

TELECOM REGULATORY AUTHORITY OF INDIA

www.trai.gov.in

Bhopal, October 2026

For Immediate Release

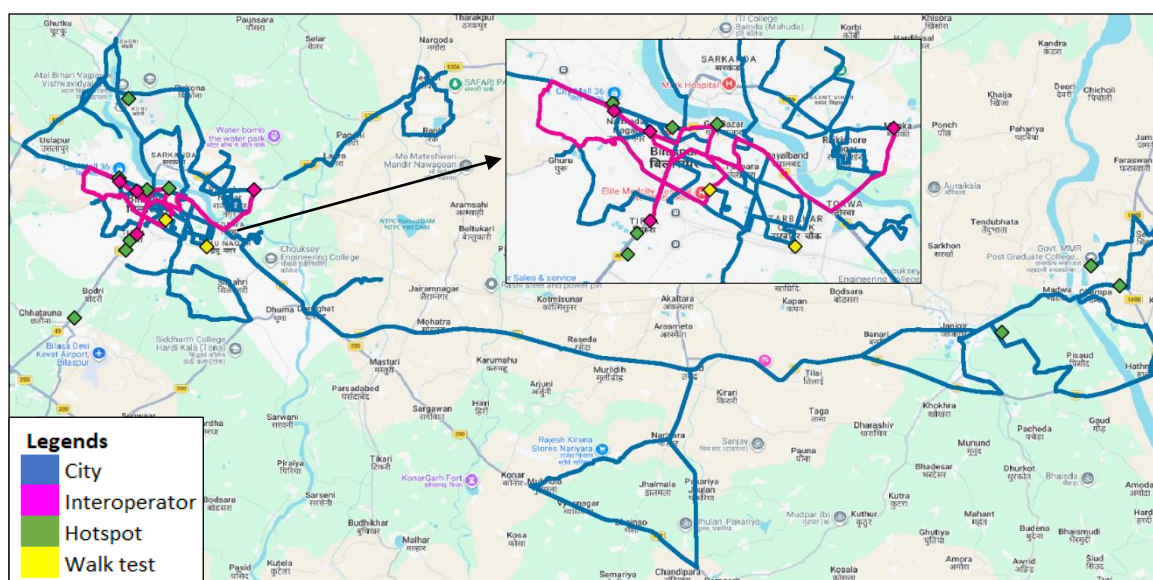
TRAI Assesses Mobile Network Quality Across Bilaspur and Janjgir-Champa City including Limtara, Darrighat, Torwa, Sirgitti, Basiya, Silpahri, Tarbahar chowk, Telipar, Gol Bazar, Rajkishore Nagar, Narmada Nagar, Birkona and Lokhandi etc in Bilaspur City & NH49, Paraghat toll, Taraod, Nariyara, Mulmula, Vyasnagar, Bhainso, Banahil, Amartal, Janjgir, Madwa, Jarwe, Udayband, Ghatoli, and Seoni etc in Janjgir-Champa City.

The Telecom Regulatory Authority of India (TRAI) has released findings of Independent Drive Test (IDT) conducted through its appointed agency across Bilaspur and Janjgir-Champa City under MP LSA, during the month of August 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 – 346.7 KMs in Bilaspur and Janjgir-Champa districts including 29.7 Inter Operator Calling & 3.6 Km walk Test in Bilaspur City from 17th August 2026 to 20th August 2026 in **MP 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: -

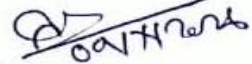


5. Key Parameters Assessed

- 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 Services:** Download/ Upload Throughput, Latency, Jitter, Packet Drop Rate
6. The overall mobile network performance in Bilaspur and Janjgir-Champa 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, were **523/ 36513** for **Airtel**, **1134/ 35925** for **BSNL**, **489/ 35197** for **RJIL** and **2019/ 36164** for **VIL** for Bilaspur City and **864/ 15028** for **Airtel**, **2846/ 14292** for **BSNL**, **676/ 13372** for **RJIL** and **2607/ 14570** for **VIL** for Janjgir-Champa City. 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 **1/ 325** for **Airtel**, **7/ 319** for **BSNL**, **1/ 306** for **RJIL** and **2/ 325** for **VIL** for Bilaspur City and **0/ 134** for **Airtel**, **1/ 126** for **BSNL**, **0/ 104** for **RJIL** and **3/ 164** for **VIL** for Janjgir-Champa City. 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 **6/ 319** for **Airtel**, **20/ 313** for **BSNL**, **3/ 310** for **RJIL** and **14/ 313** for **VIL** for Bilaspur City and **4/ 128** for **Airtel**, **4/ 116** for **BSNL**, **5/ 115** for **RJIL** and **14/ 127** for **VIL** for Janjgir-Champa City. 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 **128.61 Mbps** for **Airtel (5G)**, **12.33 Mbps** for **BSNL (4G)**, **177.88 Mbps** for **RJIL (5G)** and **21.58 Mbps** for **VIL (4G)** for Bilaspur City and **90.93 Mbps** for **Airtel (5G)**, **11.93 Mbps** for **BSNL (4G)**, **112.13 Mbps** for **RJIL (5G)** and **20.37 Mbps** for **VIL (4G)** for Janjgir-Champa. Detail of Download throughput has been provided in the map **Annexed**.
 - ii) **Data Upload performance (Overall):** Average upload speed was observed as **24.02 Mbps** for **Airtel (5G)**, **6.39 Mbps** for **BSNL (4G)**, **13.26 Mbps** for **RJIL (5G)** and **14.66 Mbps** for **VIL (4G)** for Bilaspur City and **17.09 Mbps** for **Airtel (5G)**, **5.50 Mbps** for **BSNL (4G)**, **8.59 Mbps** for **RJIL (5G)** and **10.91 Mbps** for **VIL (4G)** for Janjgir-Champa. 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 – Bilaspur District-** Limtara, Darrighat, Torwa, Sirgitti, Basiya, Silpahri, Tarbahar chowk, Telipar, Gol Bazar, Rajkishore Nagar, Narmada Nagar, Birkona and Lokhandi etc.
Janjgir-Champa District- NH49, Paraghat toll, Taraod, Nariyara, Mulmula, Vyasnagar, Bhainso, Banahil, Amartal, Janjgir, Madwa, Jarwe, Udayband, Ghatoli, and Seoni etc.

- b) **Hotspots:** Bilaspur Bus Stand Tifra, Bodri High Court, Champa Junction Railway Station, Chhattisgarh Institute of Medical Sciences, City Mall Bilaspur, Collector Office Bilaspur, District Hospital Janjgir, GEC Bilaspur, Govt. Mayuradhwaj Mahadani Raja Post Graduate College Champa, Maa Kali Mandir Tifra etc.
- c) **Walk Test:** Bilaspur Railway Station, Rama Magneto Bilaspur etc.

The finding 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.traigov.in. For any clarification or additional information, an email can be sent to adv.bhopal@traigov.in or Regional Office of TRAI at Bhopal RO can be contacted on telephone no. +91-755-2575501.



Sanjay Kumar Gupta
Advisor, RO Bhopal

Bilaspur 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	36513	35925	35197	36164
Number of Samples having poor signal strength	523	1134	489	2019
Number of Samples having limited service (No Coverage)	0	0	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

Figure-1: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-AIRTEL.

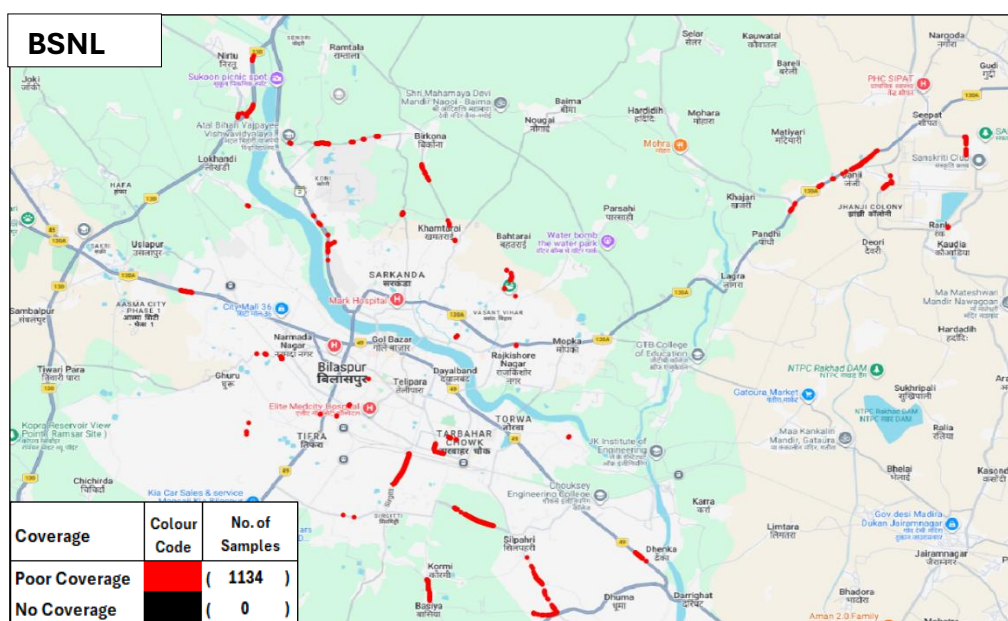


Figure-2: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-BSNL.

