



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

CEA Case No.: KER-332B :
PTCC proposal of 220 kV D/C transmission line from Kottayam(Pakalomattom) to Thuravoor under 220/110 kV MCMV Transgrid Kottayam transmission lines package: 25 km

Reference:		
S. No.	Reference No.	Dated
(i)	KSEBL: DCE(TS)/EEII/AEEVIII/PTCC/220/110 kV MC/MV Transgrid kottayam/2019-20/1109 (and details submitted on 27.10.2021)	01.08.2019
(ii)	BSNL: SR-PTCC/SKL/2562/03	22.05.2021
(iii)	Southern Railway: W.384/3/4/561	23.08.2018
(iv)	Defense: B/46937/Sigs 7(b)/1778	31.10.2019

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 RAGHENDRA PRATAP SINGH
Date: 2021.12.06 10:54:32 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 & Annexure-III
2.	ASTE/S&T	Southern Railway, Head Quarters Office, S&T Branch, Chennai-600003.	Annexure-II
3.	Deputy Chief Engineer (Tech)	KSEBL; O/o Chief Engineer (Transmission South), Vidyuthi Bhavanam, Pattom, Thiruvananthapuram-695004.	Copy for information

MIC

(Annexure - I)

Case No. SKL 2562 **KER: 332B** SSA: Kottayam

Name of the power line: PTCC Proposal for Construction/Upgradation of lines to 220/110 KV MCMV/DC/MC Lines under Transgrid Kottayam

Kottayam-Thuravoor 220 KV DC line

Length: **25** Kms

Average SR value: **30,000 rcm** Type of BSNL cable: PUF

Sl.No.	Name of Telecom line	LOP in KMs	MC in Ohms	FC in Amps	IV in Volts
I ETR	ETTUMANOOR TELEPHONE EXCHANGE				
1	Exge to DP.1				
2	Exge to DP.2				
3	Exge to DP.3				
4	Exge to DP.4				
5	Exge to DP.5				
6	Exge to DP.6				
II KTH	KOTHANALLOR TELEPHONE EXCHANGE				
1	Exge to DP.1				
2	Exge to DP.2				
III KVG	KURUVILANGADU TELEPHONE EXCHANGE				
1.	Exge to DP.1				
2	Exge to DP.2				
3	Exge to DP.3				
4	Exge to DP.4				
5	Exge to DP.5				
6	Exge to DP.6				
7	Exge to DP.7				
IV VYL	VAYALA TELEPHONE EXCHANGE				
1	Exge to DP.1				
2	Exge to DP.2				
3	Exge to DP.3				
V MOP	MONIPPALLY TELEPHONE EXCHANGE				
1	Exge to DP.1				
2	Exge to DP.2				
3	Exge to DP.3				
VI NJR	NJEEZHOOR TELEPHONE EXCHANGE				
1	Exge to DP.1				
2	Exge to DP.2				
VII AYK	AYAMKUDY TELEPHONE EXCHANGE				
1	Exge to DP.1				
2	Exge to DP.2				
3	Exge to DP.3				
4	Exge to DP.4				
VIII KDY	KADUTHURUTHY TELEPHONE EXCHANGE				

IV less than 430V

[Signature]
ANUJ

Asstt. Director-I
Central Office

2	Exge to DP.2				
3	Exge to DP.3				
4	Exge to DP.4				
5	Exge to DP.5				
6	Exge to DP.6				
IX TYP	THALAYOLAPARAMBU TELEPHONE EXCHANGE				
1	Exge to DP.1				
2	Exge to DP.2				
3	Exge to DP.3				
4	Exge to DP.4				
5	Exge to DP.5				
X VAM	VAIKOM TELEPHONE EXCHANGE				
1	Exge to DP.1				
2	Exge to DP.2				
3	Exge to DP.3				

IV less than 430 V

[Signature]
 15/1/2011

सहायक निदेशक-II/Asstt. Director-II
 केन्द्रीय विद्युत् प्राधिकरण/C.E.A.
 विद्युत् मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66

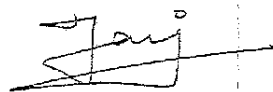
ANNEXURE -II

CEA Case No. : KER-332B Name of the Power line: 220 kV D/C transmission line from Kottayam(Pakalomattom) to Thuravoor under 220/110 kV MCMV Transgrid Kottayam transmission lines package.	Map Scale : 1 cm=500 m Soil Resistivity : 30,000 Ω-cm Total Length : 25 km
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S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
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Southern Railway letter no:- W.384/3/4/561 dated: 23.08.2018

<u>Affected Blocks & Telecom Circuits Details</u>					
1	Piravam Road to Vaikam Road	2.6	0.0004	6787	03
2	Vaikam Road to Kurupanitura	6.4	0.0024	7432	18
3	Kurupanitura to Etamur	5.3	0.0029	8868	26
4	Etamur to Kottayam	Out of parallelism			00
5	Kumbalam to Turavur	Out of parallelism			00
6	Turavur to Chertala	0.3	0.0001	9743	01



तनुज/TANUJ
 सहायक निदेशक-II/Asstt. Director-II
 केन्द्रीय विद्युत प्राधिकरण/C.E.A.
 विद्युत मंत्रालय/Ministry of Power
 भारत सरकार/Govt. of India
 नई दिल्ली/New Delhi-66

Tele : 23019745

KER-332 ?
(Annexure-III)

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

B/46937/Sigs 7(b)/1778/

31 Oct 2019

Kerala State Electricity Board Limited
Office of the Chief Engineer (Transmission South)
Vydyuthi Bhavanam, Pattom
Thiruvananthapuram-695 004, Kerala

CONSTRUCTION OF 220/110KV MCMV LINES UNDER TRANSGRID KOTTAYAM LINE
PACKAGE-SUBMITTING DOCUMENTS FOR PTCC CLEARANCE OF THE ROUTE-REG.

1. Ref your letter No DCE(TS)/EEIII/AEE VIII/PTCC/220/110 KV MC/MV Transgrid kottayam/2019-20/1109 dt 01 Aug 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 (Comm)
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