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TELECOM REGULATORY AUTHORITY OF INDIA

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For Immediate Release

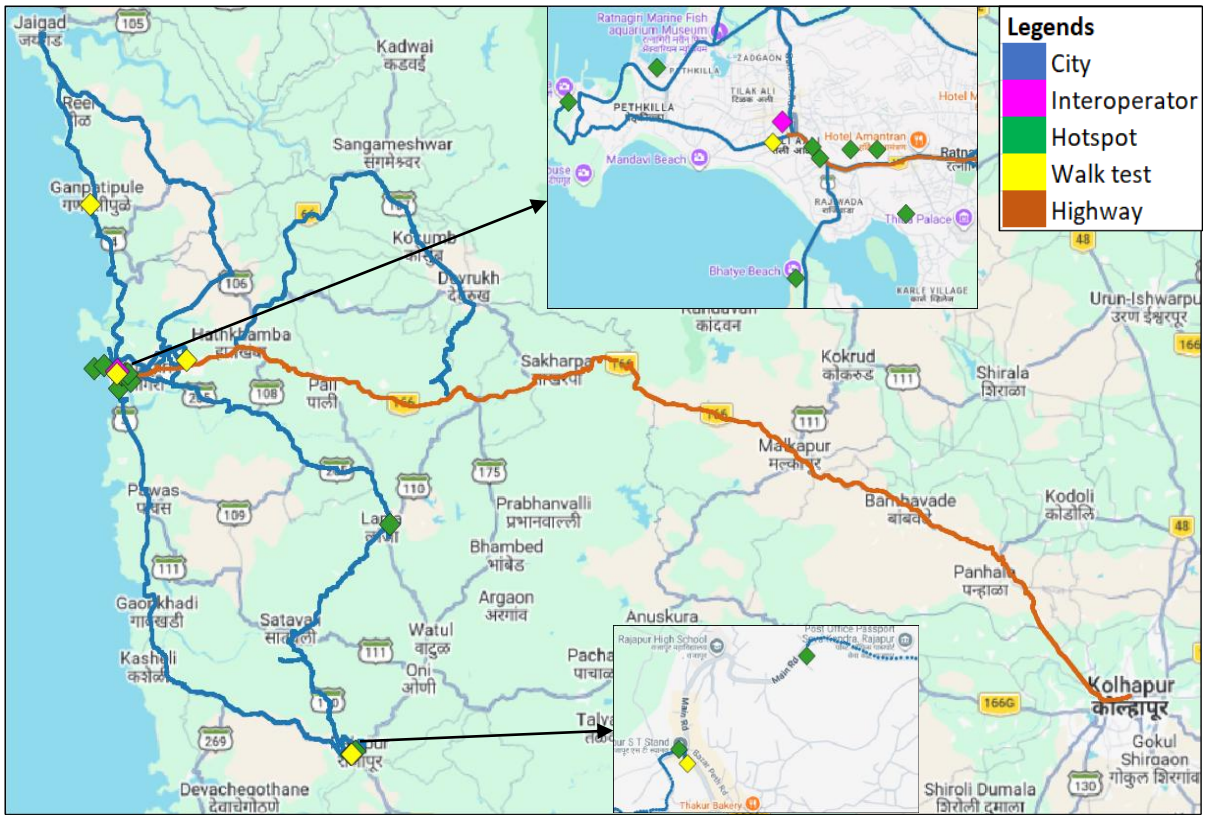
TRAI Assesses Mobile Network Quality Across in Ratnagiri District, Maharashtra LSA.

The Telecom Regulatory Authority of India (TRAI) has released findings of Independent Drive Test (IDT) conducted across **Ratnagiri District, Maharashtra LSA, during the month of September 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.

2. 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.

3. TRAI, through its appointed agency, conducted drive tests across City drive – **346.1 KMs**, Hotspot locations - **11**, Walk Test – **7.6 KMs** and Highway drive of – **131.8 KMs** in **Ratnagiri District** during **08th September to 11th September 2026** in **Maharashtra LSA.** These tests were conducted under the supervision of the TRAI Regional Office **Bengaluru**. 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.

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 Rate, Speech Quality (MOS).
c) **Call Silence Instance**: Number of call silence instance occurred during the calls.
d) **Data Servies:** Download/ Upload Throughput, Latency, Jitter, Packet Drop Rate

6. The overall mobile network performance in Ratnagiri District for the key parameters has been summarised below:-

1. Ratnagiri District

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 **5692**/33673 for **Airtel**, **1484**/40900 for **BSNL**, **1184**/42801 for **RJIL** and **4823**/38305 for **VIL**. 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 **15**/301 for **Airtel**, **32**/338 for **BSNL**, **10**/387 for **RJIL** and **12**/339 for **VIL**. Details of the dropped call locations have been provided in the map A**nnexed**.

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 **15**/282 for **Airtel**, **11**/310 for BSNL, **23**/355 for **RJIL** and **6**/306 for **VIL**. 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 **113.81 Mbps** for **Airtel (5G/4G)**, **4.42 Mbps** for **BSNL (4G)**, **134.77 Mbps** for **RJIL (5G/4G)** and **38.93 Mbps** for **VIL (5G/4G/2G)**. Detail of Download throughput has been provided in the map **Annexed.**

ii) **Data Upload performance (Overall)**: Average upload speed was observed as **17.46 Mbps** for **Airtel (5G/4G)**, **2.62 Mbps** for **BSNL (4G)**, **134.77 Mbps** for **RJIL (5G/4G)** and **38.93 Mbps** for **VIL (5G/4G/2G)**. 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.**

2. Highway Drive – Ratnagiri to Kolhapur

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 **333**/11280 for **Airtel**, **381**/11135 for **BSNL**, **100**/11954 for **RJIL** and **185**/11656 for **VIL**. 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 **6**/56 for **Airtel**, **14**/57 for **BSNL**, **2**/59 for **RJIL** and **7**/62 for **VIL**. Details of the dropped call locations have been provided in the map A**nnexed**.

