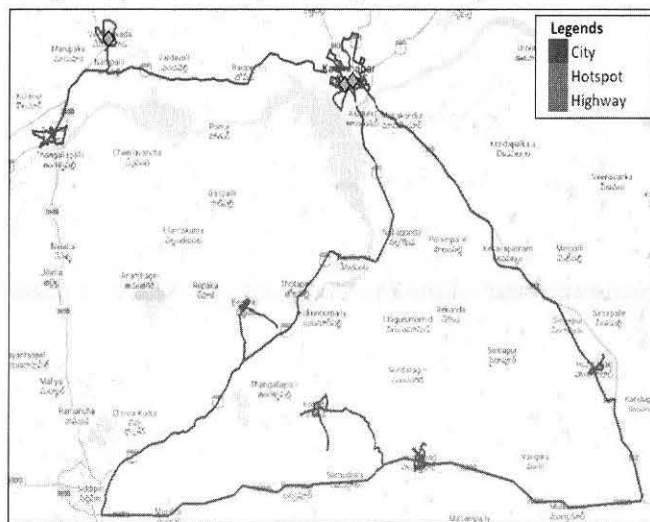


TRAI Assesses Mobile Network Quality Across, City - Vavilalapally, Vidyanagar, Ashoknagar, Mukarampura, Vemulawada, B.Y. Nagar, Rajanna Sircilla, Bejjanki, Koheda, Husnabad etc in Karimnagar and surrounding towns.

Highway - Karimnagar-Vemulawada-Sircilla and Karimnagar-Bejjanki-Husnabad-Mulkanoor-Elkaturthy-Huzurabad- Karimnagar. Passing through Siddipet bypass, Samudrala and Kesavapatnam etc..

The Telecom Regulatory Authority of India (TRAI) has released findings of Independent Drive Test (IDT) conducted across Karimnagar City and Highway under AP LSA, during the month of May 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 – 136.3 Kms, Hotspot locations - 3, Highway – 217.2 Kms in Karimnagar and surrounding towns and Karimnagar-Vemulawada-Sircilla and Karimnagar-Bejjanki- Husnabad- Mulkanoor-Elkaturthy-Huzurabad- Karimnagar - Highway during 11th May 2026 to 12th May 2026 in Andhra Pradesh LSA. These tests were conducted under the supervision of the TRAI Regional Office Hyderabad. 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 and Highway and Hotspots 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 Services:** Download/ Upload Throughput, Latency, Jitter, Packet Drop Rate

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

**1. Karimnagar and surrounding towns:**

- a) **Coverage Gap** – (i) 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 103/24435 for **Airtel**, 1879/24174 for **BSNL**, 271/24231 for **RJIL** and 747/24307 for **VIL**. Details of the coverage gaps have been provided in the map **Annexed**.

(ii)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 **Limited Service (No Coverage)** out of the total samples collected, was **0/24435** for **Airtel**, **22/24174** for **BSNL**, **0/24231** for **RJIL** and **0/24307** 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 0/218 for **Airtel**, 1/215 for **BSNL**, 1/218 for **RJIL** and **1/218** for **VIL**. 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 0/212 for **Airtel**, 12/171 for **BSNL** 1/211 **RJIL** and 2/211 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 115.67 Mbps for **Airtel (5G/4G)**, 7.32 Mbps for **BSNL (3G)**, 217.63 Mbps for **RJIL (5G/4G)** and 18.96 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 22.79 Mbps for **Airtel (5G/4G)**, 2.07 Mbps for **BSNL (3G)**, 19.88 Mbps for **RJIL (5G/4G)** and 6.07 Mbps for **VIL (5G/4G/2G)**. Detail of Upload throughput has been provided in the map **Annexed**.

**2. Highway :Karimnagar-Vemulawada-Siricilla and Karimnagar-Bejjanki-Husnabad- Mulkanoor Elkaturthy-Huzurabad- Karimnagar**

- 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 384/16743 for **Airtel**, 3657/16413 for **BSNL**, 1021/16646 for **RJIL** and 1687/16718 for **VIL**. Details of the coverage gaps have been provided in the map **Annexed**.

(ii) 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 **Limited**

**Service (No Coverage)** out of the total samples collected, was **0/16743** for **Airtel**, **126/16413** for **BSNL**, **0/16646** for **RJIL** and **0/16718** 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 0/85 for **Airtel**, 13/87 for **BSNL**, 0/85 for **RJIL** and 3/80 for **VIL**. 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 3/84 for **Airtel**, 6/75 for **BSNL** 4/83 **RJIL** and 8/83 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 143.64 Mbps for **Airtel** (5G/4G), 8.31 Mbps for **BSNL** (3G), 255.87 Mbps for **RJIL** (5G/4G) and 20.59 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 22.26 Mbps for **Airtel** (5G/4G), 2.37 Mbps for **BSNL** (3G), 18.39 Mbps for **RJIL** (5G/4G) and 6.79 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**.

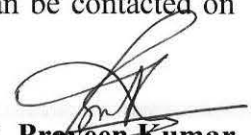
7. Details of drive test route and area covered during the IDT is as under:-

City - Vavilalapally, Vidyanagar, Ashoknagar, Mukarampura, Vemulawada, B.Y. Nagar, Rajanna Sircilla, Bejjanki, Koheda, Husnabad etc in Karimnagar and surrounding towns.

Highway - Karimnagar-Vemulawada-Sircilla and Karimnagar-Bejjanki-Husnabad-Mulkanoor- Elkaturthy-Huzurabad- Karimnagar. Passing through Siddipet bypass, Samudrala and Kesavapatnam etc.

**Hotspot** - The hot spot locations, capturing stationary user experience, are  
1. Collectorate Office Karimnagar 2. Tower Circle Karimnagar 3. Vemulawada Temple and Market Street.

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](http://www.trai.gov.in). For any clarification or additional information, an email can be sent to [adv.hydreabad@traai.gov.in](mailto:adv.hydreabad@traai.gov.in) or Regional Office of TRAI can be contacted on telephone no. 040-23000761.

  
**B. Praveen Kumar**  
Advisor, RO Hyderabad

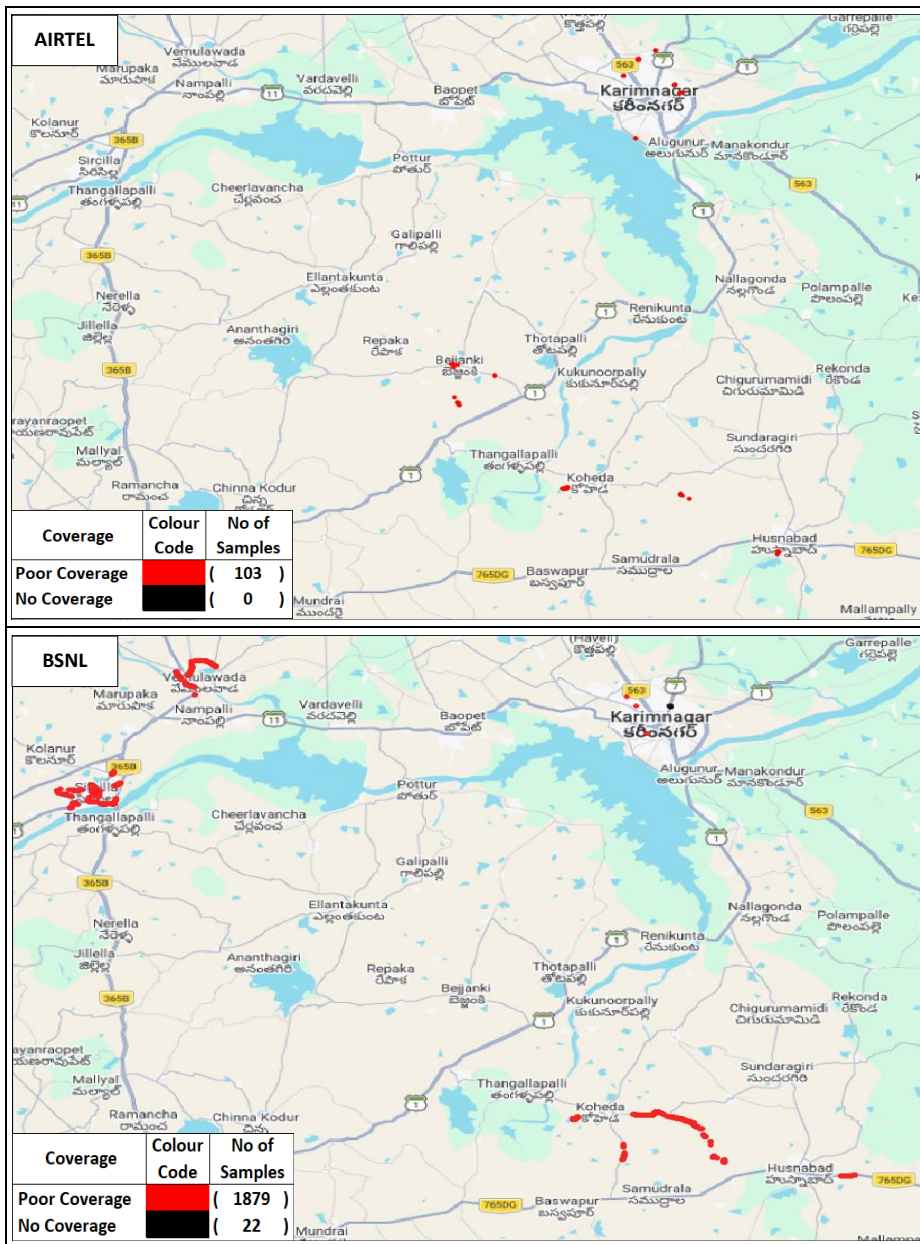
1. Karimnagar and surrounding towns:

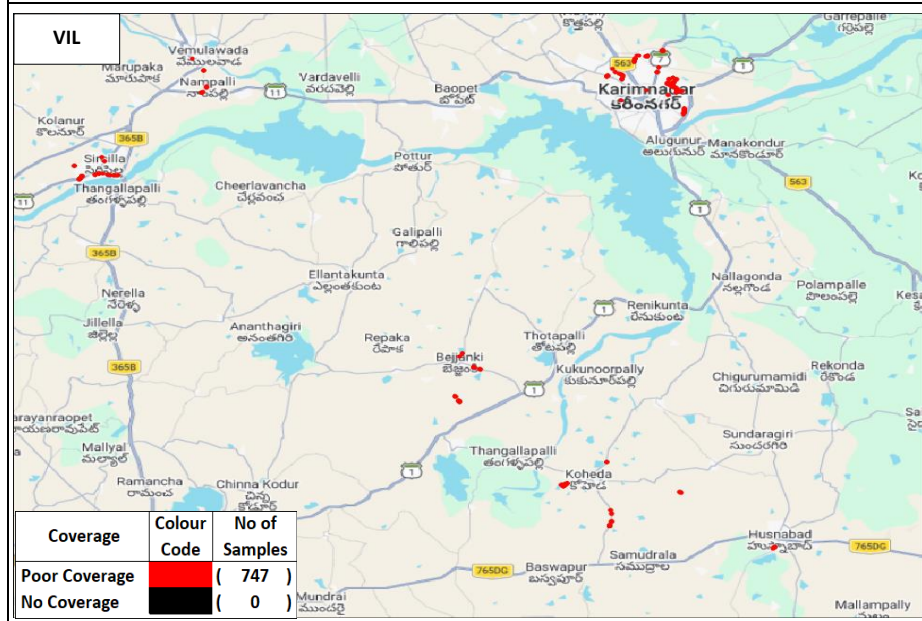
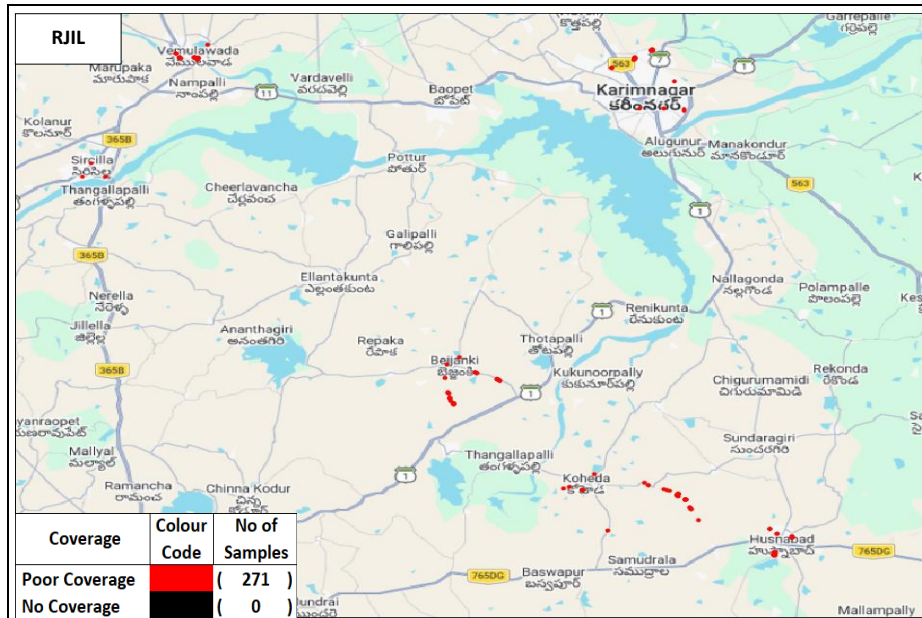
- a) **Coverage Gap** – The coverage distribution found less than the minimum specified signal strength for the drive test route in auto-selection mode (5G/4G/3G/2G) during voice testing, is as below:

Parameter	AIRTEL	BSNL	RJIL	VIL
Total Number of Samples captured on Drive test route	24435	24174	24231	24307
Number of Samples having poor signal strength	103	1879	271	747
Number of Samples having limited service (No Coverage)	0	22	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



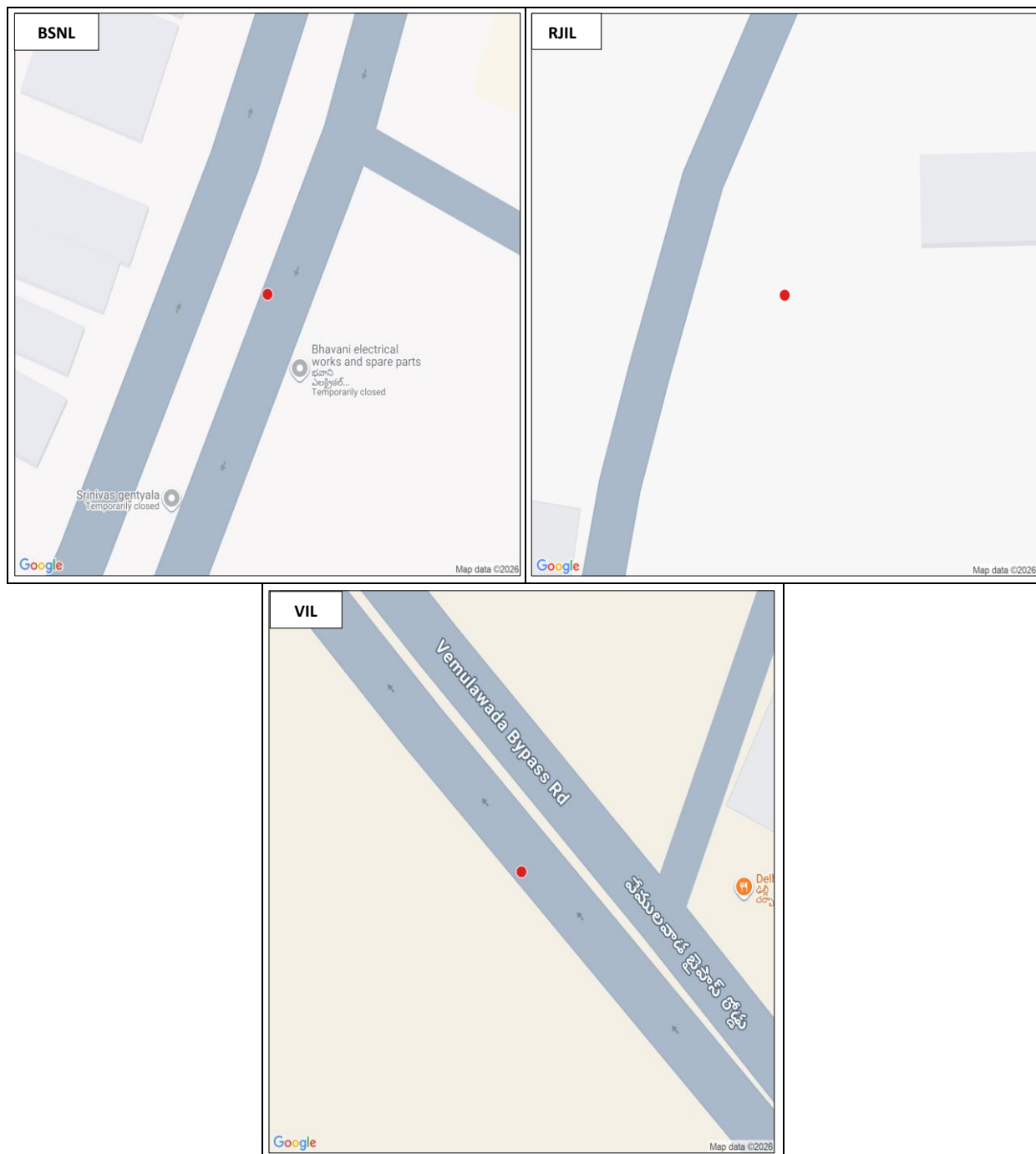


**Note:** Plot is based on Dynamic Drive Test results only.

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	218	215	218	218
Number of dropped Calls	0	1	1	1

