Information Note to the Press (Press Release No.160/ 2026)

TELECOM REGULATORY AUTHORITY OF INDIA
www.trai.gov.in
New Delhi, 25 Nov 2026

For Immediate Release

TRAI Assesses Mobile Network Quality Across Mandoli, Sahibabad, Govindpuram, Vasundhara, Indirapuram, Pratap Vihar, Lal Kuan, Dhoom Manikpur, Madhuban Bapudham, Chipyana Khurd urf Tigri, Ghaziabad, Raj Nagar Extension, Chhapraula, Noida, Noida Sector 62, Noida Sector 63, Amity University Noida, Bisrakh Jalalpur, Kulesara, Surajpur, Greater Noida, Badalpur, Tilpata Karanwas, Sector XU-2, Dadha and Kasna etc and nearby areas.

The Telecom Regulatory Authority of India (TRAI) has released findings of Independent Drive Test (IDT) conducted across Noida, Ghaziabad, Greater Noida and nearby areas route under Delhi LSA, during the month of Sep 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 City drive – 813.4 Km, Hotspot locations - 08, Walk Test – 3.8 Km, Inter Operator Calling at 01 location during 01st Sep 2026 to 05th Sep 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 Route Map**: The following map provides overview of drive test routes indicating City drive, Inter-operator calling, Hotspots & walk test as per the legends shown on the map: -

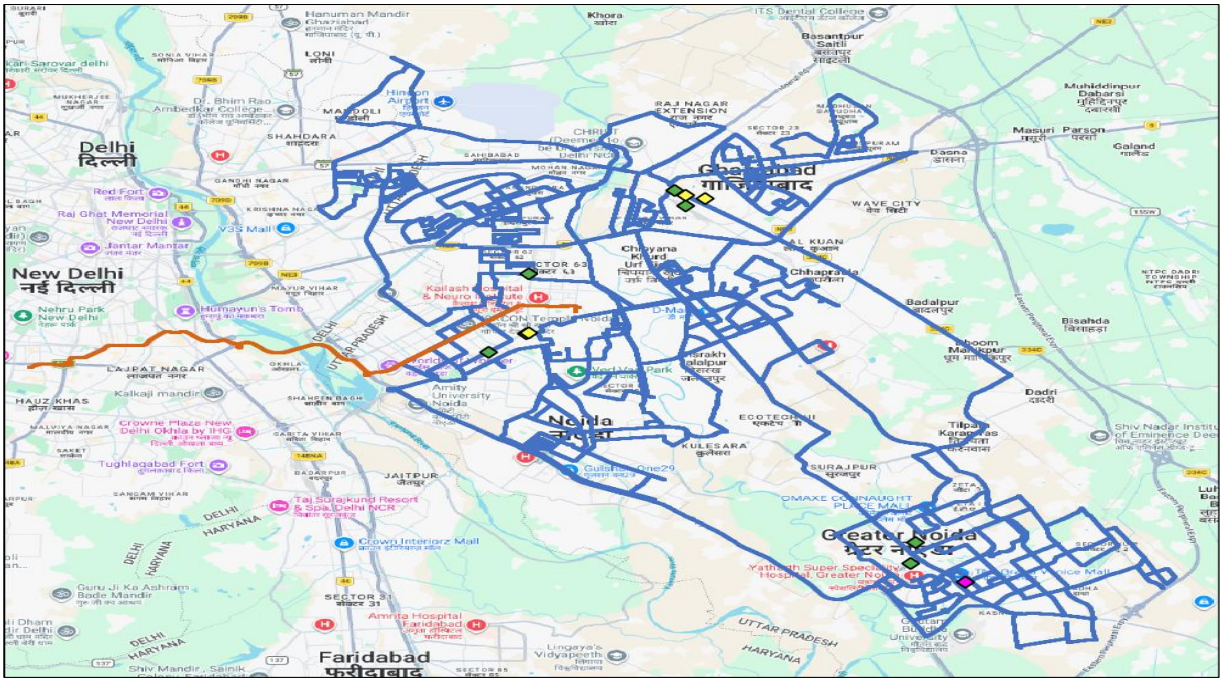

Figure-1: Drive test routes

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 across Ghaziabad, Noida and Greater Noida (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 1053/127346 for Airtel, 79985/121733 for BSNL/MTNL, 2146/127212 for RJIL & 1246/132094 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 9/1139 for Airtel, 173/1071 for BSNL/MTNL, 14/1146 for RJIL & 2/1158 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 8/1086 for Airtel, 10/878 for BSNL/MTNL, 54/1086 for RJIL & 4/1107 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 114.38 Mbps for Airtel (5G), 5.49 Mbps for BSNL/MTNL (4G) , 248.50 Mbps for RJIL (5G) & 94.30 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 25.11 Mbps for Airtel (5G), 1.72 Mbps for BSNL/MTNL (4G) , 18.71 Mbps for RJIL (5G) & 18.92 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 Noida Sector 121 to World Trade Centre (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 1/2793 for Airtel, 1646/2743 for BSNL/MTNL , 12/2849 for RJIL & 4/2973 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 0/25 for Airtel, 06/23 for BSNL/MTNL, 0/26 & 0/24 for VIL for RJIL. Details of the dropped call locations have been provided in the map of Annexure**-II**.

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 0/24 for Airtel, NA for BSNL/MTNL, 0/21 for RJIL & 0/24 for VIL. Details of the call silence instance locations have been provided in the map of Annexure**-II**.

d) **Data Download and Upload Throughput**:

i) Data Download performance (Overall): Average download speed was observed as 175.41Mbps for Airtel (5G), 3.39 Mbps for BSNL/MTNL (4G), 346.84 Mbps for RJIL (5G) & 129.86 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 19.29 Mbps for Airtel (5G), 1.02 Mbps for BSNL/MTNL (4G) , 27.94 Mbps for RJIL (5G) & 29.08 Mbps for VIL(5G). Details of Upload throughput have been provided in the map of Annexure-**II**.

Locations of Dropped Calls and Call Silence instances 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) **City** - The areas covered in the city drive are Mandoli, Sahibabad, Govindpuram, Vasundhara, Indirapuram, Pratap Vihar, Lal Kuan, Dhoom Manikpur, Madhuban Bapudham, Chipyana Khurd urf Tigri, Ghaziabad, Raj Nagar Extension, Chhapraula, Noida, Noida Sector 62, Noida Sector 63, Amity University Noida, Bisrakh Jalalpur, Kulesara, Surajpur, Greater Noida, Badalpur, Tilpata Karanwas, Sector XU-2, Dadha and Kasna and nearby areas.

b) **Hotspot** - The hotspot locations, capturing stationary user experience are Alpha 1 Market, Fortis Hospital Sec-62 Noida, Ghaziabad Junction Railway Station, MMG District Hospital, Noida City Centre Bus Stand, Noida Sector 52 Metro Station, Pari Chowk Station and The Grand Venice Mall.

c) **Walk Test** - The walk test conducted on 05th Sep 2026, covered Gandhi Nagar Market Ghaziabad, Ghaziabad Ghantaghar Market Including Turav Nagar Market and Noida Sec-52 Metro to Noida Sec-51 Skywalk and Surrounding Areas capturing mobile network behaviors in crowded pedestrian environments.

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.delhi@trai.gov.in or Regional Office of TRAI at Delhi RO can be contacted on Telephone No.+91-11-20907772.

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Advisor, RO Delhi, TRAI

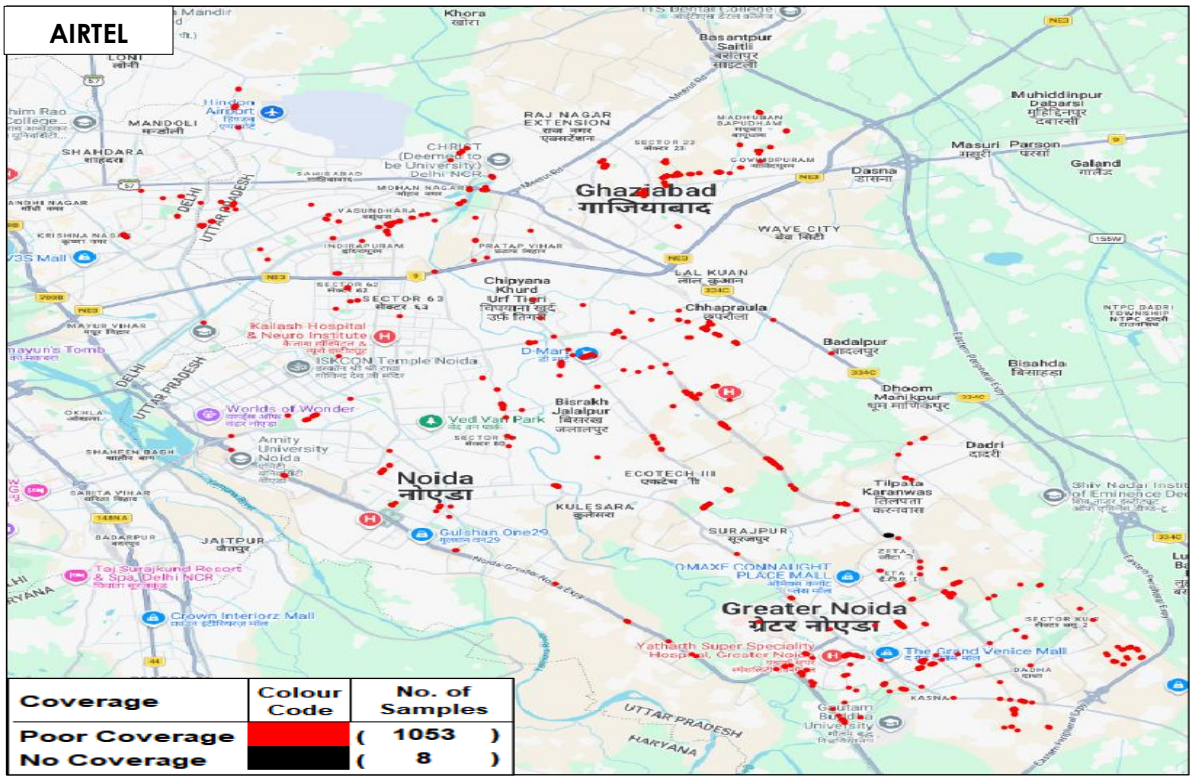
Annexure-I

1. City Drive: Ghaziabad, Noida and Greater Noida areas

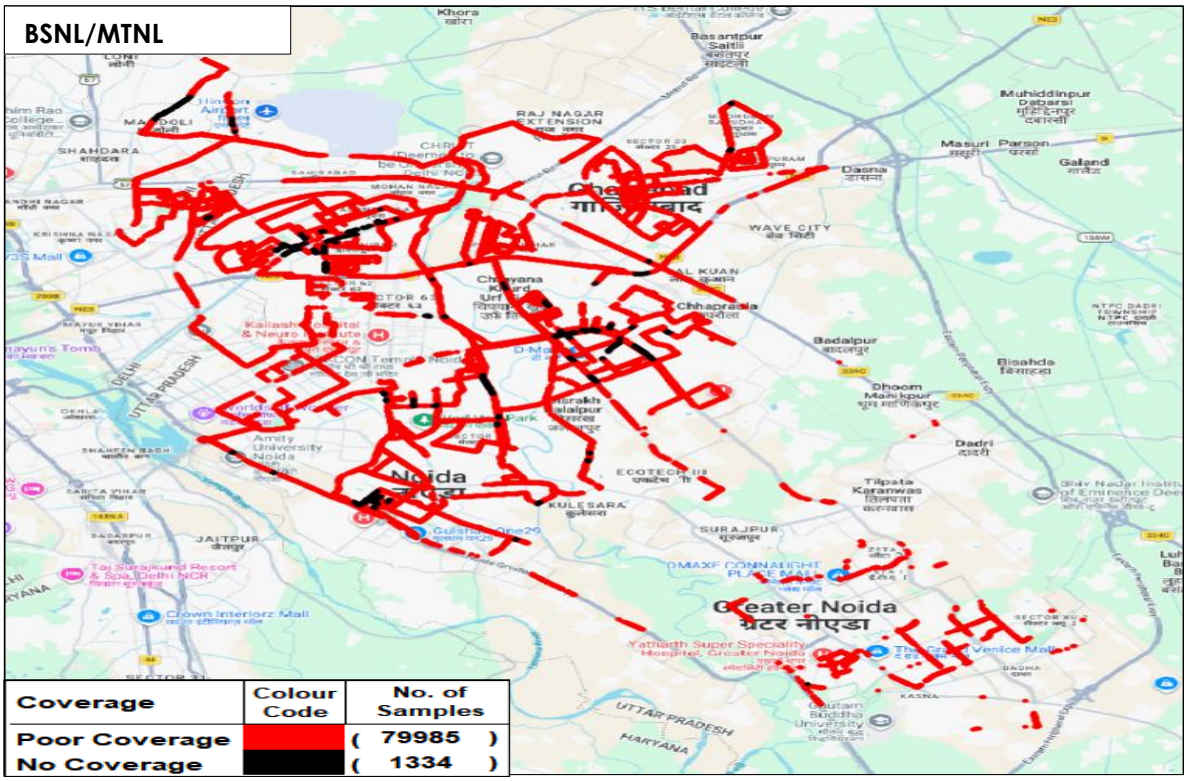
(a) Coverage Gap - The signal strength observed during voice testing on the drive test route in auto-selection mode (5G/4G/3G/2G).

