

TELECOM REGULATORY AUTHORITY OF INDIA

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For Immediate Release

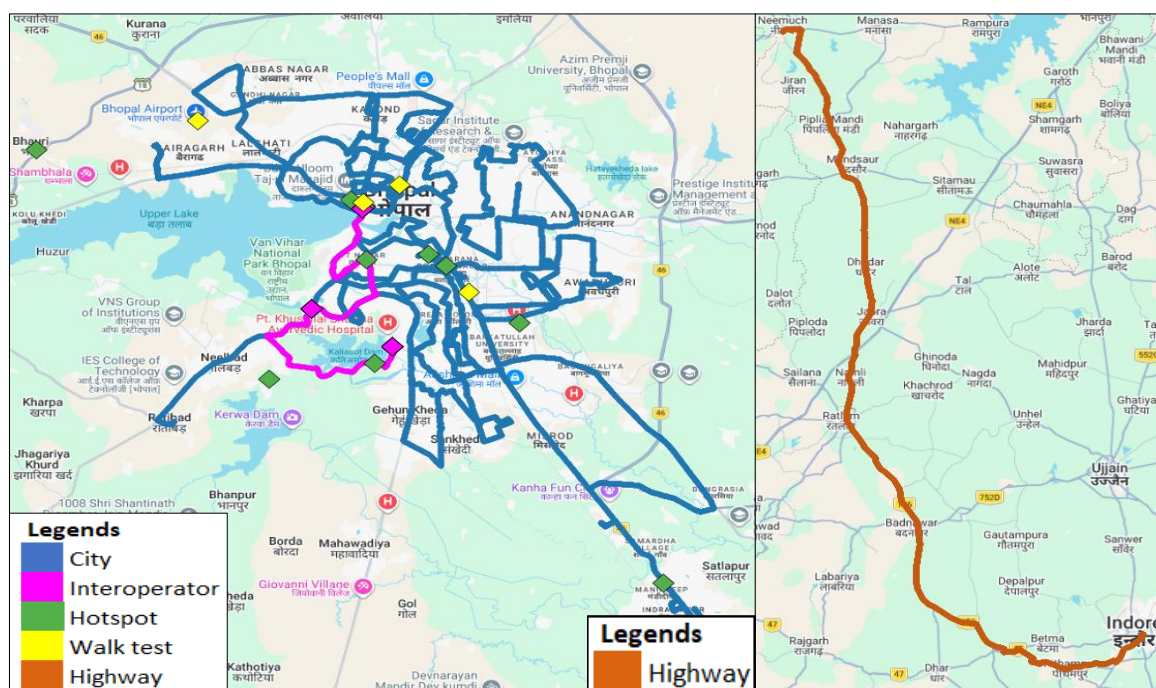
TRAI Assesses Mobile Network Quality Across Bhopal City, Indore to Neemuch Highway and Bilaspur to Ambikapur Highway. City includes Bairagarh, Lalghati, Gandhinagar, Karond, Bhanpur, JP Nagar, Kali Basti, Khusipura, Ashoka Garden, Govindpura, Minal Residency, Indrapuri, Ayodhya Nagar, Piplani, Awadh Puri, Saket Nagar, Pipaliya Kujadgarh, Indra Nagar, Jhalar Kalan, Misrod, Arera Colony, Maharana Pratap Nagar, Shivaji Nagar, Char Imli, Lalita Nagar, Dr. Ambedkar Nagar and Ratibad etc.

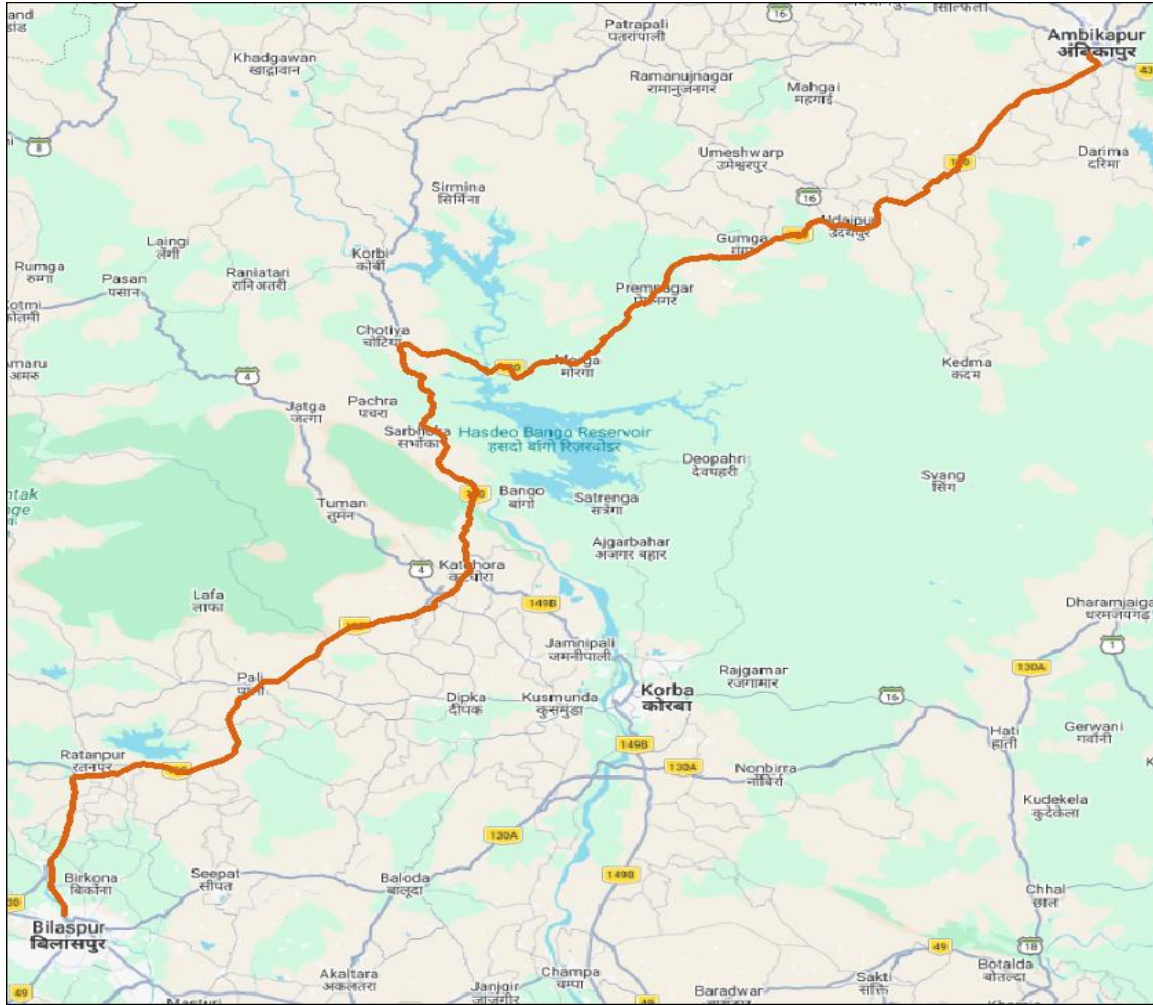
The Telecom Regulatory Authority of India (TRAI) has released findings of Independent Drive Test (IDT) conducted through its appointed agency across Bhopal City, Indore to Neemuch Highway and Bilaspur to Ambikapur Highway under MP LSA, during the month of June 2026, for information of general telecom 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). The performance of TSPs for key Quality of Service (QoS) parameters, captured during IDT are 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. `

2. 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.

3. The drive tests conducted across City drive – 301.2 KMs, Hotspot locations - 9, Walk Test – 7.9 KMs, Highway -506.3 KMs, in Bhopal City & Indore to Neemuch via Ratlam and Mandsaur Highway & Bilaspur to Ambikapur Highway from 8th June 2026 to 12th June 2026 & 16th June 2026 in **Madhya Pradesh LSA**.

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 (Mute) Rate, Speech Quality (MOS).
 - c) **Call Silence (Mute) Instance:** Number of call silence (Mute) instance occurred during the calls.
 - d) **Data Servies:** Download/ Upload Throughput, Latency, Jitter, Packet Drop Rate
6. The overall mobile network performance in Bhopal City and Indore to Neemuch Highway and Bilaspur to Ambikapur Highway route city for the key parameters has been summarised below: -
- a) **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 **293/ 55360** for **Airtel**, **1532/ 54034** for **BSNL**, **131/ 51838** for **RJIL** and **473/ 55208** for **VIL** for Bhopal city and **442/ 23802** for **Airtel**, **7023/ 22818** for **BSNL**, **822/ 25022** for **RJIL** and **557/ 23734** for **VIL** for Indore to Neemuch Highway and **3293/ 17114** for **Airtel**, **5201/ 15288** for **BSNL**, **2114/ 17806** for **RJIL** and **4548/ 14622** for **VIL** for Bilaspur to Ambikapur Highway. Details of the coverage gaps have been provided in the map **Annexed**.