### Locations of Dropped Calls

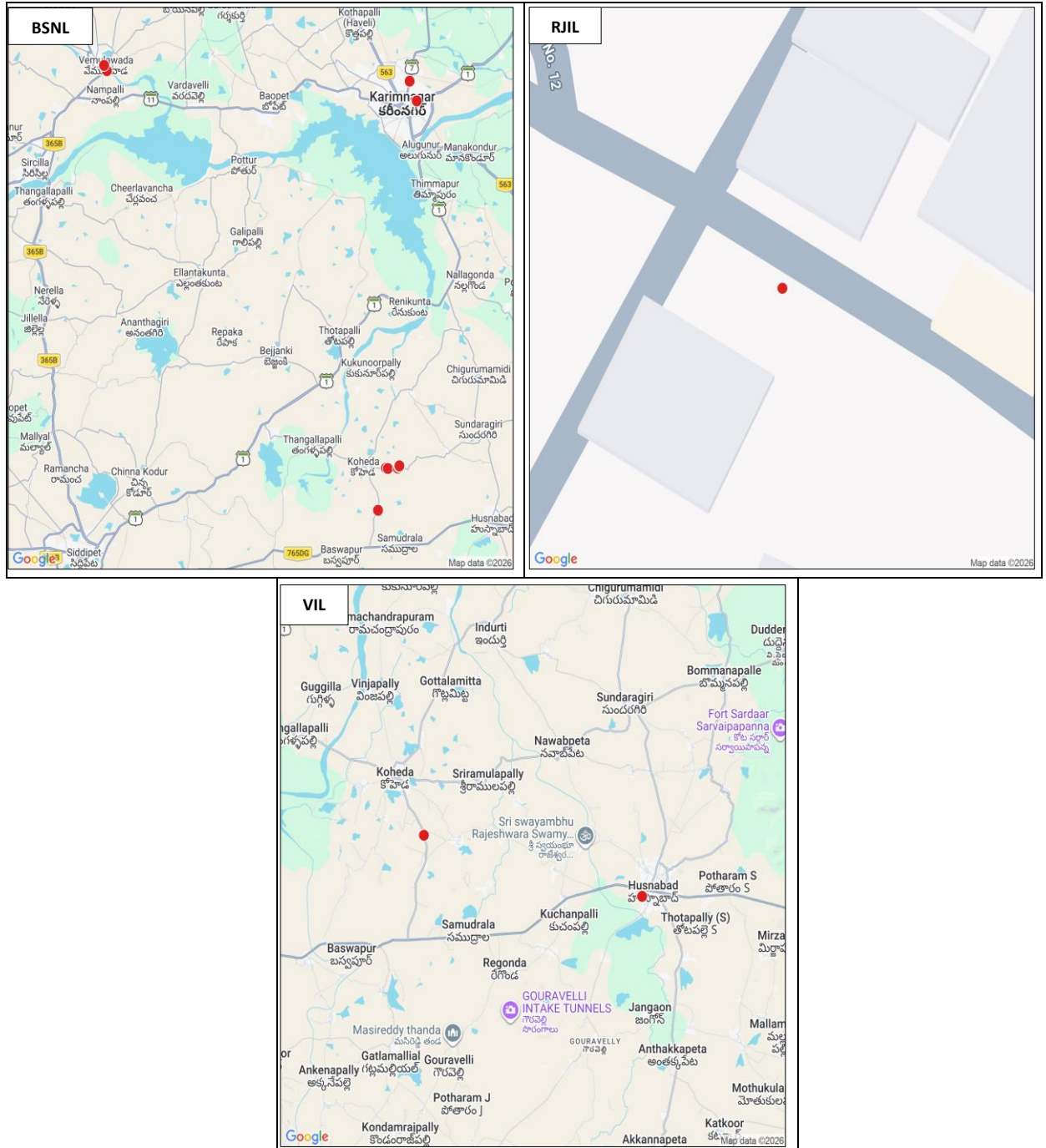


**Note:** Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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)	212	171	211	211
Number of silences calls for >3 Sec	0	7	1	2
Total number of silence instances for >3 Sec	0	12	1	2

