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TELECOM REGULATORY AUTHORITY OF INDIA

www.trai.gov.in

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For Immediate Release

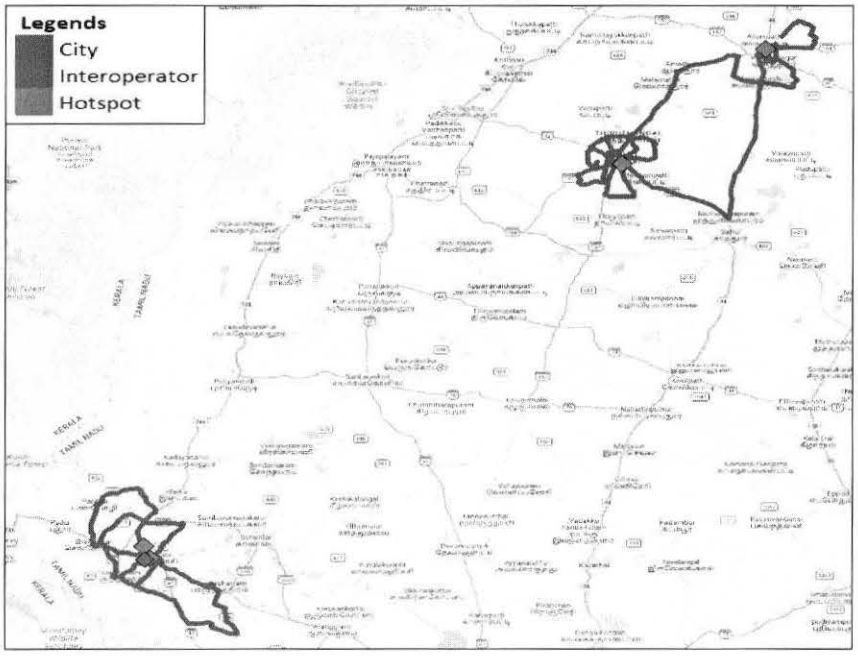
TRAI Assesses Mobile Network Quality Across, city drive in Virudnagar and Tenkasi districts on Tamil Nadu LSA.

The Telecom Regulatory Authority of India (TRAI) has released findings of Independent Drive Test (IDT) conducted across city drive in Virudnagar and Tenkasi districts in Tamil Nadu LSA., during the month of June 2026, for information of general telecom consumers. The purpose of this drive test is to assess and verify real time quality of mobile network services (both voice & data) provided by Telecom Service Providers (TSPs). During the IDT, TRAI captures performance of TSPs for key Quality of Service (QoS) parameters like Coverage, Call Drop Rate (CDR), Call Setup Success Rate (CSSR), data Download (DL) and Upload (UL) throughput etc., which are then published to inform Consumers and encourage TSPs to improve their services.

2. These IDTs have been designed to capture on ground mobile network performance of all TSPs across diverse usages environment like cities, hotspots, public transport hubs, etc. In this type of drive testing, live data and voice sessions are established using SIM cards from all TSPs over 2G, 3G, 4G, and 5G networks. Multiple advanced test handsets are used, and the sessions are monitored and analysed in real-time using advanced Software Systems.

3. TRAI, through its appointed agency, conducted drive tests across City drive 273.1 Kms, Hotspot locations 4 in Virudnagar and Tenkasi districts in Tamil Nadu LSA during 16th June 2026 to 18th June 2026 in Tamil Nadu LSA. These tests were conducted under the supervision of the TRAI Regional Office Hyderabad. The observations presented in drive test reports represent the performance of the TSPs on the area/ route under test on the day/ time of conducting the drive test.

4. Drive Test Route Map: The following map provides overview of drive test routes indicating City drive, Inter-operator calling, Hotspots and Walk tests, as per the legends shown on the map:-



5. Key Parameters Assessed

a) Coverage Gap: Percentage of samples, for which signal strength observed less than the minimum prescribed signal strength for respective technology (2G/ 3G/ 4G/ 5G).
b) Voice Services: Call Setup Success Rate (CSSR), Drop Call Rate (DCR), Call Setup Time, Call Silence Rate, Speech Quality (MOS).
c) Call Silence Instance: Number of call silence instance occurred during the calls.
d) Data Servies: Download/ Upload Throughput, Latency, Jitter, Packet Drop Rate

6. The overall mobile network performance in Hyderabad for the key parameters has been summarised below:-

a) Coverage Gap – (i) The signal strength observed during voice testing on the drive test route in auto-selection mode (5G/4G/3G/2G), measured as the number of samples having poor signal strength out of the total samples collected, was 456/41110 for Airtel, 3466/40362 for BSNL, 911/ 39132 for RJIL and 1552/ 40918 for VIL. Details of the coverage gaps have been provided in the map Annexed.