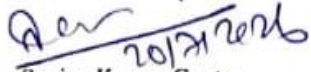
- b) **Dropped Calls** - Dropped calls, measured as the number of dropped calls out of the number of successfully established calls, were **3/ 494** for **Airtel**, **16/ 432** for **BSNL**, **1/ 495** for **RJIL** and **1/ 494** for **VIL** for Bhopal city and **1/ 120** for **Airtel**, **14/ 116** for **BSNL**, **0/ 125** for **RJIL** and **1/ 118** for **VIL** for Indore to Neemuch Highway and **4/ 86** for **Airtel**, **14/ 71** for **BSNL**, **2/ 90** for **RJIL** and **6/ 74** for **VIL** for Bilaspur to Ambikapur Highway. 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 **4/ 476** for **Airtel**, **21/ 419** for **BSNL**, **3/ 478** for **RJIL** and **4/ 481** for **VIL** for Bhopal city and **0/ 101** for **Airtel**, **10/ 117** for **BSNL**, **1/ 101** for **RJIL** and **4/ 101** for **VIL** for Indore to Neemuch Highway and **7/ 77** for **Airtel**, **8/ 87** for **BSNL**, **4/ 78** for **RJIL** and **3/ 63** for **VIL** for Bilaspur to Ambikapur Highway. 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 **44.25 Mbps** for **Airtel (5G)**, **10.68 Mbps** for **BSNL (4G)**, **291.53 Mbps** for **RJIL (5G)** and **63.96 Mbps** for **VIL (4G)** for Bhopal city and **86.90 Mbps** for **Airtel (5G)**, **9.13 Mbps** for **BSNL (4G)**, **216.50 Mbps** for **RJIL (5G)** and **21.44 Mbps** for **VIL (4G)** for Indore to Neemuch Highway and **40.32 Mbps** for **Airtel (5G)**, **10.76 Mbps** for **BSNL (4G)**, **150.95 Mbps** for **RJIL (5G)** and **17.99 Mbps** for **VIL (4G)** for Bilaspur to Ambikapur Highway. Detail of Download throughput has been provided in the map **Annexed**.
- ii) **Data Upload performance (Overall):** Average upload speed was observed as **15.49 Mbps** for **Airtel (5G)**, **7.20 Mbps** for **BSNL (4G)**, **34.92 Mbps** for **RJIL (5G)** and **12.50 Mbps** for **VIL (5G)** for Bhopal city and **20.84 Mbps** for **Airtel (5G)**, **5.80 Mbps** for **BSNL (4G)**, **19.30 Mbps** for **RJIL (5G)** and **10.71 Mbps** for **VIL (4G)** for Indore to Neemuch Highway and **11.53 Mbps** for **Airtel (5G)**, **4.99 Mbps** for **BSNL (4G)**, **15.93 Mbps** for **RJIL (5G)** and **12.06 Mbps** for **VIL (4G)** for Bilaspur to Ambikapur Highway. 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: -

- a) **City** - The areas covered in the city drive are Bairagarh, Lalghati, Gandhinagar, Karond, Bhanpur, JP Nagar, Kali Basti, Khusipura, Ashoka Garden, Govindpura, Minal Residency, Indrapuri, Ayodhya Nagar, Piplani, Awadh Puri, Saket Nagar, Pipaliya Kujadgarh, Indra Nagar, Jhalar Kalan, Misrod, Arera Colony, Maharana Pratap Nagar, Shivaji Nagar, Char Imli, Lalita Nagar, Dr. Ambedkar Nagar and Ratibad etc.in Bhopal City.
- b) **Hotspot** - The hot spot locations, capturing stationary user experience, are AIIMS, Bhopal New Market, DB City Mall, Hamidia Hospital, IISER Bhopal, M. P. Water and Land Management Institute, Mandideep Bus Stand, NLIU Bhopal & TRAI Regional Office Bhopal.
- c) **Walk Test** - The walk tests conducted on 10th & 11th June 2026, covered Bhopal Airport, Bhopal Railway Station, Chowk Bazaar Peer Gate Area & RKMP Railway Station capturing mobile network behaviour in crowded pedestrian environments.
- d) **Highway Route** - Indore to Neemuch via Ratlam and Mandsaur passing through Ghatabillod, Nagda, Badnawar, Dharad, Jaora, mandsor & Bhat kheda and Bilaspur to Ambikapur passing through Tekar, Baksahi, Potapani, Chaitma, Iraf, Katghora, Tanakhar, Dadar, Barpali, Lepara, Bango, Sarbhoka, Chotiya, Moraga, Premnagar, Udaipur and Jajga etc.

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


Sanjay Kumar Gupta,
Advisor, RO Bhopal

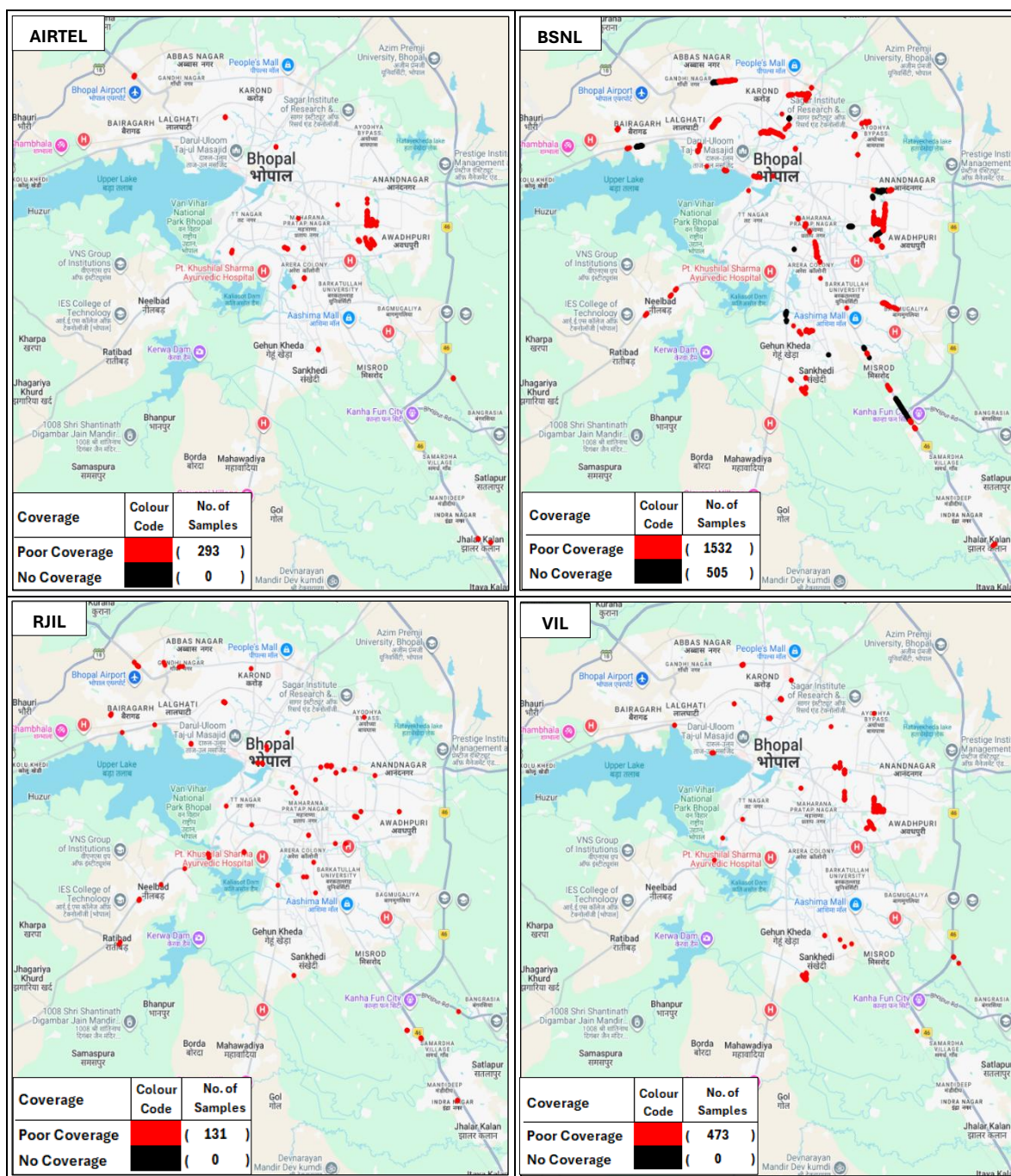
1. Bhopal:

- 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	55360	54034	51838	55208
Number of Samples having poor signal strength	293	1532	131	473
Number of Samples having limited service (No Coverage)	0	505	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

