

Information Note to the Press (Press Release No. 123 / 2026)

TELECOM REGULATORY AUTHORITY OF INDIA

www.trai.gov.in

New Delhi, 28 Sep 2026

For Immediate Release

TRAI Assesses Mobile Network Quality along the Delhi to Agra via Yamuna Expressway passing through Dankaur, Jewar, Tappal, Surir, Javara, Baldeo, Khandauli, Kuberpur etc. and Agra to Delhi passing through Raja Ki Mandi Jn, Mathura Jn, Chata, Kosi Kalan, Palwal, Ballabgarh, Faridabad etc. under Delhi LSA.

The Telecom Regulatory Authority of India (TRAI) has released findings of Independent Drive Test (IDT) conducted along the Delhi-Agra Highway route and Agra-Delhi Railway route under Delhi LSA, during the month of Jul 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 analyzed in real-time using advanced Software Systems.

3. TRAI, through its appointed agency, conducted drive tests across Highway drive – 183.4 Km, Hotspot location – 01 and Railway Drive – 188 Km during 16th Jul 2026 to 17th Jul 2026 in Delhi LSA. These tests were conducted under the supervision of the TRAI Regional Office Delhi. 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 routes:** The map provides overview of drive test routes indicating, hotspot test, highway and railway drive route as per the legends shown on the map.

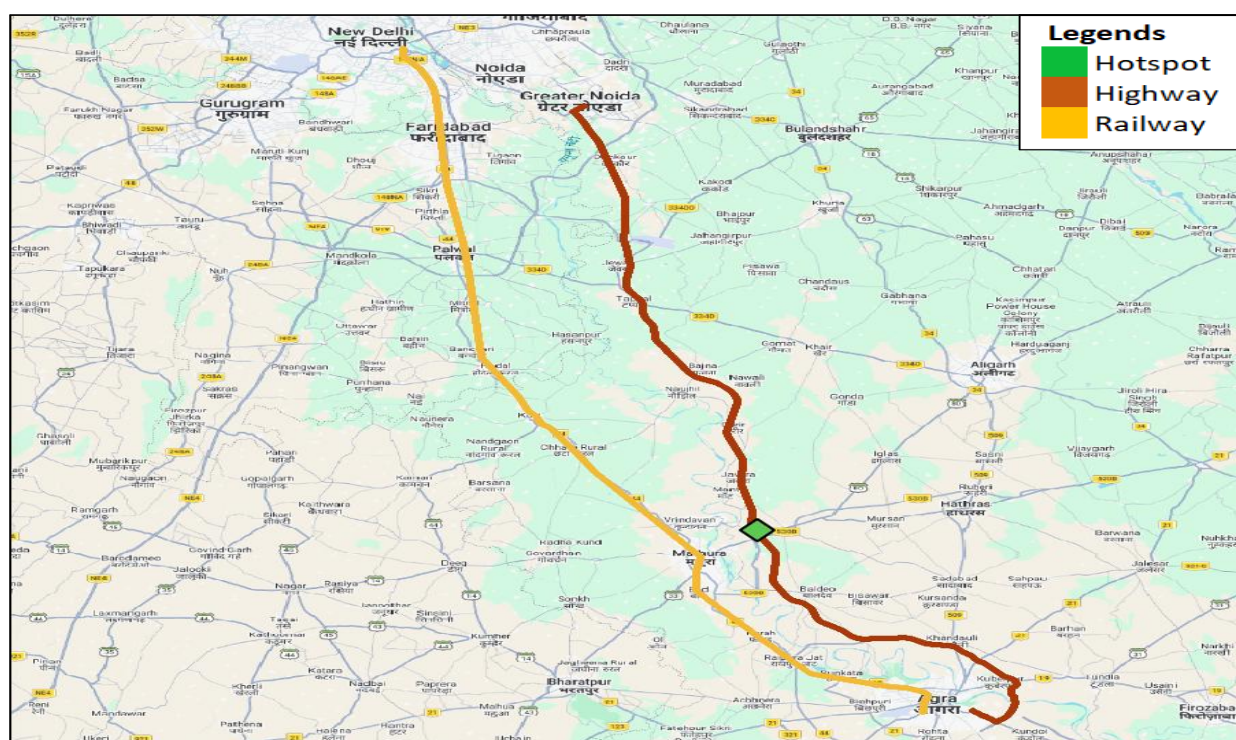


Figure-1: Drive test routes

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 instances occurred during the calls.

(d) **Data Services:** Download / Upload Throughput, Latency, Jitter, Packet Drop Rate.

6. The overall mobile network performance on Delhi to Agra via Yamuna Expressway Highway route (Delhi LSA) for the key parameters has been summarized 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, was 180/13960 for Airtel, 4876/12619 for BSNL, 145/13268 for RJIL and 44/13327 for VIL. Details of the coverage gaps have been provided in the map of Annexure-I.

- b) **Dropped Calls** - Dropped calls in auto-selection mode (5G/ 4G/ 3G/ 2G), measured as the number of dropped calls out of the number of successfully established calls, were 2/65 for Airtel, 16/68 for BSNL, 1/66 for RJIL and 0/66 for VIL. Details of the dropped call locations have been provided in the map of Annexure-I.
- c) **Call Silence Instance** - Call silence instances in Auto-selection mode (5G/4G), measured as the total number of silence instances observed for > 3 seconds out of the total calls established, were 16/63 for Airtel, 2/57 for BSNL, 0/68 for RJIL and 18/68 for VIL. Details of the call silence instance locations have been provided in the map of Annexure-I.
- d) **Data Download and Upload Throughput:**
 - i) **Data Download performance (Overall):** Average download speed was observed as 135.33 Mbps for Airtel (5G), 8.10 Mbps for BSNL (4G), 213.68 Mbps for RJIL (5G) and 46.48 Mbps for VIL (5G). Detail of Download throughput has been provided in the map of Annexure-I.
 - ii) **Data Upload performance (Overall):** Average upload speed was observed as 17.62 Mbps for Airtel (5G), 3.38 Mbps for BSNL (4G), 20.62 Mbps for RJIL (5G) and 13.70 Mbps for VIL (5G). Details of Upload throughput have been provided in the map of Annexure-I.

Locations of Dropped Calls and Call Silence instances can be seen by clicking red dot on the map of **Annexure-I**.

7. The overall mobile network performance on Agra to Delhi Railway route (Delhi LSA) for the key parameters has been summarized 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, was 326/11709 for Airtel, 5264/10895 for BSNL, 286/11697 for RJIL and 224/11728 for VIL. Details of the coverage gaps have been provided in the map of Annexure-II.
- b) **Dropped Calls** - Dropped calls in auto-selection mode (5G/ 4G/ 3G/ 2G), measured as the number of dropped calls out of the number of successfully established calls, were 0/60 for Airtel, 12/60 for BSNL, 3/63 for RJIL and 2/62 for VIL. Details of the dropped call locations have been provided in the map of Annexure-II.
- c) **Data Download and Upload Throughput:**
 - i) **Data Download performance (Overall):** Average download speed was observed as 44.23 Mbps for Airtel (5G), 9.99 Mbps for BSNL (4G), 82.68 Mbps for RJIL (5G) and 47.48 Mbps for VIL (5G). Detail of Download throughput has been provided in the map of Annexure-II.

ii) **Data Upload performance (Overall):** Average upload speed was observed as 13.32 Mbps for Airtel (5G), 5.07 Mbps for BSNL (4G), 10.14 Mbps for RJIL (5G) and 12.31 Mbps for VIL (5G). Details of Upload throughput have been provided in the map of Annexure-II.

Locations of Dropped Calls can be seen by clicking red dot on the map of **Annexure-II**.

8. Details of drive test route and area covered during the IDT are as below: -

- a) **Highway** - The areas covered on the highway drive are Delhi to Agra via Yamuna Expressway passing through Dankaur, Jewar, Tappal, Surir, Javara, Baldeo, Khandauli, Kuberpur etc. under Delhi LSA.
- b) **Hotspot** - The hotspot location, capturing stationary user experience is The Food Street - Food Court - Yamuna Expressway - Vrindavan Cut.
- c) **Railway** - The areas covered on the Railway drive are *Agra to Delhi passing through Raja Ki Mandi Jn, Mathura Jn, Chata, Kosi Kalan, Palwal, Ballabhgarh, Faridabad etc.* under Delhi LSA.

9. 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.ca@trai.gov or Regional Office of TRAI at Delhi RO can be contacted on telephone No. +91-11-20907772.



(Vivek Khare)

Advisor, RO Delhi, TRAI

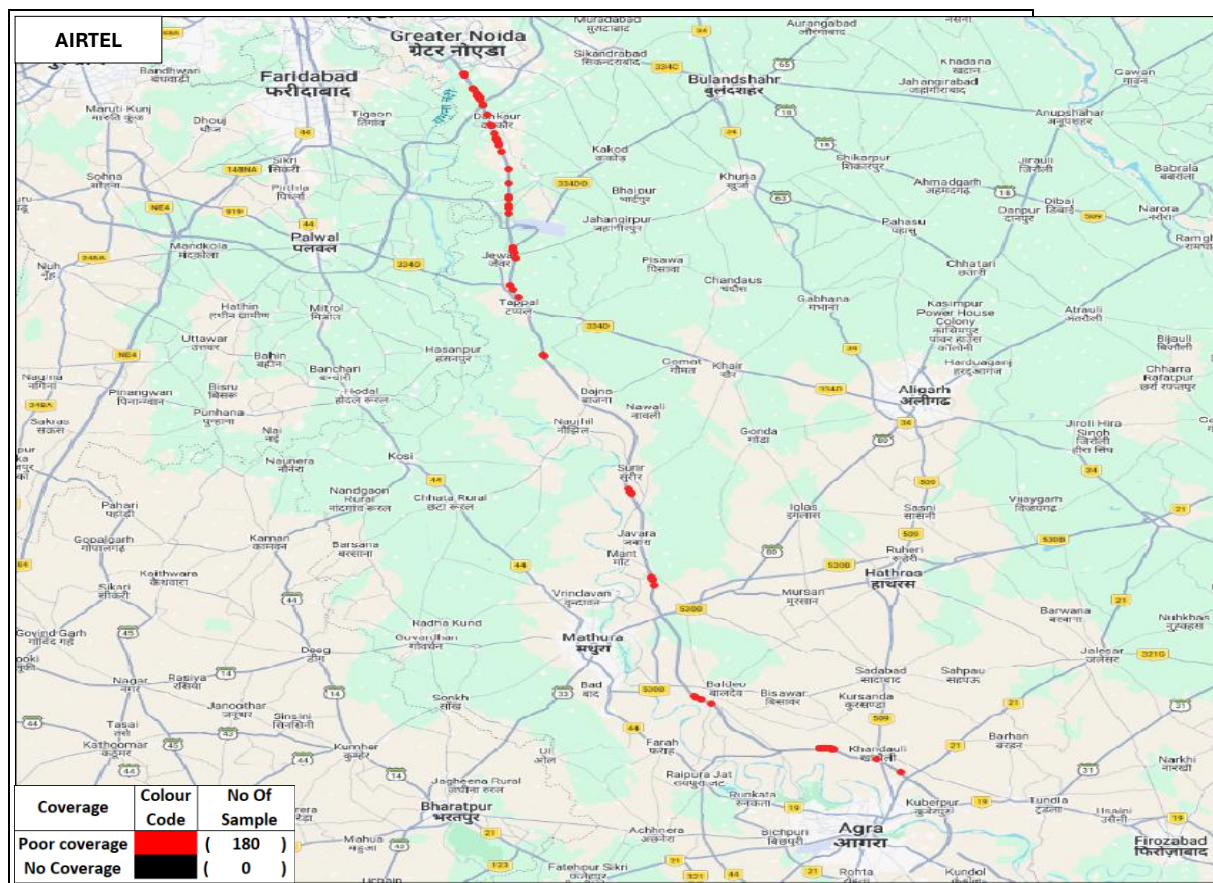
1. Highway Drive: Delhi to Agra via Yamuna Expressway

