



TRAI assesses Mobile Network Quality across Sagar and Raigarh City under MP LSA

प्रविष्टि तिथि: 02 JUN 2026 5:39PM by PIB Delhi

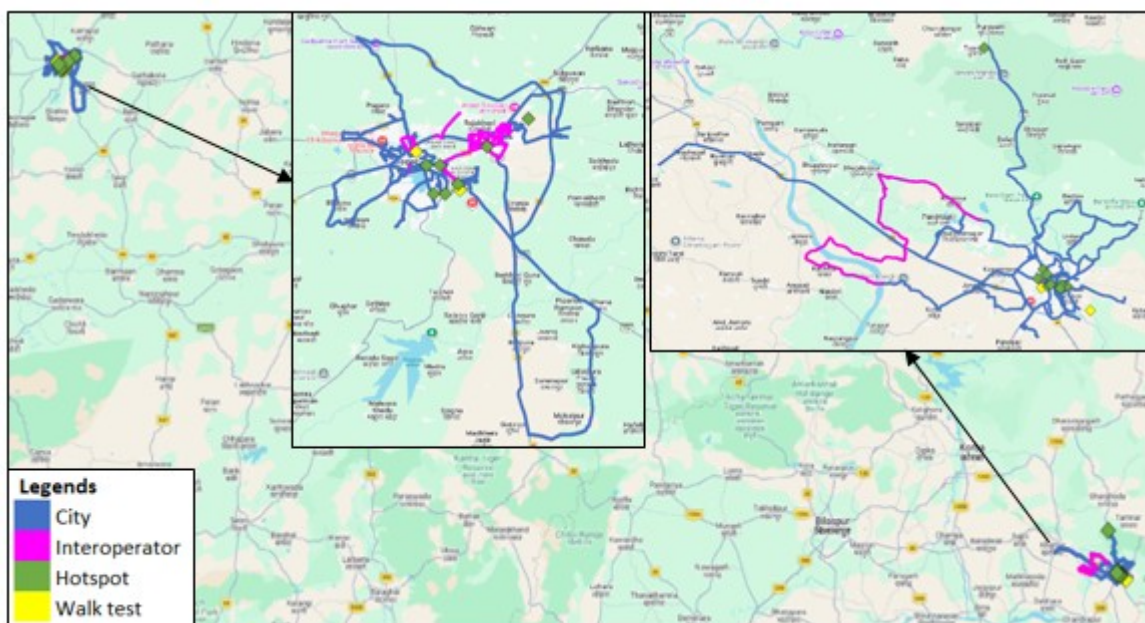
TRAI assesses Mobile Network Quality Across Gopal Ganj, Berkhari Guru, Udaipura Tiwari, Pipariya Ramwan, Sironja, Bamhori Bika, Lidhorahat, Bamora, Makronia, Makronia muhal, Guru Amar Das Nagar, Gadoli Khurd, Anand Nagar, Badona, Rajauya, Keshav Ganj, Motinagar and Katra bazar etc. in Sagar city and Khairpur, Mauhpali, Kachhar, Kotra, Kosamnara, Kelo Vihar, Urdana, Barliya, Tumidih, Chandni chowk, Darogapara and Chakradhar Nagar etc. in Raigarh city.

The Telecom Regulatory Authority of India (TRAI) has released findings of Independent Drive Test (IDT) conducted across Sagar and Raigarh City under MP LSA, during the month of March 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.

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.

TRAI, through its appointed agency, conducted drive tests across City drive – 455.1 KMs, Hotspot locations - 16, Walk Test - 9.7 Kms in Sagar and Raigarh city during 16th March 2026 to 21st March 2026 in **MP LSA**. These tests were conducted under the supervision of the TRAI Regional Office Bhopal. 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.

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: -



Key Parameters Assessed

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

The overall mobile network performance in Sagar and Raigarh city for the key parameters has been summarised below: -

- Coverage Gap** - 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 **602/ 33259** for **Airtel**, **3404/ 31918** for **BSNL**, **913/ 32486** for **RJIL** and **2040/ 32586** for **VIL** for Sagar city and **1620/ 30692** for **Airtel**, **8026/ 29127** for **BSNL**, **454/ 29999** for **RJIL** and **3754/ 30618** for **VIL** for Raigarh city. Details of the coverage gaps have been provided in the map **Annexed**.
- Dropped Calls** - Dropped calls, measured as the number of dropped calls out of the number of successfully established calls, were **0/ 295** for **Airtel**, **5/ 270** for **BSNL**, **0/ 294** for **RJIL** and **5/ 294** for **VIL** for Sagar city and **0/ 271** for **Airtel**, **4/ 260** for **BSNL**, **1/ 254** for **RJIL** and **0/ 277** for **VIL** for Raigarh city. Details of the dropped call locations have been provided in the map **Annexed**.
- 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 **4/ 281** for **Airtel**, **9/237** for **BSNL**, **3/ 284** for **RJIL** and **5/ 281** for **VIL** for Sagar city and **14/ 260** for **Airtel**, **39/214** for **BSNL**, **2/ 244** for **RJIL** and **7/ 258** for **VIL** for Raigarh city. Details of the call silence instance locations have been provided in the map **Annexed**.
- Data Download and Upload Throughput:**
 - Data Download performance (Overall):** Average download speed was observed as **98.22 Mbps** for **Airtel (5G/4G)**, **15.73 Mbps** for **BSNL (4G)**, **277.28 Mbps** for **RJIL (5G/4G)** and **35.85 Mbps** for **VIL (4G)** for Sagar city and **98.78 Mbps** for **Airtel**

(5G/4G), 16.08 Mbps for BSNL (4G), 172.64 Mbps for RJIL (5G/4G) and 21.72 Mbps for VIL (4G) for Raigarh city. Detail of Download throughput has been provided in the map **Annexed**.

ii) **Data Upload performance (Overall)**: Average upload speed was observed as 22.20 Mbps for Airtel (5G/4G), 4.73 Mbps for BSNL (4G), 28.71 Mbps for RJIL (5G/4G) and 10.55 Mbps for VIL (4G) for Sagar city and 22.21 Mbps for Airtel (5G/4G), 5.40 Mbps for BSNL (4G), 19.84 Mbps for RJIL (5G/4G) and 13.06 Mbps for VIL (4G) for Raigarh city. 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**.