Parameter	AIRTEL	BSNL/ MTNL	RJIL	VIL
Total Number of Samples captured on Drive test route	127346	121733	127212	132094
Number of Samples having poor signal strength	1053	79985	2146	1246
Number of Samples having limited service (No Coverage)	8	1334	0	0

Coverage Gap observed

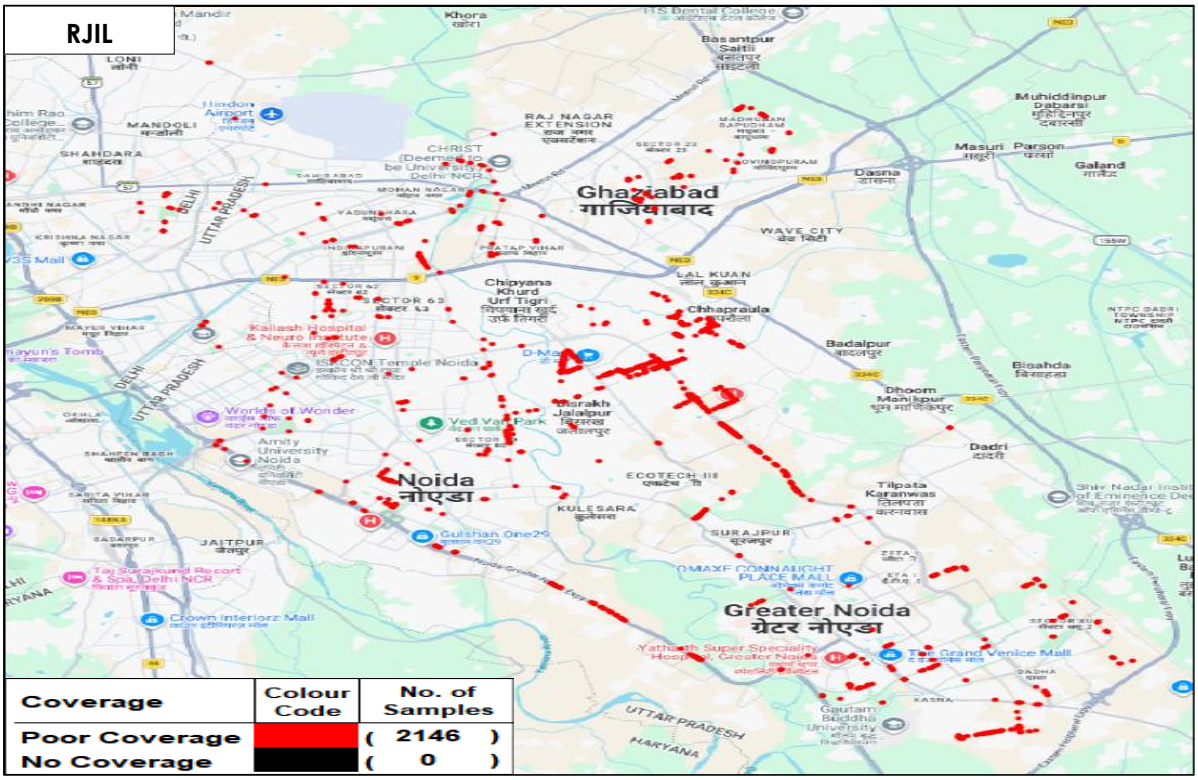


BSNL/MTNL

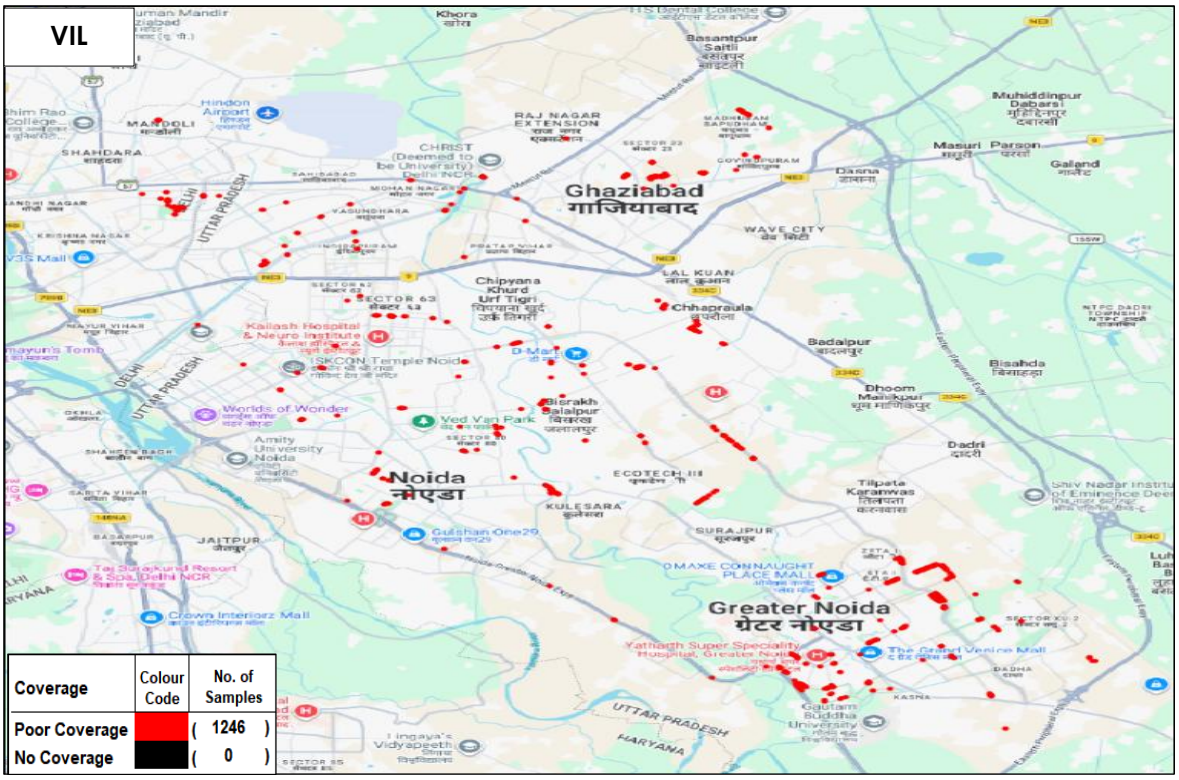


Coverage	Colour Code	No. of Samples
Poor Coverage		(79985)
No Coverage		(1334)

RJIL



Coverage	Colour Code	No. of Samples
Poor Coverage		(2146)
No Coverage		(0)

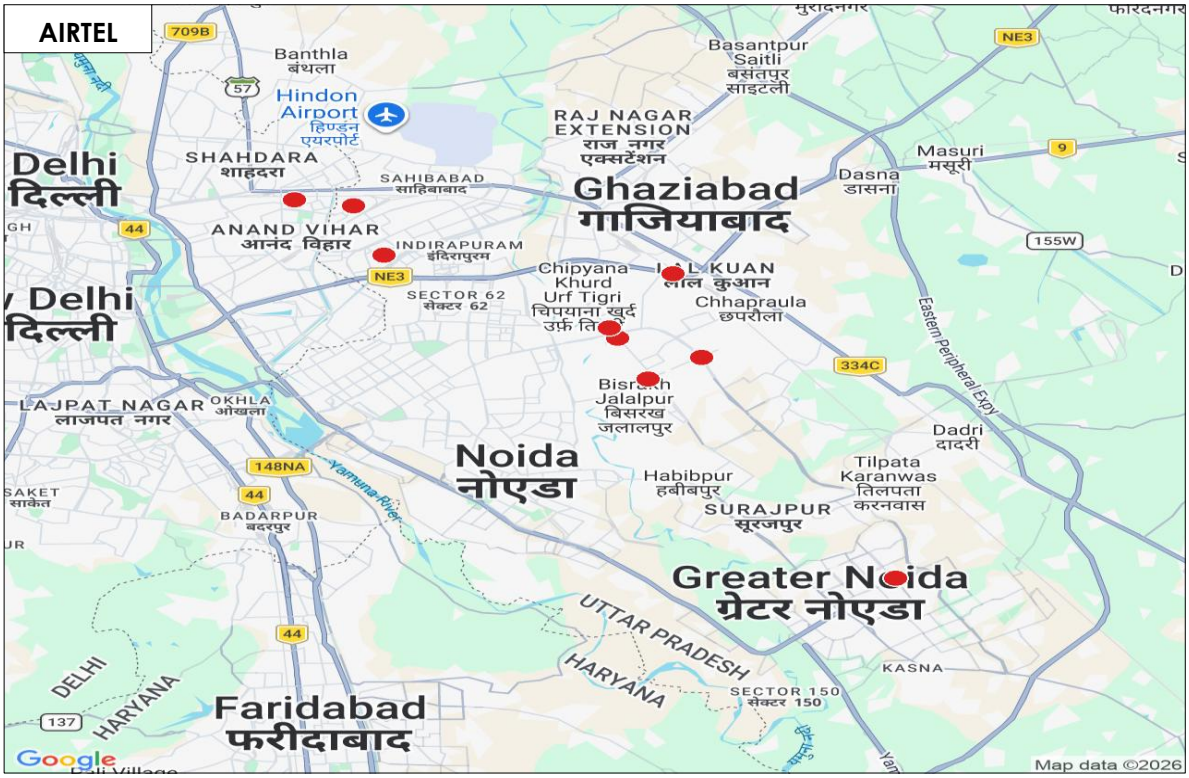


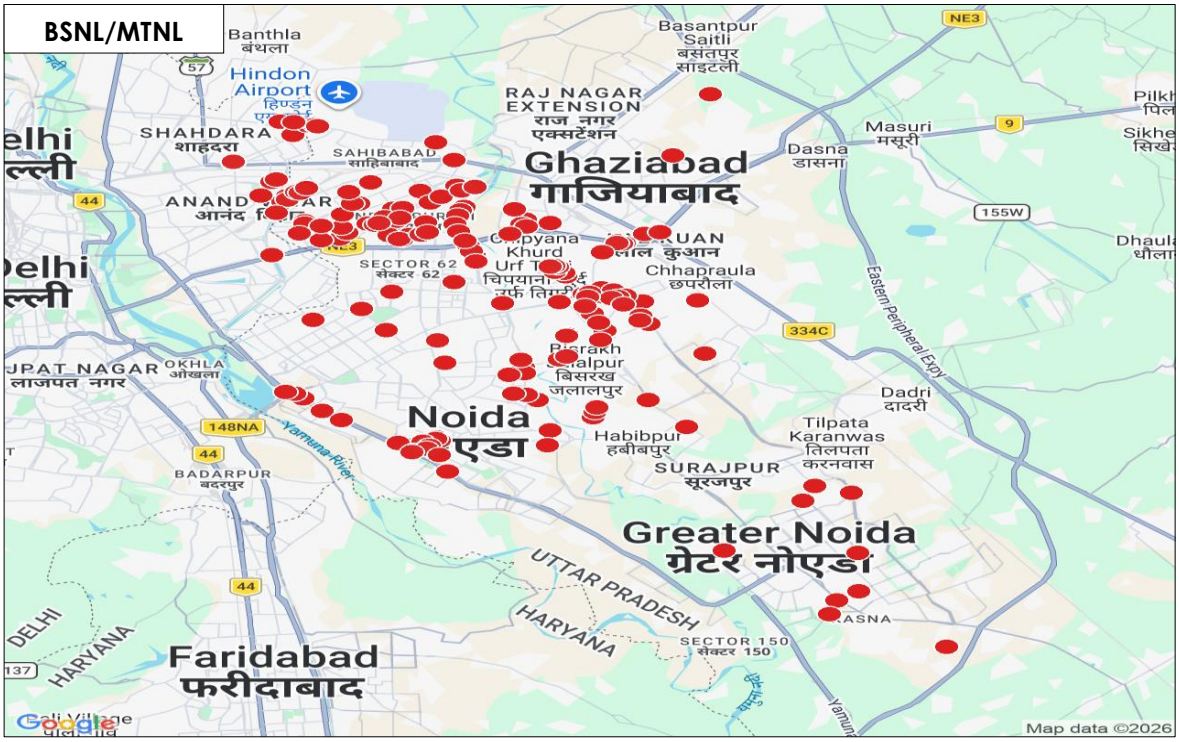
Note: *Plot is based on Dynamic Drive Test results only.*

