

**Annexure-I**

**Palampur City & Nearby areas:**

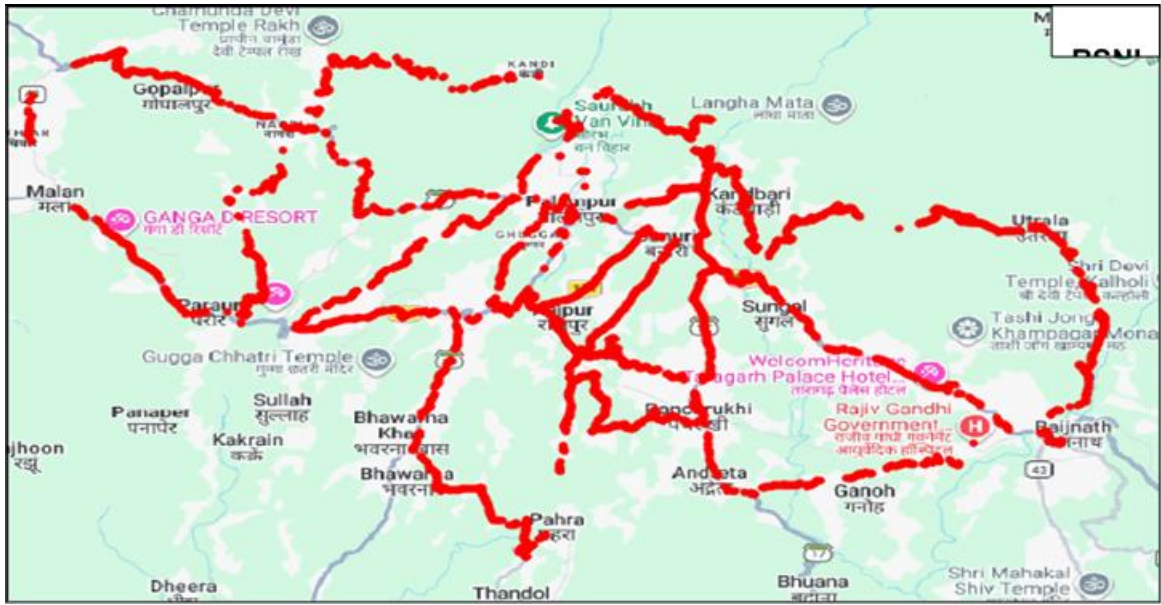
- a. **Coverage Gap** – The coverage distribution found less than the minimum specified signal strength for the drive test route in auto-selection mode (5G/4G/3G/2G) during voice testing, is as below: -

Parameter	AIRTEL	BSNL	RJIL	VIL
Total Number of Samples captured on Drive test route	30794	29977	30530	30018
Number of Samples having poor signal strength	918	15526	1358	4287

**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**





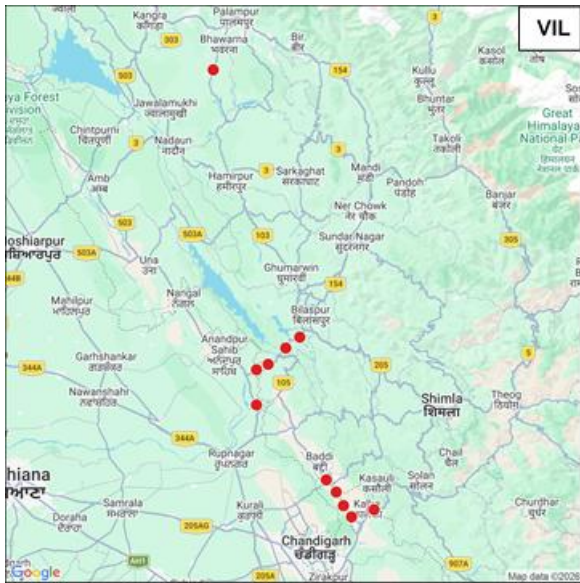
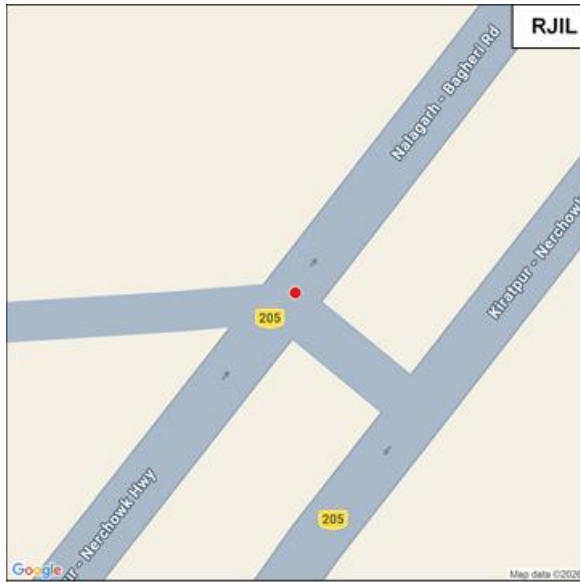
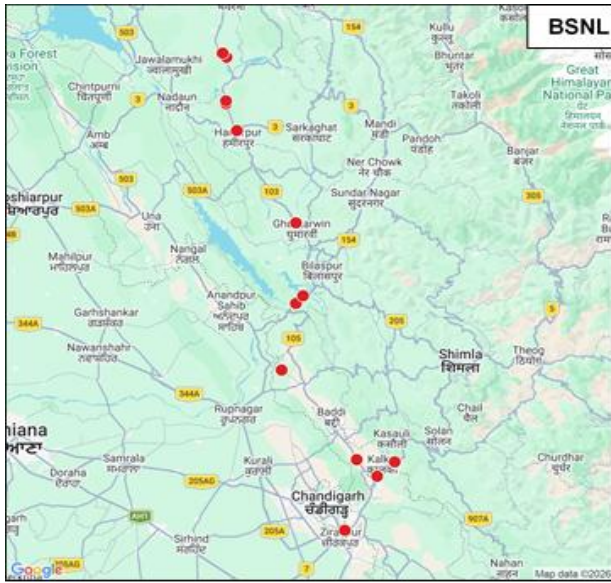


b) **Dropped Calls** - The TSP-wise details of dropped calls in auto-selection mode (5G/ 4G/ 3G/ 2G) are as below: -