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

- a) **City** - The areas covered in the city drive are Gopal ganj, Berkhari Guru, udaipura Tiwari, Pipariya Ramwan, Sironja, Bamhori bika, Lidhorahat, Bamora, Makronia, Makronia muhal, Guru amar das nagar, Gadoli khurd, Anand Nagar, Badona, Rajauya, Keshav Ganj, Motinagar and Katra bazar etc. in Sagar city and khairpur, Mauhpali, Kachhar, Kotra, Kosamnara, Kelo Vihar, Urdana, Barliya, Tumidih, Chandni chowk, Darogapara and Chakradhar Nagar etc. in Raigarh city.
- b) **Hotspot** - The hot spot locations, capturing stationary user experience, are Carmel Convent Hr. Sec School Raigarh, Collectorate Sagar, Dr. Hari Singh Gaur University Sagar, Government Engineering College Sagar, Government Polytechnic College Sagar, Kirodimal Arts & Science College Raigarh, Kirodimal Govt District Hospital Raigarh, Kirodimal Polytechnic College Raigarh, Makroniya Chauraha Sagar, Medical College Sagar, O.P. Jindal University (OPJU) Raigarh, Raigarh Bus Stand, Raigarh Collectorate, Sagar Bus Stand, Shanichari Bazaar Raigarh & Uttam International School Raigarh.
- c) **Walk Test** - The walk tests conducted on 16th March 2026 to 21st March 2026, covered Dr. Hari Singh Gaur University Sagar, Late Shri Lakhi Ram Agrawal Memorial Government Medical College Raigarh, Raigarh Railway Station & Sagar Railway Station capturing mobile network behaviour in crowded pedestrian environments.

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.bhopal@trai.gov.in or Regional Office of TRAI at Bhopal RO can be contacted on telephone no. +91-755-2575501.

Annexure

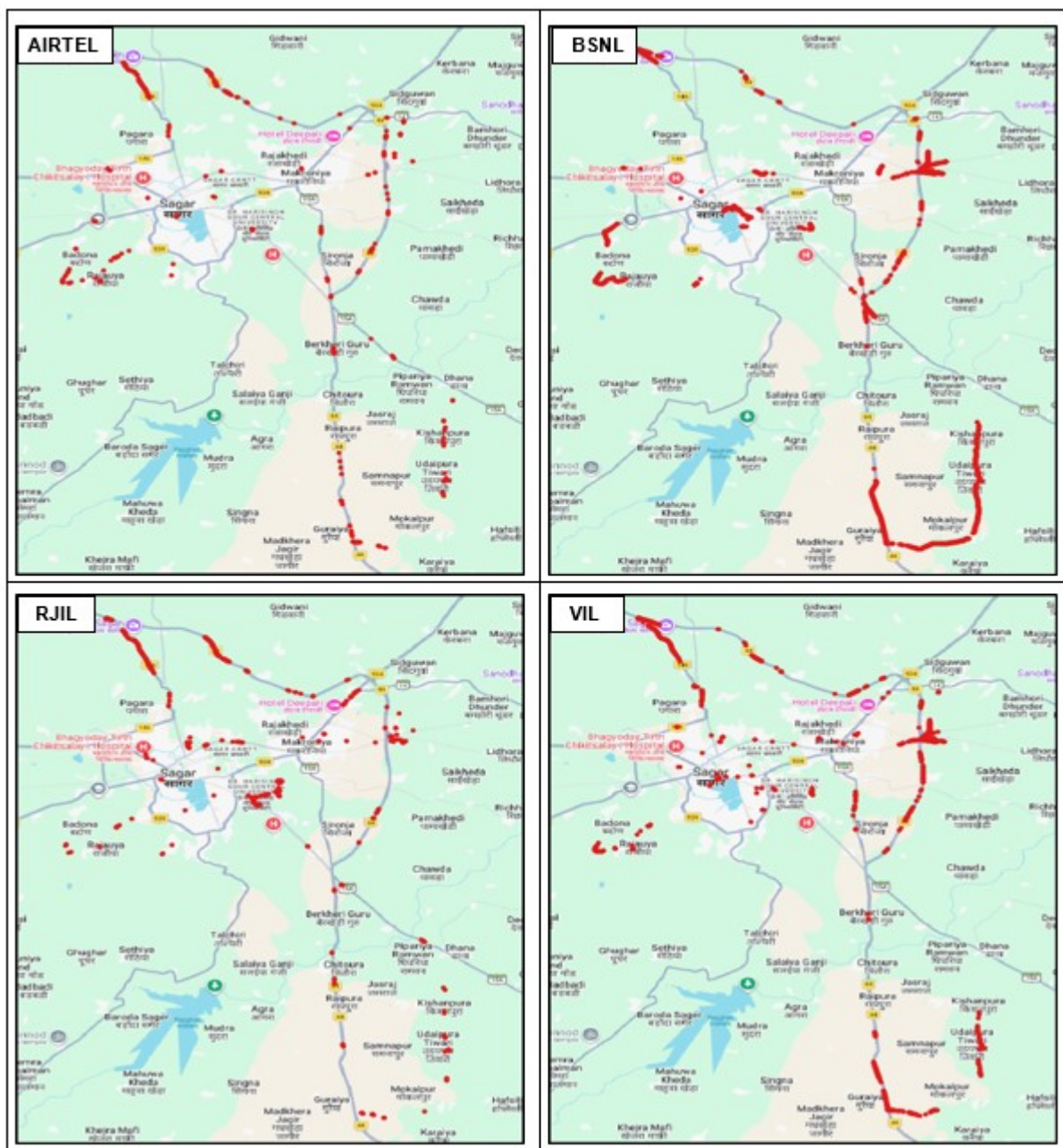
1) Sagar City -

- 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	33259	31918	32486	32586
Number of Samples having poor signal strength	602	3404	913	2040

