



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत संचार विकास प्रभाग
Power Communication Development Division

Case No.: TN-657 :	dt. 26.02.21
PTCC proposal of 400 kV D/C transmission line with Quad Moose ACSR from Rasipalayam 400 kV S/S to Palavady 400 kV S/S.	

Reference:		
S. No.	Reference No.	Dated
(i)	TANTRANSCO: SE/TR-I/EM/A1/F.PTCC/D. No 138/17	31.07.2017
(ii)	BSNL: SR-PTCC/STN-1786/07	12.06.2018
(iii)	Southern Railway: W.384/3/2/1158	30.10.2017
(iv)	Defense: B/46937/Sigs 7(b)/1287	12.03.2019

The PTCC proposal submitted vide reference (i) has been examined. The low frequency induction on telecom cables of BSNL and Block & Telecom circuits of Southern Railway with respect to details furnished vide above references (ii) and (iii) respectively has been computed. The voltages likely to be induced on paralleling telecom cables of BSNL 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 above reference (iv), Defence Authority have issued No Objection Certificate (NOC) (a copy enclosed as Annexure-III).

Taking above into consideration, necessary action for issuance of PTCC route approval may be taken.

Encl.: As above.

Signature Not Verified
Digitally signed by RAJHVENDRA
PRATAP SINGH
Date: 2021.02.26 15:46:50 IST

Director

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	Annexure-I and Annexure-III
2.	Dy. Chief Signal Telecommunication Engineer	Southern Railway, Headquarters Office, S & T Branch, Chennai-600003.	Annexure-II
3.	SE, Transmission-I	TANTRANSCO, 6 th Floor, No. 144, Annasalai, Chennai-600002	Copy for information

(Annexure-I)

CEA: TN-657

Case No. STN-1786

SSA: Coimbatore

Name of the power line

400 KV DC line with Quad Moose ACSR from Rasipalayam 400 KV SS To Palavadi 400 KV SS

Length:

193.88KMs

Average SR value : 25,000 ohm cms

Type of BSNL telecom cable : PIJF

Sl.No.

Name of Telecom line

LOP in KMs

MC in Ohms

FC in Amps

IV in Volts

MAP 1 of 4(Coimbatore SSA)

KODUVAI Exge UG cables

1 Exge to Pillar 21 to DP 2127

2 Exge to Pillar 21 to DP 2110

3 Exge to Pillar 22 to DP 2221

4 Exge to Pillar 23 to DP 2312

5 Exge to Pillar 24 to DP 2411

6 Exge to Pillar 24 to DP 2422

7 Exge to Pillar 25 to DP 2511

8 Exge to Pillar 25 to DP 2512

9 Exge to Pillar 25 to DP 2519

10 Exge to Pillar 26 to DP 2610

11 Exge to Pillar 26 to DP 2612

12 Exge to Pillar 26 to DP 2605

13 Exge to Pillar 26 to DP 2617

14 Exge to Pillar 27 to DP 2727

15 Exge to Pillar 27 to DP 2716

16 Exge to Pillar 27 to DP 2707

IV less than 430V

1-1
File 2/2017
11/11

7	Exge to Pillar 23 to DP2323				
8	Exge to Pillar 24 to DP2402				
9	Exge to Pillar 24 to DP2414				
10	Exge to Pillar 24 to DP2426				
11	Exge to Pillar 25 to DP2504				
12	Exge to Pillar 25 to DP2512				
K	PERUNDURAI Exge UG cables				
1	Exge to Pillar 32 to DP3236				
2	Exge to Pillar 33 to DP3338				
3	Exge to Pillar 62 to DP6220				
4	Exge to Pillar 84 to DP8421				
5	Exge to Pillar 17 to DP1759				
6	Exge to Pillar 31 to DP3120				
7	Exge to Pillar 54 to DP5436				
8	Exge to Pillar 44 to DP4445				
9	Exge to Pillar 43 to DP4337				
10	Exge to Pillar 53 to DP5332				
11	Exge to Pillar 42 to DP4254				
12	Exge to Pillar 41 to DP4140				
13	Exge to Pillar 93 to DP9317				
14	Exge to Pillar 71 to DP7138				
15	Exge to Pillar 64 to DP6453				
16	Exge to Pillar 73 to DP7342				
17	Exge to Pillar 72 to DP7219				
18	Exge to Pillar 24 to DP2453				
19	Exge to Pillar 12 to DP1219				
20	Exge to Pillar 13 to DP1334				
21	Exge to Pillar 91 to DP9151				
22	Exge to Pillar 83 to DP8355				
23	Exge to Pillar 81 to DP8130				
24	Exge to Pillar 15 to DP1548				
25	Exge to Pillar 14 to DP1479				
26	Exge to Pillar 21 to DP2116				
27	Exge to Pillar 22 to DP229F				
28	Exge to Pillar 23 to DP2334				
29	Exge to Pillar 51 to DP5118				
30	Exge to Pillar 52 to DP5233				
31	Exge to Pillar 11 to DP1137				

IV less than 430V

Jainy

संलग्न/TANUJ
सहायक निरीक्षक-II/Asst. Director-II
केन्द्रीय विद्युत प्राधिकरण/C.E.A.
विद्युत विभाग/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-56

ANNEXURE-II

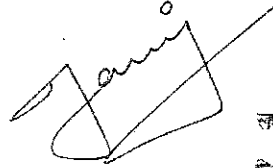
No.: TN-657 Name of the Power line: 400 kV D/C transmission line with and Moose ACSR from Rasipalayam 400 kV S/S to Palavady 400 kV S/S.			Map Scale : 1 cm = 500 m Total Length : 193.88 km S.R. value : 25,000 ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in ohmsec.	Effective Fault Amp/msec.	I.V. in Volts.

SOUTHERN RAILWAY: Ref. No: W.384/3/2/1158

DATED: 30-10-2017

Affected Blocks & Telecom Circuits Details

1	Uthukuli to Vijayamangalam	5.4	0.0054	11508	63
2	Vijayamangalam to Ingur	4.1	0.0023	11491	26
3	Mecheri Road to Omalur	11.3	0.0064	11113	71



तनुज/TANUJ
सहायक निदेशक-II/Asst. Dir. (II)
केंद्रिय विद्युत प्राधिकरण/C.E.A.
विद्युत मंत्रालय/Ministry of Power
भारत सरकार/Govt. of India
नई दिल्ली/New Delhi-68

(Annexure-III) TN-657

Tele : 23019746

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

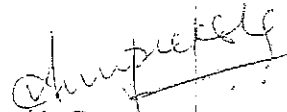
B/46937/Sigs 7(b)/1287/

12 Mar 2019

Superintending Engineer/Transmission-I&Secretary/
Power, SLPTCC,
Tamil Nadu Transmission Corporation Limited
6th Floor, No. 144, Annasalai
Chennai-600 002

**PTCC PROPOSAL-400KV DC LINE WITH QUAD MOOSE ACSR FROM RASIPALAYAM
400KV SS TO PALAVADY 400KV SS-REG.**

1. Ref your letter No Lr. No. SE/TR-I/EM/A1/F.PTCC/D.No 138/17 dt 31 July 2017 (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

for information.