Parameter	AIRTEL	BSNL	RJIL	VIL
Number of successful Calls Established	277	266	279	271
Number of dropped Calls	2	12	1	9

**Locations of Dropped Calls**





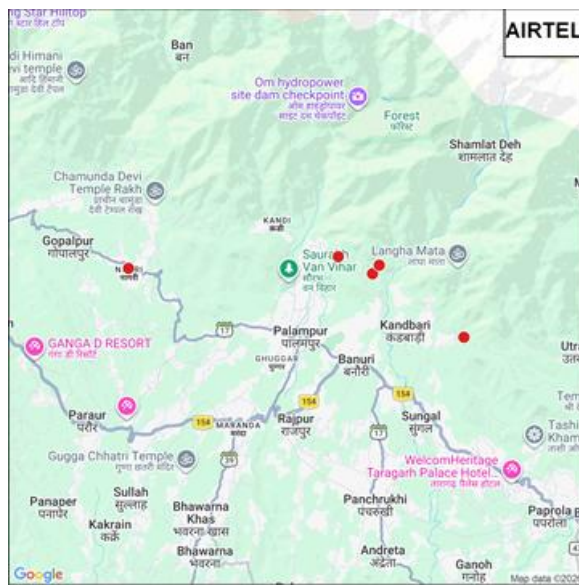
**Note:** Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map

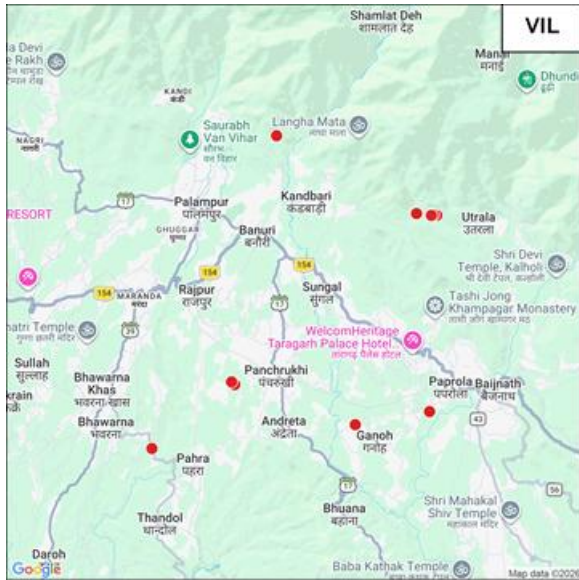
**c) Call Silence Instance** - The TSP-wise details of Call silence instance in Auto-selection mode (5G/4G) are as below: -

Parameter	AIRTEL	BSNL	RJIL	VIL
Call Established (within service provider network)	263	NA*	270	261
Number of silences calls for >3 Sec	5	NA*	3	7
Total number of silence instances for >3 Sec	5	NA*	3	10