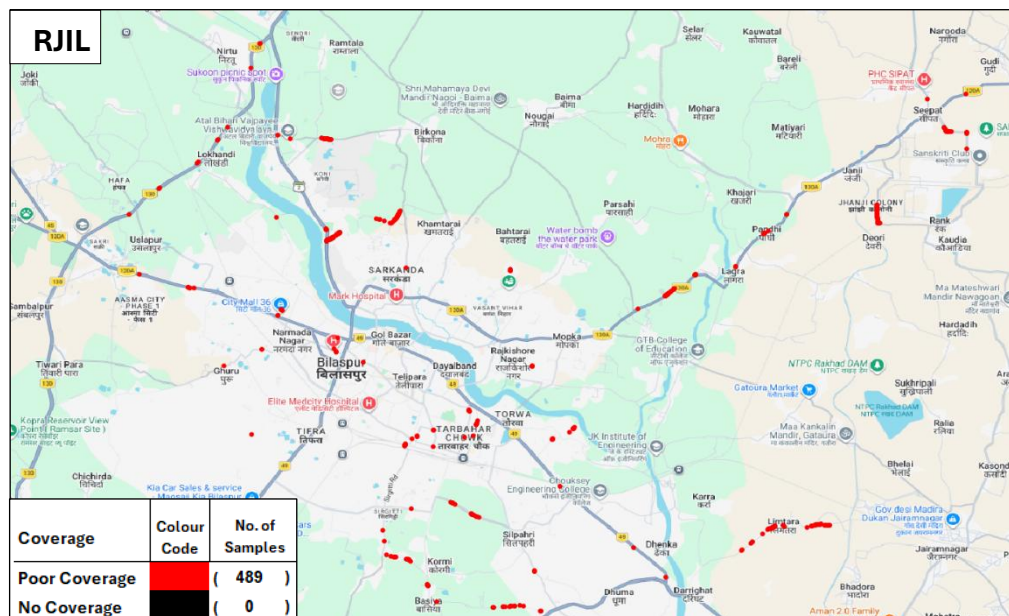


Figure-3: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-RJIL.

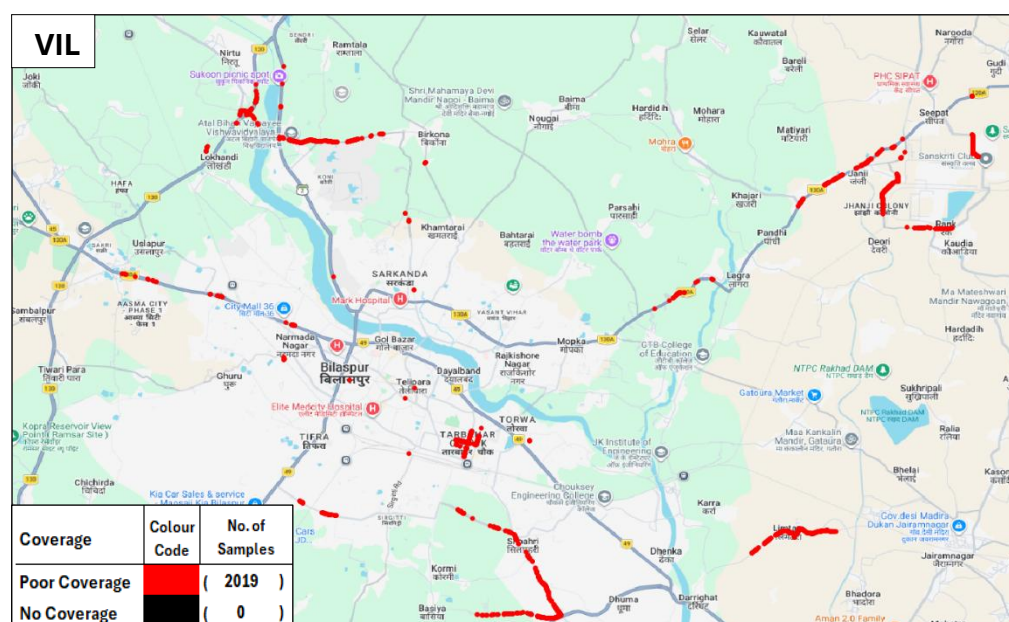


Figure-4: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-VIL.

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	325	319	306	325
Number of dropped Calls	1	7	1	2

Locations of Dropped Calls



Figure-5: Drop call locations in auto-selection mode (5G/4G/3G/2G) voice - Airtel.

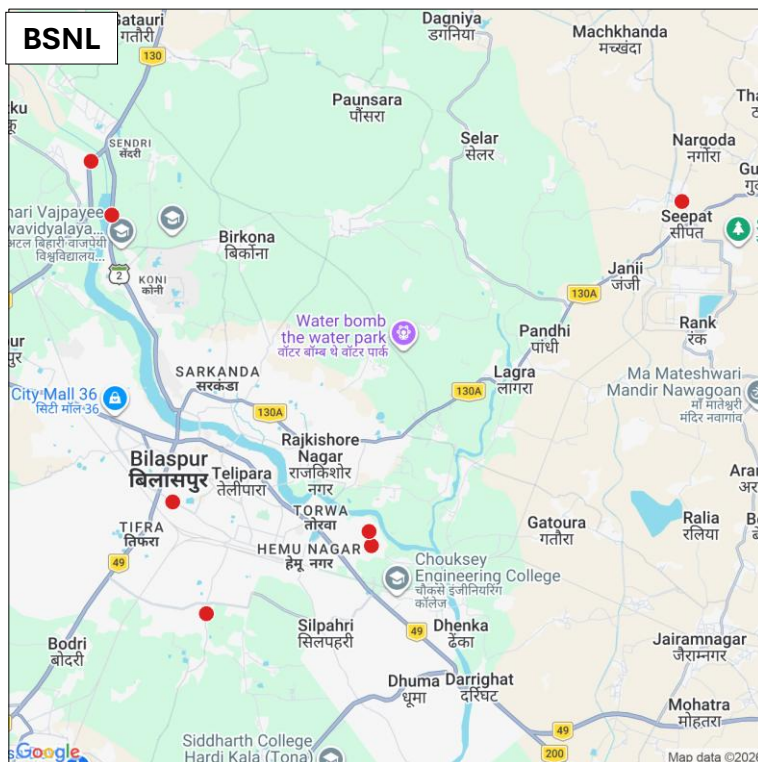


Figure-6: Drop call locations in auto-selection mode (5G/4G/3G/2G) voice - BSNL.

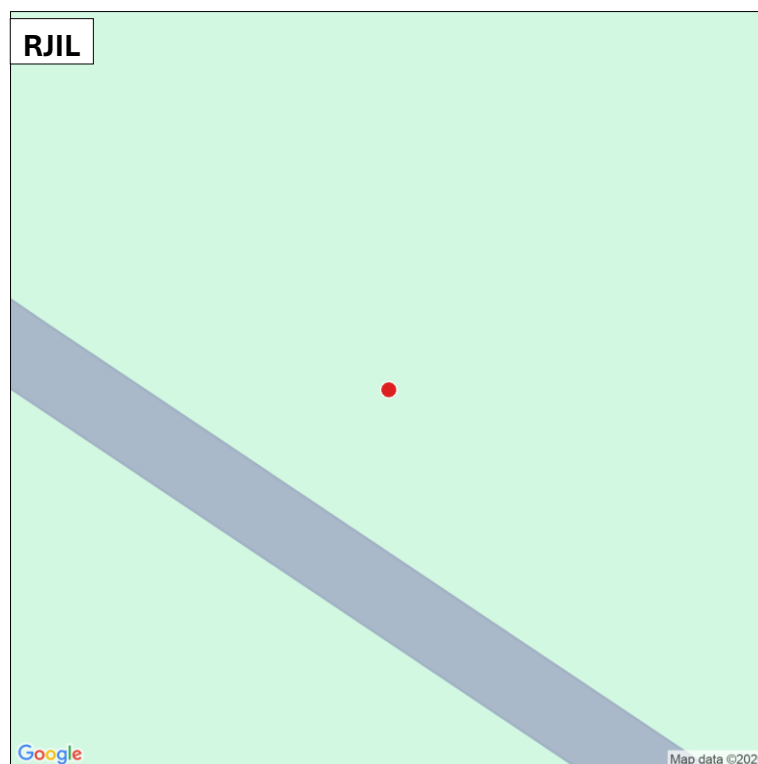


Figure-7: Drop call locations in auto-selection mode (5G/4G/3G/2G) voice - RJIL.

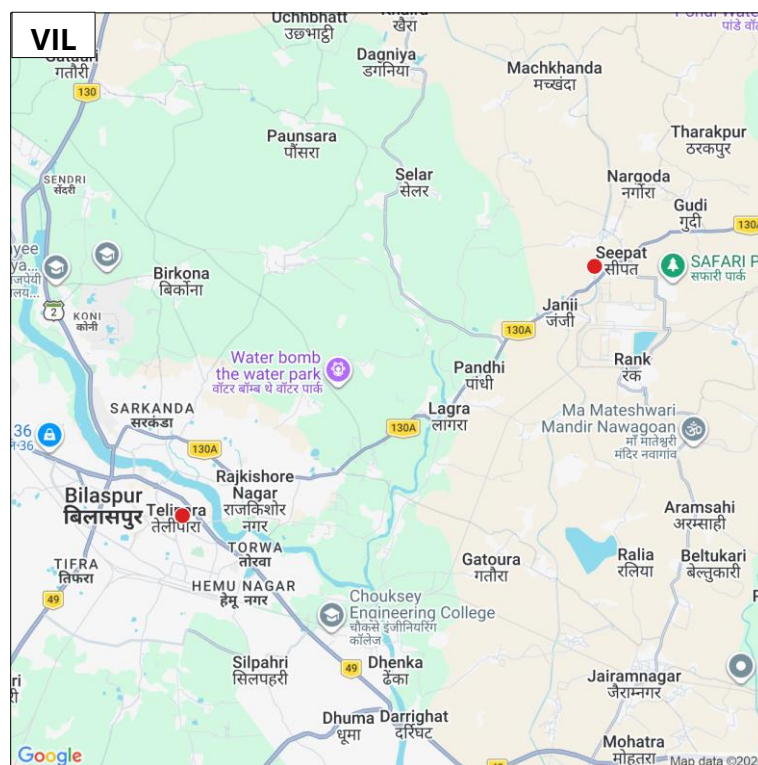


Figure-8: Drop call locations in auto-selection mode (5G/4G/3G/2G) voice - VIL.

