



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

पावर कम्युनिकेशन डवलपमेंट प्रभाग

Power Communication Development Division



No. CEA/PCD/ PTCC/TN 679/96-98

Date: 04.02.2020

The Divisional Engineer Telecom (PTCC),  
QA & Inspection (T&D) circle, BSNL,  
1<sup>st</sup> floor, Raj Bhavan Exchange,  
No.26, Sardar Patel Road,  
Guindy, Chennai-600032

**Subject: Induced Voltage calculation in respect of PTCC proposal of 400 kV D/C Pugalur HVDC Station to Arasur Transmission line**

- Ref:** (i) DGM, Arasur SS, PGCIL letter SR-II/PLD TLC/PA-Line/PTCC/2019/791 dated 29.05.2019  
(ii) BSNL letter no. SR-PTCC/STN/2468/8 dated 24.01.2020  
(iii) Southern Railway letter no. W.384/3/2/1198 dated 07.06.2019  
(iv) Defense letter no. B/46937/Sigs 7(b)/1686/ dated 03.09.2019

The PTCC case submitted vide reference (i) has been examined. The low frequency induction on BSNL and Railway Telecommunication circuits as per details furnished vide above references (ii) and (iii) respectively has been examined. The Soil Resistivity value has been taken as 10,000 Ohms-cm, as per data submitted by Power Authority. Voltages likely to be induced on paralleling BSNL Telecom Cables and Railway Telecommunication circuits under single line to ground fault condition are enclosed at Annex-I&II respectively. The screening factors as applicable have been considered. Defense has accorded NOC vide above Ref.(iii) for the 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*  
04.02.2020

(Upendra Kumar)  
Chief Engineer

Copy to:

- 1) GM(S&T), Southern Railway, Head Quarter Office, S&T Branch, Chennai – 600003(Only Annex-II)
- 2) DGM, 400/230 kV Arasur SS, PGCI, SRTS-II, Karumathampatti (PO), Opp. Senniandavar Kovil, Coimbatore – 641659 Tamil Nadu.

m/c

Name of PWR line:		400KV (QUAD) D/C PUGALUR HVDC STATION - ARASUR TRANSMISSION LINE			
Length:	58.908 Km	Kms			
TYPE OF BSNL CABLE: PIJF					
Average SR value :		10,000	ohm cms		
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
Coimbatore SSA Telecom details					
I	KARUVALLUR EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 22 TO DP 2254	} ← outside IV consideration zone →			
2	PILLAR 23 TO DP 2351				
3	PILLAR 24 TO DP 2451				
4	PILLAR 24 TO DP 2450				
II	THEKKALUR EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 21 TO DP 2141	} ← IV less than 430v →			
2	PILLAR 22 TO DP 2251				
3	PILLAR 23 TO DP 2367				
4	PILLAR 24 TO DP 2497				
5	PILLAR 24 TO DP 2471				
III	VAGARAYAMPALYAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 01 TO DP 0112	} ← outside IV consideration zone →			
2	PILLAR 21 TO Sahuwala flour mill DP 2107				
3	Pillar 31 to vadugapalayam DP 3109				
4	Pillar 41 to LRT DP 4116				
5	Pillar 51 to prasenna flour mill DP 5108	} ← IV less than 430v →			
6	Pillar 51 to kaduvelipalayam TNEB DP 5106				
7	Pillar 51 to kaduvelipalayam ROAD DP 5112				
IV	MANGALAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 33 TO DP 33767	} ← IV less than 430v →			
2	PILLAR 32 TO DP 3265				
3	PILLAR 22 TO DP 2253				
4	PILLAR 22 TO 2272				
5	PILLAR 52 TO DP 5251				
6	PILLAR 51 TO DP 5181				
7	PILLAR 42 TO DP 4289				

मुख्य अभियंता / Chief Engineer  
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 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

