1319				
4	Exge to P 13 to DP 1304				
5	Exge to P 13 to DP 1338				
6	Exge to P 17 to DP 1715				
7	Exge to P 17 to DP 1707				
8	Exge to P 17 to DP 1742				
9	Exge to P 17 to DP 1718				
10	Exge to P 17 to DP 1706				
11	Exge to P 21 to DP 2122				
12	Exge to P 21 to DP 2111				
13	Exge to P 21 to DP 2123				
14	Exge to P 21 to DP 2120				
15	Exge to P 21 to DP 2112				
16	Exge to P 25 to DP 2540				
17	Exge to P 25 to DP 2543				
18	Exge to P 25 to DP 2542				
19	Exge to P 25 to DP 2547				

*Prateek*

प्रतीक श्रीरामन / PRATEEK SRINASTAVA  
 सहायक निदेशक-II / Asstt. Director-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

20	Exge to P 25 to DP 2519			
21	Exge to P 50 to DP 5047			
22	Exge to P 50 to DP 5030			
23	Exge to P 50 to DP 5055			
24	Exge to P 50 to DP 5017			
25	Exge to P 50 to DP 5051			
26	Exge to P 57 to DP 5733			
27	Exge to P 57 to DP 5734			
28	Exge to P 57 to DP 5739			
29	Exge to P 57 to DP 5732			
30	Exge to P 57 to DP 5731			
31	Exge to P 51 to Dp 5112			
32	Exge to P 51 to Dp 5114			
33	Exge to P 51 to Dp 5122			
34	Exge to P 51 to Dp 5130			
35	Exge to P 51 to Dp 5138			
36	Exge to P 65 to DP 6552			
37	Exge to P 65 to DP 6551			
38	Exge to P 65 to DP 6558			
39	Exge to P 65 to DP 6541			
40	Exge to P 65 to DP 6534			
41	Exge to P 66 to DP 6650			
42	Exge to P 66 to DP 6643		IV less than	
43	Exge to P 66 to DP 6658		420 V	
44	Exge to P 66 to DP 6657			
45	Exge to P 66 to DP 6656			
46	Exge to P 67 to DP 6742			
47	Exge to P 67 to DP 6751			
48	Exge to P 67 to DP 6731			
49	Exge to P 67 to DP 6748			
50	Exge to P 67 to DP 6734			
<b>XVII TTM</b>	<b>MUTHIAPURAM EXCHANGE</b>			
1	Exge to P 31 to DP 3129			
2	Exge to P 31 to DP 3122			
3	Exge to P 31 to DP 3149			
4	Exge to P 31 to DP 3191			
5	Exge to P 31 to DP 3103			
6	Exge to P 35 to DP 3518B			
7	Exge to P 35 to DP 3537			
8	Exge to P 35 to DP 3531			
9	Exge to P 35 to DP 3517			
10	Exge to P 35 to DP 3502			
11	Exge to P 37 to DP 3717			
12	Exge to P 37 to DP 3739			
13	Exge to P 37 to DP 3738			
14	Exge to P 37 to DP 3733			
15	Exge to P 37 to DP 3716			
16	Exge to P 34 to DP 3424			
17	Exge to P 34 to DP 3419			
18	Exge to P 34 to DP 3418			
19	Exge to P 34 to DP 3421			
20	Exge to P 34 to DP 3427			
21	Exge to P 43 to DP 4332			
22	Exge to P 43 to DP 4321			
23	Exge to P 43 to DP 4313			
24	Exge to P 43 to DP 4357			
25	Exge to P 43 to DP 4314			

*Prateek*

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
 सहायक निरीक्षक-II / Asstt. Director-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

