

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.

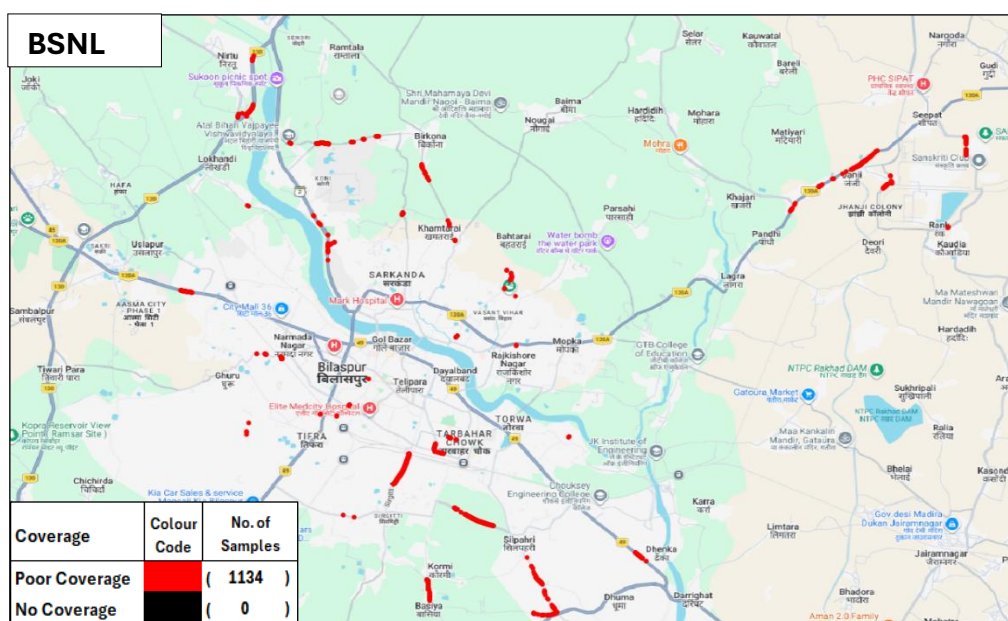


Figure-2: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-BSNL.

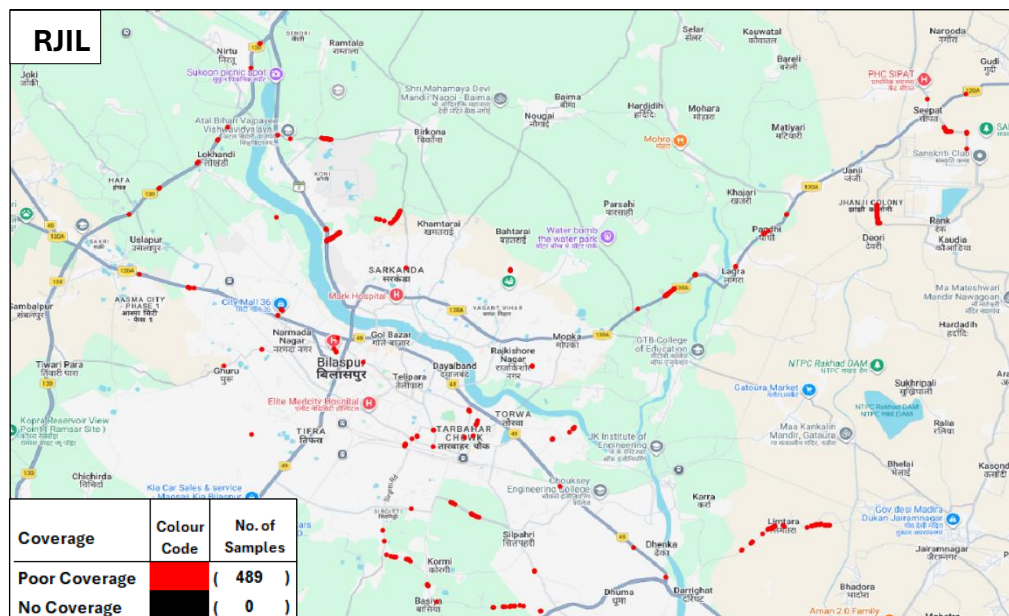


Figure-3: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-RJIL.

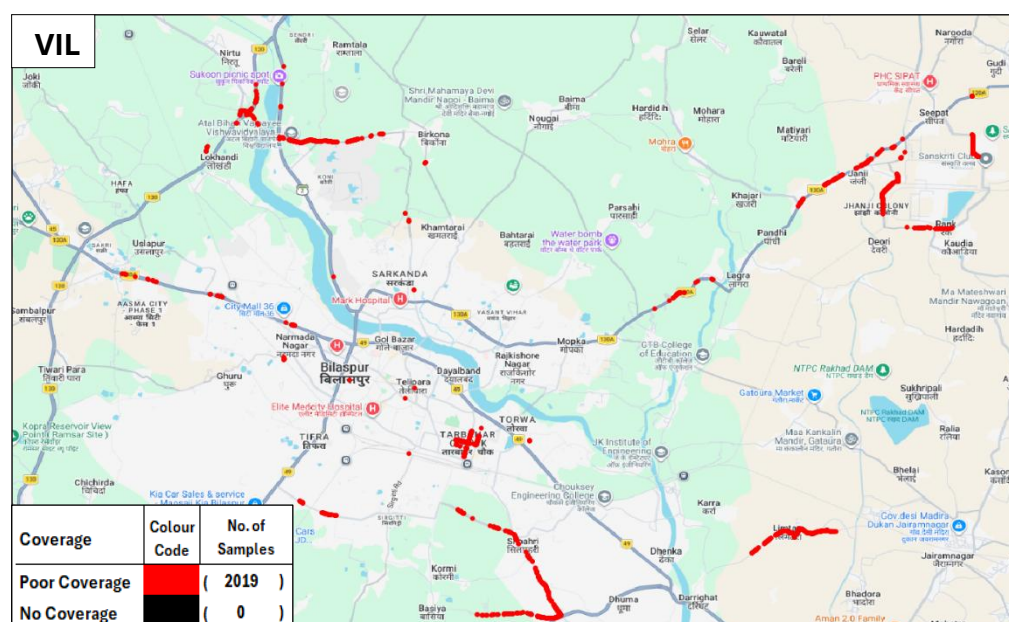


Figure-4: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-VIL.

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

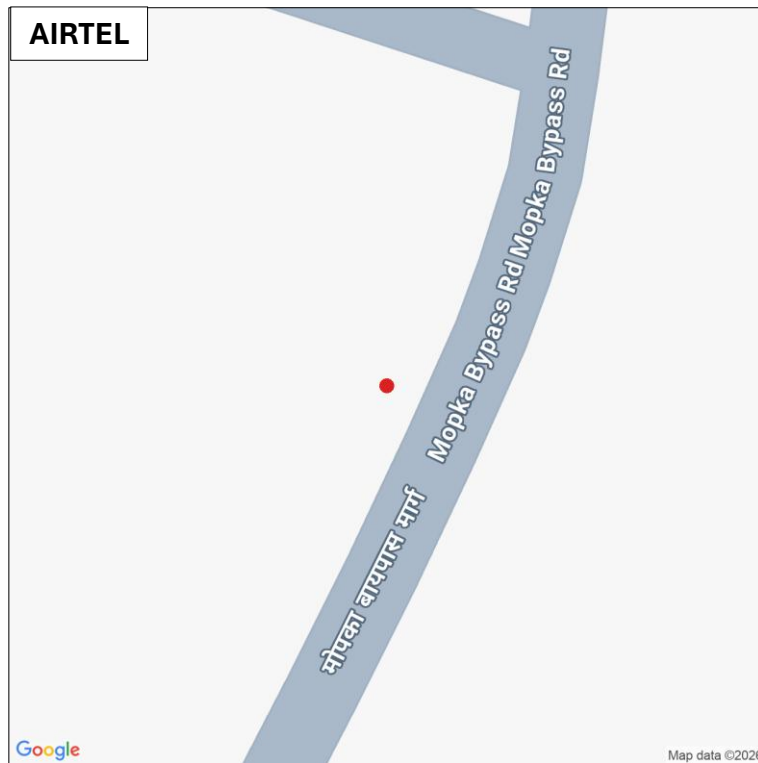


Figure-5: Drop call locations in auto-selection mode (5G/4G/3G/2G) voice - Airtel.