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 **3**/55 for **Airtel**, **1**/59 for BSNL, **6**/62 for **RJIL** and **1**/61 for **VIL**. 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 **124.67 Mbps** for **Airtel (5G/4G)**, **6.77 Mbps** for **BSNL (4G)**, **269.13 Mbps** for **RJIL (5G/4G)** and **53.05 Mbps** for **VIL (5G/4G/2G)**. Detail of Download throughput has been provided in the map **Annexed.**

ii) **Data Upload performance (Overall)**: Average upload speed was observed as **19.77 Mbps** for **Airtel (5G/4G)**, **6.57 Mbps** for **BSNL (4G)**, **12.27 Mbps** for **RJIL (5G/4G)** and **14.17 Mbps** for **VIL (5G/4G/2G)**. 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 Devale, Kosumb, Navadi, Kurdhunda, Hathkhamba, Mirjole, Jakadevi, Jaigad, Undi, Ganpatipule, Basani, Tilak Ali, Bhatye, Purnagad, Adivare, Rajapur, Dasur, Satavali, Lanja, Punas and Nachane etc.

b) **Highway** - Teli Aali, Karwanchiwadi, Nanij, Kondgaon, Amba, Malkapur, Bambavade and Kerle etc.

c) **Hotspot** - The hot spot locations, capturing stationary user experience, are Bhatye Beach, District Collector Office, Ratnagiri, Lanja ST Bus Stand / Main Town Centre, Rajapur Government Hospital, Rajapur ST Bus Stand, Ratnadurg Fort / Bhagwati Fort, Ratnagiri Fish Market and Fisherman Docking Station, Ratnagiri ST Bus Stand, Superintendent of Police Office, Ratnagiri, Thiba Point, and Zilla Parishad, Ratnagiri.

d) **Walk Test** - The walk tests conducted on 08th and 11th September 2026, Ganpatipule Beach, Rajapur Market Area, Ratnagiri Main Market, and Ratnagiri Railway Station.

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.bengaluru@trai.gov.in or Regional Office of TRAI at Bengaluru RO can be contacted on telephone No. +91-80-22865004.

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(M Ravishankar)
Advisor, TRAI RO Bengaluru

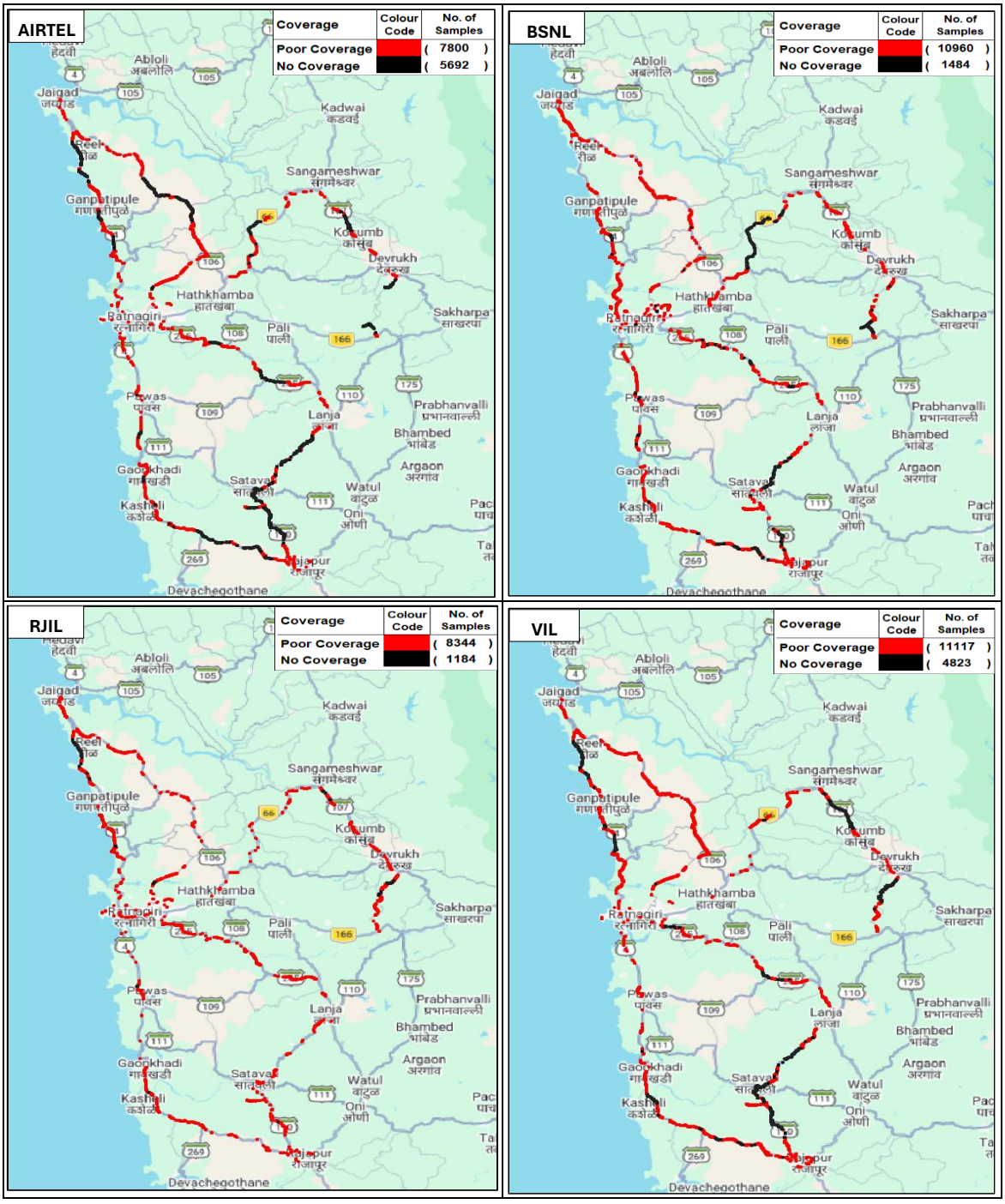
1. District:

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	33673	40900	42801	38305
Number of Samples having poor signal strength	7800	10960	8344	11117
Number of Samples having limited service (No Coverage)	5692	1484	1184	4823

