Information Note to the Press (Press Release No 75 /2026)

TELECOM REGULATORY AUTHORITY OF INDIA

www.trai.gov.in

Regional Office Bhopal, June'2026

For Immediate Release

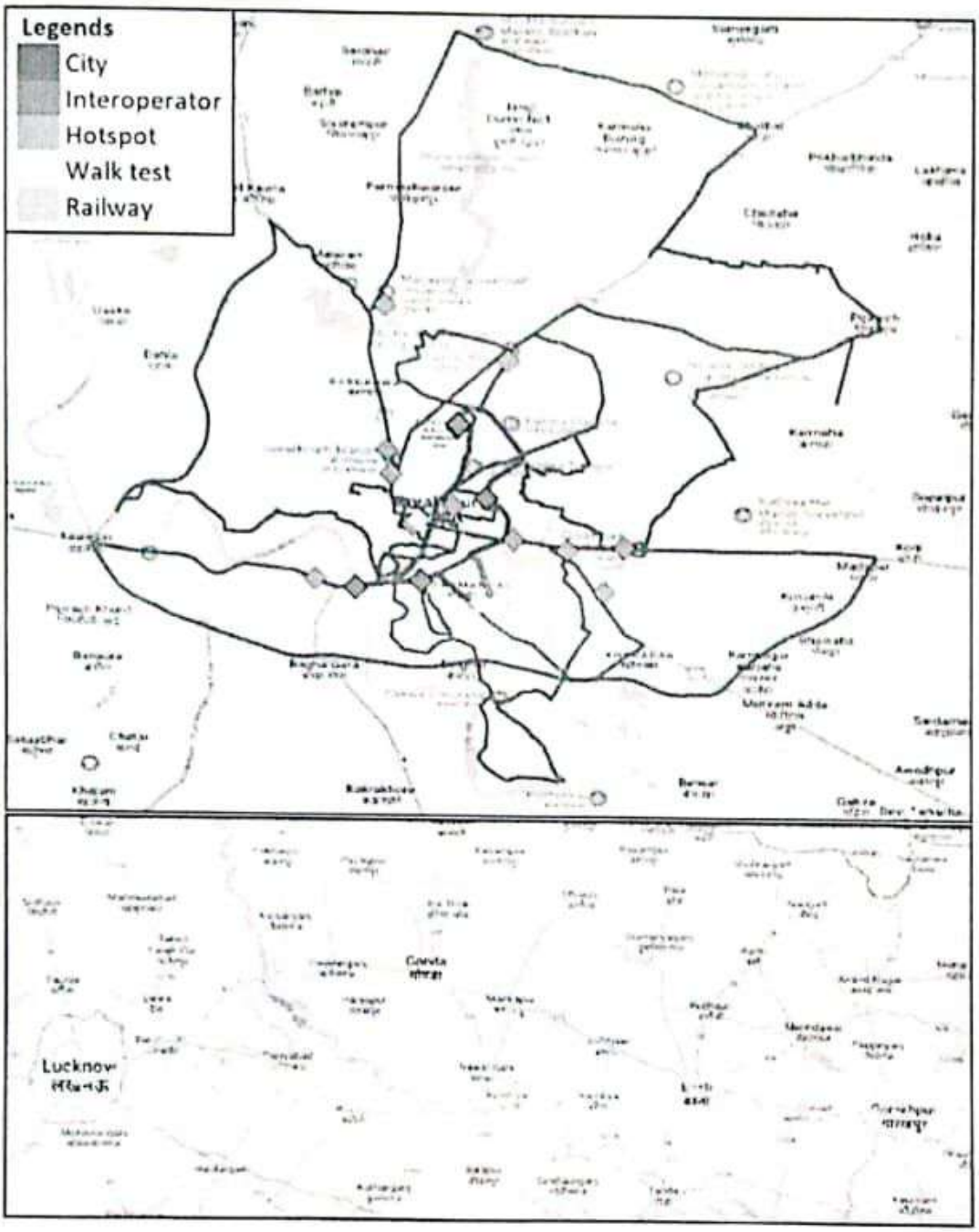
TRAI Assesses Mobile Network Quality Across Gorakhnath, Jhungiya, Ratnpur, Pipraich, Rampur Buzurg, Bhathat, Mangalpur, Delhi Public School, Gorakhpur, Govindpur, Kaalesar, Belghat, Madapar, Gorakhpur Airport, Taramandal, Ramjanki Nagar and Shahpur in Gorakhpur City & nearby areas.

The Telecom Regulatory Authority of India (TRAI) has released findings of Independent Drive Test (IDT) conducted across Gorakhpur City & nearby areas and Lucknow to Gorakhpur Railway route under UPE 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 - 342.1 KMs, Hotspot locations - 11, Walk Test - 3.7 Kms and Railway - 296.3 Kms in Gorakhpur city and Lucknow to Gorakhpur Railway route during 4th May 2026 to 8th May 2026 in **UPE LSA.** These tests were conducted under the supervision of the TRAI Regional Office Bhopal. 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 Gorakhpur City and Lucknow to Gorakhpur Railway route city for the key parameters has been summarised 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 **589**/ 51058 for **Airtel**, **13582**/ 48601 for **BSNL**, **623**/ 50514 for **RJIL** and **569**/ 50572 for **VIL** for Gorakhpur city & nearby areas and **1011**/ 15568 for **Airtel**, **6247**/ 13622 for **BSNL**, **450**/ 15645 for **RJIL** and **1163**/ 15449 for **VIL** for Lucknow to Gorakhpur Railway. 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 **1**/ 453 for **Airtel**, **22**/ 431 for **BSNL**, **2**/ 454 for **RJIL** and **4**/ 453 for **VIL** for Gorakhpur city & nearby areas and **2**/ 81 for **Airtel**, **25**/ 78 for **BSNL**, **4**/ 82 for **RJIL** and **2**/ 79 for **VIL** for Lucknow to Gorakhpur Railway. 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 **18**/ 440 for **Airtel**, **NA** for **BSNL**, **6**/ 439 for **RJIL** and **18**/ 449 for **VIL** for Gorakhpur city & nearby areas. 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 **116.48 Mbps** for **Airtel (5G/4G)**, **5.54 Mbps** for **BSNL (4G)**, **204.44 Mbps** for **RJIL (5G/4G)** and **64.50 Mbps** for **VIL (5G/4G)** for Gorakhpur city & nearby areas and **38.73 Mbps** for **Airtel (5G/4G)**, **5.53 Mbps** for **BSNL (4G)**, **68.38 Mbps** for **RJIL (5G/4G)** and **28.51 Mbps** for **VIL (5G/4G)** for Lucknow to Gorakhpur Railway. Detail of Download throughput has been provided in the map **Annexed.**