\* NA – Not Applicable

### Locations of Call Silence Instance





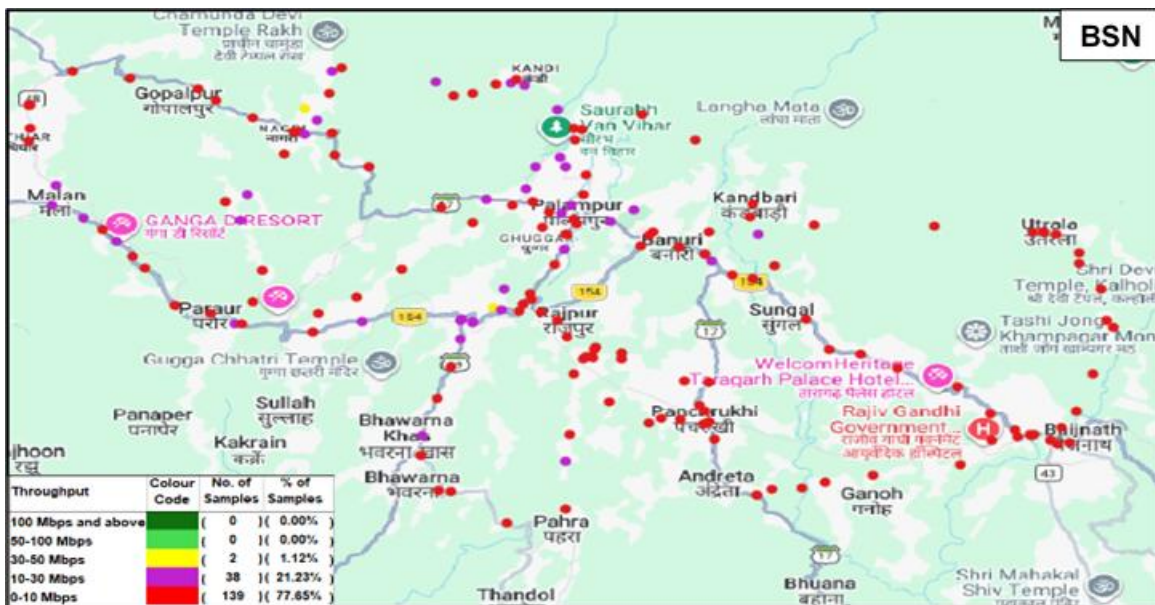
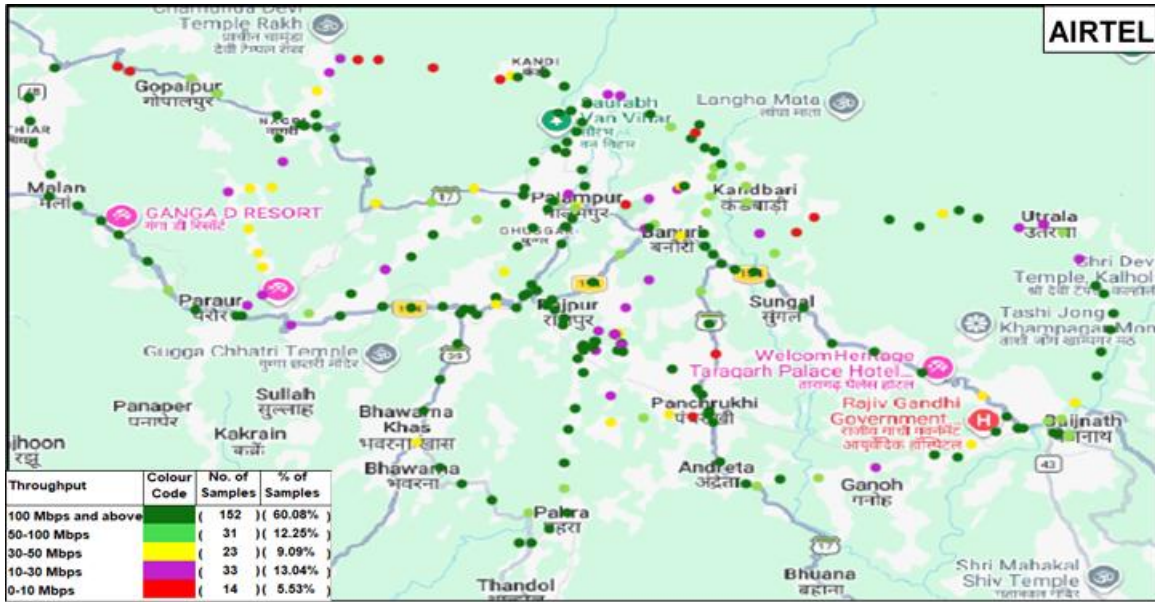
**Note:** Call silence instances are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map

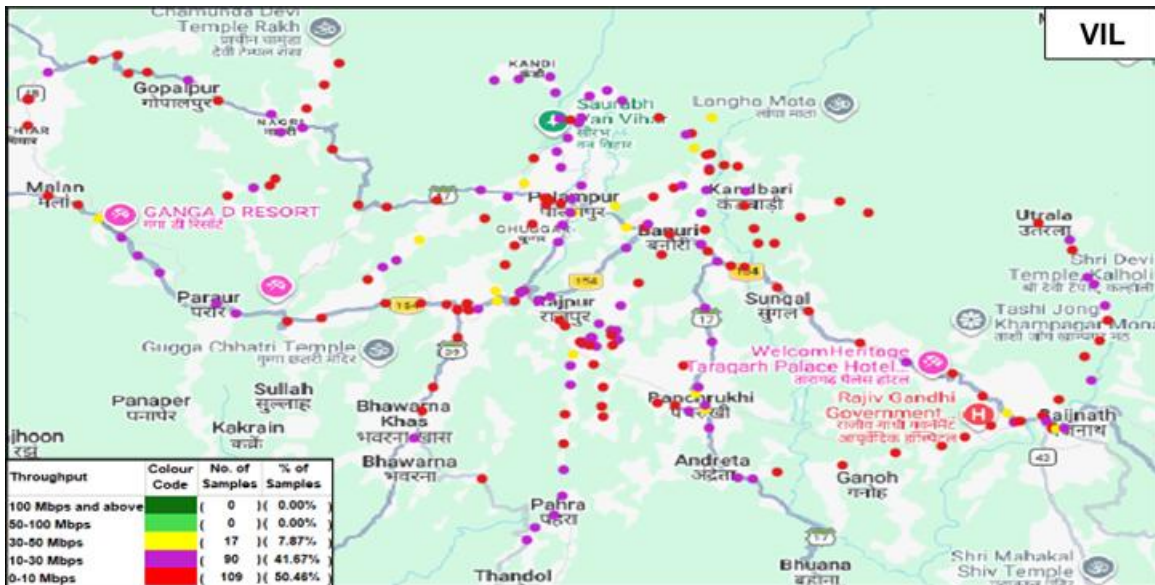
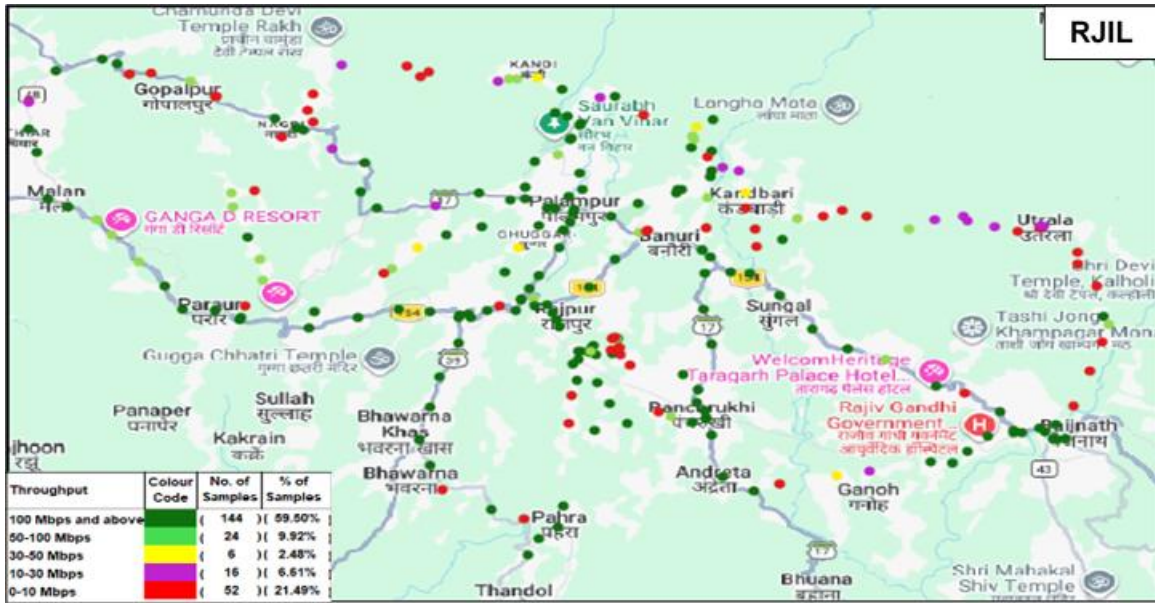
**d) Data Download and Upload throughput:** The TSP-wise details of **Average Download (DL)** and **Upload (UL) throughput** against declared typical DL/UL Throughput for month, in Auto-selection mode (5G/4G/3G/2G) are as below: -