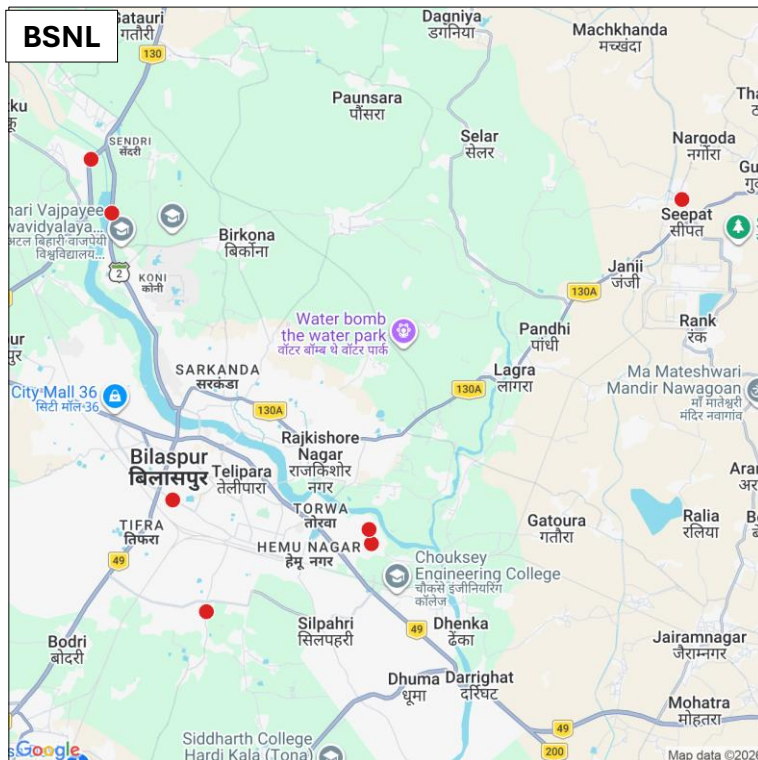


Figure-6: Drop call locations in auto-selection mode (5G/4G/3G/2G) voice - BSNL.

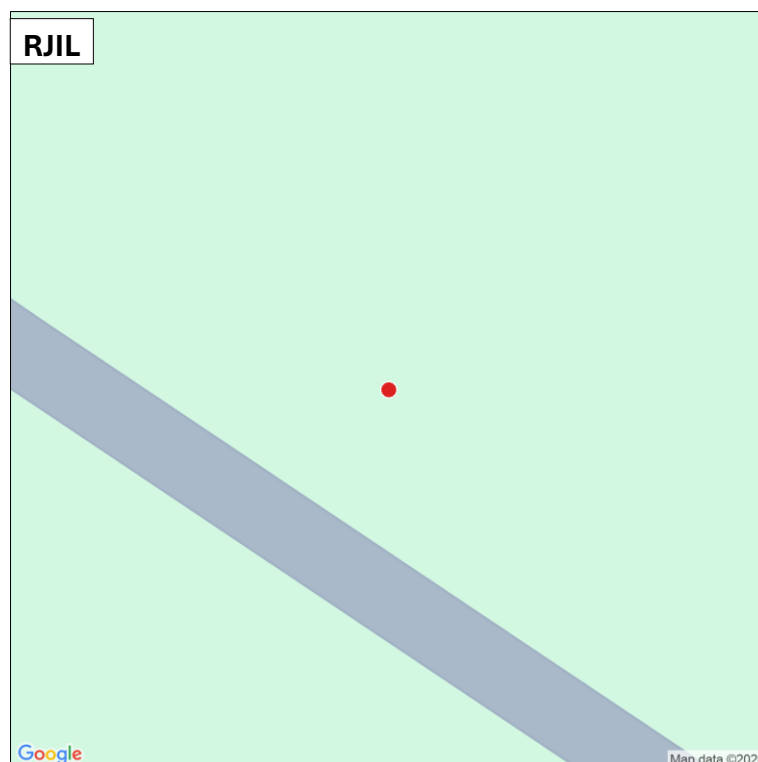


Figure-7: Drop call locations in auto-selection mode (5G/4G/3G/2G) voice - RJIL.

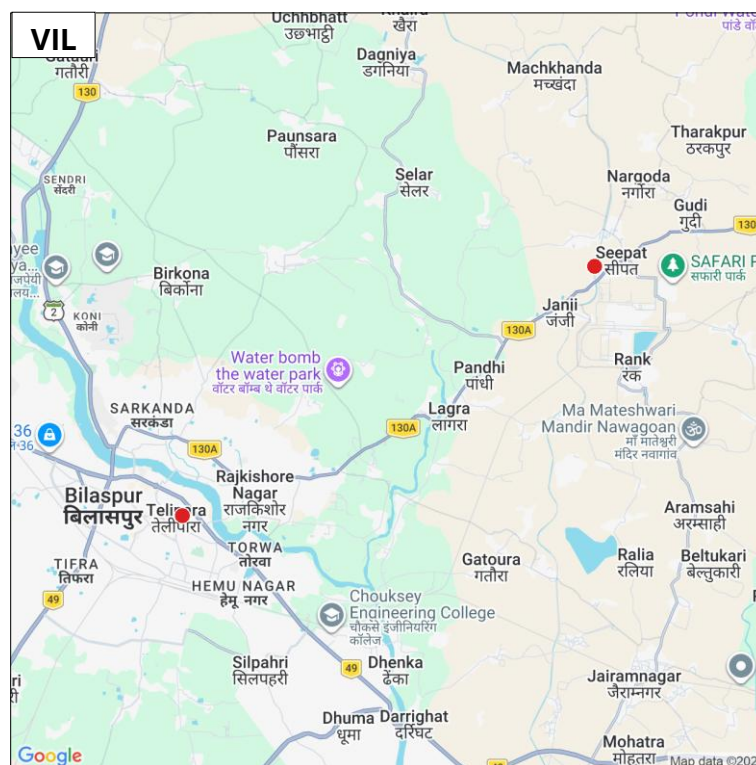


Figure-8: Drop call locations in auto-selection mode (5G/4G/3G/2G) voice - VIL.

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

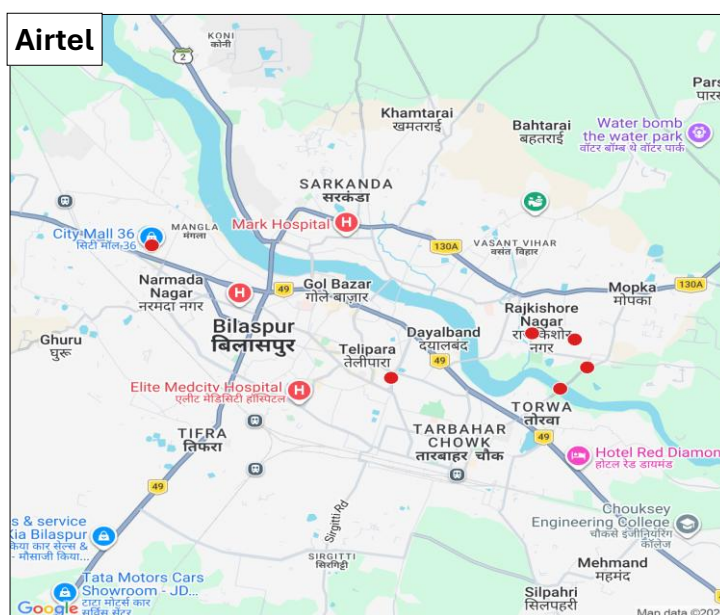


Figure-9: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode)- AIRTEL.

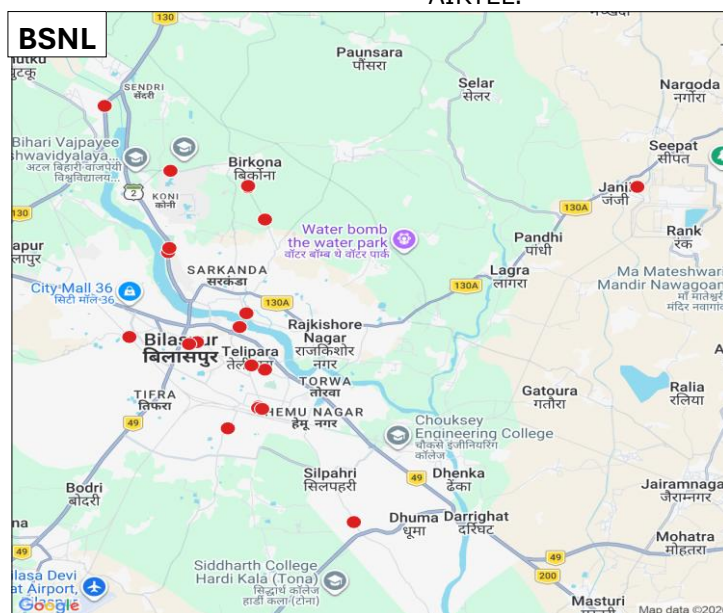


Figure-10: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode) – BSNL.

