

TRAI Assesses Network Quality Across Kochi City

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The Telecom Regulatory Authority of India (TRAI) has released its Independent Drive Test (IDT) findings for the Kochi City, Kerala Licensed Service Area (LSA), covering extensive city and highway routes during the month of July 2025. The drive tests, conducted under the supervision of the TRAI Regional Office, Bengaluru, were designed to capture real-world mobile network performance across diverse usage environments - urban zones, institutional hotspots, public transport hubs, and high-speed corridors.

Between 30th Jun 2025 to 03rd July 2025, TRAI teams conducted detailed tests across Kochi City and surrounding areas including 231.4 Kms of City drive, Coastal drive of 8.3 Kms (Marine Drive Park to Marine Drive Jetty), Walk Test of 8.8 Kms and 08 Hot spots segments. Technologies evaluated included 2G, 3G, 4G, and 5G, reflecting the service experience of users across multiple handset capabilities. The findings of IDT have already been intimated to all Telecom Service Providers (TSPs) concerned for further necessary action.

Key Parameters Assessed:

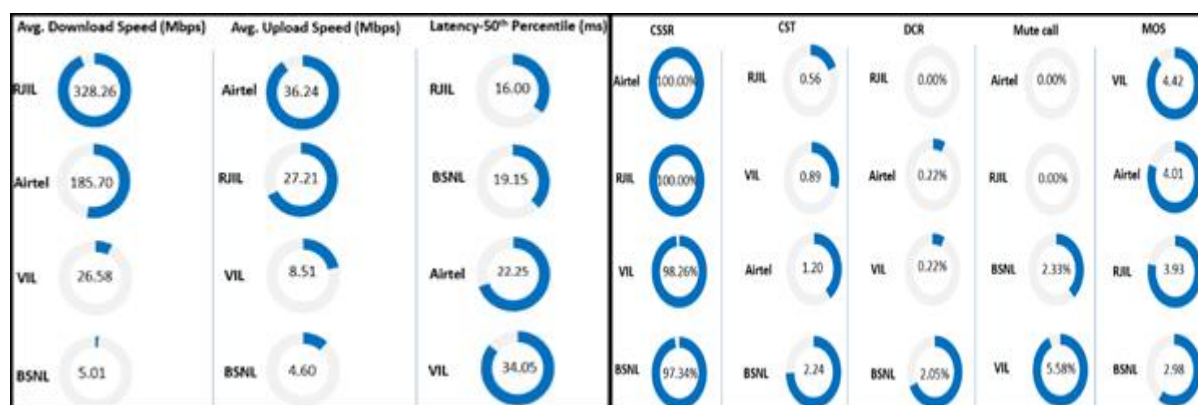
- Voice Services:** Call Setup Success Rate (CSSR), Drop Call Rate (DCR), Call Setup Time, Call Silence Rate, Speech Quality (MOS), Coverage.
- Data Services:** Download/Upload Throughput, Latency, Jitter, Packet Drop Rate, and Video Streaming Delay.

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have 100.00%, 97.34%, 100.00% and 98.26% respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate - Airtel, BSNL, RJIL and VIL have drop call rate of 0.22%, 2.05%, 0.00% and 0.22% respectively in Auto-selection mode (5G/4G/3G/2G).

Summary of Performance against key QoS parameters:

CSSR: Call Setup Success Rate (in %), **CST:** Call Setup Time (in milliseconds), **DCR:** Drop Call Rate (in %) & **MOS:** Mean Opinion Score representing typical voice quality



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Airtel	4G D/L:	33.12	4G U/L:	5.48
	5G D/L:	179.14	5G U/L:	32.16
BSNL	4G D/L:	3.96	4G U/L:	9.06
RJIL	4G D/L:	22.00	4G U/L:	7.73
	5G D/L:	285.03	5G U/L:	17.92
VIL	4G D/L:	12.56	4G U/L:	7.79

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calculated relative to the coefficient of the constant term in the regression equation. The results are presented in Table 1. The first column shows the variable, the second column shows the coefficient, the third column shows the standard error, the fourth column shows the t-statistic, and the fifth column shows the p-value. The results show that the coefficient on the variable "Age" is positive and significant at the 1% level, indicating that older individuals are more likely to be employed. The coefficient on the variable "Gender" is negative and significant at the 1% level, indicating that females are less likely to be employed than males. The coefficient on the variable "Education" is positive and significant at the 1% level, indicating that individuals with higher education are more likely to be employed. The coefficient on the variable "Experience" is positive and significant at the 1% level, indicating that individuals with more experience are more likely to be employed. The coefficient on the variable "Married" is negative and significant at the 1% level, indicating that married individuals are less likely to be employed. The coefficient on the variable "Unemployed" is negative and significant at the 1% level, indicating that individuals who are currently unemployed are less likely to be employed. The coefficient on the variable "Constant" is positive and significant at the 1% level, indicating that the intercept is positive. The results show that the model is a good fit for the data, with an adjusted R-squared value of 0.85.

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In Kochi, the assessment included high-density neighbourhoods like Koonammayu, Nearby North Paravur, Varapuzha, Edavanakkad, Vaduthala, Kakkanad, Perumpilly, South Paravoor, Panambukad Colony, Kumbalam, Ernakulam Junction, Ponnurunni East and Vaduthala etc.

TRAI also evaluated real-world conditions at 08 static hotspots—including Aluva Metro Station, Cochin University, General Hospital, High Court, Info Park, International Airport Kochi, Kaloor Stadium and Wonderla Amusement Park - to reflect stationary user experience.

The Coastal route covered from Marine Drive Park to Marine Drive Jetty, capturing mobile network behaviour in Coastal area.

The walk tests, conducted on 02 July and 03 July 2025, focused on Ernakulam South Railway Station, Fort Kochi, KSRTC Bus Stand, and Marine Drive, capturing mobile network behaviour in crowded pedestrian environments.

The tests were conducted using TRAI-calibrated equipment and standardised protocols in real-time environments. The detailed report is available at TRAI website www.trai.gov.in. For any clarification/information, Shri Brajendra Kumar, Advisor (RO, Bengaluru) TRAI may be contacted on email: adv.bengaluru@trai.gov.in or at Tel. No. +91-80-22865004.

Samrat/Allen

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