**(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)	12.69	3.00	15.00	15.00

Average Download Throughput measured during IDT	(Mbits/s)	155.87	6.95	194.17	12.66
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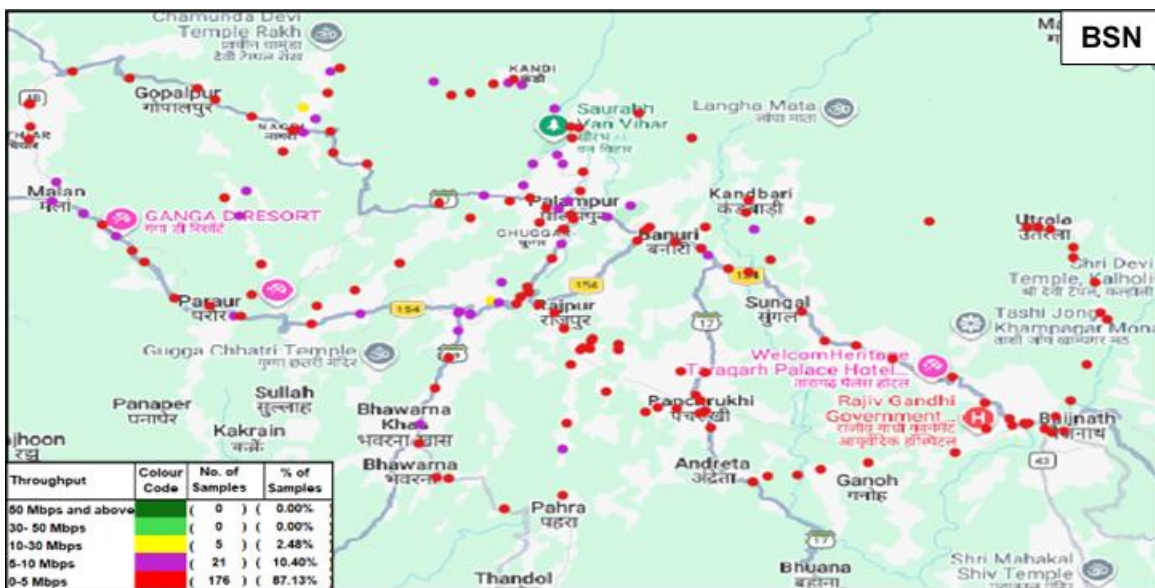
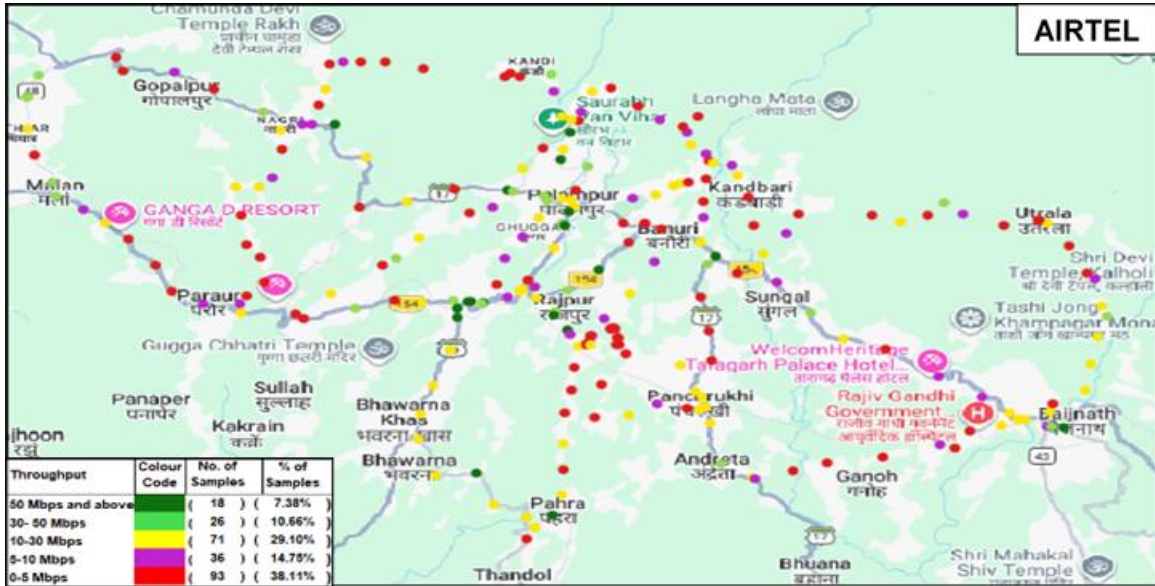