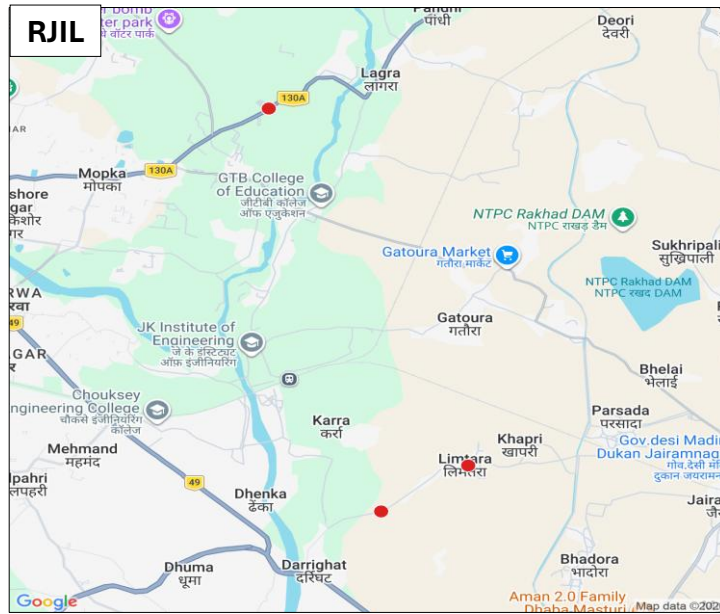


Figure-11: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode) - RJIL.

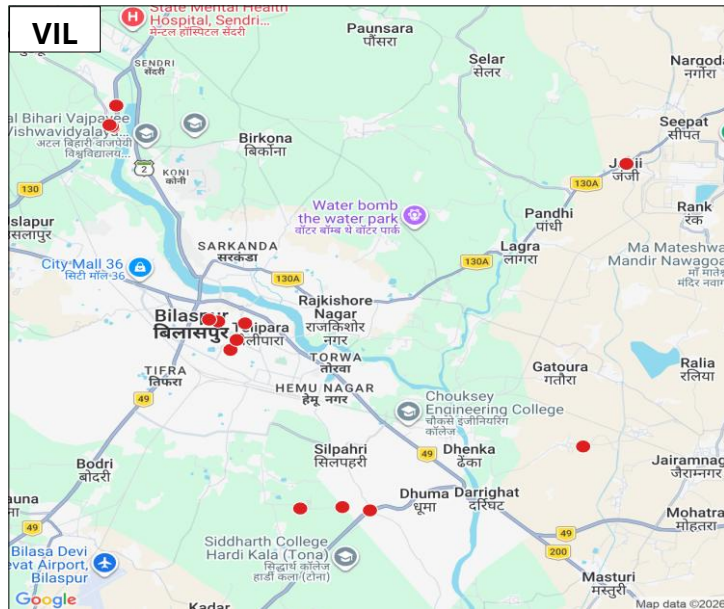


Figure-12: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode) - VIL.

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

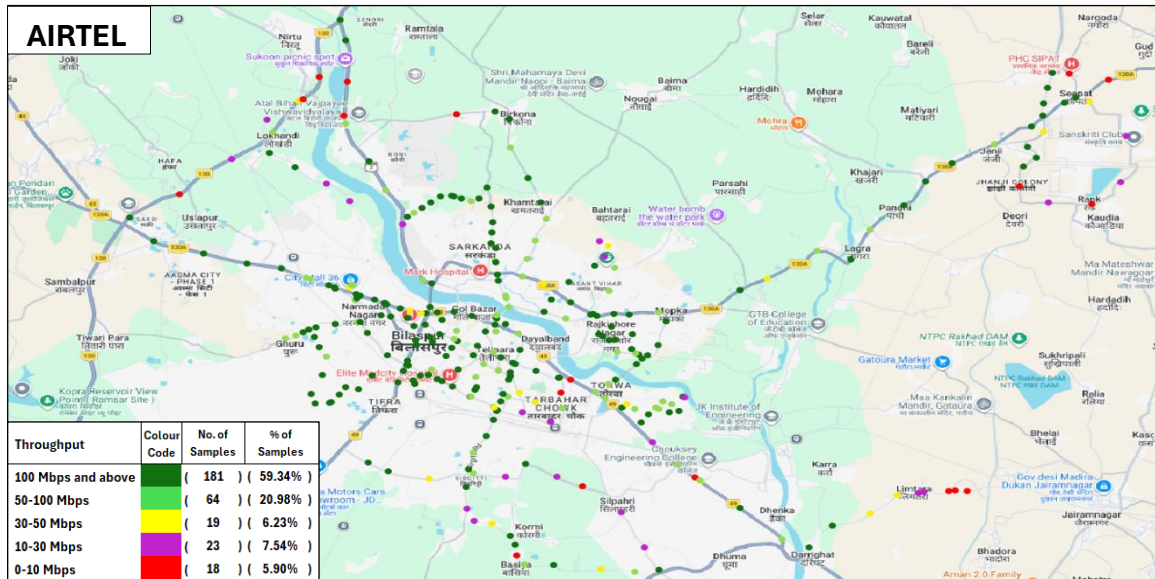


Figure-13: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - AIRTEL.

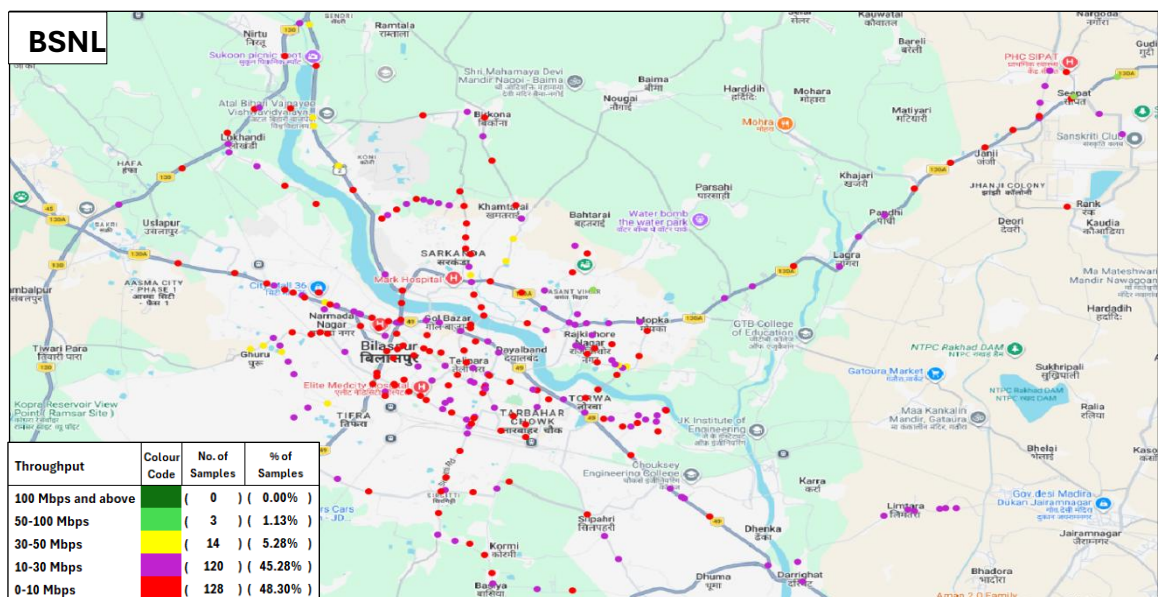


Figure-14: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - BSNL.

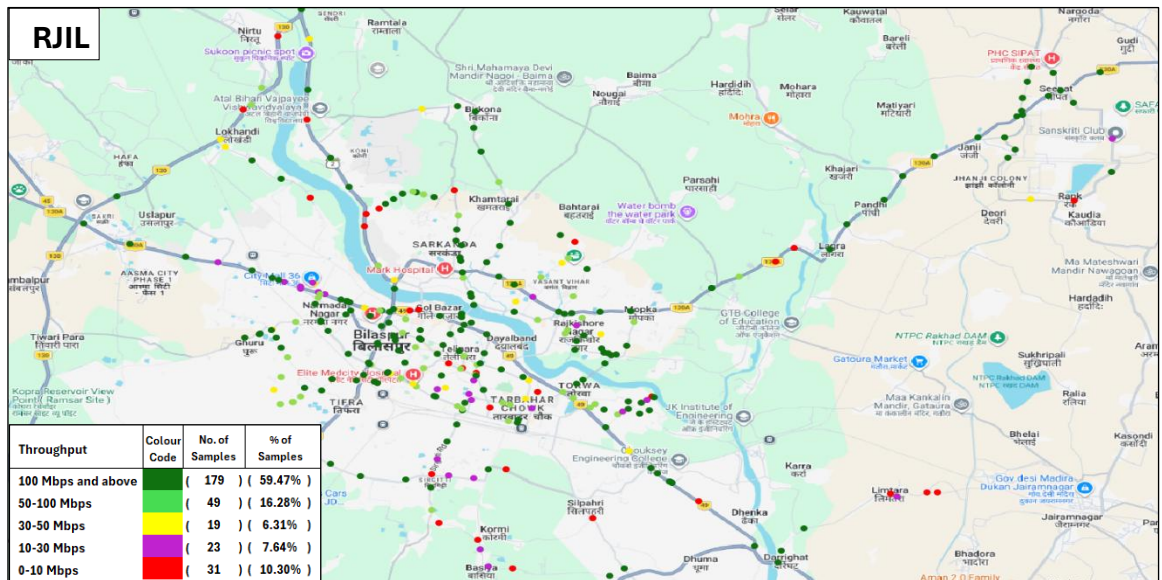


Figure-15: Download throughput distribution auto-selection mode (5G/4G/3G/2G) – RJIL.