**Locations of Call Silence Instance**

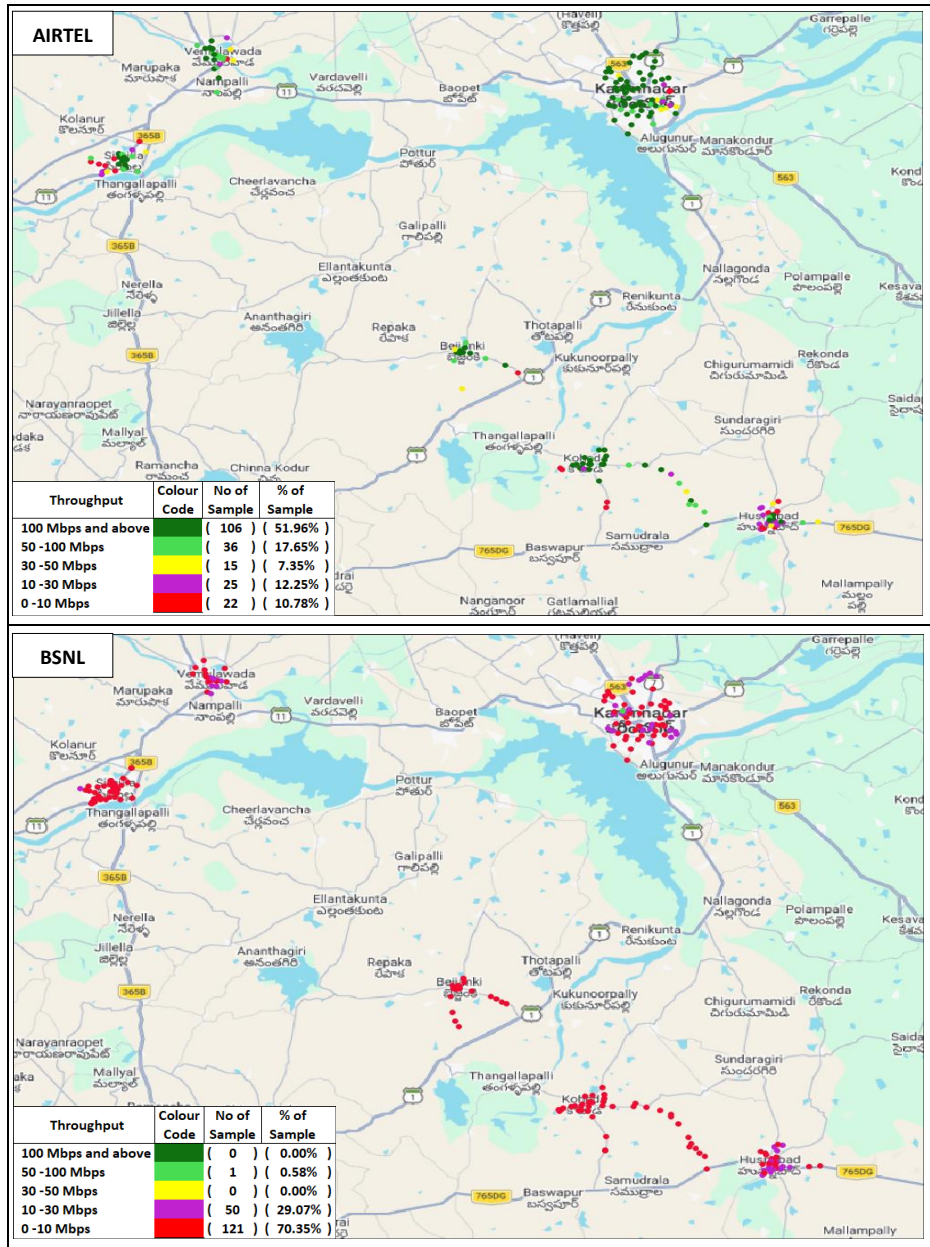


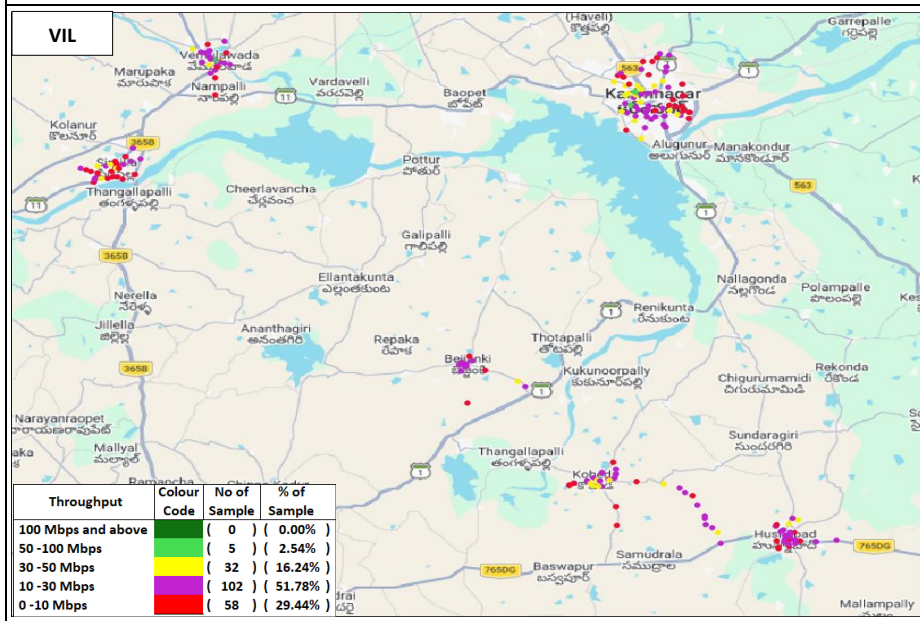
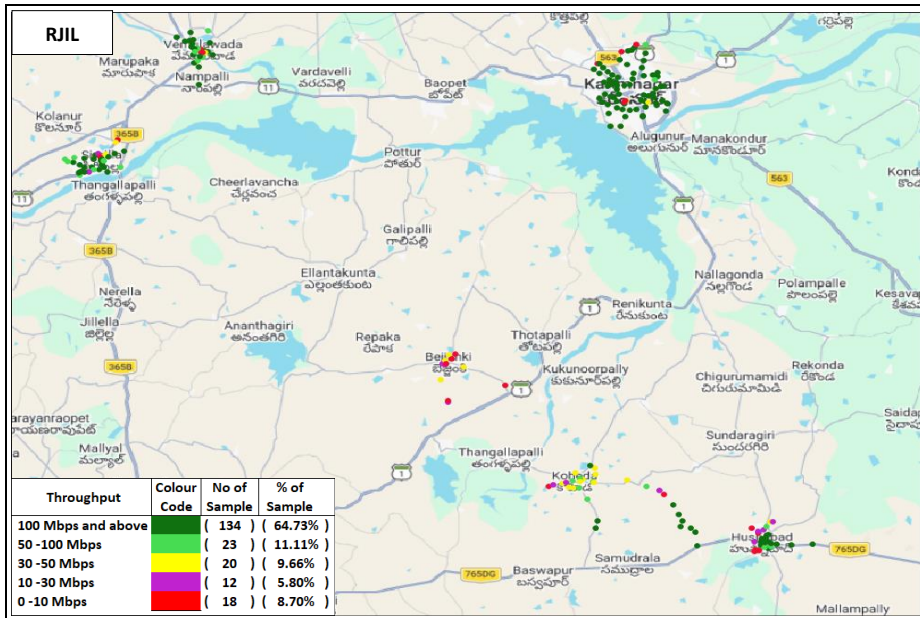
**Note:** Call silence instances are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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)	16.91	3.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	115.67	7.32	217.63	18.96

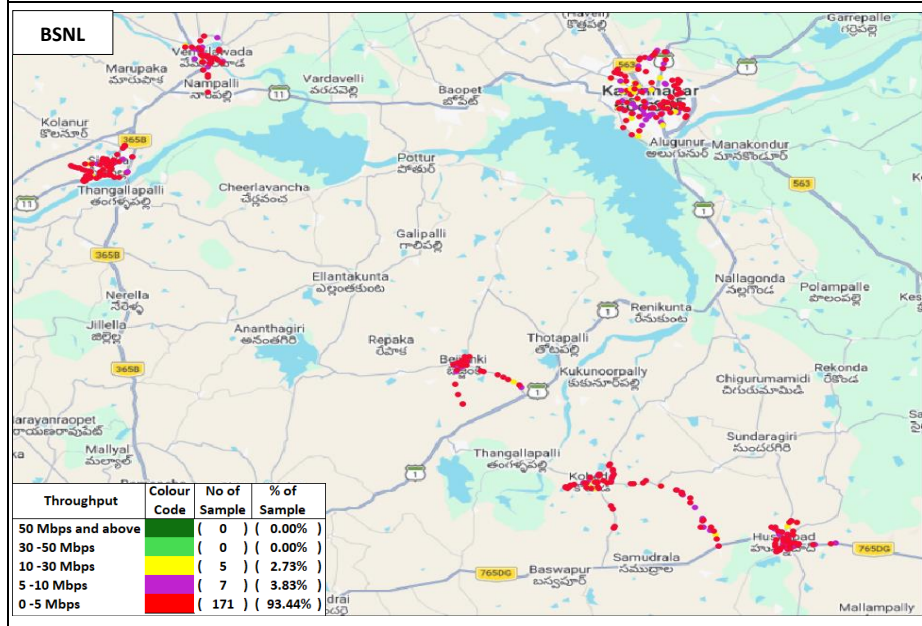
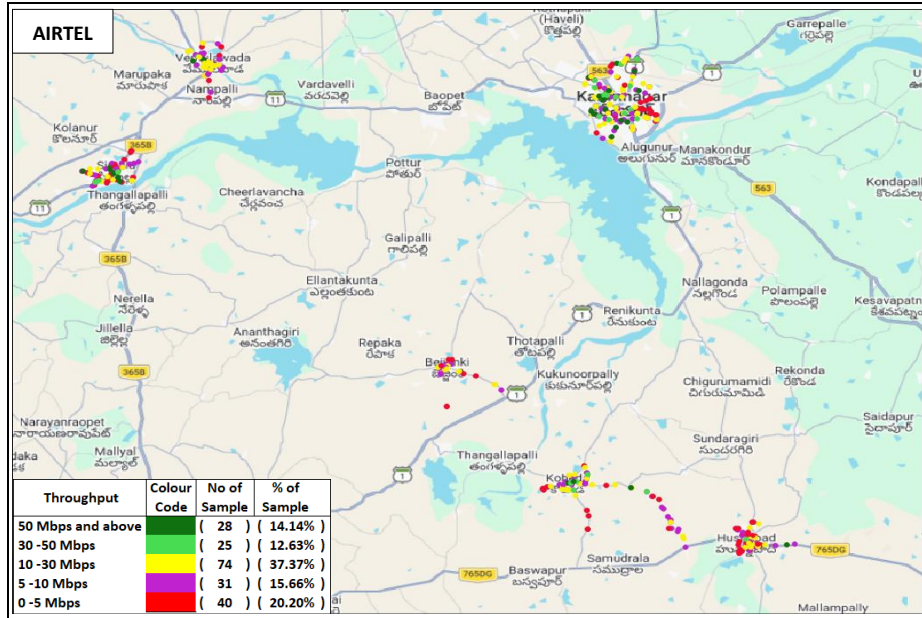