Name of PWR line:		400KV (QUAD) D/C PUGALUR HVDC STATION - ARASUR TRANSMISSION LINE			
Length:	58.908 Km	Kms			
TYPE OF BSNL CABLE: PIJF					
Average SR value :		10,000	ohm cms		
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
Coimbatore SSA Telecom details					
8	PILLAR 41 TO DP 4172	}	← IV less than 430V →		
9	PILLAR 42 TO DP 4289				
V	KARUMATHAMPATTI EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 61A TO DP 61A15	}			
2	PILLAR 61 TO DP 6117				
3	PILLAR 63 TO DP 6307				
4	PILLAR 65 TO DP 6512				
5	PILLAR 61 TO DP 6131		← IV less than 430V →		
6	PILLAR 61 TO DP 6142				
7	PILLAR 61 TO DP 6124				
8	PILLAR 64 TO DP 6416				
VI	SOMANUR EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 33 TO DP 3342	}			
2	PILLAR 31 TO DP 3108				
3	PILLAR 34 TO DP 3436				
4	PILLAR 34 TO DP 3418				
5	PILLAR 23 TO DP 2316				
6	PILLAR 00 TO DP 0032				
7	PILLAR 42 TO DP 4218				
8	PILLAR 42 TO DP 4207		← IV less than 430V →		
9	PILLAR 43 TO DP 4316				
10	PILLAR 31 TO DP 3115				
11	PILLAR 41 TO DP 4106				
12	PILLAR 51 TO DP 5106				
13	PILLAR 52 TO DP 5218				
14	PILLAR 63 TO DP 6321				
15	PILLAR 44 TO DP 4408				
16	PILLAR 53 TO DP 5319				

D/K  
 04.02.2020  
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 विद्युत विभाग / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

Name of PWR line:		SSA: Coimbatore			
400KV (QUAD) D/C PUGALUR HVDC STATION - ARASUR TRANSMISSION LINE					
Length:	58.908 Km	Kms			
TYPE OF BSNL CABLE: PIJF					
Average SR value :		10,000	ohm cms		
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
Coimbatore SSA Telecom details					
VII	PALLIPALAYAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 21 TO DP 2107	} ← IV less than 430V →			
2	PILLAR 41 TO DP 4116				
3	PILLAR 31 TO DP 3114				
4	PILLAR 31 TO DP 3109				
5	PILLAR 00 TO DP 0015				
6	PILLAR 42 TO DP 4208				
VIII	KN PURAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	EXGE TO DIRECT DP 0001	} ← IV less than 430V →			
2	PILLAR 21 TO DP 2101				
3	PILLAR 21 TO DP 2102				
4	PILLAR 21 TO DP 2103				
5	PILLAR 21 TO DP 2104				
6	PILLAR 21 TO DP 2105				
7	PILLAR 21 TO DP 2106				
8	PILLAR 21 TO DP 2107				
9	PILLAR 21 TO DP 2108				
10	PILLAR 41 TO DP 4101				
11	PILLAR 41 TO DP 4102				
12	PILLAR 41 TO DP 4103				
13	PILLAR 42 TO DP 4201				
14	PILLAR 42 TO DP 4202				
15	PILLAR 42 TO DP 4203				
16	PILLAR 42 TO DP 4204				
17	PILLAR 43 TO DP 4301				
18	PILLAR 43 TO DP 4302				
19	PILLAR 51 TO DP 5101				
20	PILLAR 51 TO DP 5102				
21	PILLAR 51 TO DP 5103				

19/11  
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 मुख्य अभियंता / Chief Engineer  
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 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

		SSA: Coimbatore			
Name of PWR line:		400KV (QUAD) D/C PUGALUR HVDC STATION - ARASUR TRANSMISSION LINE			
Length:	58.968 Km	Kms			
TYPE OF BSNL CABLE: PIJF					
Average SR value :		10,600	ohm cms		
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
Coimbatore SSA Telecom details					
22	PILLAR 51 TO DP 5104	}			
23	PILLAR 51 TO DP 5105				
24	PILLAR 51 TO DP 5106				
25	PILLAR 51 TO DP 5107				
26	PILLAR 51 TO DP 5108				
27	PILLAR 52 TO DP 5201				
28	PILLAR 52 TO DP 5202				
29	PILLAR 52 TO DP 5203				
IX	KARADIBAVI EXCHANGE		LOP in KMs	MC in Ohms	FC in Amps
1	PILLAR 21 TO DP 2101	}			
2	PILLAR 21 TO DP 2102				
3	PILLAR 21 TO DP 2103				
4	PILLAR 21 TO DP 2104				
5	PILLAR 21 TO DP 2105				
6	PILLAR 21 TO DP 2106				
7	PILLAR 21 TO DP 2107				
8	PILLAR 21 TO DP 2108				
9	PILLAR 21 TO DP 2109				
10	PILLAR 21 TO DP 2110				
11	PILLAR 21 TO DP 2111				
12	PILLAR 21 TO DP 2112				
13	PILLAR 21 TO DP 2113				
14	PILLAR 21 TO DP 2114				
15	PILLAR 21 TO DP 2115				
16	PILLAR 31 TO DP 3101				
17	PILLAR 31 TO DP 3102				
18	PILLAR 31 TO DP 3103				
19	PILLAR 31 TO DP 3104				
20	PILLAR 32 TO DP 3201				