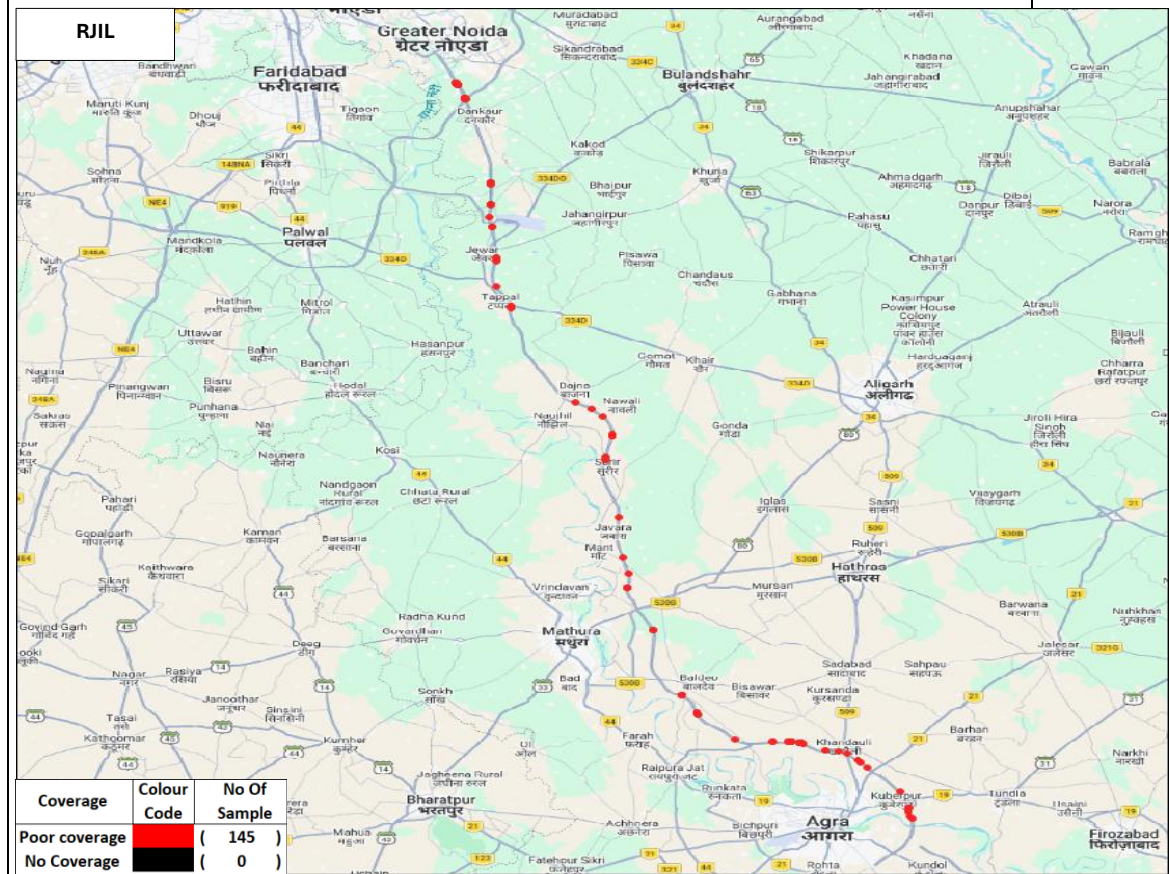
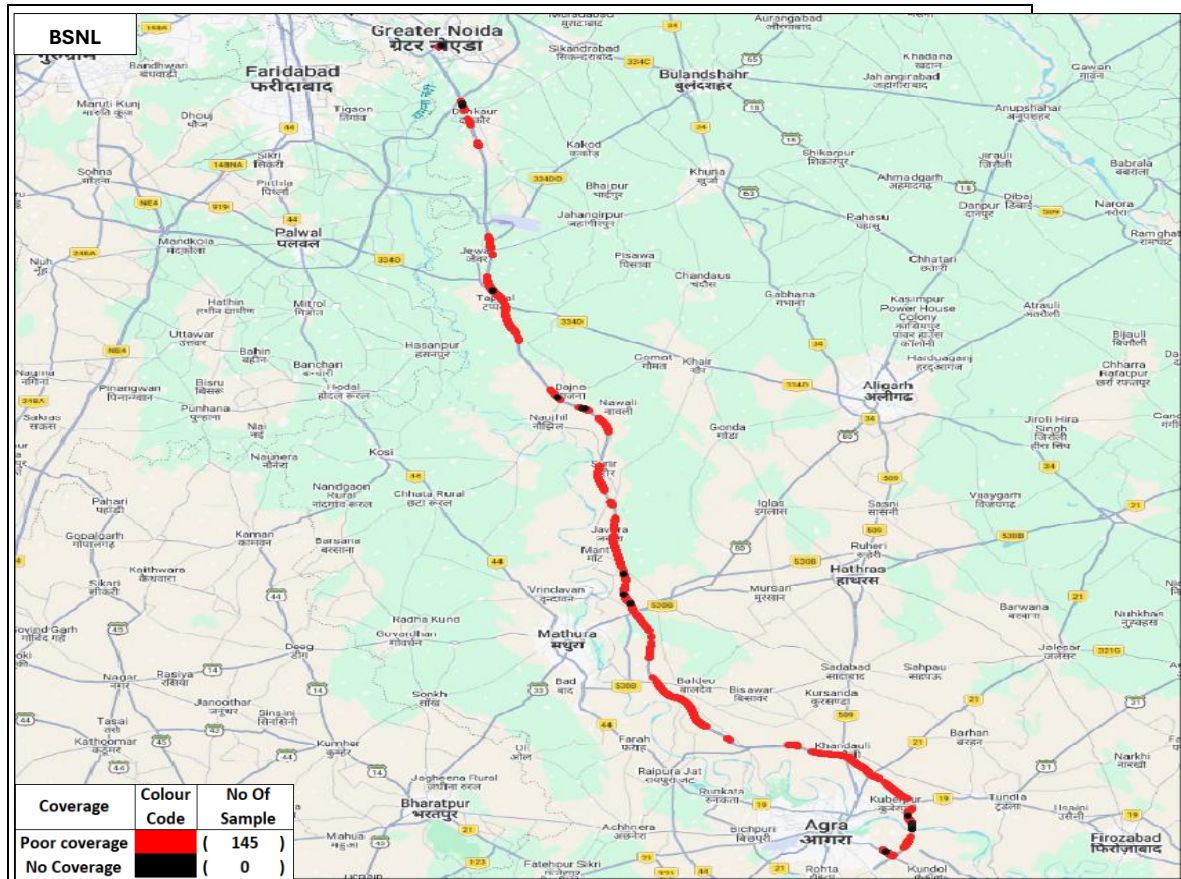
- a) **Coverage Gap** – The coverage distribution found less than the minimum specified signal strength for the drive test route in auto-selection mode (5G/4G/3G/2G) during voice testing, is as below:

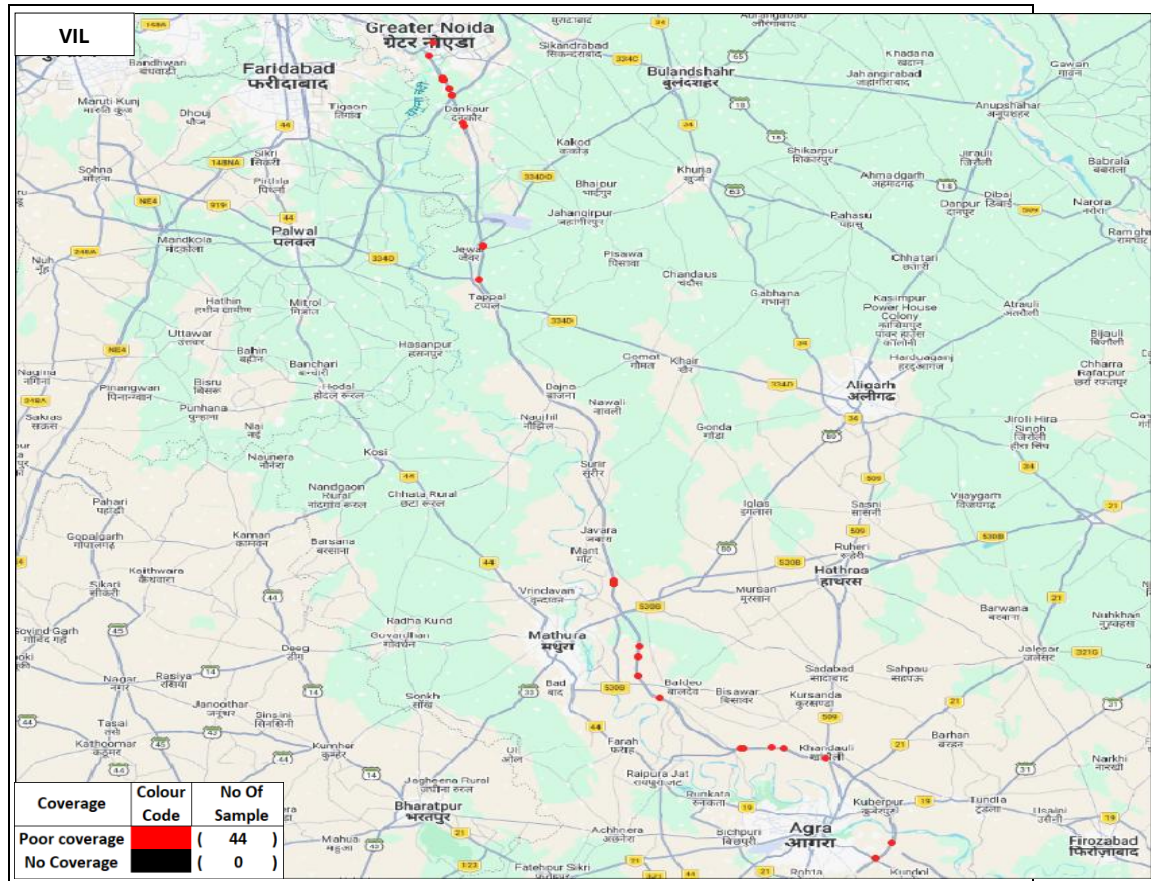
Parameter	AIRTEL	BSNL	RJIL	VIL
Total Number of Samples captured on Drive test route	13960	12619	13268	13327
Number of Samples having poor signal strength	180	4876	145	44
Number of Samples having limited service (No Coverage)	0	206	0	0

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





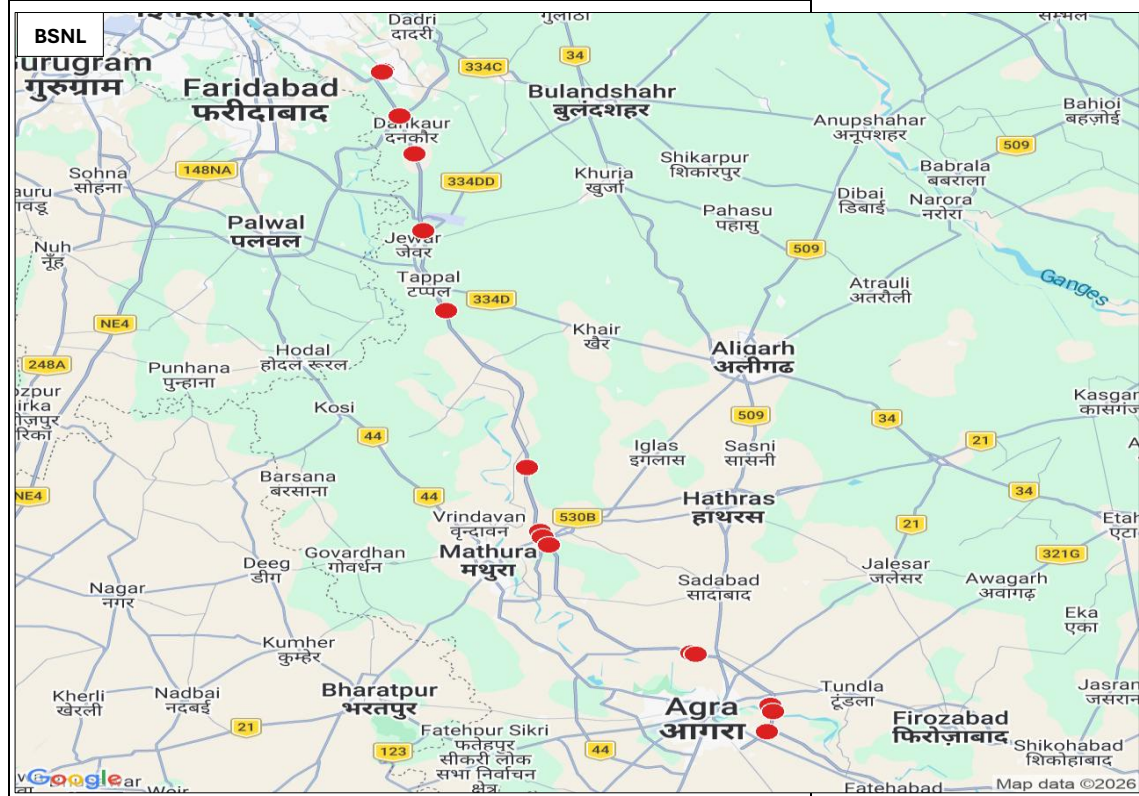
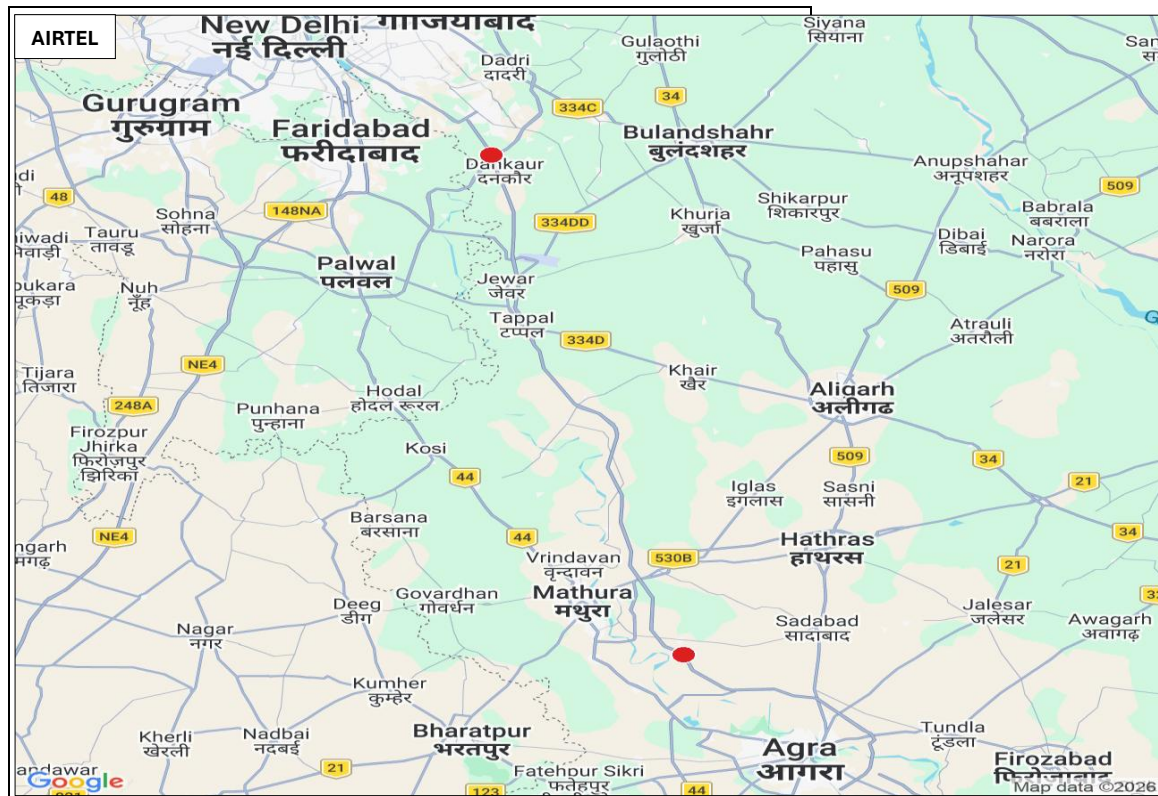