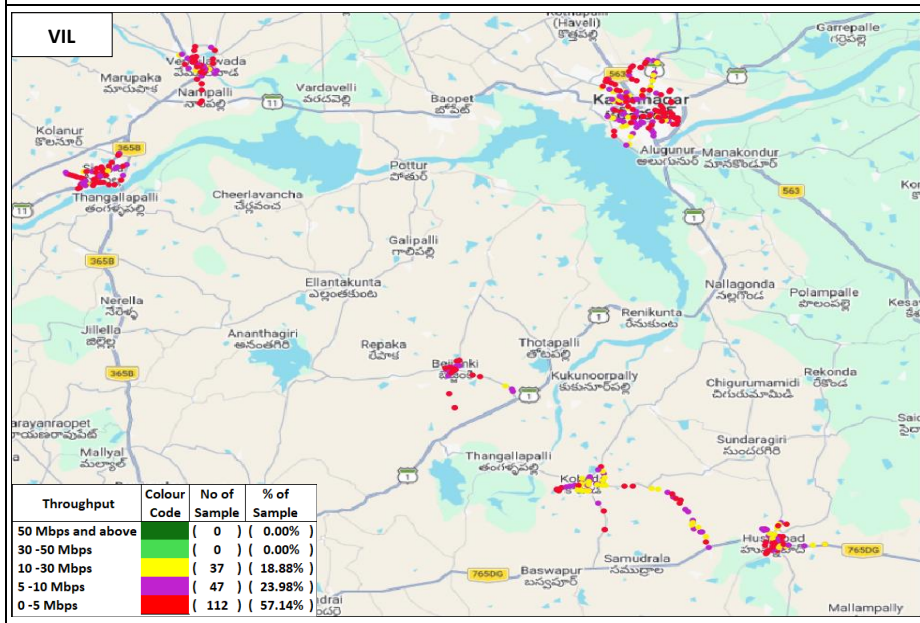
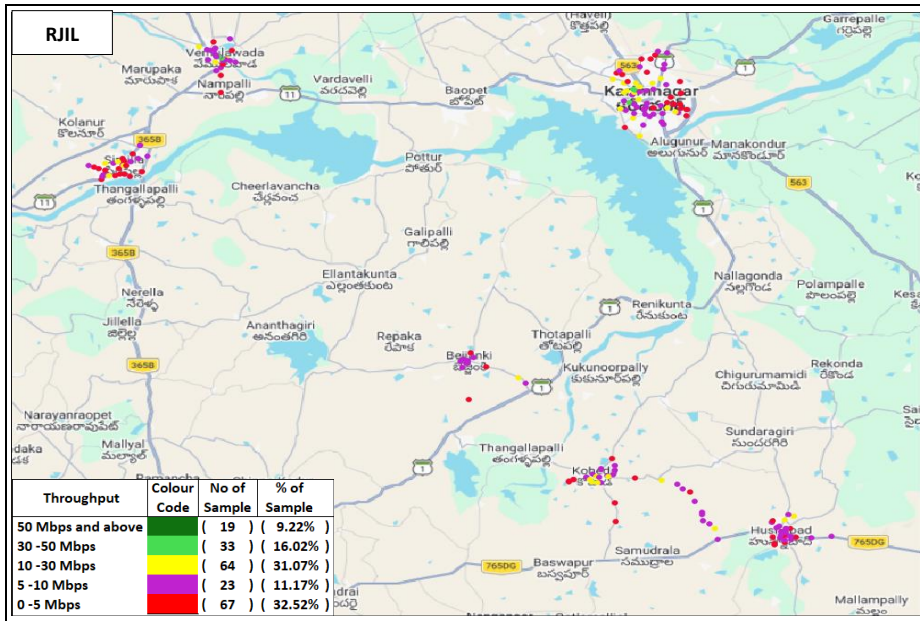


**Note:** Plot is based on Dynamic Drive Test results only.

(ii) Upload Throughput

Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 4G)
Typical upload throughput declared by TSP	(Mbits/s)	4.98	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	22.79	2.07	19.88	6.07





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

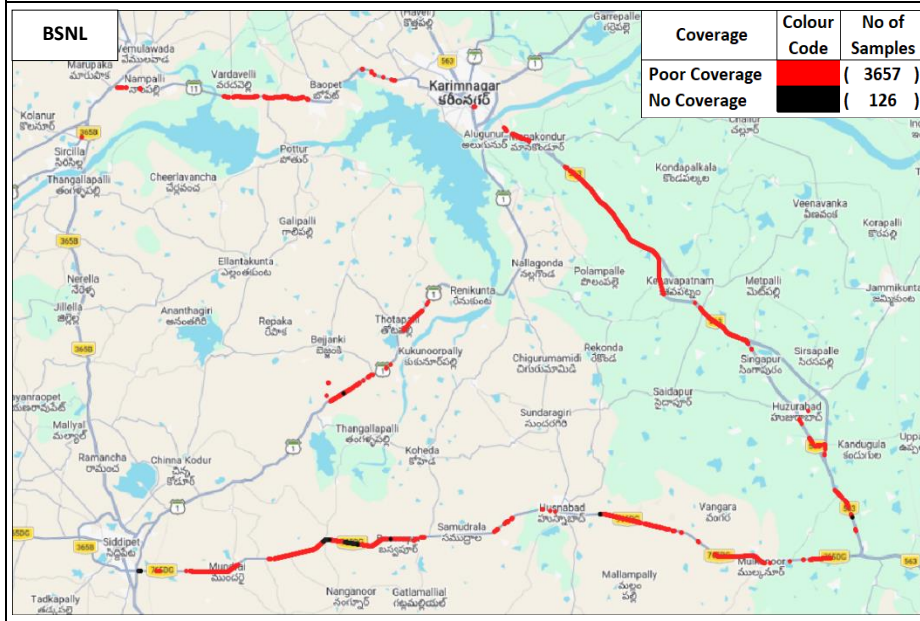
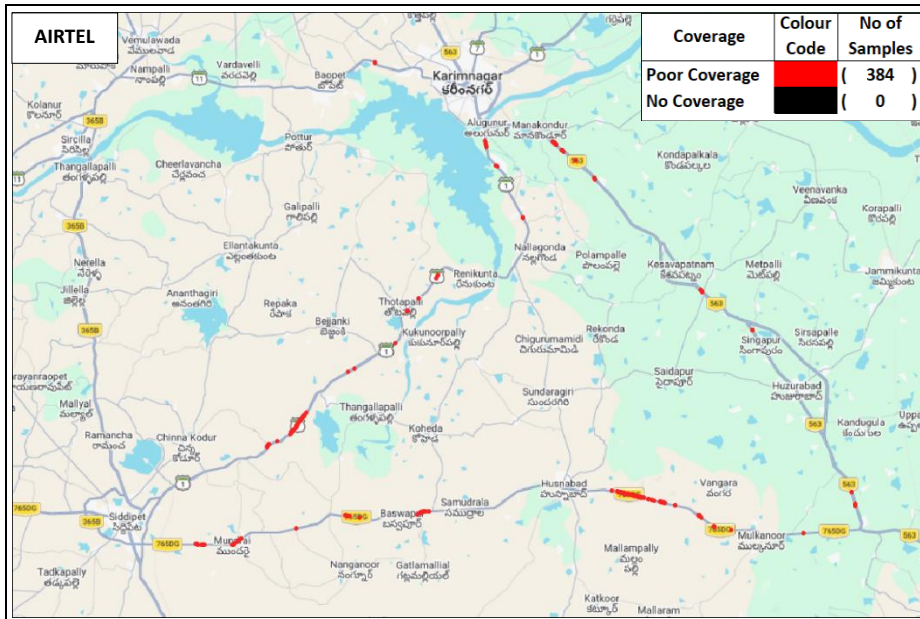
**2.Karimnagar-Vemulawada-Sircilla and Karimnagar-Bejjanki- Husnabad- Mulkanoor-Elkaturthy-Huzurabad- Karimnagar**

