



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

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Case No.: KER-329

Date: 28.01.2021

**Subject: PTCC proposal of 400 kV D/C transmission line from 400 kV S/S Madakathara to Areecode S/S, PGCIL -regd.**

**Ref.:-** (i) KSEBL Ref. No. DCE(TS)/EEII/AEEVIII/PTCC/Madakathara-/2019- Dated: 23.09.2019  
20/1429  
(ii) Southern Railway Ref. No.W.384/3/4/544 Dated: 7.11.2018  
(iii) KSEBL Ref. No. D(T&SO)/PSE/PTCC/2020-21 Dated: 15.01.2021

The PTCC proposal submitted vide ref. (i) has been examined. The LF induction on Southern Railway as per details furnished vide ref. (ii) has been examined. The Soil Resistivity value has been taken as 7,500 ohm-cm. Voltages likely to be induced on paralleling Southern Railway Block and telecommunication circuits under single line to ground fault condition are enclosed at Annexure. The screening factors as applicable have been considered.

Telecom details from the BSNL and Defense are pending for more than prescribed time limit as per PTCC guidelines and power authority has shown urgency for the charging of proposed line vide above ref. (iii). Taking above into consideration, necessary action regarding issuance of **provisional PTCC proposal of 400 kV D/C transmission line from 400 kV S/S Madakathara to Areecode S/S, PGCIL** may be taken.

Encl.: As above.

*Raghendra Pratap Singh*  
(Raghendra Pratap Singh)  
Director

To,

1. The Divisional Engineer (PTCC), Southern Zone, Bharat Sanchar Nigam Limited (BSNL) O/o DET (PTCC), Inspection Circle, 1<sup>st</sup> Floor, Raj Bavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032. ( W/o Annex)
2. ASTE, Southern Railway, Head Quarters Office, S&T Branch, Chennai-600003. ( With Annexure)

Copy to :-

1. Deputy Chief Engineer (Tech), KSEBL, 3<sup>rd</sup> floor, Vydyuthi Bhavanam, Pattom, Thiruvananthapuram-695004.
2. Lt Col, GSO 1(Comm), Directorate General of Signals, Signals 7, General Staff Branch, Integrated HQ of MoD, (Army), DHQ PO, New Delhi-110011.

M/c

**ANNEXURE**

<b>Case No.: KER-329</b>  <b>Name of the Power line:</b> 400 kV D/C transmission line from 400 kV S/S Madakathara to Areecode S/S,PGCIL		<b>Map Scale</b> : 1 cm=500 m <b>Total Length</b> : 88.316 km <b>Soil Resistivity</b> : 7,500 ohm-cm			
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.

<b>Southern Railway</b> letter no:- W.384/3/4/544 dated 7.11.2018					
<b>Affected Blocks &amp; Telecom Circuits Details</b>					
1	Trissur to Pungunam	Outside IV consideration zone			00
2	Pungunam to Wakancherri	Outside IV consideration zone			00
3	Wakancherri to Mulankunthikavu	7.2	0.0042	12613	53
4	Mulankunthikavu to Shoranur	5.1	0.0029	11250	33
5	Shoranur to Manvour	0.5	0.0001	10568	01
6	Shoranur to Pattambi	10.1	0.0029	10769	31
7	Pattambi to Pallipuram	0.4	0.0001	10824	01
8	Shoranur to Anngadipuram	23.9	0.0051	11799	60
9	Anngadipuram to Nilambur	Out of parallelism			00
10	Guruvaour to Pungunam	Outside IV consideration zone			00

*(Handwritten Signature)*

TAMIL  
 മലയാളം മിനിസ്റ്റർ/Minister  
 മിനിസ്റ്റർ വിദ്യുച്ഛക്തി/Ministry of Power  
 വിദ്യുച്ഛക്തി/Ministry of Power  
 भारत सरकार/Govt. of India  
 ന്യൂ ദില്ലി/New Delhi-60