(ii) The signal strength observed during voice testing on the drive test route in auto-selection mode (5G/4G/3G/2G), measured as the number of samples having Limited service (No Coverage) out of the total samples collected, was 0/41110 for Airtel, 201/40362 for BSNL, 0/39132 for RJIL and 2/376 for VIL. Details of the coverage gaps have been provided in the map Annexed.

b) Dropped Calls - Dropped calls, measured as the number of dropped calls out of the number of successfully established calls, were 0/367 for Airtel, 5/331 for BSNL, 0/344 for RJIL and 2/376 for VIL Details of the dropped call locations have been provided in the map Annexed.

c) Call Silence Instance - Call silence instances, measured as the total number of silence instances observed for > 3 seconds out of the total calls established, were 3/349 for Airtel, 32/332 for BSNL 8/353 RJIL and 4/366 for VIL. Details of the call silence instance locations have been provided in the map Annexed.

d) Data Download and Upload Throughput:
   i) Data Download performance (Overall): Average download speed was observed as 157.73 Mbps for Airtel (5G/4G), 6.25 Mbps for BSNL (3G), 275.96 Mbps for RJIL (5G/4G) and 26.36 Mbps for VIL (5G/4G/2G). Detail of Download throughput has been provided in the map Annexed.

   ii) Data Upload performance (Overall): Average upload speed was observed as 21.94 Mbps for Airtel (5G/4G), 2.98 Mbps for BSNL (3G), 19.06 Mbps for RJIL (5G/4G) and 12.46 Mbps for VIL (5G/4G/2G). Detail of Upload throughput has been provided in the map Annexed.

Locations of Dropped Calls and Call Silence instances can be seen by clicking red dot on the map Annexed.

7. Details of drive test route and area covered during the IDT is as under:-

City

Virudhunagar, Sivakasi & Tenkasi city and Nearby areas: - Allampatti, misalur, Koorakikundu, Muthulingapuram, Sivakasi, Thiruthangal, Achampudur, Panboli, Shenkottai, Courtallam, Thiraviya Nagar, Veikalipatty, Pavoorchatram, Tenkasi, Ayikudy and Elathur etc.

Hotspots: 1.Kaasi Vishwanathar Temple - Tenkasi ,2. Sivakasi Bus Stand 3. Tenkasi New Bus Stand 4. Virudhunagar New Bus Stand

8. The findings of this IDT report have been shared with respective TSPs for taking further necessary action at their end. Detailed reports of IDT are made available on the TRAI website at www.trai.gov.in. For any clarification or additional information, an email can be sent to adv.hydreabad@trai.gov.in or Regional Office of TRAI can be contacted on telephone no. 040-23000761.

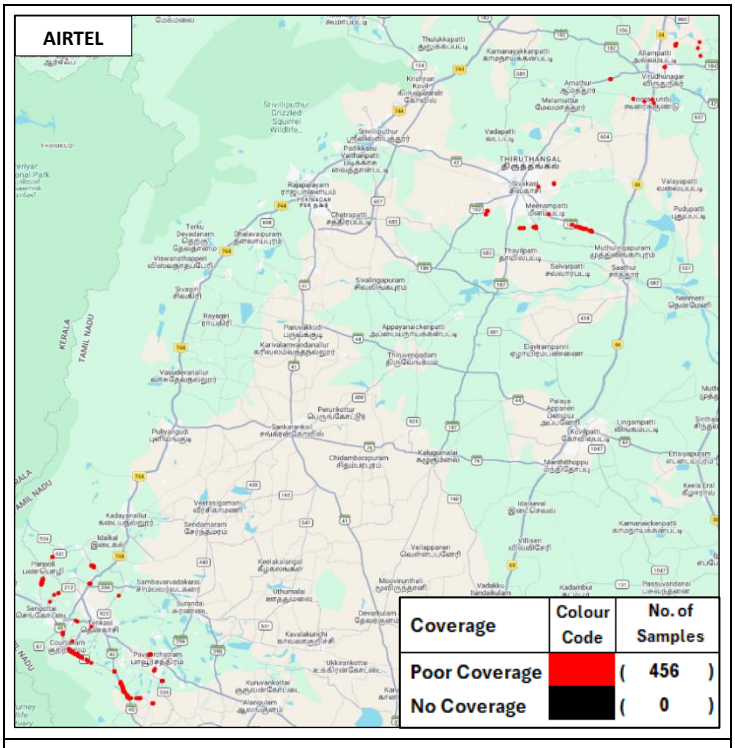
B. Praveen Kumar
Advisor, RO Hyderabad

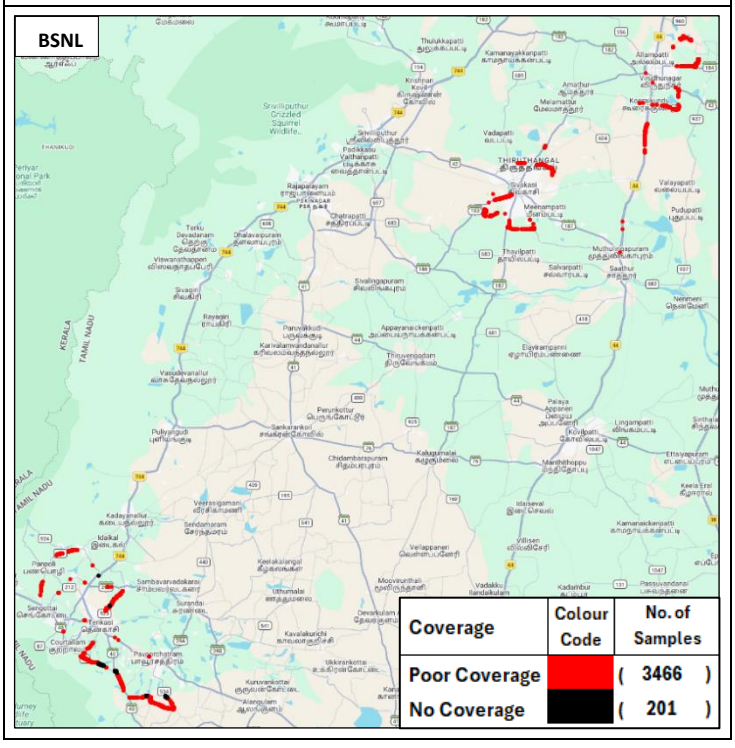
a) **Coverage Gap** – The coverage distribution found less than the minimum specified signal strength for the drive test route in auto-selection mode (5G/4G/3G/2G) during voice testing, is as below: -