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

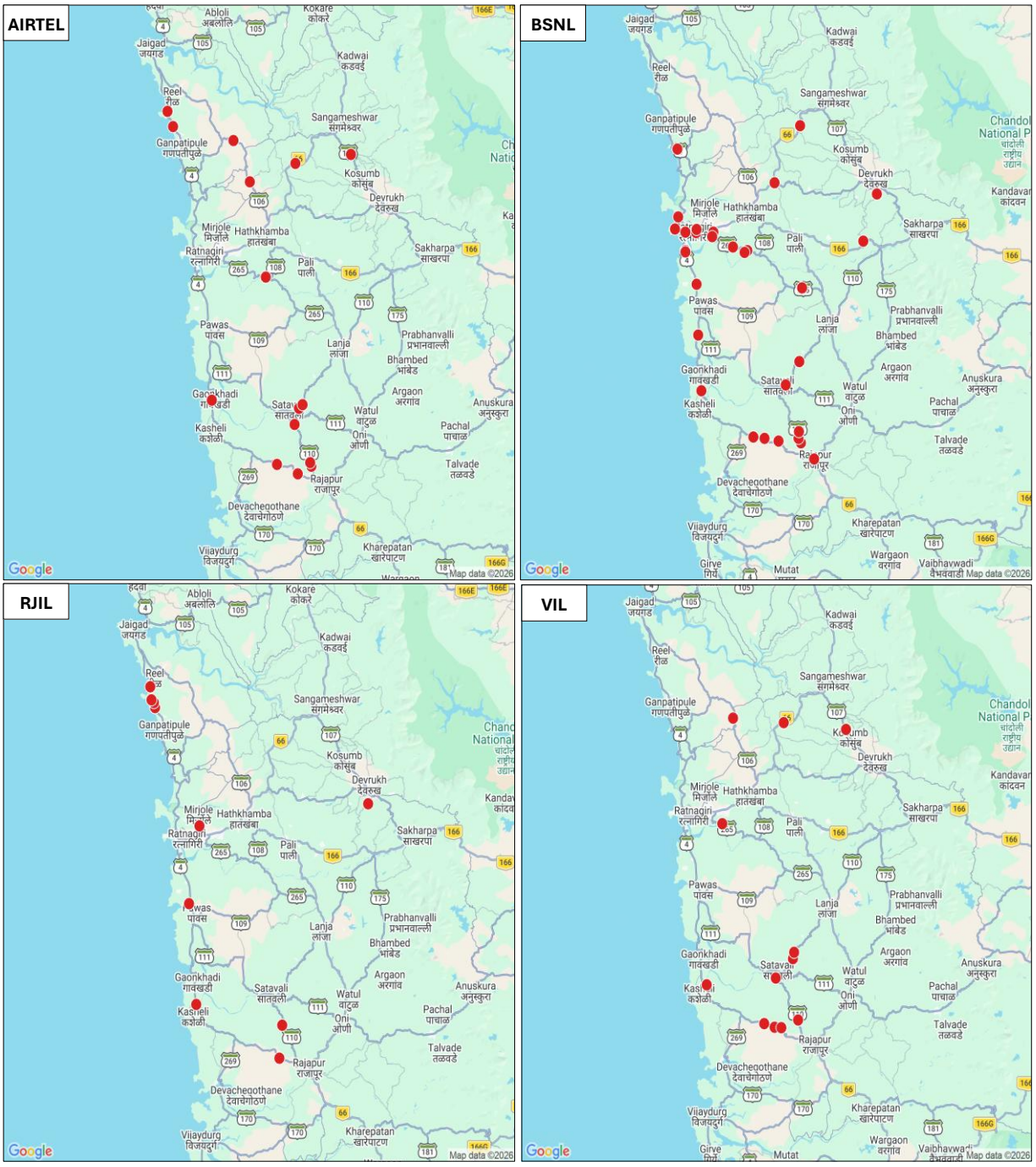


Note: Plot is based on Dynamic Drive Test results only.

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	301	338	387	339
Number of dropped Calls	15	32	10	12

Locations of Dropped Calls

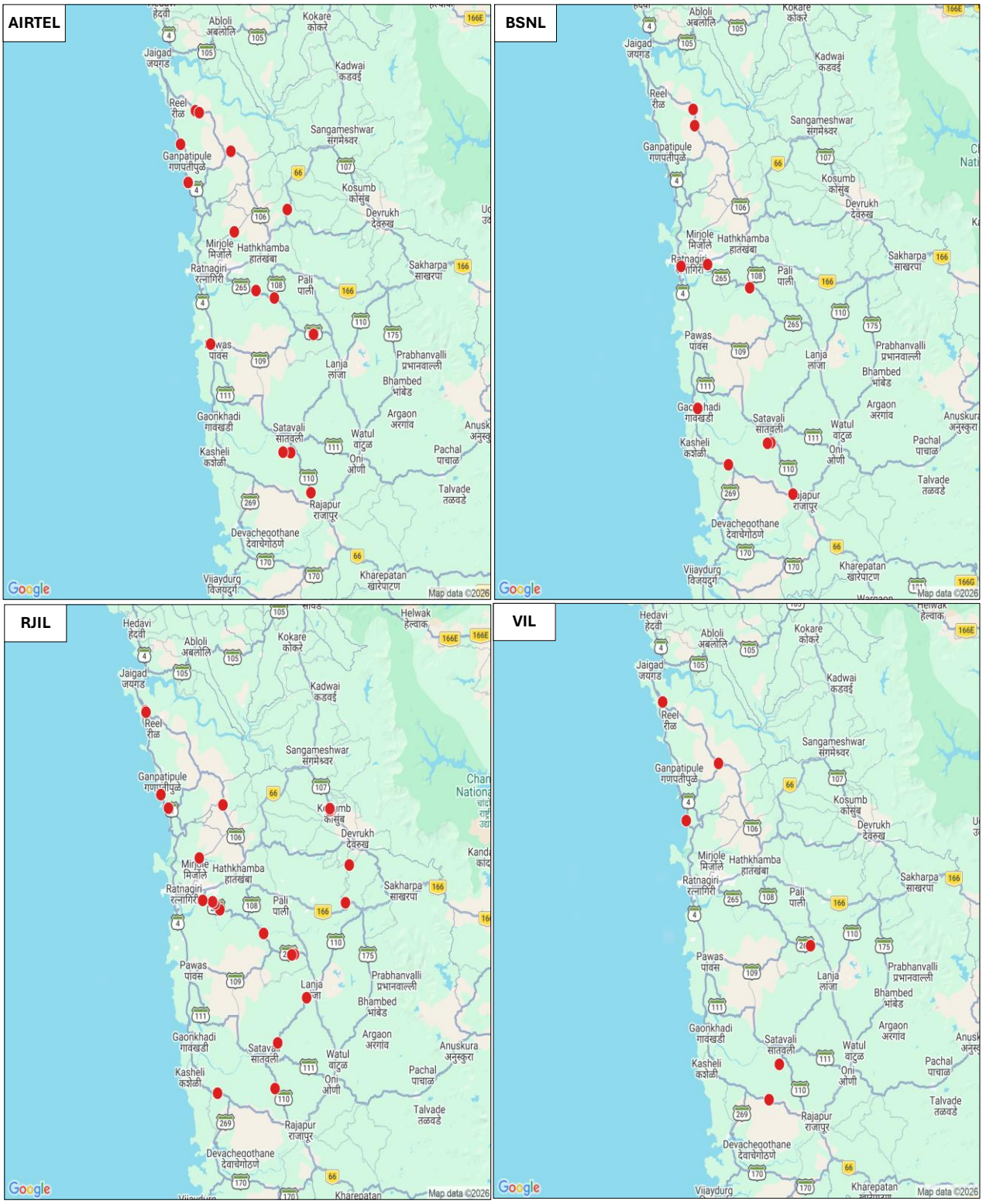


Note: Dropped calls locations are shown in red colour, and which can be clicked to know the exact location (latitude and longitude) on the maps.