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

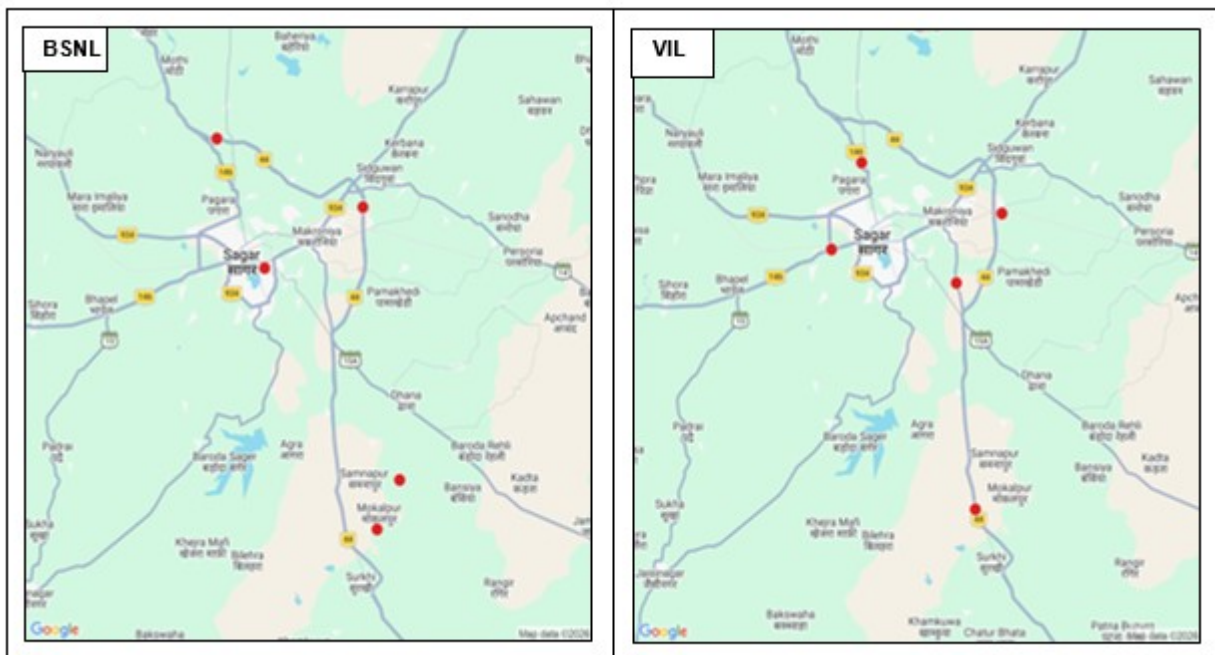


Note: Plot is based on Dynamic Drive Test results only.

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	295	270	294	294
Number of dropped Calls	0	5	0	5