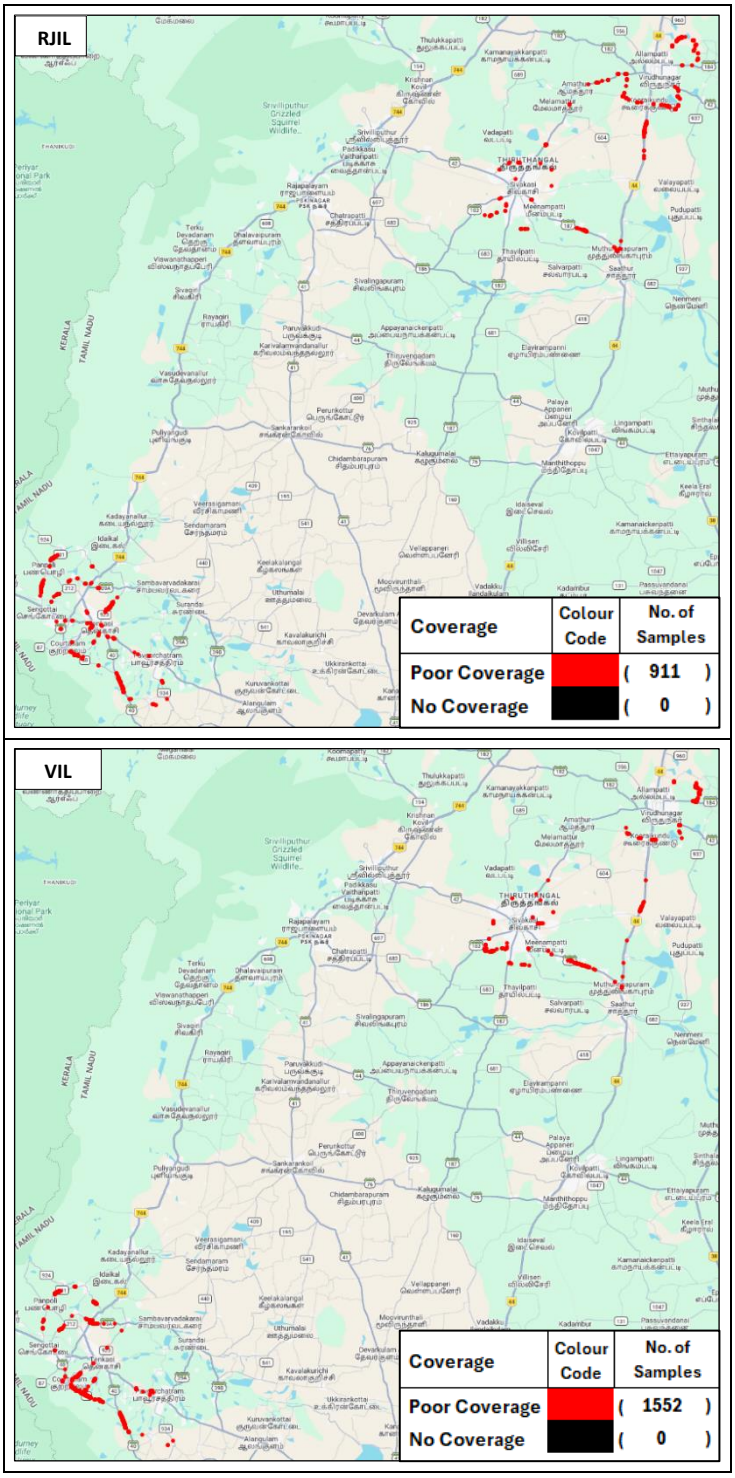
Parameter	AIRTEL	BSNL	RJIL	VIL
Total Number of Samples captured on Drive test route	41110	40362	39132	40918
Number of Samples having poor signal strength	456	3466	911	1552
Number of Samples having limited service (No Coverage)	0	201	0	0

Note: Signal strength has been considered poor if it falls below −110 dBm for 5G & 4G, −90 dBm for 3G, and −85 dBm for 2G.