Note: Plot is based on Dynamic Drive Test results only.

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

Parameter	AIRTEL	MTNL	RJIL	VIL
Number of successful Calls Established	65	68	66	66
Number of dropped Calls	2	16	1	0

Locations of Dropped Calls



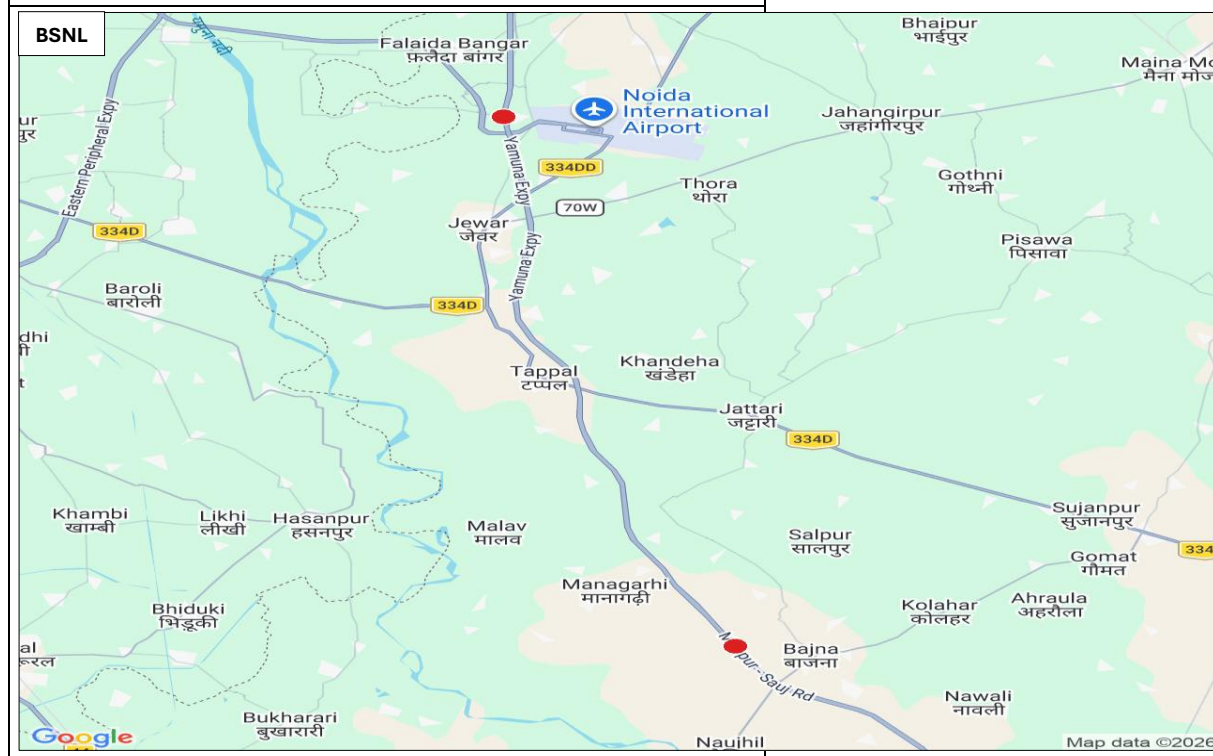
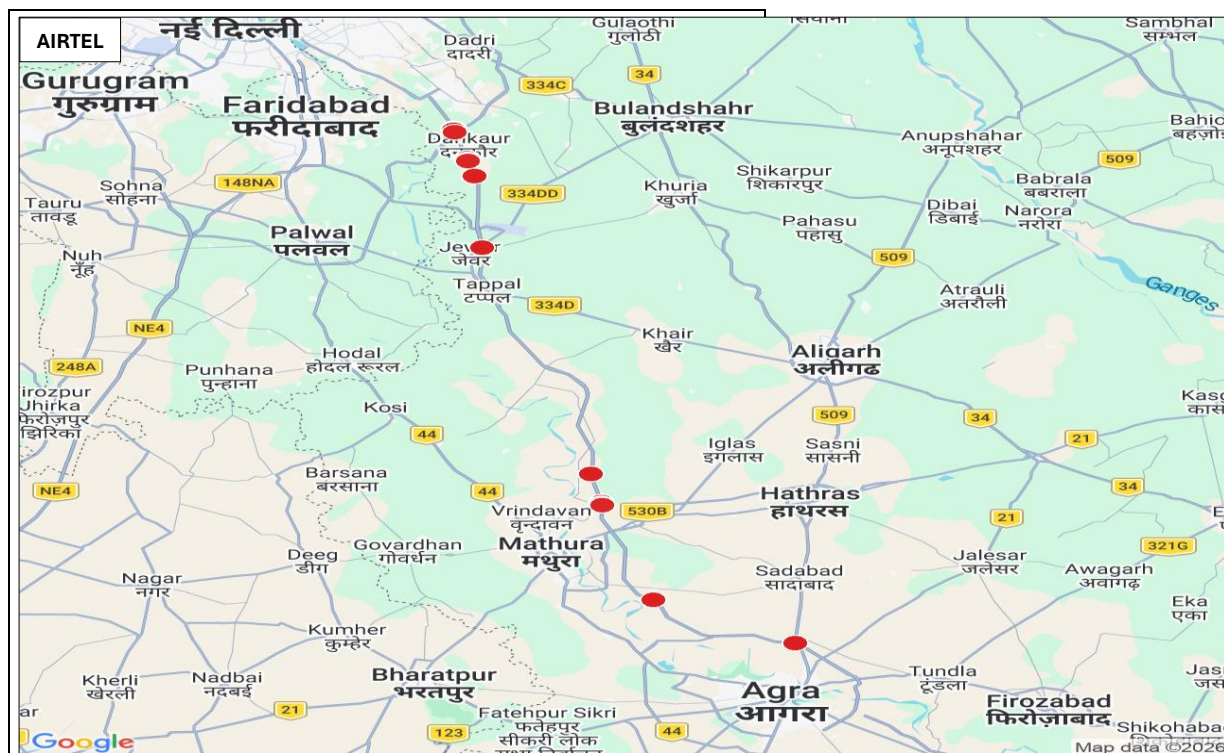


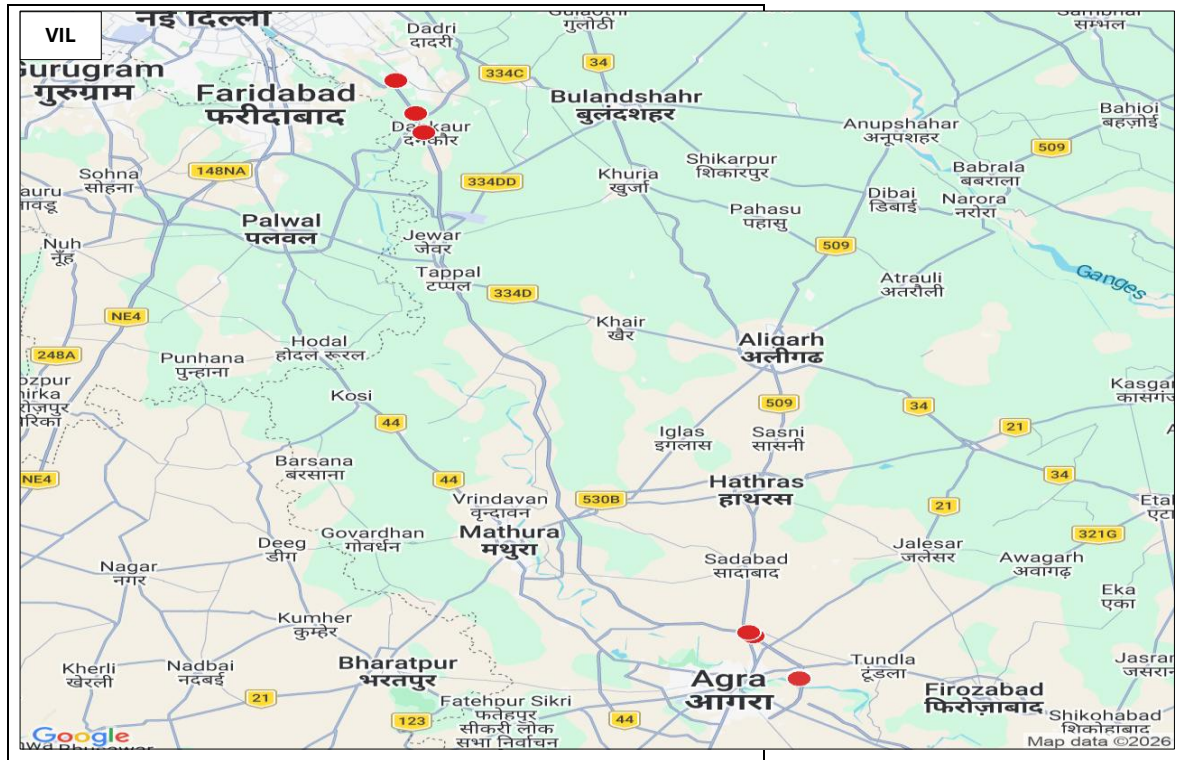
Note: Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

- 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)	63	57	68	68
Number of silences calls for >3 Sec	16	2	0	18
Total number of silence instances for >3 Sec	8	1	0	6