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)	282	310	355	306
Number of silences calls for >3 Sec	13	10	20	6
Total number of silence instances for >3 Sec	15	11	23	6

Locations of Call Silence Instance

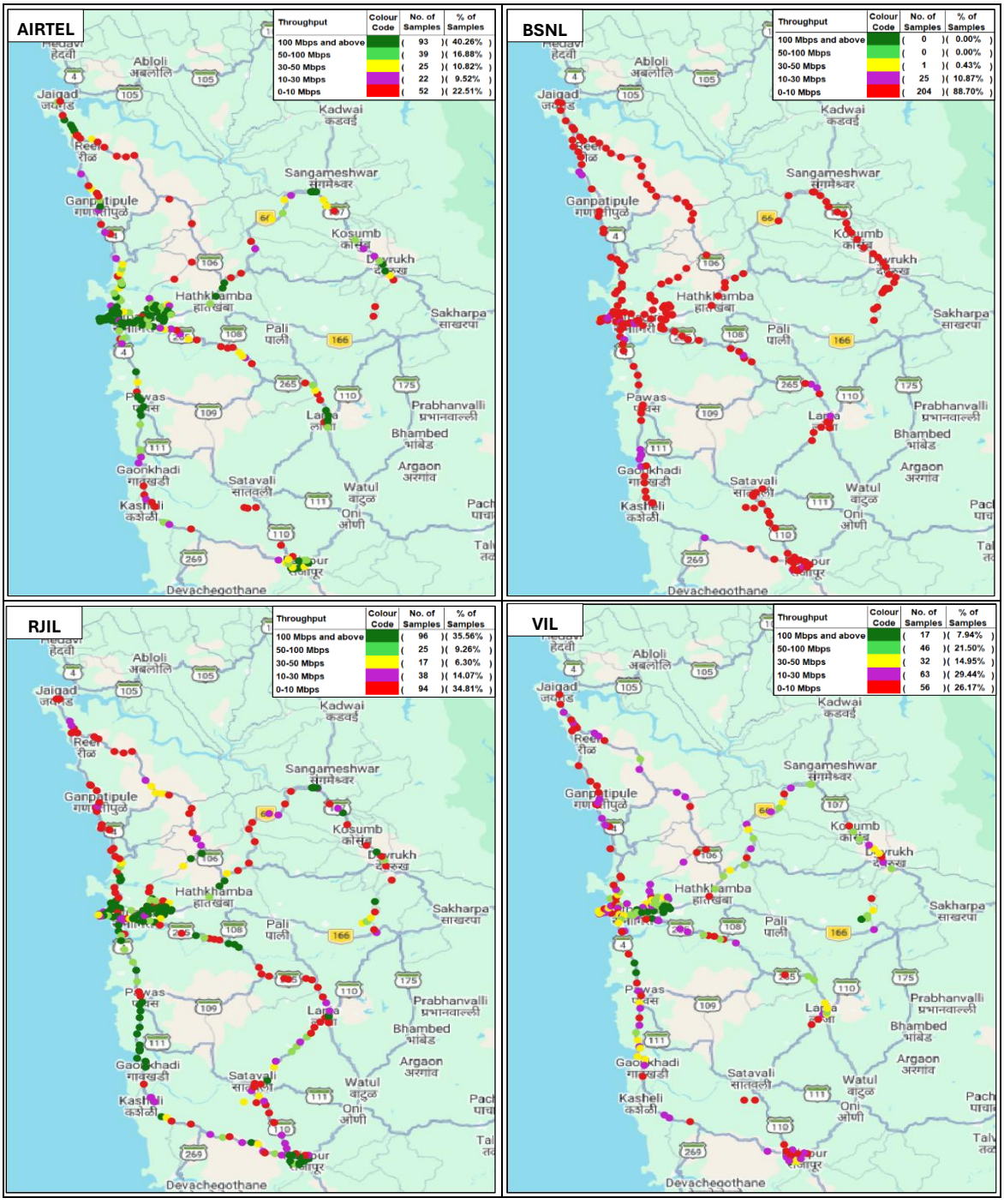


Note: Call silence instances are shown in red colour, and which can be clicked to know the exact location (latitude and longitude) on the map.

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

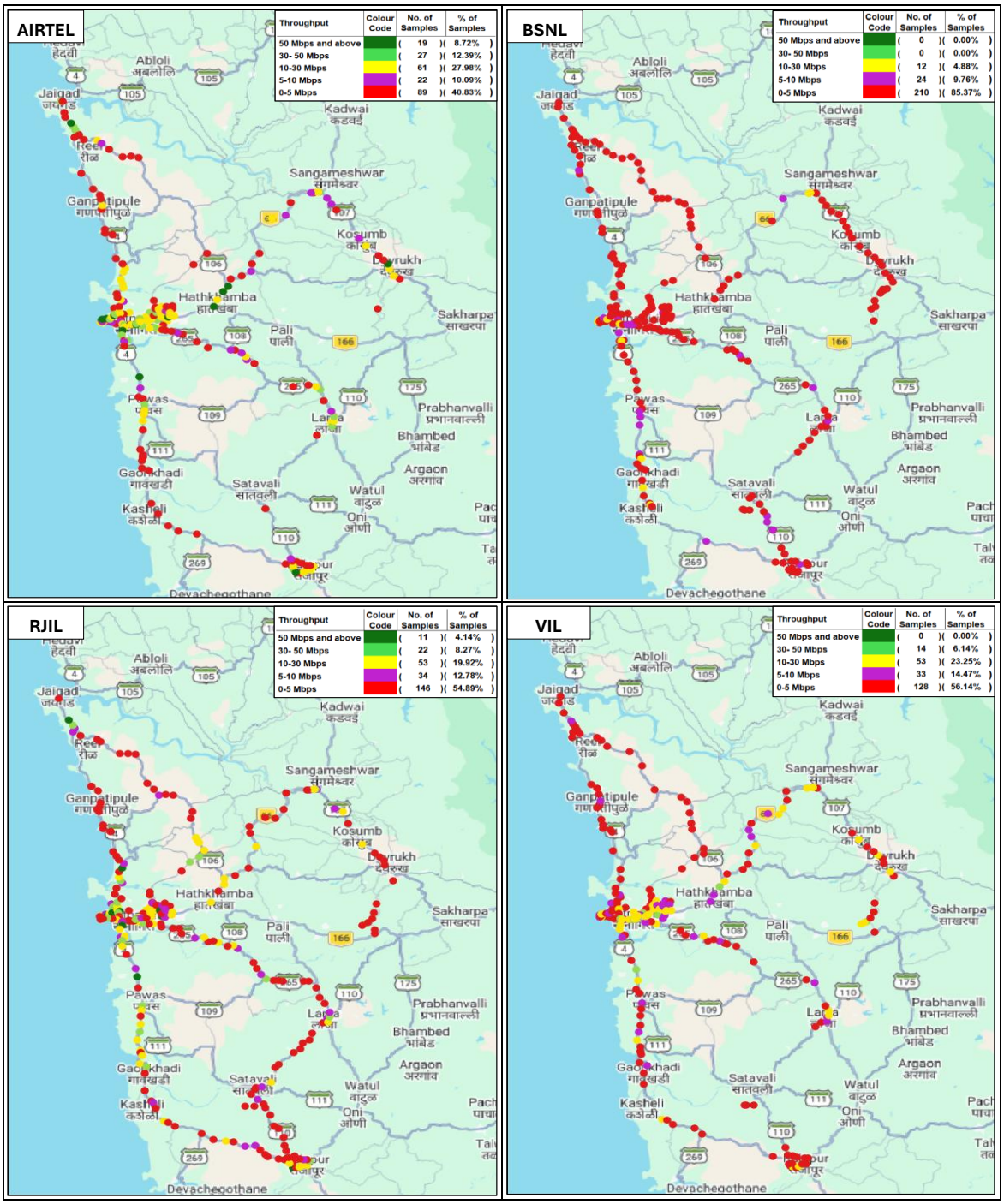
Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 5G)
Typical Download throughput declared by TSP	(Mbits/s)	23.00	5.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	113.81	4.42	134.77	38.93