Coverage Gap observed





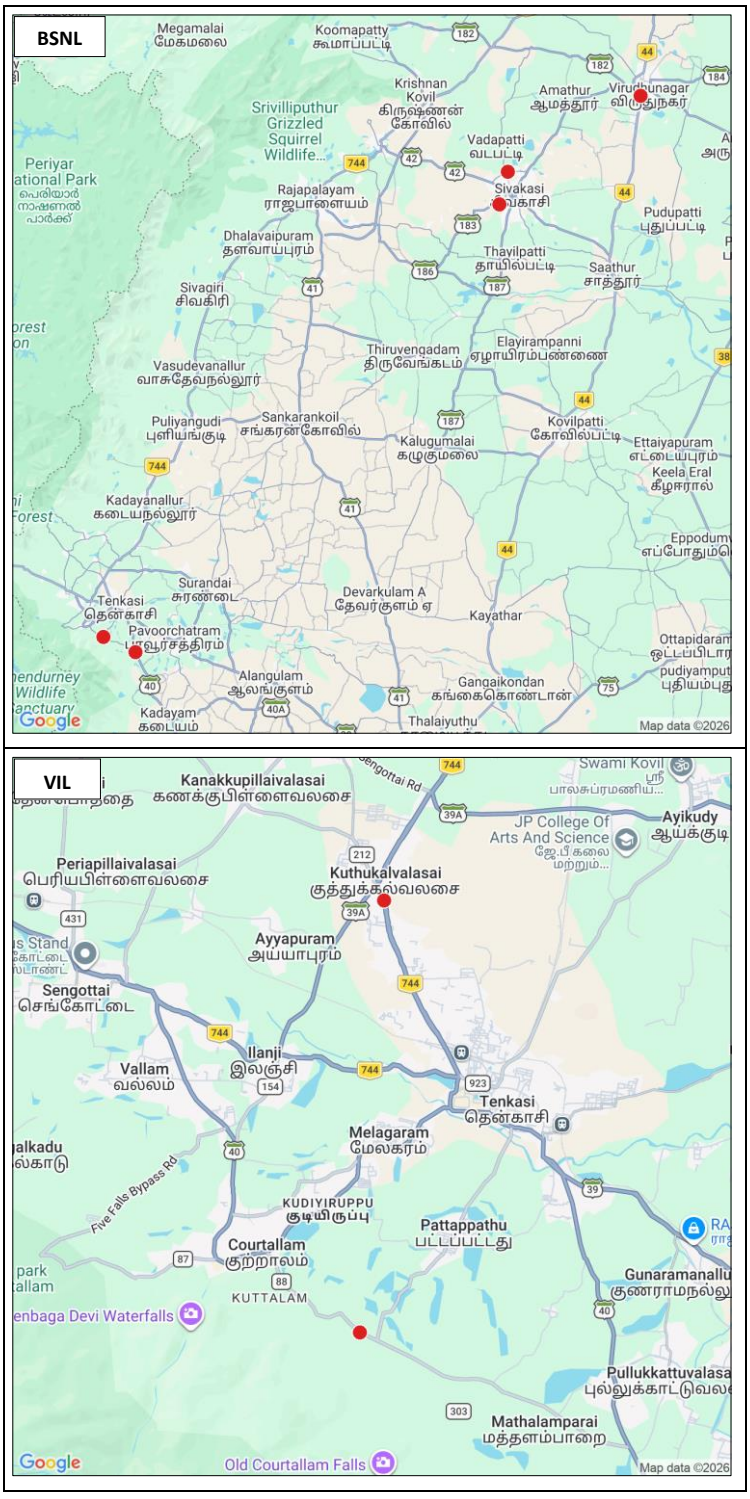


Note: Plot is based on Dynamic Drive Test results only

b) **Dropped Calls -** The TSP-wise details of dropped calls in auto-selection mode (5G/ 4G/ 3G/ 2G) are as below: -

Parameter	AIRTEL	BSNL	RJIL	VIL
Number of successful Calls Established	367	331	344	376
Number of dropped Calls	0	5	0	2