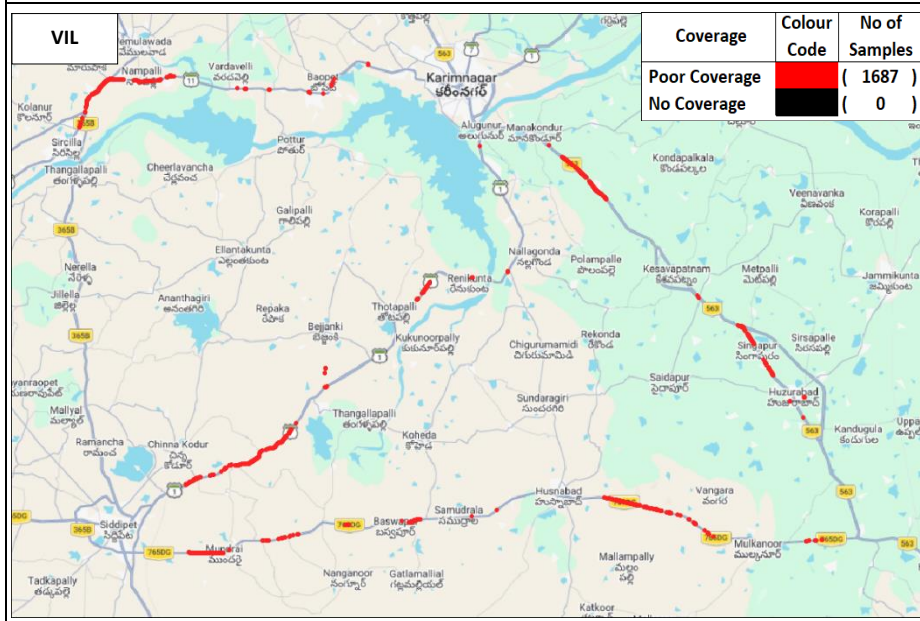
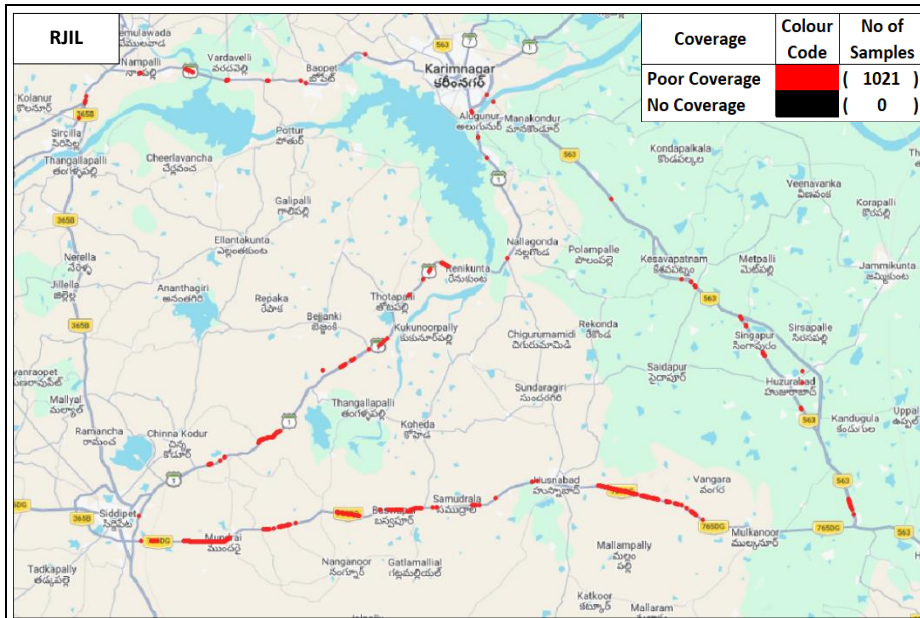
a) **Coverage Gap** – The coverage distribution found less than the minimum specified signal strength for the drive test route in auto-selection mode (5G/4G/3G/2G) during voice testing, is as below:

Parameter	AIRTEL	BSNL	RJIL	VIL
Total Number of Samples captured on Drive test route	16743	16413	16646	16718
Number of Samples having poor signal strength	384	3657	1021	1687
Number of Samples having limited service (No Coverage)	0	126	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**



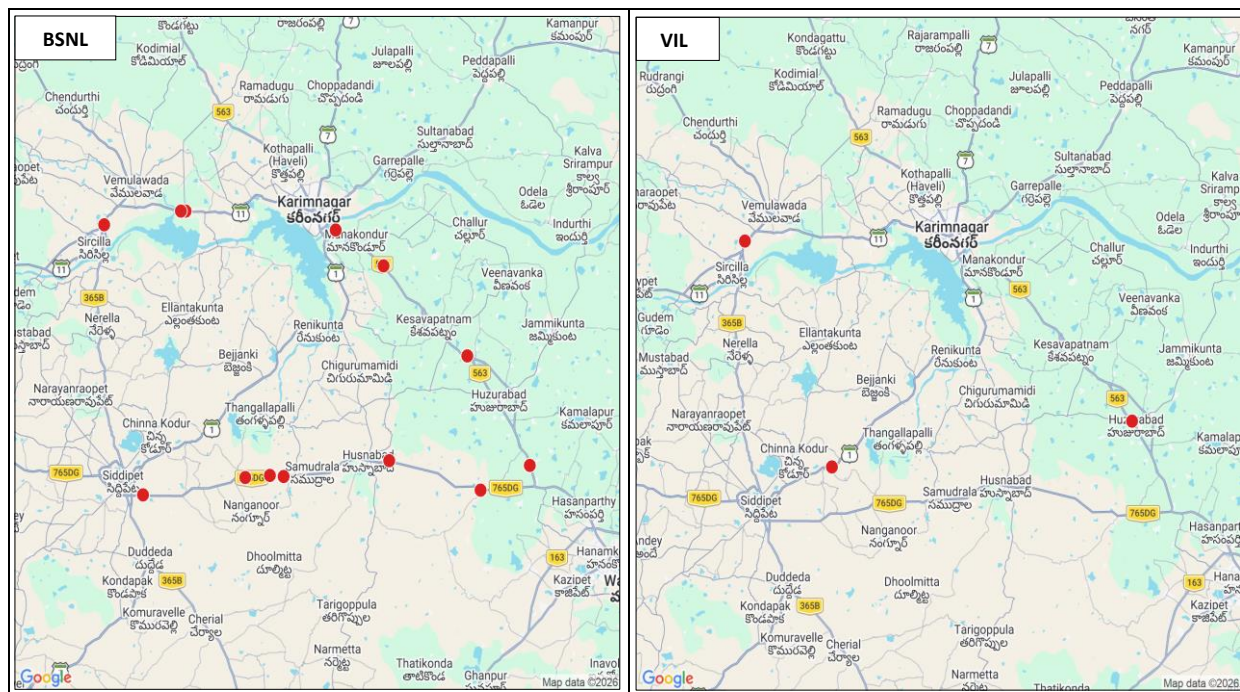


**Note:** Plot is based on Dynamic Drive Test results only.

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	85	87	85	80
Number of dropped Calls	0	13	0	3