ii) **Data Upload performance (Overall)**: Average upload speed was observed as **21.49 Mbps** for **Airtel (5G/4G)**, **2.67 Mbps** for **BSNL (4G)**, **19.74 Mbps** for **RJIL (5G/4G)** and **14.83 Mbps** for **VIL (5G/4G)** for Gorakhpur city & nearby areas and **10.28 Mbps** for **Airtel (5G/4G)**, **3.05 Mbps** for **BSNL (4G)**, **10.79 Mbps** for **RJIL (5G/4G)** and **7.56 Mbps** for **VIL (5G/4G)** for Lucknow to Gorakhpur Railway. 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 Gorakhnath, Jhungiya, Ratnpur, Pipraich, Rampur Buzurg, Bhathat, Mangalpur, Delhi Public School, Gorakhpur, Govindpur, Kaalesar, Belghat, Madapar, Gorakhpur Airport, Taramandal, Ramjanki Nagar and Shahpur etc. in Gorakhpur City & nearby areas.

b) **Hotspot** - The hot spot locations, capturing stationary user experience, are All India Institute of Medical Sciences, Baba Raghav Das Medical College Gorakhpur, Gorakhnath Temple, Gorakhpur Airport, Gorakhpur Junction, HP Petrol Pump Bus Station Nausad, Maharana Pratap Polytechnic, Mahatma Gandhi Post Graduate College, Mahayogi Gorakhnath University, MMM University of Technology, Orion Mall etc.

c) **Walk Test** - The walk tests conducted on 7th May 2026, covered Ambedkar Park, Nauka Vihar Ramgarh Tal and Vijay Chowk Market Area capturing mobile network behaviour in crowded pedestrian environments.

d) **Railway Route** - The Railway route conducted on 4th May 2026, covered Lucknow to Gorakhpur passing through Barabanki, Rudauli, Ayodhya, Mankapur, Basti and Khalilabad etc.

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.bhopal@trai.gov.in or Regional Office of TRAI at Bhopal RO can be contacted on telephone no. +91-755-2575501.

Sanjay Kumar Gupta,
Advisor, RO Bhopal

Annexure

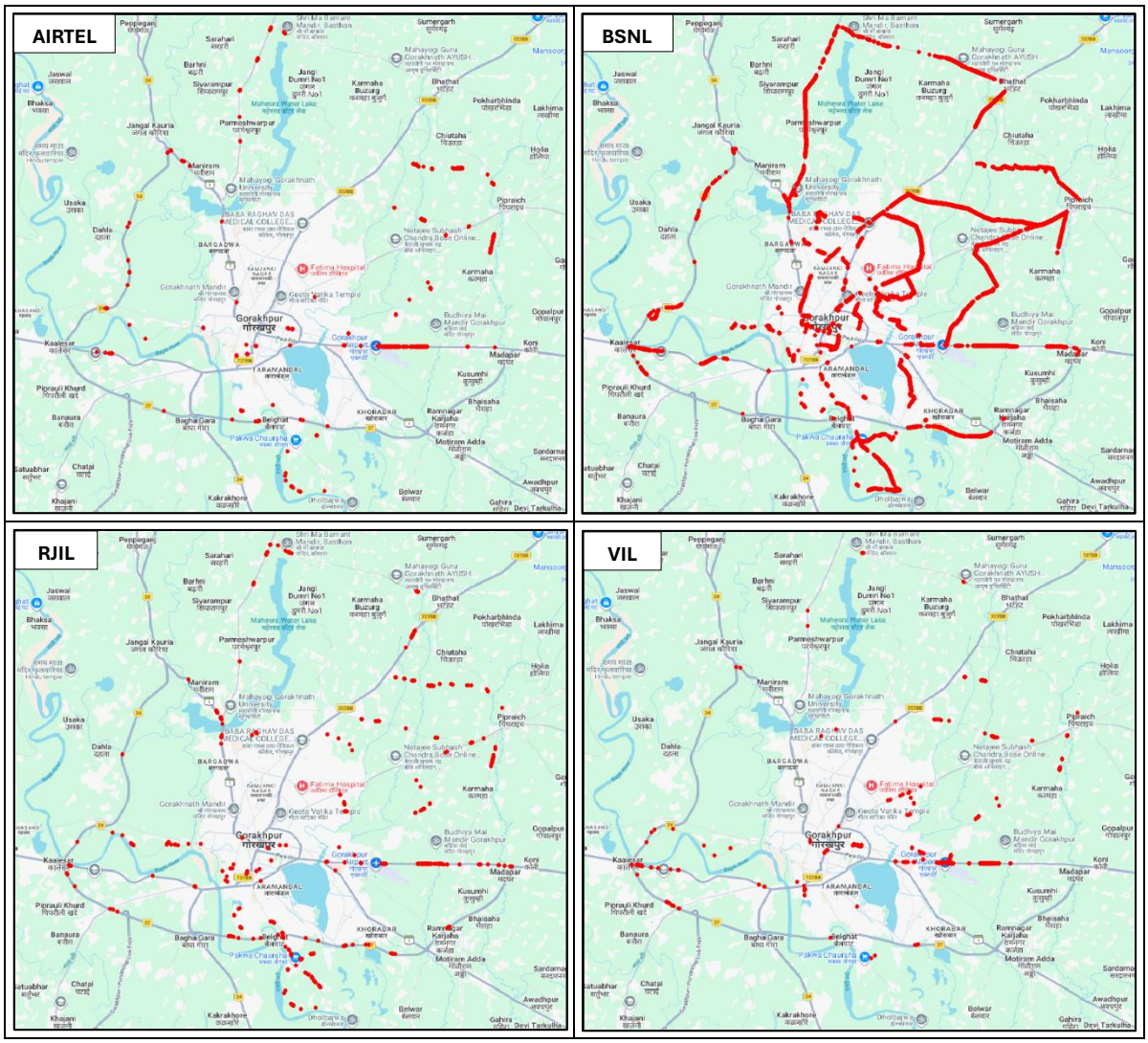
1. **Gorakhpur City & nearby areas: -**

   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	51058	48601	50514	50572
Number of Samples having poor signal strength	589	13582	623	569

