

TRAI Assesses Network Quality Across Chitradurga City and Surrounding Area

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The Telecom Regulatory Authority of India (TRAI) released its Independent Drive Test (IDT) findings for the Chitradurga, Karnataka Licensed Service Area (LSA), covering extensive city/highway routes during the month of December 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.

From 02nd December 2025 to 05th December 2025, TRAI teams conducted detailed tests across 401.2 km of Chitradurga City and the surrounding area, including 393.2 km of city drive, 13 hot spots, and an 8.0 km walk test. Technologies evaluated included 2G, 3G, 4G, and 5G, reflecting the service experience of users across multiple handset capabilities. The findings of IDT have been intimated to all the TSPs concerned for further necessary action.

Key Parameters Assessed:

a) Voice Services: Call Setup Success Rate (CSSR), Drop Call Rate (DCR), Call Setup Time, Call Silence Rate, Speech Quality (MOS), and coverage.

b) Data Services: Download/Upload Throughput, Latency, Jitter, Packet Drop Rate, and Video Streaming Delay.

Call Setup Success Rate—Airtel, BSNL, RJIL, and VIL have 97.90%, 79.86%, 96.77%, and 76.10% call setup success rates, respectively, in auto-selection mode (5G/4G/3G/2G).

Drop Call Rate—Airtel, BSNL, RJIL, and VIL have drop call rates of 0.39%, 3.63%, 0.98%, and 2.08%, respectively, in auto-selection mode (5G/4G/3G/2G).

Summary of Performance against Key QoS Parameters

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



Summary-Data services

Data Download performance (Overall): Average download speed of Airtel (5G/4G/2G) is 133.45 Mbps, BSNL (4G/3G/2G) is 9.12 Mbps, RJIL (5G/4G) is 173.99 Mbps and VIL (4G/2G) is 27.21 Mbps.

Data Upload performance (Overall): Average upload speed of Airtel (5G/4G/2G) is 30.77 Mbps, BSNL (4G/3G/2G) is 2.52 Mbps, RJIL (5G/4G) is 15.48 Mbps and VIL (4G/2G) is 13.93 Mbps.

Latency (Overall): Airtel, BSNL, RJIL & VIL 50th percentile latency is 49.64 ms, 57.63 ms, 23.49 ms & 48.09 ms respectively.

Data performance - Hotspots (in Mbps):

Airtel- 4G D/L: 21.15	4G U/L: 9.11
5G D/L: 171.66	5G U/L: 42.18
BSNL- 4G D/L: 13.13	4G U/L: 5.12
RJIL- 4G D/L: 29.76	4G U/L: 9.90
5G D/L: 220.06	5G U/L: 24.01
VIL- 4G D/L: 25.46	4G U/L: 17.64

Note- "D/L" Download speed, "U/L" Upload speed

Summary-Voice services

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have 97.90%, 79.86%, 96.77% and 76.10% call setup success rate respectively in Auto-selection mode (5G/4G/3G/2G).

Call Setup Time: Airtel, BSNL, RJIL & VIL have call setup time of 1.22, 2.86, 0.85 and 2.15 seconds respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.39%, 3.63%, 0.98% and 2.08% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Silence/Mute Rate : Airtel, BSNL, RJIL and VIL have silence call rate of 1.97%, 3.03%, 2.35% and 9.96% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have average MOS of 3.86, 2.68, 4.29 and 3.71 respectively.

In Chitradurga city, the assessment included high-density neighborhoods like Adarsha Nagar, Seebara, Vijapur, Obavanagathihalli, Hunasekatte, Malappanahatty, Shivaganga, Holalkere, Herur, Hosadurga, Madadhakere, Beerenahalli, Hiriya, Aimangala, Kyadiggere, Kalliroppa, Vittala Nagar, Nandanahalli, Madakaripura, Haikal, Challakere, Thalaku, Mustur, Bogalerahatty, G. R. Halli, Pillekerenahalli, etc.

TRAI also evaluated real-world conditions at Challakere Bus Stand, Challakere Taluk Office, Chitradurga District Hospital, Chitradurga KSRTC Bus Stand, Chitradurga RTO Office, District Collector Office Chitradurga, Hiriya Government Hospital, Hiriya KSRTC Bus Stand, Hosadurga Government Hospital, Hosadurga New Bus Stand, Muruga Rajendra Mata, Onake Obavva Stadium Chitradurga, and SJM Institute Of Technology. reflect a stationary user experience.

The walk tests, conducted from 03rd to 05th December 2025 in APMC Market, Chandravalli Kere Park, Chitradurga Fort, and Chitradurga Railway Station, captured mobile network behavior in crowded pedestrian environments.

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

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