



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युतसंचारविकासप्रभाग

Power Communication Development Division



M/C

No.: CEA/PCD/ PTCC/TN-686/424-26

Date: 26.08.2020

Subject: PTCC proposal of \pm 320 kV HVDC Pugalur – Thrissur Transmission line - regd.

Ref: (i) PGCIL Ref No. SR-II/320kV/PTCC/2020/820 dated 11.02.2020
(ii) BSNL Ref. No. SR-PTCC/SKL-2697/03 dated 03.08.2020
(iii) Southern Railway Ref No. W.384/3/3/671 dated 19.03.2020
(iv) Defense Ref. No. B/46937/Sigs 7(b)/2005 dated 01.07.2020

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on BSNL cables and Southern Railway telecom circuits, as per details furnished vide ref. (ii) and (iii) respectively, has been examined. The Soil Resistivity value has been taken as 1,00,000 Ohms-cm and 20,000 Ohms-cm for Kerala portion and 50,000 Ohms-cm for Tamil Nadu portion. Voltages likely to be induced on paralleling BSNL cables and Southern Railway telecom circuits under single line to ground fault condition are enclosed at Annex-I and Annex-II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above ref. (iv) for this line (a copy enclosed at Annex-III).

Taking above into consideration, kindly take necessary action regarding issue of PTCC route approval.

Encl.: As above.

Upendra Kumar
26.08.2020

(Upendra Kumar)
Chief Engineer

To,
The Divisional Engineer (PTCC), Southern Zone,
Bharat Sanchar Nigam Limited (BSNL),
O/o DET (PTCC), Inspection Circle,
1st Floor, Raj Bhavan Exchange,
No. 26, Sardar Patel Road, Guindy, Chennai-600032

Copy to:

1. Asst. Signal Telecommunication Engineer, Southern Railway, Headquarters Office. Signal & Telecomm Branch, Chennai – 600003 - (with Annex-II)
2. Manager / Engg, PGCIL, Southern Region Transmission System-II RHQ, Near RTO Driving Test Track, Singanayakanahalli, Yelahanka Hobli, Bengaluru - 560064

CEA case No.: TN-686

Case No.SKL-2697		SSA:A. Thrissur (Kerala Region)			
PTCC Proposal for 320 KV Pugalur-Thrissur Transmission line from Thrissur HVDC Sub Station at Madakkathara to Vadakkenchery(320 KV UG Cable).					
Length: 165.186Kms(Kerala OH line=63.626Kms,UG cable=27.3Kms)					
Average SR value : 945.081 ohm-kms(Kerala Region): 100,000 Ω -km Type of BSNL cable: PIJF					
Sl.No.	Name of Telecom line	LOP In Kms	MC in Ohms	FC in AmPs	IV in Volts
I	KANNARA PATTIKKAD TELEPHONE EXCHANGE				
1	Exge-P21-DP2101				
2	Exge-P22-DP2201				
3	Exge-P23-DP2301				
4	Exge-P24-DP2401				
5	Exge-P25-DP2501				
6	Exge-P30-DP3001				
7	Exge-P31-DP3101				
8	Exge-P32-DP3201				
9	Exge-P33-DP3301				
10	Exge-P34-DP3401				
11	Exge-P41-DP4101				
12	Exge-P41A-DP41A01				
13	Exge-P41B-DP41B01				
14	Exge-P42-DP4201				
II	MANNAMANGALAM TELEPHONE EXCHANGE				
1	Exge - P 35 - DP3501				
2	Exge - P 31 - DP3101				
3	Exge - P 33 - DP3301				
4	Exge - P 32 - DP3201				
5	Exge - P 34 - DP3401				
6	Exge - P 41 - DP4101				
7	Exge - P 43 - DP4301				
8	Exge - P 44 - DP4401				
9	Exge - P 23 - DP2301				
10	Exge - P 21 - DP2101				
11	Exge - P 25 - DP2501				
12	Exge - P 45 - DP4501				
13	Exge - P 42 - DP4201				
14	Exge - P 24 - DP2401				
15	Exge - P 22 - DP2201				
16	Exge - P 28 - DP2801				
17	Exge - P 27 - DP2701				
III	KURICHIKKARA TELEPHONE EXCHANGE				
1	Exge-DPIZ01				
2	Exge-P21-DPC102				
3	Exge-P22-DP228102				
4	Exge-P23-DP238102				
5	Exge-P24-DP2442				
6	Exge-P25-DP2542				
7	Exge-P26-DP-B31				
8	Exge-P27-DPC23				
9	Exge-P31-DP3157				
10	Exge-P32-DP3249				
11	Exge-P33-DP3301				