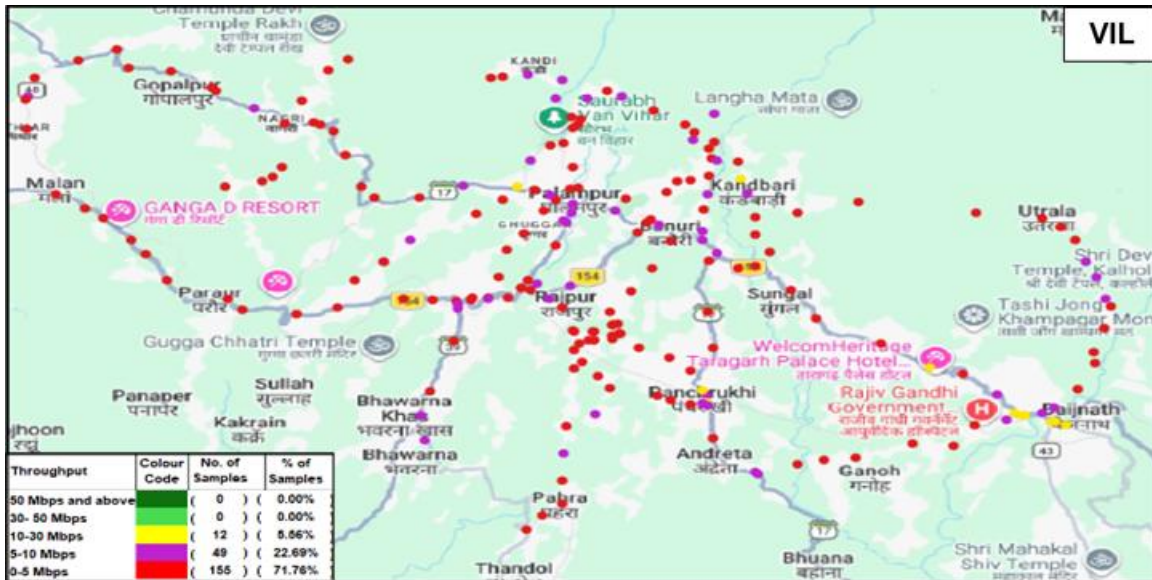
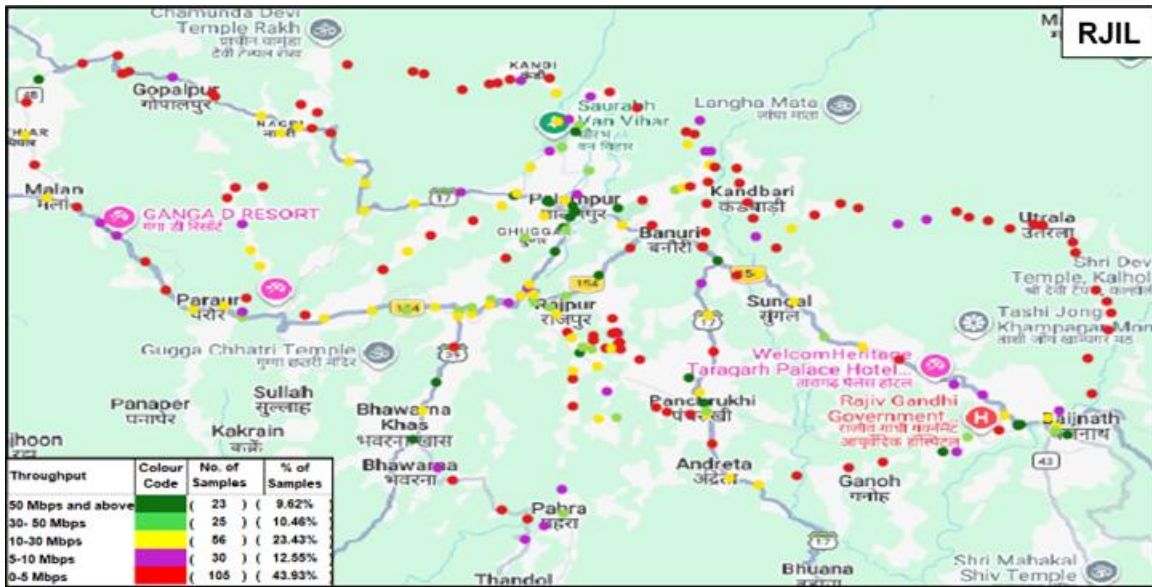
Note: Plot is based on Dynamic Drive Test results only

(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)	0.79	3.00	7.00	8.00

Average Upload Throughput measured during IDT	(Mbits/s)	16.40	2.52	16.73	4.00
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Note: Plot is based on Dynamic Drive Test results only