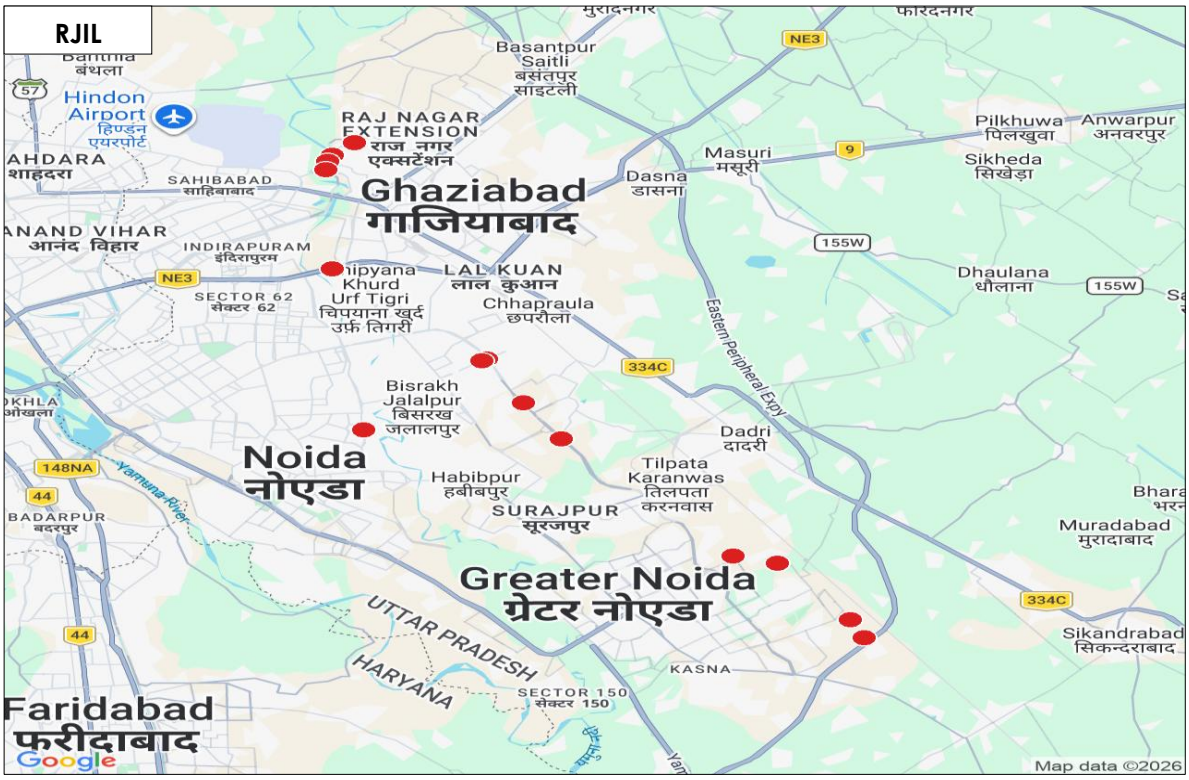
(b) Dropped Calls - The TSP-wise details of dropped calls in auto selection mode (5G/4G/3G/2G).

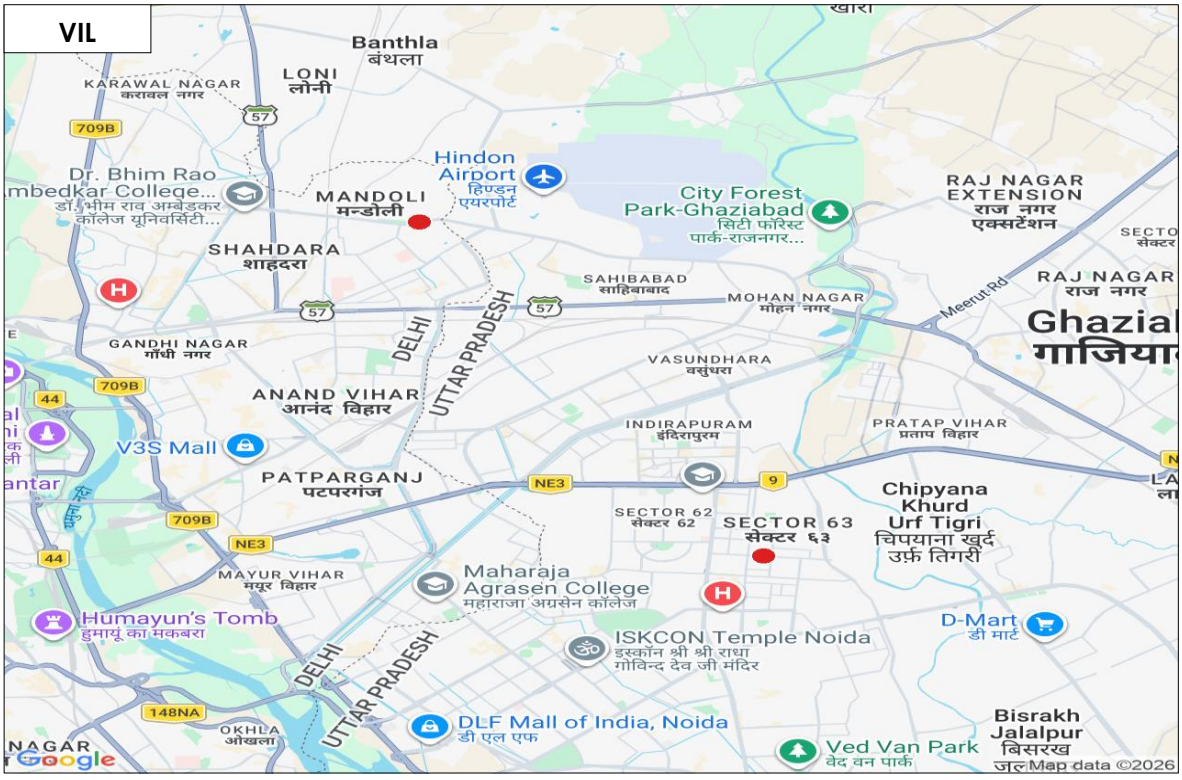
Parameter	AIRTEL	BSNL/ MTNL	RJIL	VIL
Number of successful Calls Established	1139	1071	1146	1158
Number of dropped Calls	9	173	14	2

Locations of Dropped Calls







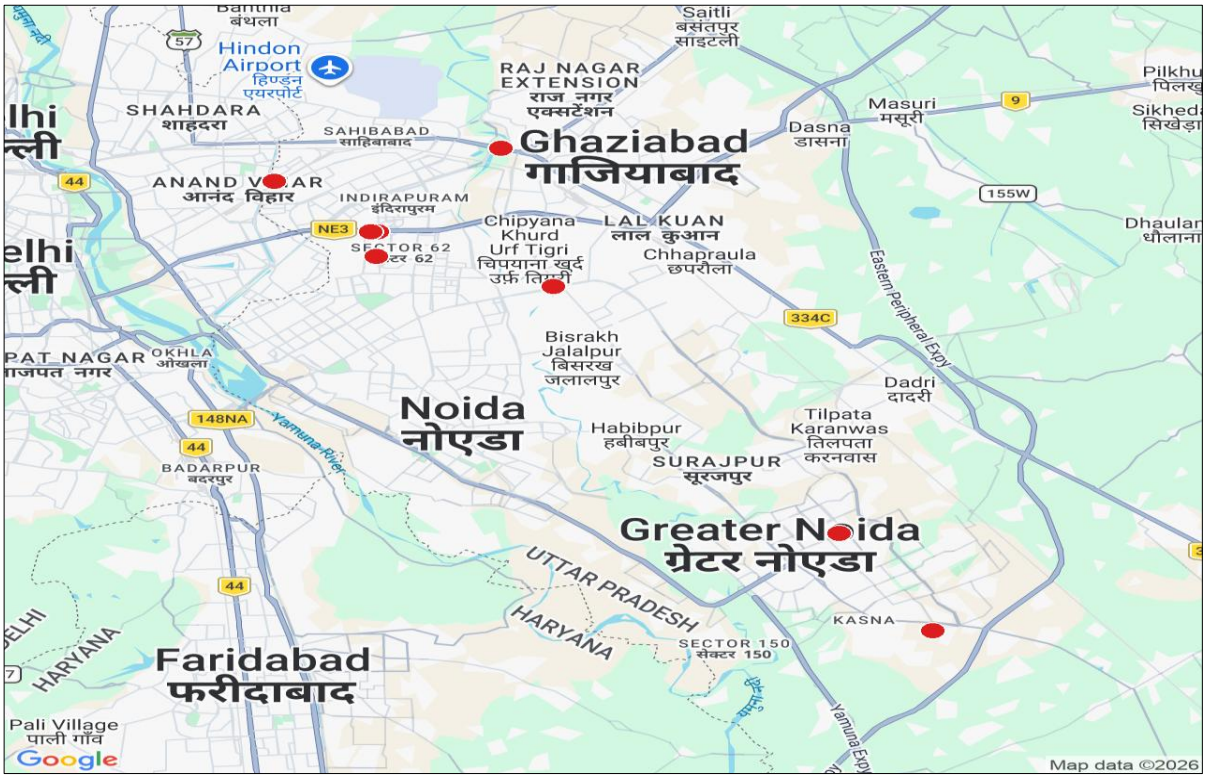


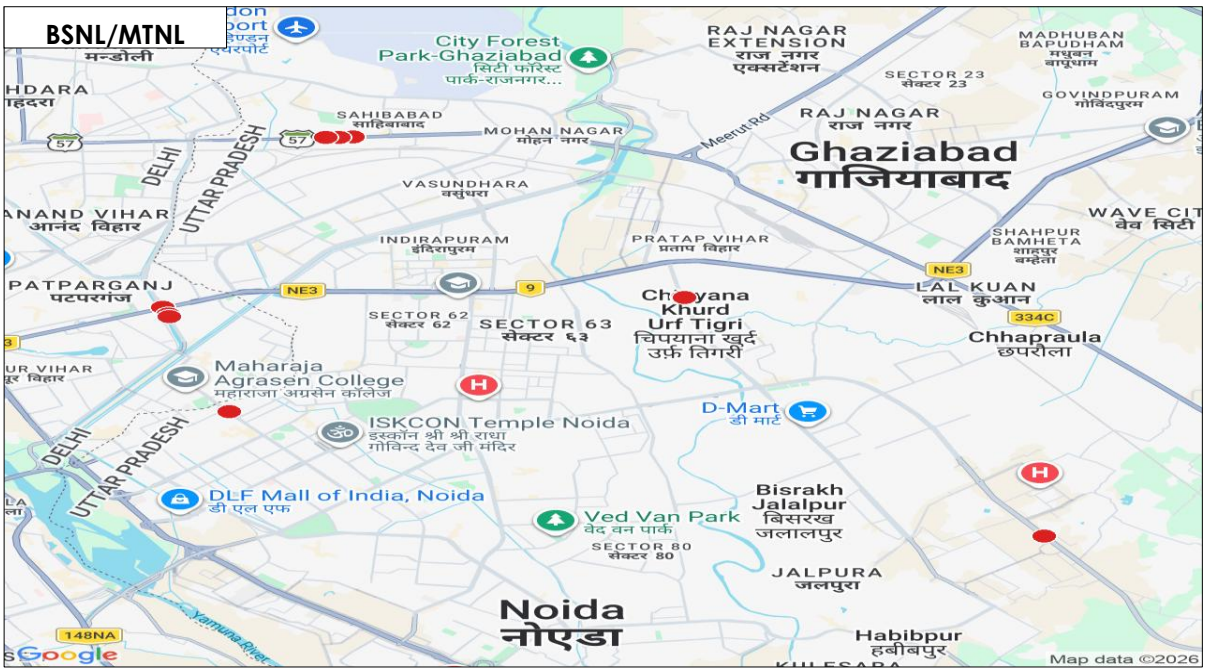
Note: *Dropped calls locations are shown in red colour, and which can be clicked to know the exact location (latitude and longitude) on the map.*

(c) Call Silence Instance - The TSP-wise details of Call silence instance in Auto-selection mode (5G/4G).