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

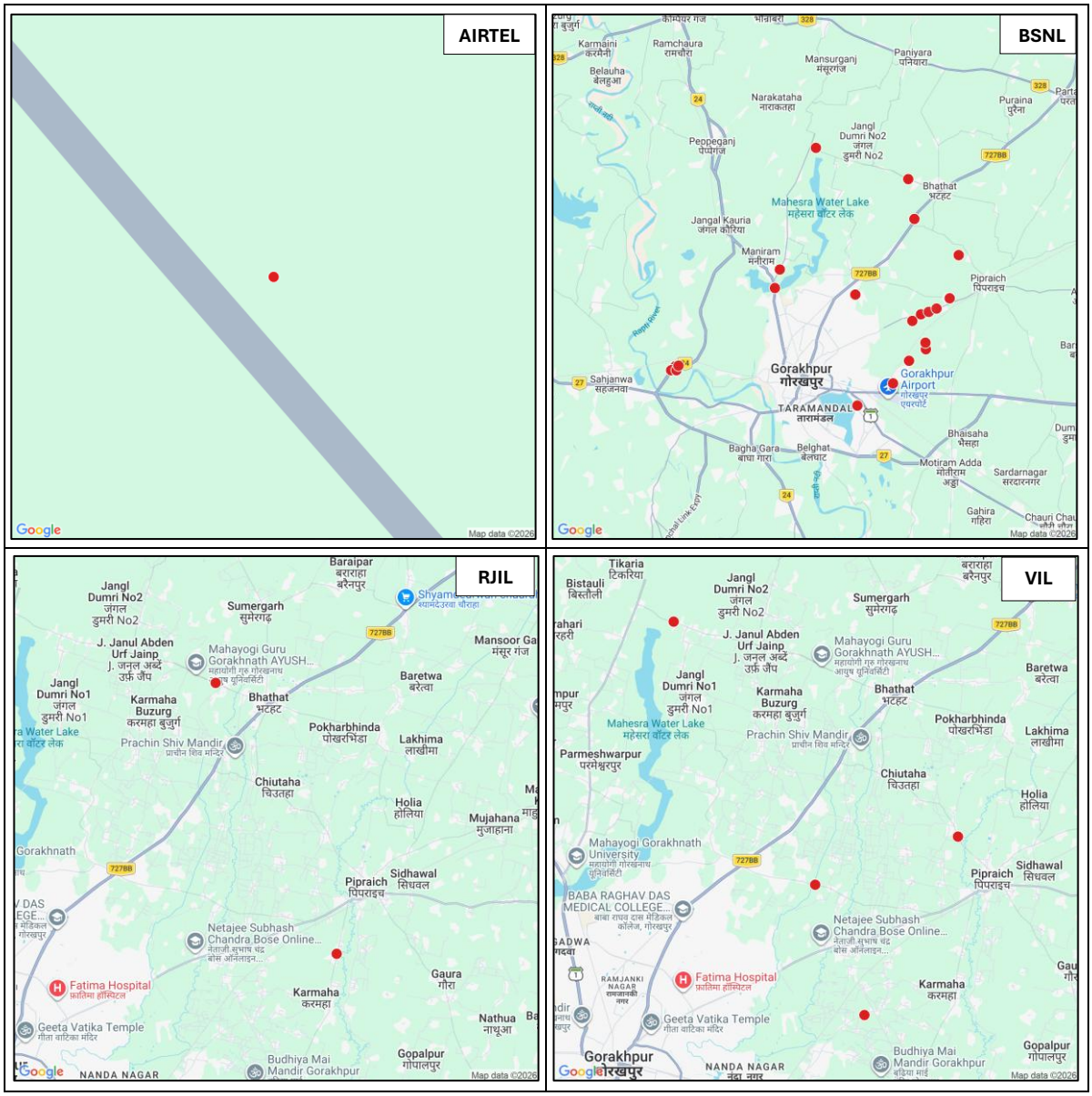


Note: Plot is based on Dynamic Drive Test results only.

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	453	431	454	453
Number of dropped Calls	1	22	2	4

Locations of Dropped Calls



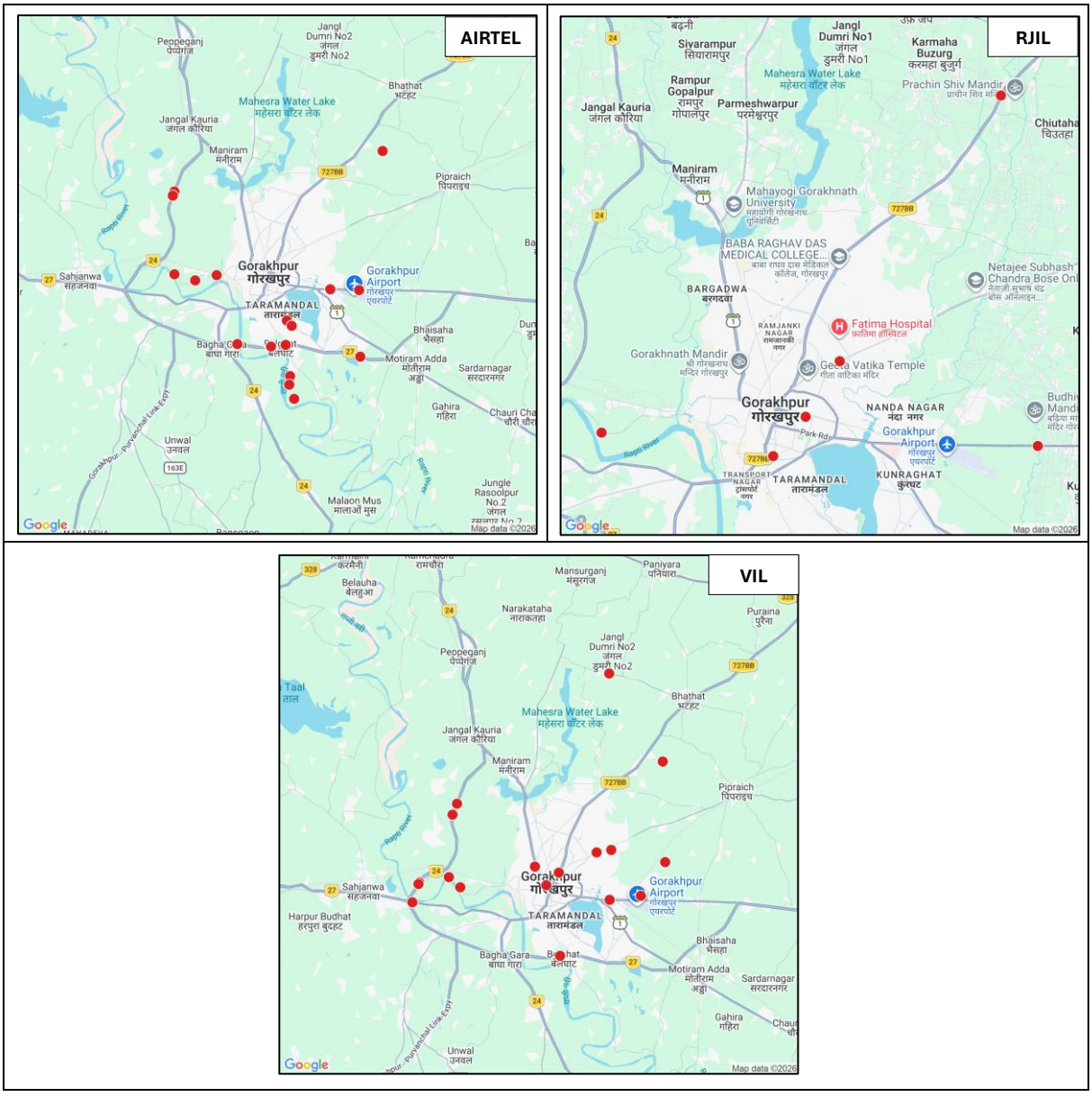
Note: Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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)	440	NA*	439	449
Number of silences calls for >3 Sec	16	NA*	6	18
Total number of silence instances for >3 Sec	18	NA*	6	18

