



TRAI Assesses Network Quality Across Hyderabad – Visakhapatnam Rail and Visakhapatnam – Vijayawada Highway in the State of Andhra Pradesh (under Andhra Pradesh Licensed Service Area)

Posted On: 29 OCT 2025 5:49PM by PIB Delhi

The Telecom Regulatory Authority of India (TRAI) released its Independent Drive Test (IDT) findings for the **Andhra Pradesh Licensed Service Area (LSA)**, covering extensive routes of **Hyderabad – Visakhapatnam Rail and Visakhapatnam – Vijayawada Highway** in the month of September 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 3rd September 2025 to 4th September 2025, TRAI teams conducted detailed tests for 695.7 Kms **Hyderabad – Visakhapatnam Rail and 363.2 kms Visakhapatnam – Vijayawada Highway** drive test. 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 – Visakhapatnam Rail and Visakhapatnam – Vijayawada Highway** is summarized below:

Call Setup Success Rate - Airtel, BSNL, RJIL and VIL have 98.91%, 49.02%, 95.79% and 91.61% 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%, 17.60%, 0.37% and 1.10% respectively in auto-selection mode (5G/4G/3G/2G)



Summary-Data services

Data Download performance (Overall): Average download speed of Airtel (5G/4G/2G) is 106.60 Mbps, BSNL (4G/3G/2G) is 5.98 Mbps, RJIL (5G/4G) is 172.40 Mbps and VIL (5G/4G/2G) is 31.14 Mbps.

Data Upload performance (Overall): Average upload speed of Airtel (5G/4G/2G) is 15.10 Mbps, BSNL (4G/3G/2G) is 4.39 Mbps, RJIL (5G/4G) is 13.49 Mbps and VIL (5G/4G/2G) is 6.58 Mbps.

Latency (Overall): Airtel, BSNL, RJIL and VIL 50th percentile latency is 24.30ms, 25.10ms, 27.75ms, 35.90 ms.

Summary-Voice services

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have 98.91%, 49.02%, 95.79% and 91.61%, 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 1.12, 4.01, 1.05 and 1.03 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%, 17.60%, 0.37% and 1.10% respectively in Auto-selection mode (5G/4G/3G/2G).

Call Silence/Mute Rate: Airtel, BSNL, RJIL and VIL have silence call rate of 0.00%, 2.88%, 3.00% and 3.06% respectively in packet switched network (4G/5G).

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have average MOS of 3.93, 2.43, 3.82 and 3.85 respectively.

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

In Hyderabad – Visakhapatnam Rail the assessment included the areas of Hyderabad – Visakhapatnam Rail passing through Pagidipalli, Warangal, Khammam, Motumari, Vijayawada, Eluru, Rajahmundry, Timmapuram and Samalkot etc.

In Visakhapatnam to Vijayawada Highway passing through kasimkota, Regupalem, Nakkapalli, Prathipadu, Rajanagaram, Dubacheria, Hanuman Junction, Gannavaram and Ramavarapadu etc.

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@traai.gov.in or at Tel. No. +91-40-23000761.

Samrat/Allen

(Release ID: 2183869) Visitor Counter : 136
Read this release in: Urdu