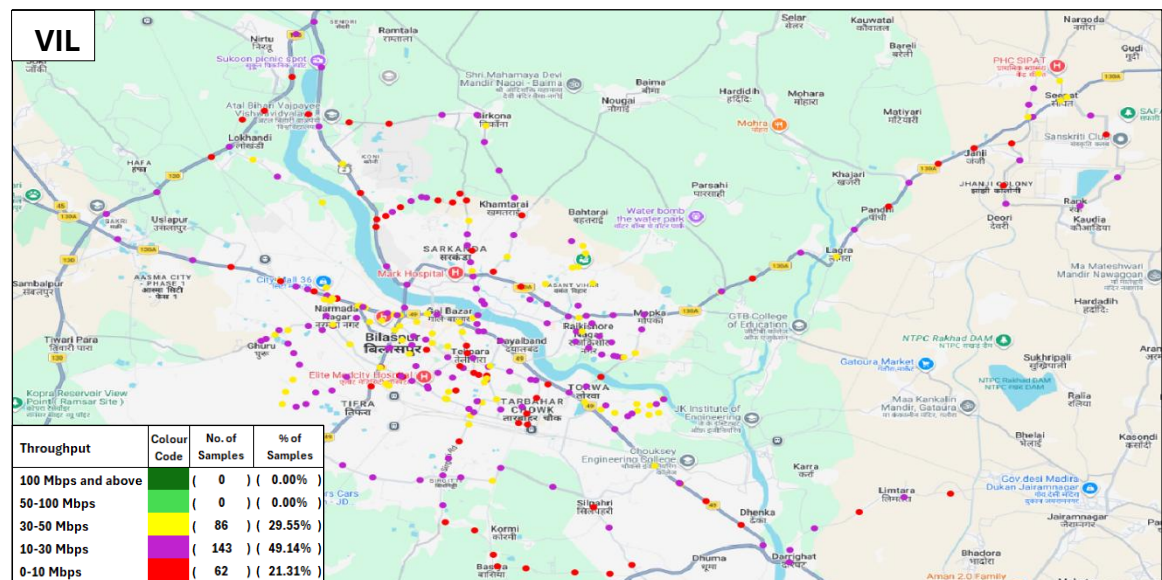


Figure-16: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - VIL.

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

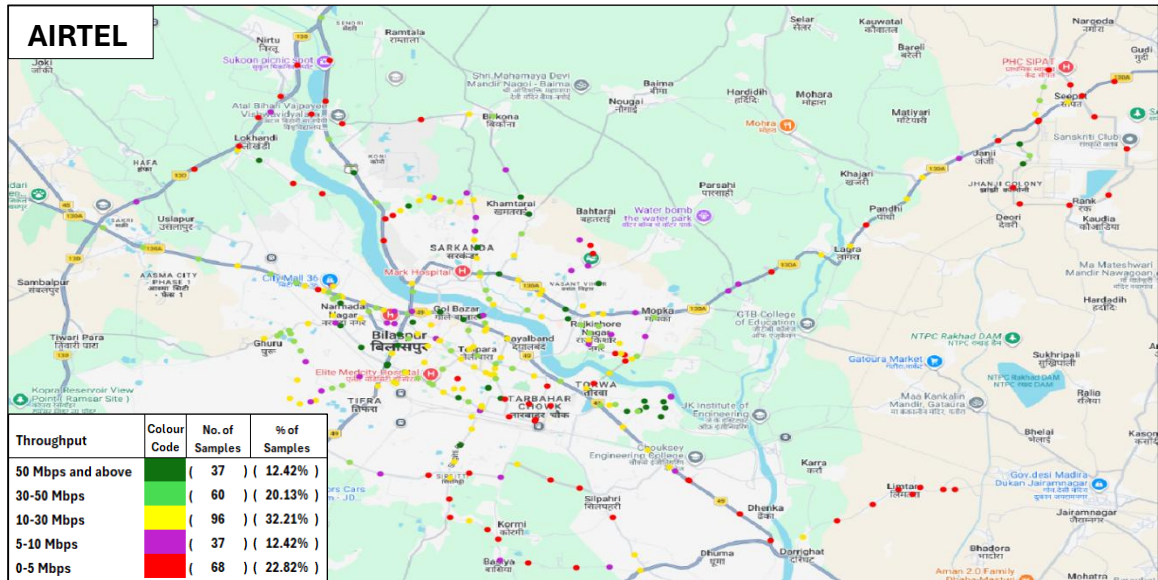


Figure-17: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) – AIRTEL.

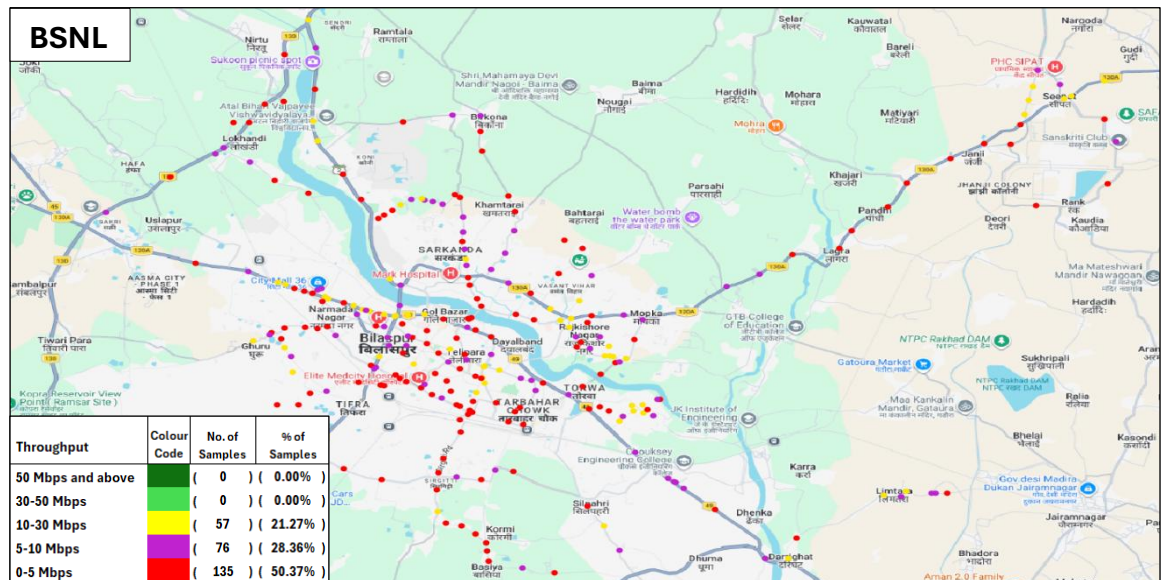


Figure-18: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - BSNL.

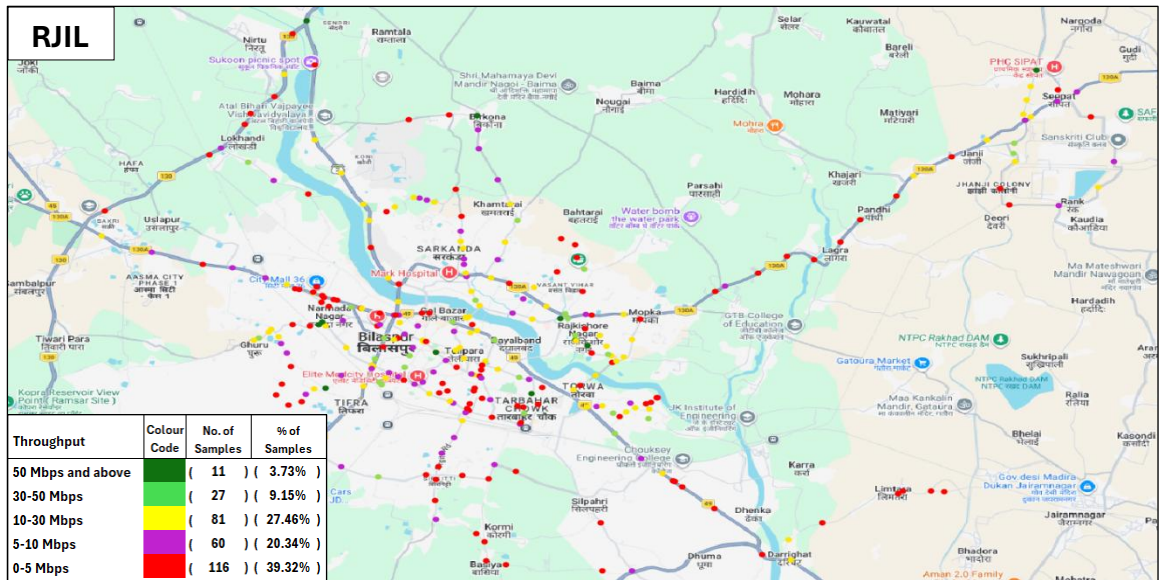


Figure-19: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - RJIL.