← IV less than 430V →

← IV less than 430V →

DPK  
 04.02.2021  
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 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

Name of PWR line:		SSA: Coimbatore			
400KV (QUAD) D/C PUGALUR HVDC STATION - ARASUR TRANSMISSION LINE					
Length:	58.908 Km	Kms			
TYPE OF BSNL CABLE: PIJF					
Average SR value :		10,000	ohm cms		
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
Coimbatore SSA Telecom details					
21	PILLAR 32 TO DP 3202	}			
22	PILLAR 32 TO DP 3203				
23	PILLAR 41 TO DP 4101				
24	PILLAR 41 TO DP 4102				
25	PILLAR 41 TO DP 4103				
26	PILLAR 41 TO DP 4104				
27	PILLAR 41 TO DP 4105				
28	PILLAR 41 TO DP 4106				
29	PILLAR 41 TO DP 4107				
30	PILLAR 41 TO DP 4108				
31	PILLAR 41 TO DP 4109				
32	PILLAR 41 TO DP 4110				
33	PILLAR 41 TO DP 4111				
34	PILLAR 41 TO DP 4112				
35	PILLAR 41 TO DP 4113				
36	PILLAR 41 TO DP 4114				
37	PILLAR 42 TO DP 4201	}			
38	PILLAR 42 TO DP 4202				
39	PILLAR 42 TO DP 4203				
40	PILLAR 42 TO DP 4204				
41	PILLAR 42 TO DP 4205				
42	PILLAR 42 TO DP 4206				
43	PILLAR 42 TO DP 4207				
X	PALLADAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	EXGE TO P35 TP DP 3529	}			
2	EXGE TO P35 TP DP 3517				

← IV less than 430V →

← outside IV consideration zone →

← IV less than 430V →

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 04.02.2024  
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 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

Name of PWR line:		SSA: Coimbatore			
400KV (QUAD) D/C PUGALUR HVDC STATION - ARASUR TRANSMISSION LINE					
Length:	58.908 Km	Kms			
TYPE OF BSNL CABLE: PIJF					
Average SR value :		10,000	ohm cms		
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
Coimbatore SSA Telecom details					
3	EXGE TO P33 TP DP 3324				
4	EXGE TO P33 TP DP 3320				
5	EXGE TO P32 TP DP 3238				
6	EXGE TO P34 TP DP 3402				
7	EXGE TO P34 TP DP 3417				
8	EXGE TO P31 TP DP 3159				
9	EXGE TO P55 TP DP 5527				
10	EXGE TO P54 TP DP 5436				
11	EXGE TO P54 TP DP 5413				
12	EXGE TO P22 TP DP 2214				
13	EXGE TO P22 TP DP 2239				
14	EXGE TO P22 TP DP 2248				
15	EXGE TO P24 TP DP 2411				
16	EXGE TO P24 TP DP 2409				
17	EXGE TO P24 TP DP 2417				
18	EXGE TO P24 TP DP 2407				
19	EXGE TO P48 TP DP 4802				
20	EXGE TO P48 TP DP 4818				
21	EXGE TO P12 TP DP 1209				
22	EXGE TO P12 TP DP 1222				
23	EXGE TO P47 TP DP 4737				
24	EXGE TO P47 TP DP 4728				
XI	PERIYANDIPALAYAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 01 TO DP 012A	} ← out of 11km →			
2	PILLAR 03 TO DP 0316				
XII	NSK NAGAR EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 38 TO DP 3801	} ← IV less than 430V →			
2	PILLAR 38 TO DP 3847				
3	PILLAR 37 TO DP 3704				

6/11

W.K. 2011  
 मुख्य अभियंता/Chief Engineer  
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.  
 Ministry of Power