Locations of Dropped Calls

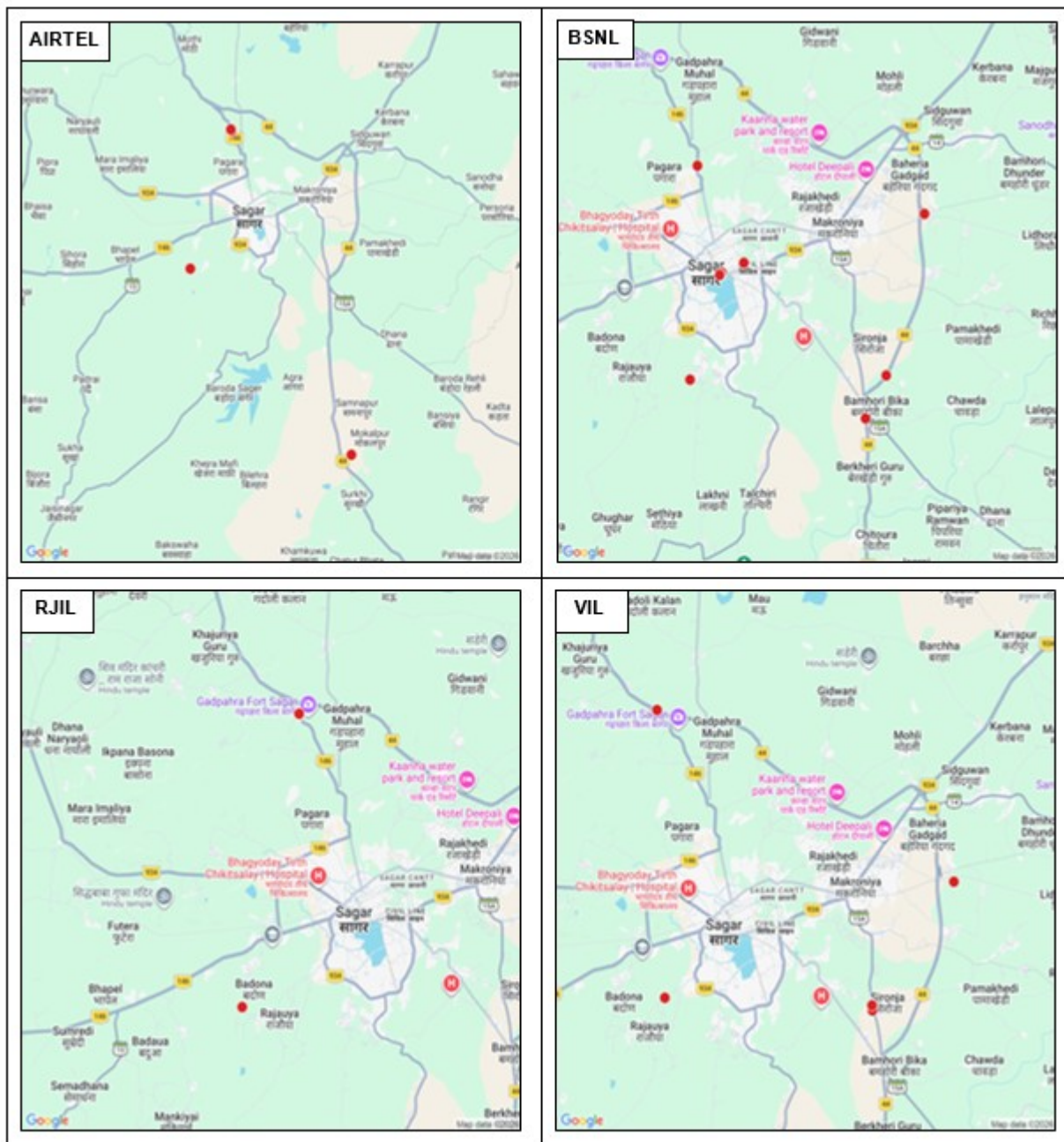


Note: Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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)	281	237	284	281
Number of silences calls for >3 Sec	3	8	2	4
Total number of silence instances for >3 Sec	4	9	3	5

Locations of Call Silence Instance

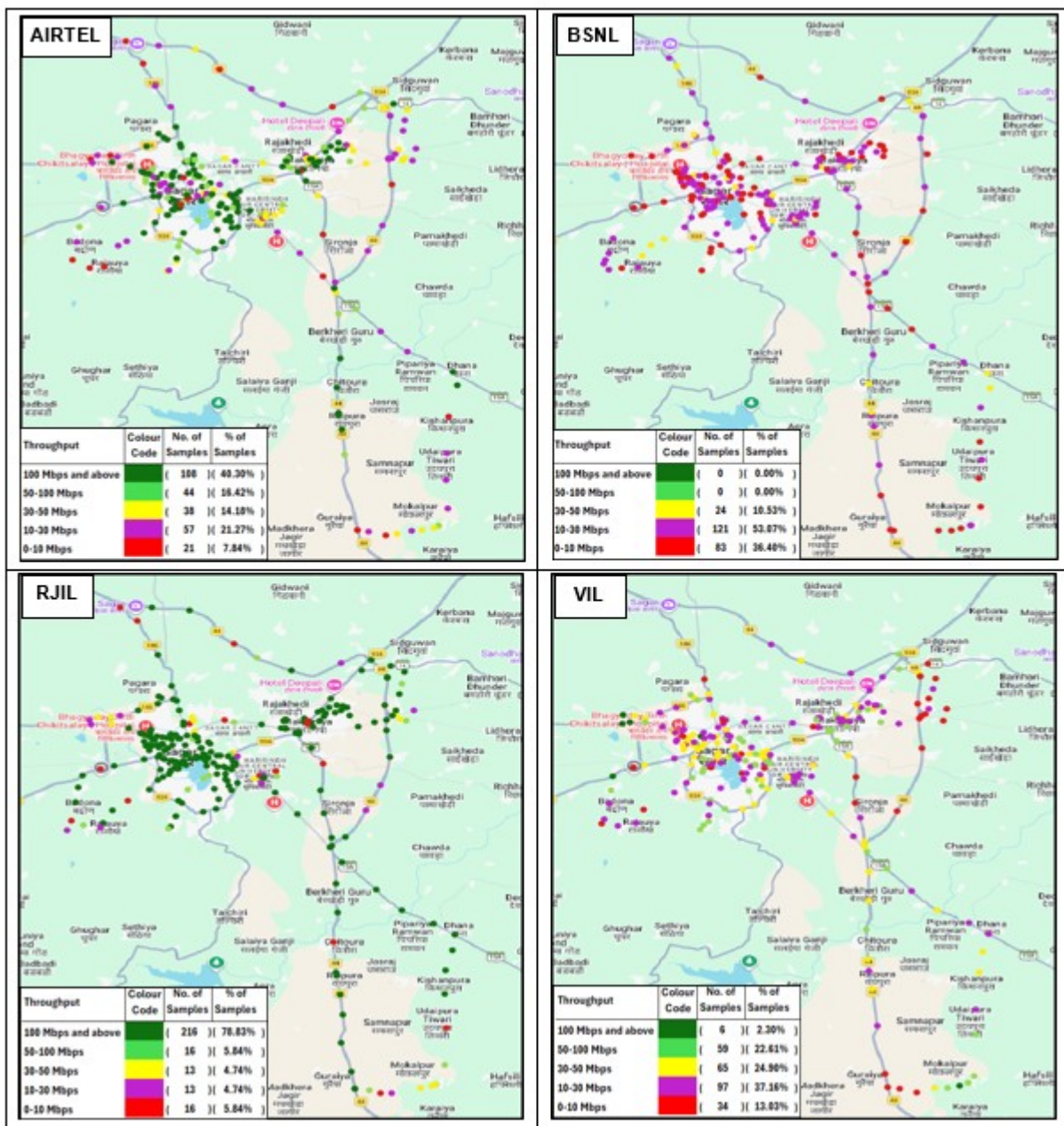


Note: Call silence instances are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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