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.

- a) 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)	319	313	310	313
Number of silences calls for >3 Sec	6	17	3	12
Total number of silence instances for >3 Sec	6	20	3	14

Locations of Call Silence Instance

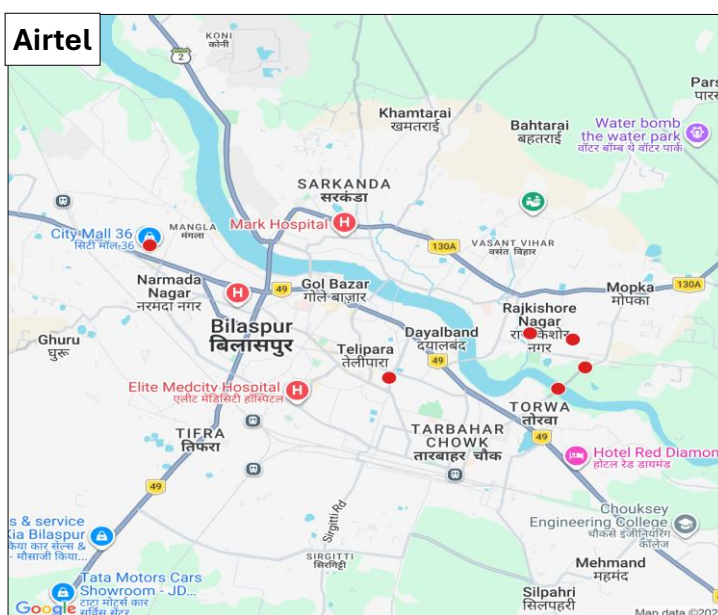


Figure-9: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode)- AIRTEL.

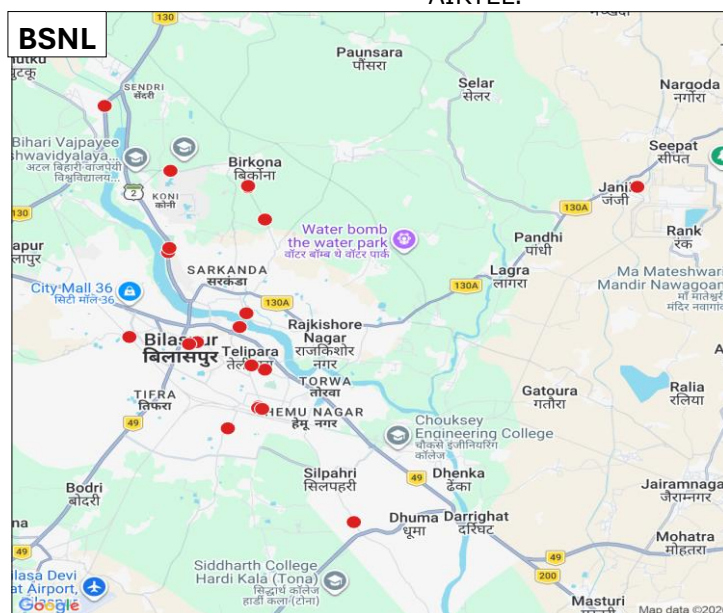


Figure-10: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode) – BSNL.

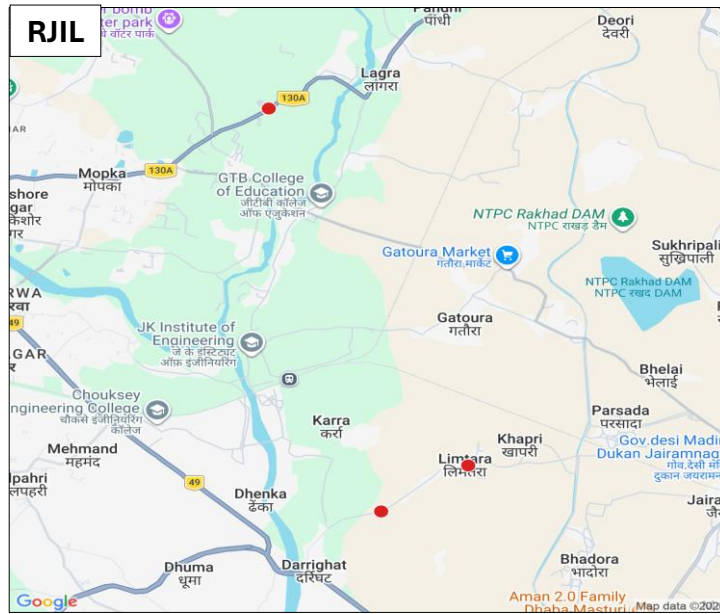


Figure-11: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode) - RJIL.

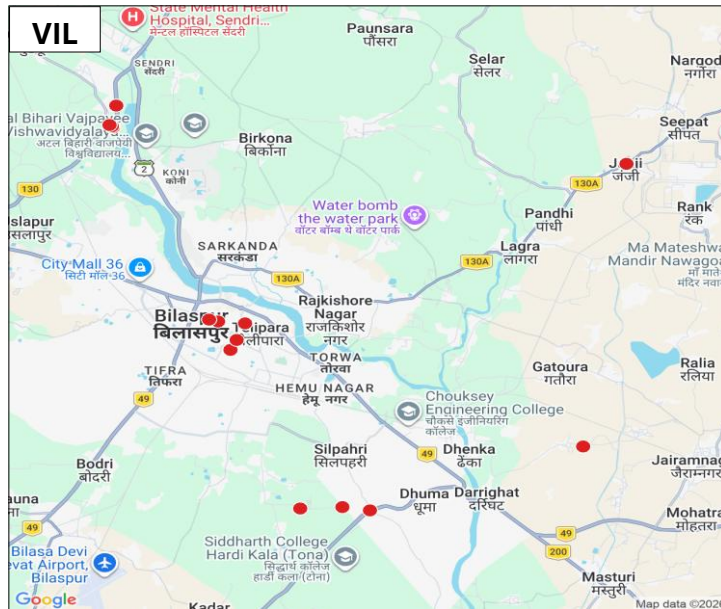


Figure-12: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode) - VIL.

Note: Call silence instances are shown in red color 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)	23.00	5.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	128.61	12.33	177.88	21.58

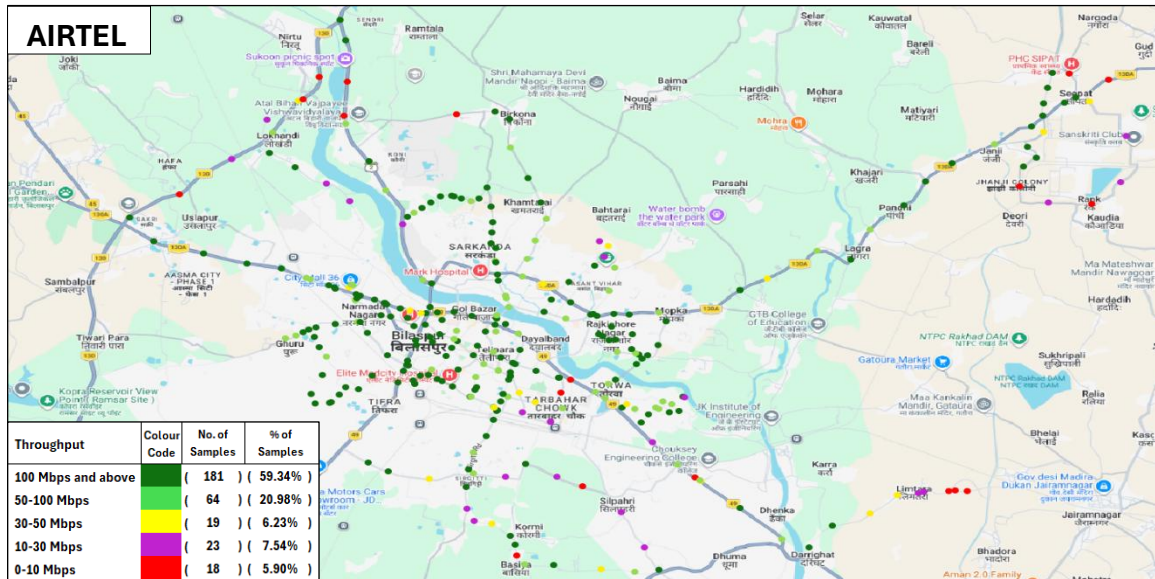


Figure-13: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - AIRTEL.