Name of PWR line:		SSA: Coimbatore			
400KV (QUAD) D/C PUGALUR HVDC STATION - ARASUR TRANSMISSION LINE					
Length:	58.908 Km	Kms			
TYPE OF BSNL CABLE: PIJF					
Average SR value :		10,000	ohm cms		
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
Coimbatore SSA Telecom details					
XIII	MANDRIPALAYAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	EXGE TP DIRECT DP 0001				
2	EXGE TP DIRECT DP 0002				
3	EXGE TP DIRECT DP 0003				
4	PILLAR 31 TO DP 3101				
5	PILLAR 31 TO DP 3102				
6	PILLAR 31 TO DP 3103				
7	PILLAR 41 TO DP 4101				
8	PILLAR 41 TO DP 4102				
9	PILLAR 41 TO DP 4103				
10	PILLAR 41 TO DP 4104				
11	PILLAR 41 TO DP 4105				
12	PILLAR 41 TO DP 4106				
13	PILLAR 41 TO DP 4107				
14	PILLAR 41 TO DP 4108				
15	PILLAR 41 TO DP 4109				
16	PILLAR 41 TO DP 4110				
17	PILLAR 41 TO DP 4111				
18	PILLAR 41 TO DP 4112				
19	PILLAR 41 TO DP 4113				
20	PILLAR 41 TO DP 4114				
21	PILLAR 51 TO DP 5101				
22	PILLAR 51 TO DP 5102				
23	PILLAR 51 TO DP 5103				
24	PILLAR 51 TO DP 5104				
25	PILLAR 51 TO DP 5105				
26	PILLAR 51 TO DP 5106				
27	PILLAR 51 TO DP 5107				
28	PILLAR 51 TO DP 5108				

← IV less than 430V →


01.11.2021  
 मुख्य अभियंता / Chief Engineer  
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 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi



		SSA: Coimbatore			
Name of PWR line:		400KV (QUAD) D/C PUGALUR HVDC STATION - ARASUR TRANSMISSION LINE			
Length:	58.908 Km	Kms			
TYPE OF BSNL CABLE: PIJF					
Average SR value :		15,000	ohm cms		
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
Coimbatore SSA Telecom details					
29	PILLAR 51 TO DP 5109	}			
30	PILLAR 51 TO DP 5110				
31	PILLAR 51 TO DP 5111				
32	PILLAR 51 TO DP 5112				
33	PILLAR 51 TO DP 5113				
34	PILLAR 51 TO DP 5114				
35	PILLAR 51 TO DP 5115				
36	PILLAR 51 TO DP 5116				
XIV	V KALLIPALYAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 21 TO DP 2101	}			
2	PILLAR 21 TO DP 2102				
3	PILLAR 21 TO DP 2103				
4	PILLAR 21 TO DP 2104				
5	PILLAR 22 TO DP 2201				
6	PILLAR 22 TO DP 2202				
7	PILLAR 22 TO DP 2203				
8	PILLAR 22 TO DP 2204				
9	PILLAR 22 TO DP 2205				
10	PILLAR 22 TO DP 2206				
11	PILLAR 22 TO DP 2207				
12	PILLAR 22 TO DP 2208				
13	PILLAR 33 TO DP 3301				
14	PILLAR 33 TO DP 3302				
15	PILLAR 33 TO DP 3303				
16	PILLAR 33 TO DP 3304				
17	PILLAR 34 TO DP 3401				
18	PILLAR 34 TO DP 3402				
19	PILLAR 34 TO DP 3403				
20	PILLAR 34 TO DP 3404				

← IV less than 430V →


← IV less than 430V →

  
 मुख्य अधिकारी/Chief Engineer  
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 विद्युत मंत्रालय/Ministry of Power  
 भारत सरकार/Govt. of India  
 नई दिल्ली/New Delhi

Name of PWR line:		SSA: Coimbatore			
400KV (QUAD) D/C PUGALUR HVDC STATION - ARASUR TRANSMISSION LINE					
Length:	58.908 Kms	Kms			
TYPE OF BSNL CABLE: PIJF					
Average SR value :		10,000	ohm cms		
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
Coimbatore SSA Telecom details					
XV	GANGANAICKANAPALYAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	EXGE TO DIRECT DP 0001	}			← IV less than 430V →
2	EXGE TO DIRECT DP 0002				
3	EXGE TO DIRECT DP 0003	2.2	0.0637	9800	624
4	EXGE TO DIRECT DP 0004	}			← IV less than 430V →
5	EXGE TO DIRECT DP 0005				
6	EXGE TO DIRECT DP 0006				
7	EXGE TO DIRECT DP 0007				
8	EXGE TO DIRECT DP 0008				

मुख्य अभियंता / Chief Engineer  
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 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi