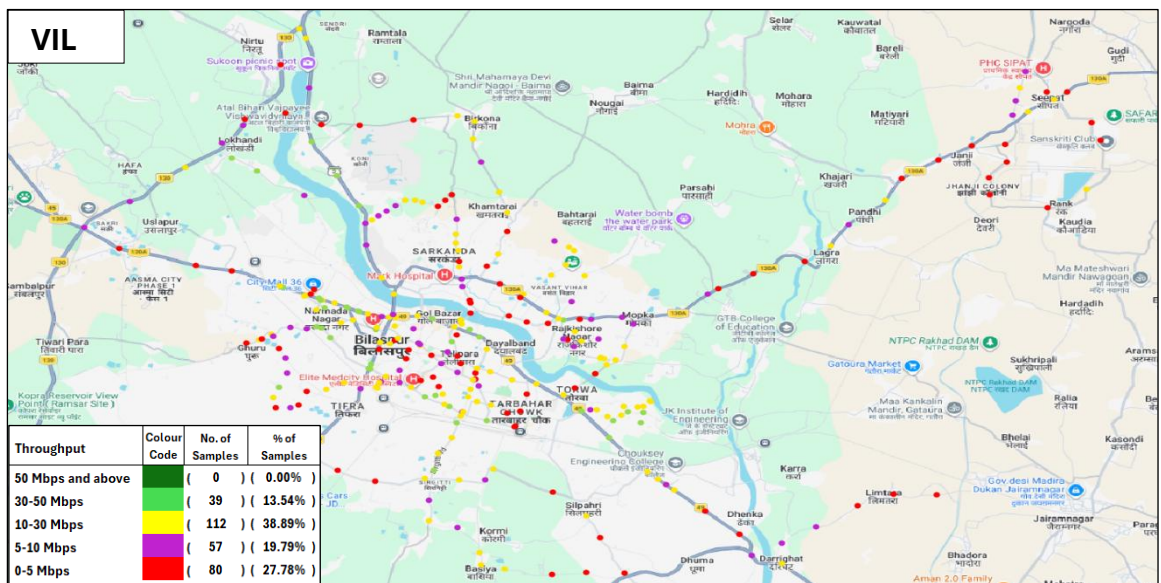


Figure-20: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - VIL.

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

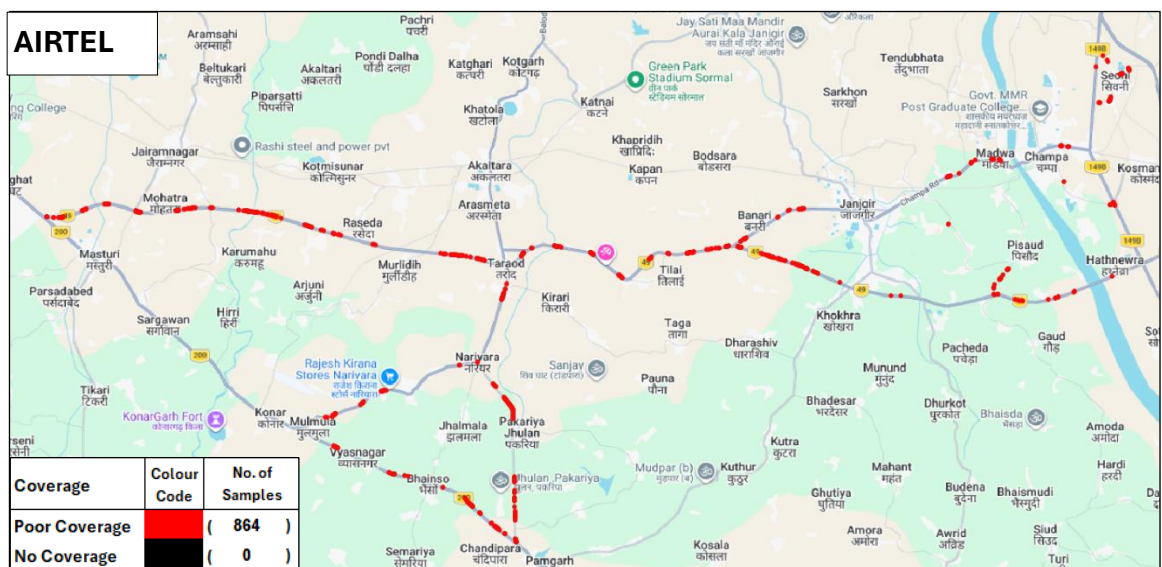


Figure-21: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-AIRTEL.

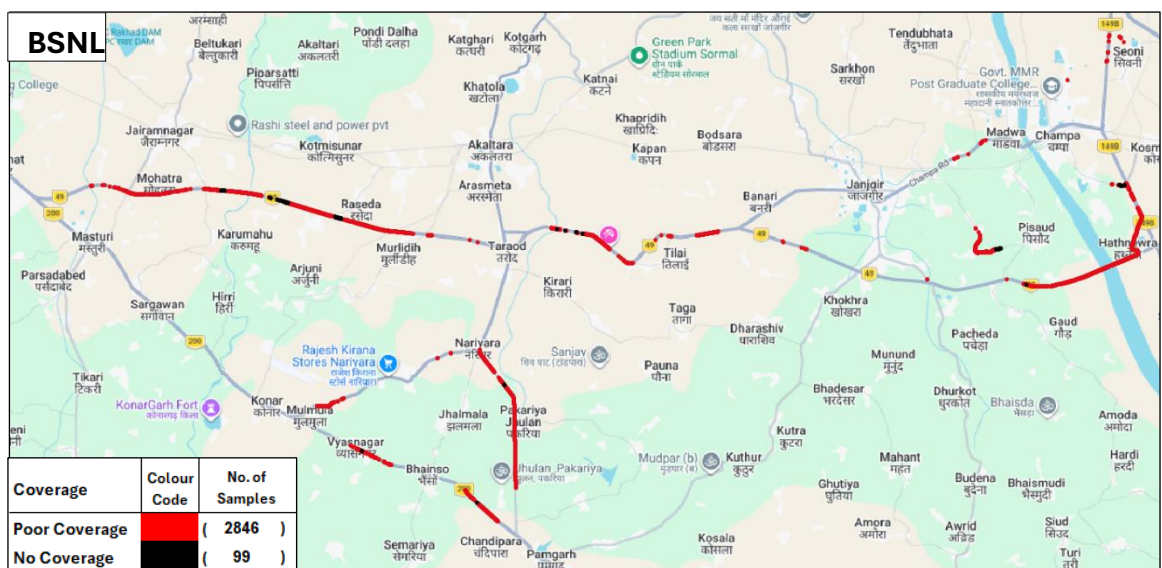


Figure-22: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-BSNL.