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)	10.00	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	17.46	2.62	11.40	8.50



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

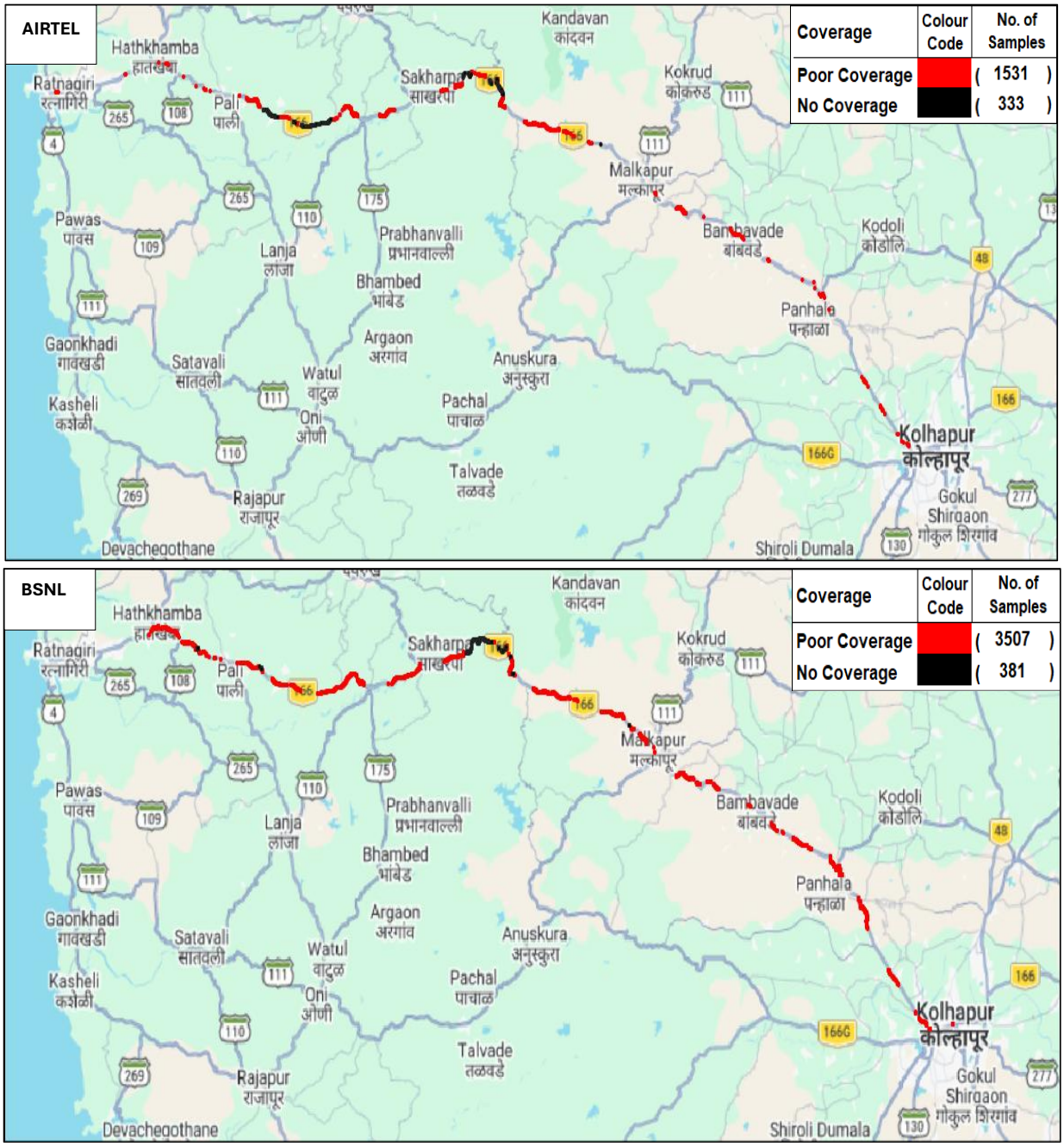
2. Highway - Ratnagiri to Kolhapur (Maharashtra LSA):

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:

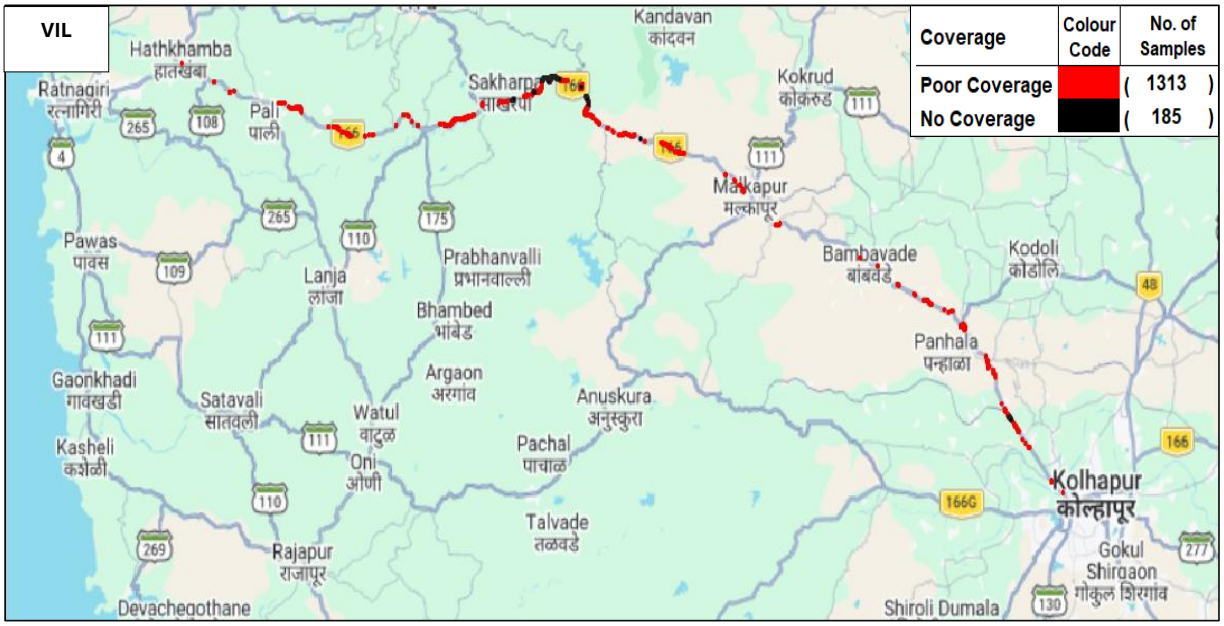
Parameter	AIRTEL	BSNL	RJIL	VIL
Total Number of Samples captured on Drive test route	11280	11135	11954	11656
Number of Samples having poor signal strength	1531	3507	509	1313
Number of Samples having limited service (No Coverage)	333	381	100	185

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





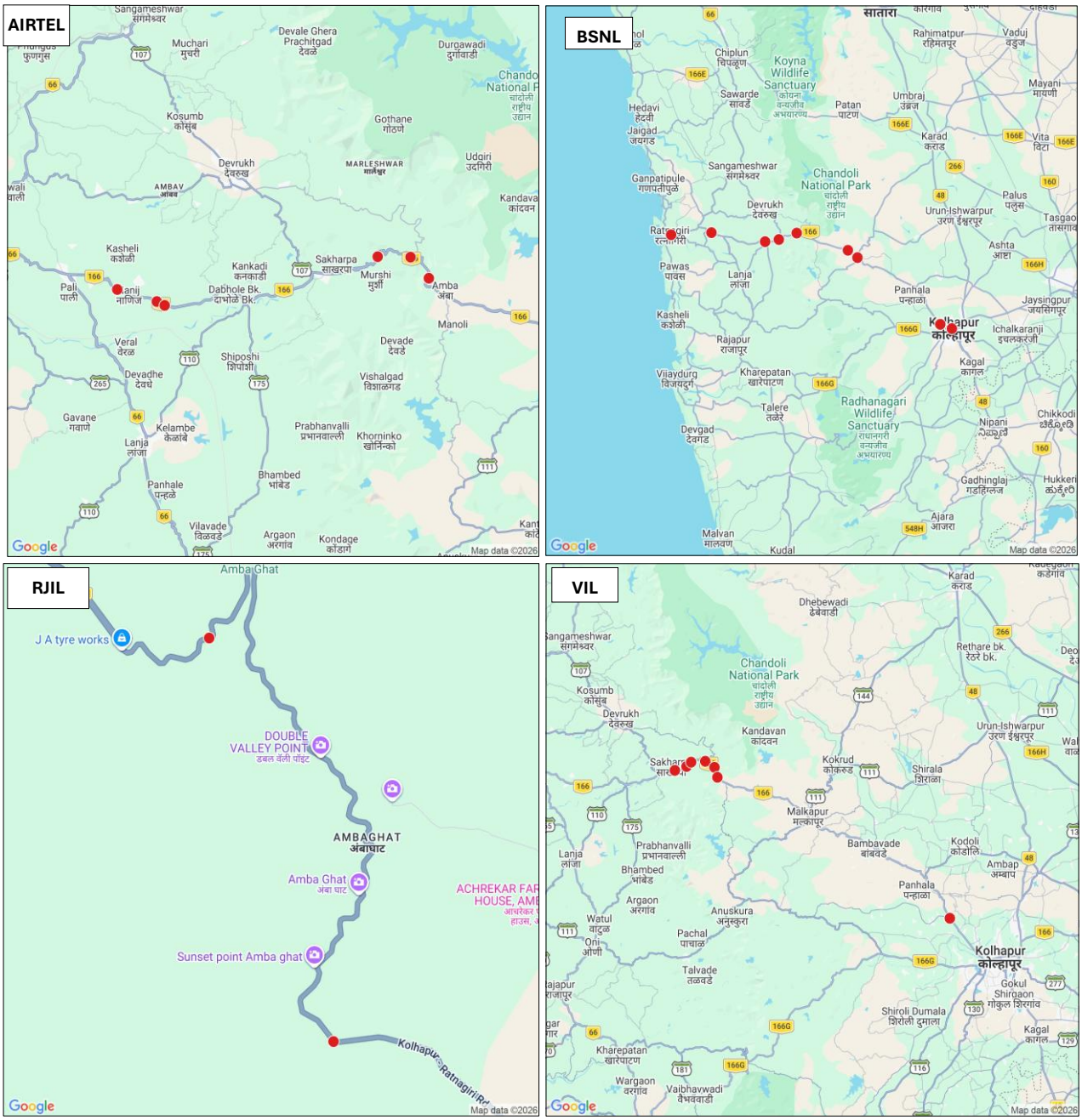


Note: Plot is based on Dynamic Drive Test results only.