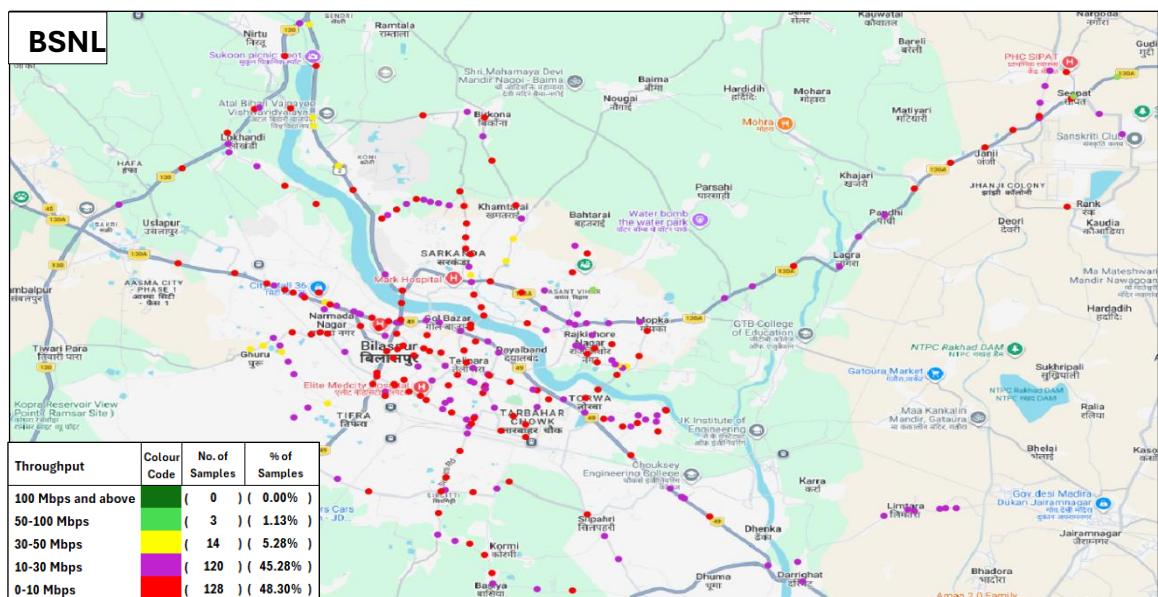


Figure-14: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - BSNL.

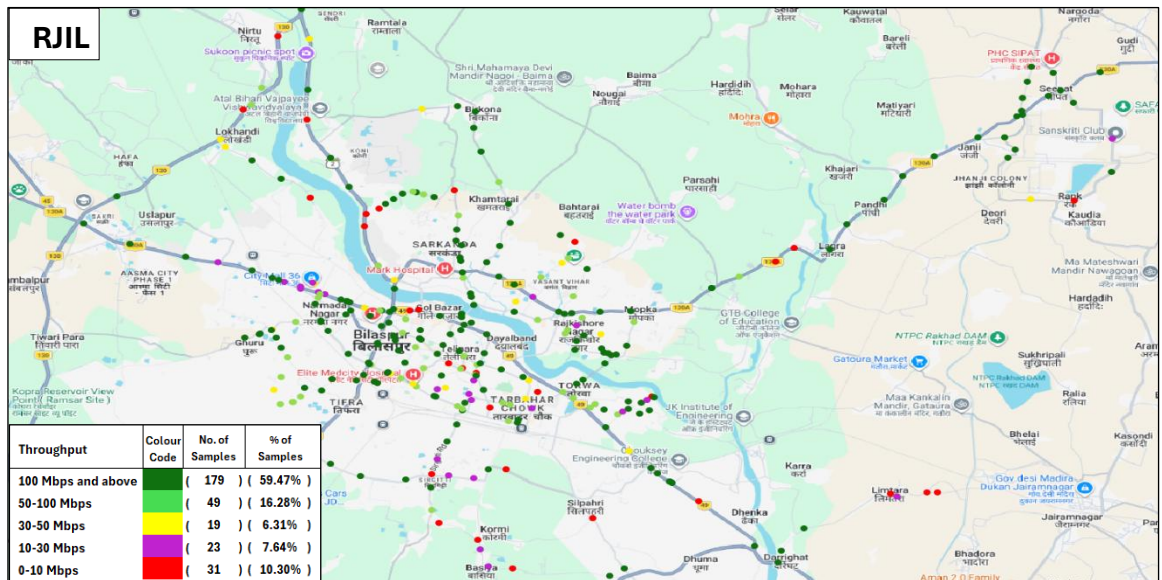


Figure-15: Download throughput distribution auto-selection mode (5G/4G/3G/2G) – RJIL.

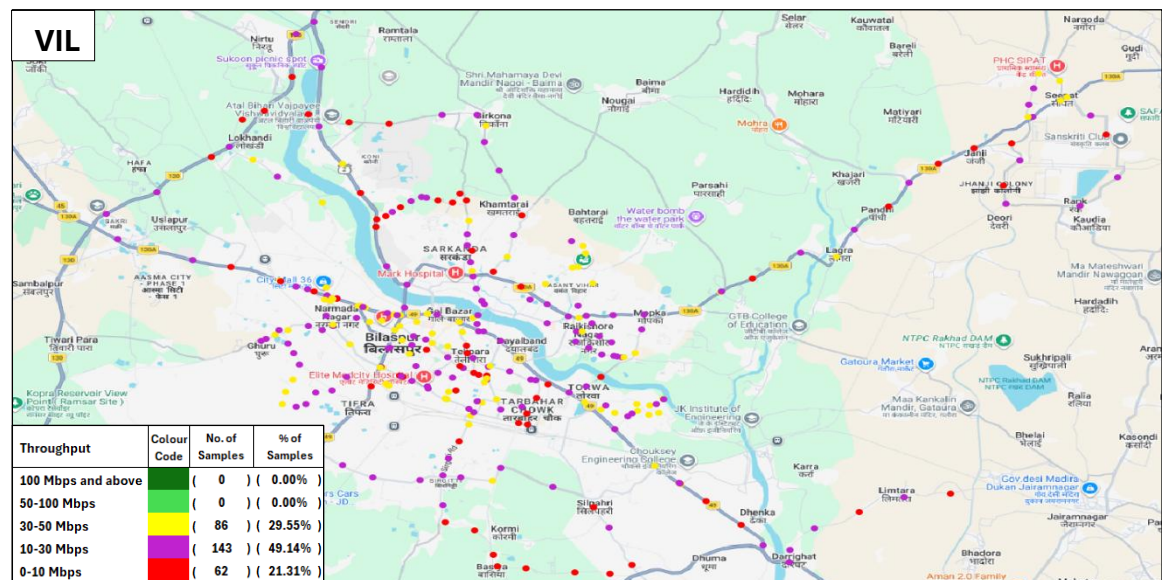


Figure-16: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - VIL.

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	(Mbps/s)	10.00	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbps/s)	24.02	6.39	13.26	14.66

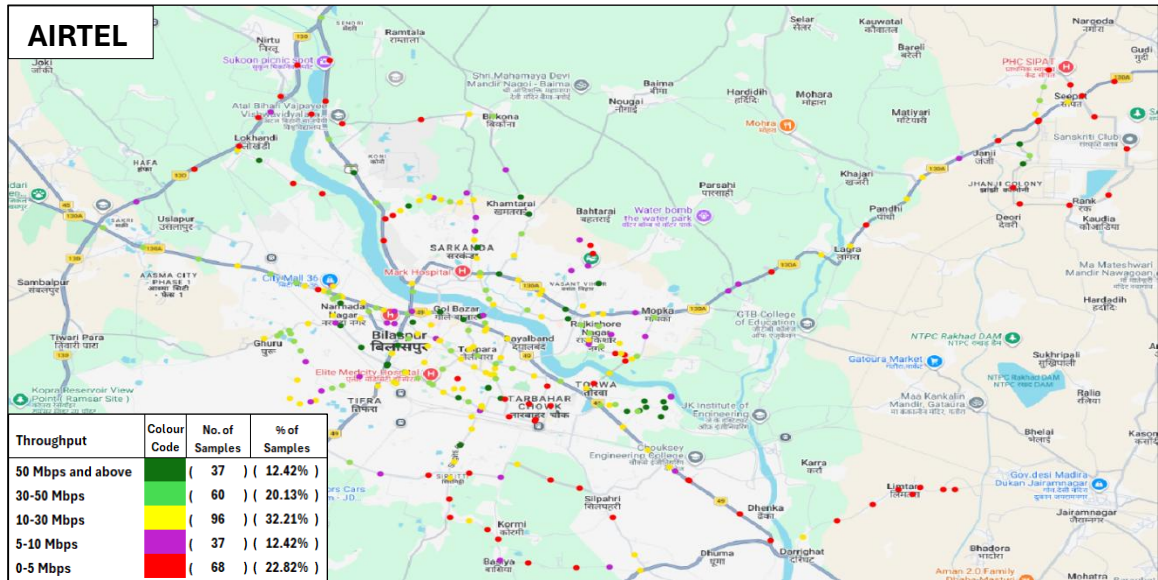


Figure-17: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) – AIRTEL.

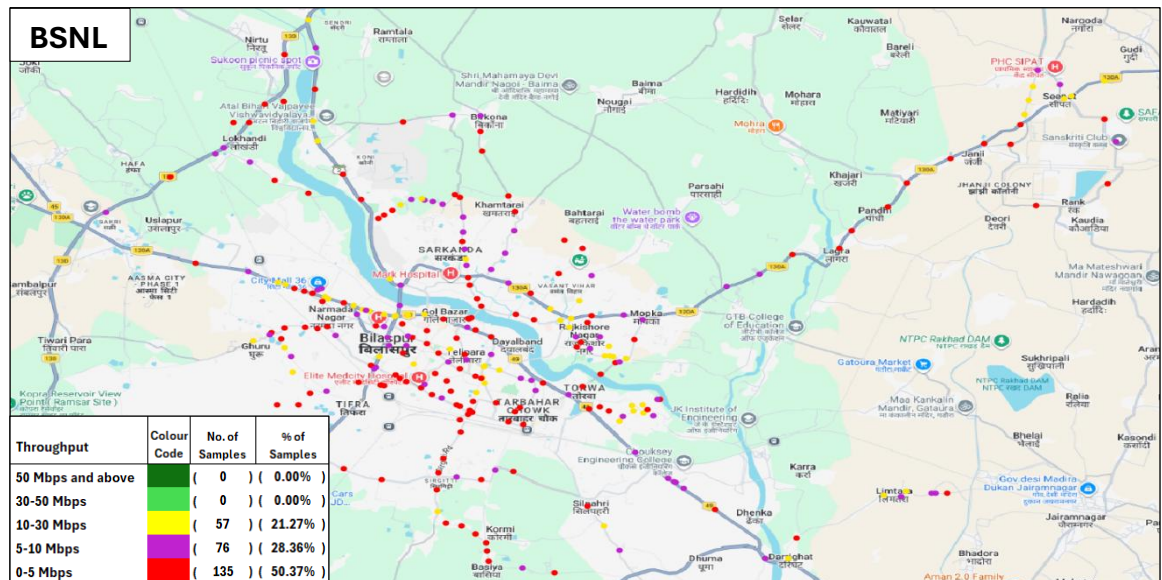


Figure-18: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - BSNL.