IV Less than 30V

Prateek
 प्रतीक श्रीवास्तव/PRATEEK SHIVASTAVA
 सहायक निरीक्षक-II / Asstt. Director-II
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.
 विद्युत मंत्रालय / Ministry of Power
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IV	VALAKKAVU TELEPHONE EXCHANGE				
	1	Exge - P21 - DP2101			
	2	Exge - P22 - DP2201			
	3	Exge - P 23 - DP2301			
	4	Exge - P 24 - DP2401			
	5	Exge - P 25 - DP2501			
	6	Exge - P 26 - DP2601			
	7	Exge - P 27 - DP2701			
	8	Exge - P 28 - DP2801			
	9	Exge - P 29 - DP2901			
	10	Exge - P 30 - DP3001			
	11	Exge - P 31 - DP3101			
	12	Exge - P 32 - DP3201			
	13	Exge - P 33 - DP3301			
	14	Exge - P 34 - DP3401			
	15	Exge - P 35 - DP3501			
	16	Exge - P 36 - DP3601			
	17	Exge - P 37 - DP3701			
	18	Exge - P 39 - DP3801			
V	PEECHI TELEPHONE EXCHANGE				
	1	Exge-P01-DP0101			
	2	Exge-P21-DP2101			
	3	Exge-P22-DP2201			
	4	Exge-P30-DP3001			
	5	Exge-P31-DP3101			
	6	Exge-P32-DP3201			
	7	Exge-P33-DP3301			
	8	Exge-P34-DP3401			
VI	VANIYAMPARA TELEPHONE EXCHANGE				
	1	Exge-P21-DP2101			
	2	Exge-P22-DP2201			
	3	Exge-P23-DP2301			
VII	MANNUTHY TELEPHONE EXCHANGE				
	1	Exge-P70-DP01			
	2	Exge-P71-DP71-01			
	3	Exge-P75A-DP01			
	4	Exge-P75B-DP01			
	5	Exge-P72-DP01			
	6	Exge-P65-DP01			
	7	Exge-P65-DP01			
	8	Exge-P76A-DP01			
	9	Exge-P76B-DP01			
	10	Exge-P73-DP01			
	11	Exge-P74-DP01			
	12	Exge-P68-DP01			
	13	Exge-P67-DP01			
	14	Exge-P79A-DP01			
	15	Exge-P79B-DP01			
	16	Exge-P81-DP01			
	17	Exge-P91-DP01			
	18	Exge-IZ64-DP01			
	19	Exge-P78-DP01			
	20	Exge-P80-DP80-01			
	21	Exge-P84-DP01			
	22	Exge-P90-DP01			
	23	Exge-P87-DP01			
	24	Exge-P88-DP01			
	25	Exge-P83-DP01			
	26	Exge-P82-DP01			
	27	Exge-P86-DP01			
	28	Exge-P85-DP01			
	29	Exge-P77-DP01			
	30	Exge-P89-DP01			
	31	Exge-P92-DP01			

IV less than 430V

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 सहायक निदेशक-1 / Asst. Director-II
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VIII	PUNNAMPARAMBU TELEPHONE EXCHANGE				
	1	Exge - P 21- DP2120B			
	2	Exge - P 22 - DP2208A			
	3	Exge - P 23 - DP2301A			
	4	Exge - P 24- DP2404A			
	5	Exge - P 26- DP2620B			
	6	Exge - P 28 - DP2818B			
IX	ELANAD TELEPHONE EXCHANGE				
	1	Exge-P31-DP31-838			
	2	Exge-P21-DP21B2-70			
	3	Exge-P22-DP22-97			
	4	Exge-P41-DP41B3-40			
	5	Exge-P42-DP42B3-99			
	6	Exge-P43-DP43B171			
X	OILLUR TELEPHONE EXCHANGE				
	1	Exge-P34-DP3401			
	2	Exge-P35-DP3501			
	3	Exge-P36-DP3601			
	4	Exge-P37-DP3701			
	5	Exge-P39-DP3901			
	6	Exge-P32-DP3201			
	7	Exge-P40-DP4001			
	8	Exge-P46-DP4601			
	9	Exge-P47-DP4701			
	10	Exge-P53-DP5301			
	11	Exge-P60-DP6001			
	12	Exge-P71-DP7101			
	13	Exge-P55-DP5501			
XI	KURIACHIRA TELEPHONE EXCHANGE				
	1	Exge - P22 - DP2201			
	2	Exge - P26 - DP2601			
	3	Exge - P23 - DP230			
	4	Exge - P24 - DP240			
	5	Exge - P79 - DP7901			
	6	Exge - P28 - DP2806			
	7	Exge - P88 - DP8801			
	8	Exge - P86 - DP8603			
	9	Exge - P83 - DP8301			
	10	Exge - P33 - DP3301			
	11	Exge - P81 - DP8101			
	12	Exge - P87 - DP8706			
	13	Exge - P30 - DP3001			
	14	Exge - P29 - DP2901			
	15	Exge - P80 - DP8033			
	16	Exge - P25 - DP2575			
	17	Exge - P36 - DP3601			
	18	Exge - P71 - DP7101			
	19	Exge - P66-DP6601			
	20	Exge - P78 - DP7801			
	21	Exge - P82 - DP8201			
	22	Exge - P32 - DP3201			
	23	Exge - P76 - DP7621			
	24	Exge - P77 - DP7701			
	25	Exge - P85 - DP8502			
	26	Exge - P89 - DP8901			
	27	Exge - P72 - DP7201			
	28	Exge - P73 - DP7301			
	29	Exge - P84 - DP8401			