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	56	57	59	62
Number of dropped Calls	6	14	2	7

Locations of Dropped Calls

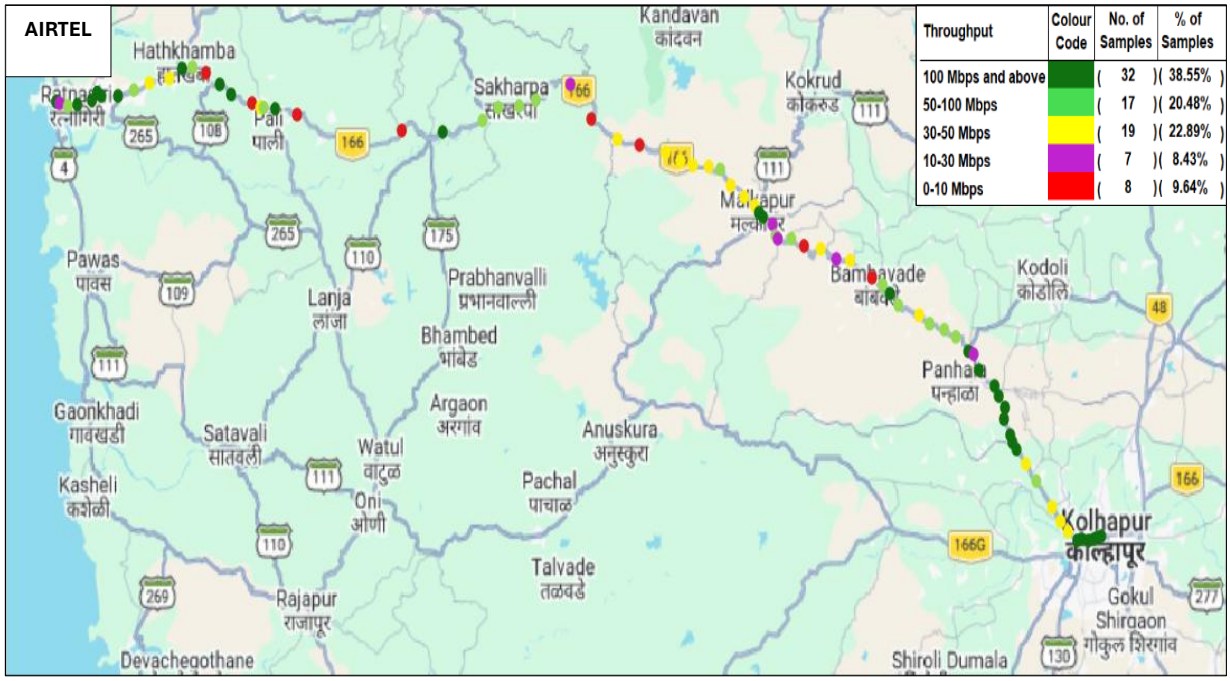


Note: Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

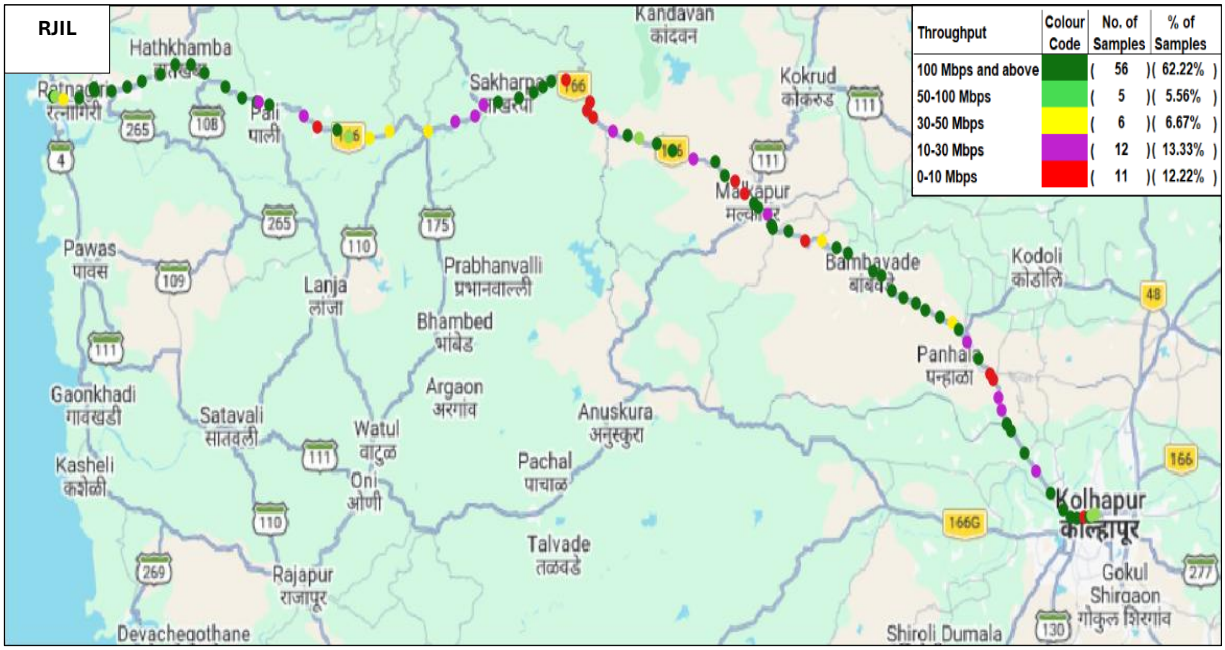
c) Data Download and Upload throughput: The TSP-wise details of **Average Download (DL)** and **Upload (UL) throughput** against declared typical DL/UL Throughput for month, in Auto-selection mode (5G/4G/3G/2G) are as below:

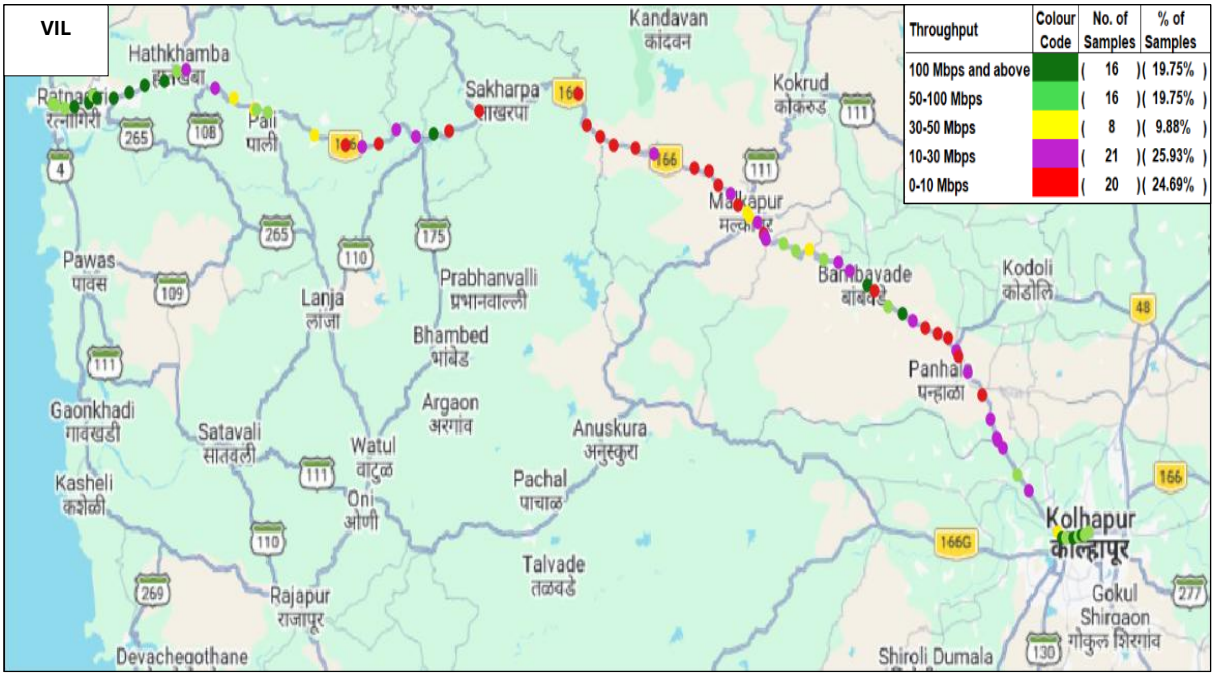
(i) Download Throughput

Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 5G)
Typical Download throughput declared by TSP	(Mbits/s)	23.00	5.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	124.67	6.77	269.13	53.05









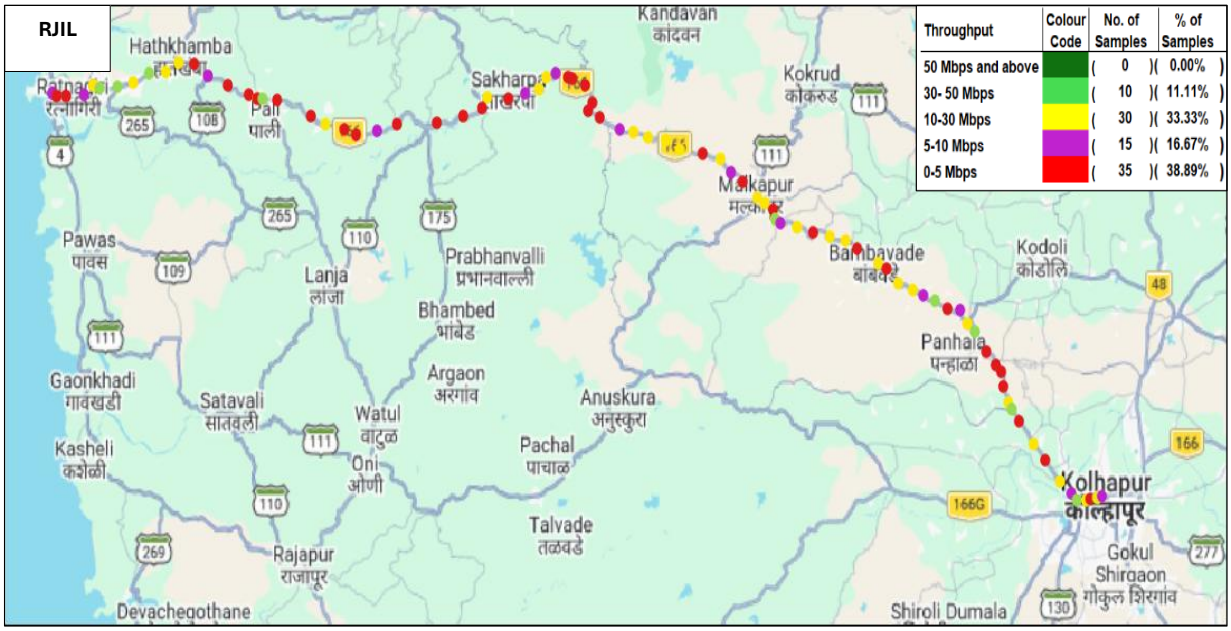
Note: Plot is based on Dynamic Drive Test results only.

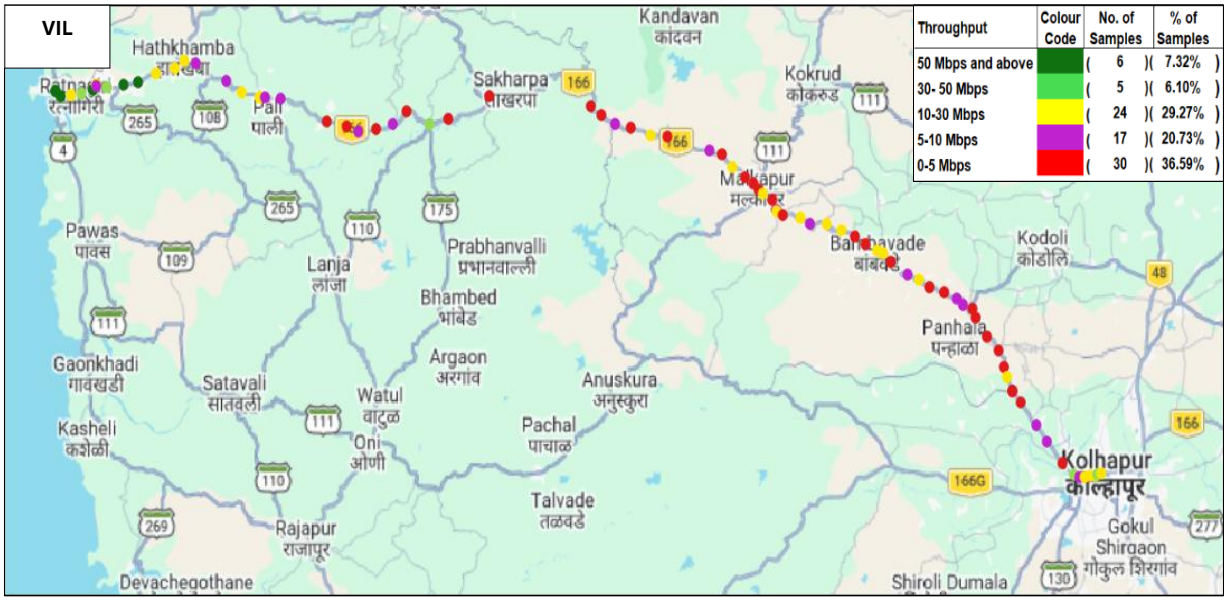
(ii) Upload Throughput

Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 5G)
Typical upload throughput declared by TSP	(Mbits/s)	10.00	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	19.77	6.57	12.27	14.17









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