Information Note to the Press (Press Release No 79/2026)

TELECOM REGULATORY AUTHORITY OF INDIA

www.trai.gov.in

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For Immediate Release

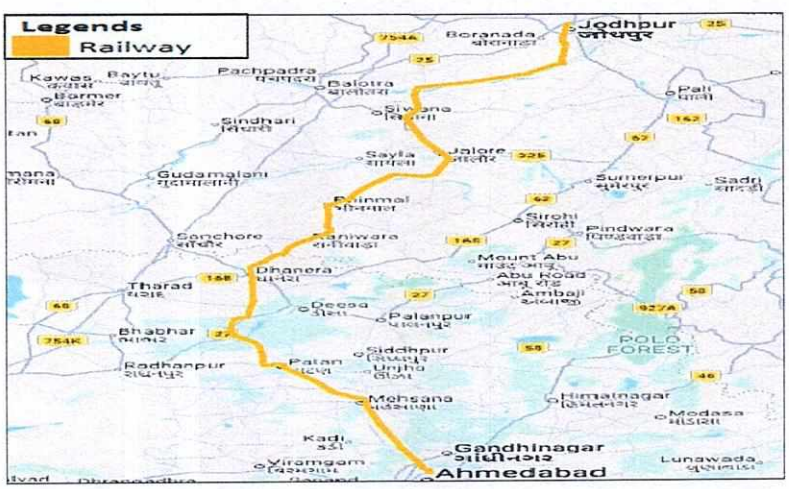
TRAI Assesses Mobile Network Quality on Jodhpur to Ahmedabad Rail Route (Rajasthan & Gujarat LSA)

The Telecom Regulatory Authority of India (TRAI) has released findings of Independent Drive Test (IDT) conducted **on Jodhpur to Ahmedabad Rail Route (Rajasthan & Gujarat 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 from Jodhpur to Ahmedabad Rail Route on 4th May 2026, covering 456.9 KMs (Rajasthan & Gujarat LSA). These tests were conducted under the supervision of the TRAI Regional Office Jaipur. 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 route 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) **Data Servies:** Download/ Upload Throughput, Latency, Jitter, Packet Drop Rate.

6. The overall mobile network performance on Jodhpur to Ahmedabad Rail Route (Rajasthan & Gujarat LSA) 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 **1843**/26319 for **Airtel**, **7368**/23625 for **BSNL**, **685**/26136 for **RJIL** and **5150**/25817 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**/130 for **Airtel**, **15**/122 for **BSNL**, **0**/130 for **RJIL** and **4**/126 for **VIL**. Details of the dropped call locations have been provided in the map **Annexed.**
c) **Data Download and Upload Throughput**:

i) **Data Download performance (Overall)**: Average download speed was observed as **48.53 Mbps** for **Airtel (5G/4G)**, **7.95 Mbps** for **BSNL (4G/3G/2G)**, **89.61 Mbps** for **RJIL (5G/4G)** and **12.71 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 **11.69 Mbps** for **Airtel (5G/4G)**, **3,76 Mbps** for **BSNL (4G/3G/2G)**, **9.06 Mbps** for **RJIL (5G/4G)** and **8.81 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 are as under: -
Railway- Jodhpur to Ahmedabad passing through Bhagat Ki Kothi, Luni Junction, Dundara, Samdari Junction, Mokalsar, Jalor, Modran, Marwar Bhinmal, Raniwara, Dhanera, Bhildi Junction, Patan and Mahesana Junction etc.

8. The findings of this IDT report have been shared with respective TSPs for taking further necessary action at their end, if required. Detailed report of IDT is made available on the TRAI website at www.trai.gov.in. For any clarification or additional information, an email can be sent to Regional office of TRAI at Jaipur on Email id adv.jaipur@trai.gov.in Regional Office of TRAI at Jaipur RO can be contacted on telephone no. **0141-2701919**.