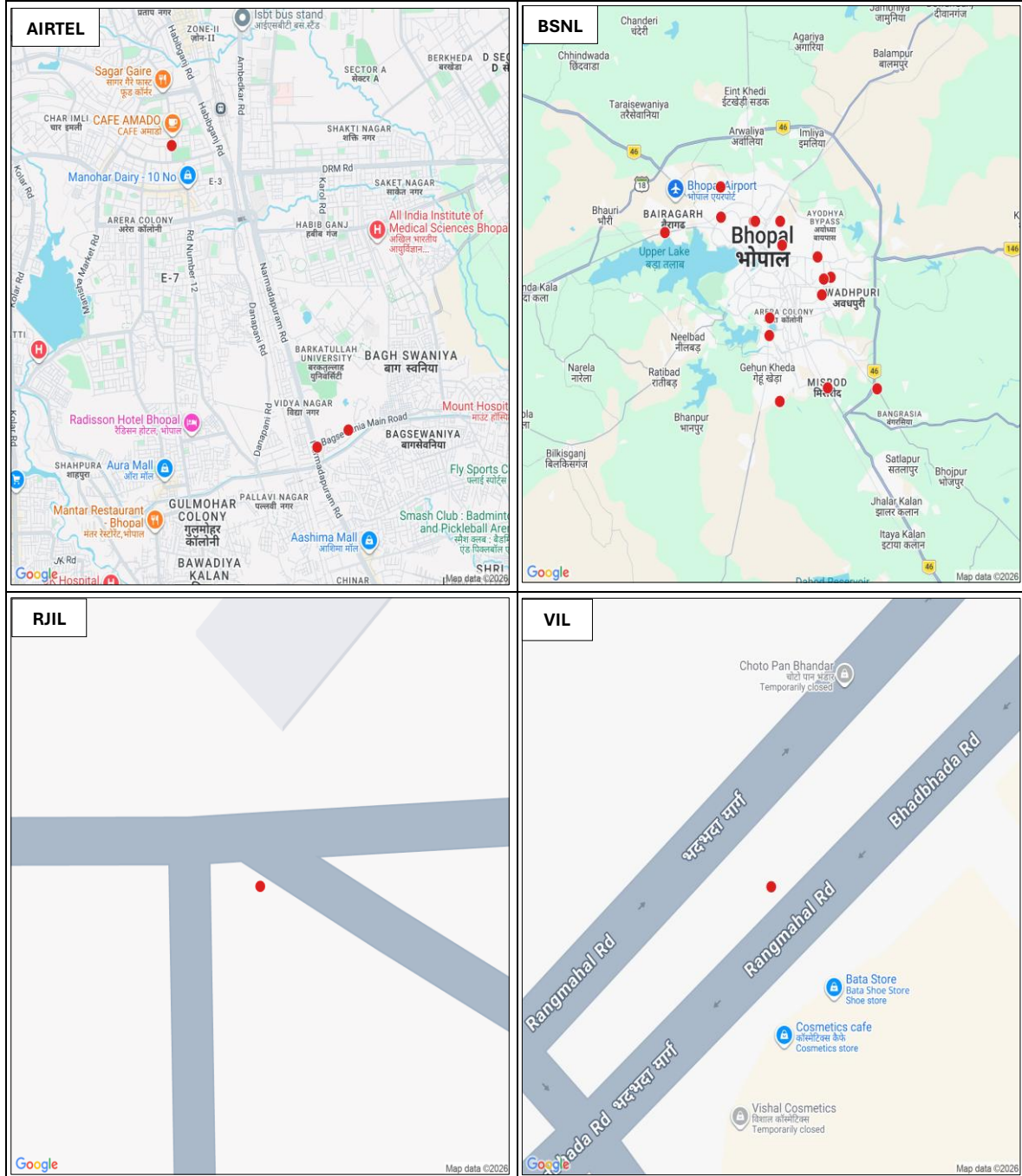


Note: Plot is based on Dynamic Drive Test results only.

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	494	432	495	494
Number of dropped Calls	3	16	1	1

Locations of Dropped Calls

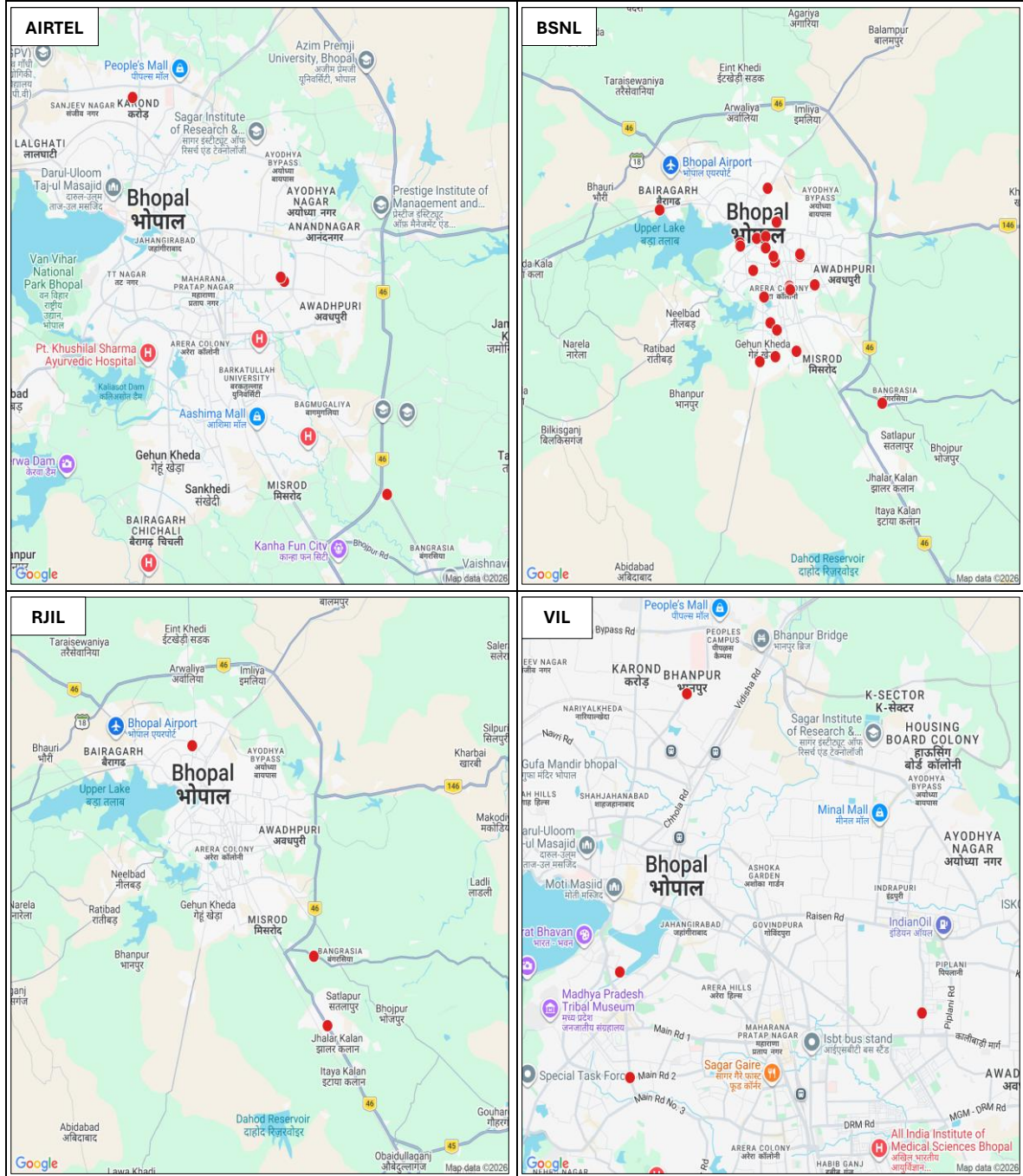


Note: Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the maps.

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)	476	419	478	481
Number of silences calls for >3 Sec	4	21	3	4
Total number of silence instances for >3 Sec	4	25	3	4