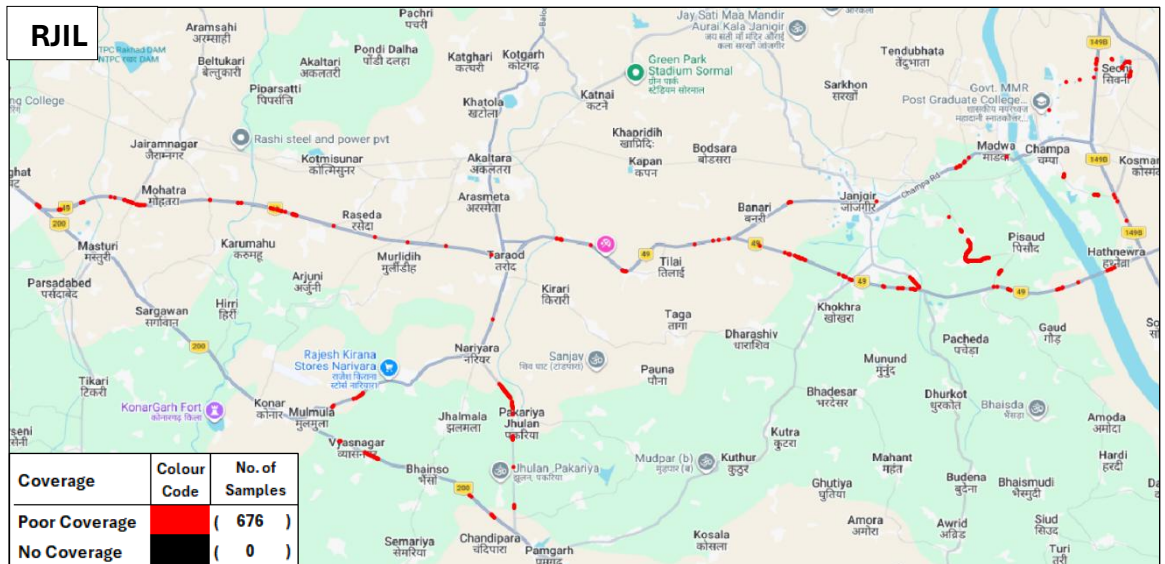


Figure-23: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-RJIL.

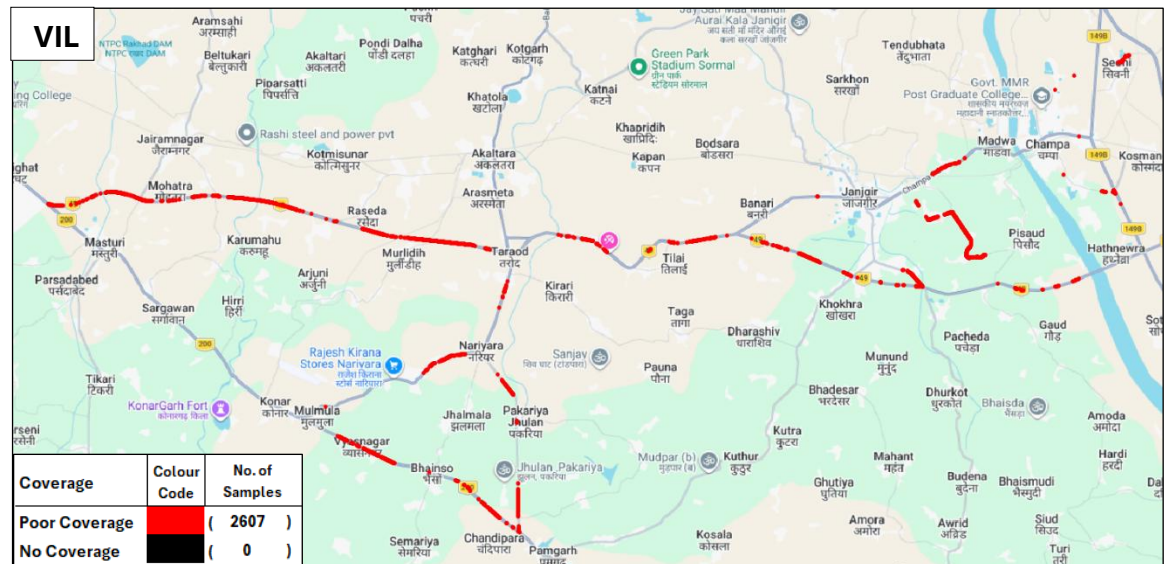


Figure-24: Poor coverage & no coverage locations in auto-selection mode (5G/4G/3G/2G) voice-VIL.

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

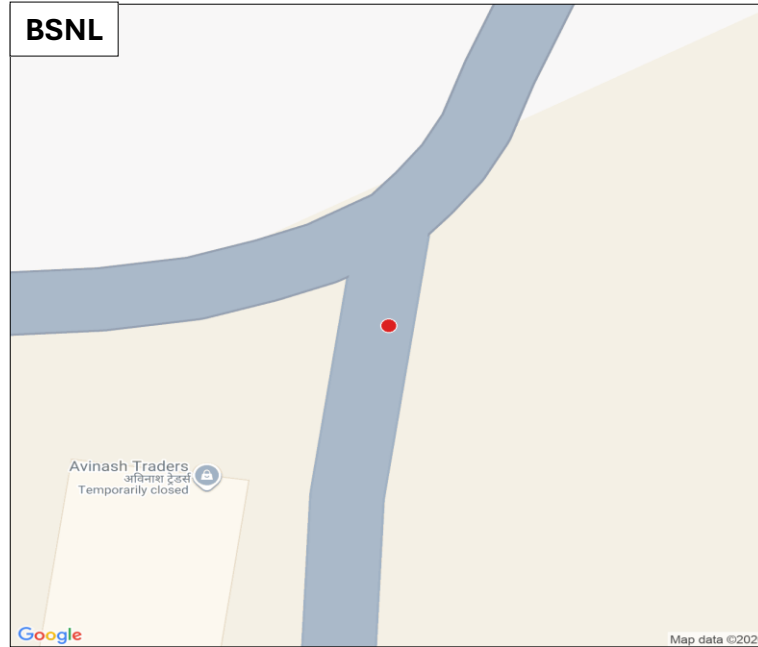


Figure-25: Drop call locations in auto-selection mode (5G/4G/3G/2G) voice - BSNL.



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

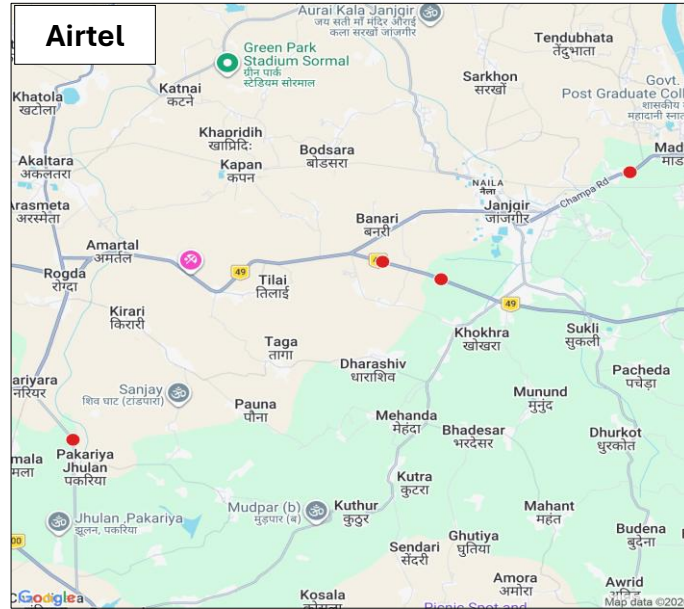


Figure-27: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode)-AIRTEL.



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

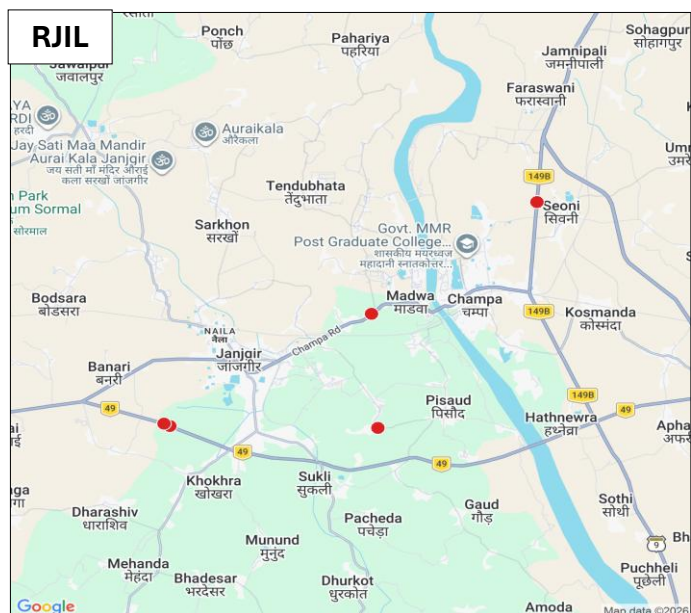


Figure-29: Number of silence instances for >3 Sec Mobile-to-Mobile (5G/4G-Open Mode) - RJIL.