Locations of Dropped Calls

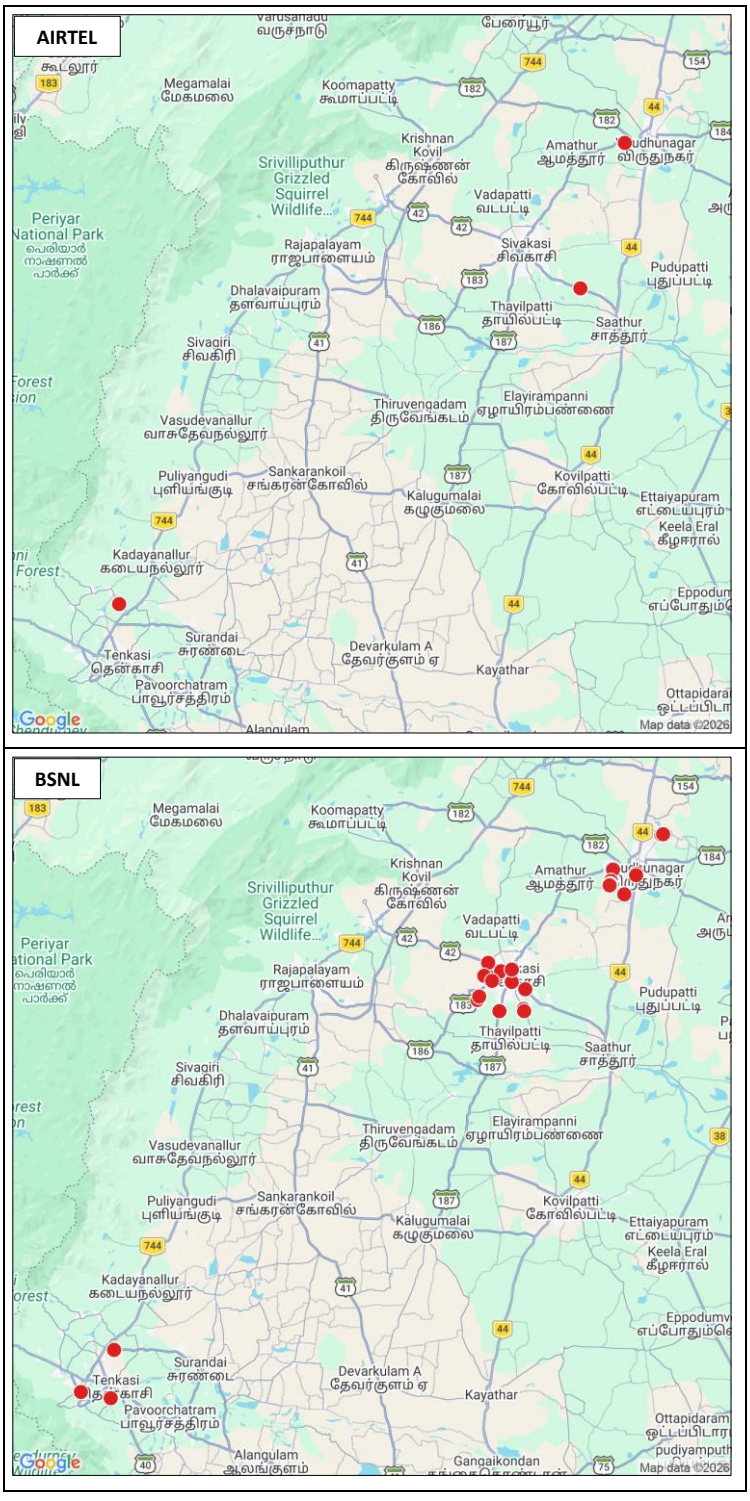


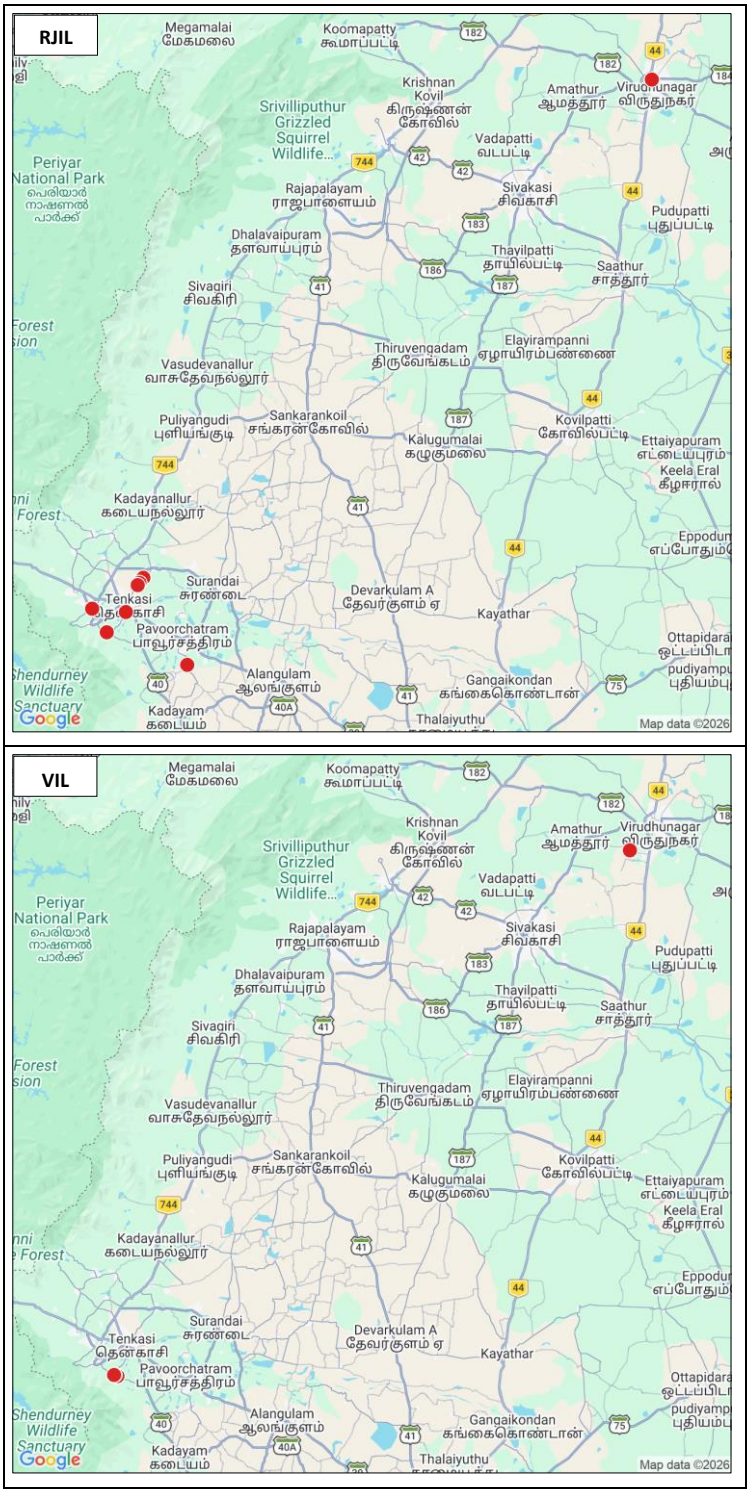
Note: Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map

c) **Call Silence Instance** - The TSP-wise details of Call silence instance in Auto-selection mode (5G/4G) are as below: -