IV Less than 480 V

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XII	POONKUNNAM TELEPHONE EXCHANGE				
1	Exge -P01-	DP0101			
2	Exge -P39 -	DP3901			
3	Exge -P44 -	DP4401			
4	Exge -P45 -	DP4501			
5	Exge -P47 -	DP4701			
6	Exge -P50 -	DP5001			
7	Exge -P51 -	DP5101			
8	Exge -P52 -	DP5201			
9	Exge -P53 -	DP5301			
10	Exge -P54 -	DP5401			
11	Exge -P55 -	DP5501			
12	Exge -P56 -	DP5601			
13	Exge -P57 -	DP5701			
14	Exge -P58 -	DP5801			
15	Exge -P59 -	DP5901			
16	Exge -P60 -	DP6001			
17	Exge -P61 -	DP6101			
18	Exge -P62 -	DP6201			
19	Exge -P63 -	DP6301			
20	Exge -P64 -	DP6401			
21	Exge -P65 -	DP6501			
22	Exge -P65A -	DP65A01			
23	Exge -P66 -	DP6601			
24	Exge -P67 -	DP6701			
25	Exge -P68 -	DP6801			
26	Exge -P69 -	DP6901			
27	Exge -P70 -	DP7001			
28	Exge -P71 -	DP7101			
29	Exge -P72 -	DP7201			
30	Exge -P73 -	DP7301			
31	Exge -P73A -	DP73A01			
32	Exge -P74 -	DP7401			
33	Exge -P75 -	DP7501			
34	Exge -P76 -	DP7601			
35	Exge -P77 -	DP7701			
36	Exge -P78 -	DP7801			
37	Exge -P79 -	DP7901			
38	Exge -P80 -	DP8001			
39	Exge -P81 -	DP8101			
40	Exge -P82 -	DP8201			
41	Exge -P83 -	DP8301			
42	Exge -P84 -	DP8401			
43	Exge -P85 -	DP8501			
44	Exge -P85 -	DP8601			
45	Exge -P87 -	DP8701			
46	Exge -P88 -	DP8801			
47	Exge -P89 -	DP8901			
48	Exge -P90 -	DP9001			
49	Exge -P91 -	DP9101			
50	Exge -P92 -	DP9201			
51	Exge -P93 -	DP9301			
52	Exge -P94 -	DP9401			
53	Exge -P95 -	DP9501			

IV less than 130V

Praatech
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XIII	CHEMBUKKAVU TELEPHONE EXCHANGE				
1	Exge-P20-DP2001				
2	Exge-P21-DP2101				
3	Exge-P22-DP2201				
4	Exge-P23-DP2301				
5	Exge-P24-DP2401				
6	Exge-P25-DP2501				
7	Exge-P26-DP2601				
8	Exge-P27-DP2701				
9	Exge-P28-DP2801				
10	Exge-P29-DP2901				
11	Exge-P30-DP3001				
12	Exge-P31-DP3101				
13	Exge-P32-DP3201				
14	Exge-P33-DP3301				
15	Exge-P34-DP3401				
16	Exge-P35-DP3501				
17	Exge-P36-DP3601				
19	Exge-P37-DP3701				
20	Exge-P38-DP3801				
22	Exge-P39-DP3901				
23	Exge-P40-DP4001				
25	Exge-P41-DP4101				
26	Exge-P42-DP4201				
27	Exge-P43-DP4301				
28	Exge-P44-DP4401				
29	Exge-P45-DP4501				
30	Exge-P46-DP4601				
31	Exge-P47-DP4701				
32	Exge-P48-DP4801				
33	Exge-P49-DP4901				
34	Exge-P50-DP5001				
35	Exge-P51-DP5101				
36	Exge-P55-DP5501				
37	Exge-P56-DP5601				
38	Exge-P58-DP5801				
39	Exge-P59-DP5901				
40	Exge-P63-DP6301				
41	Exge-P64-DP6401				
42	Exge-P65-DP6501				
43	Exge-P67-DP6701				
44	Exge-P68-DP6801				
45	Exge-P69-DP6901				
46	Exge-P70-DP7001				
47	Exge-P71-DP7101				
48	Exge-P72-DP7201				
50	Exge-P73-DP7301				
51	Exge-P74-DP7401				
52	Exge-P75-DP7501				
53	Exge-P76-DP7601				
54	Exge-P77-DP7701				
55	Exge-P78-DP7801				
56	Exge-P80-DP8001				
57	Exge-P81-DP8101				
58	Exge-P82-DP8201				
59	Exge-P84-DP8401				
60	Exge-P85-DP8501				
61	Exge-P86-DP8601				
62	Exge-P87-DP8701				
63	Exge-P88-DP8801				
64	Exge-P91-DP9101				
65	Exge-P92-DP9201				
66	Exge-P93-DP9301				
67	Exge-P94-DP9401				

IV less than 430V

Prateek

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

XIV	OCB EXTERNAL EXCHANGE				
	1	Exge - P21 - DP01			
	2	Exge - P22 - DP01			
	3	Exge - P70 - DP01			
	4	Exge - P71 - DP01			
	5	Exge - P72 - DP01			
	6	Exge - P78 - DP01			
	7	Exge - P98 - DP01			
	8	Exge - P26 - DP01			
	9	Exge - P33 - DP01			
	10	Exge - P34 - DP01			
	11	Exge - P97 - DP01			
	12	Exge - P25 - DP01			
	13	Exge - P67 - DP01			
	14	Exge - P96 - DP01			
	15	Exge - P52 - DP01			
	16	Exge - P59 - DP01			
	17	Exge - P73 - DP01			
	18	Exge - P28 - DP01			
	19	Exge - P29 - DP01			
	20	Exge - P37 - DP01			
	21	Exge - P50 - DP01			
	22	Exge - P51 - DP01			
	23	Exge - P53 - DP01			
	24	Exge - P54 - DP01			
	25	Exge - P58 - DP01			
	26	Exge - P27 - DP01			
	27	Exge - P30 - DP01			
	28	Exge - P35 - DP01			
	29	Exge - P38 - DP01			
	30	Exge - P39 - DP01			
	31	Exge - P55 - DP01			
	32	Exge - P60 - DP01			
	33	Exge - P37 - DP01			
	34	Exge - P31 - DP01			
	35	Exge - P66 - DP01			
	36	Exge - P76 - DP01			
	37	Exge - P77 - DP01			
	38	Exge - P80 - DP01			
	39	Exge - P82 - DP01			
	40	Exge - P20 - DP01			
	41	Exge - P32 - DP01			
	42	Exge - P61 - DP01			
	43	Exge - P74 - DP01			
	44	Exge - P75 - DP01			
	45	Exge - P79 - DP01			
	46	Exge - P90 - DP01			
	47	Exge - P91 - DP01			
	48	Exge - P99 - DP01			
	49	Exge - P23 - DP01			
	50	Exge - P24 - DP01			
	51	Exge - P40 - DP01			
	52	Exge - P64 - DP01			
	53	Exge - P81 - DP01			
	54	Exge - P43 - DP01			
	55	Exge - P44 - DP01			
	56	Exge - P45 - DP01			
	57	Exge - P57 - DP01			
	58	Exge - P68 - DP01			
	59	Exge - P41 - DP01			
	60	Exge - P46 - DP01			
	61	Exge - P49 - DP01			
	62	Exge - P56 - DP01			
	63	Exge - P62 - DP01			
	64	Exge - P42 - DP01			
	65	Exge - P47 - DP01			
	66	Exge - P48 - DP01			
	67	Exge - P69 - DP01			