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

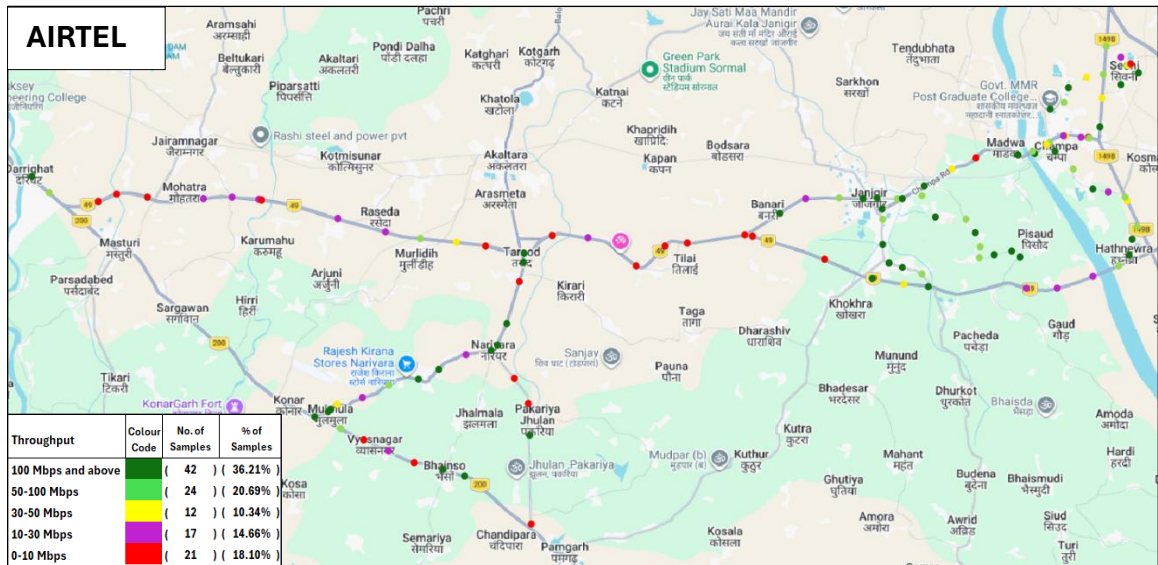


Figure-31: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - AIRTEL.

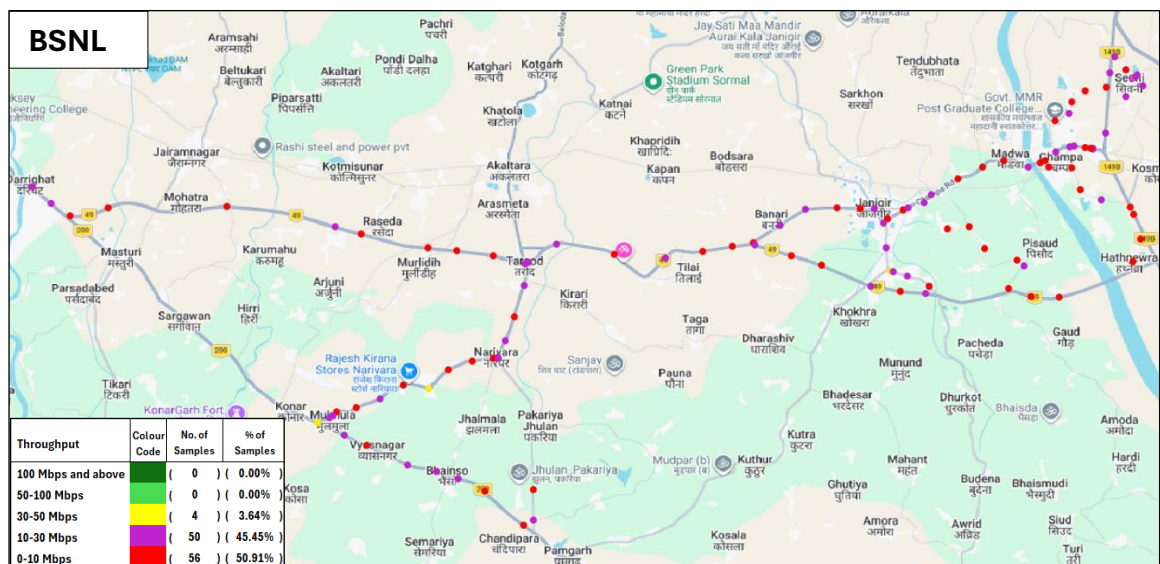


Figure-32: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - BSNL.

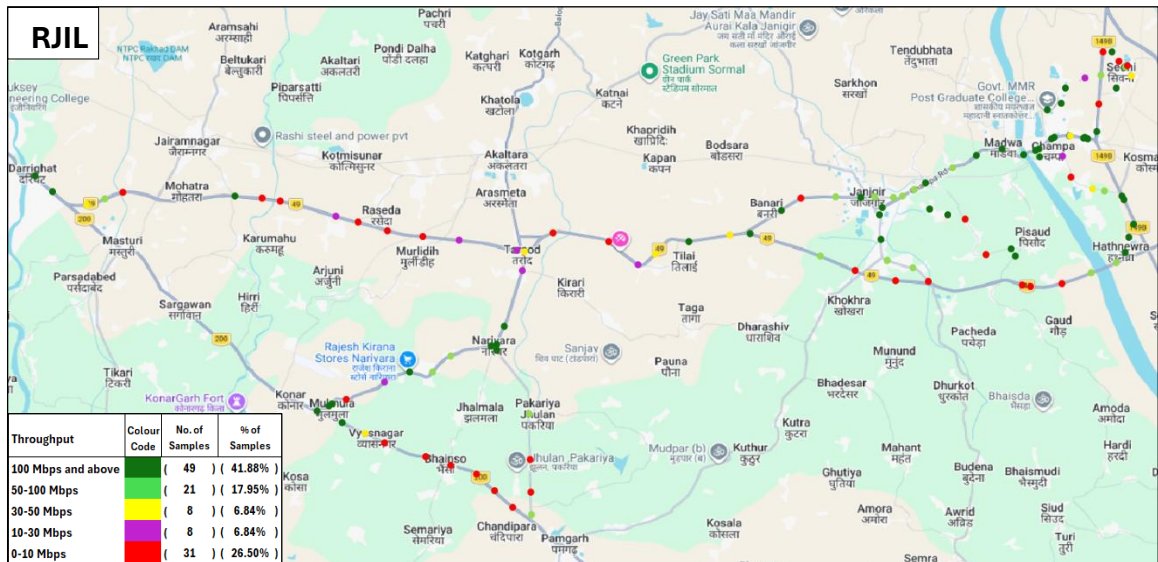


Figure-33: Download throughput distribution auto-selection mode (5G/4G/3G/2G) – RJIL.

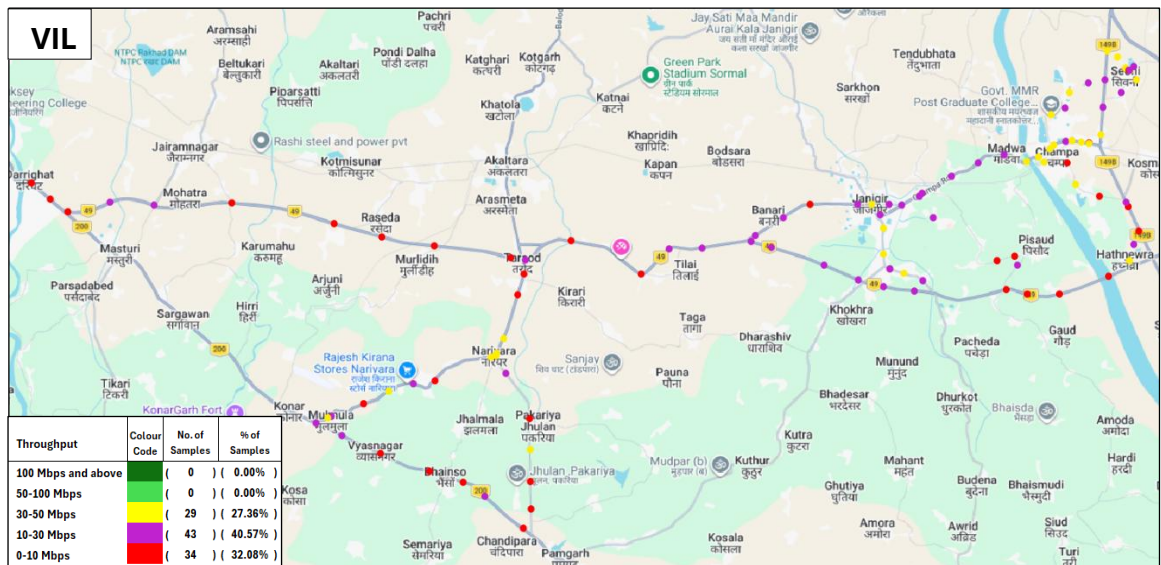


Figure-34: Download throughput distribution auto-selection mode (5G/4G/3G/2G) - VIL.