Parameter	AIRTEL	BSNL	RJIL	VIL
Call Established (within service provider network)	349	332	353	366
Number of silences calls for >3 Sec	3	22	7	2
Total number of silence instances for >3 Sec	3	32	8	4

Locations of Call Silence Instance



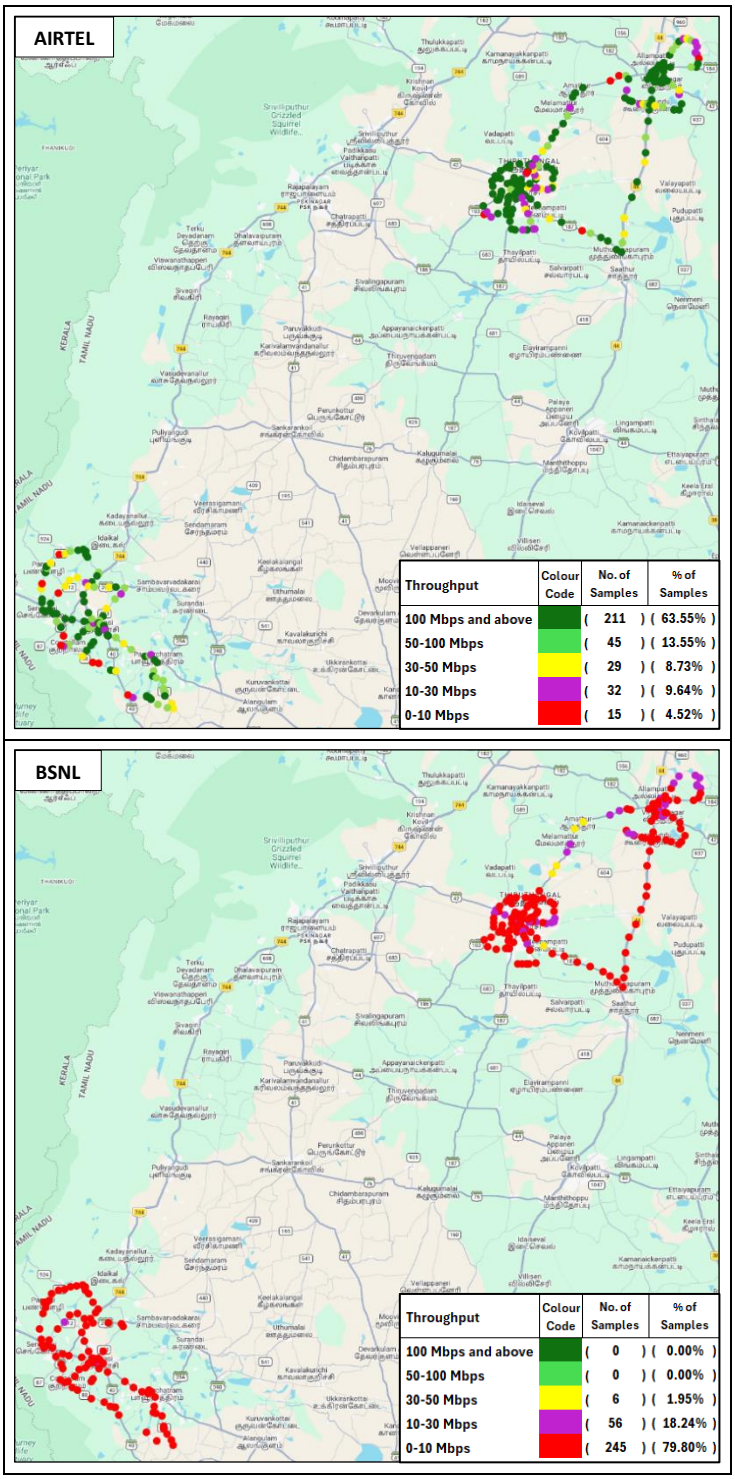


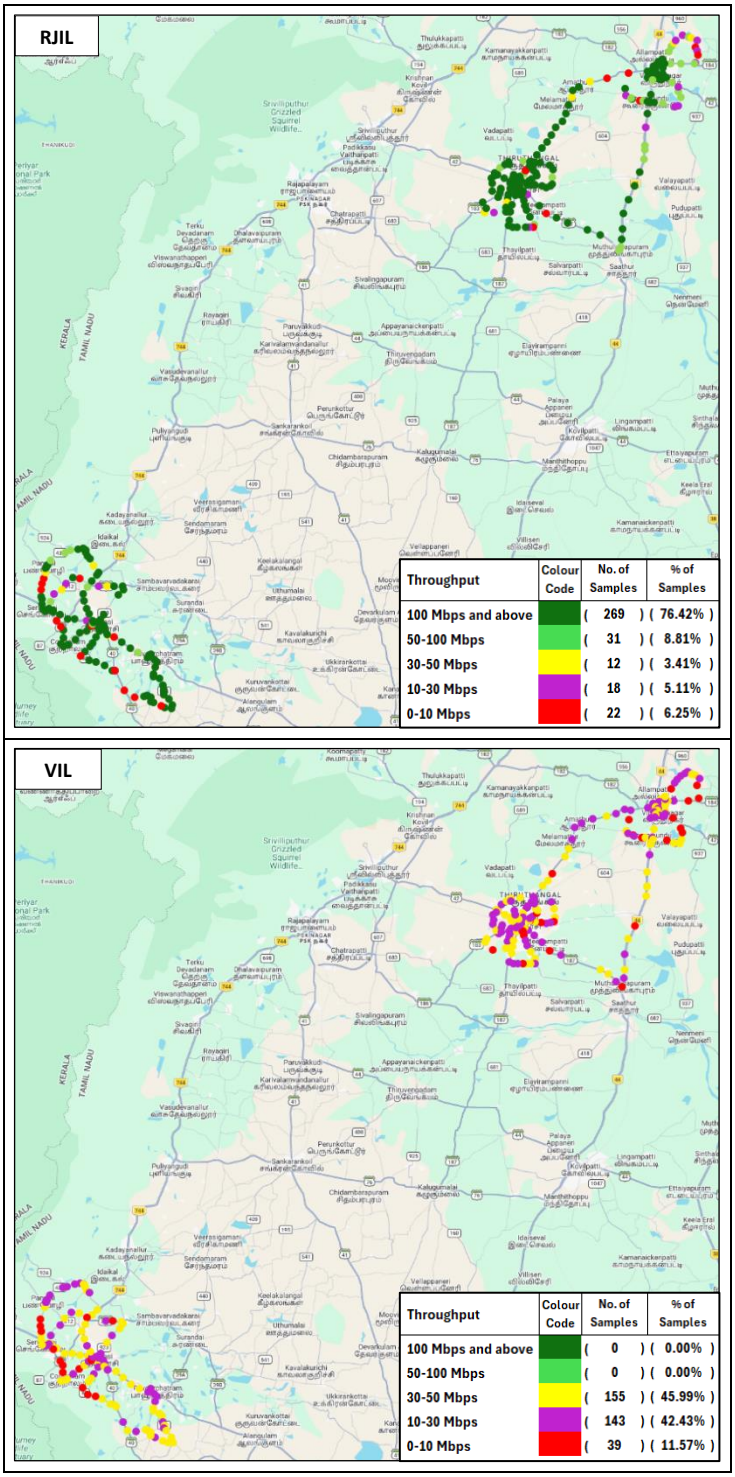
Note: Call silence instances are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map

d) **Data Download and Upload throughput:** The TSP-wise details of **Average Download (DL)** and **Upload (UL) throughput** against declared typical DL/UL Throughput for month, in Auto-selection mode (5G/4G/3G/2G) are as below: -

(i) Download Throughput

Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 4G)
Typical Download throughput declared by TSP	(Mbits/s)	18.00	5.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	157.73	6.25	275.96	26.36