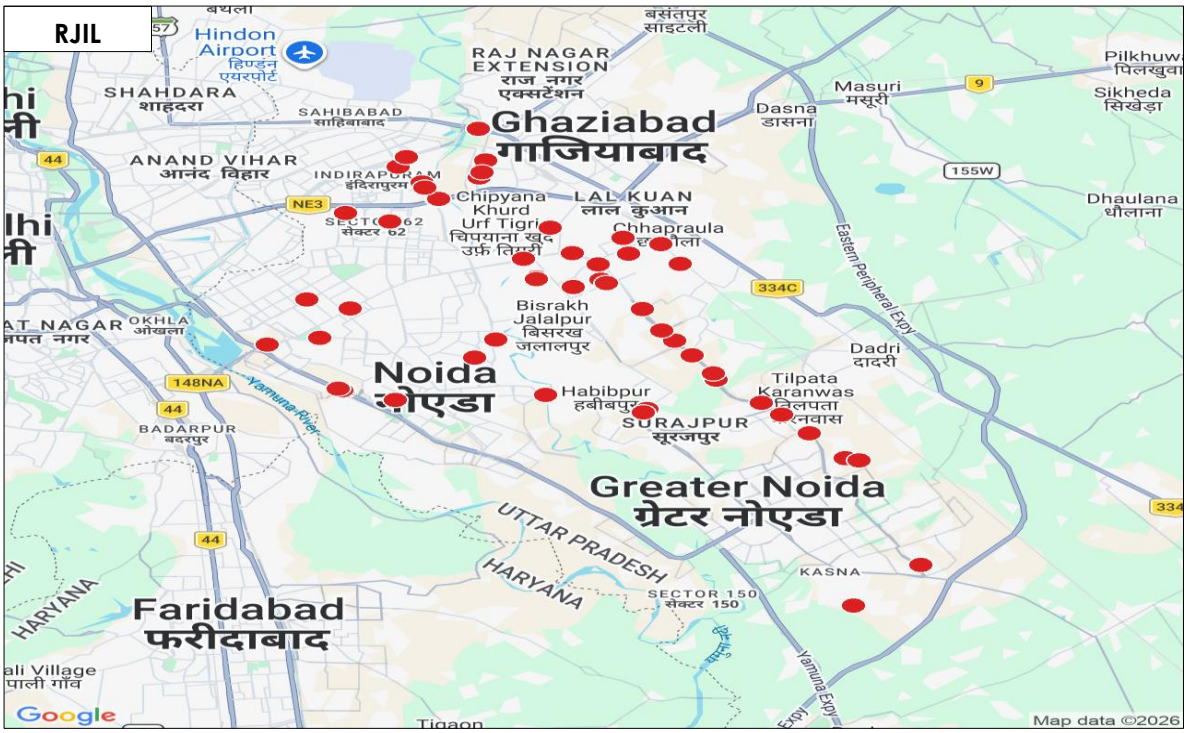
Parameter	AIRTEL	BSNL/ MTNL	RJIL	VIL
Call Established (within service provider network)	1086	878	1086	1107
Number of silences calls for >3 Sec	7	7	45	4
Total number of silence instances for >3 Sec	8	10	54	4

Locations of Call Silence Instance

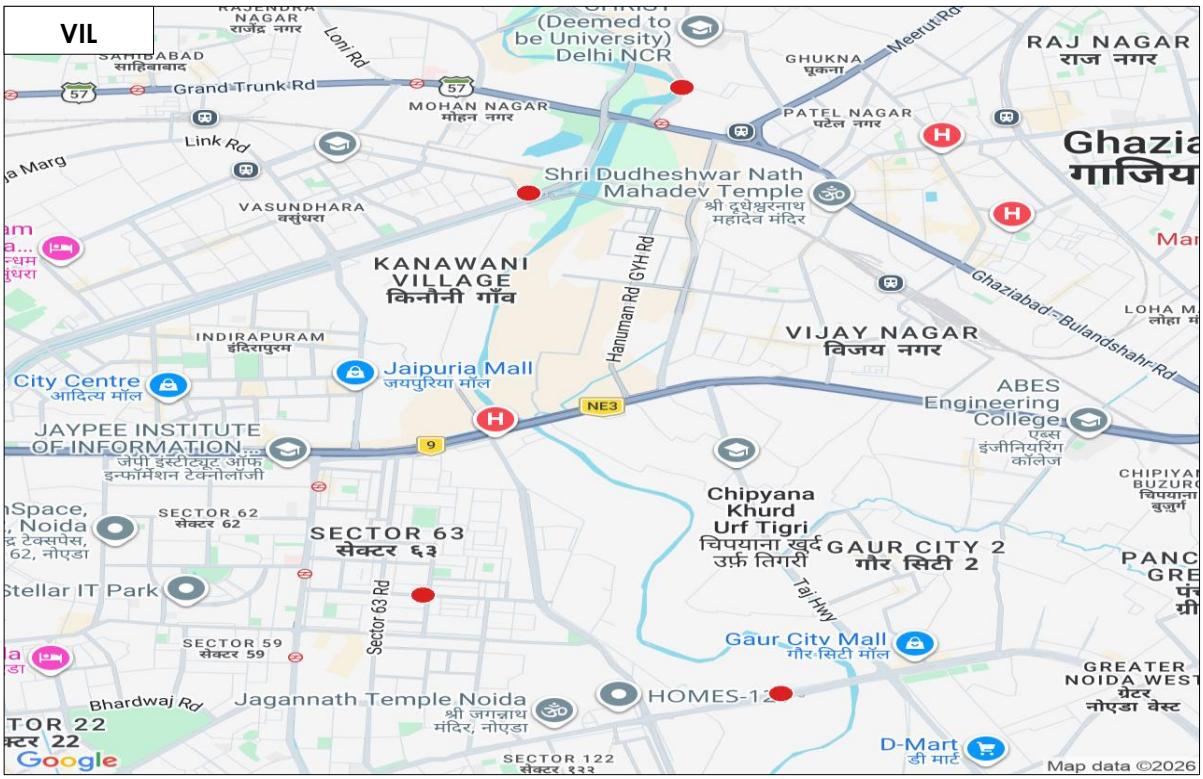




RJIL



VIL



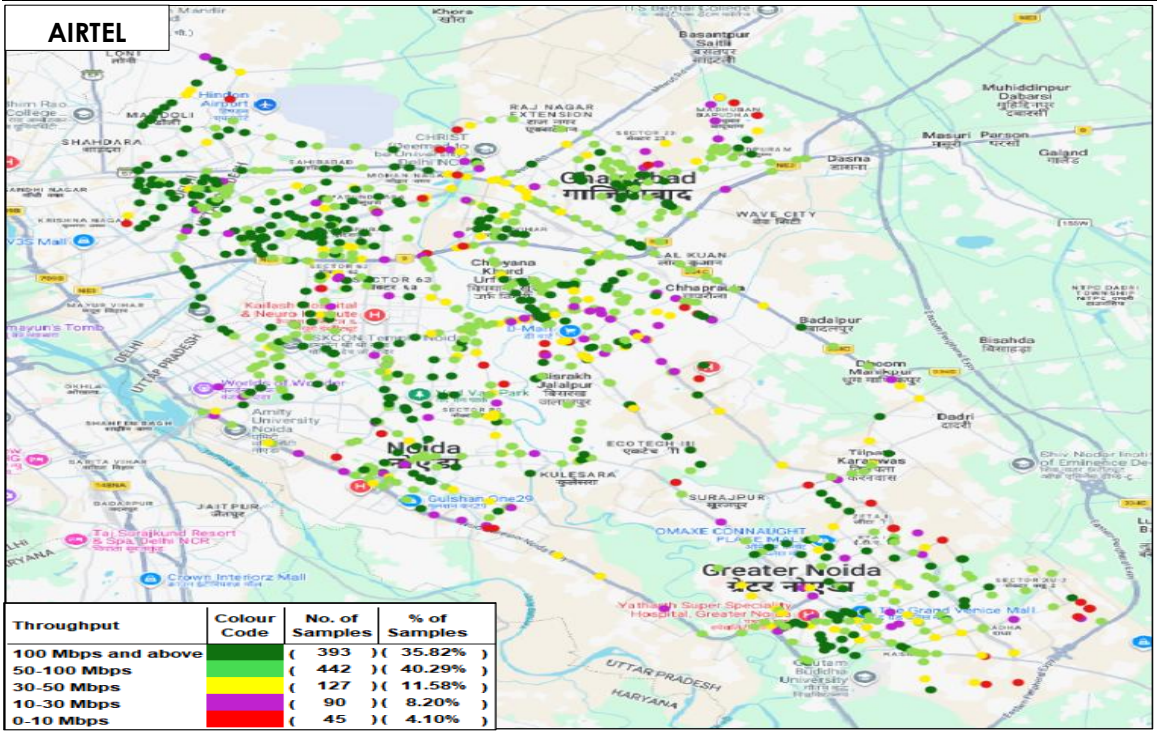
Note: *Call silence instances are shown in red colour, and which can be clicked to know the exact location (latitude and longitude) on the map.*

(d) Data Download and Upload Throughput:

(i) Data Download Throughput: The TSP-wise details of **Average Download (DL) throughput** against declared typical DL Throughput for month, in Auto-selection mode (5G/4G/3G/2G).

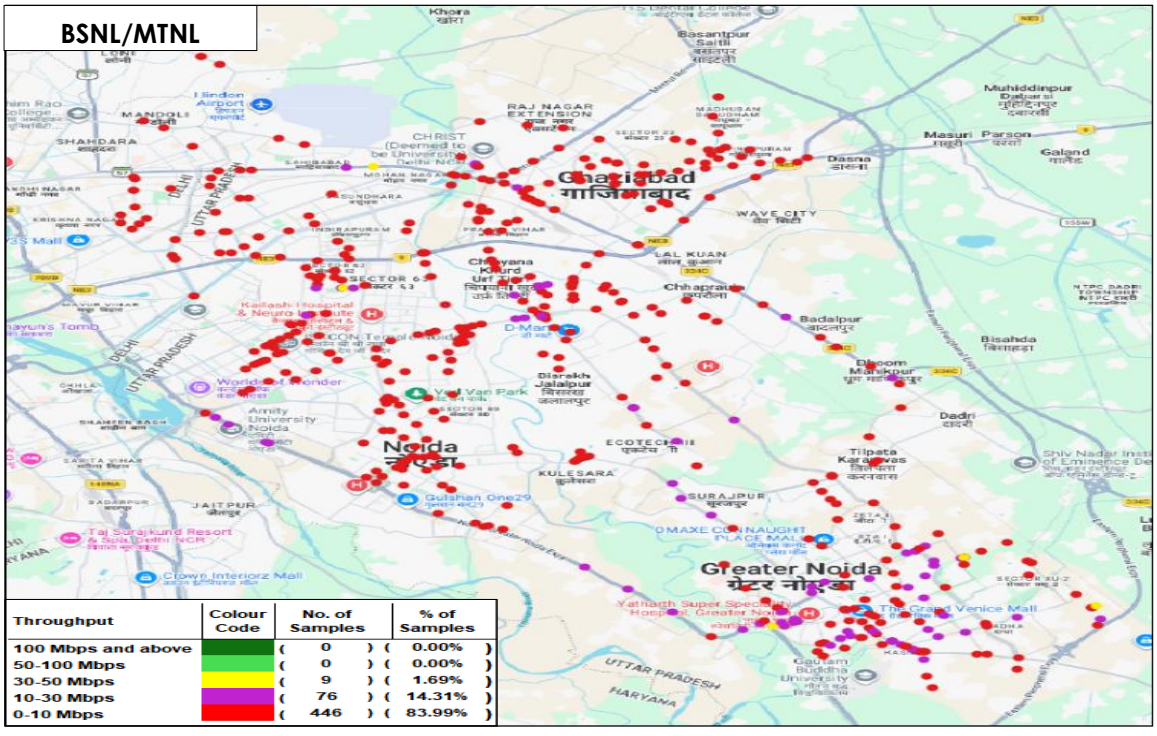
Parameter	Measured in	AIRTEL (upto 5G)	BSNL/ MTNL (upto 4G)	RJIL (upto 5G)	VIL (upto 5G)
Typical Download Throughput declared by TSP	(Mbits/s)	23.00	8.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	114.38	5.49	248.50	94.30