IV less than 430 V

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 विद्युत निदेशक / Ministry of Power
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 नई दिल्ली - New Delhi.

XV	MULAKUNNATHUKAVU TELEPHONE EXCHANGE					
	1	Exge - P20 - DP 20A2				
	2	Exge - P 21 - DP 21C2				
	3	Exge - P 22 - DP 22B2				
	4	Exge - P 23 - DP 23A2				
	5	Exge - P 24 - DP 24B2				
	6	Exge - P 25 - DP 25B2				
	7	Exge - P 26 - DP 26A2				
	8	Exge - P 27 - DP 27C2				
	9	Exge - P 28 - DP 28B2				
	10	Exge - P 29 - DP 29C2				
	11	Exge - P 30 - DP 30B2				
	12	Exge - P 31 - DP 31B2				
	13	Exge - P 32 - DP 32A2				
	14	Exge - P 33 - DP 33B2				
	15	Exge - P 36 - DP 36A2				
	16	Exge - P 37 - DP 37A2				
	17	Exge - P 38 - DP 38A2				
	18	Exge - P 39 - DP 39B2				
	19	Exge - P 41 - DP 41D2				
	20	Exge - P 42 - DP 42A2				
	21	Exge - P 43 - DP 43A2				
	22	Exge - P 50 - DP 50A2				
	23	Exge - P 51 - DP 51A2				
	24	Exge - P 52 - DP 52B2				
	25	Exge - P 53 - DP 53B2				
	26	Exge - P 54 - DP 54C2				
	27	Exge - P 55 - DP 55A2				
	28	Exge - P 56 - DP 56A2				
	29	Exge - P 57 - DP 57B2				
	30	Exge - P 61 - DP 61A2				
	31	Exge - P 62 - DP 62A2				
	32	Exge - DP 00A2				
XVI	MUNDUR TELEPHONE EXCHANGE					
	1	Exge - P 42 - DP4234C				
	2	Exge - P43 -DP4332C				
	3	Exge - P44 -DP4449H				
	4	Exge - P44 -DP4423C				

IV less than 430V

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

SSA: B.Palakkad(Kerala Region)		LOP in	MC in	FC in	
Sl.No.	Name of Telecom line	KMs	Ohms	AmPs	IV in Volts
I PAN	PANTHALAMPADAM TELEPHONE EXCHANGE				
1	Exge to P-21 to DP 256048				
II PUD	PUDUCODE TELEPHONE EXCHANGE				
1	Exge to P-35 to DP 266455				
2	Exge to P-34 to DP 266942				
3	Exge to P-32 to DP 266165				
4	Exge to P-33 to DP 266678				
III PAZ	PAZHAMBALACODE TELEPHONE EXCHANGE				
1	Exge to P-23 to DP 232425				
IV PAD	PADUR TELEPHONE EXCHANGE				
1	Exge to P-21 to DP 237723				
2	Exge to P-21 to DP 237401				
3	Exge to DP 237228				
4	Exge to DP 237470				
V KOR	KORENCHIRA TELEPHONE EXCHANGE				
1	Exge to P-21 to DP 268211				
2	Exge to P-21 to DP 268494				
3	Exge to P-21 to DP 268425				
4	Exge to P-22 to DP 268788				
5	Exge to P-22 to DP 268916				
6	Exge to P-23 to DP 268455				
7	Exge to P-12 to DP 269440				
VI VAD	VADAKKENCHERRY TELEPHONE EXCHANGE				
1	Exge to P-33(Anjumoorthy mangalam) to DP 258655				
2	Exge to P-33 to DP 256964				
3	Exge to P-38(Theniddukku) to DP 257659				
4	Exge to P-38 to DP 257684				
5	Exge to P-38 to DP 257298				
6	Exge to P-37(Pulingootam) to DP 254080				
7	Exge to P-37 to 254153				
8	Exge to P-37 to DP 258643				
9	Exge to P-41(Mulangode) to DP 255727				
10	Exge to P-41 to DP 257759				
11	Exge to P-41 to DP 256566				
12	Exge to P-42 (Kanakkanurthy Pillar) to DP 256617				
13	Exge to P-35(Valliyode hosPital)to DP 255273				
14	Exge to P-35 to DP 258576				
15	Exge to P-35 to DP 257500				
VII VAN	VANDAZHI TELEPHONE EXCHANGE				
1	Exge to P-22(Puzhikkal Parambu) to DP 260157				
2	Exge to P-22 to DP 260735				
3	Exge to P-21(Old Exge) to DP 260546				
4	Exge to P-23(Paduthalakulam) to DP 260183				
5	Exge to P-23(Paduthalakulam) to DP 260239				
6	Exge to P-31(MudaPallur jn) to DP 260223				
VIII ALA	ALATTUR TELEPHONE EXCHANGE				
1	Exge to P-43 to DP 222008				
2	Exge to P-43 to DP 225395				
3	Exge to P-43 to DP 224741				
4	Exge to P-37 to DP 223994				
5	Exge to P-37 to DP 223588				
6	Exge to P-37 to DP 222038				
7	Exge to P-36 to DP 222107				
8	Exge to P-36 to DP 224112				
9	Exge to P-36 to DP 222966				
10	Exge to P-39 to DP 223651				
11	Exge to P-39 to DP 225116				
12	Exge to P-23(Kavassery) to DP 223994				
13	Exge to P-23 to DP 222464				
14	Exge to P-23 to DP 222445				
15	Exge to P-42 to DP 226040				
16	Exge to P-42 to DP 224318				