### Locations of Dropped Calls

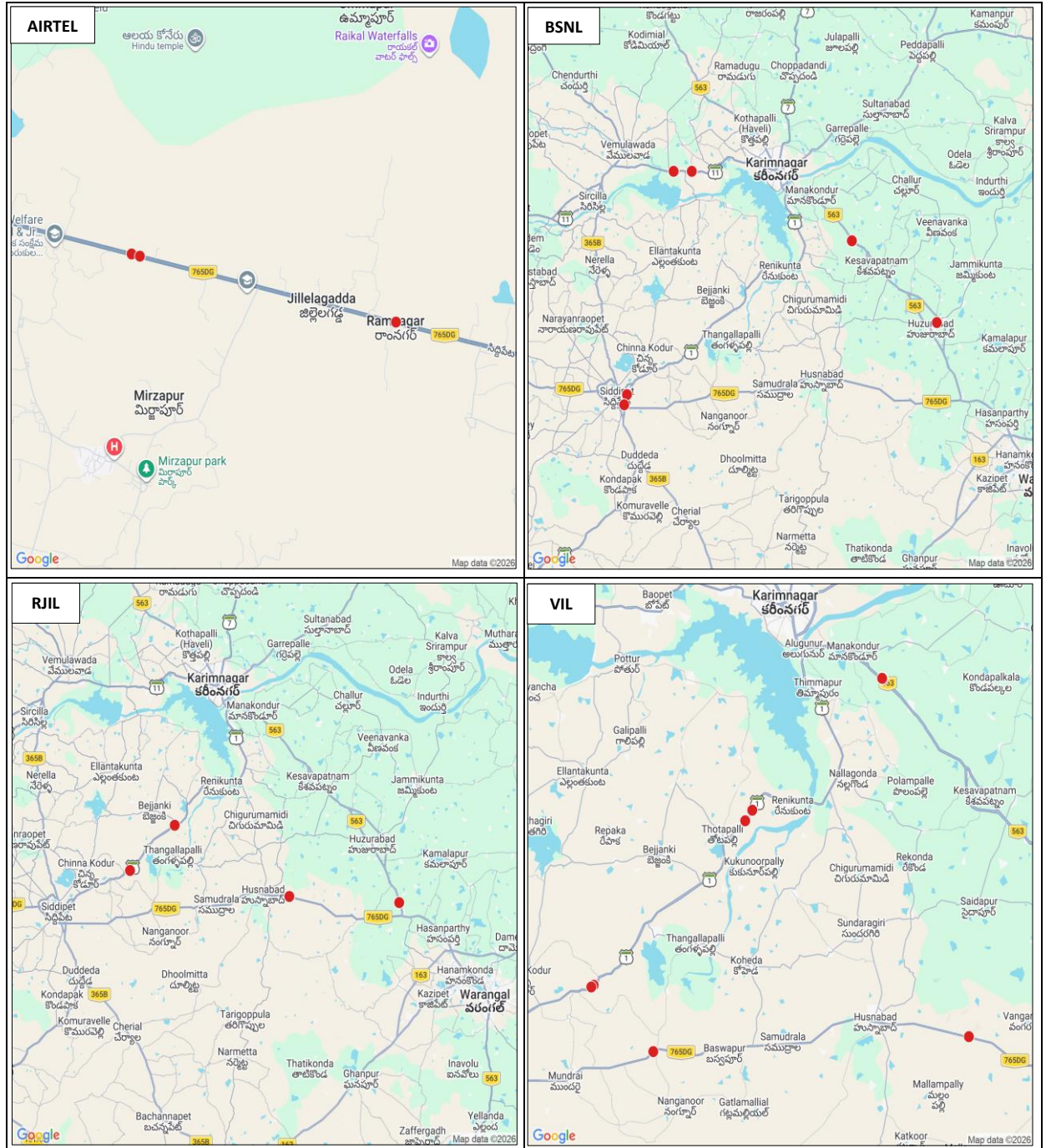


**Note:** Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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)	84	75	83	83
Number of silences calls for >3 Sec	2	4	4	5
Total number of silence instances for >3 Sec	3	6	4	8

**Locations of Call Silence Instance**

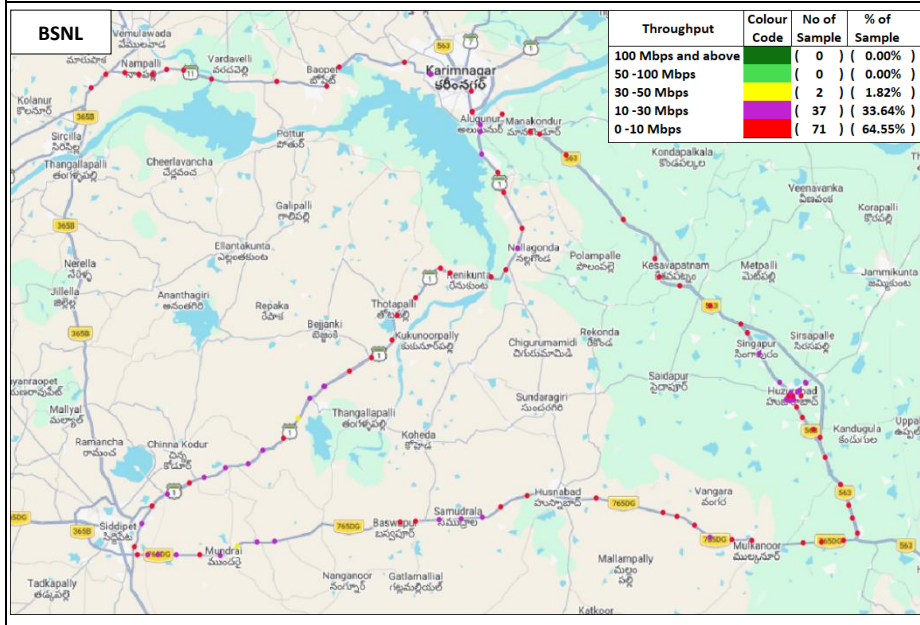
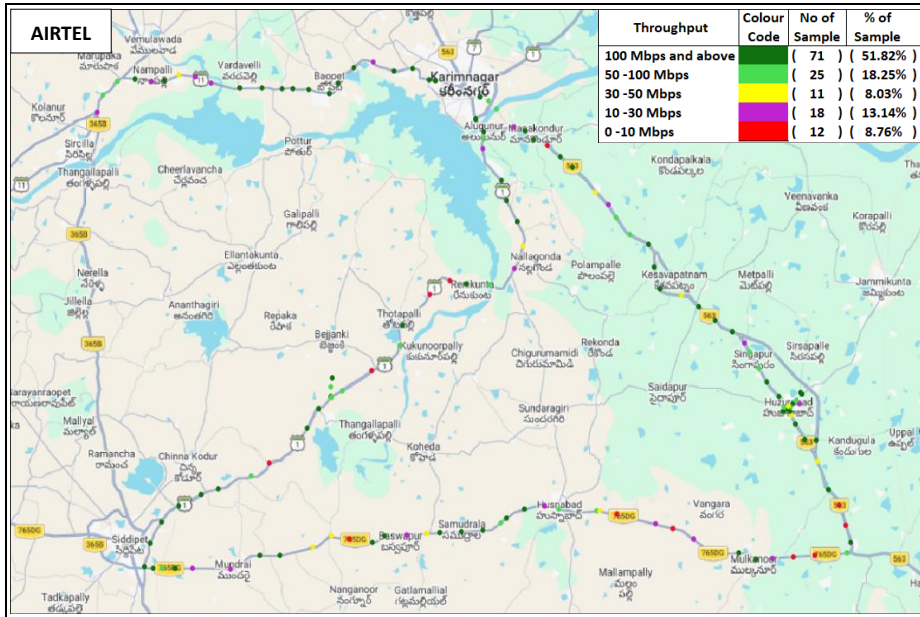


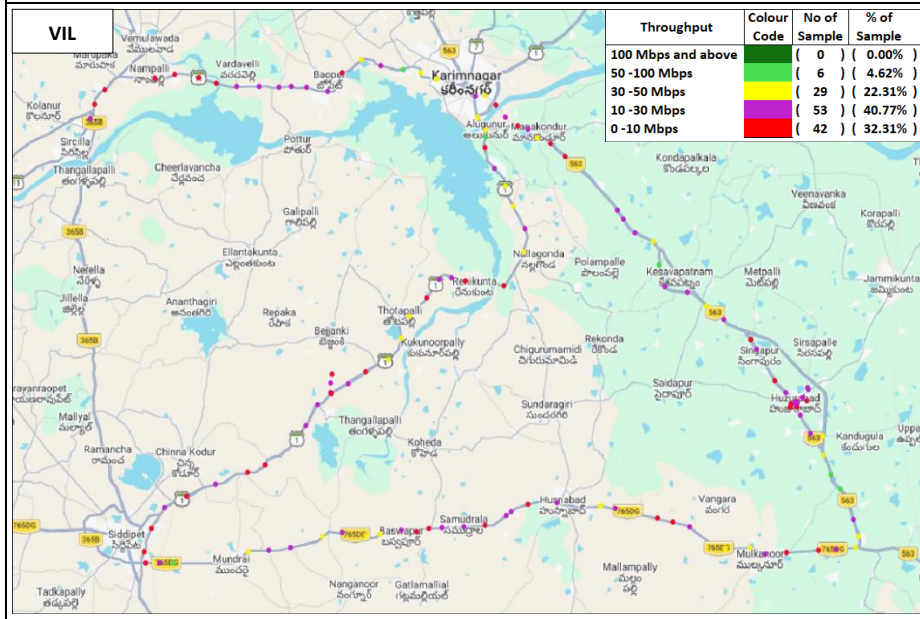
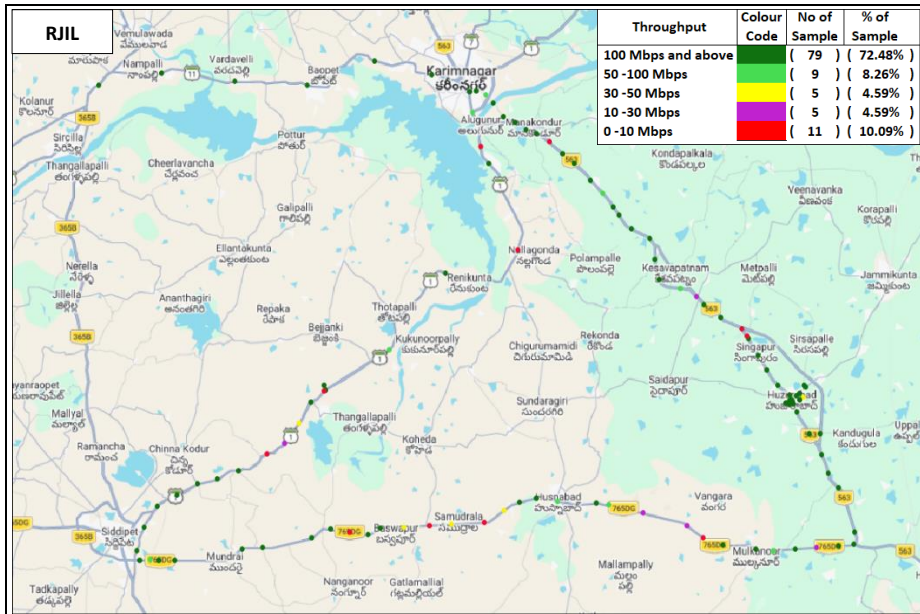
**Note:** Call silence instances are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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)	16.91	3.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	143.64	8.31	255.87	20.59