AIRTEL



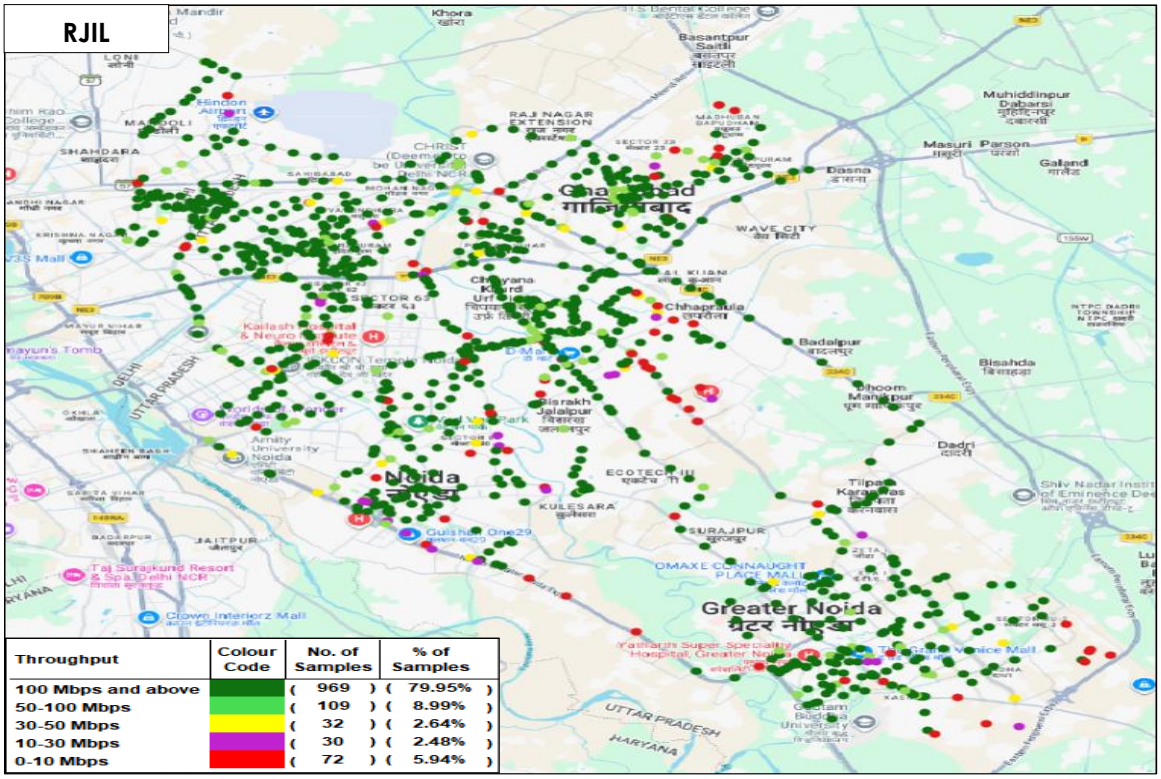
Throughput	Colour Code	No. of Samples	% of Samples
100 Mbps and above		393	35.82%
50-100 Mbps		442	40.29%
30-50 Mbps		127	11.58%
10-30 Mbps		90	8.20%
0-10 Mbps		45	4.10%

BSNL/MTNL



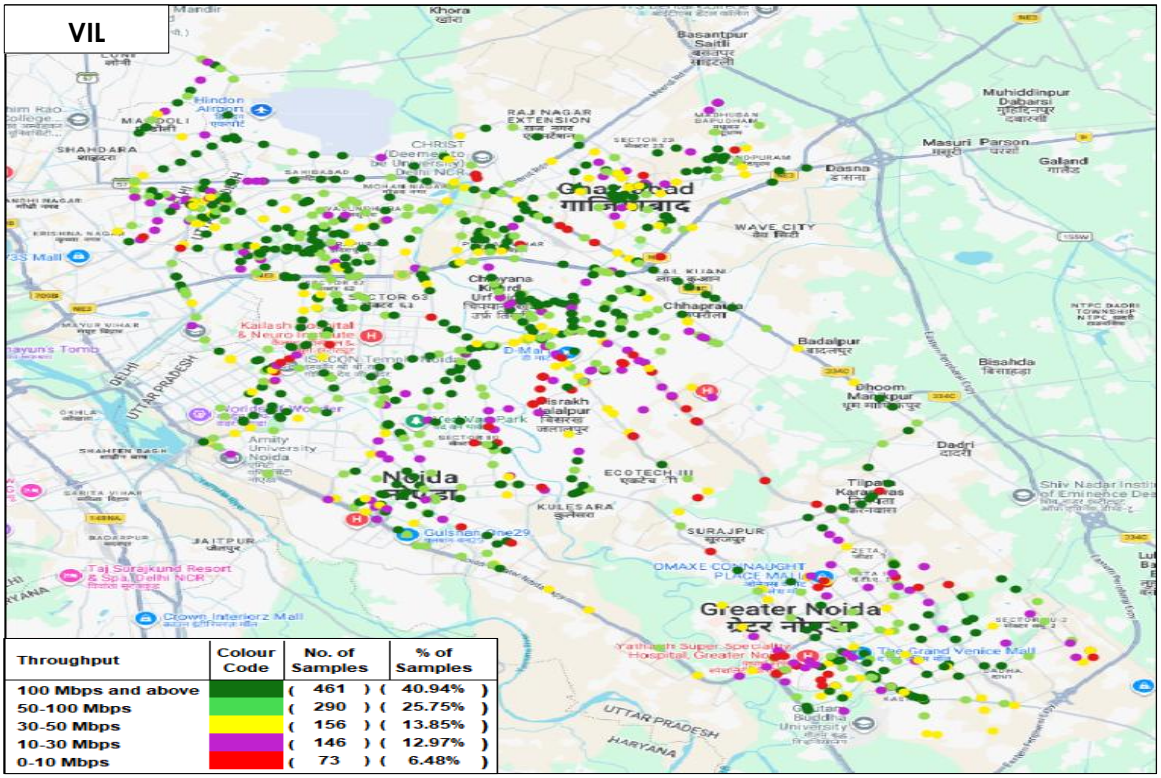
Throughput	Colour Code	No. of Samples	% of Samples
100 Mbps and above		0	0.00%
50-100 Mbps		0	0.00%
30-50 Mbps		9	1.69%
10-30 Mbps		76	14.31%
0-10 Mbps		446	83.99%

RJIL



Throughput	Colour Code	No. of Samples	% of Samples
100 Mbps and above		969	79.95%
50-100 Mbps		109	8.99%
30-50 Mbps		32	2.64%
10-30 Mbps		30	2.48%
0-10 Mbps		72	5.94%

VIL

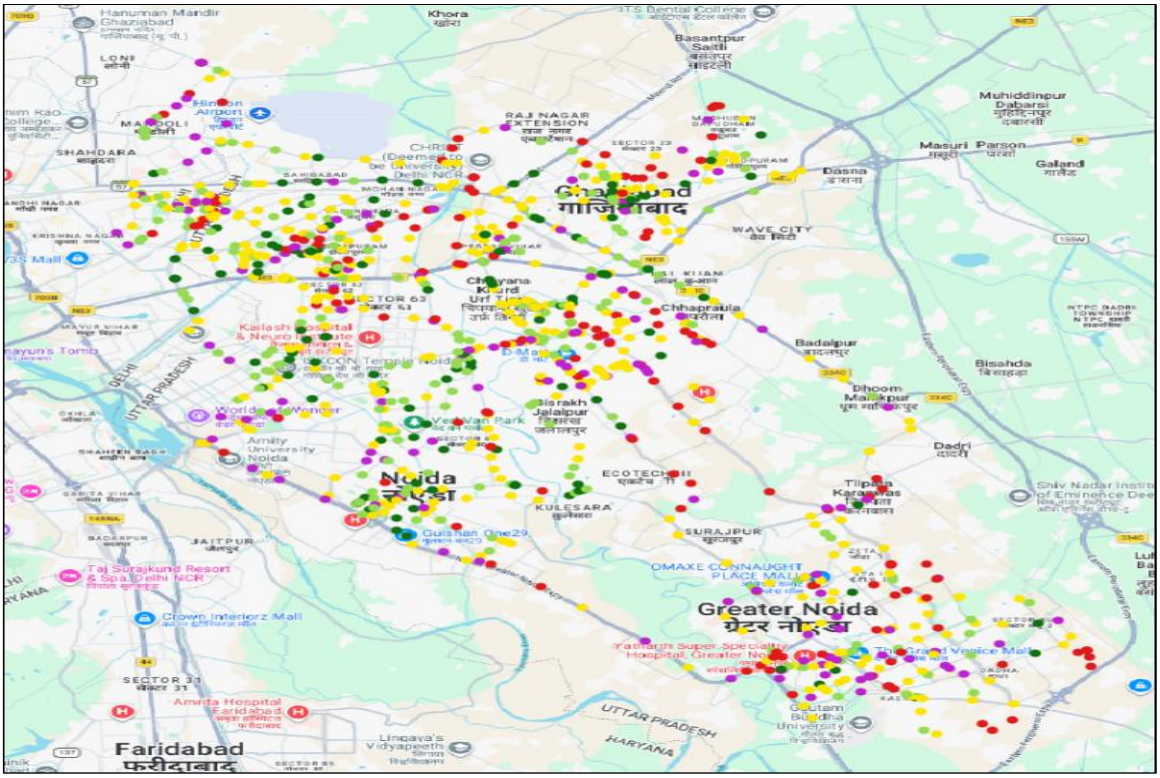


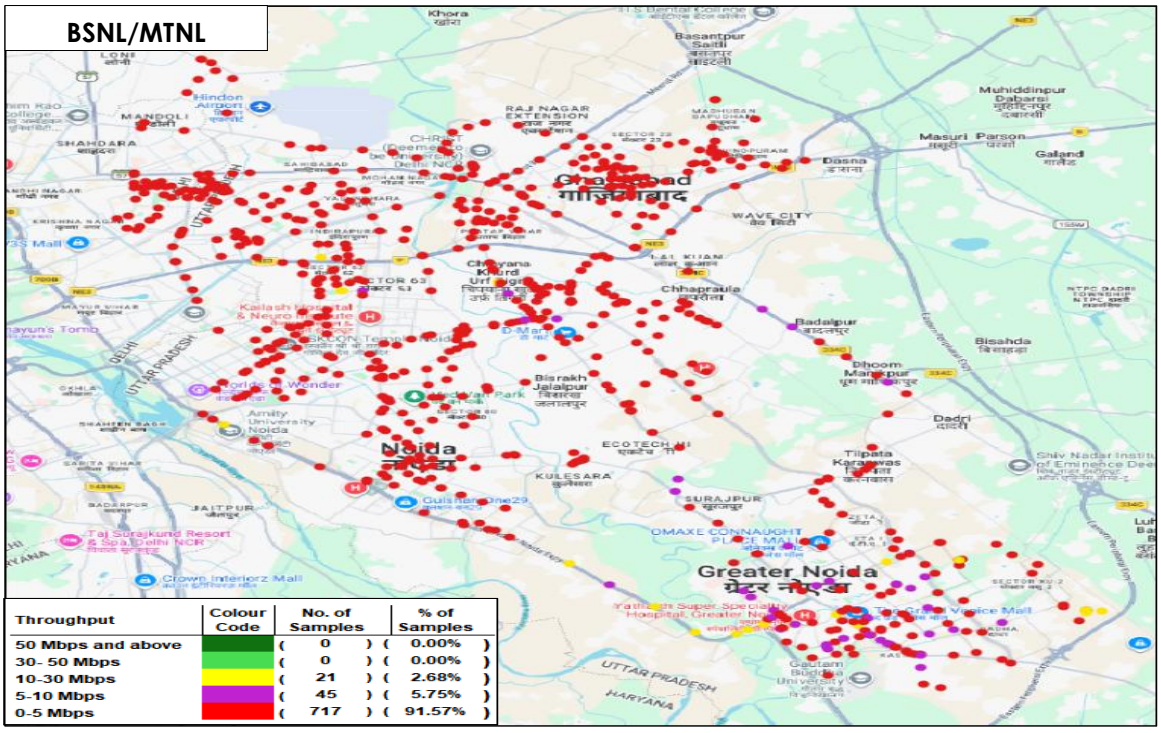
Throughput	Colour Code	No. of Samples	% of Samples
100 Mbps and above		461	40.94%
50-100 Mbps		290	25.75%
30-50 Mbps		156	13.85%
10-30 Mbps		146	12.97%
0-10 Mbps		73	6.48%