IV less than 430V

Prateek

Pg 8 of 15

प्रतीक श्रीकल्याण शंभरकर SHIVASTAVA
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IX	CHI	CHITILANCHERY TELEPHONE EXCHANGE			
		1 Exge to P-21 to DP 243046			
		2 Exge to P-21 to DP 244076			
		3 Exge to P-32 to DP 244116			
		4 Exge to P-32 to DP 243053			
		5 Exge to DP 243740			
X	ADI	ADIPERANDA TELEPHONE EXCHANGE			
		1 Exge to P-21(Kanthalam) to DP 245241			
		2 Exge to P-21 to DP 245354			
		3 Exge to P-21 to DP 245173			
XI	ERI	ERIMAYUR TELEPHONE EXCHANGE			
		1 Exge to P-43 to DP 210780			
		2 Exge to P-43 to DP 210295			
		3 Exge to P-43 to DP 210321			
		4 Exge to P-33 to DP 211052			
		5 Exge to P-33 to DP 210625			
		6 Exge to P-33 to DP 210244			
		7 Exge to P-46 to DP 211218			
		8 Exge to P-46 to DP 210757			
		9 Exge to P-46 to DP 210205			
		10 Exge to P-47 to DP 211111			
		11 Exge to P-47 to DP 210618			
		12 Exge to P-47 to DP 210475			
XII	NEM	NEMMARA TELEPHONE EXCHANGE			
		1 Exge to P-21 to DP 21DP1			
		2 Exge to P-21 to DP 21DP2			
		3 Exge to P-23 to DP 23DP1			
		4 Exge to P-23 to DP 23DP2			
		5 Exge to P-42 to DP 42DP1			
		6 Exge to P-42 to DP 42DP2			
		7 Exge to P-61 to DP 61DP1			
		8 Exge to P-61 to DP 61DP2			
XIII	KUN	KUNISSERITELPHONE EXCHANGE			
		1 Exge to P-22 to DP 234799			
		2 Exge to P-22 to DP 235823			
		3 Exge to P-22 to DP 235408			
		4 Exge to P-27 to DP 234386			
		5 Exge to P-27 to DP 234588			
		6 Exge to P-27 to DP 235003			
		7 Exge to P-24 to DP 235063			
		8 Exge to P-24 to DP 234794			
		9 Exge to P-24 to DP 235720			
		10 Exge to P-26 to DP 235768			
		11 Exge to P-26 to DP 234987			
		12 Exge to P-26 to DP 235176			
XIV	COY	COYALMANNAM TELEPHONE EXCHANGE			
		1 Exge to P-24 to DP 272070			
XV	THE	THENKURISSI TELEPHONE EXCHANGE			
		1 Exge to P-21 to DP 284594			
		2 Exge to P-21 to DP 284604			
		3 Exge to P-21 to DP 283668			
XVI	ELA	ELAVENCHERRY TELEPHONE EXCHANGE			
		1 Exge to P-11(Valluvankundu) to DP 266611			
		2 Exge to P-11 to DP 266270			
		3 Exge to P-31(Peringottukavu) to DP 266044			
		4 Exge to P-31 to DP 266403			
		5 Exge to P-31 to DP 266315			
		6 Exge to P-21 to DP 266285			
		7 Exge to P-21 to DP 266349			
		8 Exge to P-22(Vattekkad) to DP 266158			
		9 Exge to P-22 to DP 266289			
		10 Exge to P-22 to DP 266655			
XVII	PAL	PALLASSENA TELEPHONE EXCHANGE			
		1 Exge to P-11 to DP 268203			
		2 Exge to P-11 to DP 268456			
		3 Exge to P-11 to DP 268351			
		4 Exge to Mini Pillar to DP 268606			
		5 Exge to DP 268449			
		6 Exge to DP 268501			