Annexure-II

Chandigarh to Palampur Highway Route: -

- 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: -

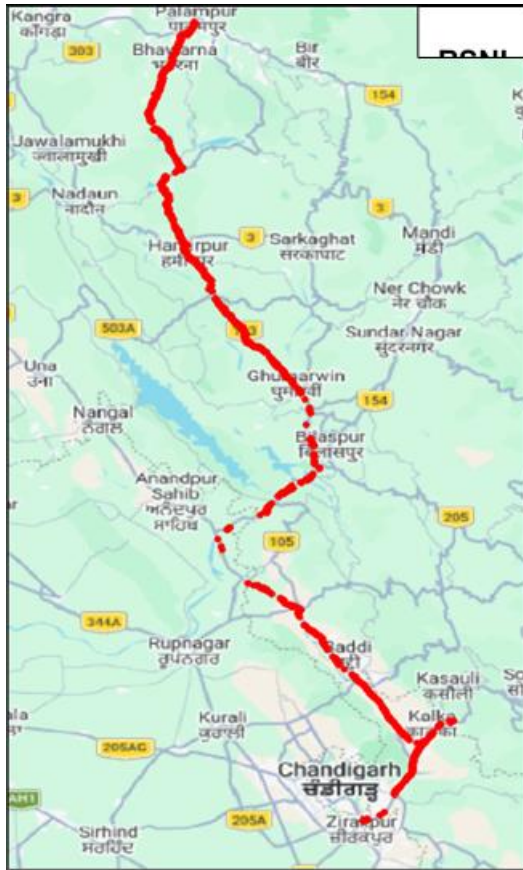
Parameter	AIRTEL	BSNL	RJIL	VIL
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Total Number of Samples captured on Drive test route	24378	23479	24520	23713
Number of Samples having poor signal strength	372	7641	483	4269

**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**





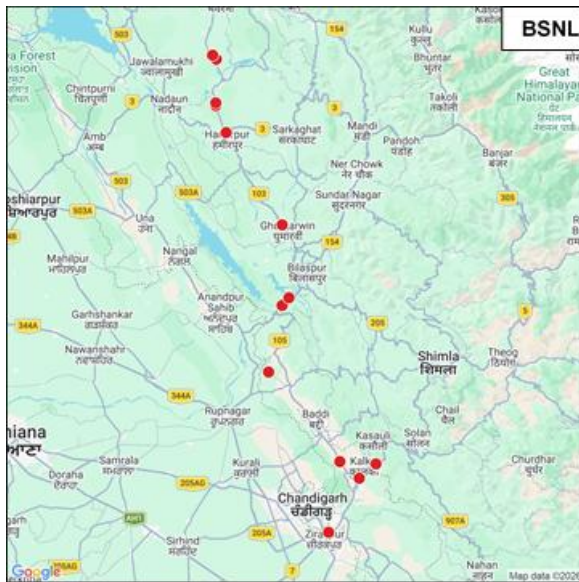


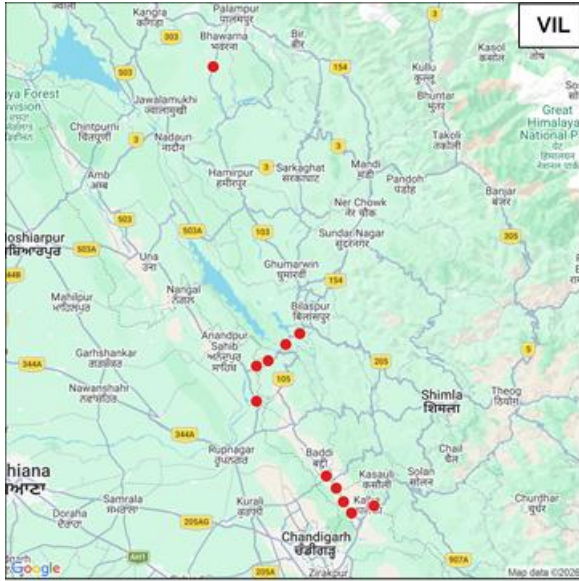
**Note:** Plot is based on Dynamic Drive Test results only

**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	122	130	122	122
Number of dropped Calls	2	14	1	12

**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)	124	NA*	122	124
Number of silences calls for >3 Sec	6	NA*	0	7
Total number of silence instances for >3 Sec	11	NA*	0	11

\* NA – Not Applicable

**Locations of Call Silence Instance**



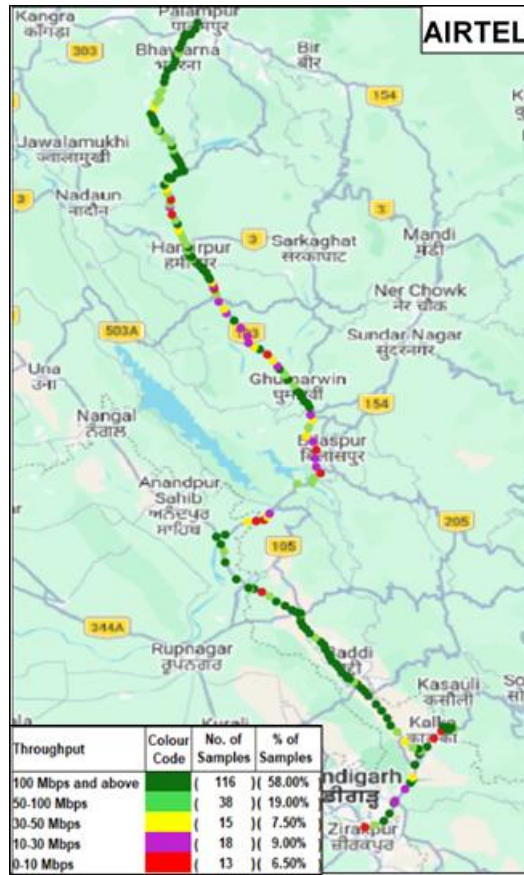
**Note:** Call silence instances are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map