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

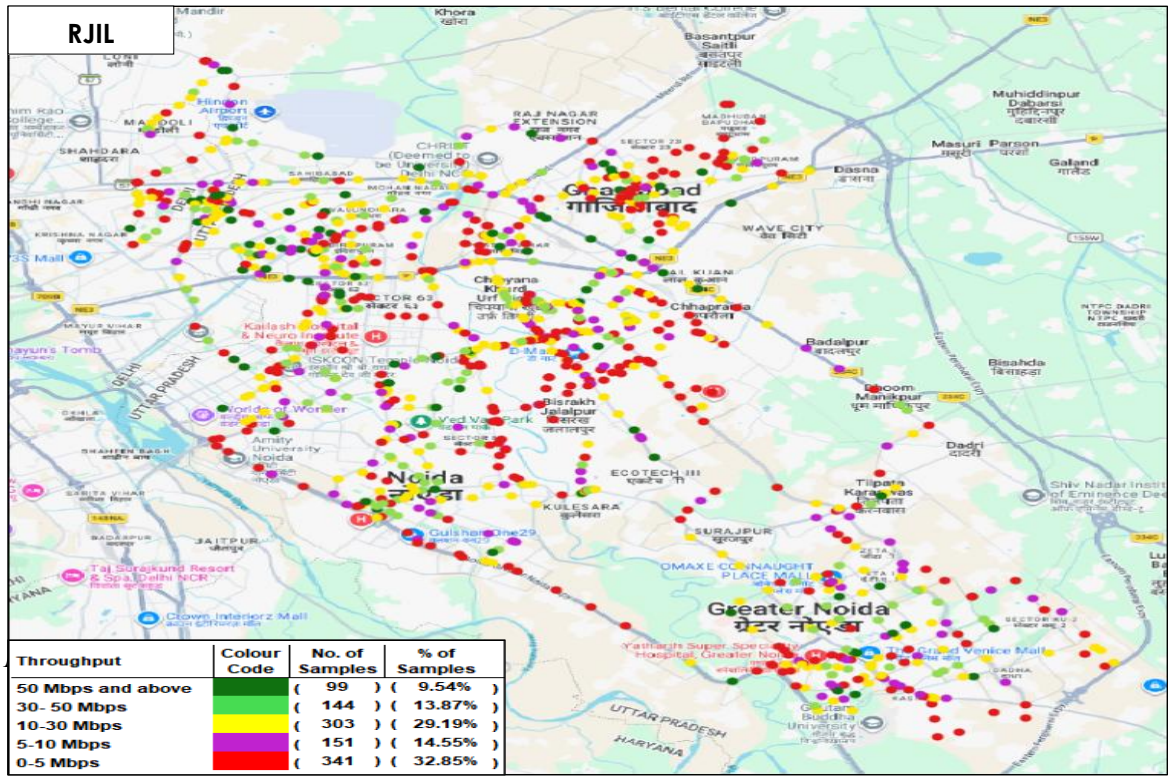
(ii) Data Upload Throughput: The TSP-wise details of **Average Upload (UL) throughput** against declared typical UL Throughput for month, in Auto-selection mode (5G/4G/3G/2G).

Parameter	Measured in	AIRTEL (upto 5G)	BSNL/ MTNL (upto 4G)	RJIL (upto 5G)	VIL (upto 5G)
Typical Upload Throughput declared by TSP	(Mbits/s)	10.00	1.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	25.11	1.72	18.71	18.92



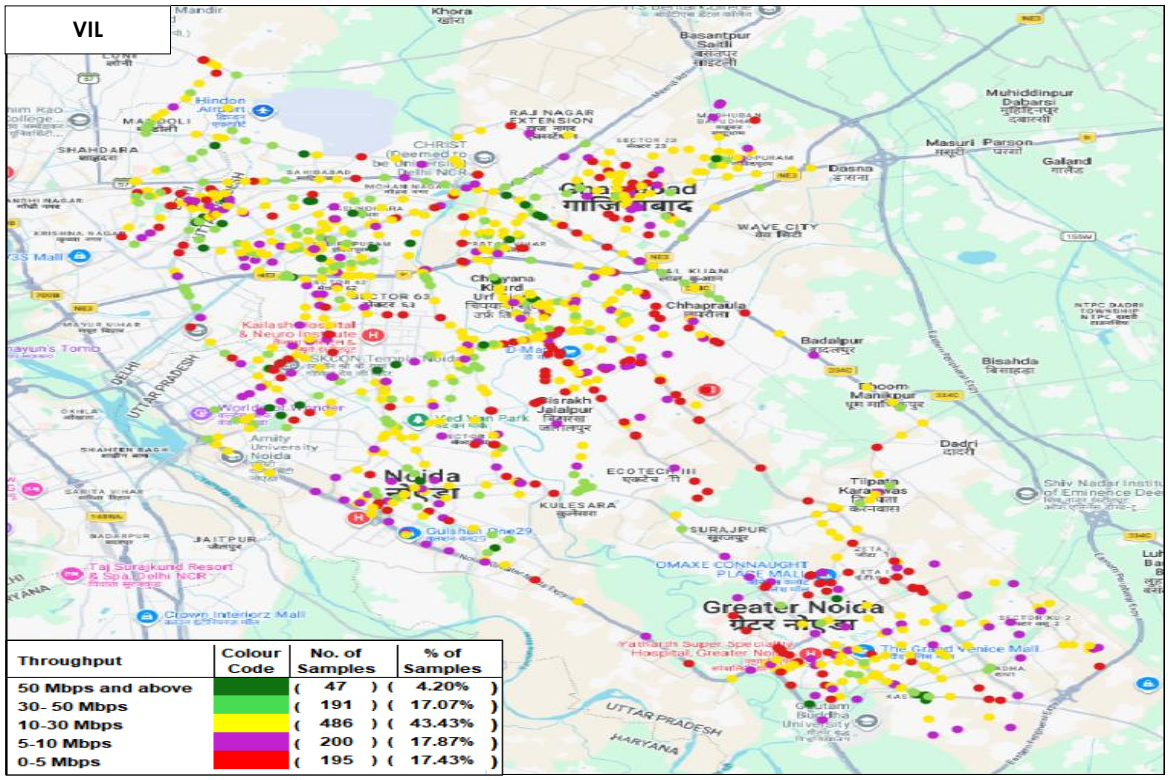


RJIL



Throughput	Colour Code	No. of Samples	% of Samples
50 Mbps and above		(99)	(9.54%)
30- 50 Mbps		(144)	(13.87%)
10-30 Mbps		(303)	(29.19%)
5-10 Mbps		(151)	(14.55%)
0-5 Mbps		(341)	(32.85%)

VIL



Throughput	Colour Code	No. of Samples	% of Samples
50 Mbps and above		(47)	(4.20%)
30- 50 Mbps		(191)	(17.07%)
10-30 Mbps		(486)	(43.43%)
5-10 Mbps		(200)	(17.87%)
0-5 Mbps		(195)	(17.43%)

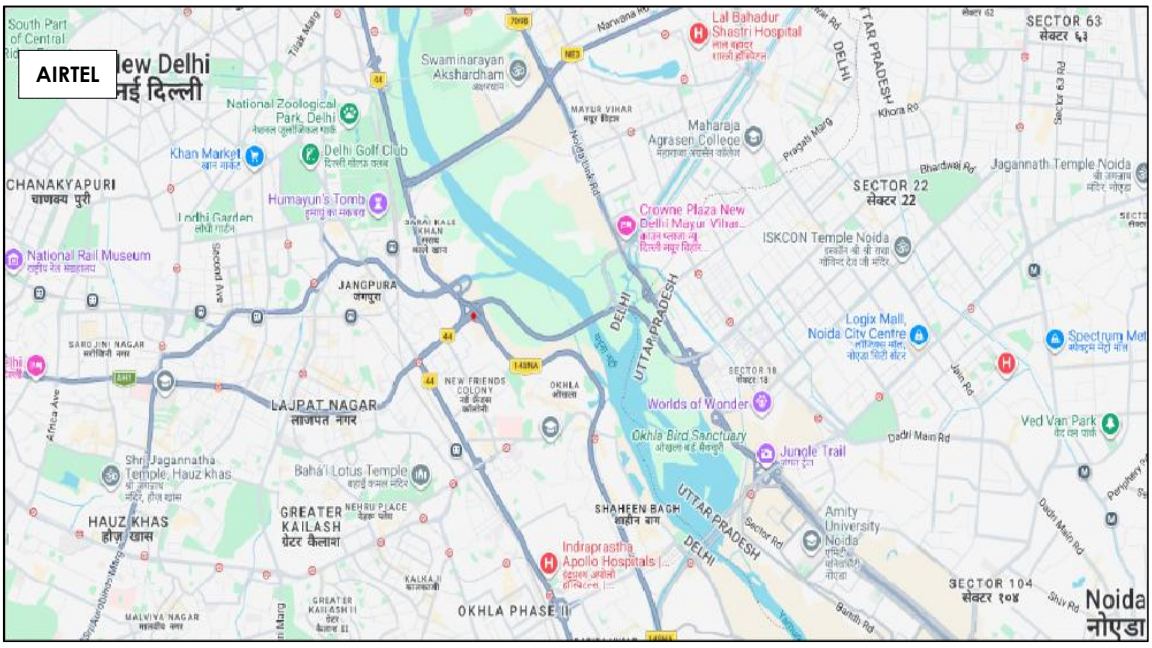
Annexure-II

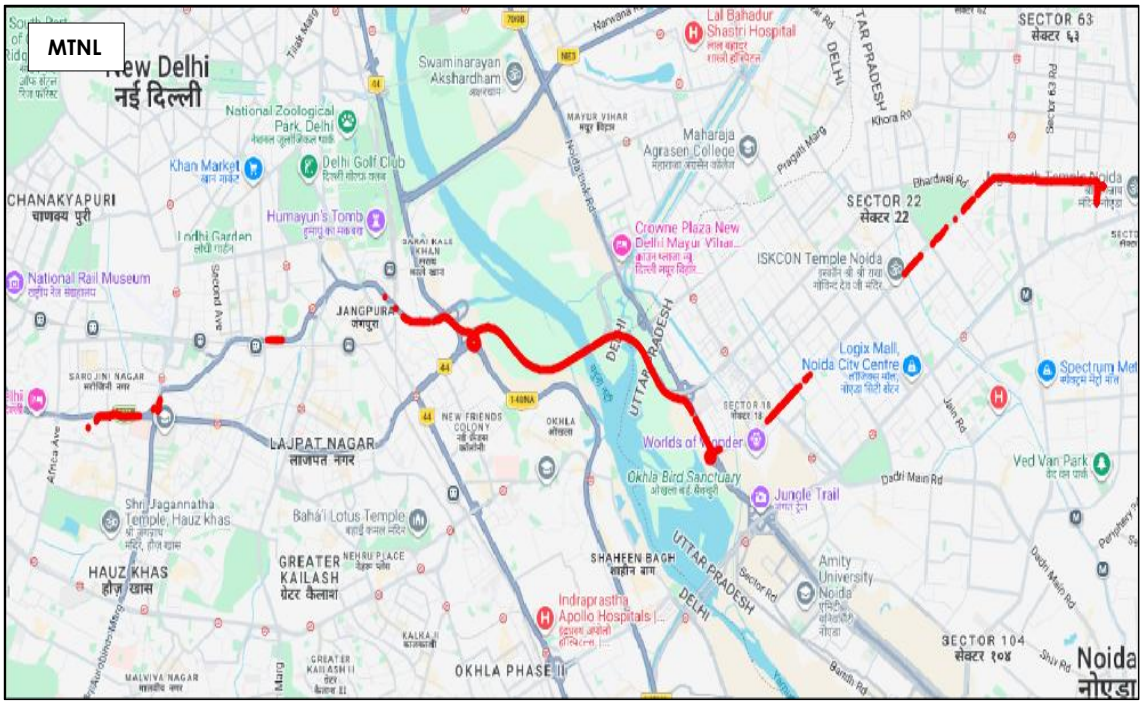
2. City Drive: Noida Sector 121 to World Trade Centre