26	Exge to P 23 to DP 2360				
27	Exge to P 23 to DP 2346				
28	Exge to P 23 to DP 2359				
29	Exge to P 23 to DP 2315				
30	Exge to P 23 to DP 2318				
31	Exge to P 32 to DP 3202				
32	Exge to P 32 to DP 3213				
33	Exge to P 32 to DP 3219				
34	Exge to P 32 to DP 3221				
35	Exge to P 32 to DP 3235				
36	Exge to P 21 to DP 2142				
37	Exge to P 21 to DP 2109				
38	Exge to P 21 to DP 2105				
39	Exge to P 21 to DP 2102				
40	Exge to P 21 to DP 2116				
41	Exge to P 22 to DP 2235				
42	Exge to P 22 to DP 2225				
43	Exge to P 22 to DP 2231				
44	Exge to P 22 to DP 2232				
45	Exge to P 22 to DP 2250				
46	Exge to P 42 to DP 4223				
47	Exge to P 42 to DP 4215				
48	Exge to P 42 to DP 4221				
49	Exge to P 42 to DP 4255				
50	Exge to P 42 to DP 4232				
51	Exge to P 24 to DP 2411				
52	Exge to P 24 to DP 2484				
53	Exge to P 24 to DP 2413				
54	Exge to P 24 to DP 2476				
55	Exge to P 24 to DP 2480				
56	Exge to P 41 to DP 4164				
57	Exge to P 41 to DP 4151				
58	Exge to P 41 to DP 4118				
59	Exge to P 41 to DP 4121				
60	Exge to P 41 to DP 4103				
61	Exge to P 33 to DP 3342				
62	Exge to P 33 to DP 3328				
63	Exge to P 33 to DP 3324				
64	Exge to P 33 to DP 3333				
65	Exge to P 33 to DP 3327				
66	Exge to P 36 to DP 3623				
67	Exge to P 36 to DP 3624				
68	Exge to P 36 to DP 3616				
69	Exge to P 36 to DP 3619A				
70	Exge to P 36 to DP 3631				
<b>XVIII TTH HARBOUR EXCHANGE</b>					
1	Exge to P 43 to DP 4307B				
2	Exge to P 43 to DP 4331B				
3	Exge to P 43 to DP 4332B				
4	Exge to P 43 to DP 4336B				
5	Exge to P 43 to DP 4315A				
6	Exge to P 31 To DP 3106B				
7	Exge to P 31 To DP 3142				
8	Exge to P 31 To DP 3135				
9	Exge to P 31 To DP 3132				
10	Exge to P 31 To DP 3134				
11	Exge to P 44 to DP 4423				

IV 1855  
 (from 430 V)

*Prateek*

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
 सहायक निदेशक-II / Asstt. Director-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

12	Exge to P 44 to DP 4436				
13	Exge to P 44 to DP 4439				
14	Exge to P 44 to DP 4438				
15	Exge to P 44 to DP 4433				
16	Exge to P 38 to DP 3834				
17	Exge to P 38 to DP 3816				
18	Exge to P 38 to DP 3811				
19	Exge to P 38 to DP 3806				
20	Exge to P 38 to DP 3839				
21	Exge to P 41 to DP 4131A				
22	Exge to P 41 to DP 4127A				
23	Exge to P 41 to DP 4122B				
24	Exge to P 41 to DP 4132B				
25	Exge to P 41 to DP 4122A				
26	Exge to P 36 to DP 3607				
27	Exge to P 36 to DP 3632				
28	Exge to P 36 to DP 3650				
29	Exge to P 36 to DP 3619				
30	Exge to P 36 to DP 3608				
31	Exge to P 40 to DP 4037				
32	Exge to P 40 to DP 4011B				
33	Exge to P 40 to DP 4007B				
34	Exge to P 40 to DP 4026				
35	Exge to P 40 to DP 4035B				
36	Exge to P 37 to DP 3754				
37	Exge to P 37 to DP 3725				
38	Exge to P 37 to DP 3744A				
39	Exge to P 37 to DP 3705				
40	Exge to P 37 to DP 3701				
41	Exge to P 33 to DP 3331				
42	Exge to P 33 to DP 3354				
43	Exge to P 33 to DP 3318B				
44	Exge to P 33 to DP 3347B				
45	Exge to P 33 to DP 3344A				
46	Exge to P 42 to DP 4233				
47	Exge to P 42 to DP 4239				
48	Exge to P 42 to DP 4237				
49	Exge to P 42 to DP 4262				
50	Exge to P 42 to DP 4245				
51	Exge to P 35 to DP 3516B				
52	Exge to P 35 to DP 3560				
53	Exge to P 35 to DP 3504A				
54	Exge to P 35 to DP 3521				
55	Exge to P 35 to DP 3558A				
56	Exge to P 32 to DP 3233				
57	Exge to P 32 to DP 3212A				
58	Exge to P 32 to DP 3248				
59	Exge to P 32 to DP 3231				
60	Exge to P 32 to DP 3245				
61	Exge to P 34 to DP 3405B				
62	Exge to P 34 to DP 3435				
63	Exge to P 34 to DP 3439				
64	Exge to P 34 to DP 3423				
65	Exge to P 34 to DP 3427				
XIX TTN	TUTICORIN MAIN EXCHANGE				
1	Exge to P 35 to DP 3508				
2	Exge to P 35 to DP 3515				

