



TRAI Assesses Network Quality Across Sangareddy City and their adjoining areas in the State of Telangana (under Andhra Pradesh Licensed Service Area)

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The Telecom Regulatory Authority of India (TRAI) released its Independent Drive Test (IDT) findings for the **State of Telangana under Andhra Pradesh** Licensed Service Area (LSA), covering extensive city routes of **Sangareddy** City in the month of October 2025. The drive tests conducted under the supervision of the TRAI Regional Office, Hyderabad, were designed to capture real-world mobile network performance across diverse usage environments- Urban Zones, Institutional Hotspots, rural residential areas etc.

Between 7th October 2025 to 9th October 2025, TRAI teams conducted detailed tests for 355.0Kms Sangareddy City drive test, and 5 Hotspot locations. Technologies evaluated included 2G, 3G, 4G, and 5G, reflecting the service experience of users across multiple handset capabilities. The findings of the IDT have been intimated to all the TSPs concerned.

Key Parameters Assessed:

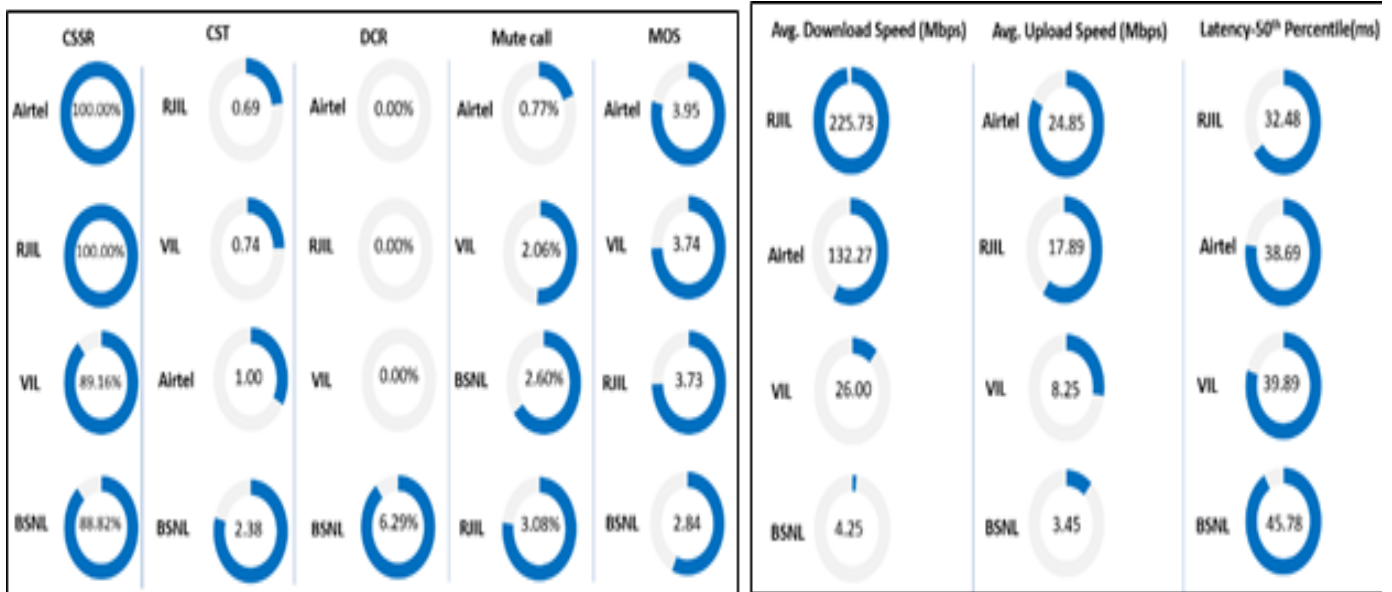
- a) **Voice Services:** Call Setup Success Rate (CSSR), Drop Call Rate (DCR), Call Setup Time, Call Silence Rate, Speech Quality (MOS), Coverage.
- b) **Data Services:** Download/Upload Throughput, Latency, Jitter, Packet Drop Rate, and Video Streaming Delay.

The overall mobile network performance in Hyderabad - Nizamabad NH, Nizamabad city is summarized below:

Call Setup Success Rate - Airtel, BSNL, RJIL and VIL have 100.00%, 88.82%, 100.00% and 89.16% call setup success rate respectively in auto-selection mode (5G/4G/3G/2G).

Drop Call Rate - Airtel, BSNL, RJIL and VIL drop call rate is 0.00%, 6.29%, 0.00% and 0.00% respectively in auto-selection mode (5G/4G/3G/2G).

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%, 88.82%, 100.00% and 89.16% call setup success rate respectively in Auto-selection mode (5G/4G/3G/2G).

Call Setup Time: Airtel, BSNL, RJIL and VIL have call setup time of 1.00, 2.38, 0.69 and 0.74 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%, 6.29%, 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 0.77%, 2.60%, 3.08% and 2.06% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have average MOS of 3.95, 2.84, 3.73 and 3.74 respectively.

Summary-Data services

Data Download performance (Overall): Average download speed of Airtel (5G/4G) is 132.27 Mbps, BSNL (4G/3G/2G) is 4.25 Mbps, RJIL (5G/4G) is 225.73 Mbps and VIL (4G/2G) is 26.00 Mbps.

Data Upload performance (Overall): Average upload speed of Airtel (5G/4G) is 24.85 Mbps, BSNL (4G/3G/2G) is 3.45 Mbps, RJIL (5G/4G) is 17.89 Mbps and VIL (4G/2G) is 8.25 Mbps.

Latency (Overall): Airtel, BSNL, RJIL & VIL 50th percentile latency is 38.69 ms, 45.78 ms, 32.48 ms & 39.89 ms respectively.

Data performance - Hotspots (in Mbps):

Airtel- 4G D/L: 42.73 4G U/L: 14.98

5G D/L: 159.20 5G U/L: 43.40

BSNL- 4G D/L: 7.43 4G U/L: 6.95

RJIL- 4G D/L: 88.89 4G U/L: 11.55

5G D/L: 408.70 5G U/L: 30.01

VIL- 4G D/L: 16.32 4G U/L: 7.71

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

In Sangareddyb City, the assessment included the areas nearby Nearby Gajwel, Kuknorpalle, Duddeda, Siddipet, Ramayapet, Machavaram, Papannapet, Muslapur, Sangupet, Kandi, Zaheerabad, Aroor, Patancheruvu, Narsapur, Thunki, Kulcharam etc.

TRAI also evaluated real-world conditions at 1. Gajwel Bus Stand 2. Govt Hospital Narsapur 3. Medak Bus Stand 4. Sangareddy Bus Stand 5. Siddipet Collector Office

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 B. Praveen Kumar, Advisor (Regional Office, Hyderabad) TRAI may be contacted on email: adv.hyderabad@traigov.in or at Tel. No. +91-40-23000761.

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