Locations of Call Silence Instance

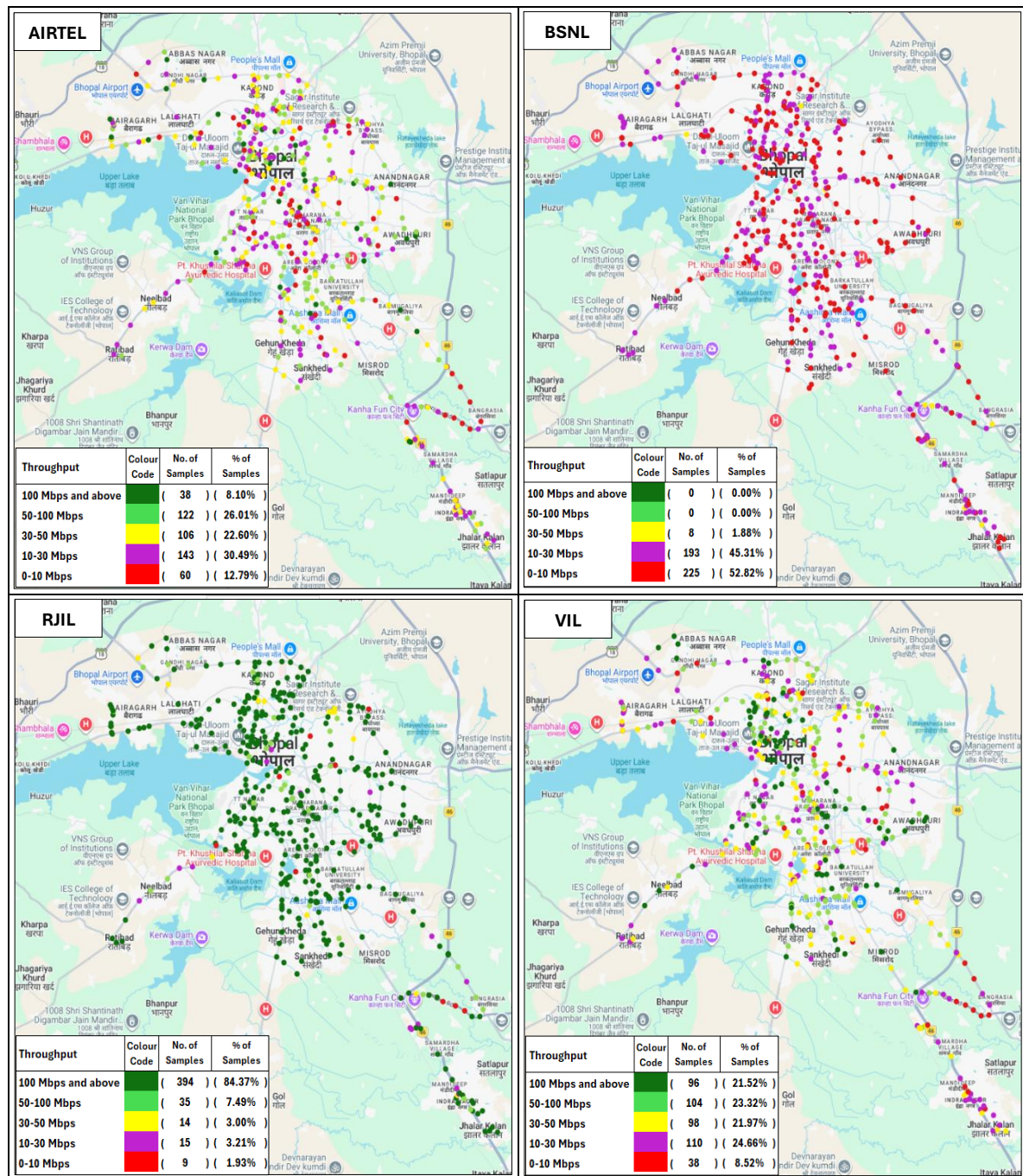


Note: Call silence instances are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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

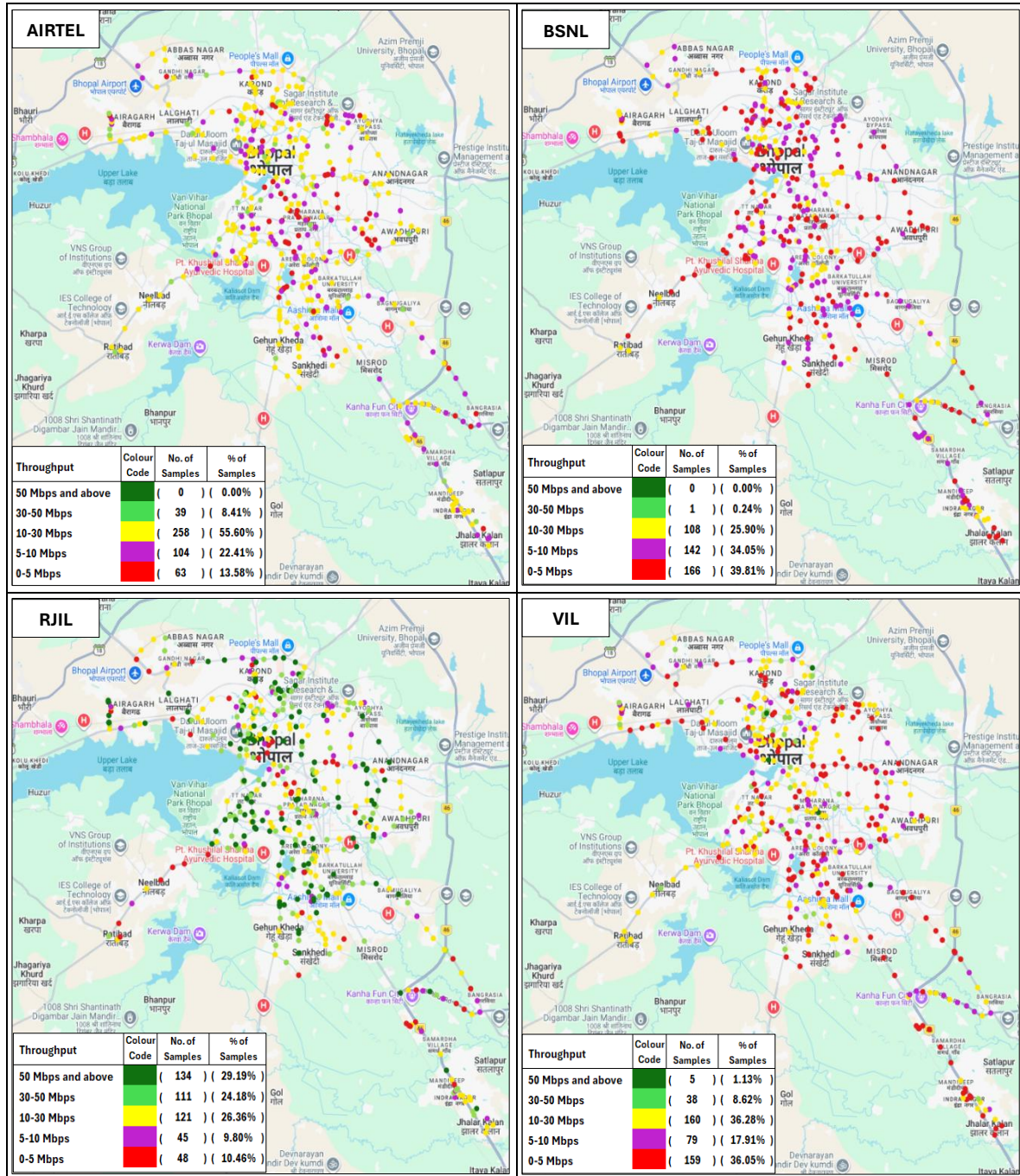
Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 5G)
Typical Download throughput declared by TSP	(Mbits/s)	18.53	5.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	44.25	10.68	291.53	63.96



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 5G)
Typical upload throughput declared by TSP	(Mbits/s)	2.84	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	15.49	7.20	34.92	12.50



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

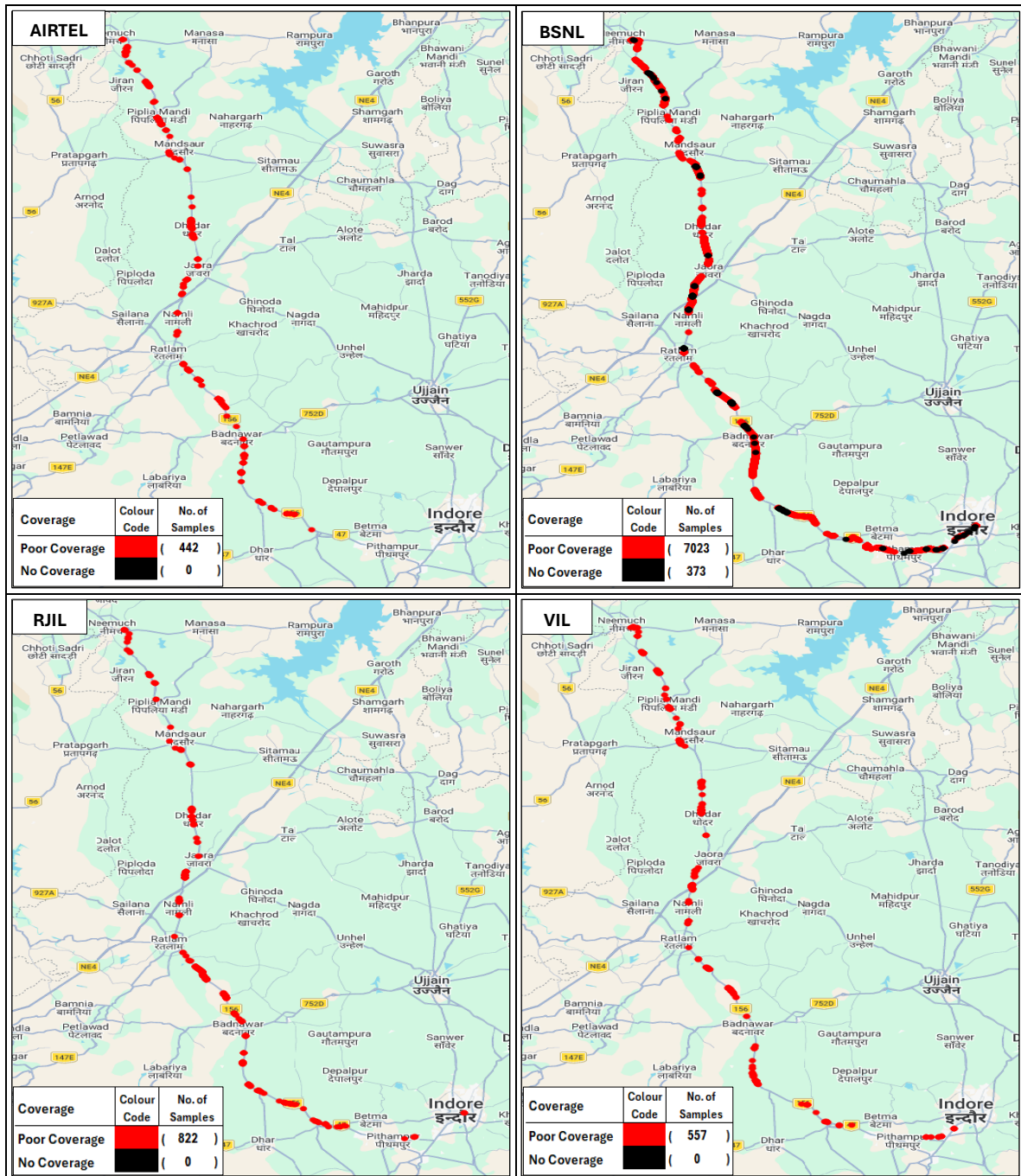
2. Indore to Neemuch via Ratlam and Mandsaur Highway:

