

Information Note to the Press (Press Release No ..9.3./2025)

**TELECOM REGULATORY AUTHORITY OF INDIA**  
**Regional Office Bhopal, .....15..September 2025**  
For Immediate release Website: - www.trai.gov.in

**TRAI Assesses Network Quality of Mobile Service Operators across Kanpur and Unnao Cities and Prayagraj to Lucknow Highway UPE LSA.**

**Release of findings of Independent Drive Tests (IDT)**

The Telecom Regulatory Authority of India (TRAI) has conducted Independent Drive Tests (IDT) covering Kanpur and Unnao Cities and Prayagraj to Lucknow Highway of Uttar Pradesh East LSA during the month of August 2025. The IDT have been designed to capture real-world mobile network performance across diverse usage environments –Urban zones, hotspots, public transport hubs, etc.

2. TRAI, through its appointed agency, conducted detailed drive tests of 356.1 Kms of City test and 4.8 kms of walk test in Kanpur and Unnao Cities and 196.8 Kms of Highway test from Prayagraj to Lucknow between 4<sup>th</sup> to 8<sup>th</sup> August 2025. 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), Coverage.

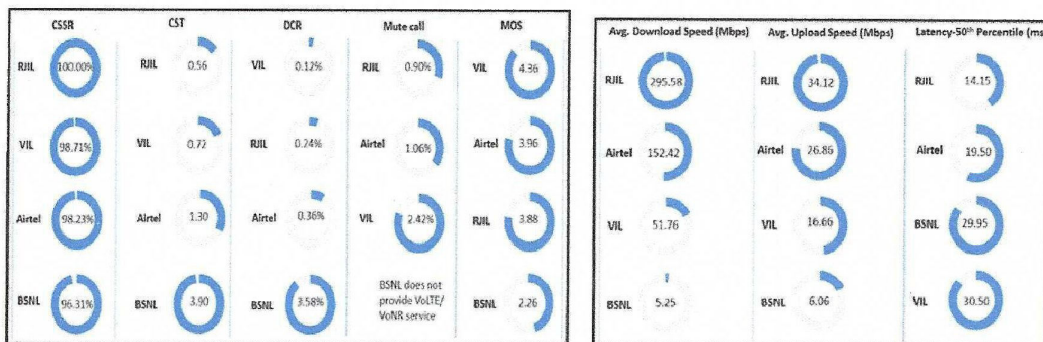
b) Data Services: Download/Upload Throughput, Latency, Jitter, Packet Drop Rate, and Video Streaming Delay.

Call Setup Success Rate - Airtel, BSNL, RJIL and VIL have 98.23%, 96.31%, 100% and 98.71% 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 0.36%, 3.58%, 0.24% and 0.12% 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 seconds), **DCR:** Drop Call Rate (in %) & **MOS:** Mean Opinion Score.



1  
As  
15/9/25

#### Summary-Voice services

**Call Setup Success Rate:** Airtel, BSNL, RJIL and VIL have call setup success rate of 98.23 %, 96.31%, 100.00% and 98.71% respectively in Auto-selection mode (5G/4G/3G/2G).

**Call Setup Time:** Airtel, BSNL, RJIL & VIL have call setup time of 1.30, 3.90, 0.56 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 0.36%, 3.58%, 0.24% and 0.12% respectively in Auto-selection mode (5G/4G/3G/2G).

**Call Silence/Mute Rate:** Airtel, RJIL and VIL have silence call rate of 1.06%, 0.90% and 2.42% respectively in packet switched network (4G/5G).

**Mean Opinion Score (MOS):** Airtel, BSNL, RJIL and VIL have average MOS 3.96, 2.26, 3.88 and 4.36 respectively.

#### Summary-Data services

**Data Download performance (Overall):** Average download speed of Airtel (5G/4G) is 152.42 Mbps, BSNL (4G/3G/2G) is 5.25 Mbps, RJIL (5G/4G) is 295.58 Mbps and VIL (4G/2G) is 51.76 Mbps.

**Data Upload performance (Overall):** Average upload speed of Airtel (5G/4G) is 26.86 Mbps, BSNL (4G/3G/2G) is 6.06 Mbps, RJIL (5G/4G) is 34.12 Mbps and VIL (4G/2G) is 16.66 Mbps.

**Latency (Overall):** Airtel, BSNL, RJIL and VIL 50<sup>th</sup> percentile latency is 19.50 ms, 29.95 ms, 14.15 ms and 30.50 ms respectively.

#### Data performance - Hotspots (in Mbps):

Airtel- 4G D/L: 38.40	4G U/L: 6.44
5G D/L: 144.12	5G U/L: 35.63
BSNL- 4G D/L: 6.47	4G U/L: 11.83
RJIL- 4G D/L: 74.00	4G U/L: 16.46
5G D/L: 244.62	5G U/L: 23.69
VIL- 4G D/L: 33.67	4G U/L: 16.65

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

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](http://www.trai.gov.in). For any clarification/information, Shri Sanjay Kumar Gupta, Advisor (Regional Office, Bhopal) TRAI may be contacted on email: [adv.bhopal@trai.gov.in](mailto:adv.bhopal@trai.gov.in) or at Tel. No. +91-755-2575501.

(.....)  
Advisor, RO. BHO PAL TRAI