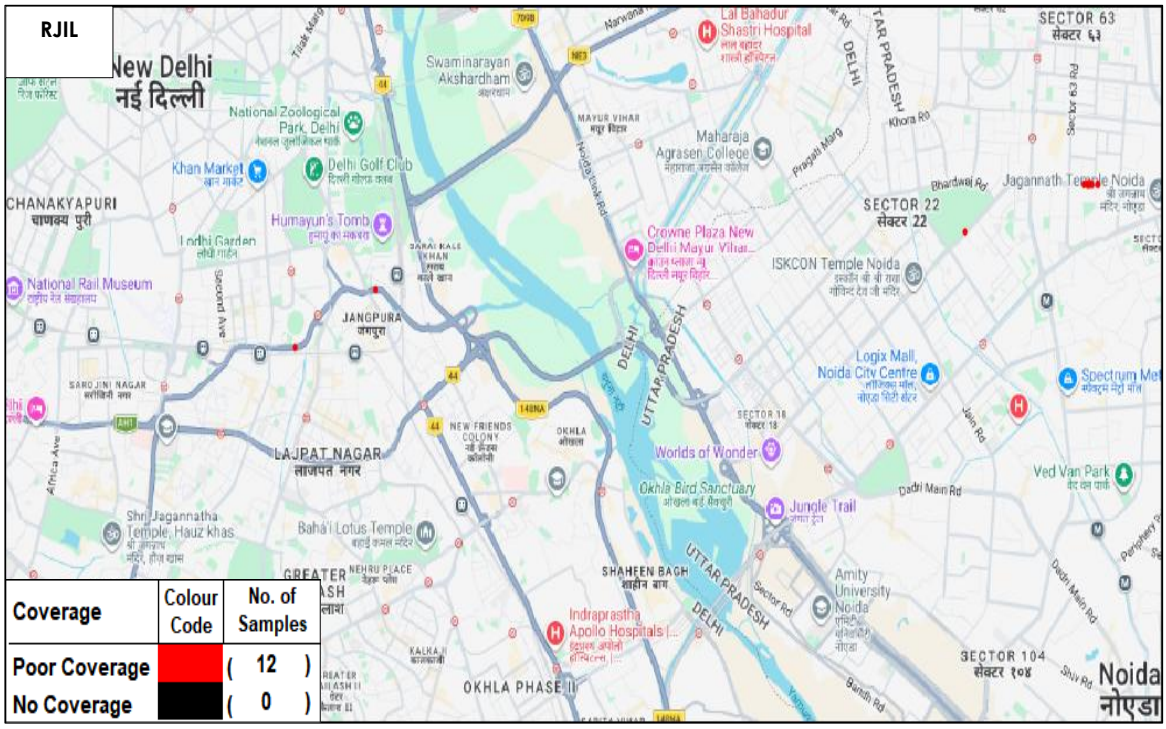
(a) Coverage Gap – The signal strength observed during voice testing on the drive test route in auto-selection mode (5G/4G/3G/2G).

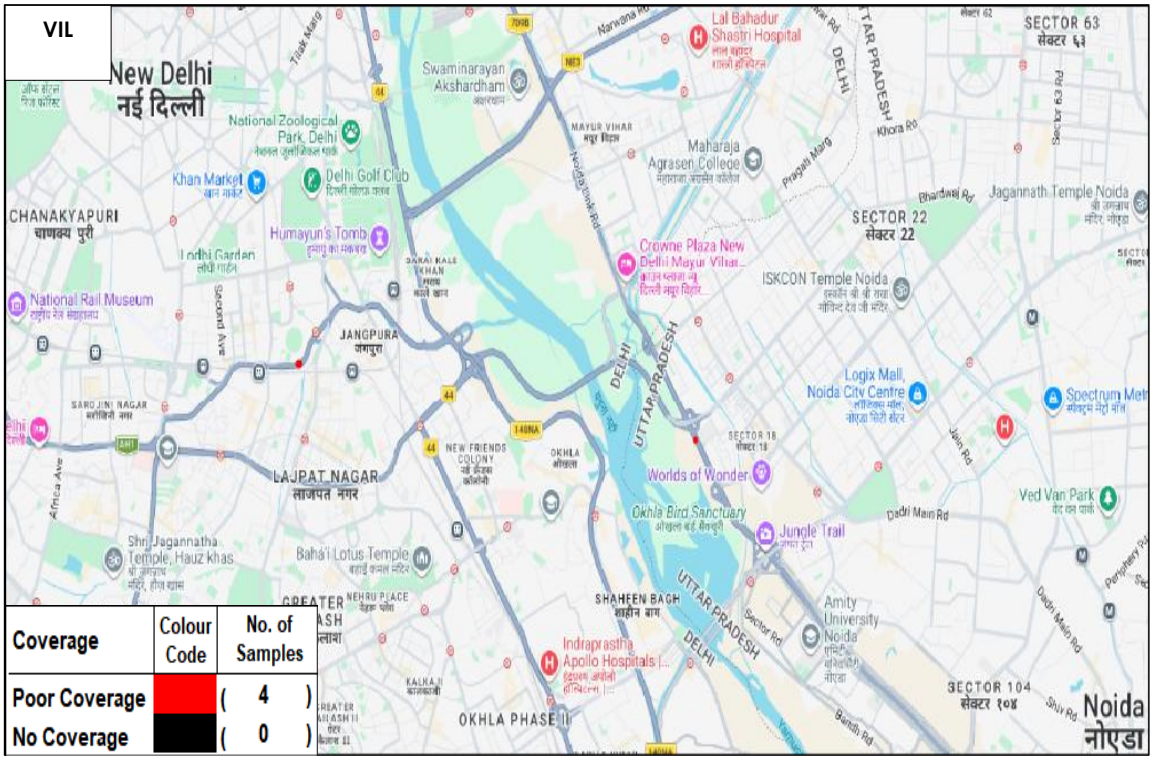
Parameter	AIRTEL	MTNL	RJIL	VIL
Total Number of Samples captured on Drive test route	2793	2743	2849	2973
Number of Samples having poor signal strength	1	1646	12	4
Number of Samples having limited service (No Coverage)	0	0	0	0

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).

Parameter	AIRTEL	MTNL	RJIL	VIL
Number of successful Calls Established	25	23	26	26
Number of dropped Calls	0	6	0	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).

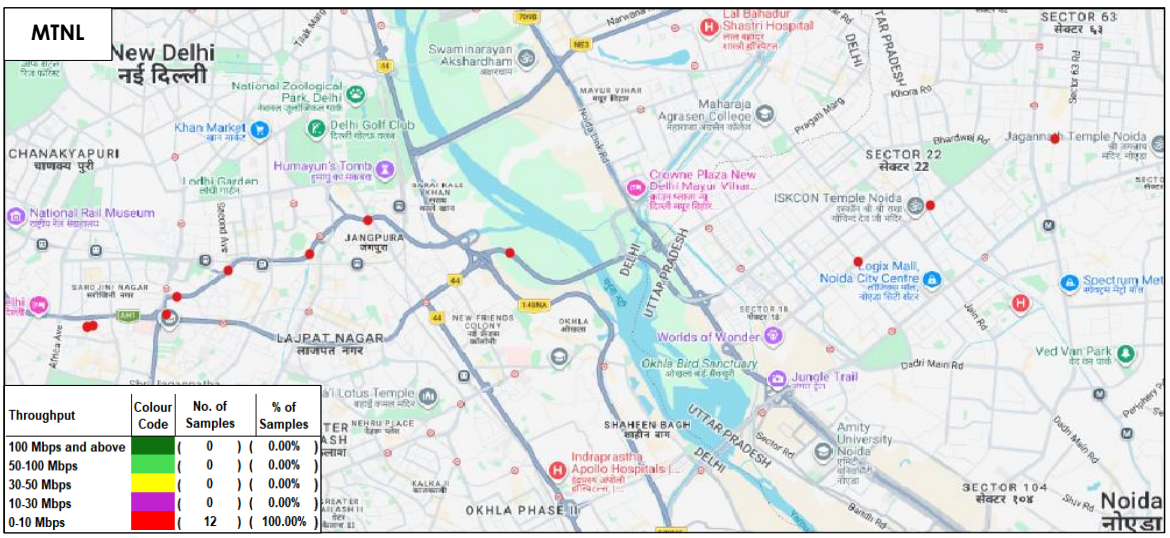
Parameter	AIRTEL	MTNL	RJIL	VIL
Call Established (within service provider network)	24	17	21	24
Number of silences calls for >3 Sec	0	NA	0	0
Total number of silence instances for >3 Sec	0	NA	0	0

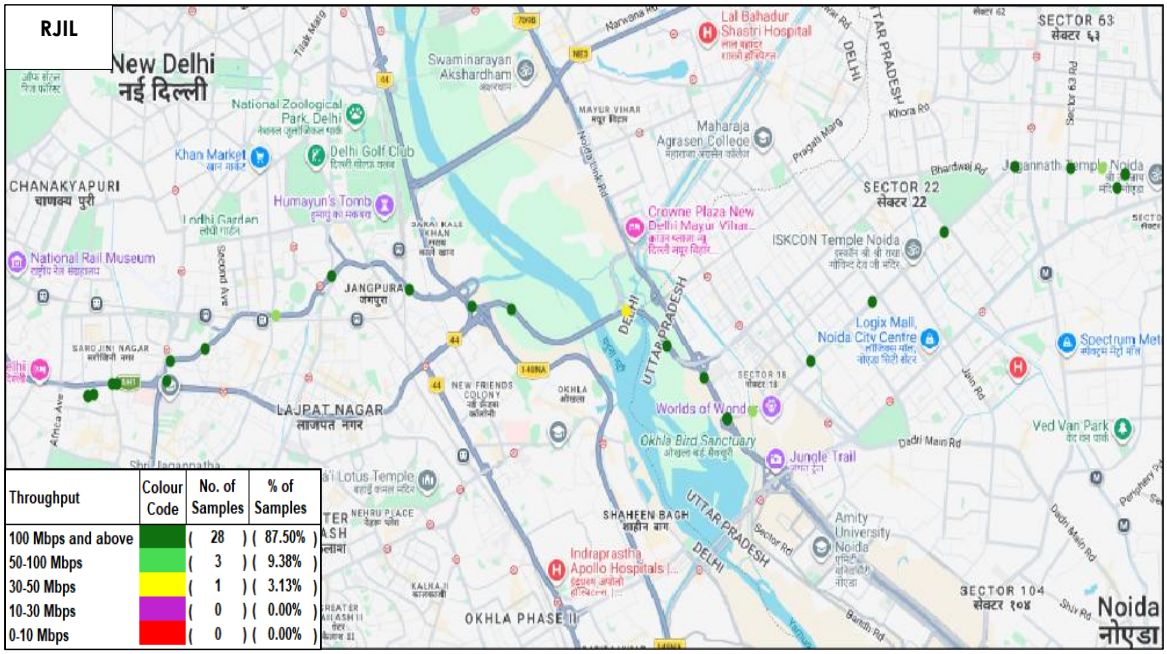
(d) Data Download and Upload Throughput:

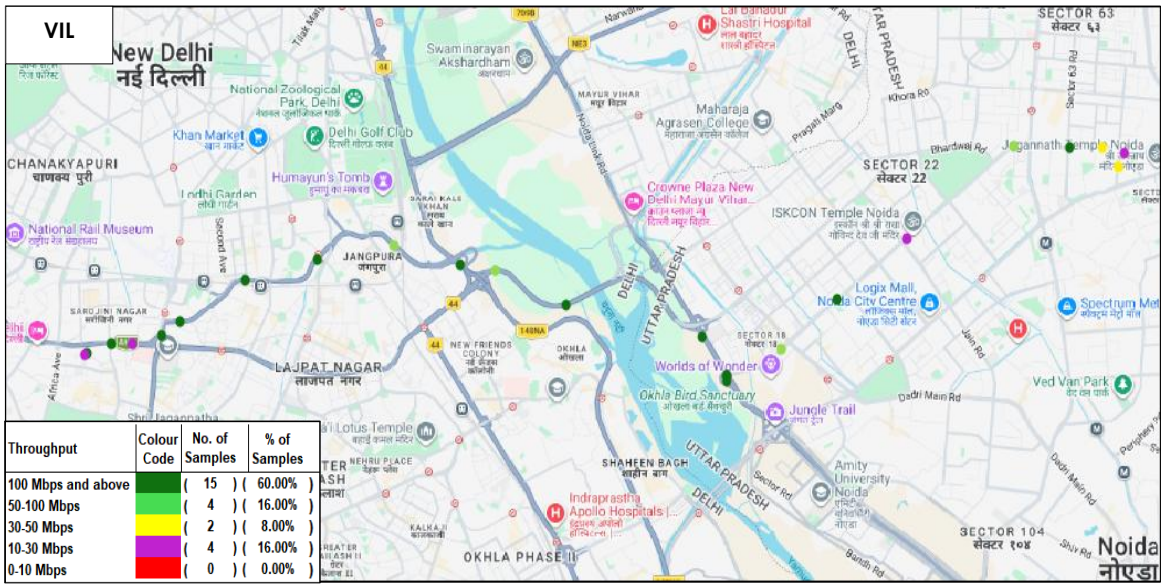
(i) Data Download Throughput: The TSP-wise details of **Average Download (DL) throughput** against declared typical DL Throughput for month, in Auto-selection mode (5G/4G/3G/2G).