IV less  
than 480 V

*Prateek*

प्रतीक श्रीवास्तव PRATEEK SRIVASTAVA  
 सहायक निरीक्षक-II / Asstt. Director-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

File No.CEA-PS-17-11(14)/21/2021-PCD Division

3	Exge to P 35 to DP 3510				
4	Exge to P 33 to DP 3311				
5	Exge to P 38 to DP 3825				
6	Exge to P 38 to DP 3836				
7	Exge to P 38 to DP 3815				
8	Exge to P 32 to DP 3215				
9	Exge to P 32 to DP 3221				
10	Exge to P 32 to DP 3219				
11	Exge to P 37 to DP 3707				
12	Exge to P 37 to DP 3722				
13	Exge to P 37 to DP 3733				
14	Exge to P 34 to DP 3412				
15	Exge to P 87 to DP 8705				
16	Exge to P 87 to DP 8725				
17	Exge to P 87 to DP 8726				
18	Exge to P 93 to DP 9327				
19	Exge to P 93 to DP 9333				
20	Exge to P 93 to DP 9329				
21	Exge to P 92 to DP 9213				
22	Exge to P 92 to DP 9214				
23	Exge to P 91 to DP 9115				
24	Exge to P 91 to DP 9124				
25	Exge to P 88 to DP 8816				
26	Exge to P 88 to DP 8826				
27	Exge to P 82 to DP 8202				
28	Exge to P 82 to DP 8212				
29	Exge to P 82 to DP 8218				
30	Exge to P 84 to DP 8412				
31	Exge to P 84 to DP 8413				
32	Exge to P 84 to DP 8418				
33	Exge to P 83 to DP 8315				
34	Exge to P 83 to DP 8319				
35	Exge to P 83 to DP 8326				
36	Exge to P 86 to DP 8619				
37	Exge to P 86 to DP 8620				
38	Exge to P 81 to DP 8101				
39	Exge to P 81 to DP 8105				
40	Exge to P 81 to DP 8103				
41	Exge to P 94 to DP 9421				
42	Exge to P 94 to DP 9415				
43	Exge to P 94 to DP 9409				
44	Exge to P 26 to DP 2613				
45	Exge to P 26 to DP 2618				
46	Exge to P 23 to DP 2311				
47	Exge to P 23 to DP 2306				
48	Exge to P 23 to DP 2307				
49	Exge to P 75 to DP 7508				
50	Exge to P 75 to DP 7509				
51	Exge to P 71 to DP 7120				
52	Exge to P 71 to DP 7121				
53	Exge to P 72 to DP 7222				
54	Exge to P 72 to DP 7223				
55	Exge to P 72 to DP 7224				
56	Exge to P 21 to DP 2125				
57	Exge to P 21 to DP 2126				
58	Exge to P 28 to DP 2812				
59	Exge to P 28 to DP 2818				

IV less than  
420 V

*Prateek*

प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
 सहायक निदेशक-II / Asstt. Director-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

60	Exge to P 28 to DP 2814				
61	Exge to P 22 to DP 2209				
62	Exge to P 22 to DP 2210				
63	Exge to P 61 to DP 6109				
64	Exge to P 61 to DP 6110				
65	Exge to P 61 to DP 6111				
66	Exge to P 69 to DP 6912				
67	Exge to P 69 to DP 6913				
68	Exge to P 63 to DP 6314				
69	Exge to R 63 to DP 6304				
70	Exge to P 62 to DP 6205				
71	Exge to P 62 to DP 6206				
72	Exge to P 73 to DP 7307				
73	Exge to P 73 to DP 7308				
74	Exge to P 74 to DP 7414				
75	Exge to P 74 to DP 7415				
76	Exge to P 77 to DP 7706				
77	Exge to P 77 to DP 7707				
78	Exge to P 60 to DP 6008				
79	Exge to P 60 to DP 6009				
80	Exge to P 71 to DP 7110				
81	Exge to P 71 to DP 7111				
82	Exge to P 64 to DP 6409				
83	Exge to P 64 to DP 6410				
84	Exge to P 66 to DP 6601				
85	Exge to P 66 to DP 6602				
86	Exge to P 62 to DP 6203				
87	Exge to P 62 to DP 6204				
88	Exge to P 62 to DP 6205				
89	Exge to P 68 to DP 6816				
90	Exge to P 68 to DP 6817				
91	Exge to P 68 to DP 6818				
92	Exge to P 47 to DP 4711				
93	Exge to P 47 to DP 4712				
94	Exge to P 47 to DP 4713				
95	Exge to P 47 to DP 4701				
96	Exge to P 43 to DP 4305				
97	Exge to P 43 to DP 4306				
98	Exge to P 40 to DP 4017				
99	Exge to P 40 to DP 4018				
100	Exge to P 41 to DP 4119				
101	Exge to P 41 to DP 4120				
102	Exge to P 12 to DP 1210				
103	Exge to P 12 to DP 1211				
104	Exge to P 12 to DP 1212				
105	Exge to P 51 to DP 5113				
106	Exge to P 51 to DP 5114				
107	Exge to P 51 to DP 5115				
108	Exge to P 54 to DP 5406				
109	Exge to P 54 to DP 5421				
110	Exge to P 54 to DP 5408				
111	Exge to P 54 to DP 5417				
112	Exge to P 53 to DP 5306				
113	Exge to P 53 to DP 5312				
114	Exge to P 53 to DP 5322				
115	Exge to P 55 to DP 5523				
116	Exge to P 55 to DP 5502				

