



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केन्द्रीय विद्युत प्राधिकरण

Central Electricity Authority

पावर कम्युनिकेशन डेवलपमेंट प्रभाग

Power Communication Development Division

No.CEA/PCD/PTCC/TN-666/285-230

Date:15/03/2019

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

Subject: PTCC Route Approval for 230kV S/C Arasur -Gobi T/L

Reference: i) BSNL letter no. SR-PTCC/TN 1969/08 dated 26/07/2018
ii) Southern Railway letter no. W.384/3/2/1168 dated 18/01/2018
iii) Defense letter no. B/46937/Signs 7(b)/1283/ dated 21/01/2019

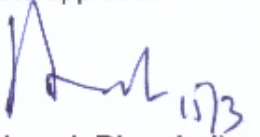
Sir,

The instant PTCC proposal 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 reference has been computed. The average Soil Resistivity (SR) value has been taken as 5,000 Ohm Cm, as intimated by Power Authority (TANTRANSO). The voltages likely to be induced on paralleling telecom cables of BSNL and Block & Telecom circuits of Southern Railway circuits under single line to ground fault condition have been computed and are enclosed at Annex-I & II respectively. The screening factors, as applicable, have been considered.

Vide Ref. (iii) above, the Defense authority have issued No Objection Certificate (NOC) (enclosed at Annex-III).

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

Encl.: As above


(Naresh Bhandari)
Chief Engineer

Copy to:

(i) Dy.Chief Signal Telecommunication Engineer, Southern Railway, Headquarters Office, S&T Branch, Chennai- 600003 (with Annexure II only).

(ii) Superintending Engineer/Transmission-I, TNTRANCO, 6th Floor, NPKRR Maaligai, 144, Anna Salai, Chennai.-600002

MIC

CEA. Case No. TN-666

Case No. STN 1969

SSA: Erode

Name of the power line

Proposed 230KV SC line on DC towers from Arasur 400KV SS(PGCIL) to Gobi 230KV SS

Length:

47.917 Kms

Average SR value : 5000 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

I

MALAYAPALAYAM Exge UG cables

1 Exge to Pillar 22 to DP2215

2 Exge to Pillar 22 to DP2224

3 Exge to Pillar 33 to DP3340

4 Exge to DPIZ06

5 Exge to DPIZ12

6 Exge to DPIZ23

II

KOLAPPALUR Exge UG cables

1 Exge to Pillar 31 to DP3112

2 Exge to Pillar 21 to DP2132

3 Exge to Pillar 21 to DP2145

4 Exge to Pillar 21 to DP2155

5 Exge to DPIZ12

6 Exge to DPIZ36

7 Exge to DPIZ56

} - IV less than 430V -

} - IV less than 430V -

1.7 0.0355 9000 320
- IV less than 430V -

Case No. STN 1969

SSA: Coimbatore

Name of the power line

Proposed 230KV SC line on DC towers from Arasur 400KV SS(PGCIL) to Gobi 230KV SS

Length:

47.917 Kms

Average SR value : ohm cms

Type of BSNL telecom cable : PIJF

I

SULUR Exge UG cables

1 Exge to Pillar 21 to DP2111

2 Exge to Pillar 31 to DP3105

3 Exge to Pillar 32 to DP 3201

4 Exge to Pillar 23 to DP 2302

II

ARASUR Exge UG cables

1 Exge to Pillar 20

2 Exge to Pillar 31

3 Exge to Pillar 20 to Pillar 32

4 Exge to Pillar 25 to DP1

5 Exge to Pillar 20 to Piliar 32 to DP2

III

VAGARAYAMPALAYAM Exge UG cables

1 Exge to Pillar 01 to DP0126

2 Exge to Pillar 21 to DP2168

3 Exge to Pillar 31 to DP3164

4 Exge to Pillar 41 to DP4132

5 Exge to Pillar 51 to DP5143

} - Out of Parallelism -

} - Out of Parallelism -

} - outside IV Conduction zone

- IV less than 430V -

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नरेश भंडारी/NARESH BHANDARI
 मुख्य अभियंता/Chief Engineer
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66

Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
IV	CHEYUR Exge UG cables				
1	Exge to Pillar 22 to DP2208	}		430V	—
2	Exge to Pillar 23 to DP2301				
3	Exge to Pillar 24 to DP2438				
4	Exge to Pillar 25 to DP2559				
V	KARUVALUR Exge UG cables				
1	Exge to Pillar 21 to DP2132	}		430V	—
2	Exge to Pillar 22 to DP2254				
3	Exge to Pillar 23 to DP2356				
4	Exge to Pillar 24 to DP2452				
VI	TEKKALUR Exge UG cables				
1	Exge to Pillar 21 to DP2158	}		430V	—
2	Exge to Pillar 22 to DP2253				
3	Exge to Pillar 23 to DP2371				
4	Exge to Pillar 24 to DP2497				
VII	THIRUMURUGAN POONDI ExgeUG cables				
1	Exge to Pillar 22 to DP2293	}			
2	Exge to Pillar 24 to DP2465				
VIII	AVINASHI Exge UG cables				
1	Exge to Pillar 21 to DP2176	}			
2	Exge to Pillar 22 to DP2284				
3	Exge to Pillar 23 to DP2375				
4	Exge to Pillar 24 to DP2489				
5	Exge to Pillar 25 to DP2557				
6	Exge to Pillar 26 to DP2689				
7	Exge to Pillar 27 to DP2769				
8	Exge to Pillar 28 to DP2877				
9	Exge to Pillar 29 to DP2991				
10	Exge to Pillar 32 to DP3243				
11	Exge to Pillar 33 to DP3354				
12	Exge to Pillar 41 to DP4188				
13	Exge to Pillar 42 to DP4271				
14	Exge to Pillar 52 to DP5270				
9	Exge to Pillar 53 to DP5372	}			
10	Exge to Pillar 61 to DP6194				
11	Exge to Pillar 62 to DP6284				
12	Exge to Pillar 65 to DP6592				
13	Exge to Pillar 72 to DP7256	}			
14	Exge to Pillar 73 to DP7365				

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नरेश भंडारी/NARESH BHANDARI
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 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66

ANNEX-III TN-666

Tele : 23019746

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

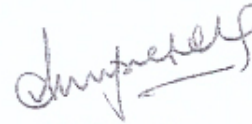
B/46937/Sigs 7(b)/1283/

21 Jan 2019

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

**PTCC PROPOSAL-230KV SINGLE CIRCUIT LINE ON DC TOWERS FROM ARASUR
400KV SS (PGCIL) TO GOBI 230KV SS-REG**

1. Ref your letter No Lr. No. SE/TR-I/EM/A1/F.PTCC/D.No 01/18 dt 05 Jan 2018 (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.