- 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	23802	22818	25022	23734
Number of Samples having poor signal strength	442	7023	822	557
Number of Samples having limited service (No Coverage)	0	373	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

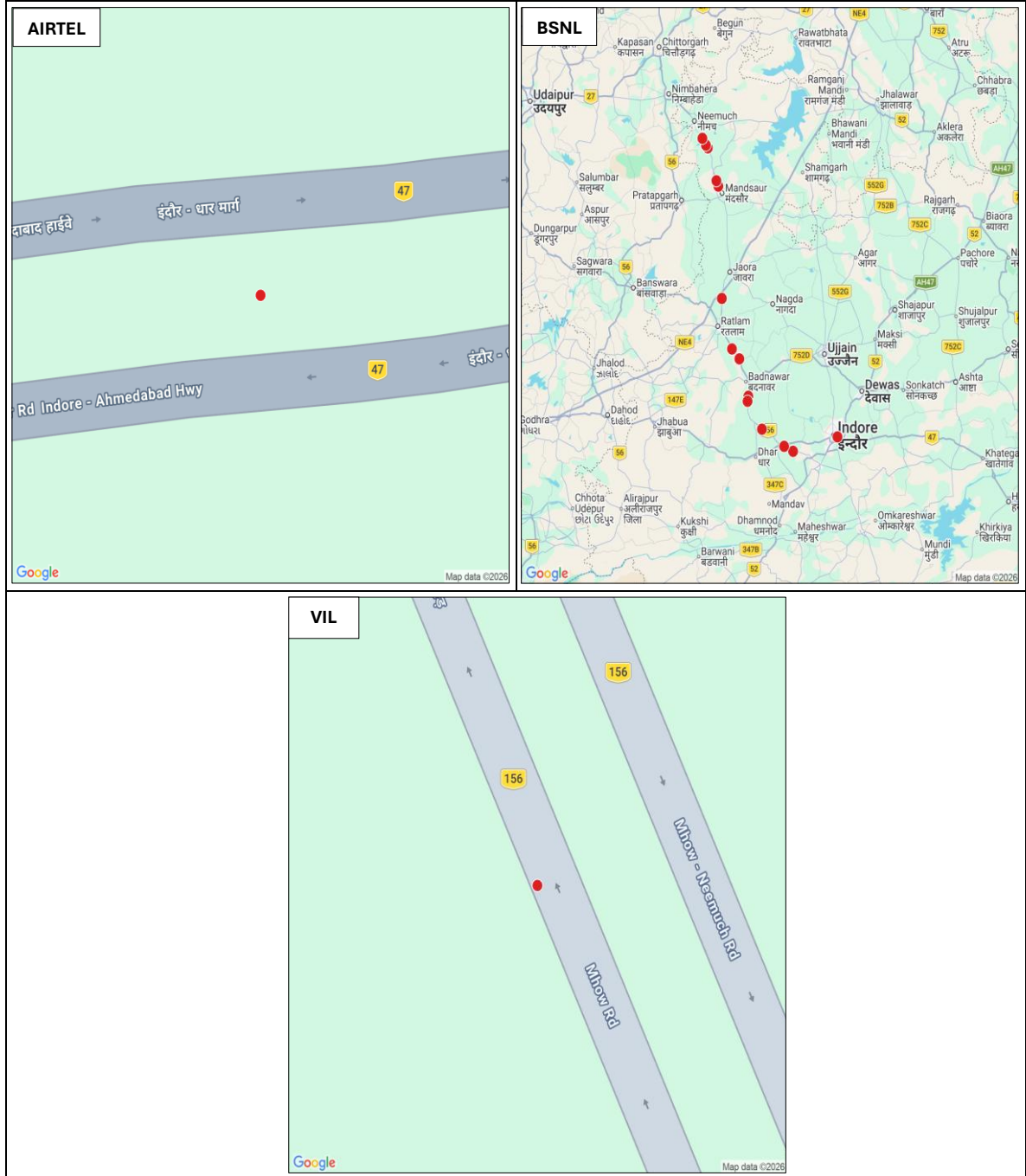


Note: Plot is based on Dynamic Drive Test results only.

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	120	116	125	118
Number of dropped Calls	1	14	0	1

Locations of Dropped Calls

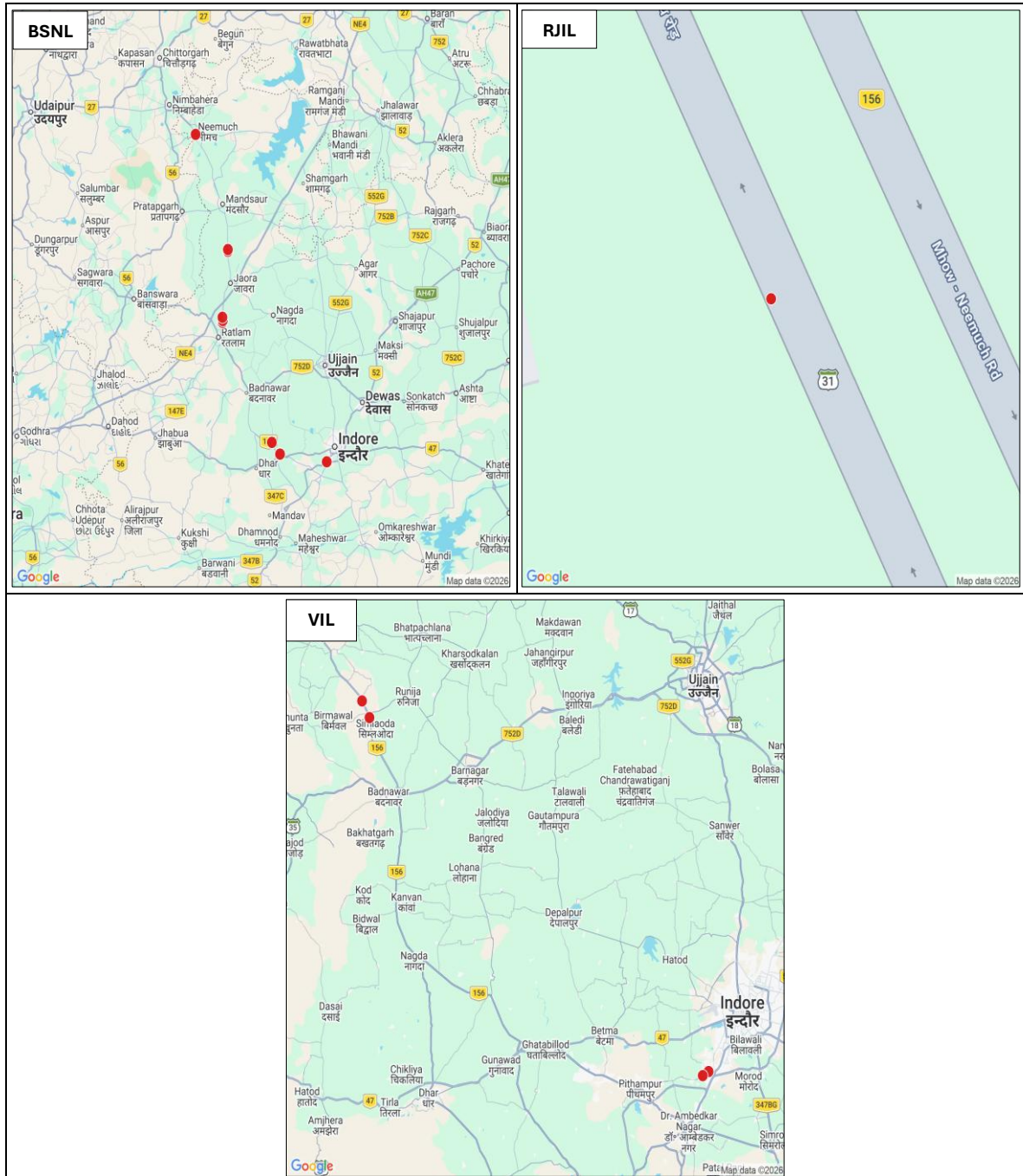


Note: Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the maps.