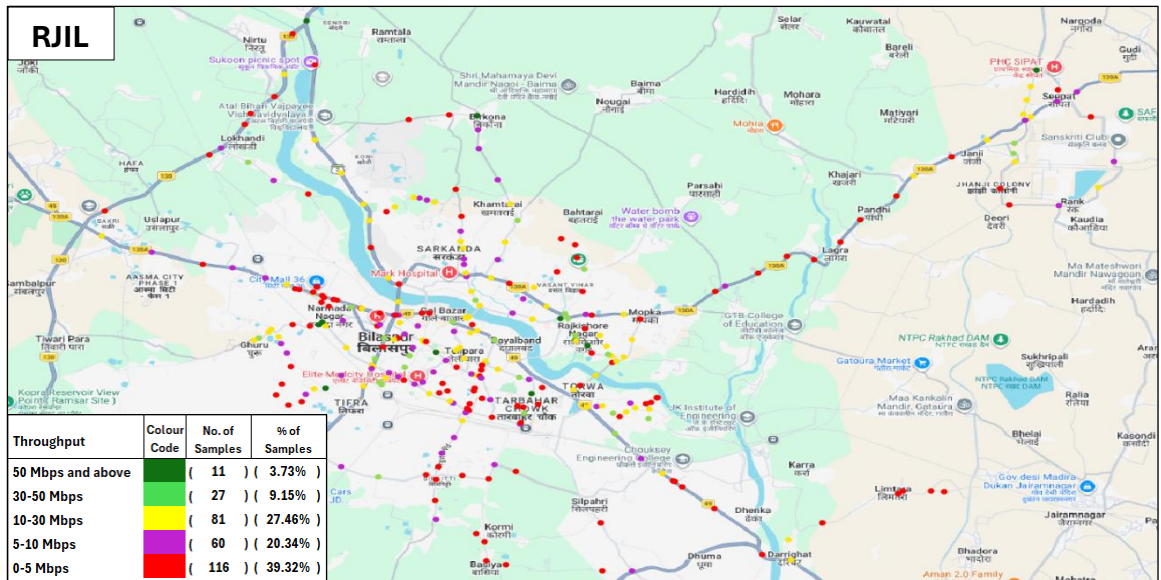


Figure-19: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - RJIL.

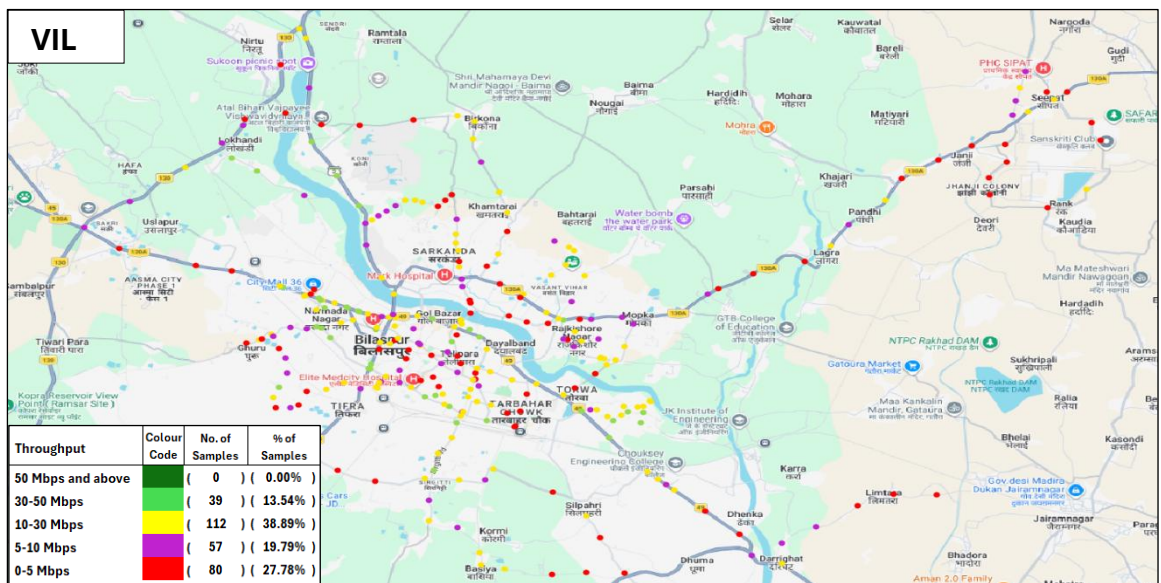


Figure-20: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - VIL.

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

Janjgir-Champa District: -

- 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	15028	14292	13372	14570
Number of Samples having poor signal strength	864	2846	676	2607
Number of Samples having limited service (No Coverage)	0	99	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

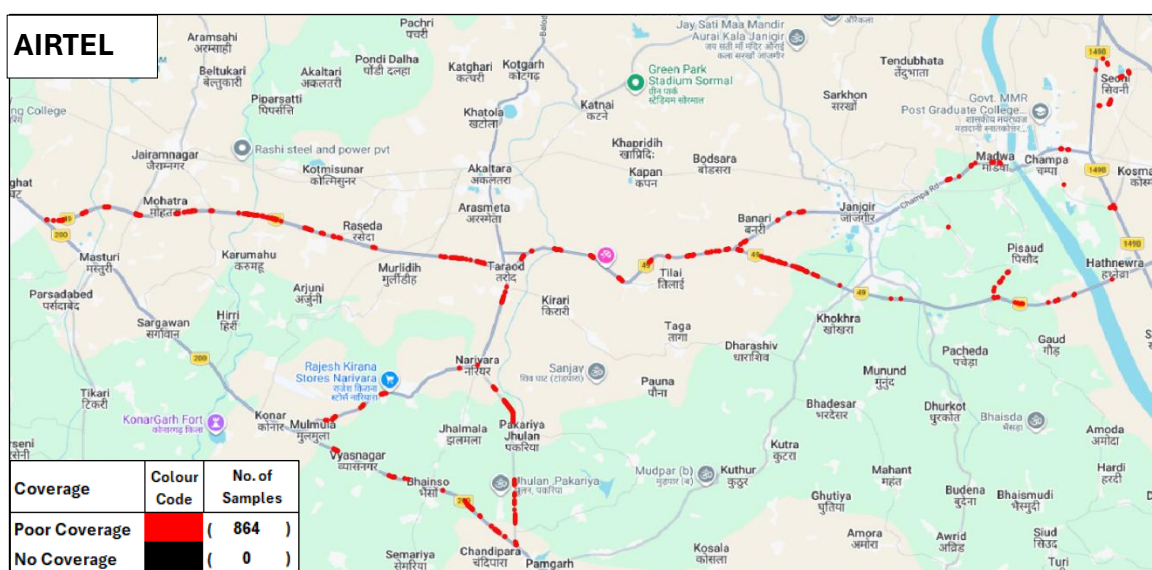


Figure-21: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-AIRTEL.

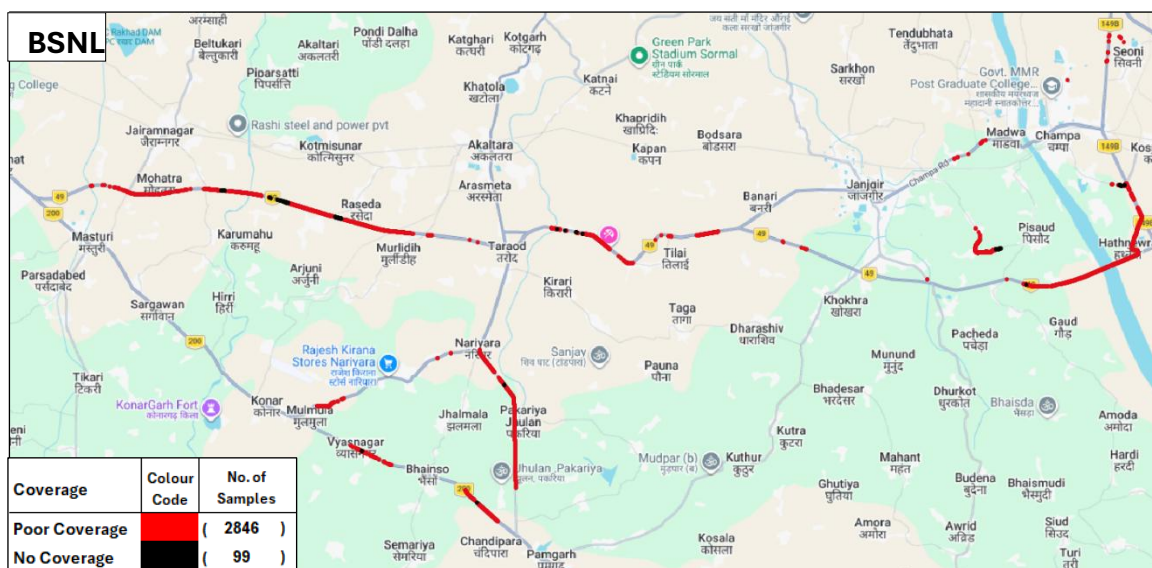


Figure-22: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-BSNL.