Locations of Call Silence Instance



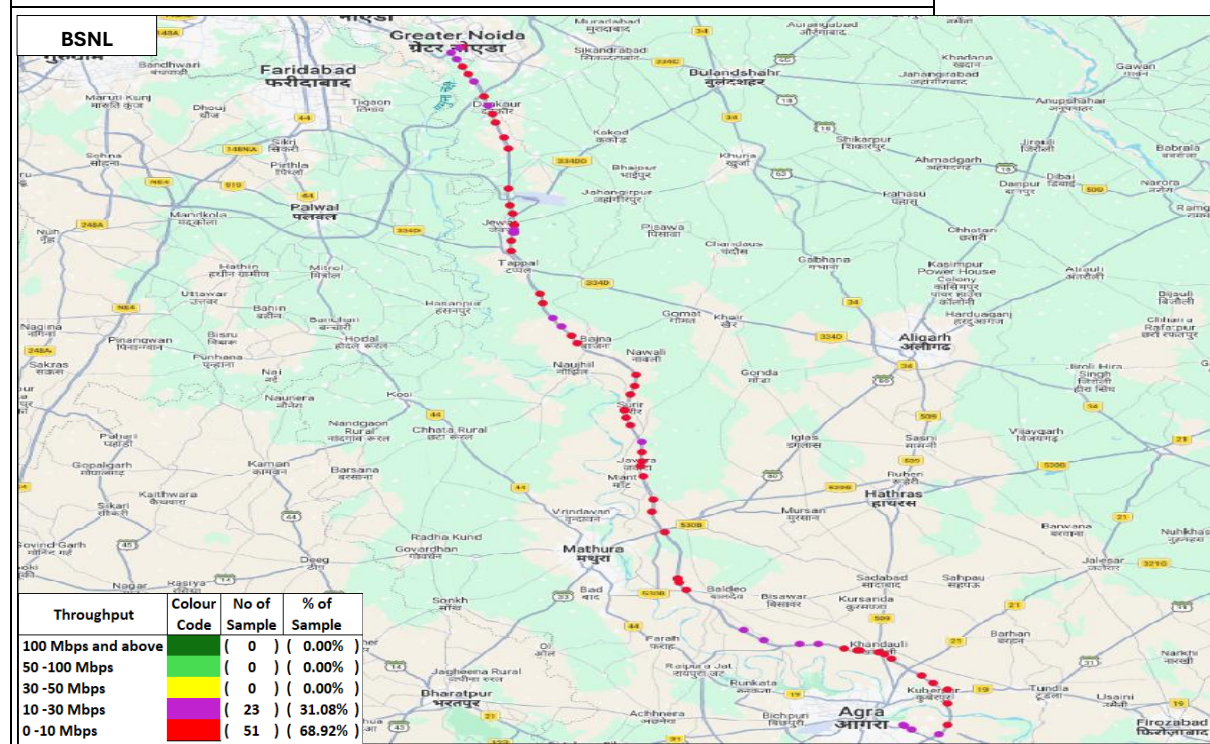
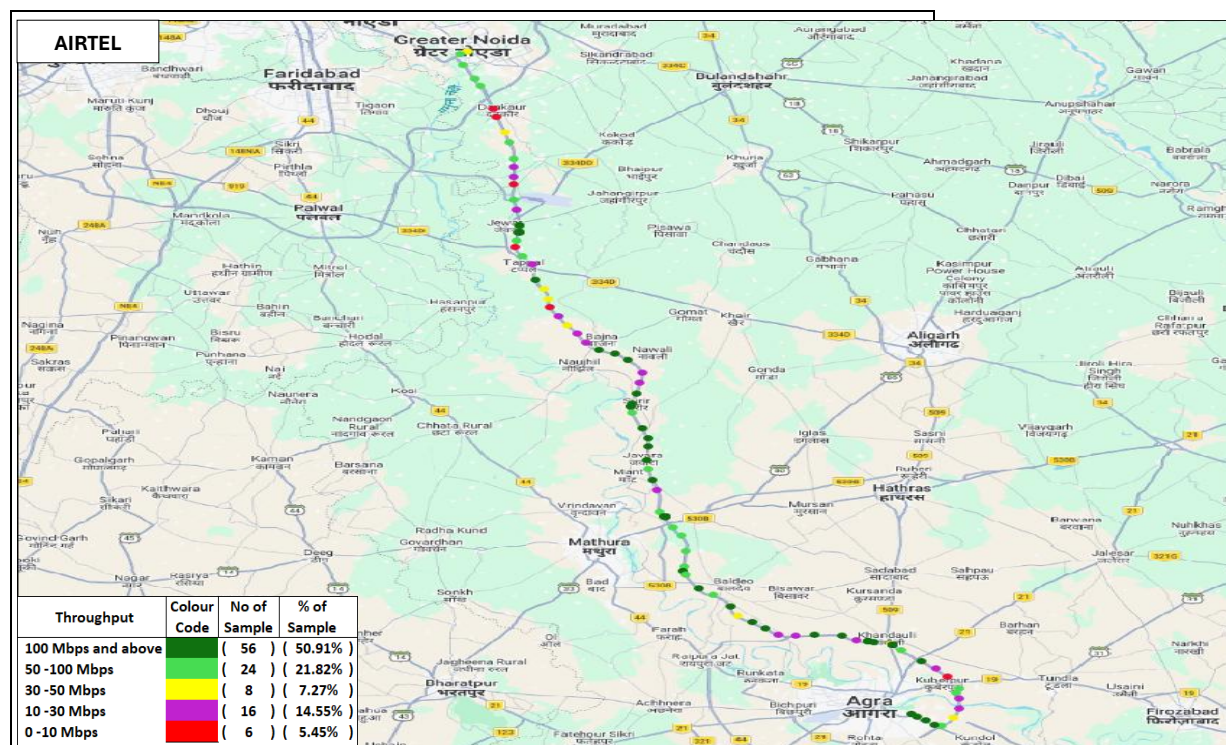


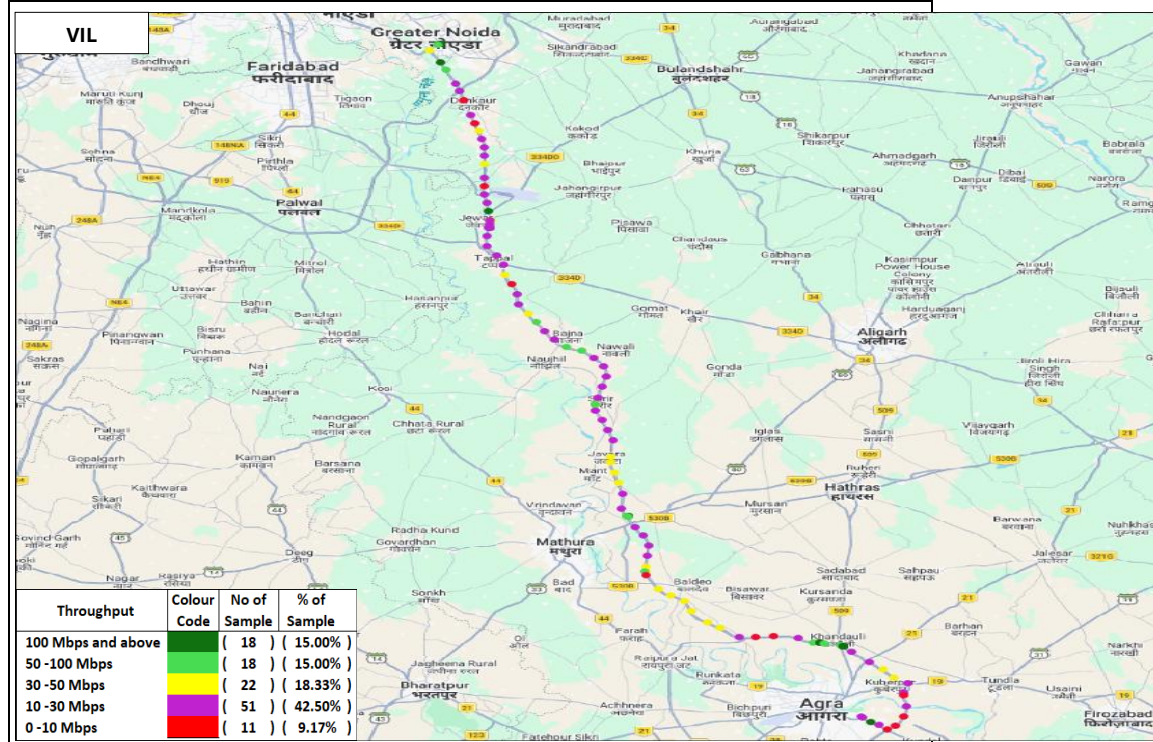
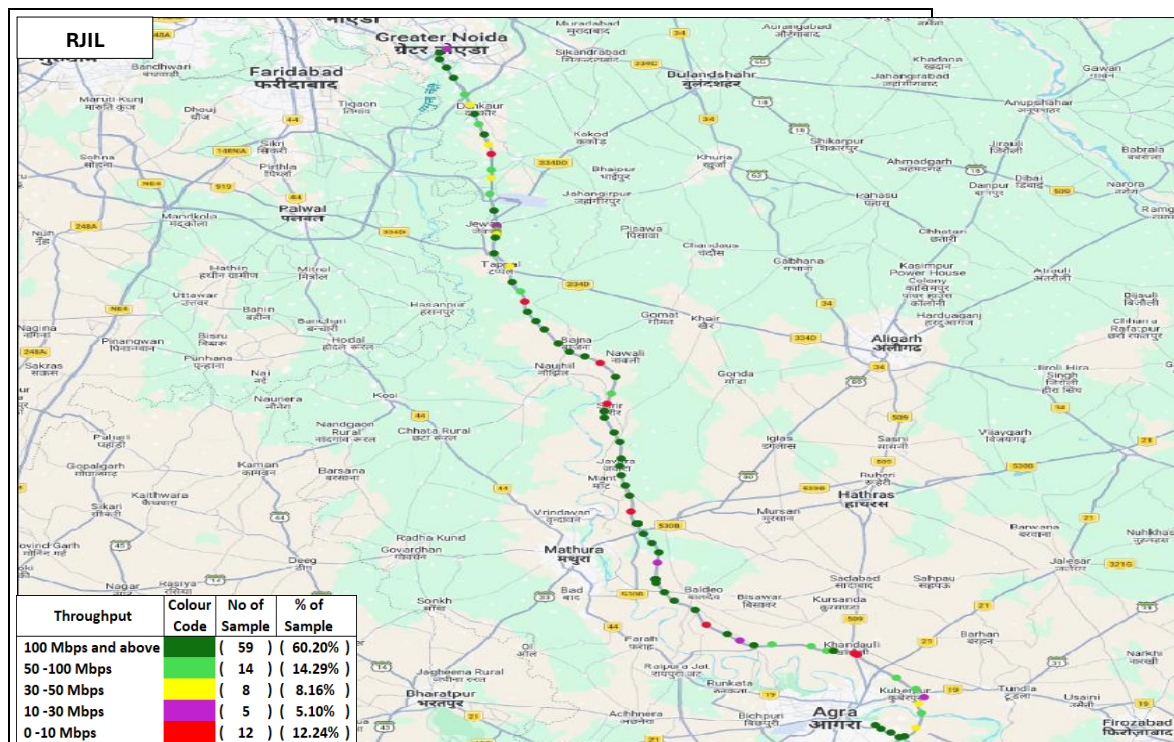
Note: Call silence instances are shown in red colour, and which can be clicked to know the exact location (latitude and longitude) on the map.

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 4G)
Typical Download throughput declared by TSP	(Mbits/s)	18.00	8.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	135.33	8.10	213.68	46.48