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)	101	117	101	101
Number of silences calls for >3 Sec	0	10	1	4
Total number of silence instances for >3 Sec	0	11	1	4

Locations of Call Silence Instance

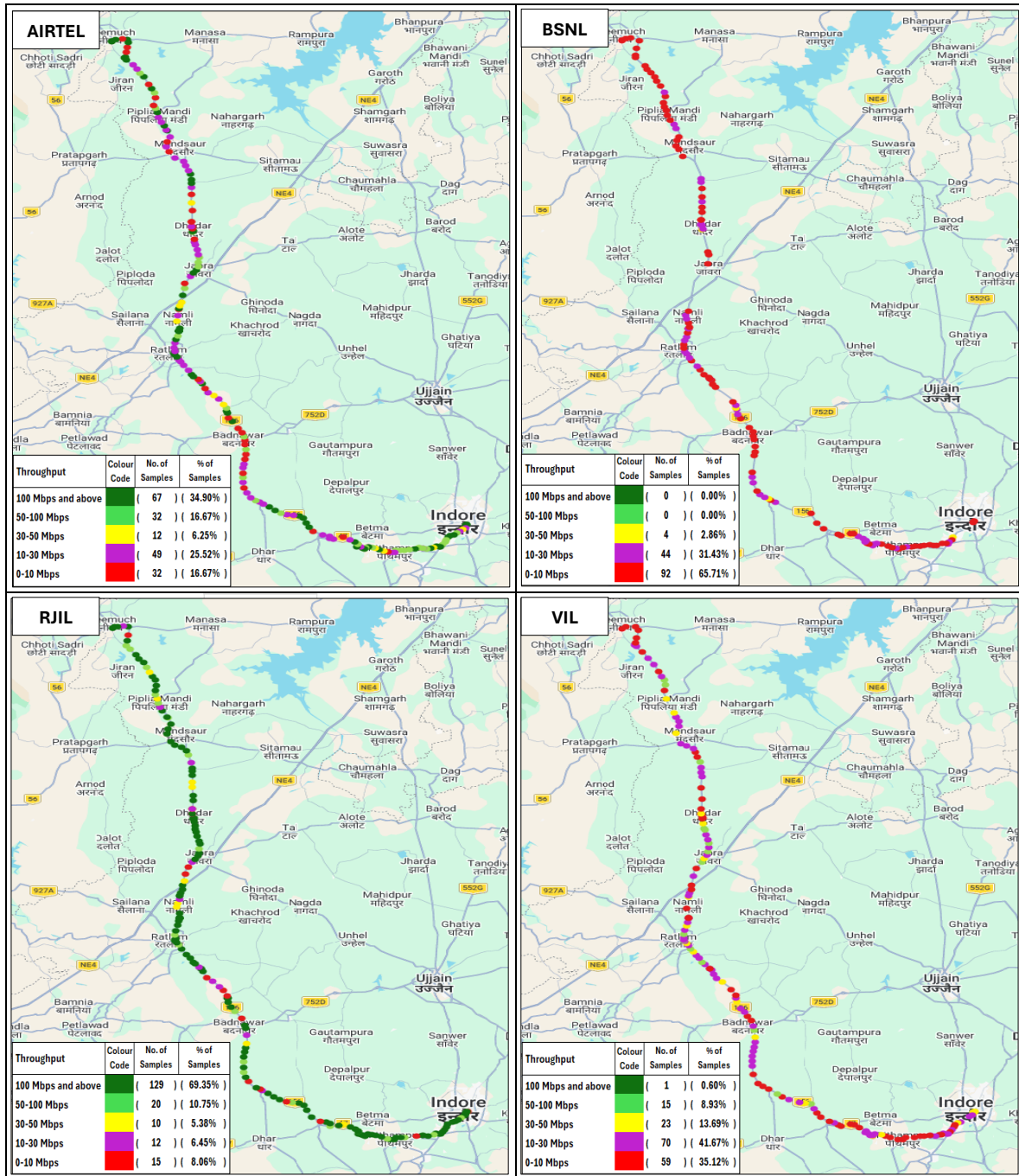


Note: Call silence instances are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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

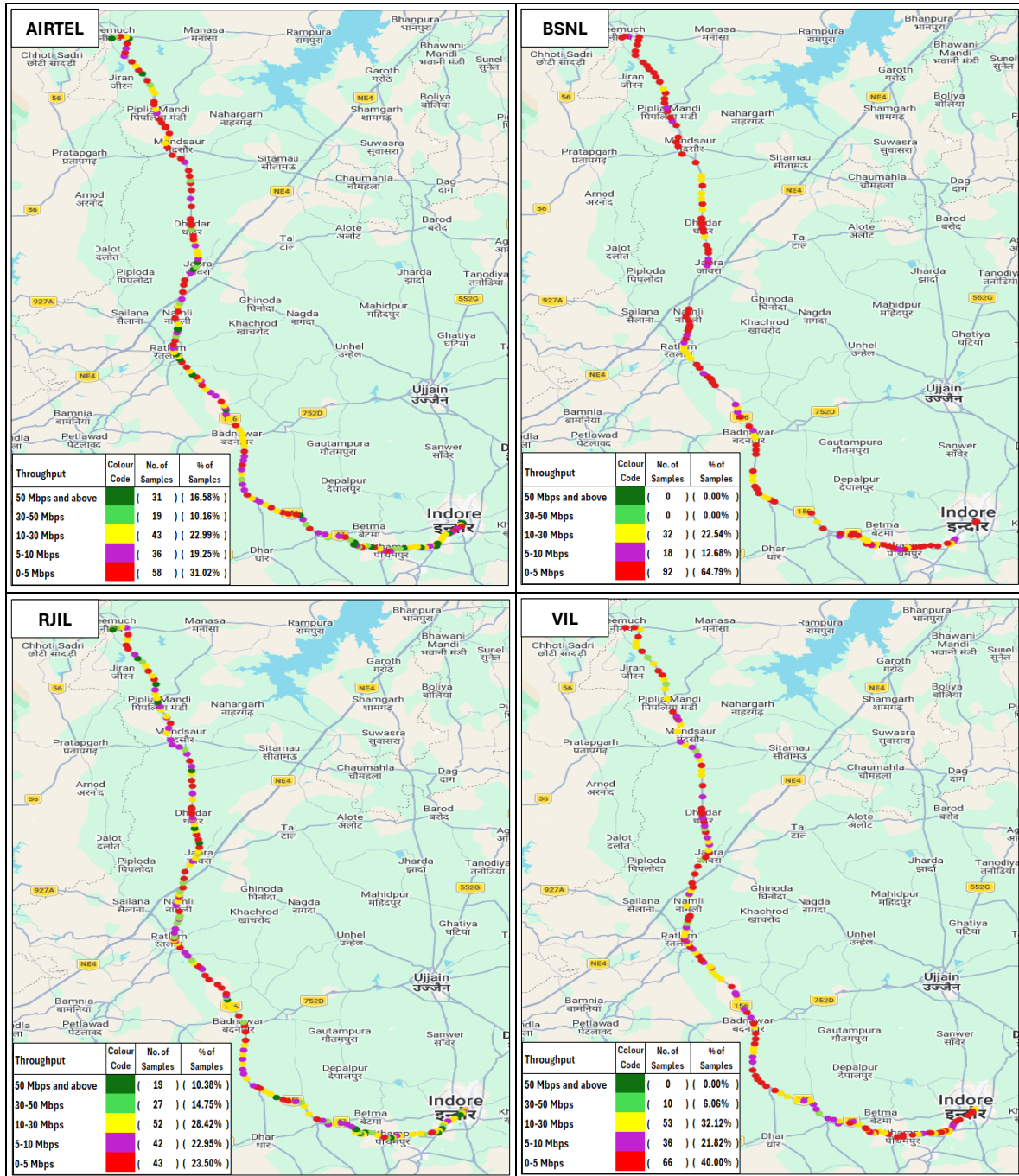
Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 5G)
Typical Download throughput declared by TSP	(Mbits/s)	18.53	5.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	86.90	9.13	216.50	21.44



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 5G)
Typical upload throughput declared by TSP	(Mbits/s)	2.84	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	20.84	5.80	19.30	10.71