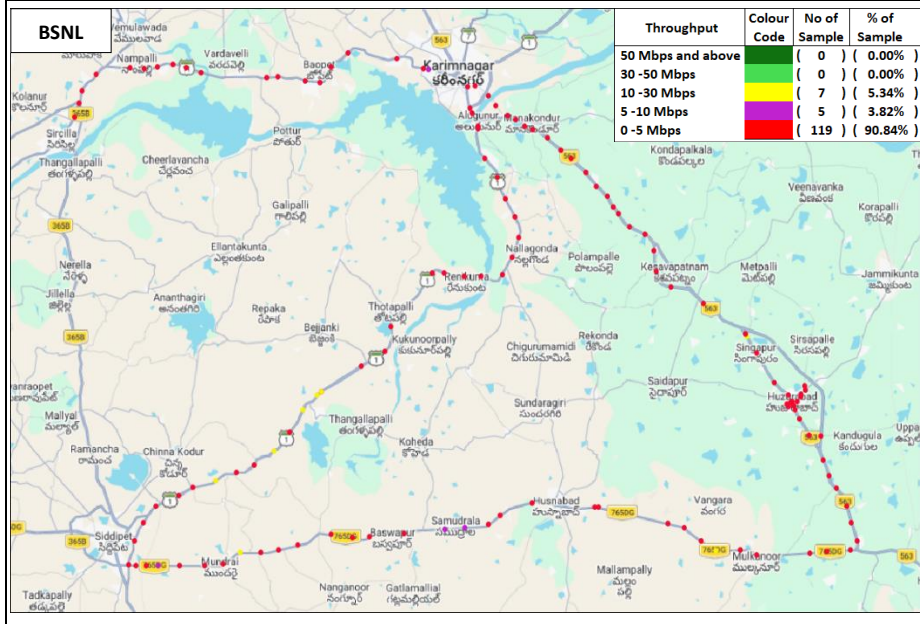
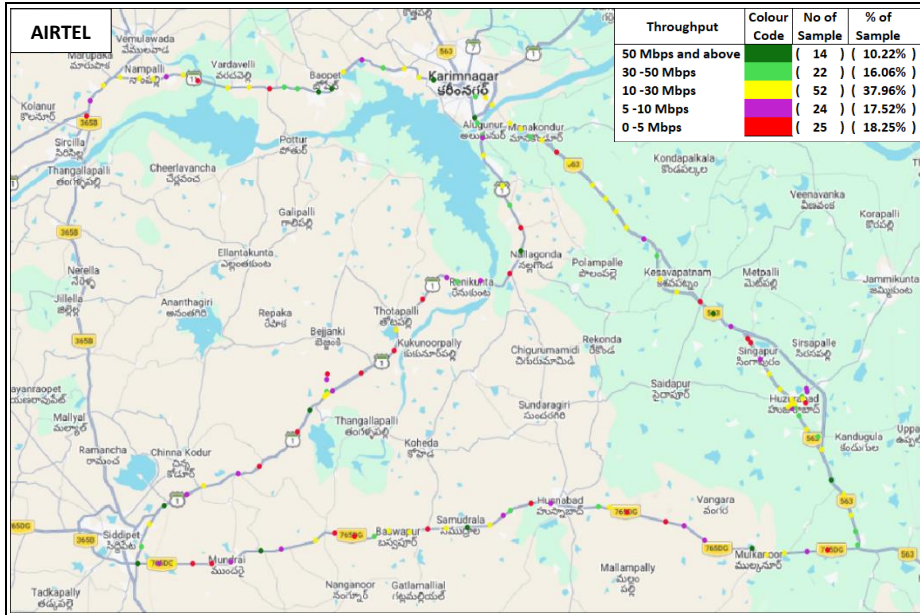


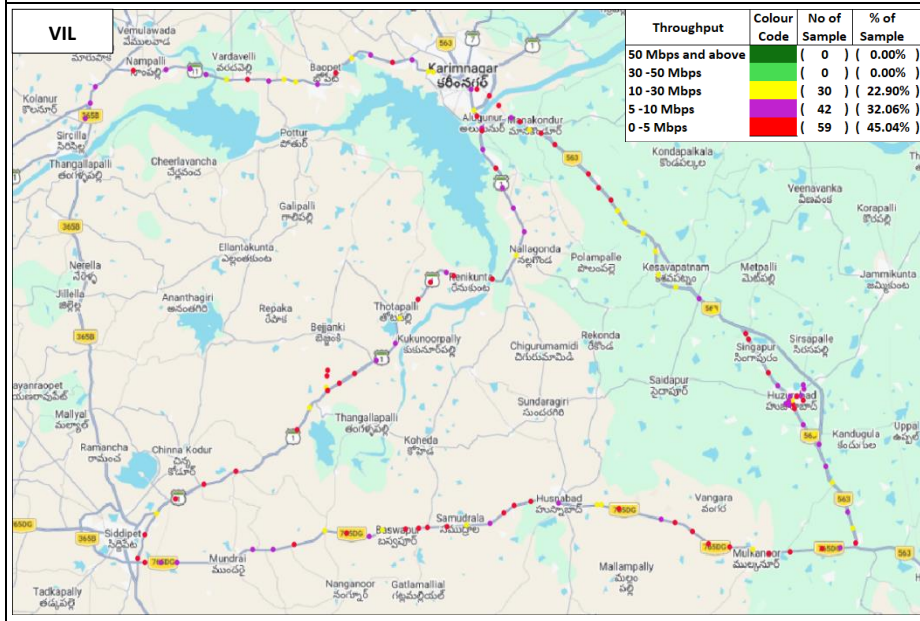
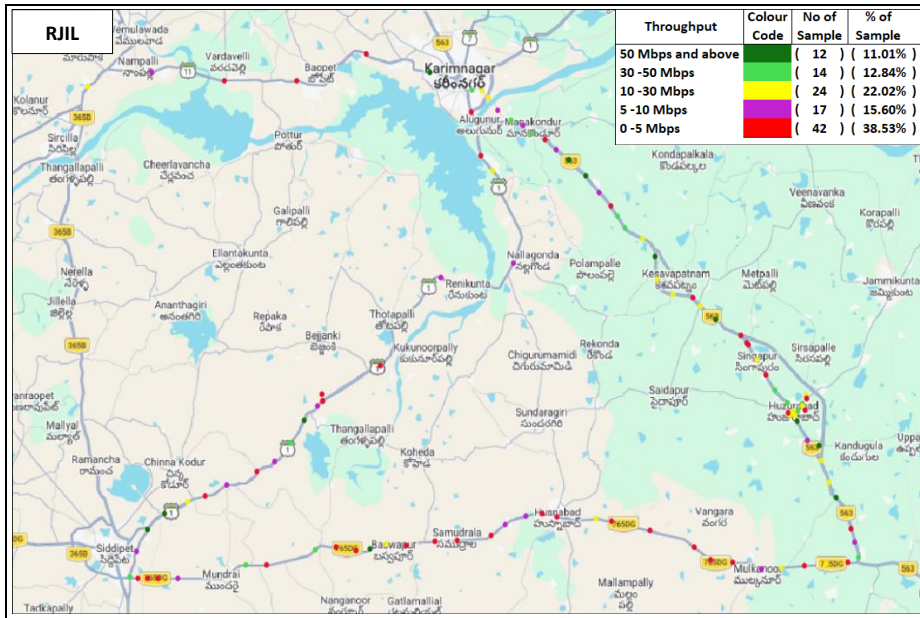


**Note:** Plot is based on Dynamic Drive Test results only.

**(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)	4.98	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	22.26	2.37	18.39	6.79





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