IV less than 430V

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XVIII	KODUVAYUR TELEPHONE EXCHANGE			
	1 Exge to P-12 to DP22C1			
	2 Exge to P-21 to DP21C2			
	3 Exge to P-23 to DP23C2			
	4 Exge to P-24 to DP24C1			
	5 Exge to P-32 to DP32A1			
	6 Exge to P-34 to DP34C1			
	7 Exge to P-35 to DP35C1			
XIX	POKKINNI TELEPHONE EXCHANGE			
	1 Exge to P-12 to DP 215927			
	2 Exge to P-12 to DP 215484			
	3 Exge to P-31 to DP 215167			
	4 Exge to P-22 to DP 216200			
	5 Exge to P-22 to DP 215067			
	6 Exge to P-21 to DP 216137			
	7 Exge to P-21 to DP 215882			
XX	KOLLENGODE TELEPHONE EXCHANGE			
	1 Exge to P-22 to DP 262448			
	2 Exge to P-22 to DP 264080			
	3 Exge to P-33 to DP 263333			
	4 Exge to P-33 to DP 262775			
	5 Exge to P-31A to DP 264459			
	7 Exge to P-31A to DP 262363			
	8 Exge to P-42 to DP 262903			
	9 Exge to P-42 to DP 262298			
	10 Exge to P-42 to DP 263931			
XXI	TATTAMANGALAM TELEPHONE EXCHANGE			
	1 Exge to P-32 to DP 227447			
	2 Exge to P-22 to DP 215924			
	3 Exge to P-22 to DP 215535			
XXII	KANJIKKODE TELEPHONE EXCHANGE			
	1 Exge to P-34tp DP 2567260			
	2 Exge to P-35 to DP 2566808			
	3 Exge to P-22 to DP 2567158			
XXIII	ELAPULLY TELEPHONE EXCHANGE			
	1 Exge to P-33 to DP 2584222			
	2 Exge to P-35 to DP 2583396			
	3 Exge to P-25 to DP 2583530			
XIV	CHITTUR TELEPHONE EXCHANGE			
	1 Exge to P-25 to DP 222772			
	2 Exge to P-25 to DP 223466			
	3 Exge to P-23 to DP 224724			
	4 Exge to P-23 to DP 224444			
	5 Exge to P-38 to DP 224780			
	6 Exge to P-38 to DP 222089			
	7 Exge to P-26 to DP 222767			
	8 Exge to P-26 to DP 222479			
	9 Exge to P-26 to DP 223394			
	10 Exge to P-36 to DP 222347			
	11 Exge to P-36 to DP 222499			
XV	MUTHALAMADA TELEPHONE EXCHANGE			
	1 Exge to P-21A to DP 275514			
	2 Exge to P-21A to DP 275805			
	3 Exge to P-21A to DP 275034			
	4 Exge to P-31 to DP 275893			
	5 Exge to P-31 to DP 275711			
	6 Exge to P-22 to DP 275232			
	7 Exge to P-22 to DP 275889			
	8 Exge to P-32 to DP 276270			
	9 Exge to P-32 to DP 275260			
	10 Exge to P-32 to DP 275227			
XVI	VANDITHAVALAM TELEPHONE EXCHANGE			
	1 Exge to P-32 to DP 232783			
	2 Exge to P-32 to DP 232615			
	3 Exge to P-32 to DP 232382			
	4 Exge to P-32 to DP 232045			
	5 Exge to P-21 to DP 232216			
	6 Exge to P-21 to DP 232510			
	7 Exge to P-21 to DP 232530			
	8 Exge to P-21 to DP 232599			
	9 Exge to P-21 to DP 232855			
	10 Exge to P-21 to DP 232167			

IV less than 430V

XVII	NIDA TELEPHONE EXCHANGE				
1	Exge to P-06 to DP 2566484				
2	Exge to P-96 to DP 2566682				
3	Exge to Mini pillar to DP 2568854				
4	Exge to Mini pillar to DP 2568695				
XVIII	NALLEPILLY TELEPHONE EXCHANGE				
1	Exge to P-25 to DP 282595				
2	Exge to P-25 to DP 283331				
3	Exge to P-23 to DP 282847				
4	Exge to P-23 to DP 282290				
5	Exge to P-21 to DP 282633				
6	Exge to P-21 to DP 282067				
7	Exge to P-26 to DP 282647				
XXIX	K K PATHI TELEPHONE EXCHANGE				
1	Exge to P-21 to DP 285656				
2	Exge to P-21 to DP 285197				
3	Exge to P-21 to DP 285053				
4	Exge to P-22 to DP 285528				
5	Exge to P-22 to DP 285900				
6	Exge to P-23 to DP 285147				
7	Exge to P-23 to DP 285025				
8	Exge to P-23 to DP 285821				
XXX	KOZHINJAMPARA TELEPHONE EXCHANGE				
1	Exge to P-28 to DP 273266				
2	Exge to P-28 to DP 272901				
3	Exge to P-28 to DP 272201				
4	Exge to P-28 to DP 273296				
5	Exge to P-21 to DP 272727				
6	Exge to P-27 to DP 271555				
7	Exge to P-26 to DP 272253				
8	Exge to P-26 to DP 273289				
9	Exge to P-30 to DP 272244				
10	Exge to P-30 to DP 272365				
11	Exge to P-30 to DP 272472				
XXXI	WALAYAR TELEPHONE EXCHANGE				
1	Exge to P-31 to DP 2862636				
2	Exge to P-21 to DP 2362272				
XXXII	VELANTHAVALAM TELEPHONE EXCHANGE				
1	Exge to P-21 to DP 235576				
2	Exge to P-22 to DP 235434				
3	Exge to P-22 to DP 235700				
XXXIII	R V PUDUR TELEPHONE EXCHANGE				
1	Exge to P-21 to DP 236357				
2	Exge to P-21 to DP 236166				
3	Exge to P-21 to DP 236776				
4	Exge to P-24 to DP 236007				
5	Exge to P-24 to DP 236681				
6	Exge to P-24 to DP 236526				
7	Exge to P-23 to DP 236661				
8	Exge to P-23 to DP 236006				

