

TELECOM REGULATORY AUTHORITY OF INDIA

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For Immediate release

Website: - www.trai.gov.in

TRAI Assesses Network Quality of Mobile Service Operators across Durg and Bhilai Cities, Raipur to Jagdalpur highway and Bhopal to Ratlam Railway Route MP LSA.

Release of findings of Independent Drive Tests (IDT)

The Telecom Regulatory Authority of India (TRAI) has conducted Independent Drive Tests (IDT) covering Durg and Bhilai Cities, Raipur to Jagdalpur highway and Bhopal to Ratlam Railway Route in MP LSA of Madhya Pradesh LSA during the month of November 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 357.4 Kms of City test and 4.7 kms of walk test in Durg and Bhilai Cities City between 19th to 22nd November 2025 and 297.8 Kms of Highway Drive from Raipur to Jagdalpur on 17th November 2025 and 280.7 Kms of Railway Route from Bhopal to Ratlam on 25th November 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 95.44%, 85.31%, 100 % and 96.31% 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 0.57%, 3.56%, 0.45% and 1.46% respectively in Auto-selection mode (5G/4G/3G/2G).

Poor signal strength level has been observed on 0.87%, 2.36%, 0.87% & 3.18% of the route covered during the drive test for Airtel, BSNL, VIL and RJIL correspondingly for city drive.

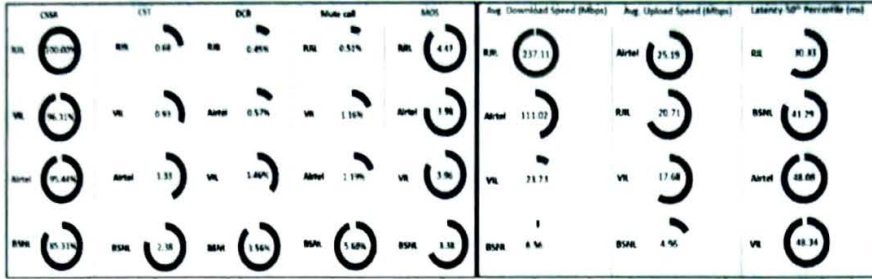
Poor signal strength level has been observed on 20.86%, 26.29%, 7.16% & 24.58% of the route covered during the drive test for Airtel, BSNL, VIL and RJIL correspondingly for highway drive.

Poor signal strength level has been observed on 6.92%, 33.98%, 2.70% & 10.77% of the route covered during the drive test for Airtel, BSNL, VIL and RJIL correspondingly for railway drive.

Summary of Performance against key QoS parameters


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

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Summary-Voice services	Summary-Data services												
<p>Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have 95.44%, 85.31%, 100.00% and 96.31% call setup success rate respectively in Auto-selection mode (5G/4G/3G/2G).</p> <p>Call Setup Time: Airtel, BSNL, RJIL and VIL have call setup time of 1.33, 2.38, 0.68 and 0.93 seconds respectively in Auto-selection mode (5G/4G/3G/2G).</p> <p>Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.57%, 3.56%, 0.45% and 1.46% respectively in Auto-selection mode (5G/4G/3G/2G).</p> <p>Call Silence/Mute Rate: Airtel, BSNL, RJIL and VIL have silence call rate of 1.19%, 5.69%, 0.34% and 1.16% respectively in packet switched network (4G/5G).</p> <p>Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have average MOS of 3.98, 3.38, 4.47 and 3.96 respectively.</p>	<p>Data Download performance (Overall): Average download speed of Airtel (5G/4G/2G) is 111.02 Mbps, BSNL (4G/3G/2G) is 6.56 Mbps, RJIL (5G/4G) is 237.11 Mbps and VIL (4G/2G) is 23.73 Mbps.</p> <p>Data Upload performance (Overall): Average upload speed of Airtel (5G/4G/2G) is 25.19 Mbps, BSNL (4G/3G/2G) is 4.96 Mbps, RJIL (5G/4G) is 20.71 Mbps and VIL (4G/2G) is 17.68 Mbps.</p> <p>Latency (Overall): Airtel, BSNL, RJIL and VIL 50th percentile latency is 48.08 ms, 41.29 ms, 30.33 ms & 48.34 ms respectively.</p> <p>Data performance - Hotspots (in Mbps):</p> <table> <tr> <td>Airtel- 4G D/L: 33.93</td><td>4G U/L: 7.21</td></tr> <tr> <td>5G D/L: 172.39</td><td>5G U/L: 40.51</td></tr> <tr> <td>BSNL- 4G D/L: 11.43</td><td>4G U/L: 4.67</td></tr> <tr> <td>RJIL- 4G D/L: 55.15</td><td>4G U/L: 15.18</td></tr> <tr> <td>5G D/L: 259.24</td><td>5G U/L: 15.61</td></tr> <tr> <td>VIL- 4G D/L: 24.08</td><td>4G U/L: 12.63</td></tr> </table> <p>Note- "D/L" Download speed, "U/L" Upload speed</p>	Airtel- 4G D/L: 33.93	4G U/L: 7.21	5G D/L: 172.39	5G U/L: 40.51	BSNL- 4G D/L: 11.43	4G U/L: 4.67	RJIL- 4G D/L: 55.15	4G U/L: 15.18	5G D/L: 259.24	5G U/L: 15.61	VIL- 4G D/L: 24.08	4G U/L: 12.63
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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. For any clarification/information, Shri Sanjay Kumar Gupta, Advisor (Regional Office, Bhopal) TRAI may be contacted on email: adv.bhopal@trai.gov.in or at Tel. No. +91-755-2575501.


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