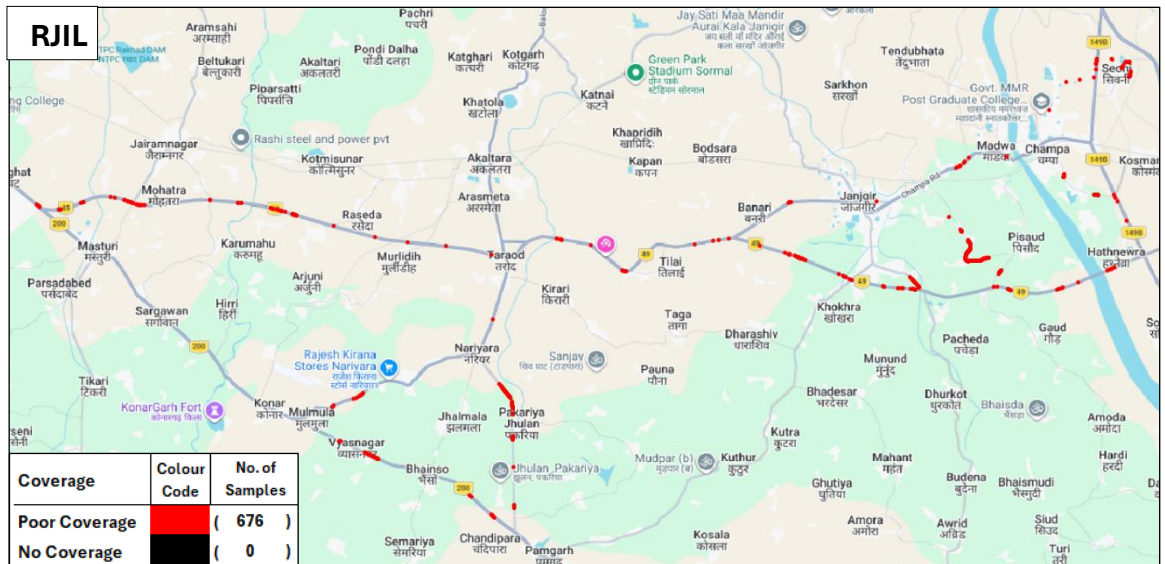


Figure-23: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-RJIL.

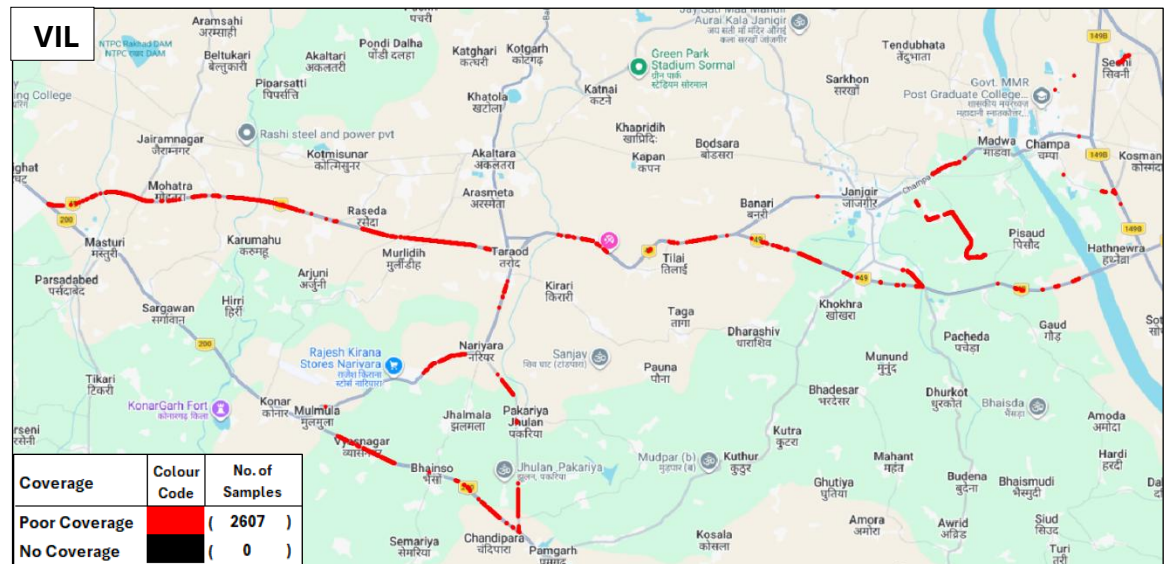


Figure-24: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-VIL.

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	134	126	104	164
Number of dropped Calls	0	1	0	3

Locations of Dropped Calls

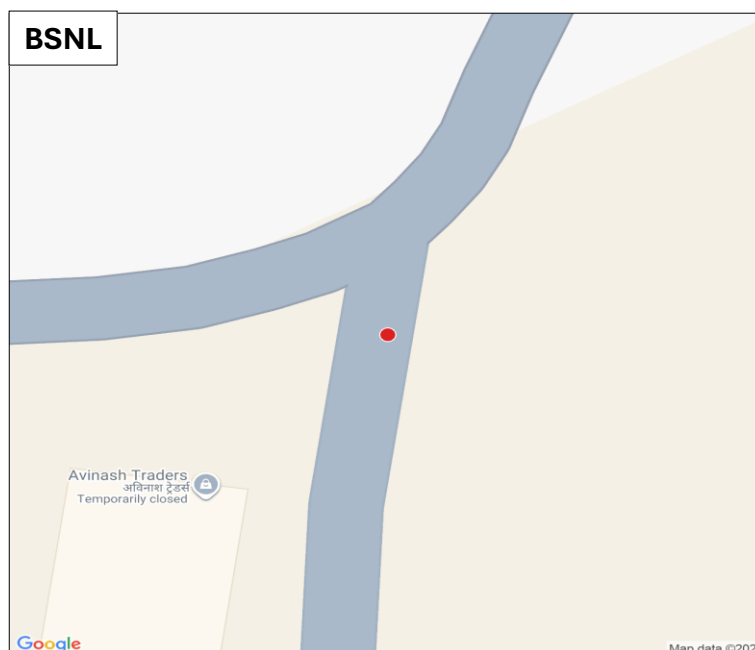


Figure-25: Drop call locations in auto-selection mode (5G/4G/3G/2G) voice - BSNL.



Figure-26: Drop call locations in auto-selection mode (5G/4G/3G/2G) voice - VIL.

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)	128	116	115	127
Number of silences calls for >3 Sec	4	3	4	10
Total number of silence instances for >3 Sec	4	4	5	14

Locations of Call Silence Instance

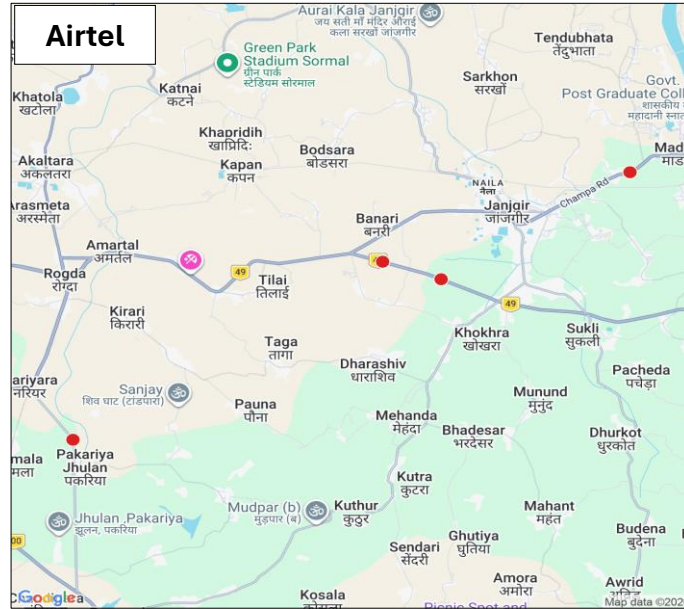


Figure-27: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode)-AIRTEL.



Figure-28: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode) - BSNL.

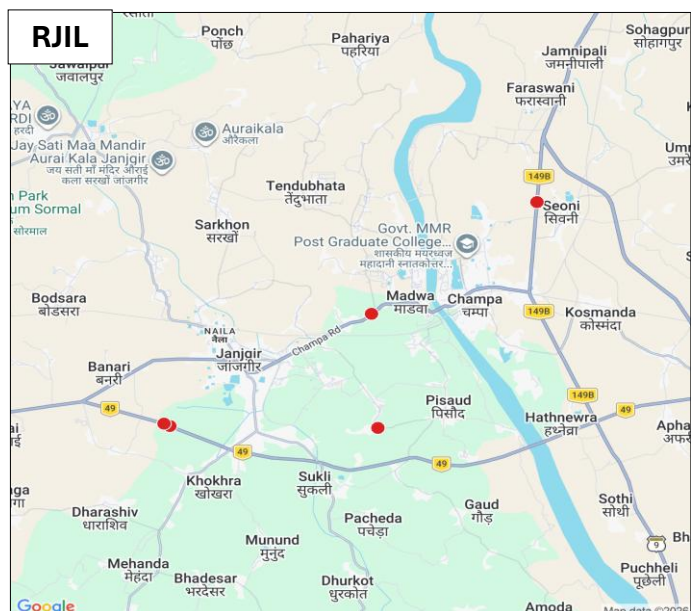


Figure-29: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode) - RJIL.