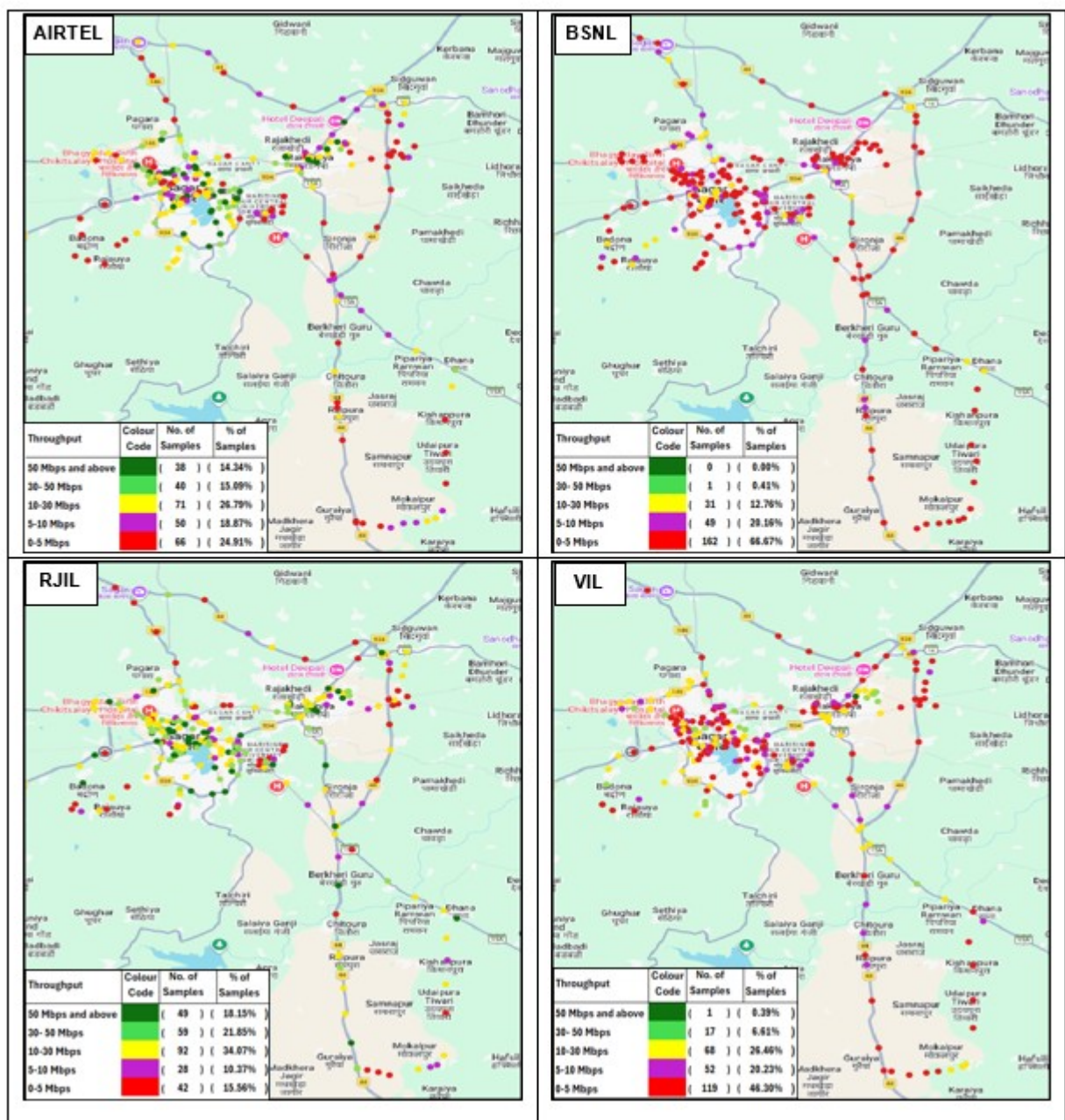
Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 4G)
Typical Download throughput declared by TSP	(Mbits/s)	16.12	5.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	98.22	15.73	277.28	35.85



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)	2.84	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	22.20	4.73	28.71	10.55



Note: Plot is based on Dynamic Drive Test results only.