*NA- Not Applicable

Locations of Call Silence Instance

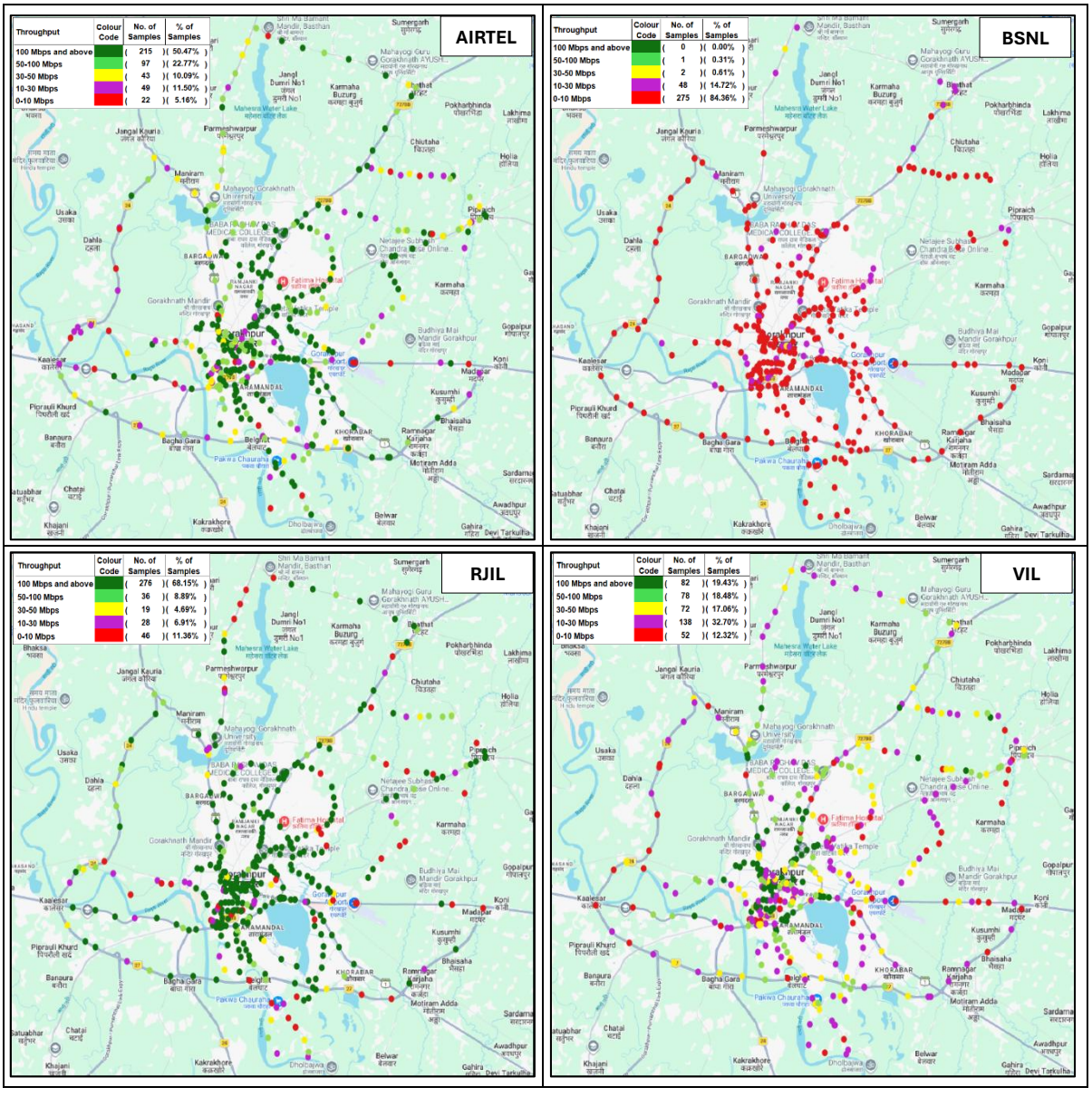


Note: Call silence instances are shown in red color and which can be clicked to know the exact location (latitude and longitude) on the map