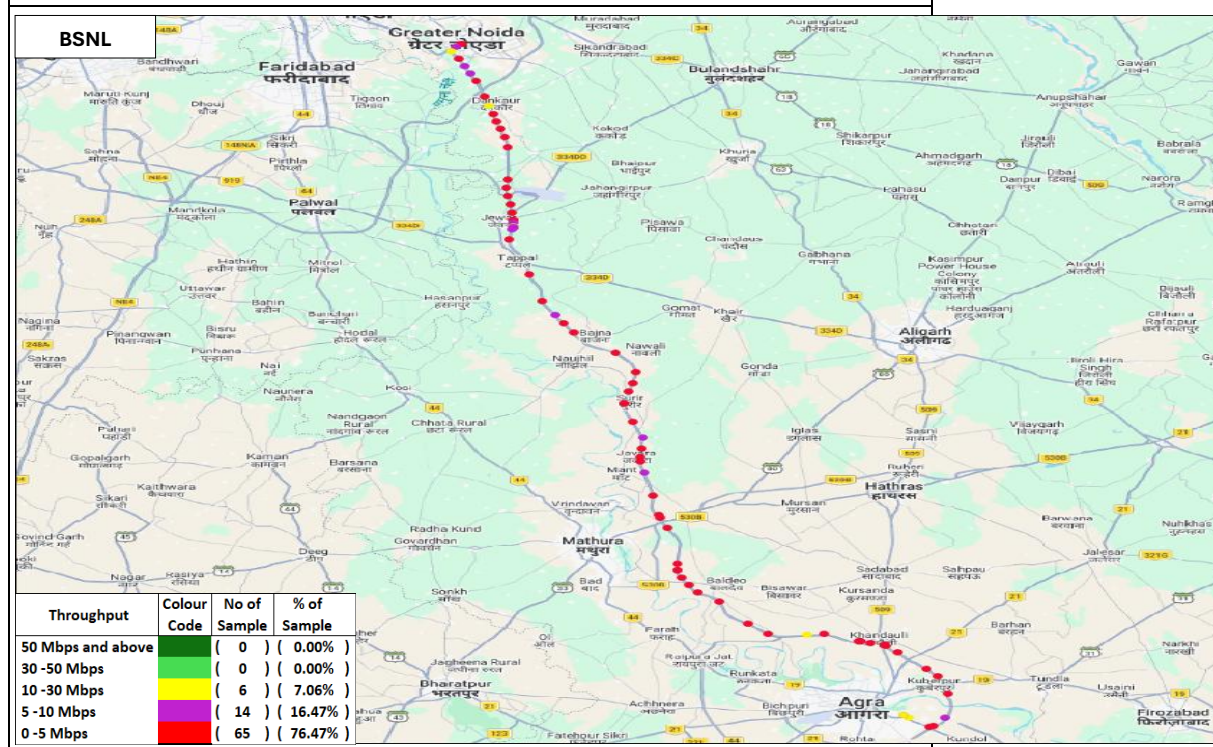
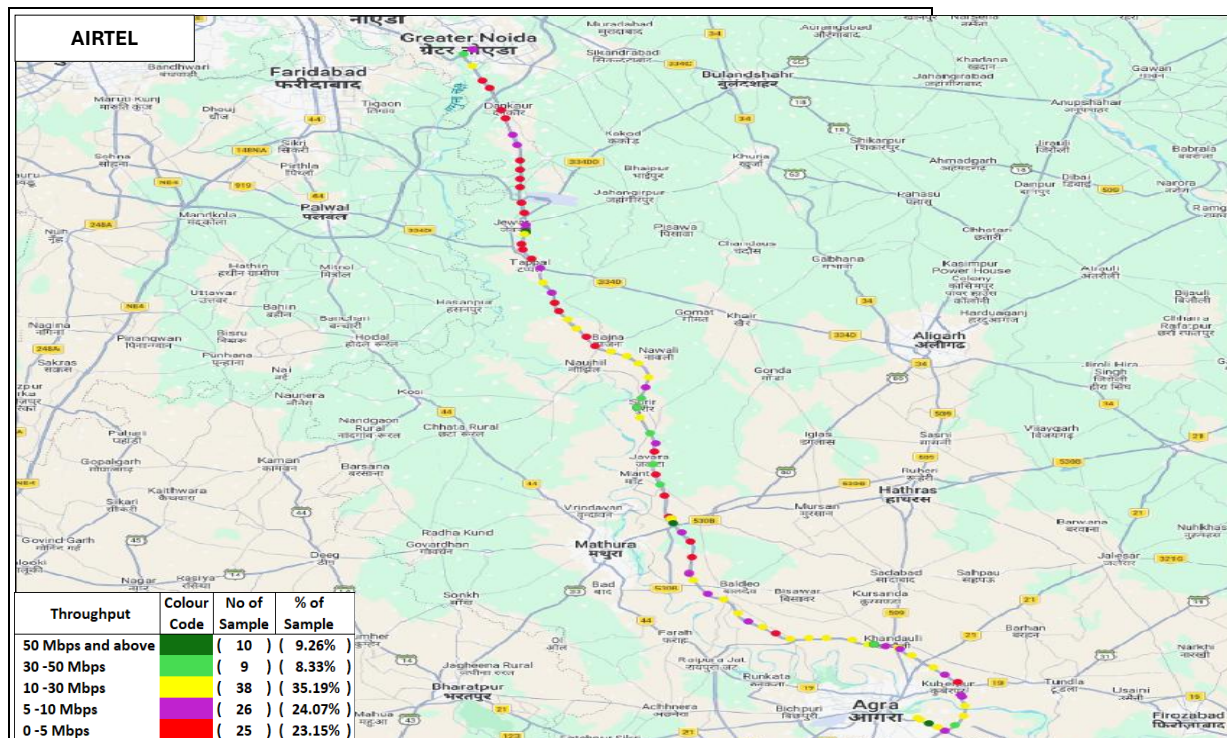


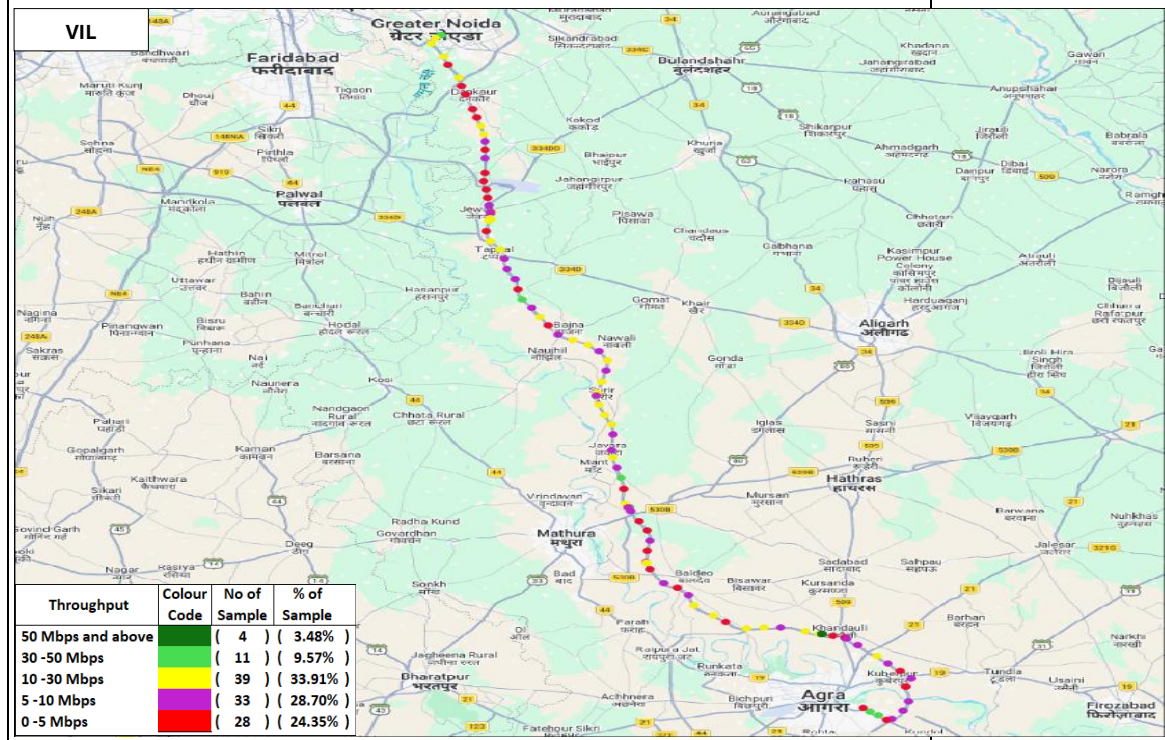
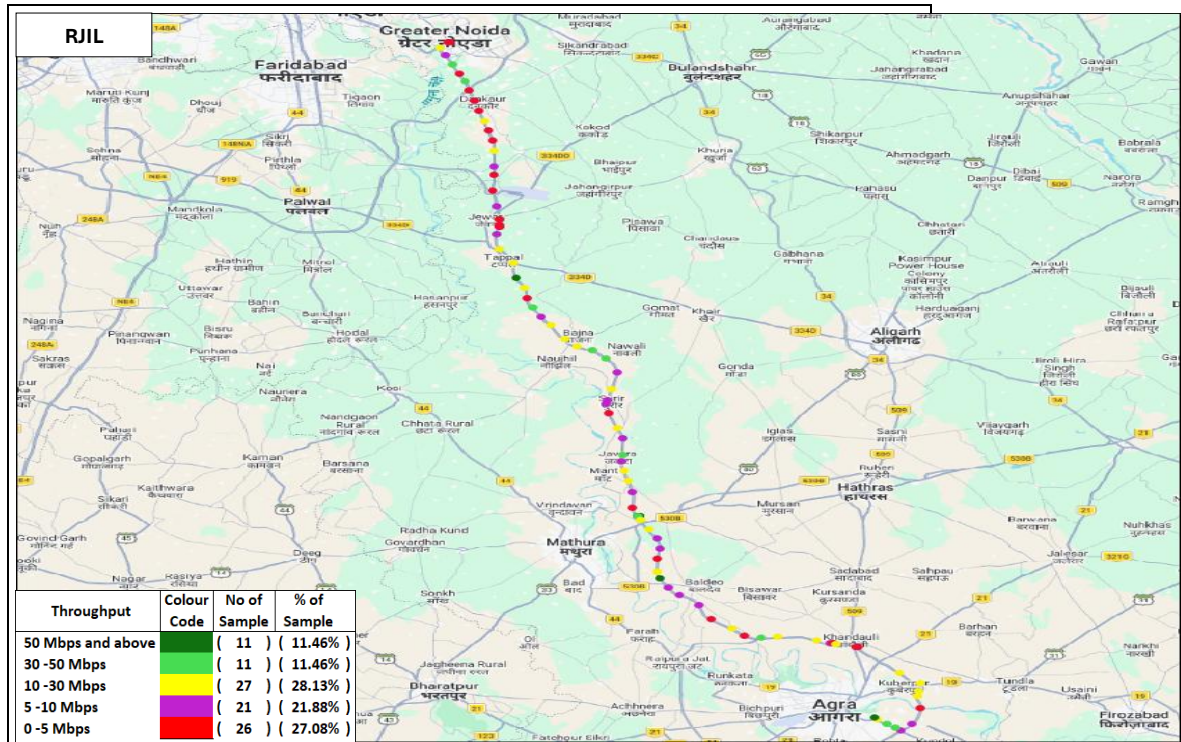


Note: Plot is based on Dynamic Drive Test results only.

(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)	8.00	1.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	17.62	3.38	20.62	13.70