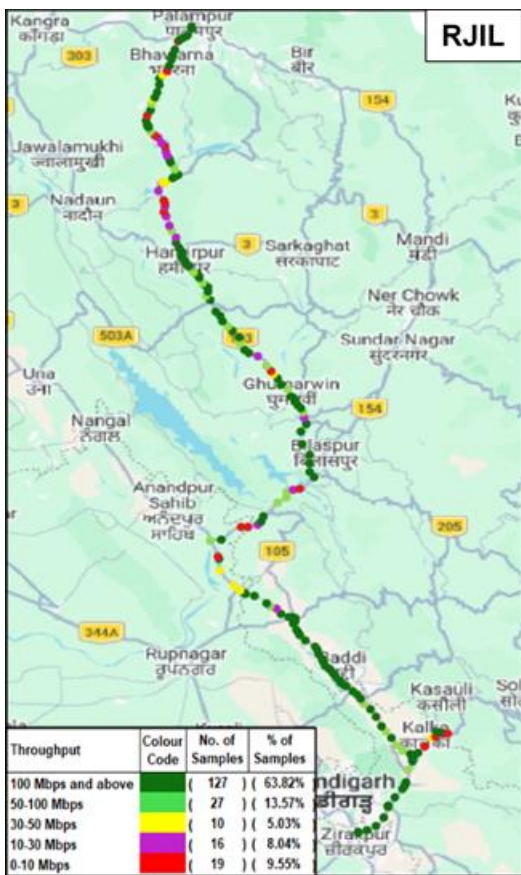
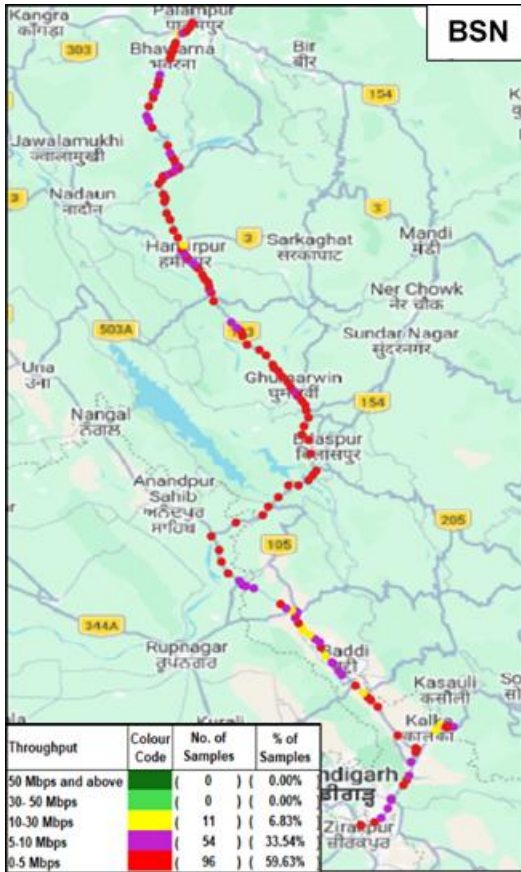
**d) Data Download and Upload throughput:** The TSP-wise details of **Average Download (DL)** and **Upload (UL) throughput** against declared typical DL/UL Throughput for month, in Auto-selection mode (5G/4G/3G/2G) are as below: -

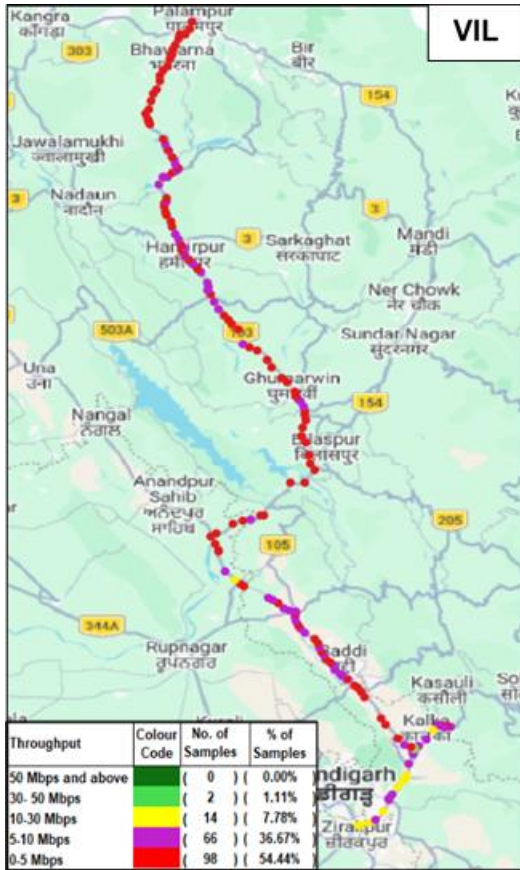
**(i) Download Throughput**

Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 5G)
Typical Download throughput declared by TSP	(Mbits/s)	12.69	3.00	15.00	15.00