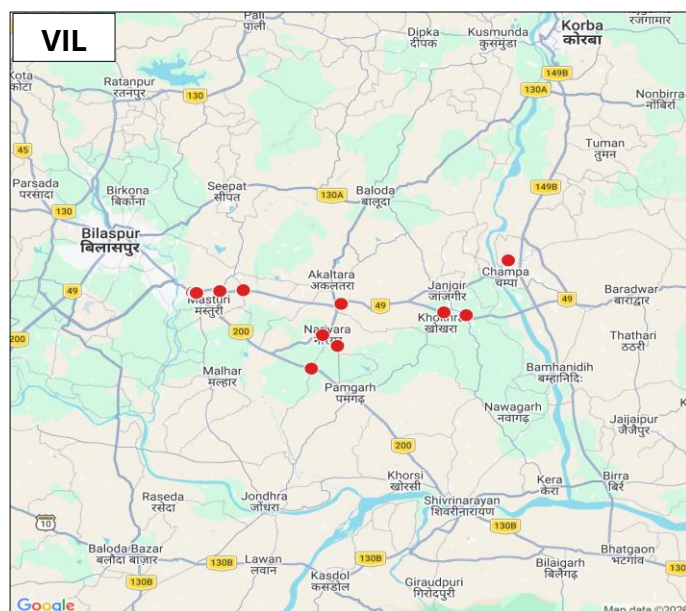


Figure-30: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode) - VIL.

Note: Call silence instances are shown in red color 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)	23.00	5.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	90.93	11.93	112.13	20.37

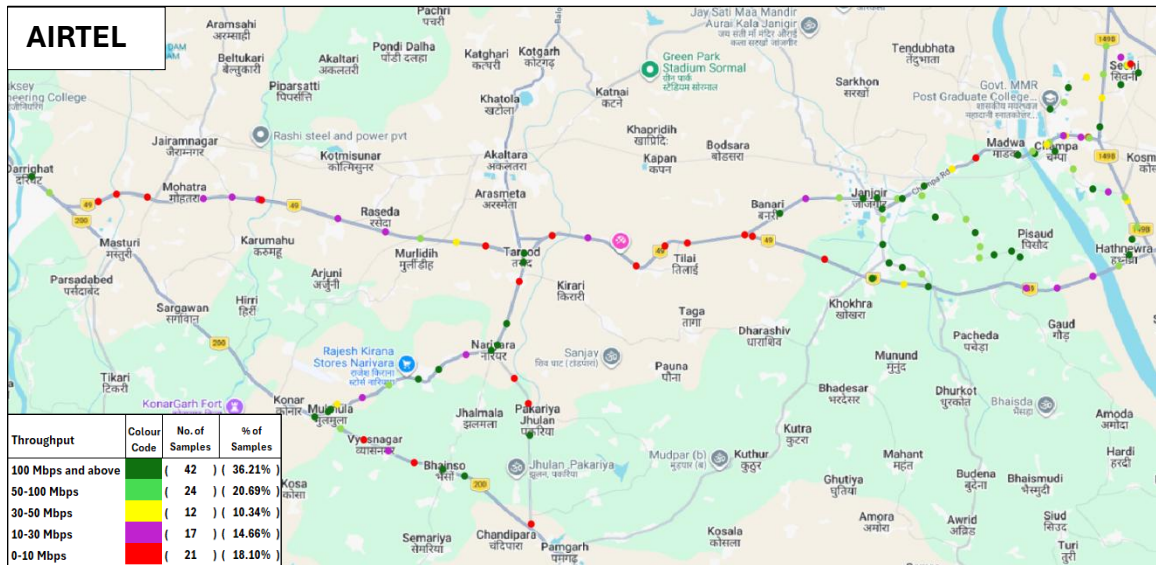


Figure-31: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - AIRTEL.

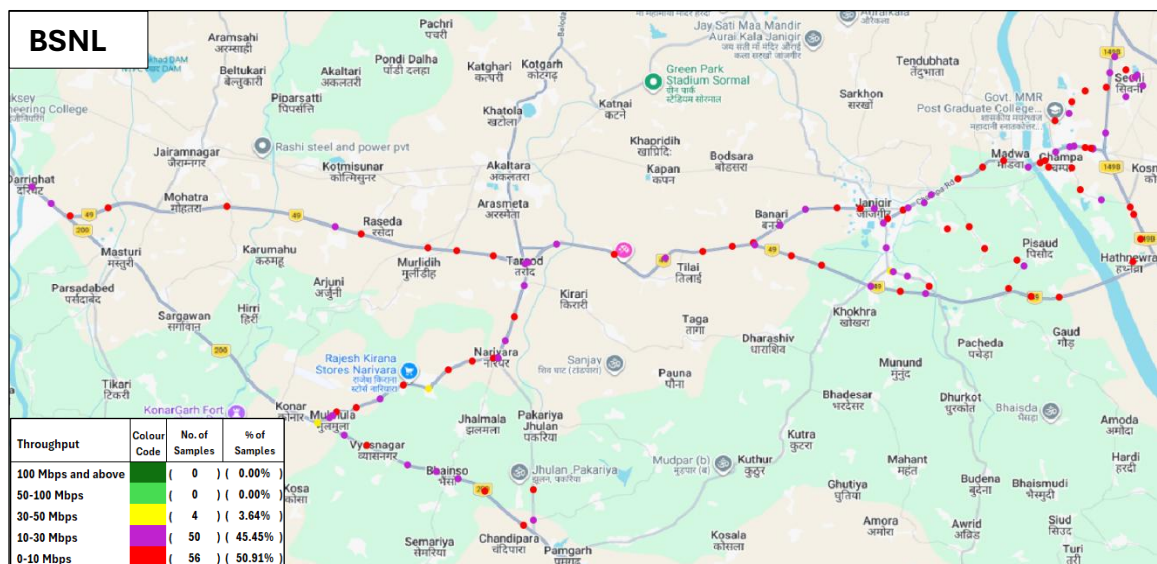


Figure-32: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - BSNL.

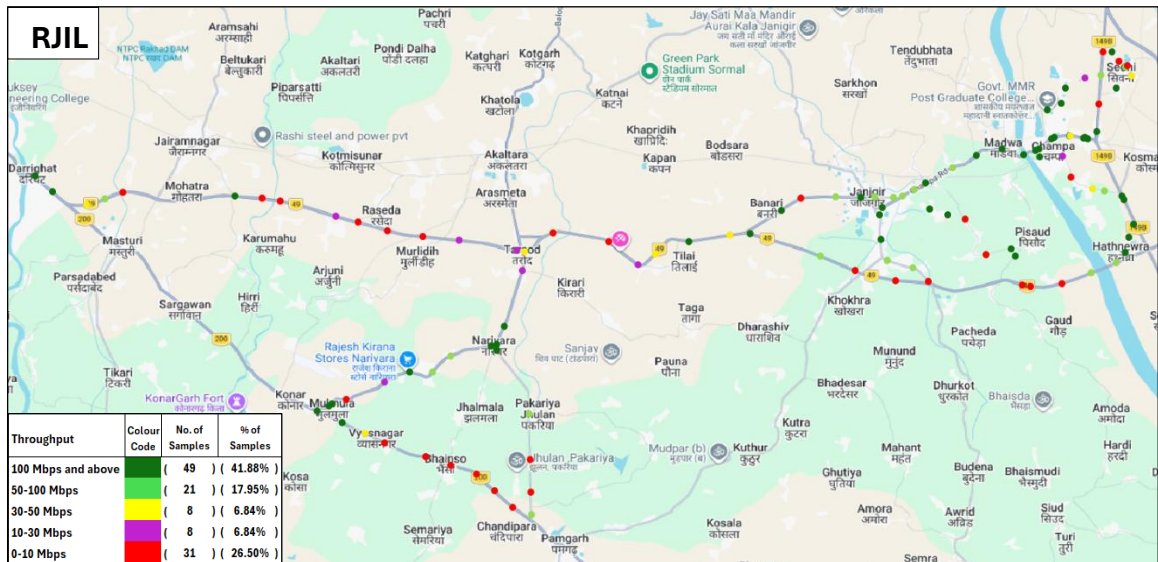


Figure-33: Download throughput distribution auto-selection mode (5G/4G/3G/2G) – RJIL.

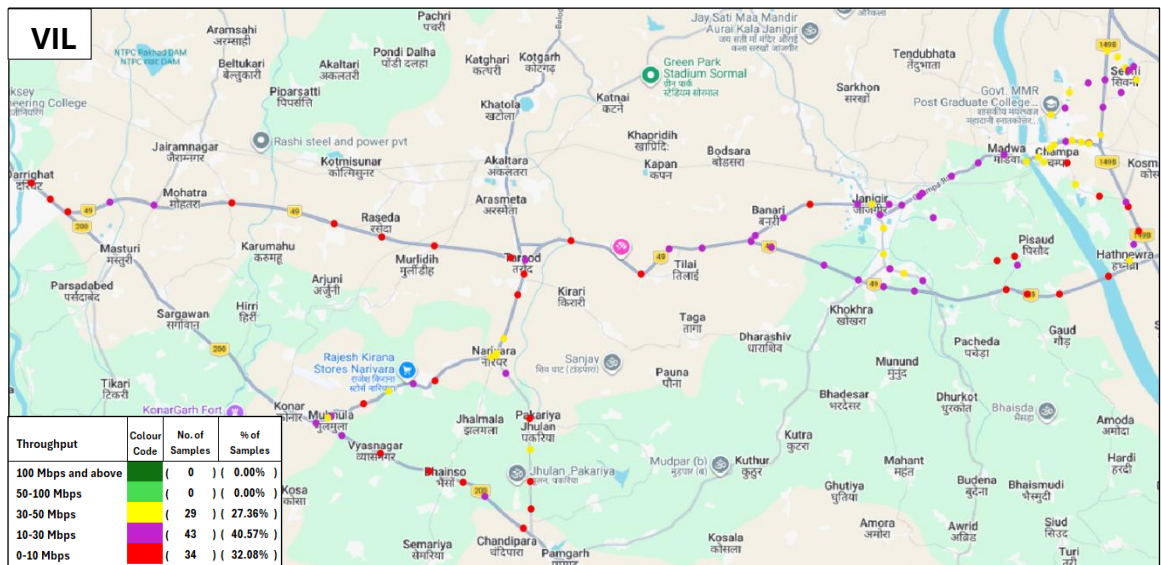


Figure-34: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - VIL.

