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For Immediate Release

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

The Telecom Regulatory Authority of India (TRAI) released its Independent Drive Test (IDT) findings for the **Tamil Nadu** Licensed Service Area (LSA), covering extensive city of **Trichy** 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 09th December 2025 to 12th December 2025, TRAI teams conducted detailed tests for 371.3 Kms Trichy City drive test, 5.1 Km Walk test and 7 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.

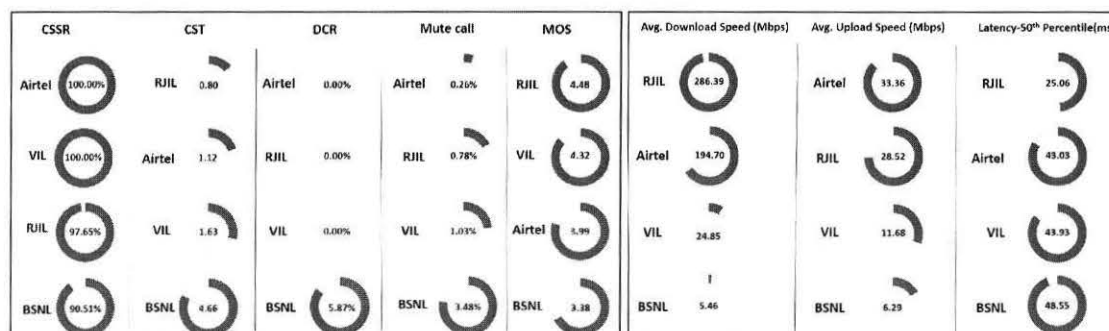The overall mobile network performance in Trichy city is summarized below:

Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have 100.00%, 90.51%, 97.65% and 100.00% 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 0.39%, 10.48%, 0.96% & 2.99% 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.

The poor Signal Strength in auto-selection mode (5G/4G/3G/2G) during data testing has been observed as 6.45%, 11.74%, 6.07% & 6.73% in the city IDT route in case of Airtel, BSNL, RJIL & VIL respectively

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

CSSR		CST		DCR		Mute call		MOS		Avg. Download Speed (Mbps)		Avg. Upload Speed (Mbps)		Latency-50th Percentile(ms)	
Airtel	100.00%	RJIL	0.80	Airtel	0.00%	Airtel	0.26%	RJIL	4.48	RJIL	286.39	Airtel	33.36	RJIL	25.06
VIL	100.00%	Airtel	1.12	RJIL	0.00%	RJIL	0.78%	VIL	4.32	Airtel	194.70	RJIL	28.52	Airtel	43.03
RJIL	97.65%	VIL	1.63	VIL	0.00%	VIL	1.03%	Airtel	3.99	VIL	24.85	VIL	11.68	VIL	43.93
BSNL	90.51%	BSNL	4.66	BSNL	5.87%	BSNL	3.48%	BSNL	3.38	BSNL	5.46	BSNL	6.29	BSNL	48.55

Summary-Voice services	Summary-Data services
Call Setup Success Rate: Airtel, BSNL, RJIL and VIL have 100.00%, 90.51%, 97.65% and 100.00% call setup success rate respectively in Auto-selection mode (5G/4G/3G/2G).	**Data Download performance (Overall):** Average download speed of Airtel (5G/4G) is 194.70 Mbps, BSNL (4G/3G/2G) is 5.46 Mbps, RJIL (5G/4G) is 286.39 Mbps and VIL (4G/2G) is 24.85 Mbps.
Call Setup Time: Airtel, BSNL, RJIL & VIL have call setup time of 1.12, 4.66, 0.80 and 1.63 seconds respectively in Auto-selection mode (5G/4G/3G/2G).	**Data Upload performance (Overall):** Average upload speed of Airtel (5G/4G) is 33.36 Mbps, BSNL (4G/3G/2G) is 6.29 Mbps, RJIL (5G/4G) is 28.52 Mbps and VIL (4G/2G) is 11.68 Mbps.
Drop Call Rate: Airtel, BSNL, RJIL and VIL have drop call rate of 0.00%, 5.87%, 0.00% and 0.00% respectively in Auto-selection mode (5G/4G/3G/2G).	**Latency (Overall):** Airtel, BSNL, RJIL and VIL 50th percentile latency is 43.03 ms, 48.55 ms, 25.06 ms, 43.93 ms respectively.

Call Silence/Mute Rate: Airtel, BSNL, RJIL and VIL have silence call rate 0.26%, 3.48%, 0.78% and 1.03% respectively in packet switched network (4G/5G).	**Data performance - Hotspots (in Mbps):**
	Airtel- 4G D/L: 31.50 4G U/L: 6.69
	          5G D/L: 254.33 5G U/L: 31.13
	BSNL- 4G D/L: 4.55 4G U/L: 8.49
	RJIL- 4G D/L: 54.15 4G U/L: 9.49
	         5G D/L: 375.03 5G U/L: 26.67
	VIL- 4G D/L: 24.87 4G U/L: 15.58

Mean Opinion Score (MOS): Airtel, BSNL, RJIL and VIL have average MOS of 3.99, 3.38, 4.48 and 4.32 respectively	
Poor Signal strength: Airtel, BSNL, RJIL and VIL have been observed 0.39%, 10.48%, 0.96% & 2.99% respectively for the route covered in auto-selection mode (5G/4G/3G/2G)	**Poor Signal strength:** Airtel, BSNL, RJIL and VIL have been observed 6.45%, 11.74%, 6.07% & 6.73% respectively for the route covered in auto-selection mode (5G/4G/3G/2G) **Note- "D/L" Download speed, "U/L" Upload speed**

In Trichy City, the assessment included the areas nearby Sethurapatti, Manikandam, Mannarpuram, MGR Nagar, Kulathur, Thuvakudi, Palpannai Junction, Lalgudi Road, Puvalur, Madakudi, Thiruppangali North, Tiruchirapalli Salem Main Road, Kulithalai, Kulumani and Sannasipatty etc.

Walk test at Trichy Sri Ranganatha Swamy Temple and Trichy Central Railway Station.

TRAI also evaluated real-world conditions at 1. Arulmigu Jambukeswarar Temple 2. District Collector Office Trichy 3. IIM Trichy Library 4. Mahatma Gandhi Memorial Government Hospital 5. NIT Trichy 6. Trichy Airport 7.Trichy Central Bus Stand in Trichy 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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