29/6/16

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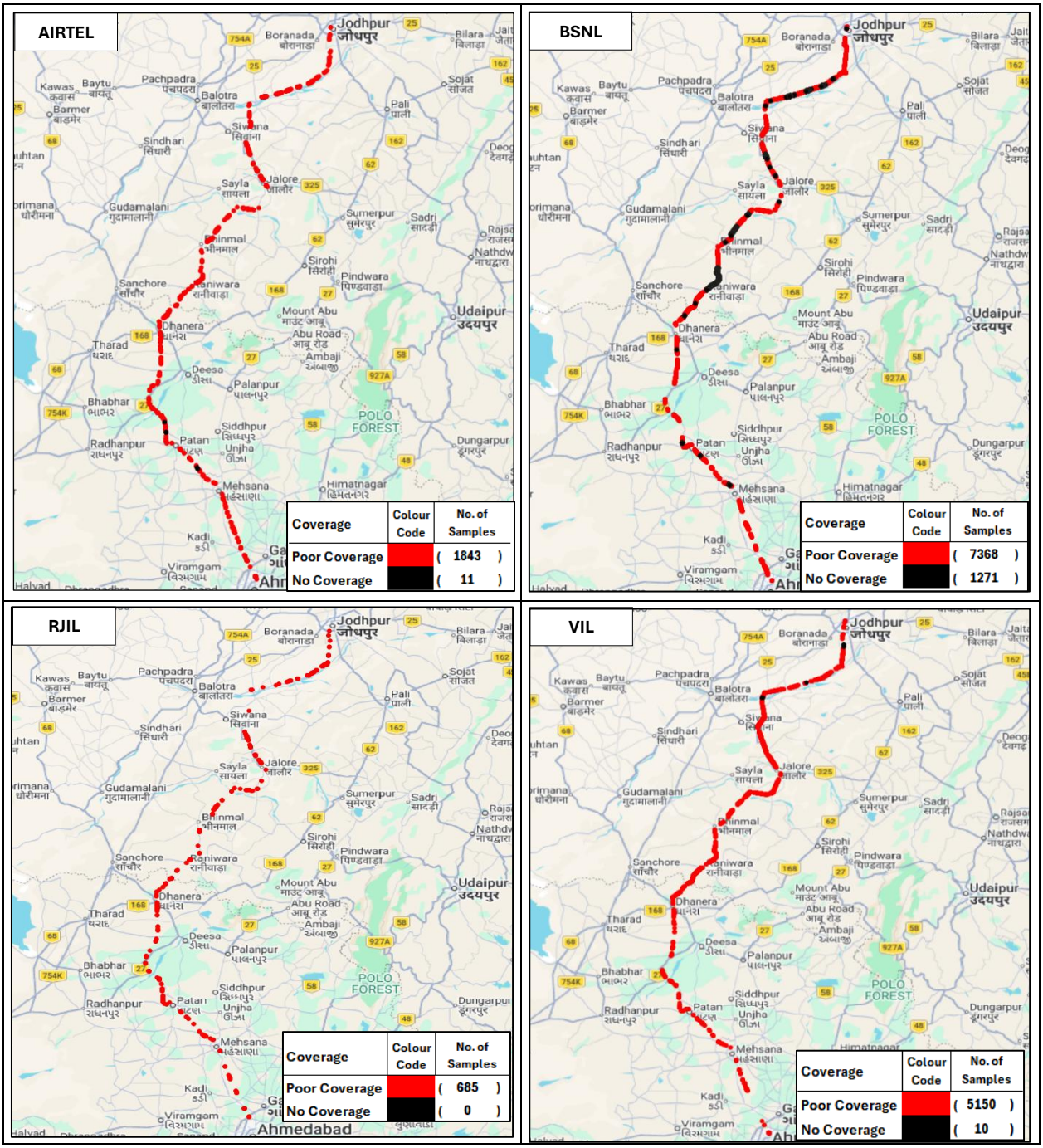
Enclosed:Annexure

Annexure

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	26319	23625	26136	25817
Number of Samples having poor signal strength	1843	7368	685	5150
Number of Samples having limited service (No Coverage)	11	1271	0	10

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.