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

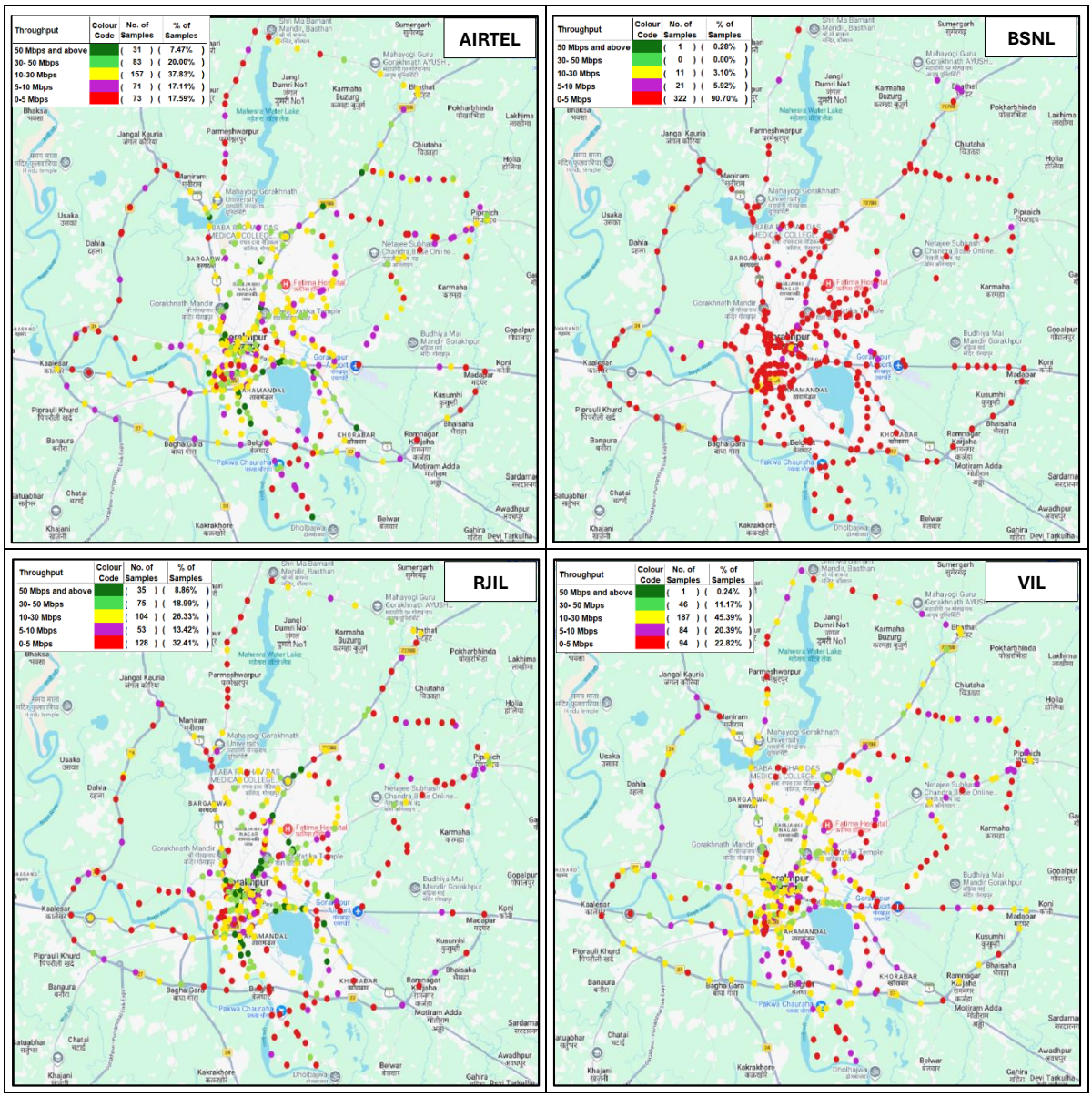
Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 4G)	RJIL (upto 5G)	VIL (upto 5G)
Typical Download throughput declared by TSP	(Mbits/s)	49.00	3.46	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	116.48	5.54	204.44	64.50



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)	8.00	2.64	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	21.49	2.67	19.74	14.83



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

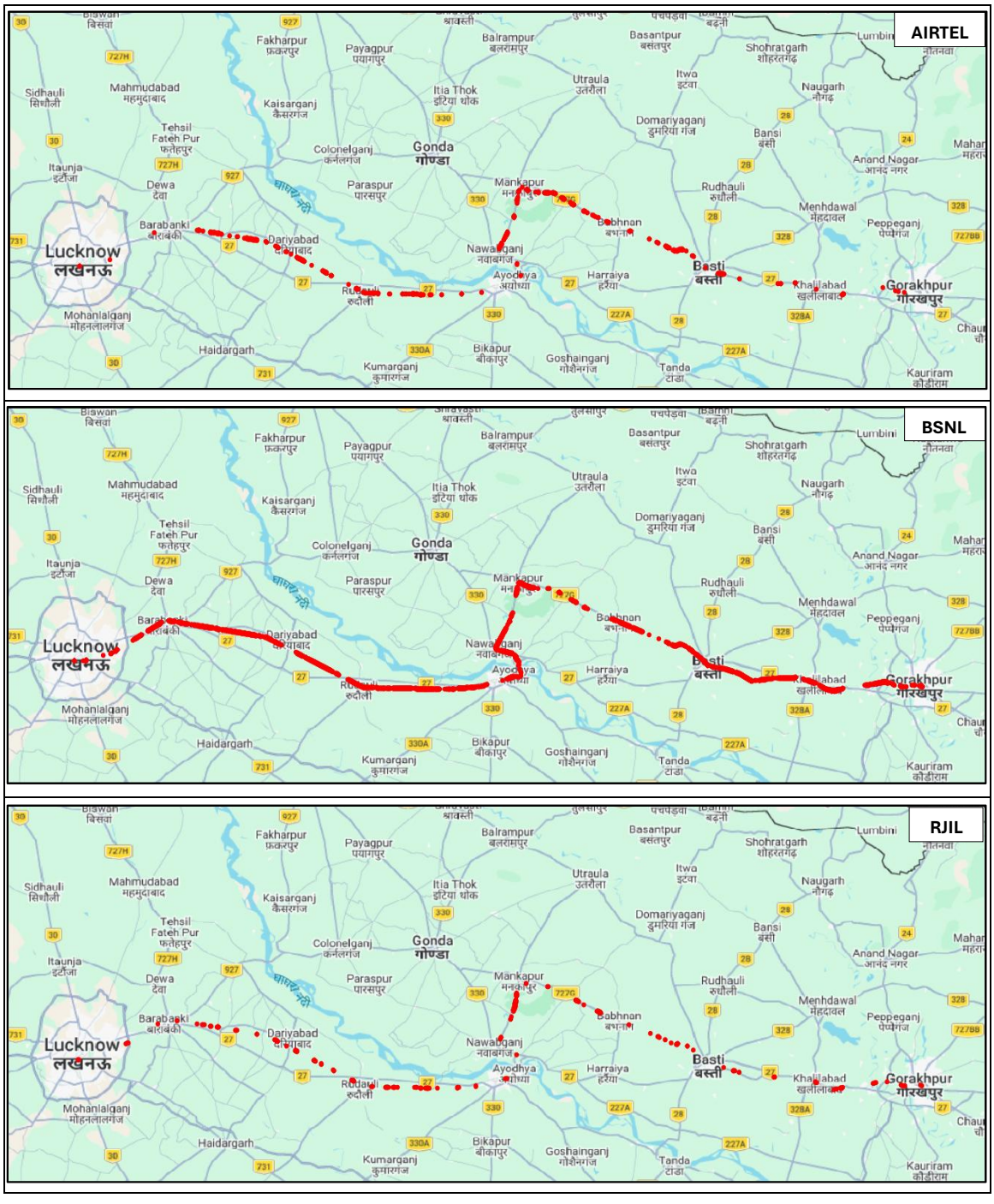
2. **Lucknow to Gorakhpur Railway Route:**