Average Download Throughput measured during IDT	(Mbits/s)	145.87	10.40	199.45	11.56
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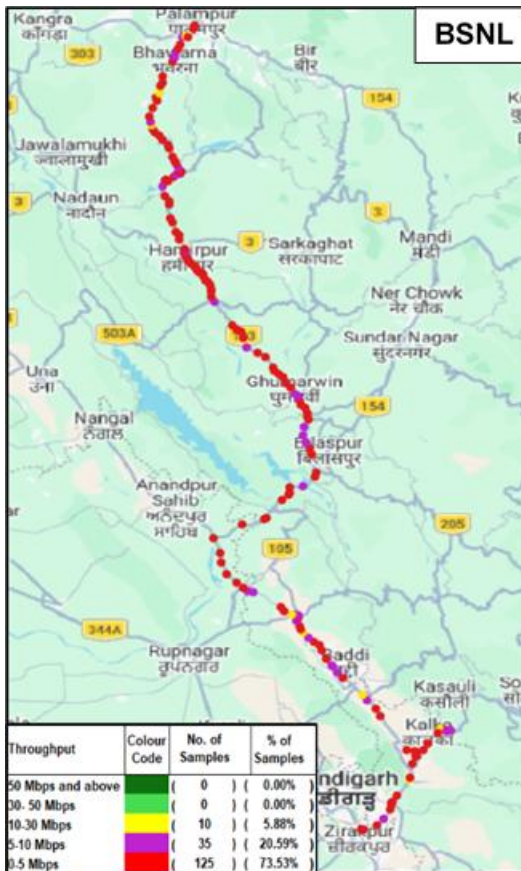
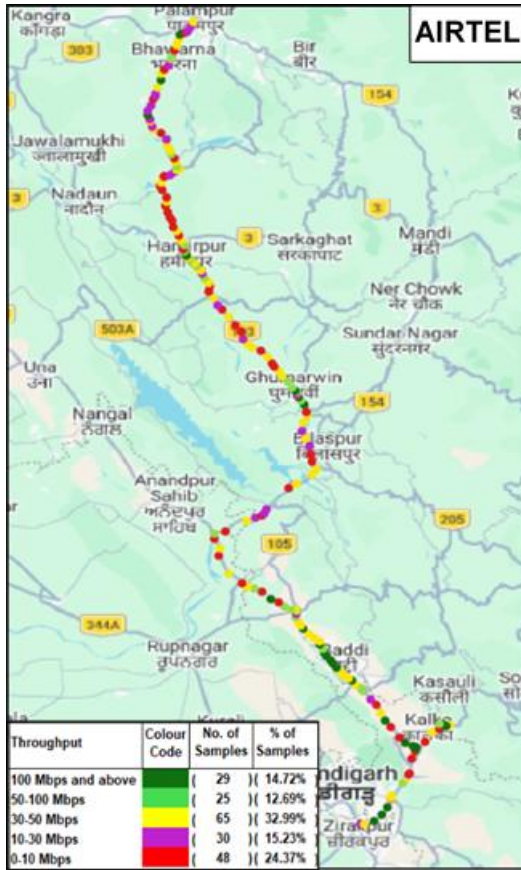


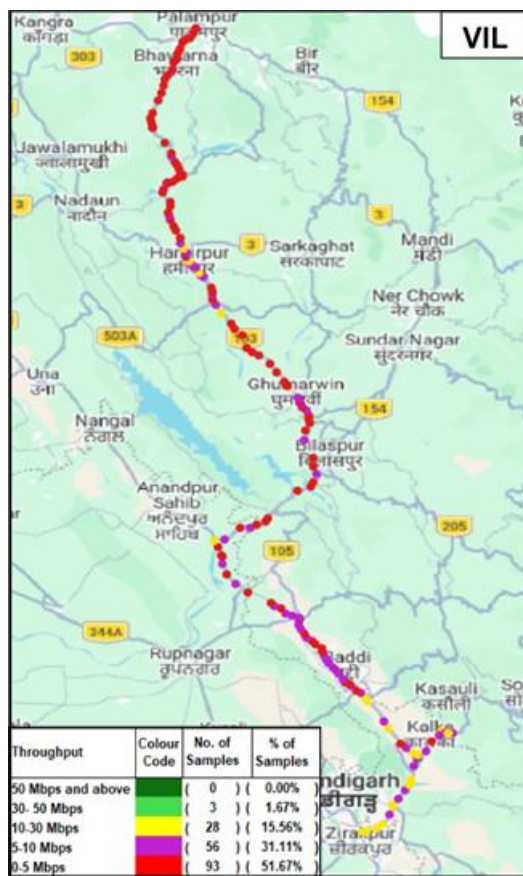
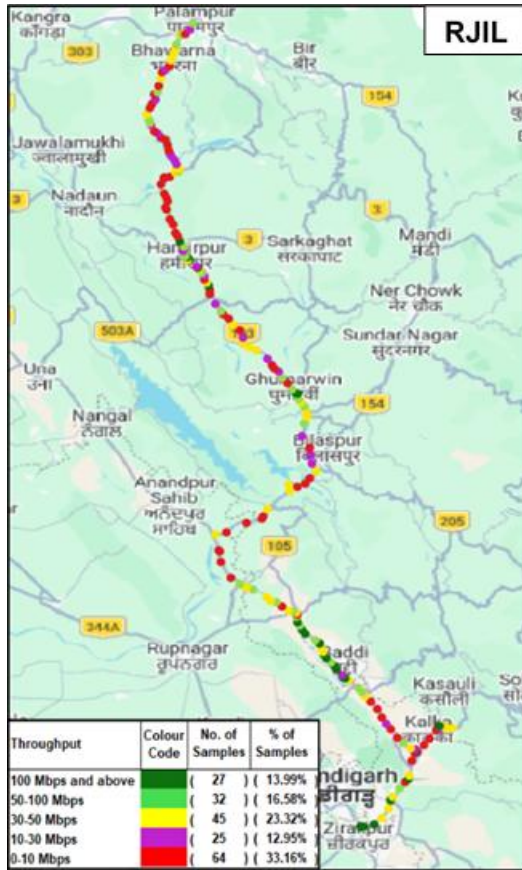


**Note:** Plot is based on Dynamic Drive Test results only

**(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)	0.79	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	22.49	3.80	21.97	6.35





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