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

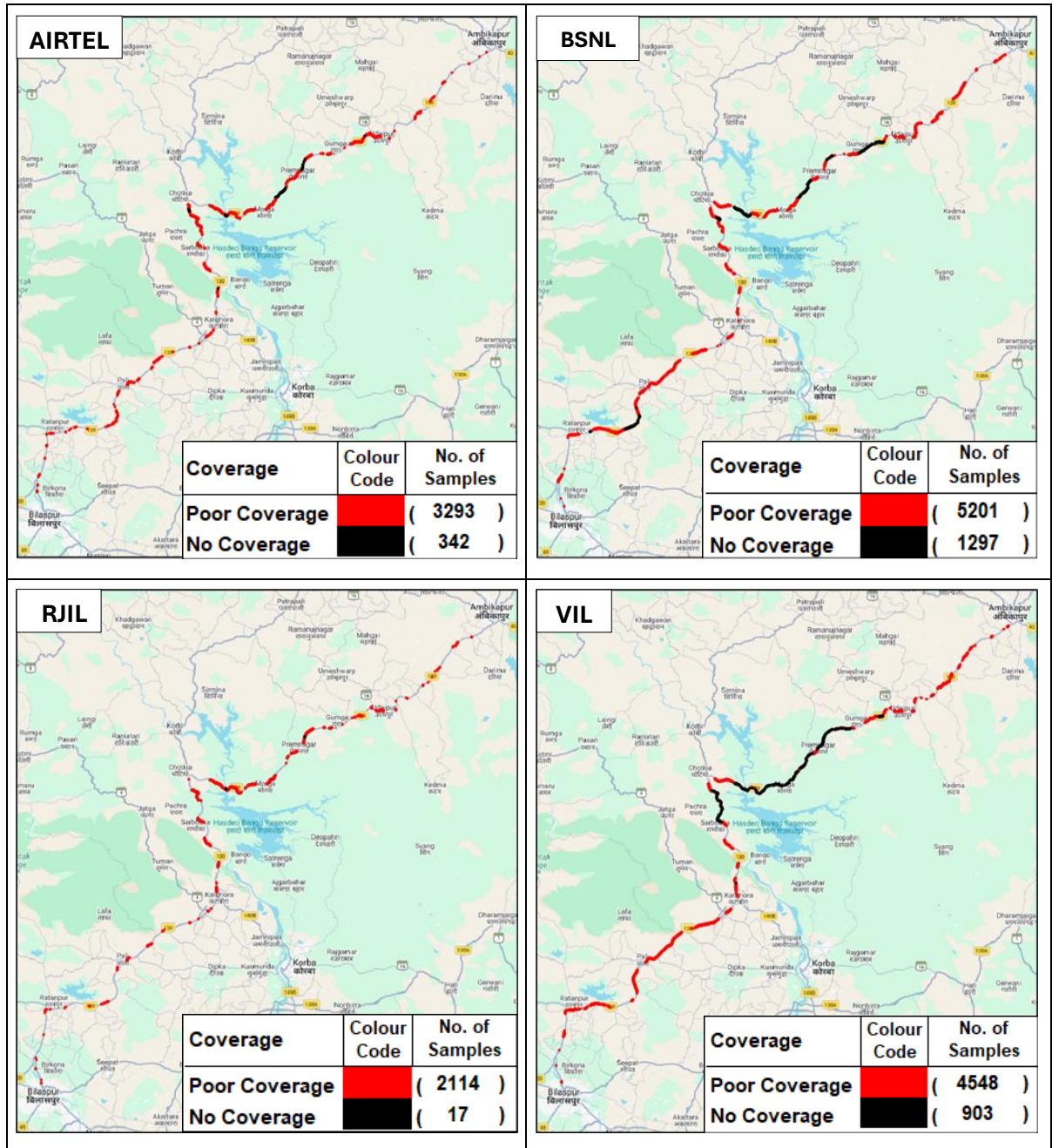
3. Bilaspur to Ambikapur Highway:

- 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	17114	15288	17806	14622
Number of Samples having poor signal strength	3293	5201	2114	4548
Number of Samples having limited service (No Coverage)	342	1297	17	903

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

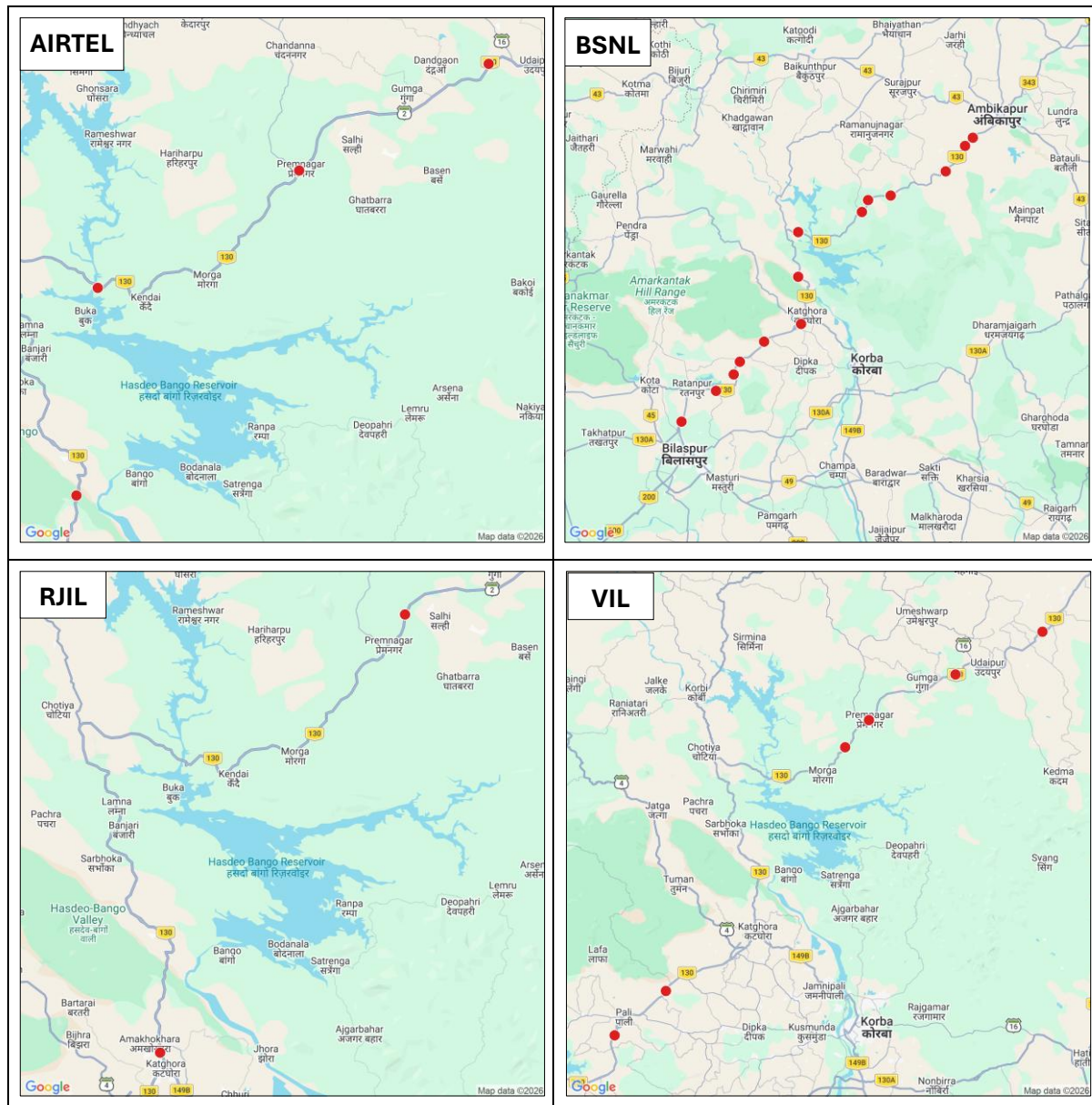


Note: Plot is based on Dynamic Drive Test results only.

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	86	71	90	74
Number of dropped Calls	4	14	2	6

Locations of Dropped Calls

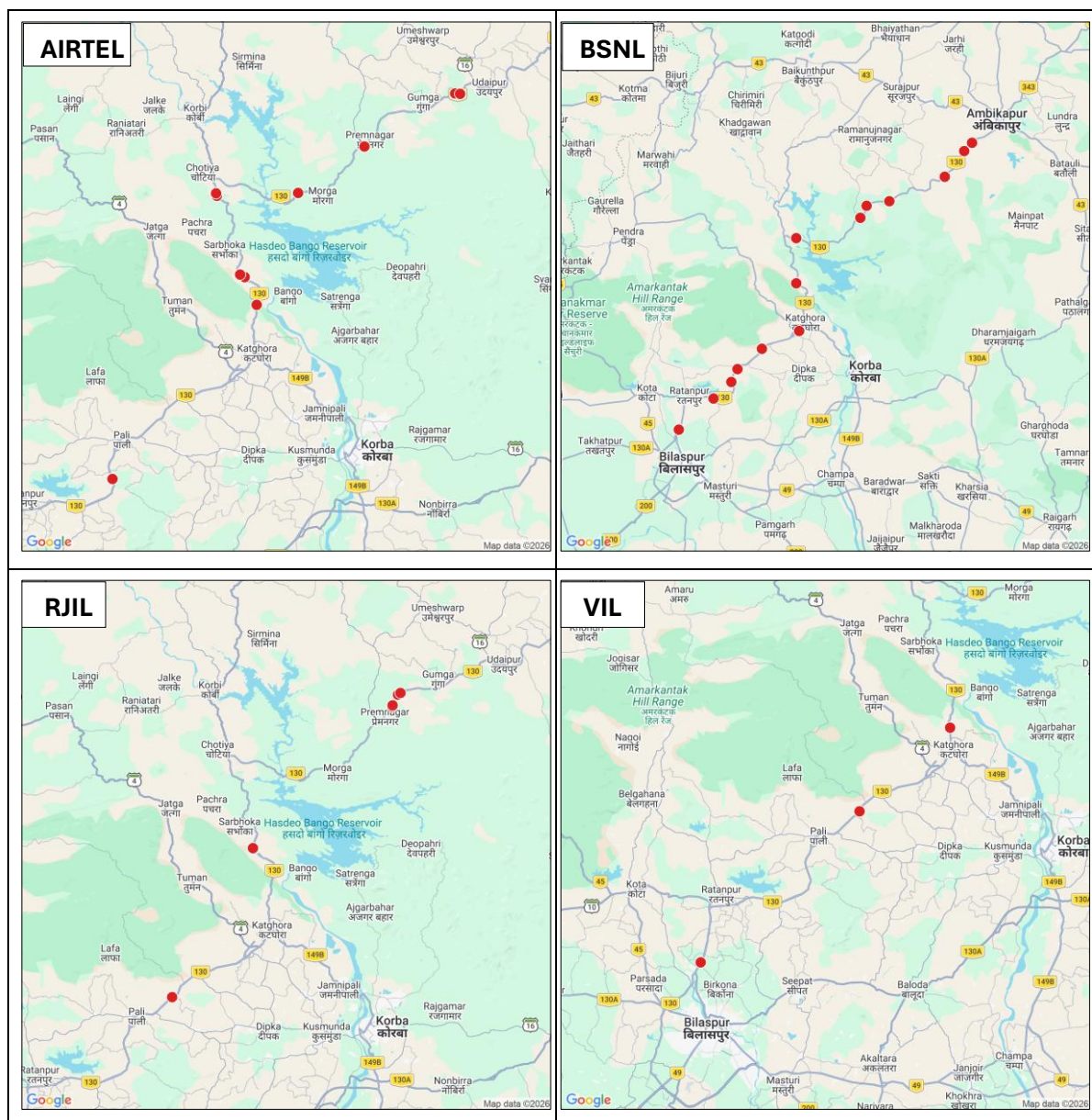


Note: Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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)	77	87	78	63
Number of silences calls for >3 Sec	7	8	4	3
Total number of silence instances for >3 Sec	10	14	7	3