Parameter	Measured in	AIRTEL (upto 5G)	MTNL (upto 3G)	RJIL (upto 5G)	VIL (upto 5G)
Typical Download Throughput declared by TSP	(Mbits/s)	23.00	8.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	175.41	3.39	346.84	129.86





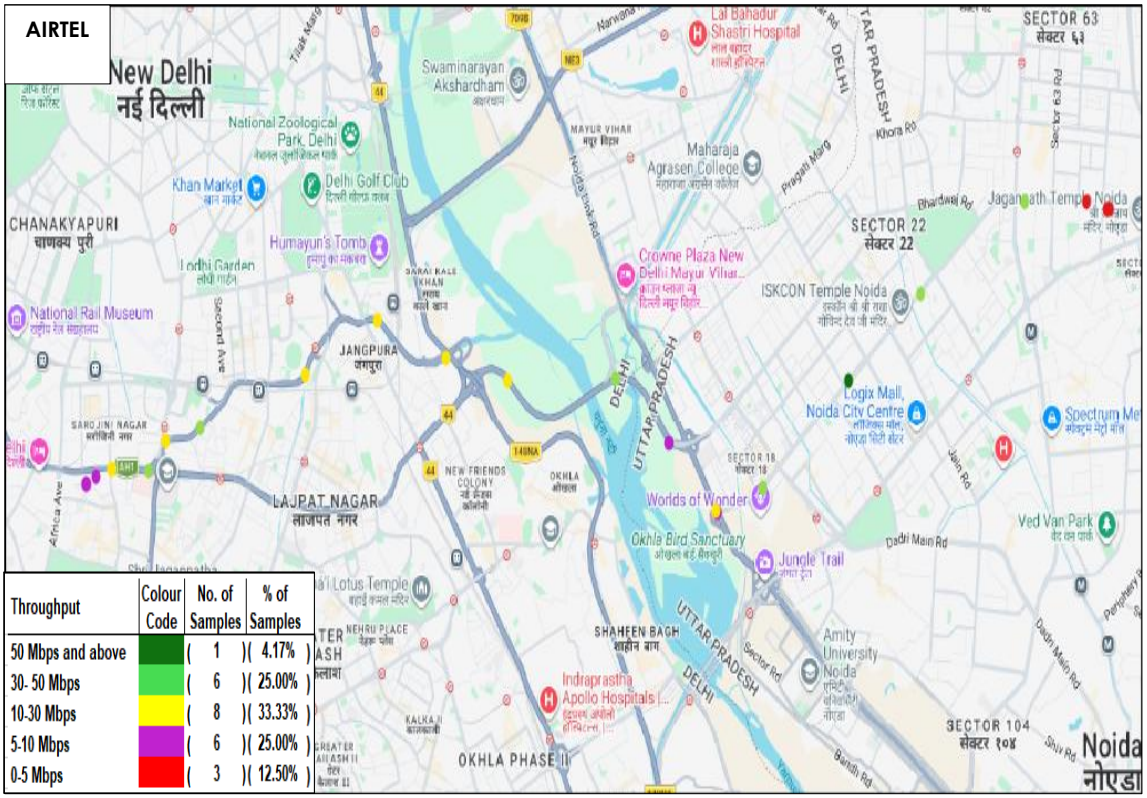




Note: *Plot is based on Dynamic Drive Test results only.*

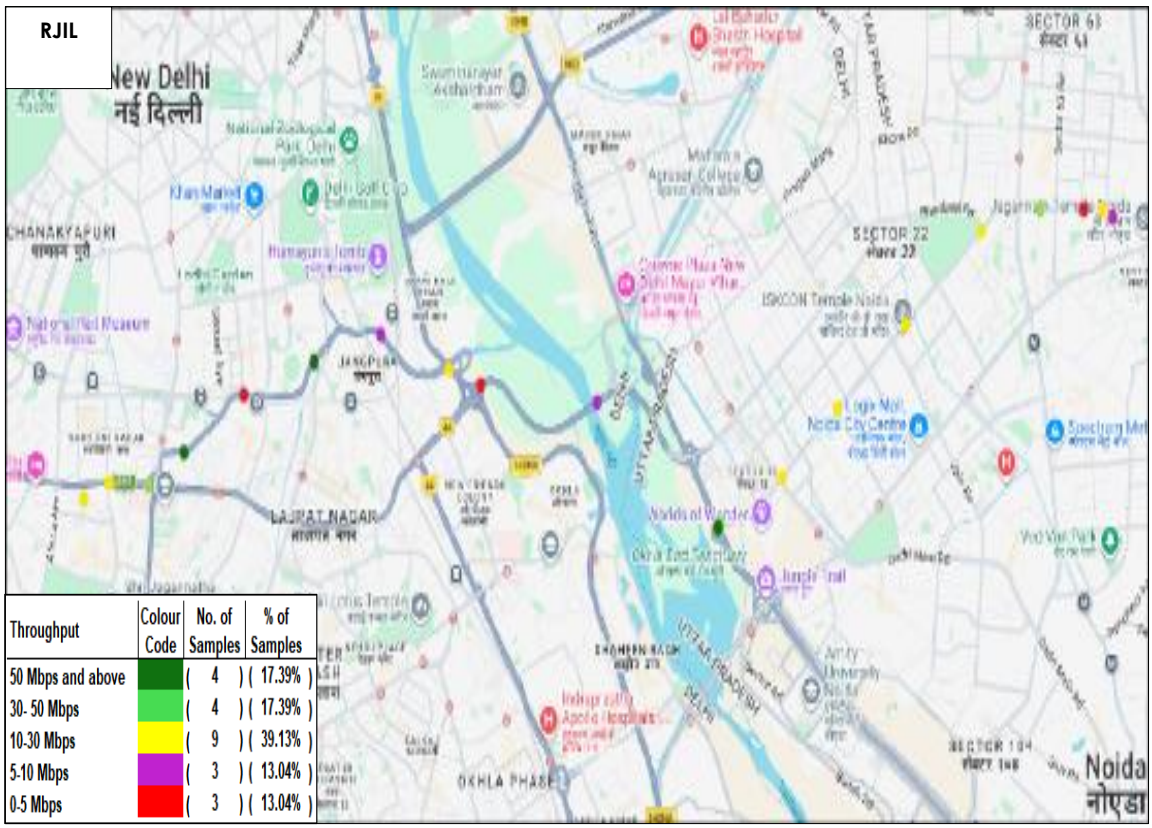
(ii) Data Upload Throughput: The TSP-wise details of **Average Upload (UL) throughput** against declared typical UL Throughput for month, in Auto-selection mode (5G/4G/3G/2G).

Parameter	Measured in	AIRTEL (upto 5G)	MTNL (upto 3G)	RJIL (upto 5G)	VIL (upto 5G)
Typical Upload Throughput declared by TSP	(Mbits/s)	10.00	1.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	19.29	1.02	27.94	29.08

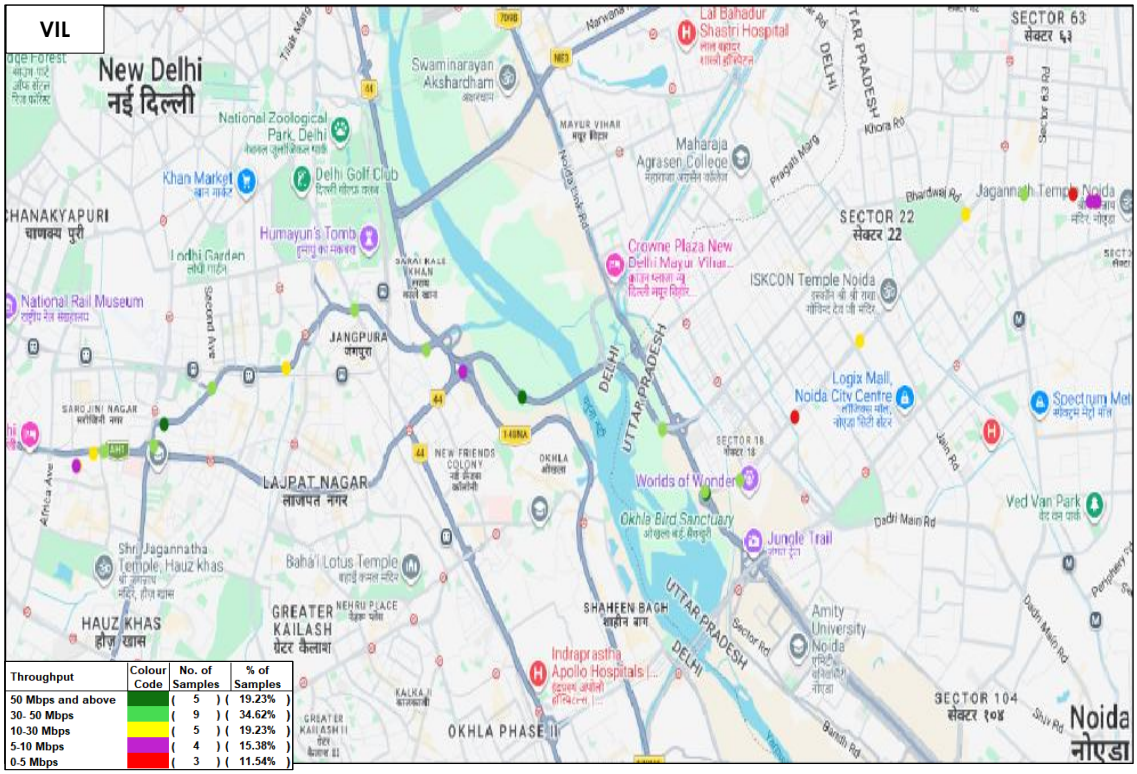

AIRTEL
New Delhi
नई दिल्ली
CHANAKYAPURI
चाणक्य पुरी
Khan Market
Delhi Golf Club
National Zoological Park, Delhi
Humayun's Tomb
Lodhi Garden
National Rail Museum
JANGPURA
जंगपुरा
SAROJINI NAGAR
सरोजिनी नगर
LAJPAT NAGAR
लाजपत नगर
NEW FRIENDS COLONY
OKHLA
ओखला
Swaminarayan Akshardham
Lal Bahadur Shastri Hospital
MAYUR VIHAR
मयूर विहार
Maharaja Agrasen College
Crowne Plaza New Delhi Mayur Vihar
SECTOR 22
सेक्टर 22
ISKCON Temple Noida
Jagannath Temple Noida
SECTOR 63
सेक्टर ६३
Logix Mall, Noida City Centre
Spectrum Me
Worlds of Wonder
Okhla Bird Sanctuary
Jungle Trail
Ved Van Park
Amity University Noida
SHAHEEN BAGH
शाहीन बाग
Indraprastha Apollo Hospitals
NEHRU PLACE
SECTOR 104
सेक्टर १०४
OKHLA PHASE II
Noida
नोएडा
DELHI
UTTAR PRADESH
Throughput | Colour Code | No. of Samples | % of Samples
50 Mbps and above | (1) | (4.17%)
30- 50 Mbps | (6) | (25.00%)
10-30 Mbps | (8) | (33.33%)
5-10 Mbps | (6) | (25.00%)
0-5 Mbps | (3) | (12.50%)


New Delhi
नई दिल्ली
CHANAKYAPURI
चाणक्य पुरी
LAJPAT NAGAR
लाजपत नगर
HAUZ KHAS
हौज खास
GREATER KAILASH
ग्रेटर कैलाश
OKHLA PHASE II
SECTOR 22
सेक्टर 22
SECTOR 63
सेक्टर ६३
SECTOR 104
सेक्टर १०४
Noida
नोएडा
DELHI
UTTAR PRADESH

RJIL



VIL



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