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)	10.00	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	17.09	5.50	8.59	10.91

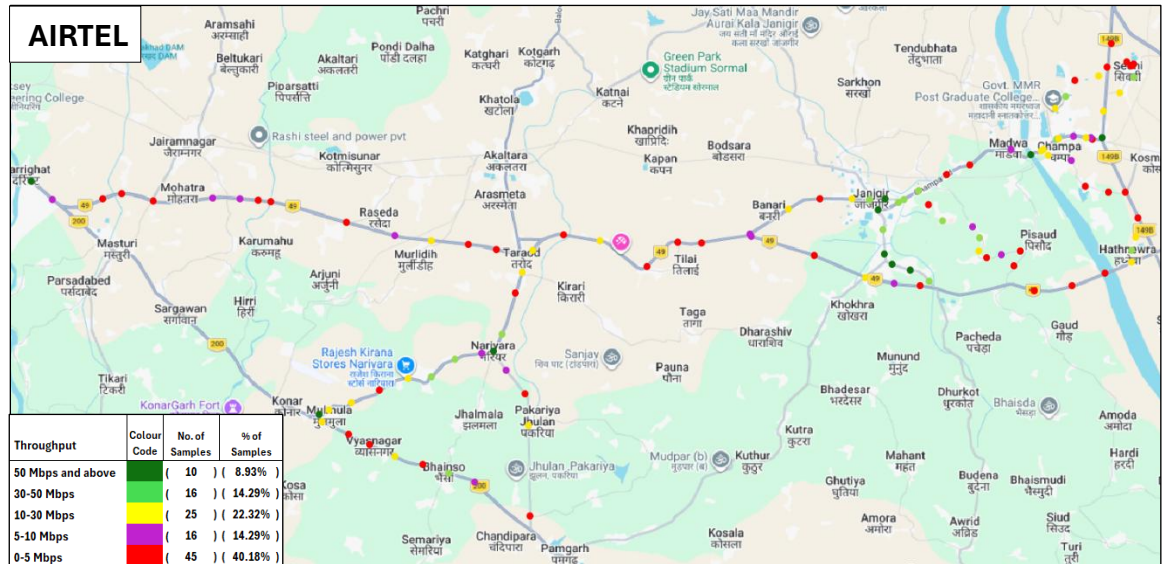


Figure-35: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) – AIRTEL.

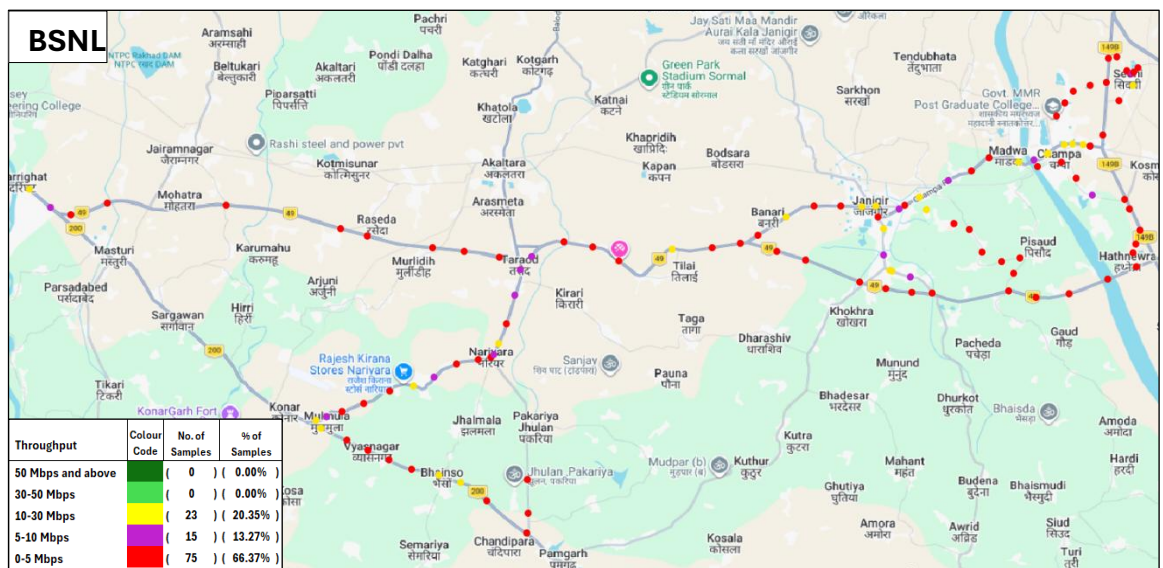


Figure-36: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - BSNL.

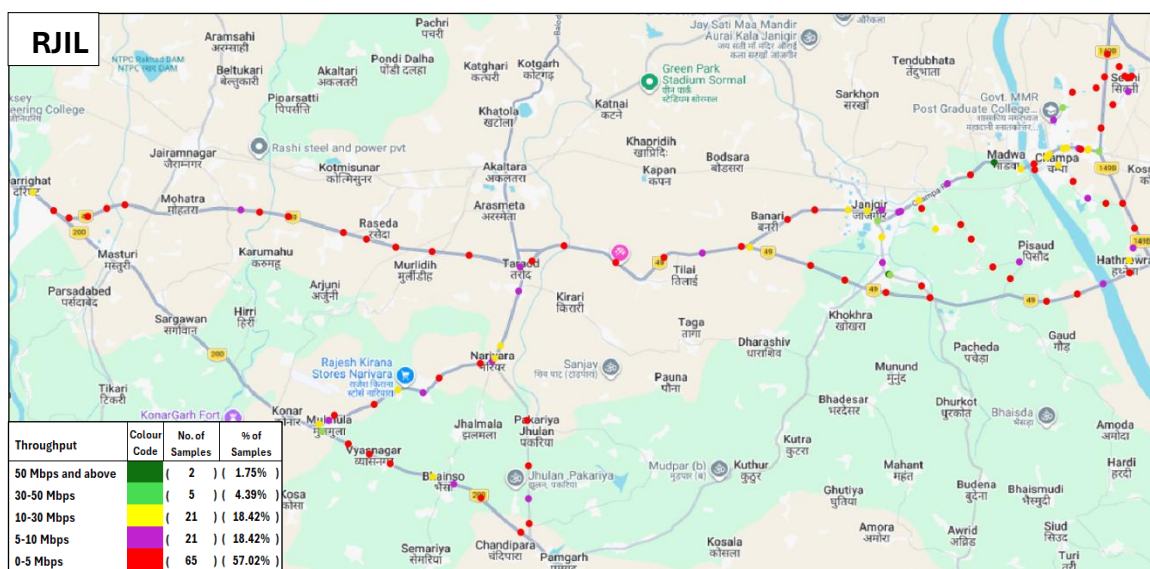


Figure-37: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - RJIL.

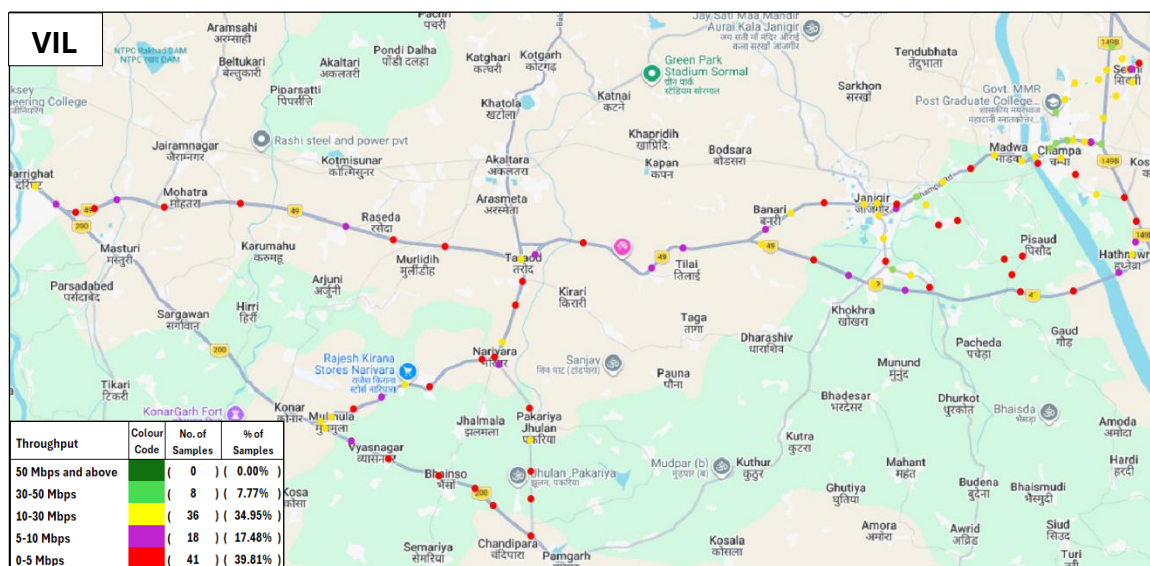


Figure-38: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - VIL.

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