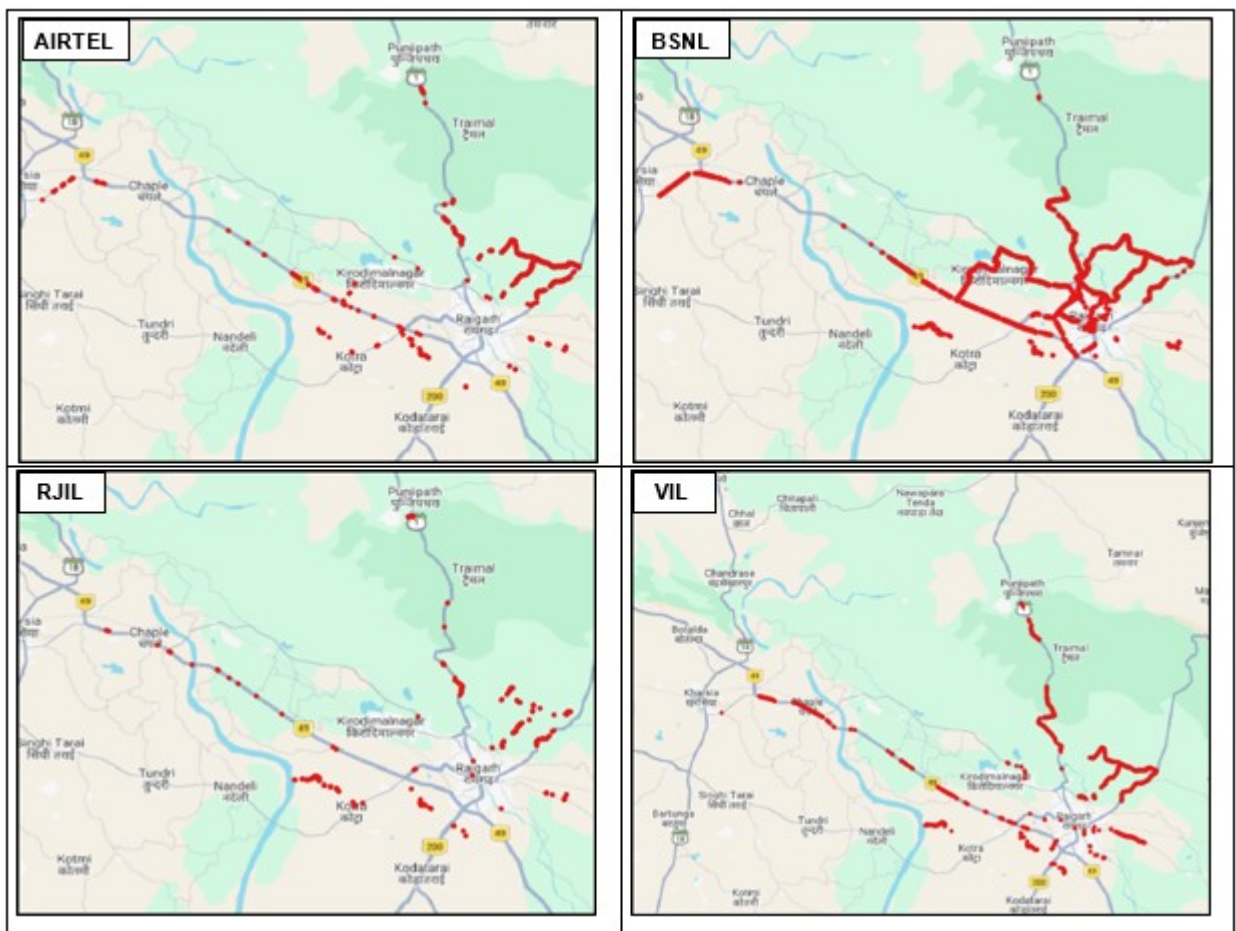
2) Raigarh City–

- 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	30692	29127	29999	30618
Number of Samples having poor signal strength	1620	8026	454	3754

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

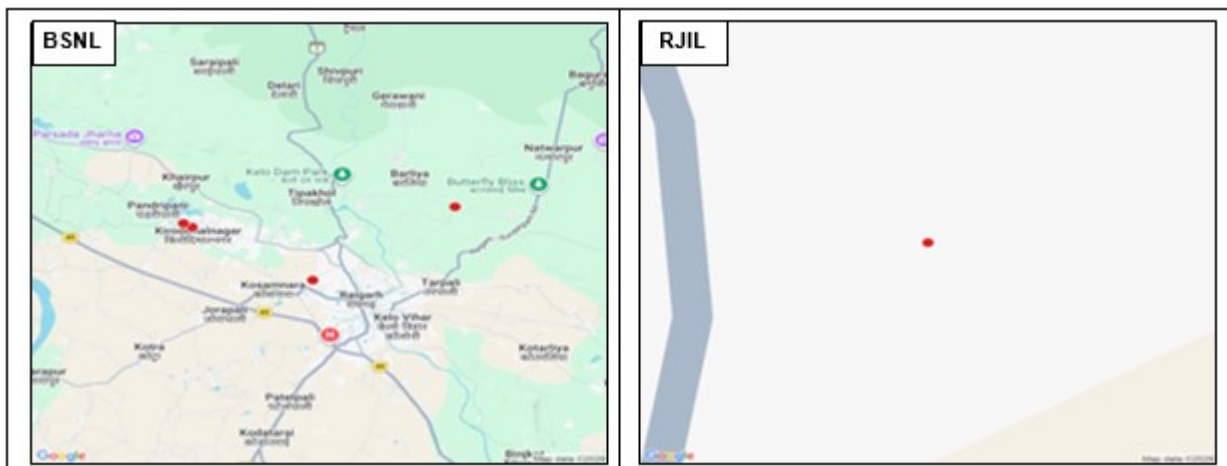


Note: Plot is based on Dynamic Drive Test results only.

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	271	260	254	277
Number of dropped Calls	0	4	1	0