Prateek
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SSA	Erode (Tamil Nadu Region)				
	SR Value: 50,000 -2-0M				
Sl.No	Name of the Telecom line	LOP in Kms	FC in Amps	MC in Ohms	IV in volts
LI -DRP	DHARAPURAM TELEPHONE EXCHANGE				
1	Exge to Pillar 172 to DP 0005				
2	Exge to Pillar 172 to DP 0005 to DP 0006				
3	Exge to Pillar 171 to DP 013A				
4	Exge to Pillar 172 to DP 028A				
5	Exge to Pillar 172 to OF31				
6	Exge to Pillar 172 to DP 026A				
7	Exge to Pillar 172 to DP 0038				
LII NJM	NANJIYAMPALAYAM TELEPHONE EXCHANGE				
1	Exge to P 255 to DP 0044				
2	Exge to P 253 to DP 052A				
3	Exge to P 252 to DP 0024				
4	Exge to P 253 to DP 0003				
5	Exge to P 253 to DP 026A				
6	Exge to P 253 to DP 0043				
LIII KND	KUNDADAM TELEPHONE EXCHANGE				
1	Exge to P 21 to DP 2116				
2	Exge to P 21 to DP 2125				
3	Exge to P 21 to DP 2134				
4	Exge to P 21 to DP 2143				
5	Exge to P 31 to DP 3103				
6	Exge to P 31 to DP 3104				
7	Exge to P 31 to DP 3115				
8	Exge to P 31 to DP 3121				
9	Exge to P 32 to DP 3251				
10	Exge to P 41 to DP 4124				
11	Exge to P 41 to DP 4136				
LIV MKD	METUKKADAI TELEPHONE EXCHANGE				
1	Exge to P 32 to DP 32016				
2	Exge to P 41 to DP 41001				
3	Exge to P 41 to DP 41010				
4	Exge to P 41 to DP 41016				
5	Exge to P 41 to DP 41093				
6	Exge to P 41 to DP 41111				

IV less than 480V

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LV URD	UPPARDAM TELEPHONE EXCHANGE				
1	Exge to P 21 to DP 21014				
2	Exge to P 21 to DP 21025				
3	Exge to P 21 to DP 21052				
4	Exge to P 21 to P 22 to DP 2206				
5	Exge to P 21 to P 22 to DP 22028				
6	Exge to P 23 to DP 2306				
7	Exge to Inner zone to DP 0016				
8	Exge to Inner zone to DP 0025				
9	Exge to Inner zone to DP 0085				
LVI PKP	PETAKALIPALAYAM TELEPHONE EXCHANGE				
1	Exge to P 21 to DP 21015				
2	Exge to P 22 to DP 22012				
3	Exge to P 22 to DP 22024				
4	Exge to Inner zone to DP 0010				
LVII MNP	MANURPALAYAM TELEPHONE EXCHANGE				
1	Exge to P 22 to DP 22025				
2	Exge to P 22 to DP 22031				
3	Exge to P 23 to DP 23001				
4	Exge to P 23 to DP 23020				
5	Exge to P 24 to DP 24057				
6	Exge to P 24 to P 31 to DP 31011				
7	Exge to P 24 to P 31 to DP 31003				
8	Exge to P 24 to P 31 to DP 31001				
9	Exge to P 41 to P 42 to DP 42001				
10	Exge to P 41 to P 42 to DP 42023				
LVIII KHU	KOLATHUPALAYAM TELEPHONE EXCHANGE				
1	Exge to P 31 to DP 31005				
2	Exge to P 31 to DP 31065				
3	Exge to P 41 to DP 41019				
4	Exge to P 41 to DP 41065				
5	Exge to P 41 to P 51 to DP 51005				
6	Exge to P 41 to P 51 to DP 51055				
7	Exge to P 61 to DP 61010				
8	Exge to inner zone to DP 005				
LIX UTY	UTHIYUR TELEPHONE EXCHANGE				
1	Exge to P 21 to DP 2112 UTHIYUR				
2	Exge to P 24 to DP 2430 MUTHALIPALAYAM				
3	Exge to P 26 to DP 2620 NOCHIPALAYAM				
4	Exge to P 27 to DP 2719 CTHAYAMPALAYAM				

IV less than 430V

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SSA:C. Coimbatore(Tamil Nadu Region)

PTCC Proposal for 320 KV Pugalur-Thrissur Transmission line (Coimbatore of Over head and underground cable).

Length: 165.186 Kms(TN OH line=74.260 Kms)

Average SR value : 946.081-ohm-ms- 50,000 Ω -km Type of BSNL cable: PIJF

Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in AmPs	IV in Volts
XXIV	KINATHUKADAVU TELEPHONE EXCHANGE	}			
1	EXCH - P21-DP 2183				
2	EXCH - P23-DP 2362				
3	EXCH - P25-DP 2551				
4	EXCH - P27-DP 2752				
XXV	CHETTIYAKKAPALAYAM TELEPHONE EXCHANGE				
1	EXCH - P21-DP 2194				
2	EXCH - P22-DP 2254				
3	EXCH - P24-DP 2460				
XXVI	KOILPALAYAM TELEPHONE EXCHANGE				
1	EXCH - INR ZN - DP 0094				
2	EXCH - P22-DP 2255				
3	EXCH - P24-DP 2457				
XXXVII	VADAKIPALAYAM TELEPHONE EXCHANGE				
1	EXCH - P22-DP 2274				
2	EXCH - P23-DP 2351				
3	EXCH - P24-DP 2455				
XXXVIII	NEGAMAM TELEPHONE EXCHANGE				
1	EXCH - P21-DP 2150				
2	EXCH - P22-DP 2282				
3	EXCH - P23-DP 2354				
4	EXCH - P24-DP 2456				
5	EXCH - P25-DP 2588				
6	EXCH - P26-DP 2651				
7	EXCH - P27-DP 2755				
8	EXCH - P28-DP 2871				
9	EXCH - P29-DP 2965				
XXXIX	JAKKARAPALAYAM TELEPHONE EXCHANGE				
1	EXCH - INR ZN - DP 0094				
2	EXCH - P22-DP 2254				
3	EXCH - P23-DP 2362				
XL	METTUBAVI TELEPHONE EXCHANGE				
1	EXCH - P21-DP 2157				
2	EXCH - P22-DP 2262				
3	EXCH - P24-DP 2450				
XLI	S.KUMARAPALAYAM TELEPHONE EXCHANGE				
1	Exge to P 19 to DP 1950				
2	Exge to P 18 to DP 1850				
XLII	T.NALLIGOUNDANPALAYAM TELEPHONE EXCHANGE				
1	Exge to P21 to DP 2150				
2	Exge to DP 0050				
3	Exge to DP 0065				
4	Exge to DP 2110				