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

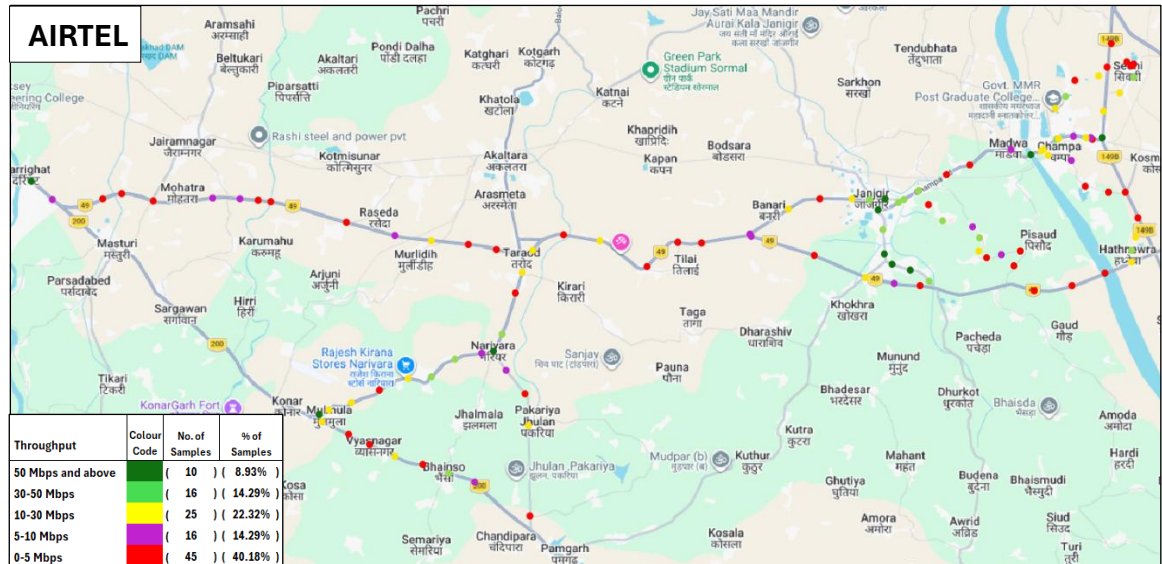


Figure-35: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) – AIRTEL.

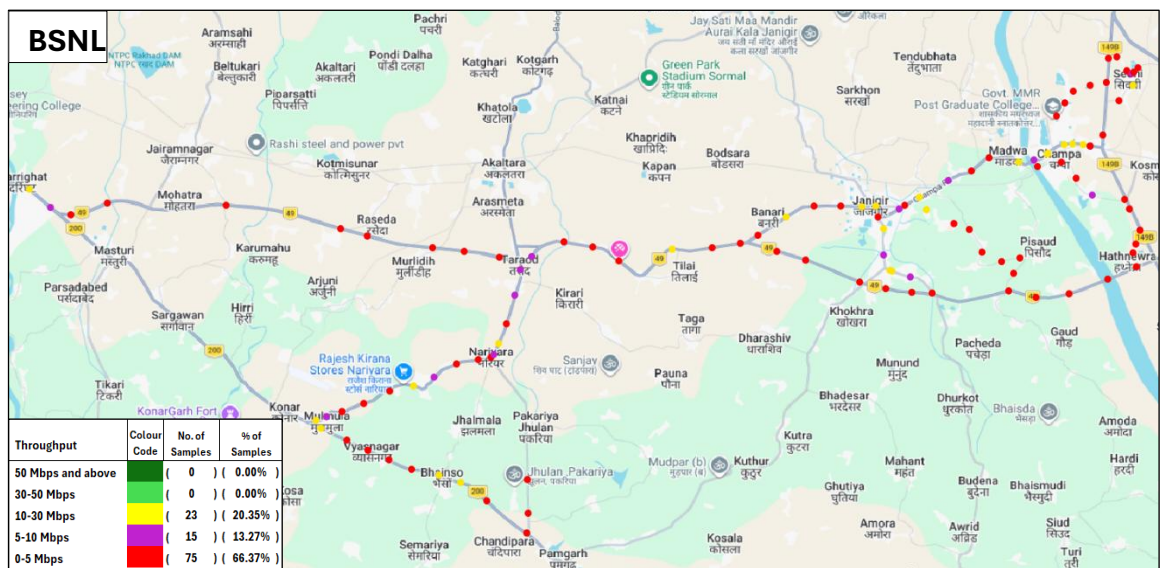


Figure-36: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - BSNL.

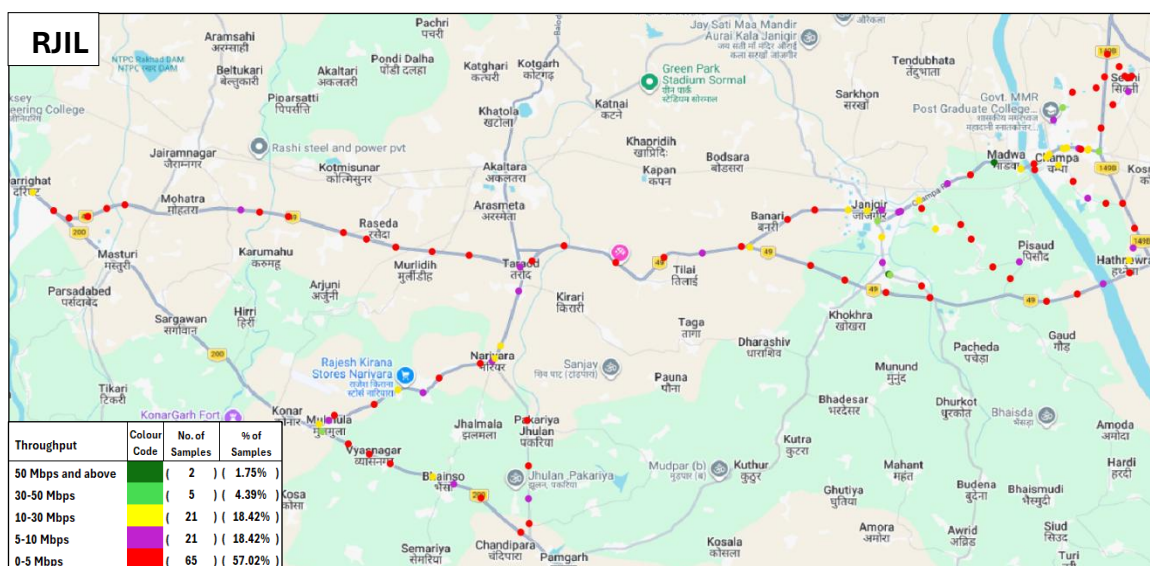


Figure-37: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - RJIL.

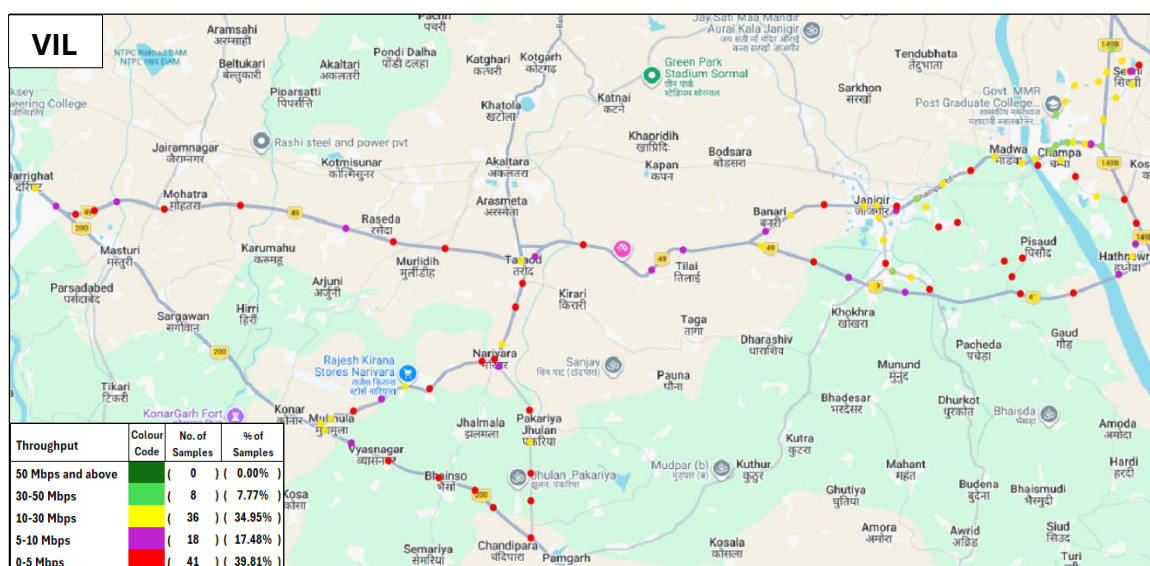


Figure-38: Upload throughput distribution auto-selection mode (5G/4G/3G/2G) - VIL.

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