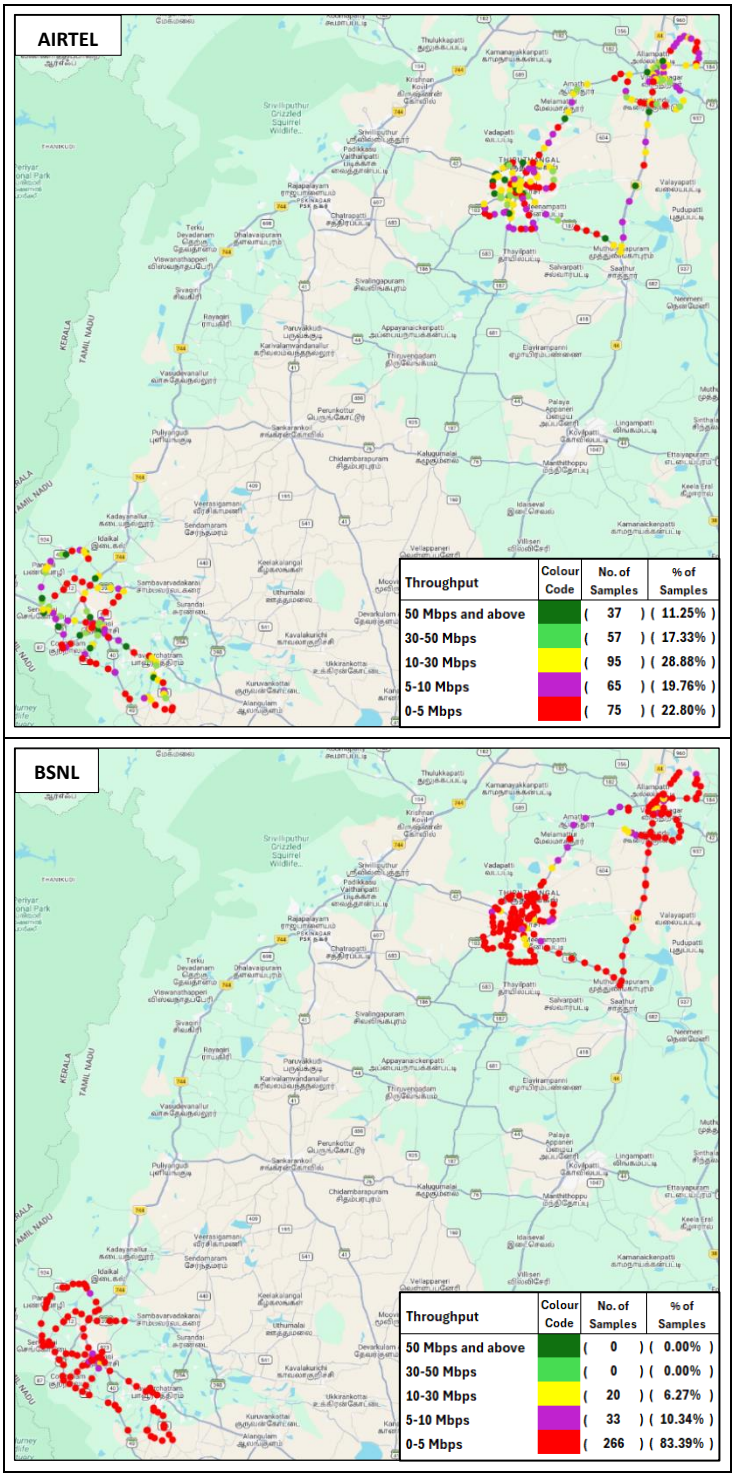


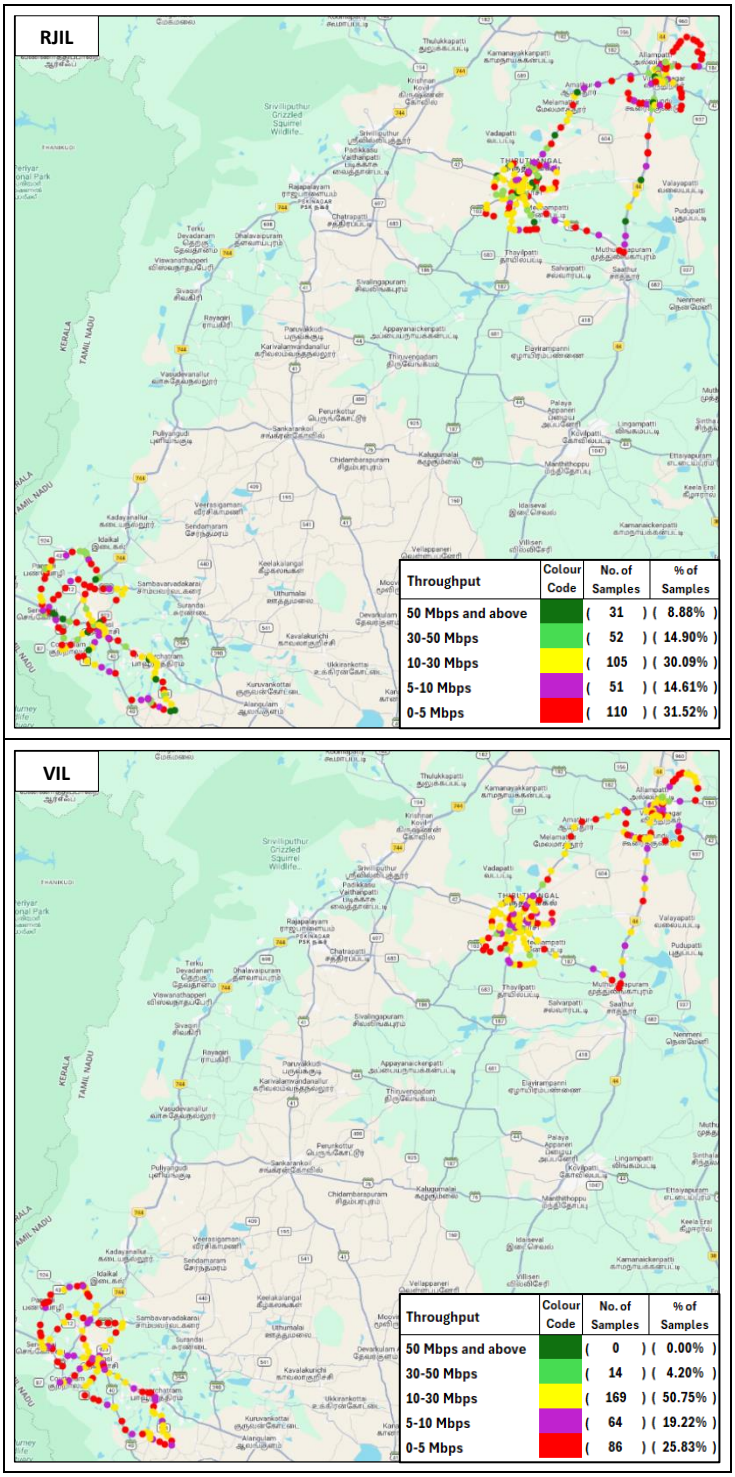


Note: Plot is based on Dynamic Drive Test results only

(ii) Upload Throughput

Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 4G)
Typical upload throughput declared by TSP	(Mbits/s)	8.00	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	21.94	2.98	19.06	12.46





Note: Plot is based on Dynamic Drive Test results only