Locations of Dropped Calls

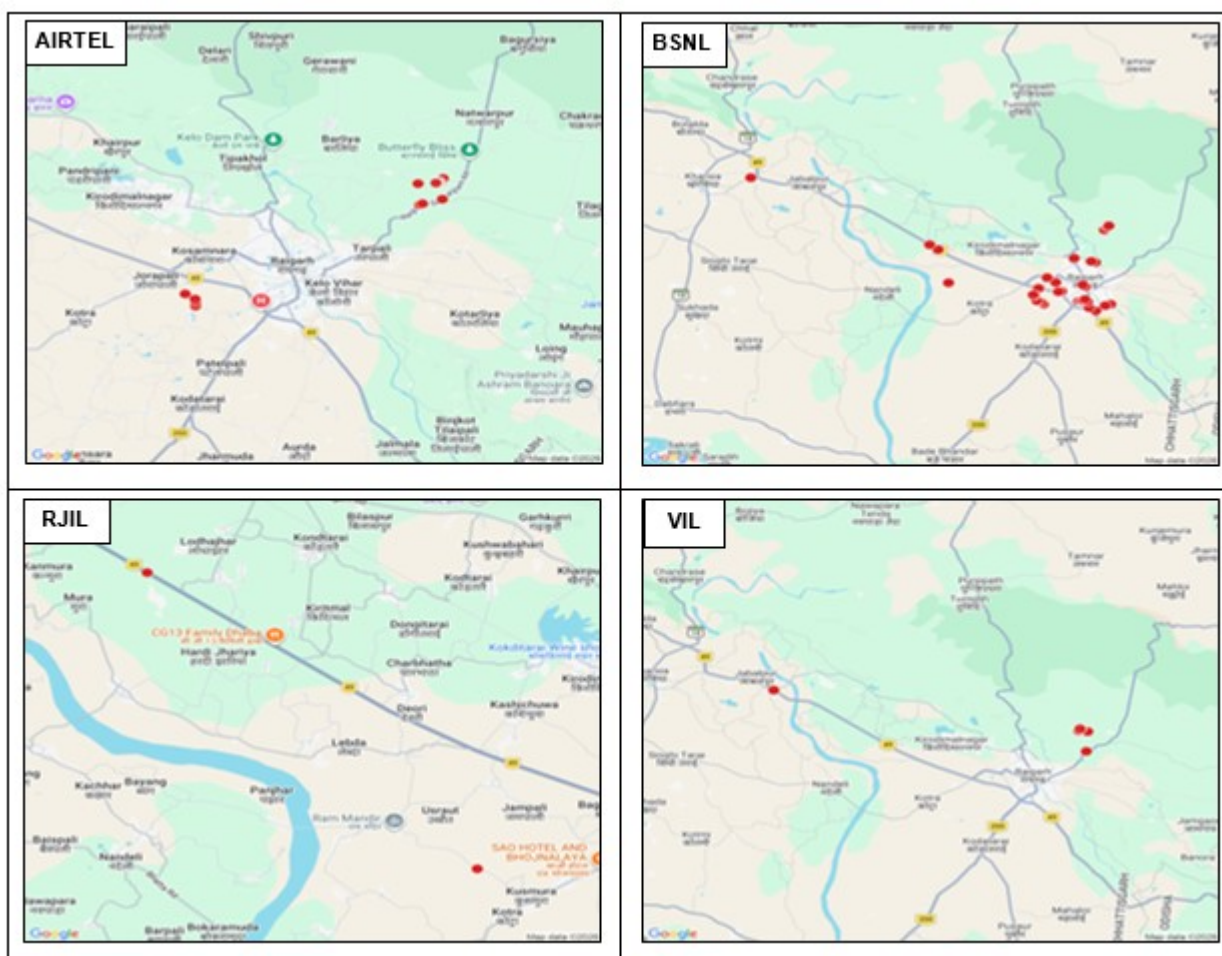


Note: Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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)	260	214	244	258
Number of silences calls for >3 Sec	5	26	2	5
Total number of silence instances for >3 Sec	14	39	2	7

Locations of Call Silence Instance



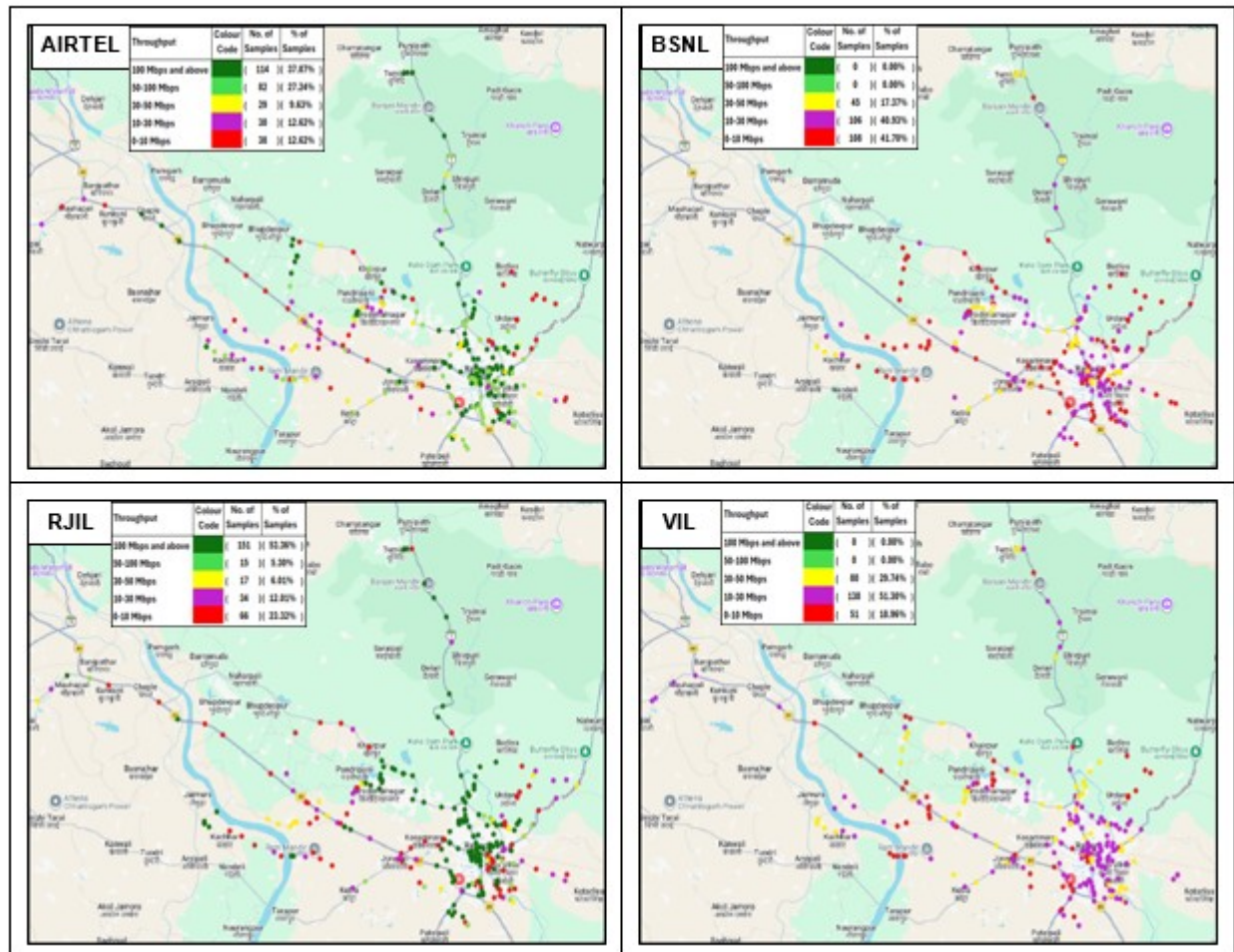
Note: Call silence instances are shown in red colour, and which can be clicked to know the exact location (latitude and longitude) on the map.