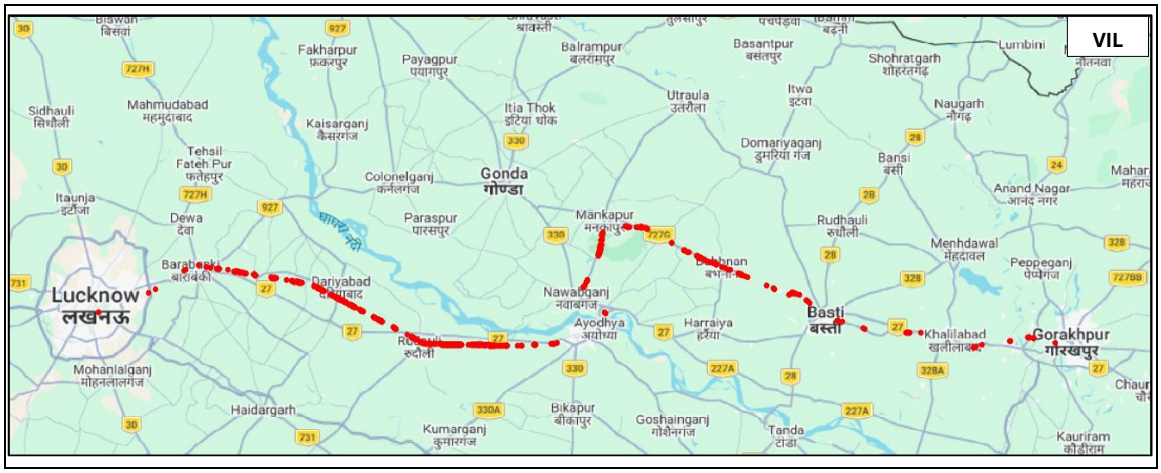
a) Coverage Gap – The coverage distribution found less than the minimum specified signal strength for the drive test route in auto-selection mode (5G/4G/3G/2G) during voice testing, is as below:

Parameter	AIRTEL	BSNL	RJIL	VIL
Total Number of Samples captured on Drive test route	15568	13622	15645	15449
Number of Samples having poor signal strength	1011	6247	450	1163

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



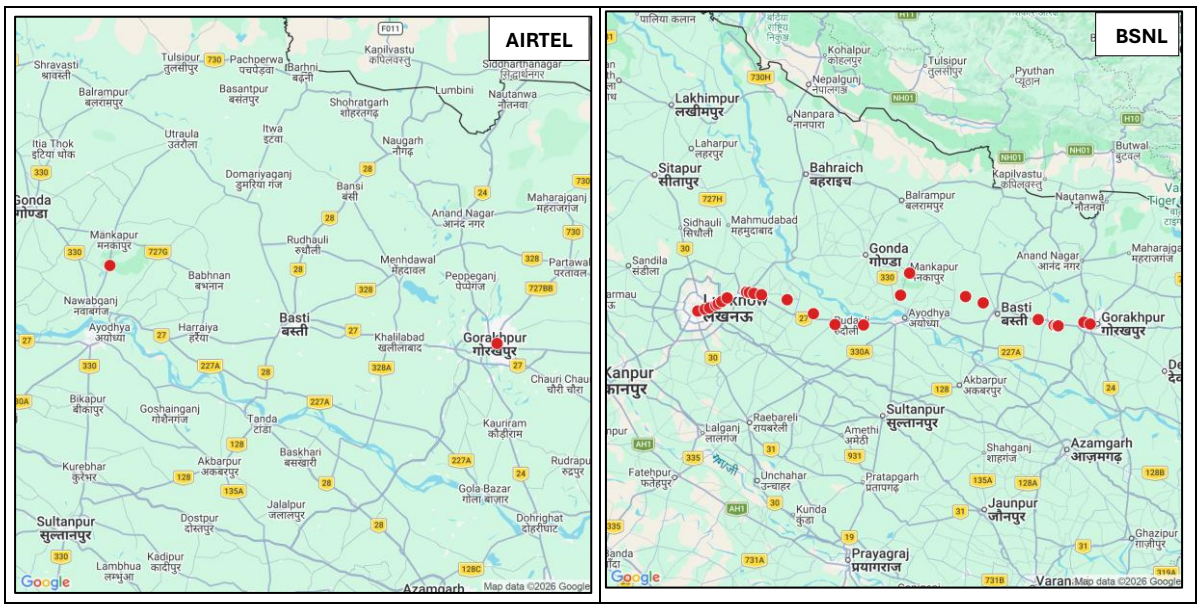


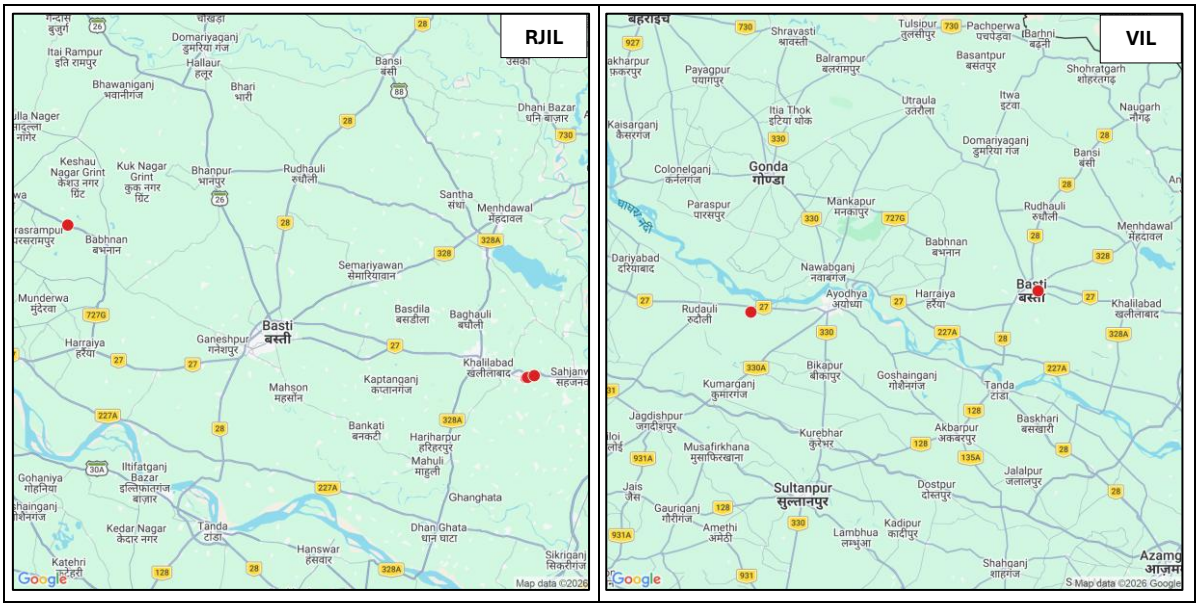
Note: Plot is based on Dynamic Drive Test results only