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

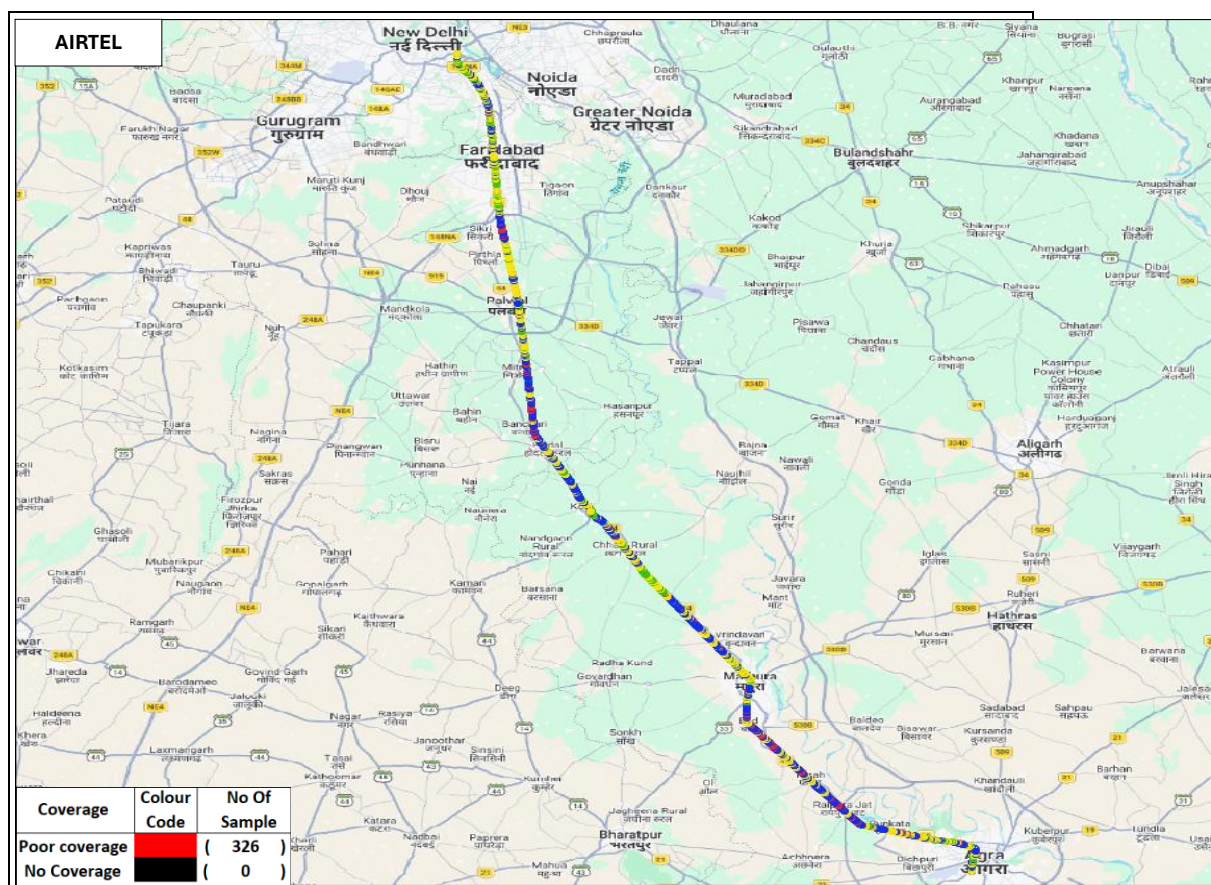
2. Railway Drive: Agra to Delhi

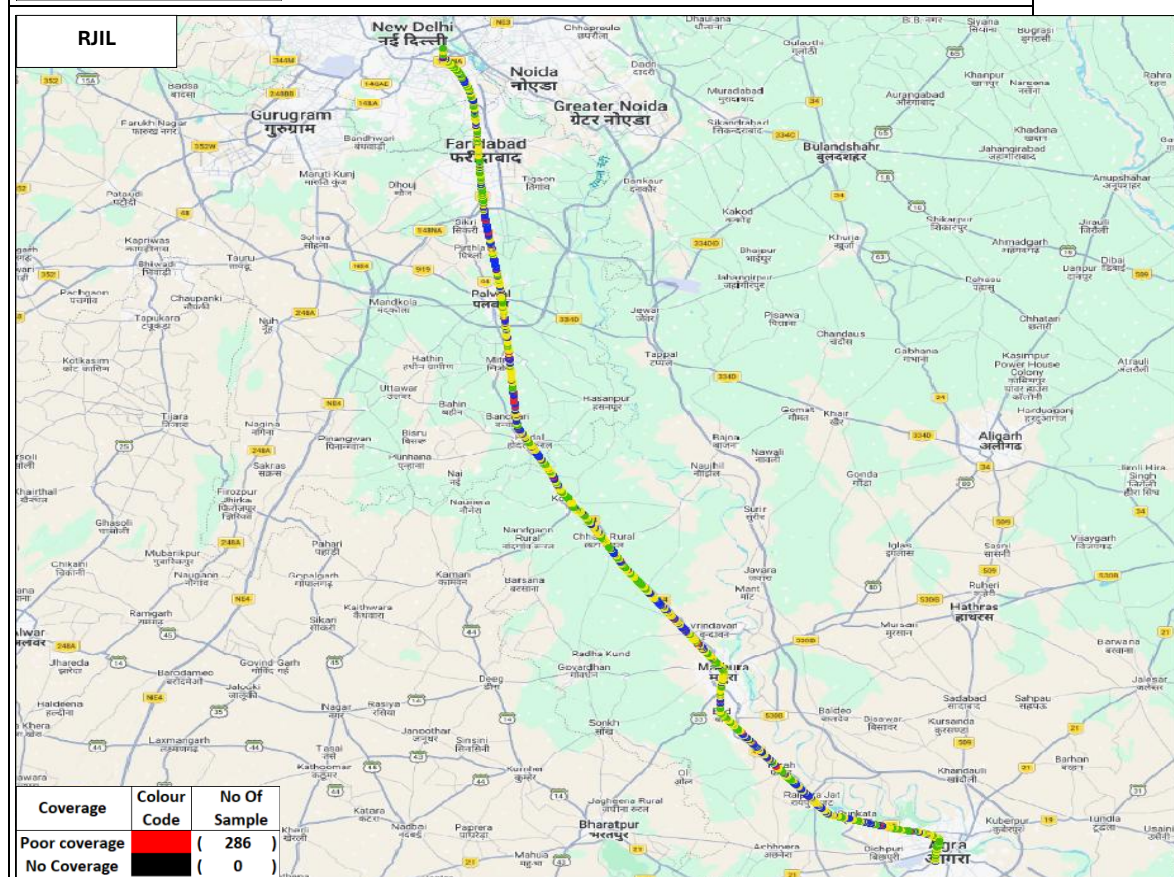
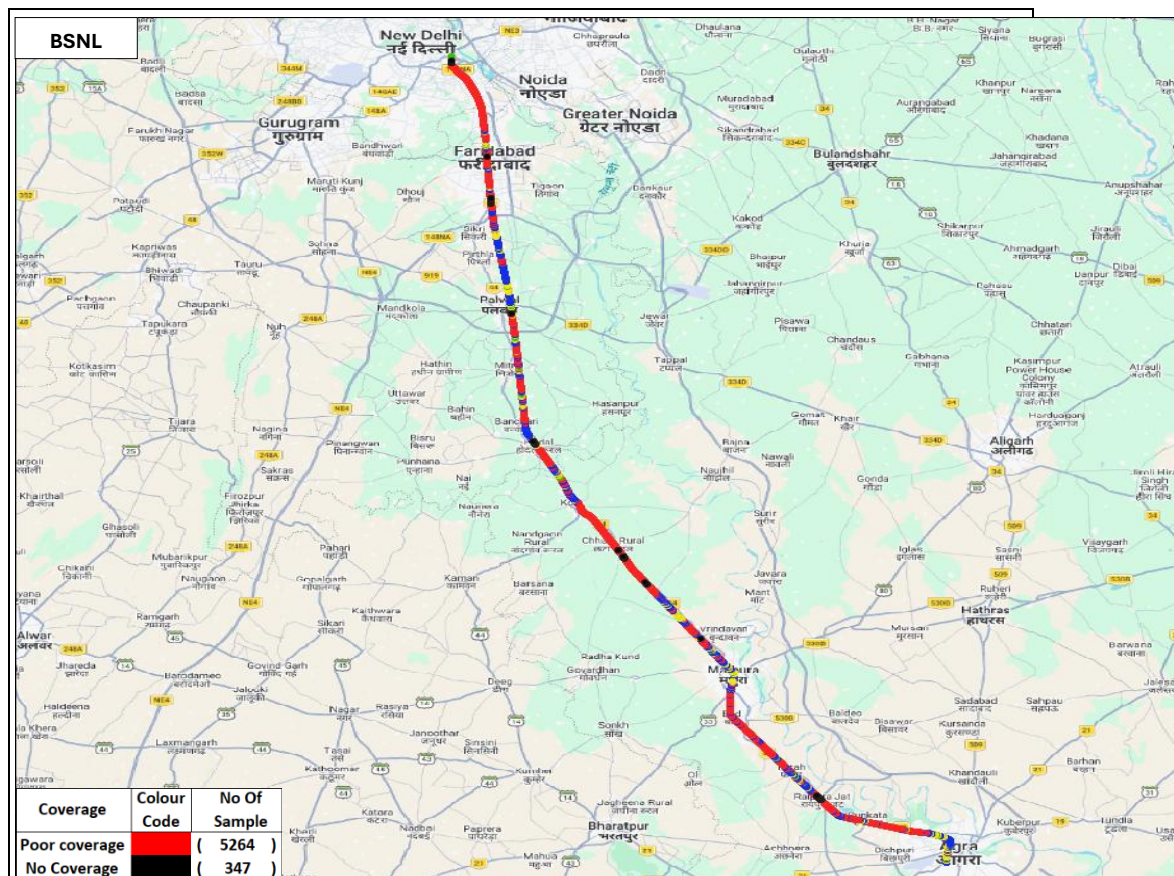
- a) **Coverage Gap** – The coverage distribution found less than the minimum specified signal strength for the drive test route in auto-selection mode (5G/4G/3G/2G) during voice testing is as below:

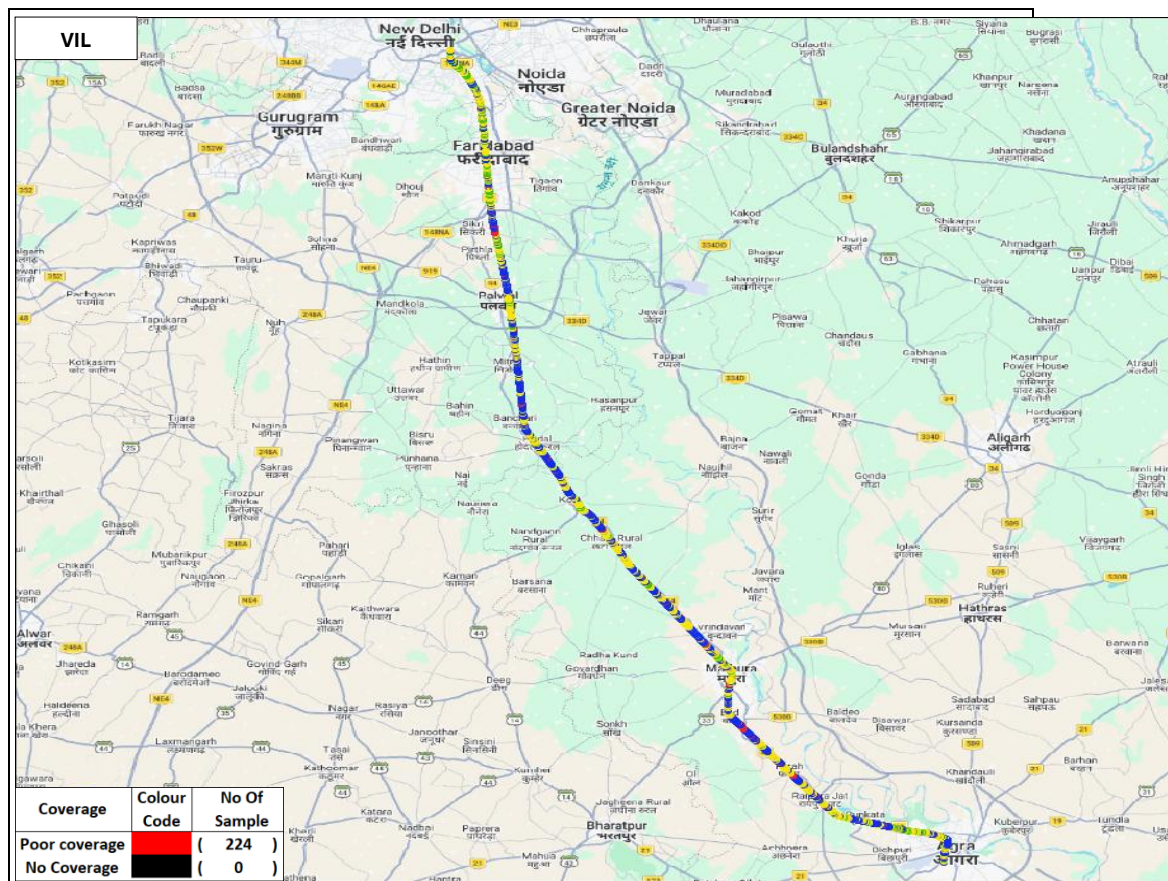
Parameter	AIRTEL	BSNL	RJIL	VIL
Total Number of Samples captured on Drive test route	11709	10895	11697	11728
Number of Samples having poor signal strength	326	5264	286	224
Number of Samples having limited service (No Coverage)	0	347	0	0