Locations of Call Silence Instance

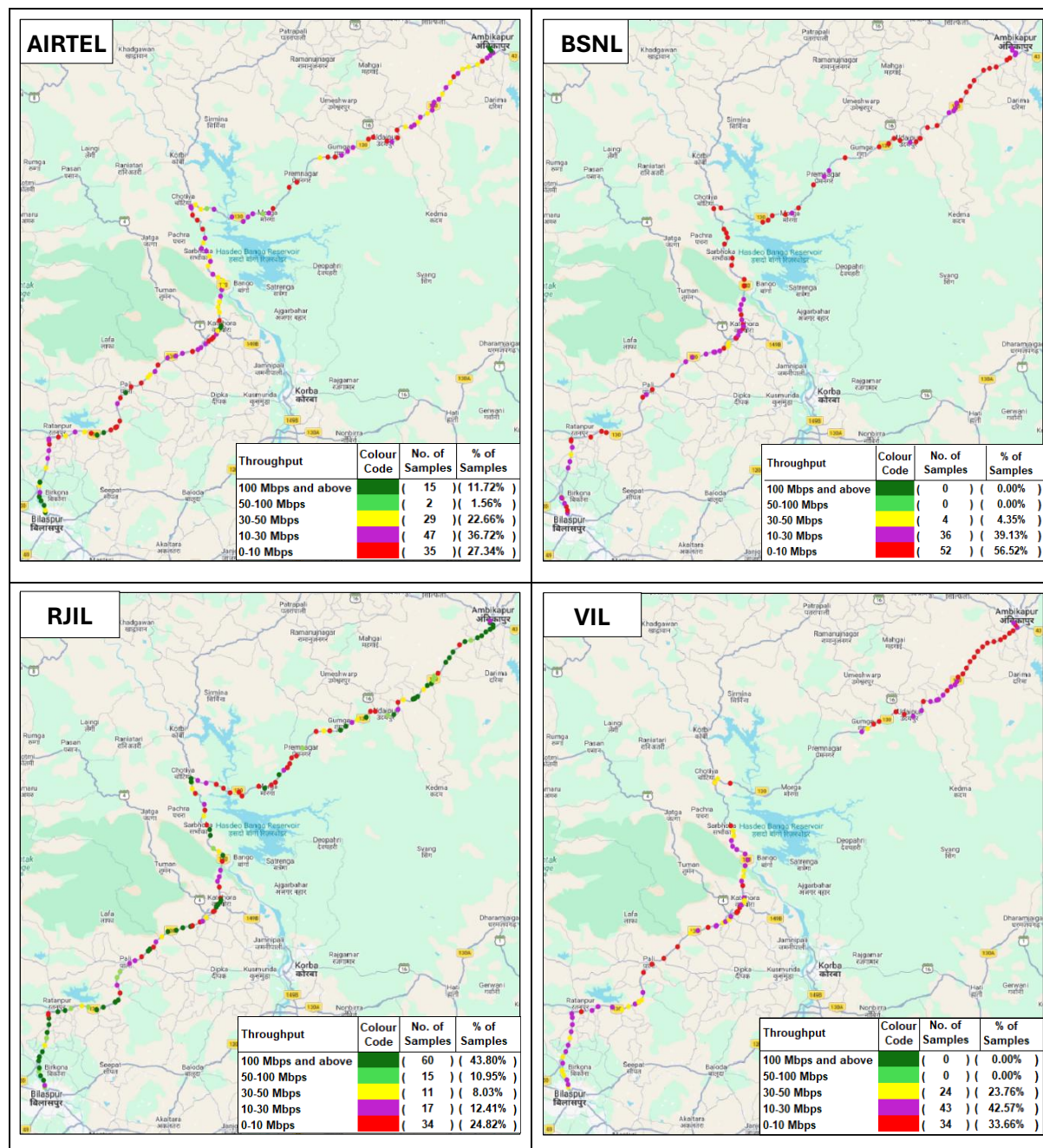


Note: Call silence instances are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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

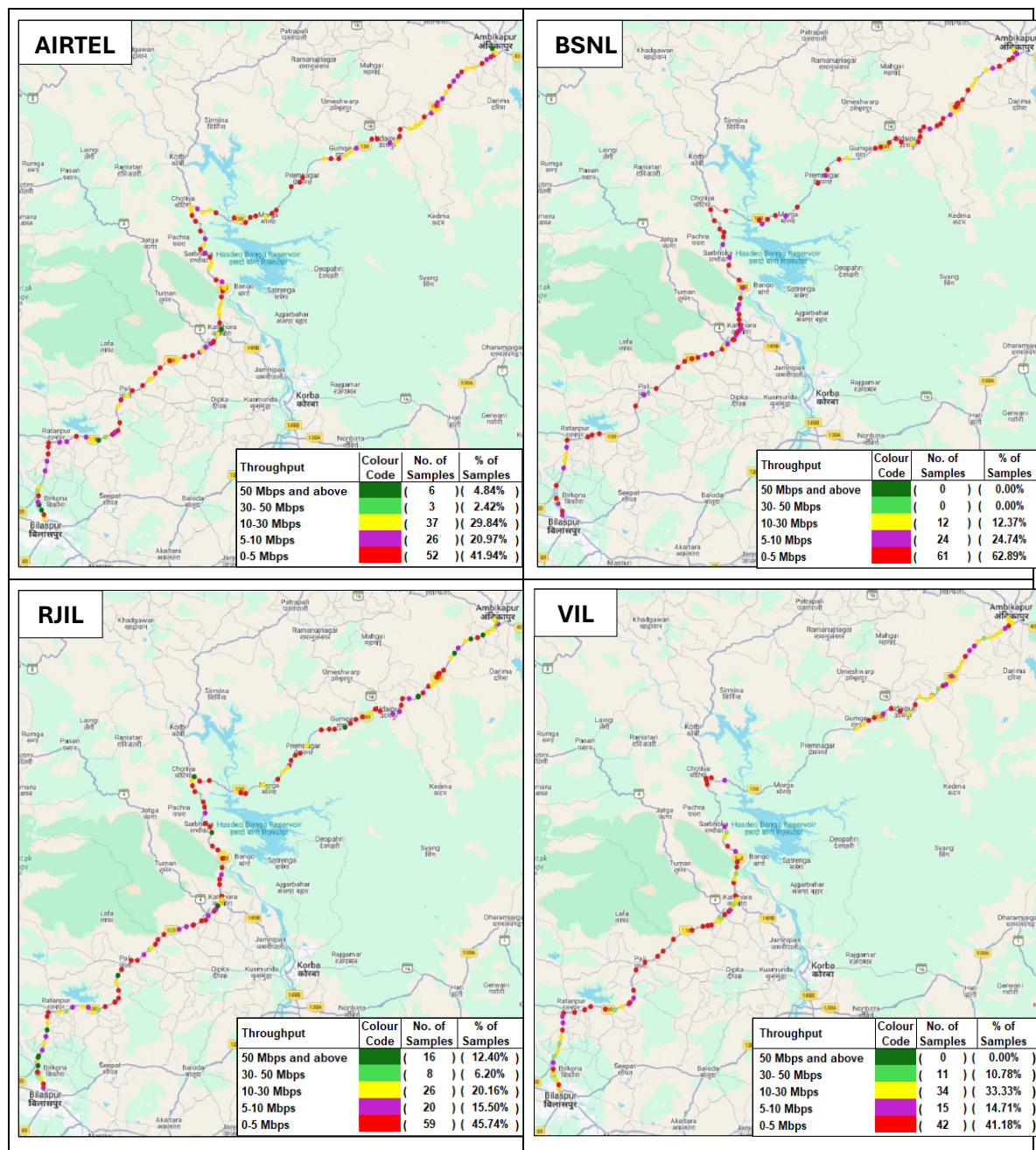
Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 4G)
Typical Download throughput declared by TSP	(Mbits/s)	18.53	5.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	40.32	10.76	150.95	17.99



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)	11.53	4.99	15.93	12.06



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