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	81	78	82	79
Number of dropped Calls	2	25	4	2

Locations of Dropped Calls



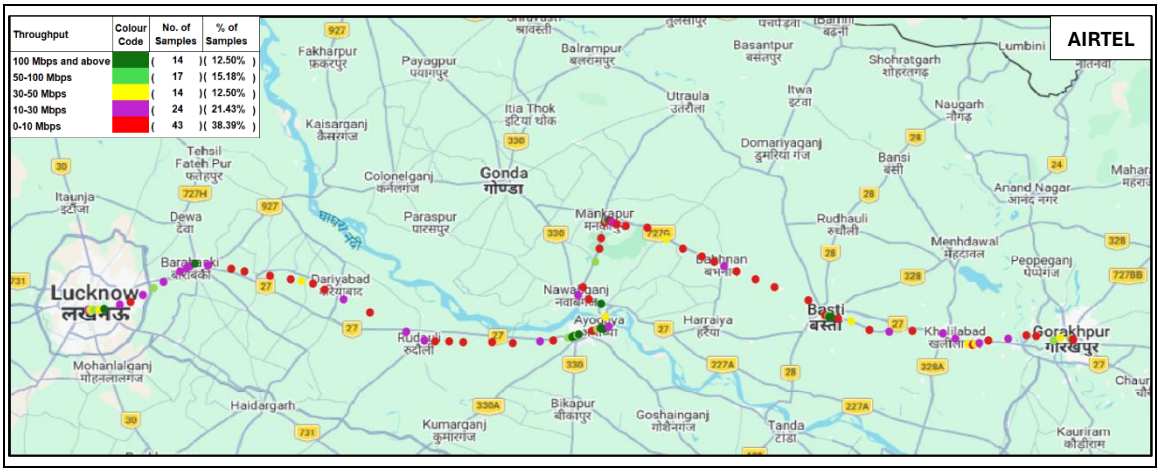


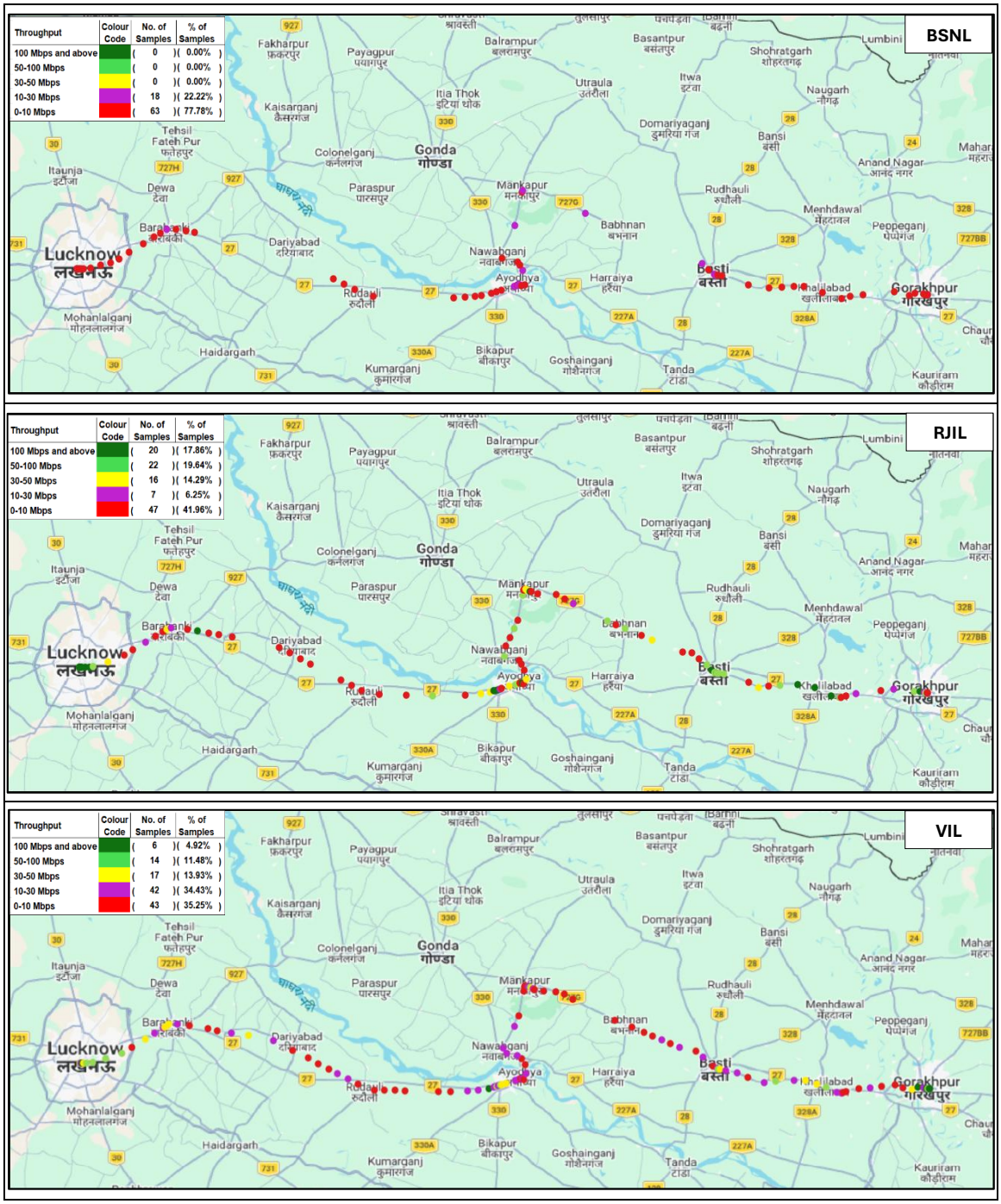
Note: Dropped calls locations are shown in red colour and which can be clicked to know the exact location (latitude and longitude) on the map.

