

I/25478/2022



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. : TN-716		
PTCC approval for 230 kV SC line on DC towers from Arasur (PGCIL) 400/230 KV SS to Ingur 230/110 KV SS.- regd.		
S. No	Reference No.	Dated
(i)	TANTRANSCO: SE/TR-I/EE/TSM/AEE/F.PTCC/D.No 74/dt. 25.11.2022	25.11.2022
(ii)	TANTRANSCO: SE/GCC/CBE/AEE/G1/AE/MM/F.T-1868 Line D/D.No. 791/22	30.12.2022
(iii)	BSNL: Email	29.12.2022
(iv)	Southern Railway: W.384/3/2/1225	30.11.2022

The PTCC proposal submitted vide reference (i) has been examined. The LF induction on communication circuits of Southern Railway with respect to details furnished vide above reference (iv) has been computed. The voltage likely to be induced on paralleling communication circuits of Southern Railway under Single Line to Ground fault condition are enclosed at Annexure-I. The screening factors as applicable have been considered.

DET (PTCC), Southern Zone, BSNL vide above reference (iii) has informed that BSNL telecom details are still awaited from field office. Telecommunication details from Defense are pending.

TANTRANSCO vide above reference (ii) has submitted that the subject transmission line, covered in GEC I corridor, was completed in all respects on 27.10.2022 and now needs to be commissioned by tying up with PGCIL grid at Arasur. TANTRANSCO has submitted the undertaking that in case of any damages incurred, TANTRANSCO will bear the cost and has requested for provisional PTCC approval.

Taking above into consideration, necessary action regarding issuance of provisional PTCC approval for the subject cited transmission line may be taken under intimation to this office. The LF induction on telecom circuits of BSNL and Defense will be communicated after receipt of respective details.

Encl.: As above

Chief Engineer

To,

1.	Divisional Engineer (PTCC), Southern Zone	BSNL, Inspection Circle, 1st Floor, Raj Bhavan Exchange No. 26, Sardar Patel Road, Guindy, Chennai-600032	With a request to provide details of Telecom assets/ NOC at the earliest for IV
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			calculation and issuance of final RAC.
2.	General Manager (S&T)	Southern Railway, Headquarter Office, S&T Branch, Chennai – 600 003	Annexure-I
3.	Superintending Engineer/ Tr-I	5 th floor, TANTRANSCO HQ, 144, Anna Salai, Chennai – 600 002	
4.	Director General of Signals	General Staff Branch, Integrated HQ, MoD (army), Sena Bhawan, DHQ, PO, New Delhi- 110 105	With a request to provide details of Telecom assets/ NOC at the earliest for IV calculation and issuance of final RAC.

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ANNEXURE-I

CEA Case No.: TN-716 Name of the Power line: 230 KV SC line on DC towers from Arasur (PGCIL) 400/230 KV SS to Ingur 230/110 KV SS.			Map Scale : 1 cm= 500 m Total Length : 54 km S.R. Value : 7500 Ohm-cm		
S.No.	Telecom. Details	Length of Parallelism in Km.	Mutual Coupling in Ohms.	Effective Fault current in Amps.	I.V in Volts.
Southern Railway Letter No: W.384/3/2/1225 Date: 30.11.2022					
<u>Affected Blocks & Telecom Circuits Details</u>					
1	Totiyapalayam – Perundurair	Out of Parallelism			0
2	Perundurair – Ingur	Out of Parallelism			0
3	Ingur – Vijayamangalam	8.25	0.03822	10910	417
4	Vijayamangalam – Uttukuli	8.9	0.00635	6614	42
5	Uttukuli - Tiruppur	4.55	0.00077	7792	6
6	Tiruppur – Vanjipalayam	5.15	0.00037	13120	5
7	Vanjipalayam - Somannur	8.35	0.00295	17627	52
8	Somannur – Sular Road	Out of Parallelism			0