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





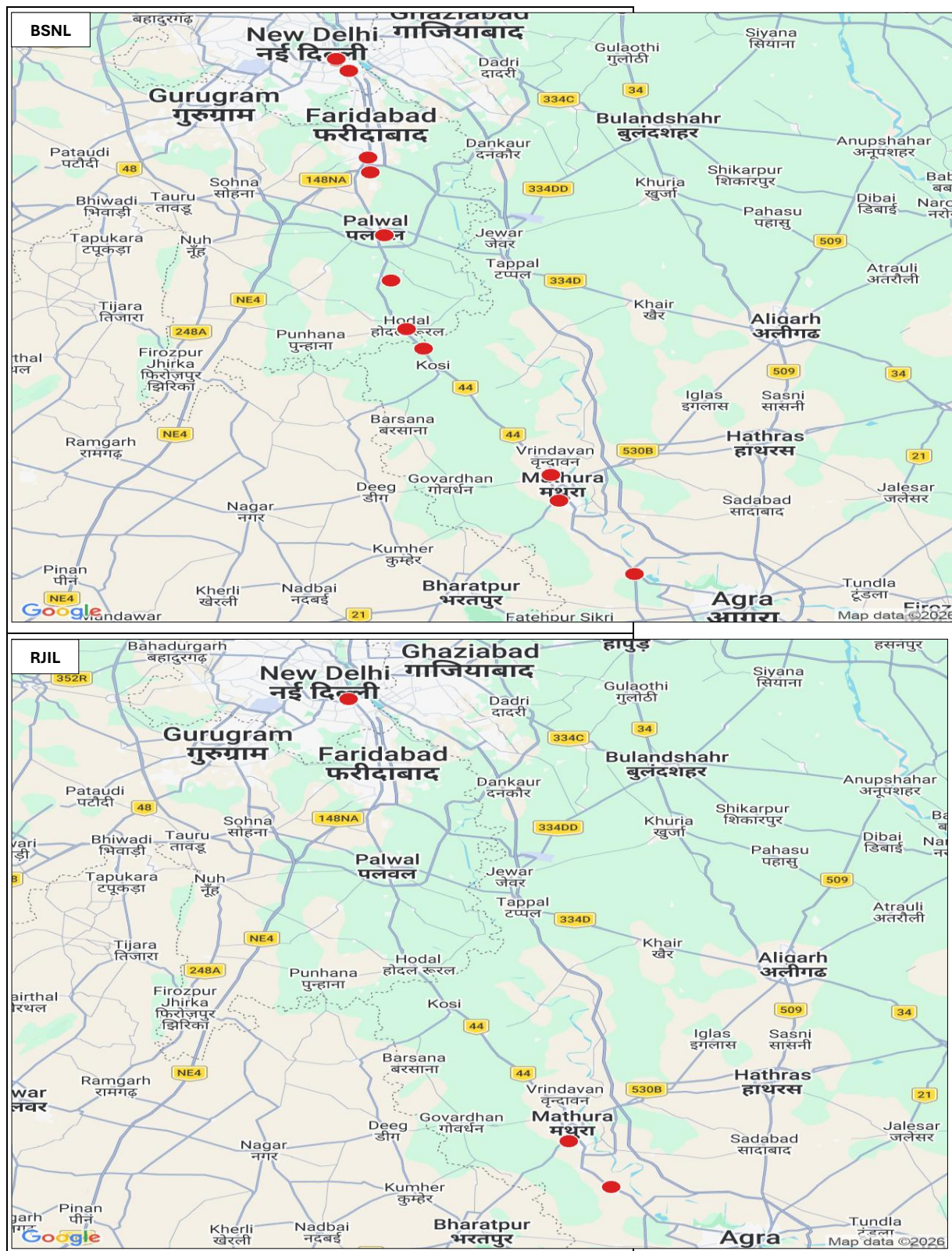


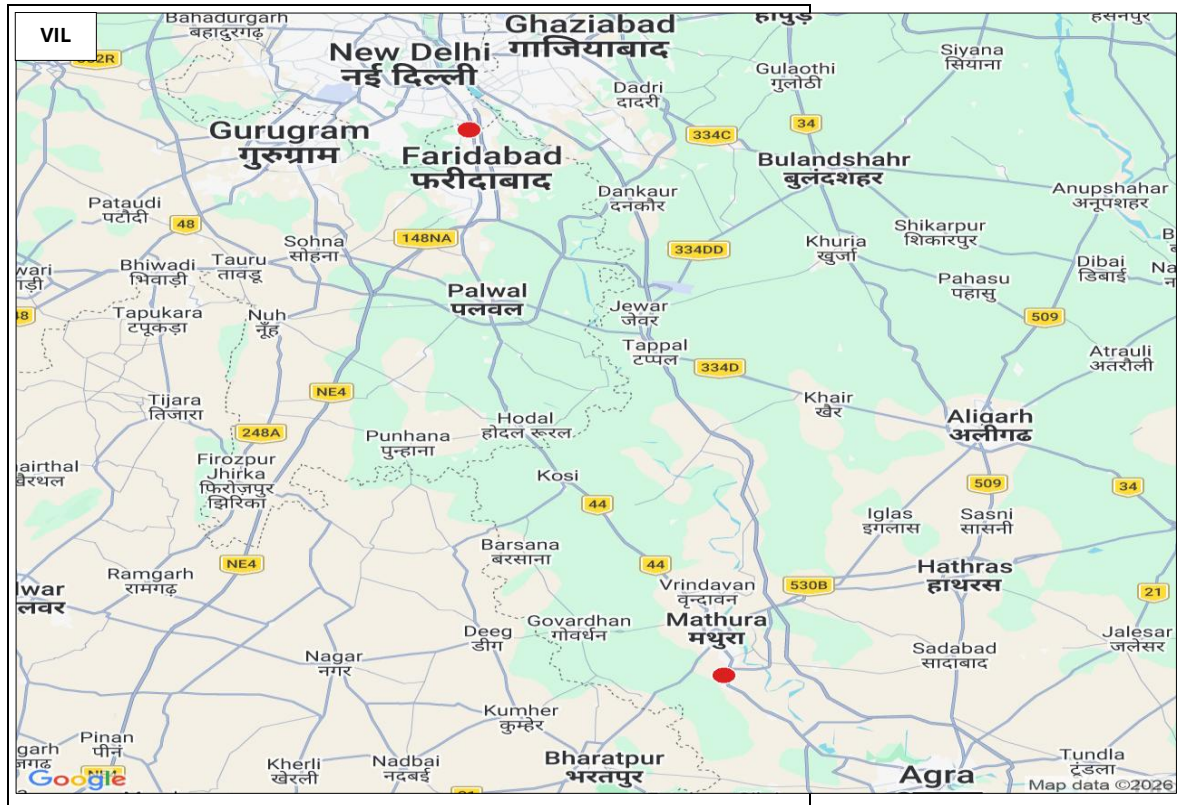
Note: Plot is based on Dynamic Drive Test results only.

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	60	60	63	62
Number of dropped Calls	0	12	3	2

Locations of Dropped Calls



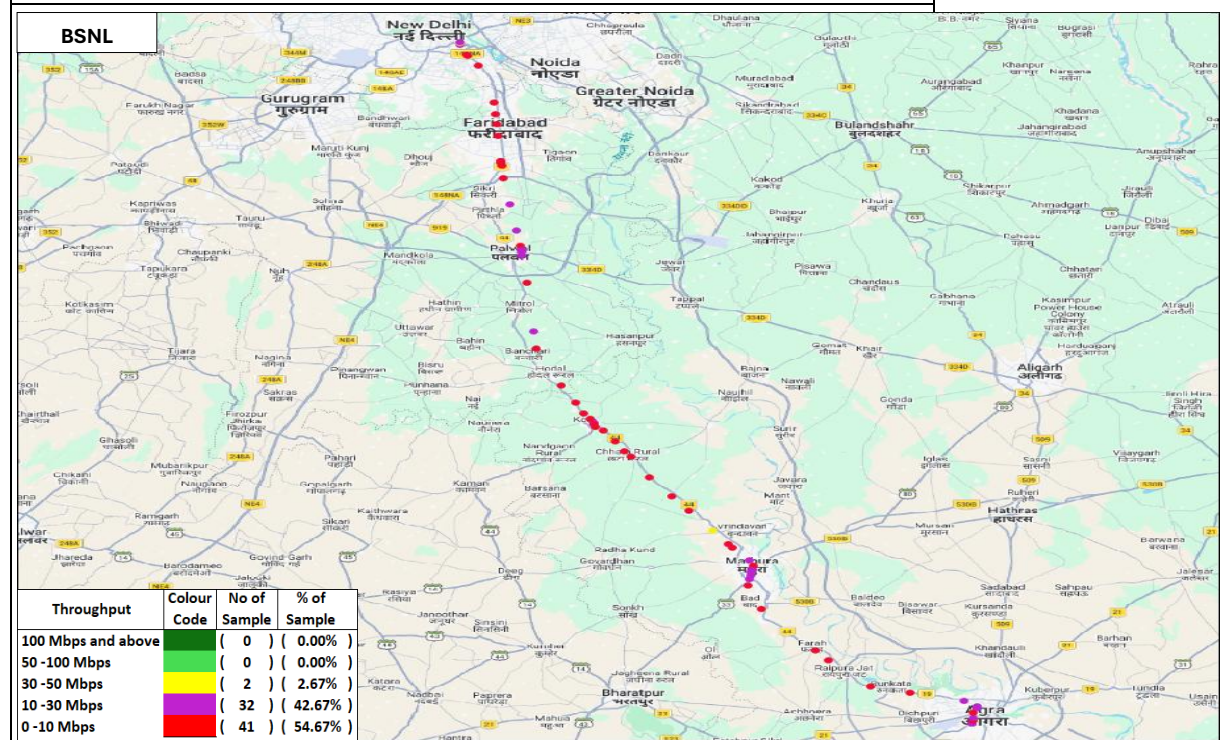
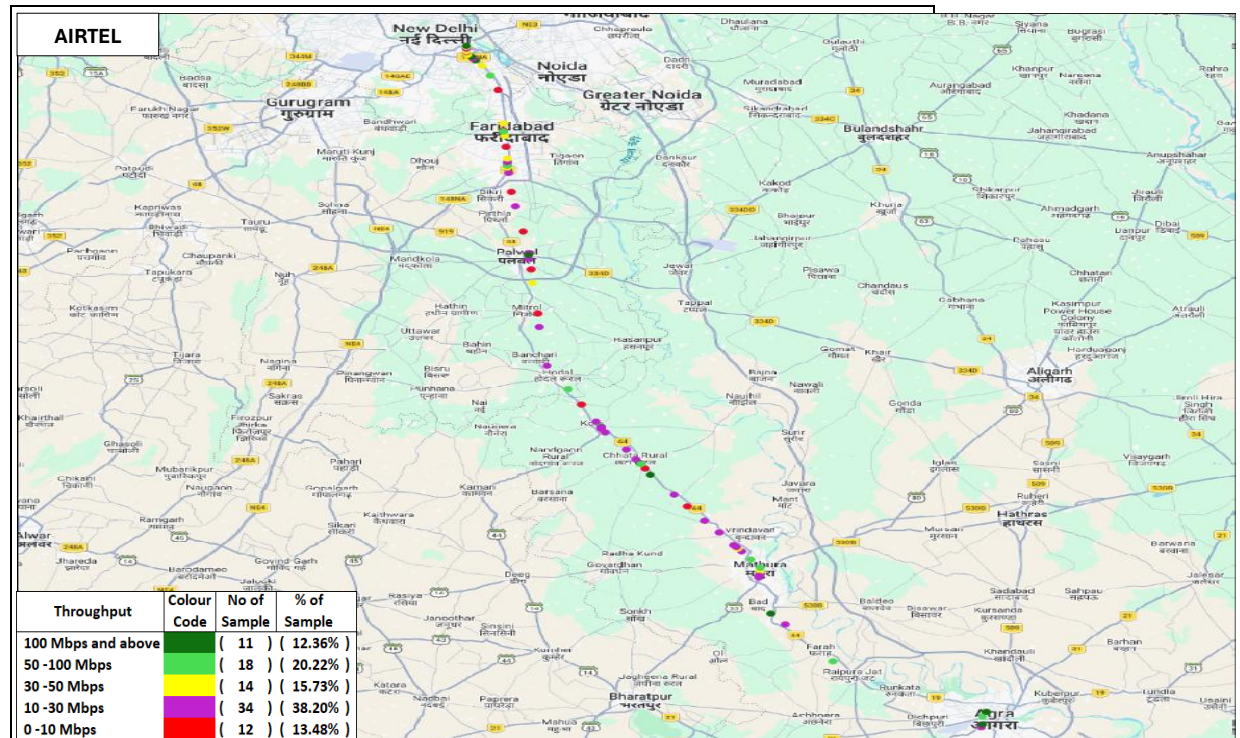