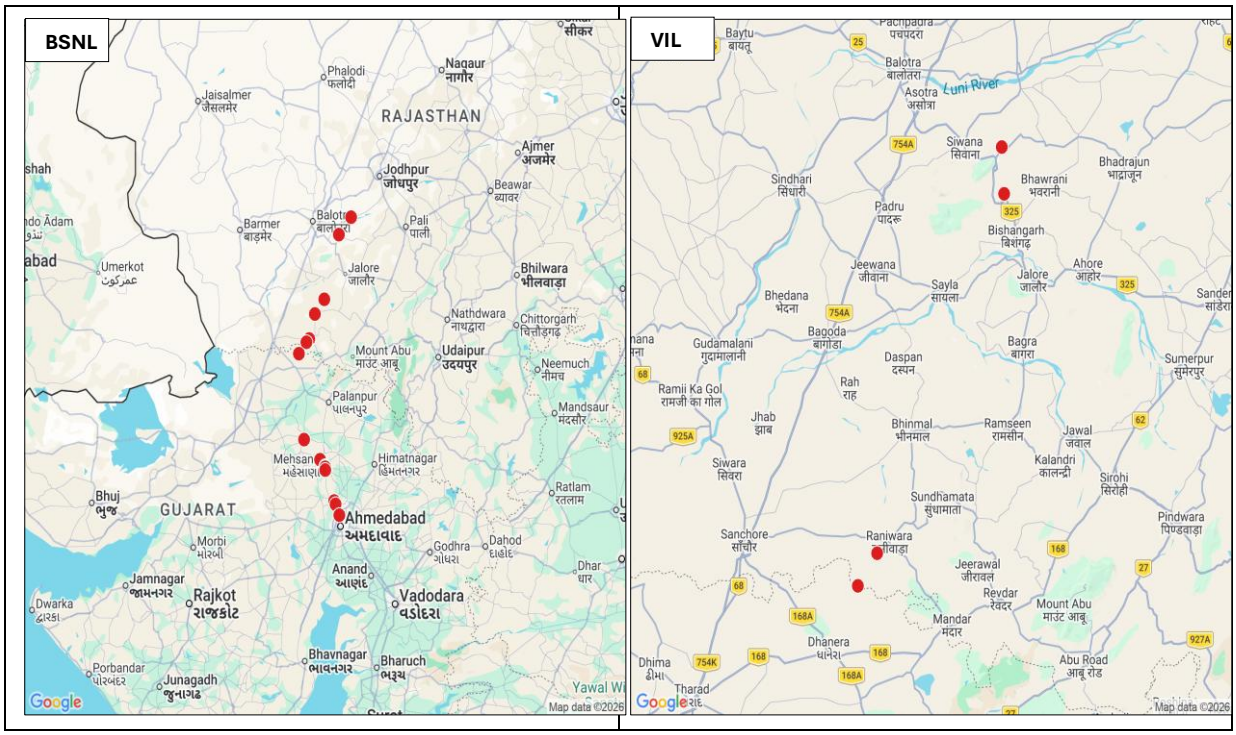


Note: Plot is based on Dynamic Drive Test results only**.**

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	130	122	130	126
Number of dropped Calls	0	15	0	4

