



TRAI Assesses Network Quality Across Agra City

Posted On: 27 OCT 2025 11:30AM by PIB Delhi

The Telecom Regulatory Authority of India (TRAI) released its Independent Drive Test (IDT) findings for the UP West Licensed Service Area (LSA), covering extensive City routes during the month of September 2025. The drive tests, conducted under the supervision of the TRAI Regional Office, Delhi, 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 16th September 2025 to 18th September 2025, TRAI teams conducted detailed tests across 245.0 km of City Drive Test, 09 Hotspot locations, 1.0 km of walk test, and Inter Operator Calling at 01 location. 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 the TSPs concerned.

Key Parameters Assessed:

a) **Voice Services:** Call Setup Success Rate (CSSR), Drop Call Rate (DCR), Call Setup Time, Call Silence Rate, Speech Quality (MOS), 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 100.00%, 97.61%, 99.78% and 98.28% Call Setup Success Rate respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate: Airtel, BSNL, RJIL and VIL have Drop Call Rate of 0.00%, 3.34%, 0.00% and 0.00% respectively in Auto-selection mode (5G/4G/3G/2G).

Performance against key QoS parameters

CSSR: Call Setup Success Rate (in %), **CST:** Call Setup Time (in seconds), **DCR:** Drop Call Rate (in %) & **MOS:** Mean Opinion Score.



Summary-Voice services

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have 100.00%, 97.61%, 99.78% and 98.28% 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 1.29, 2.86, 0.65 and 0.72 seconds respectively in Auto-selection mode (5G/4G/3G/2G).

Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.00%, 3.34%, 0.00% and 0/00% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Silence/Mute Rate: Airtel, BSNL, RJIL and VIL have silence call rate of 0.86%, 0.81%, 0.57% and 0.85% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have average MOS of 4.03, 2.50, 3.82 and 4.42 respectively.

Summary-Data services

Data Download performance (Overall): Average download speed of Airtel (5G/4G) is 113.93 Mbps, BSNL (4G/3G/2G) is 5.58 Mbps, RJIL (5G/4G) is 267.70 Mbps and VIL (4G/2G) is 43.30 Mbps.

Data Upload performance (Overall): Average upload speed of Airtel (5G/4G) is 21.59 Mbps, BSNL (4G/3G/2G) is 5.92 Mbps, RJIL (5G/4G) is 29.75 Mbps and VIL (4G/2G) is 14.80 Mbps.

Latency (Overall): Airtel, BSNL, RJIL & VIL 50th percentile latency is 19.60 ms, 24.70 ms, 15.25 ms & 29.15 ms respectively.

Data performance - Hotspots (in Mbps):

Airtel- 4G D/L: 20.06 4G U/L: 7.99

5G D/L: 249.15 5G U/L: 44.71

BSNL- 4G D/L: 5.97 4G U/L: 6.22

RJIL- 4G D/L: 17.63 4G U/L: 8.46

5G D/L: 232.00 5G U/L: 17.13

VIL- 4G D/L: 26.11 4G U/L: 10.91

Note- “D/L” Download speed, “U/L” Upload speed

The assessment in Agra included high-density neighbourhoods such as Sikandra, Lohamandi, Khandari, Agra cantt, Basai, Rohta, Laramda, Rambagh, Midhakur, Korai and Fatehpur Sikri etc. TRAI also evaluated real-world conditions at Agra Bus Stand (Eidgah Bus Stand), Agra Cantt Railway Station, Agra Fort, Dayal Bagh Engineering College Agra, Delhi Public School Agra, District Court, District Hospital, Dr. Bhim Rao Ambedkar University Agra, and Tomb of Akbar.

The walk test, conducted on 18th September 2025 in Agra City, focused on, Taj Mahal, capturing mobile network behaviour in crowded pedestrian environments.

The tests were conducted using TRAI suggested 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 Vivek Khare, Advisor (Regional Office, Delhi) TRAI may be contacted on email: adv.ca@traigov.in or at Tel. No. +91-11-20907772.

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