IV less than 430V

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XLIII	MANNUR TELEPHONE EXCHANGE				
1	EXGE TO P22 TO DP 50				
2	Exge to P33 to DP 50				
XLIV	KUIMITTIPATHI TELEPHONE EXCHANGE				
1	EXGE TO P 22 to DP 21002				
2	EXGE TO P 21 to DP 21002				
3	EXGE TO P 21 to DP 21082				
4	EXGE TO P 21 to DP 21015				
XLV	VALUKKUPARAI TELEPHONE EXCHANGE				
1	EXGE TO P 23 to DP 23012				
2	EXGE TO P 23 to DP 23027				
3	EXGE TO P 24 to DP 24017				
4	EXGE TO P 22 to DP 22006				
5	EXGE TO P 25 to DP 25007				
XLVI	SENJERIPUDUR TELEPHONE EXCHANGE				
1	EXGE TO P 22 TO DP 2291				
2	EXGE TO P 22 TO DP 2218				
3	EXGE TO P 31 TO DP 3119				
4	EXGE TO P 33 TO DP 3313				
5	EXGE TO P 31 TO DP 3109				
6	EXGE TO P 31 TO DP 3104				
7	EXGE TO P 31 TO DP 3116				
8	EXGE TO DP 0019				
XLVII	SULTANPET TELEPHONE EXCHANGE				
1	EXGE TO P12 TO DP1238				
2	EXGE TO P41 TO DP 4104				
3	EXGE TO P 31 TO DP 3161				
4	EXGE TO P31 TO DP 3119				
5	EXGE TO P32 TO DP 3206				
6	EXGE TO P32 TO DP 3213				
7	EXGE TO P41 TO DP 4113				
8	EXGE TO P22 TO DP 2218				
XLVIII	MANDHIRIPALAYAM TELEPHONE EXCHANGE				
1	EXGE TO P 41 TO DP 4108				
2	EXGE TO P 41 TO DP 4101				
3	EXGE TO P 41 TO DP 4125				
XLIX	VKALIPALAYAM TELEPHONE EXCHANGE				
1	EXGE TO P 32 TO DP 3255				
L	V.VELUR TELEPHONE EXCHANGE				
1	EXCH - P23-DP 2309				
2	EXCH - P24-DP 2414				
3	EXCH - P22-DP 2204				
4	EXCH - P21-DP 2112				

IV less than 430 V

Prateek

प्रतीक श्रीरामचंद्र शर्मा SHARMA
 सहायक निदेशक - संच. Director-II
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 भारत सरकार / Govt. of India
 नई दिल्ली / New Delhi

ANNEXURE - II

Case No.: TN-686 Name of the Power line: \pm 320 kV HVDC Pugalur – Thrissur Transmission line			Map Scale : 1cm=500mts Total Length : 165.186 Km. S.R. Value : 20,000 Ohms-cm, 50,000 Ohms-cm, 1,00,000 Ohms-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					
Ref. No. W.384/3/3/671 dated 19.03.2020					
1	Thrissur(TCR) – Punkunnam (PNQ)	0.7	IV calculated is very less		0
2	Punkunnam (PNQ) – Mulankunaatukavu (MGK)	OUT OF PARALLELISM			0
3	Pollachi (POY) – Kinathukadavu (CNV)	6.6			0
4	Pallakad (PGTN) – Pudunagarm (PDGM)	OUT OF PARALLELISM			0
5	Pudunagarm (PDGM) – Kollengode (KLGD)	4.2			0
6	Kollengode (KLGD) – Muthalamada (MMDA)	4.7	IV calculated is very less		0
7	Muthalamada (MMDA) – Minatchipuram (MXM)	3.5			0

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 सहायक निरीक्षक (सि.सि.सि.) Director-II
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 विद्युत मंत्रालय Ministry of Power
 भारत सरकार Government of India
 नई दिल्ली

Tele : 23019746

TN-686

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

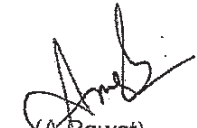
B/48937/Sigs 7(b)/2005/

01 Jul 2020

Manager/Engg
Power Grid Corporation of India Limited
Southern Region Transmission System-II RHQ
Near RTO Driving Test Track, Singanayakanahalli,
Yelahanka Hobli, Bengaluru-560 064

**PROPOSAL FOR OBTAINING PTCC CLEARANCE FOR THE 320KV PUGALUR THRISSUR
TRANSMISSION LINE (A COMBINATION OF OVERHEAD AND UNDERGROUND CABLE)-
REG**

1. Ref your letter No SR-II/320KV/PTCC/2020/819 dt 11 Feb 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

Divisional Engineer Telegraph (PTCC)
O/o GM (North); BSNL, QA & Inspection Circle,
CTS Compound, Africa Avenue Road,
Nehru Nagar, New Delhi-110023

for information