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 5G)
Typical Download throughput declared by TSP	(Mbits/s)	49.00	3.46	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	38.73	5.53	66.38	28.51

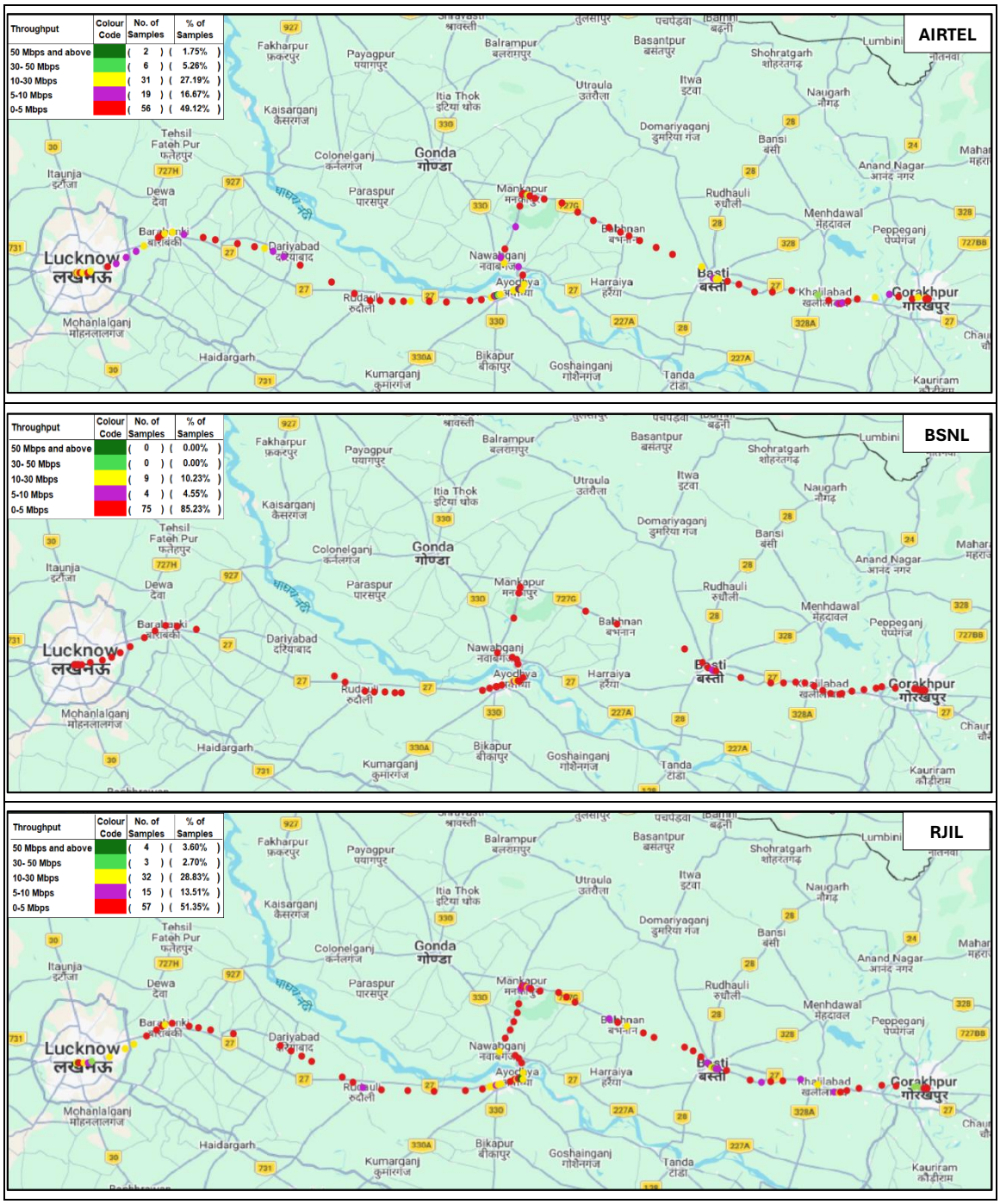


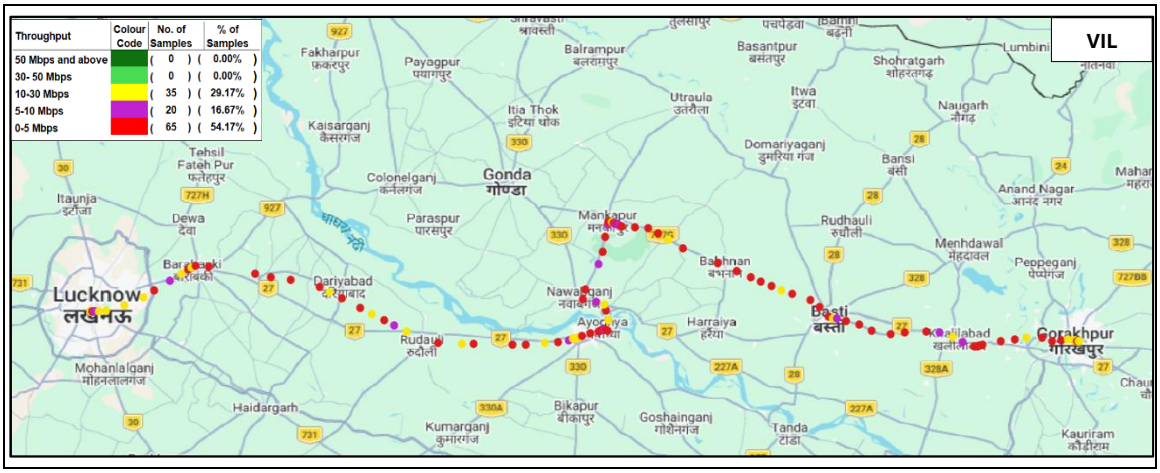


Note: Plot is based on Dynamic Drive Test results only**.**

(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)	8.00	2.64	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	10.28	3.05	10.79	7.56





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