

TELECOM REGULATORY AUTHORITY OF INDIA
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For Immediate Release

TRAI Assesses Network Quality Across Brahmapur City and their adjoining areas in the State of Odisha (under Odisha Licensed Service Area)

The Telecom Regulatory Authority of India (TRAI) released its Independent Drive Test (IDT) findings for the **Odisha** Licensed Service Area (LSA), covering extensive city of Brahmapur City in the month of December 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 16th December 2025 to 18th December 2025, TRAI teams conducted detailed tests for 360 Kms Brahmapur City drive test, 4.1 Km Walk test and 8 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.

The overall mobile network performance in Brahmapur city is summarized below:

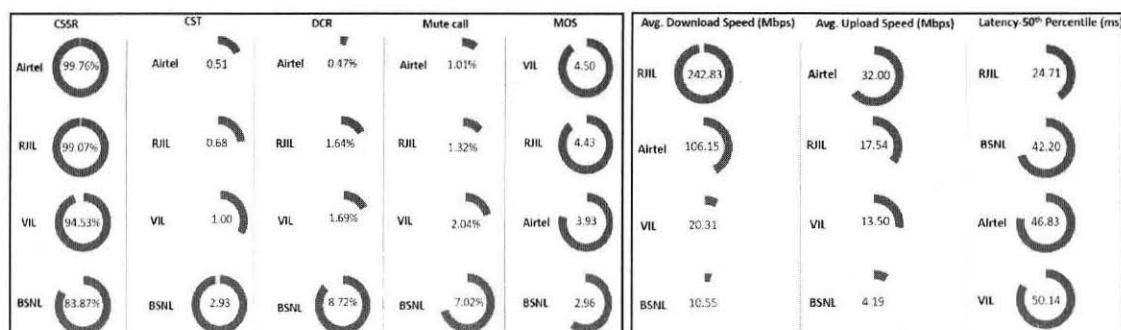
Airtel, BSNL, RJIL and VIL have 99.76%, 83.87%, 99.07% and 94.53% call setup success rate respectively in Auto-selection mode (5G/4G/3G/2G).

The poor Signal Strength in auto-selection mode (5G/4G/3G/2G) during voice testing has been observed as 3.73%, 23.40%, 3.96% & 12.58% in the city IDT route in case of Airtel, BSNL, RJIL & VIL respectively

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

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



Summary-Voice services	Summary-Data services												
<p>Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have 99.76%, 83.87%, 99.07% and 94.53% call setup success rate respectively in Auto-selection mode (5G/4G/3G/2G).</p>	<p>Data Download performance (Overall): Average download speed of Airtel (5G/4G) is 106.15 Mbps, BSNL (4G/3G/2G) is 10.55 Mbps, RJIL (5G/4G) is 242.83 Mbps and VIL (4G/2G) is 20.31 Mbps.</p>												
<p>Call Setup Time: Airtel, BSNL, RJIL and VIL have call setup time of 0.51, 2.93, 0.68 and 1.00 seconds respectively in Auto-selection mode (5G/4G/3G/2G).</p>	<p>Data Upload performance (Overall): Average upload speed of Airtel (5G/4G) is 32.00 Mbps, BSNL (4G/3G/2G) is 4.19 Mbps, RJIL (5G/4G) is 17.54 Mbps and VIL (4G/2G) is 13.50 Mbps.</p>												
<p>Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.47%, 8.72%, 1.64% and 1.69% respectively in Auto-selection mode (5G/4G/3G/2G).</p>	<p>Latency (Overall): Airtel, BSNL, RJIL and VIL 50th percentile latency is 46.83 ms, 42.20 ms, 24.71 ms & 50.14 ms respectively.</p>												
<p>Call Silence/Mute Rate: Airtel, BSNL, RJIL and VIL have silence call rate of 1.01%, 7.02%, 1.32 and 2.04% respectively in packet switched network (4G/5G).</p>	<p>Data performance - Hotspots (in Mbps):</p> <table> <tbody> <tr> <td>Airtel- 4G D/L: 54.15</td> <td>4G U/L: 5.61</td> </tr> <tr> <td>5G D/L: 148.09</td> <td>5G U/L: 23.68</td> </tr> <tr> <td>BSNL- 4G D/L: 10.77</td> <td>4G U/L: 5.19</td> </tr> <tr> <td>RJIL- 4G D/L: 40.77</td> <td>4G U/L: 5.42</td> </tr> <tr> <td>5G D/L: 333.47</td> <td>5G U/L: 14.53</td> </tr> <tr> <td>VIL- 4G D/L: 26.71</td> <td>4G U/L: 19.51</td> </tr> </tbody> </table>	Airtel- 4G D/L: 54.15	4G U/L: 5.61	5G D/L: 148.09	5G U/L: 23.68	BSNL- 4G D/L: 10.77	4G U/L: 5.19	RJIL- 4G D/L: 40.77	4G U/L: 5.42	5G D/L: 333.47	5G U/L: 14.53	VIL- 4G D/L: 26.71	4G U/L: 19.51
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<p>Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have average MOS of 3.93, 2.96, 4.43 and 4.50 respectively.</p>	<p>The poor Signal Strength in auto-selection mode (5G/4G/3G/2G) during voice testing has been observed as 3.73%, 23.40%, 3.96% & 12.58% in the city IDT route in case of Airtel, BSNL, RJIL & VIL respectively.)</p>												
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In Brahmapur City, the assessment included the areas nearby Ralaba, Golanthara, Girisola, Chikiti, Bendalia, Pathara, Chatrapur, Arjyapalli Aryapalli, Ganjam, Humma, Khandadiuli, Purusottampur, Kavisuryanagar, Baragam, Burupada, Sheragada, Pattapur, Digapahandi etc.

Walk test at Brahmapur Railway Station and Gopalpur Sea Beach

TRAI also evaluated real-world conditions at 1. Brahmapur New Bus Stand 2. District Collector Office Brahmapur 3. Govt Science College Chatrapur 4. MKCG Medical College Brahmapur 5. Municipal Corporation Office Brahmapur 6. Rock Garden Brahmapur 7. RTO Office Chatrapur 8. Shree Maa Budhi Thakurani Temple in Brahmapur City to reflect stationary user experience.

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

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