LV less than  
430V

*Prateek*  
 प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
 सहायक निदेशक-II / Assn. Director-II  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

File No.CEA-PS-17-11(14)/21/2021-PCD Division

117	Exge to P 55 to DP 5513				
118	Exge to P 44 to DP 4405				
119	Exge to P 44 to DP 4411				
120	Exge to P 42 to DP 4414				
121	Exge to P 44 to DP 4415				
122	Exge to P 42 to DP 4206				
123	Exge to P 42 to DP 4210				
124	Exge to P 42 to DP 4218				

*Prateek*  
प्रतीक श्रीवास्तव / PRATEEK SRIVASTAVA  
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विद्युत विभाग / Ministry of Power  
भारत सरकार / Govt. of India  
नई दिल्ली / New Delhi

Case No.: TN-691		ANNEXURE - II			
Name of the Power Line: 400 kV DC line on DC tower from M/s SEPC IPP Thermal Power Plant, Tuticorin to the existing Thennampatti 400/230-110 kV Substation via Ottapidaram		Map Scale : 1 cm = 500 m. Route Length : 51.973 km Soil Resistivity : 10,000 Ohm-cm			
S.No.	Telecom Details	Length of Parallelism (in km)	Mutual Coupling (Ohms)	Fault Current (Amps)	Induced Voltage (Volts)

SOUTHERN RAILWAY					
Ref. No: W.384/3/2/1213 dated 14.08.2020					
<u>Affected Blocks &amp; Telecom Circuits Details</u>					
1	Kadambur KDU – Maniachi MEJ	4.3	0.0030	13500	41
2	Maniachi MEJ – Tatapari TIP	9.5	0.0032	11700	37
3	Tatapari TIP – Mlavittan MVN	4.4	0.0005	12100	6
4	Mlavittan MVN – Harbour TNHP	7.7	0.0042	13200	55
5	Maniachi MEJ – Narikinaru NRK	2.9	0.0004	12900	5

*Prateek*

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सहायक निदेशक-II/Asst. Director-II  
केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
शक्ति मंत्रालय/Ministry of Power  
भारत सरकार/Govt. of India  
नई दिल्ली/New Delhi



File No.CEA-PS-17-11(14)/21/2021-PCD Division

Tele : 23019746

TN-691

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

Annex-III

B/46937/Sigs 7(b)/2122/

10 Oct 2020

Superintending Engineer/Transmission-I&Secretary/  
Power, SLPTCC,  
Tamil Nadu Transmission Corporation Limited  
6<sup>th</sup> Floor, NPKRR Maaligai, 144, Annasalai  
Chennai-600 002

PTCC ROUTE APPROVAL FOR THE ERECTION OF 400KV DC LINE ON DC TOWER WITH  
TWIN-MOOSE CONDUCTOR FROM M/S SEPC IPP THERMAL POWER PLANT/TUTICORIN TO  
THE EXISTING THENNAMPATTI 400/230-110KV SUB-STATION VIA OTTAPIDARAM -REG

1. Ref your letter Lr.No. SE/TR-I/EE/TSM/AEE1/F.PTCC/D.90/120 dt 04 Aug 2020 (copy att).
2. No Objection Certificate (NOC) is accorded based on inputs provided vide Map sheets received under your letter mentioned above.
3. Documents alongwith map sheets (in original) are returned herewith for your further necessary action.

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

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  
O/o PGM (North), QA & Inspection Circle,  
D-Tax Building, Janpath  
New Delhi-110001

for information