Locations of Dropped Calls

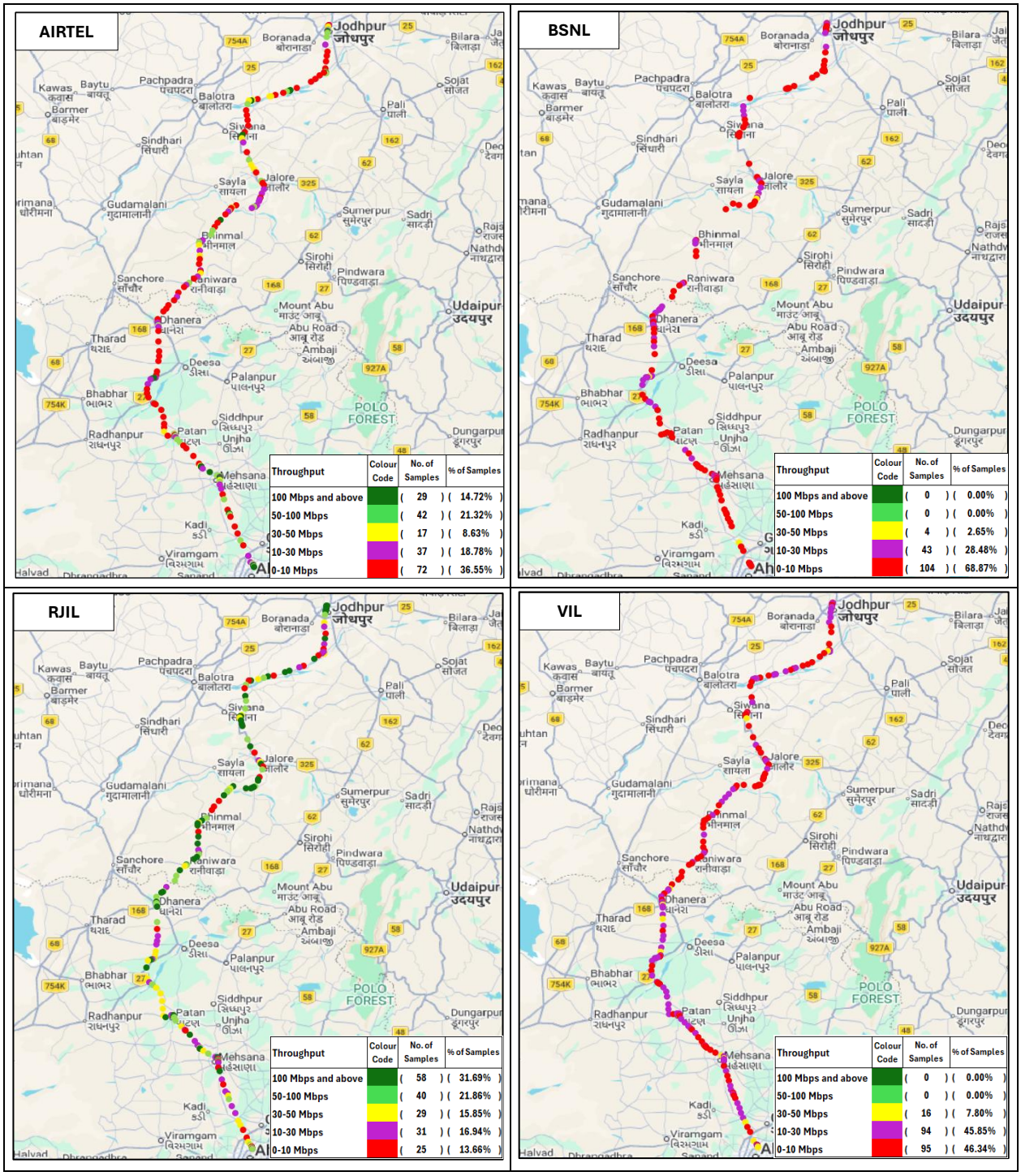


Note: Dropped calls locations are shown in red colour, and which can be clicked to know the exact location (latitude and longitude) on the map.