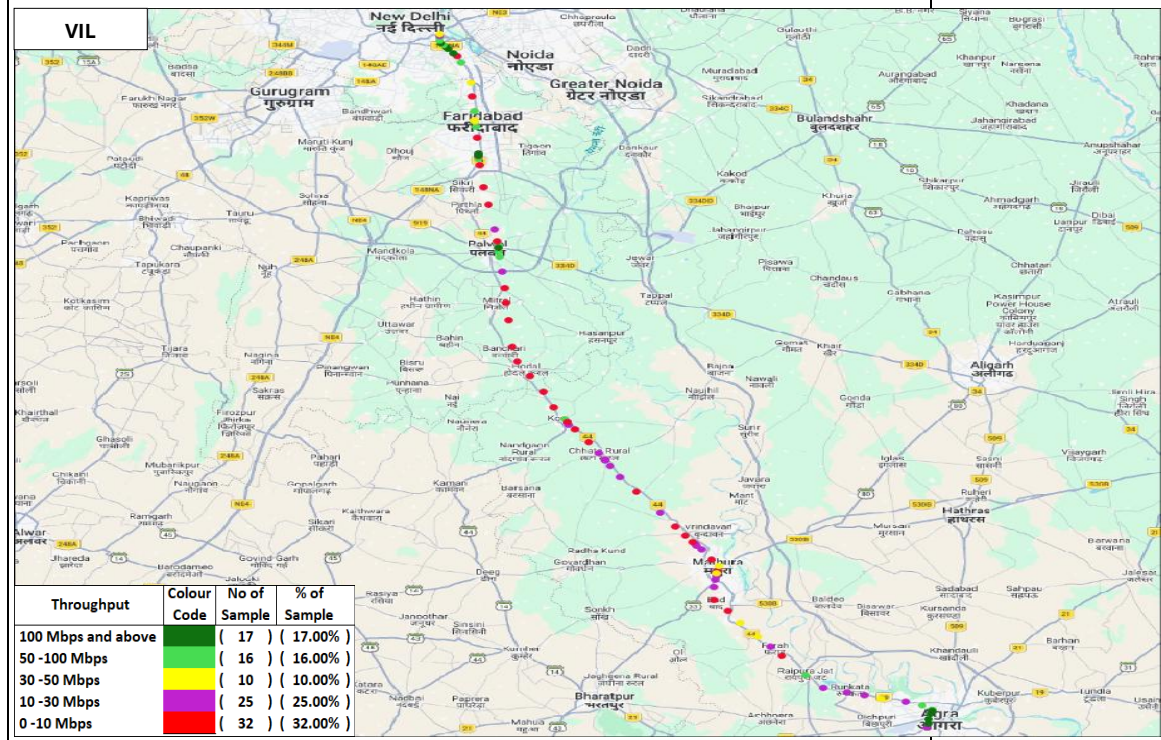
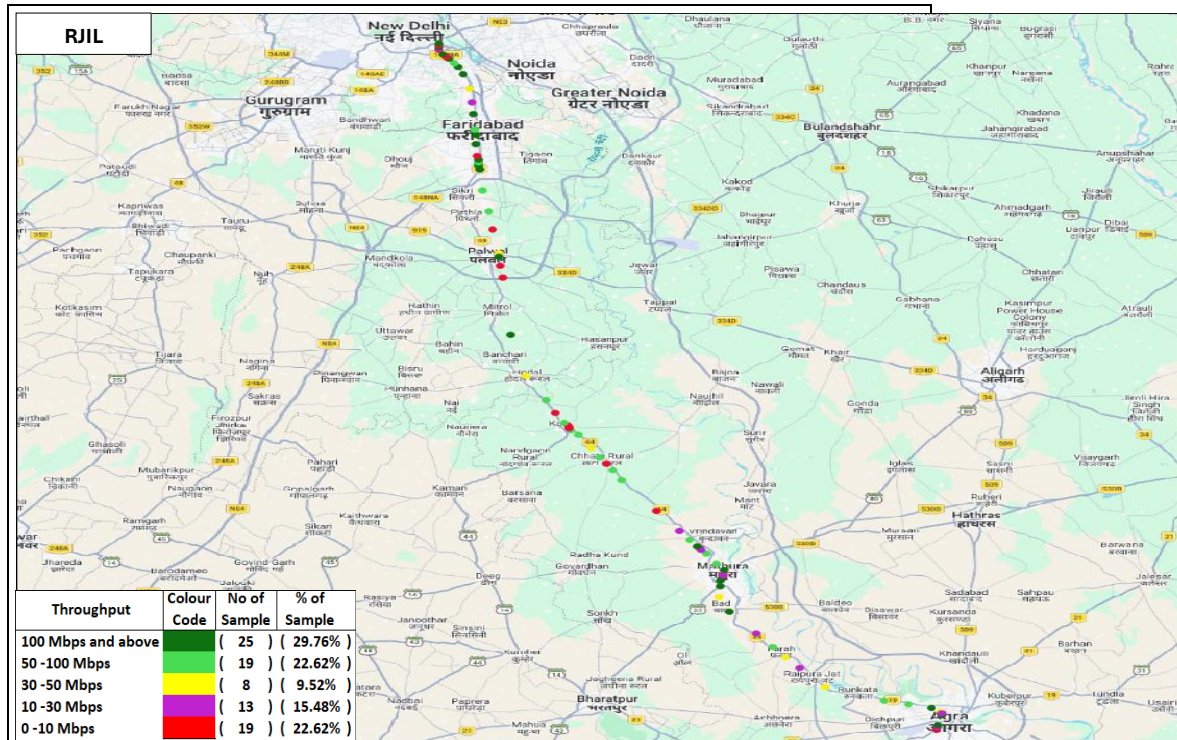
Note: Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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 4G)
Typical Download throughput declared by TSP	(Mbits/s)	18.00	8.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	44.23	9.99	82.68	47.48

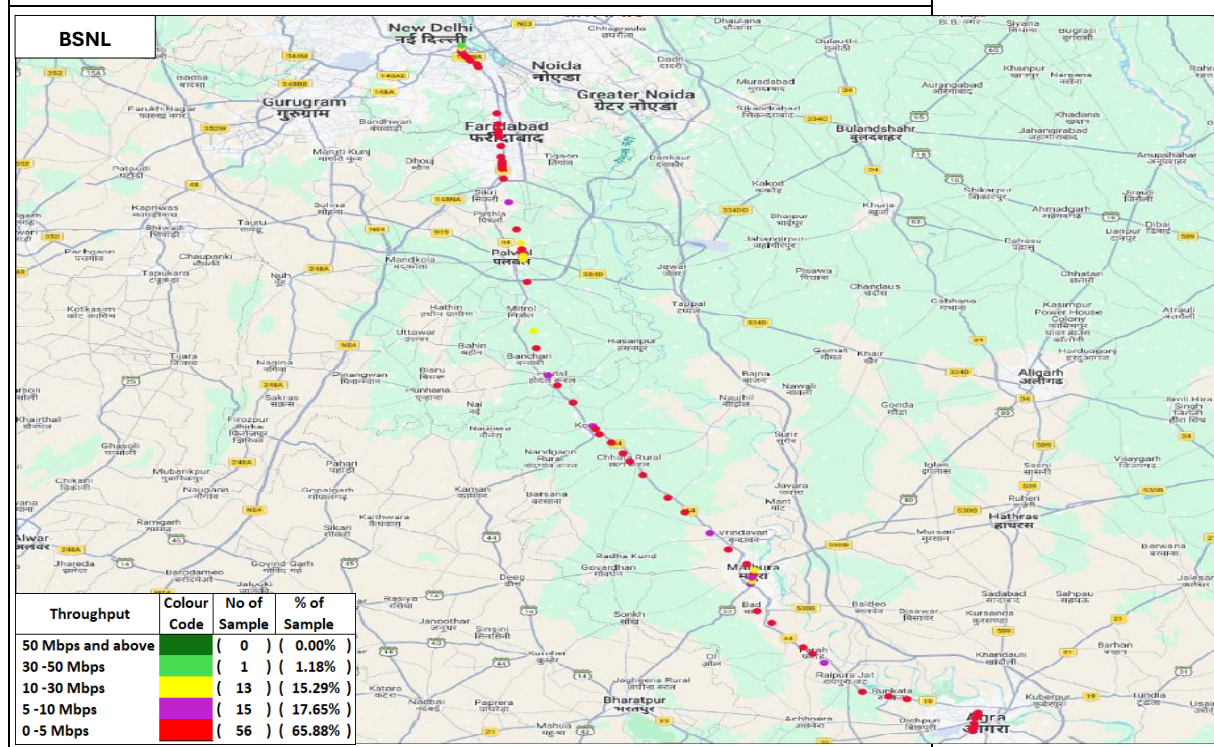
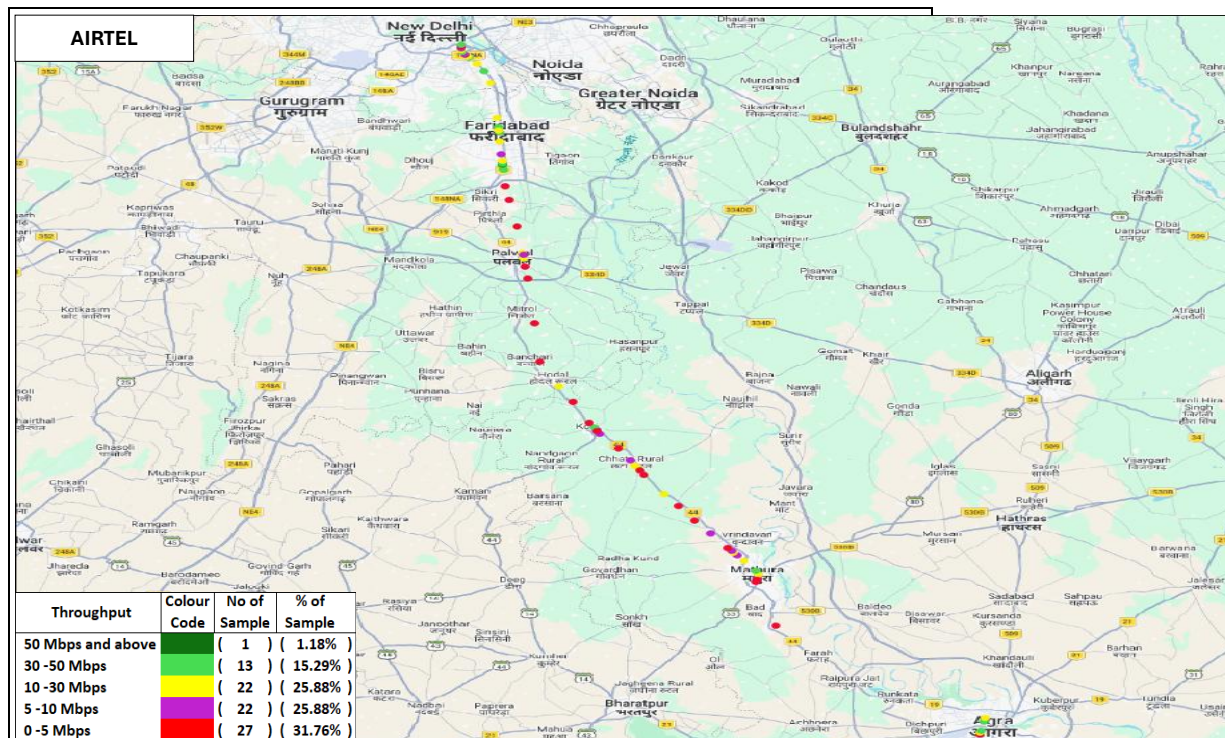


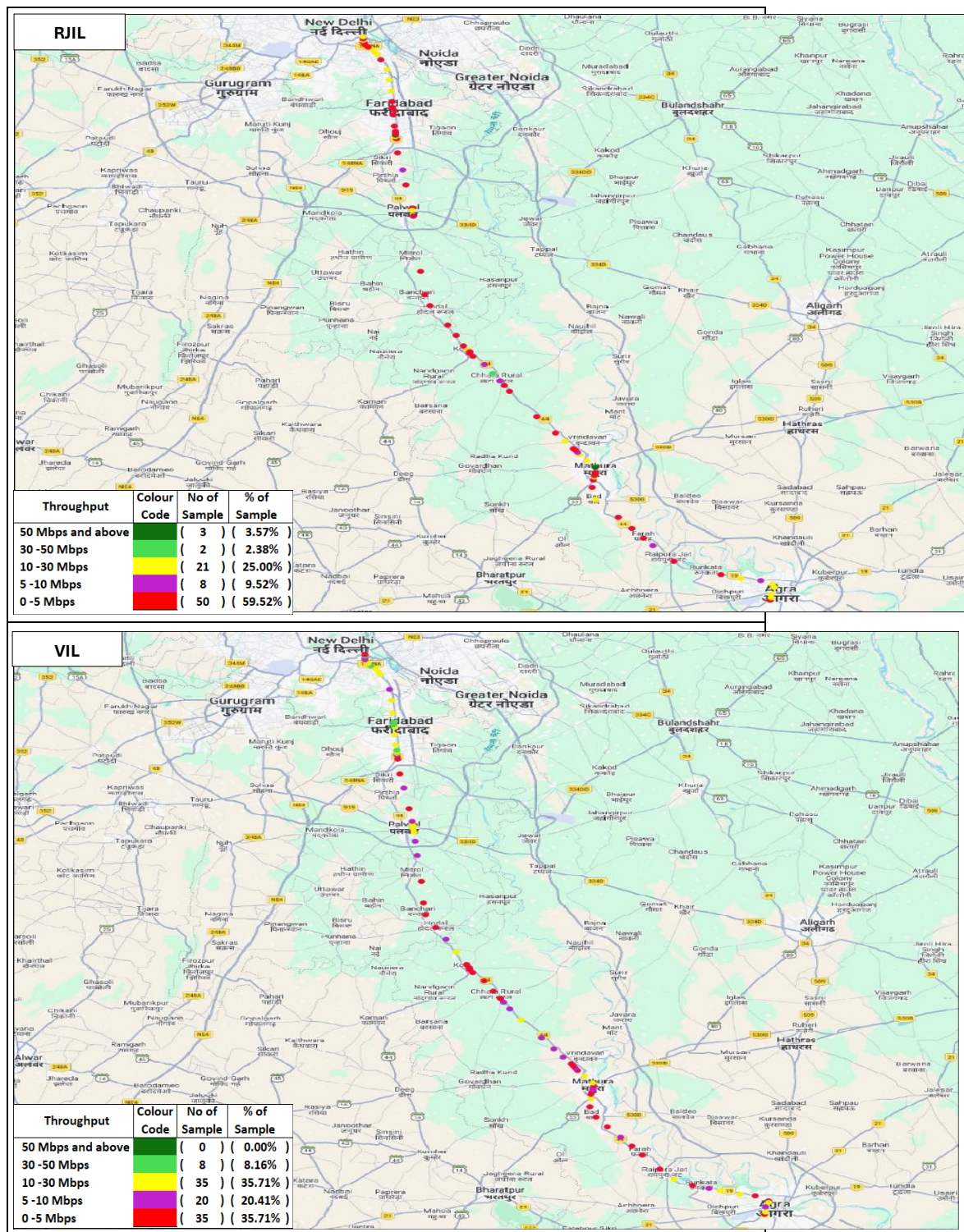


Note: Plot is based on Dynamic Drive Test results only.

(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)	8.00	1.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	13.32	5.07	10.14	12.31





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