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:

e. Download Throughput

Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 4G)

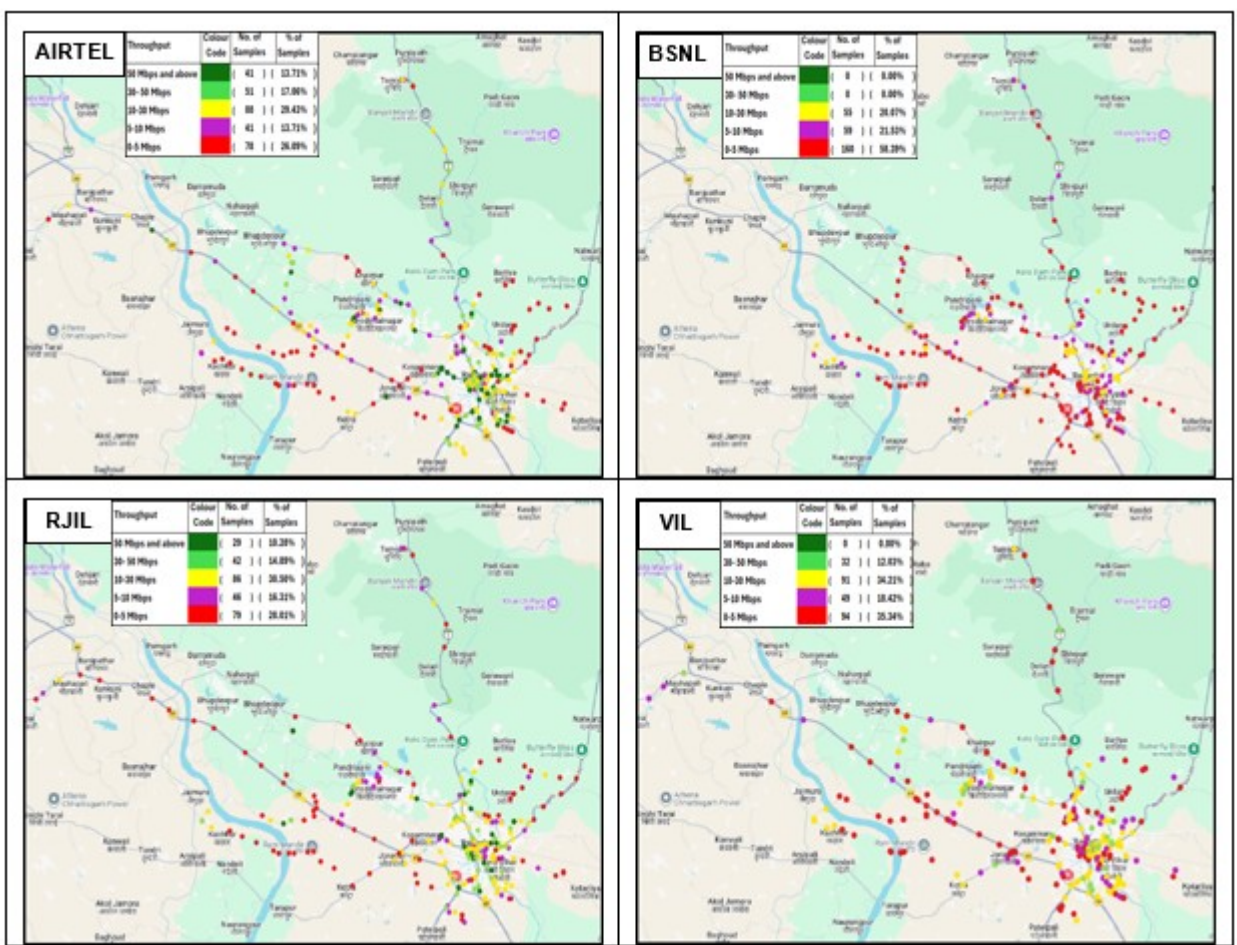
Typical Download throughput declared by TSP	(Mbits/s)	16.12	5.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	98.78	16.08	172.64	21.72



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)	2.84	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	22.21	5.40	19.84	13.06



Note: Plot is based on Dynamic Drive Test results only.

NJ/ARJ

(रिलीज आईडी: 2268052) आगंतुक पटल : 436
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