Name of PWR line:		SSA: ERODE			
Length:		400KV (QUAD) D/C PUGALUR HVDC STATION - ARASUR TRANSMISSION LINE			
TYPE OF BSNL CABLE: PIJF		Average SR value : 10,000 ohm cms			
SI.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
Erode SSA Telecom details					
I	KULLAKALIPALAYAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 21 TO DP 2101	} ← out of 115m →			
2	PILLAR 21 TO DP 2163				
3	PILLAR 21 TO DP 2184				
4	PILLAR 21 TO DP 2192	} ← IV less than 430v →			
5	PILLAR 22 TO DP 2206				
6	PILLAR 22 TO DP 2220	} ← out of 115m →			
7	PILLAR 22 TO DP 2265				
8	EXGE TO INR-ZN TO PRIMARY				
II	NANJIYAMPALAYAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 252 TO DP 0024	} ← out side IV consideration zone →			
2	PILLAR 253 TO DP 0003				
3	PILLAR 253 TO DP 052A				
4	PILLAR 255 TO DP 0044				
5	PILLAR 253 TO DP 026A				
6	PILLAR 255 TO DP 0043				
III	KUNDADAM EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 21 TO DP 2116	} ← IV less than 430v →			
2	PILLAR 21 TO DP 2125				
3	PILLAR 21 TO DP 2134				
4	PILLAR 21 TO DP 2143				
5	PILLAR 31 TO DP 3103				
6	PILLAR 31 TO DP 3104				
7	PILLAR 31 TO DP 3115				
8	PILLAR 31 TO DP 3121				
9	PILLAR 32 TO DP 3251				
10	PILLAR 41 TO DP 4135 (4136)				
11	PILLAR 42 TO DP 4221				

  
 Chief Engineer  
 केंद्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
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 नई दिल्ली / New Delhi

Name of PWR line:		SSA: ERODE			
Length:		400KV (QUAD) D/C PUGALUR HVDC STATION - ARASUR TRANSMISSION LINE			
TYPE OF BSNL CABLE: PIJF		Kms			
Average SR value : 10,000 ohm cms					
Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
Erode SSA Telecom details					
12	PILLAR 42 TO DP 4253				
13	PILLAR 43 TO DP 4314				
14	PILLAR 43 TO DP 4326				
15	PILLAR 43 TO DP 4351				
16	PILLAR 43 TO DP 4347				
17	PILLAR 44 TO DP 4411				
18	PILLAR 44 TO DP 4432				
IV	METUKADAI EXCHANGE	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
1	PILLAR 21 TO DP 0020				
2	PILLAR 21 TO DP 0001				
3	PILLAR 21 TO DP 0026				
4	PILLAR 21 TO DP 0038				
5	INR-ZN DP 0084				
6	PILLAR 31 TO DP 31001				
7	PILLAR 31 TO DP 3120				
8	PILLAR 31 TO DP 31027				
9	PILLAR 31 TO DP 31035				
10	PILLAR 32 TO DP 32001				
11	PILLAR 32 TO DP 32016				
12	PILLAR 32 TO DP 32028				
13	PILLAR 32 TO DP 32039				
14	PILLAR 41 TO DP 41001				
15	PILLAR 41 TO DP 41010				
16	PILLAR 41 TO DP 41016				
17	PILLAR 41 TO DP 41093				
18	PILLAR 41 TO DP 41057				
19	PILLAR 41 TO DP 41089				
20	PILLAR 41 TO DP 41111				

← IV less than 430V →

← IV less than 430V →

04.02.2020  
 मुख्य अभियंता / Chief Engineer  
 केन्द्रीय विद्युत प्राधिकरण / C.E.A.  
 विद्युत मंत्रालय / Ministry of Power  
 भारत सरकार / Govt. of India  
 नई दिल्ली / New Delhi



B/46937/Sigs 7(b)/1686/

03 Sep 2019

DGM, 400/230K.V. Arasur Substation  
 Power Grid Corporation of India Limited  
 Karumathampatti (PO), Opp. Senniandavar Kovil  
 Coimbatore- 641 659

**PTCC APPROVAL FOR 400KV (QUAD) D/C PUGALUR HVDC STATION-ARASUR  
 TRANSMISSION LINE**

1. Ref your letter No SR-II/PLDTLC/PA-Line/PTCC/2019/791 dt 29 May 2019 (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.

*(Signature)*  
 (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,  
 Netaji Nagar, New Delhi-110023

for information

*(Signature)*  
 17/9/19 9/9  
*(Signature)*