c) 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

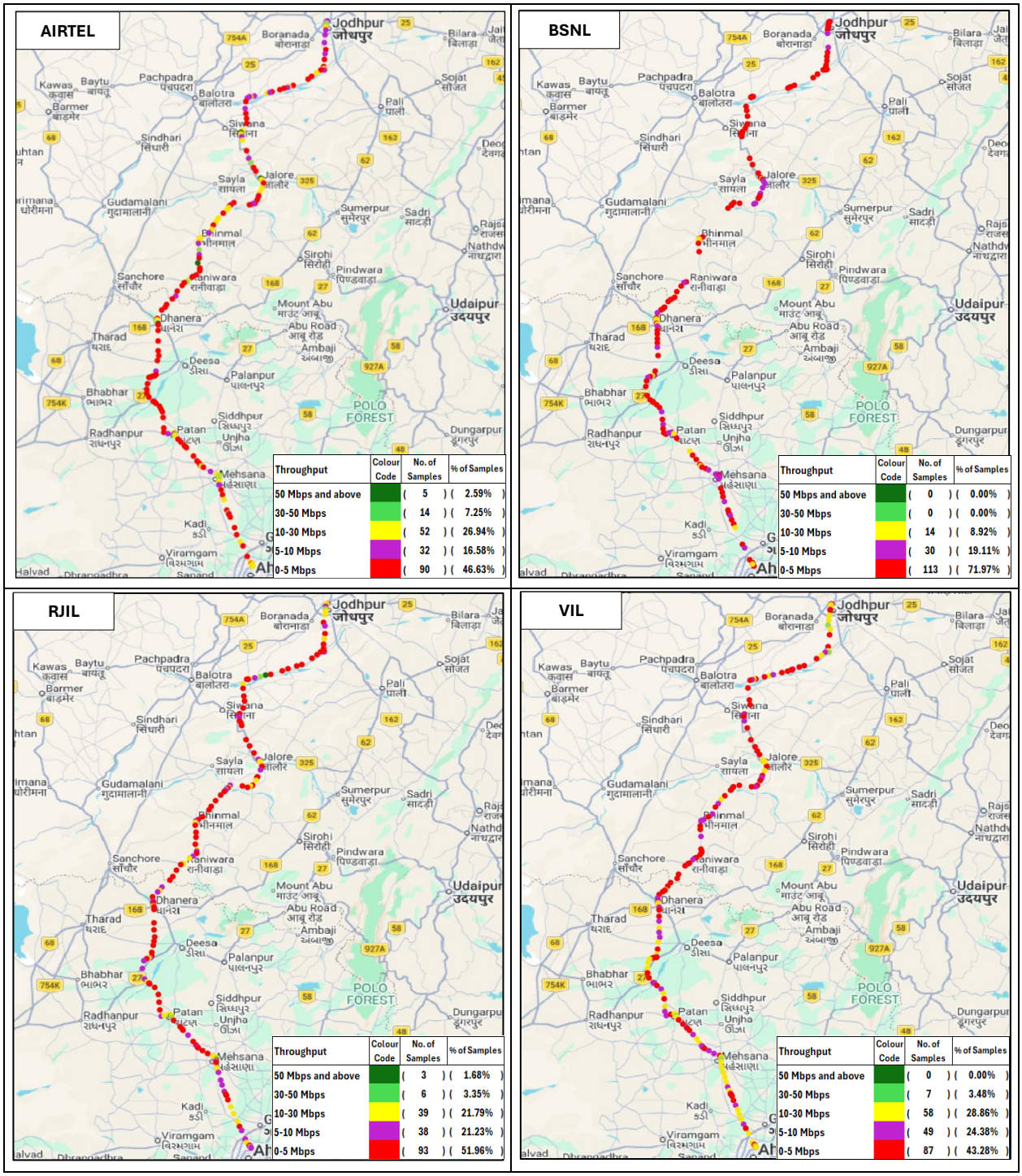
Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 3G)	RJIL (upto 5G)	VIL (upto 5G)
Typical Download throughput declared by TSP	(Mbits/s)	11.42	5.00	15.00	15.00
Average Download Throughput measured during IDT	(Mbits/s)	48.53	7.95	89.61	12.71



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

(ii) Upload Throughput

Parameter	Measured in	AIRTEL (upto 5G)	BSNL (upto 3G)	RJIL (upto 5G)	VIL (upto 5G)
Typical upload throughput declared by TSP	(Mbits/s)	6.46	3.00	7.00	8.00
Average Upload Throughput measured during IDT	(Mbits/s)	11.69	3.76	9.06	8.81



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