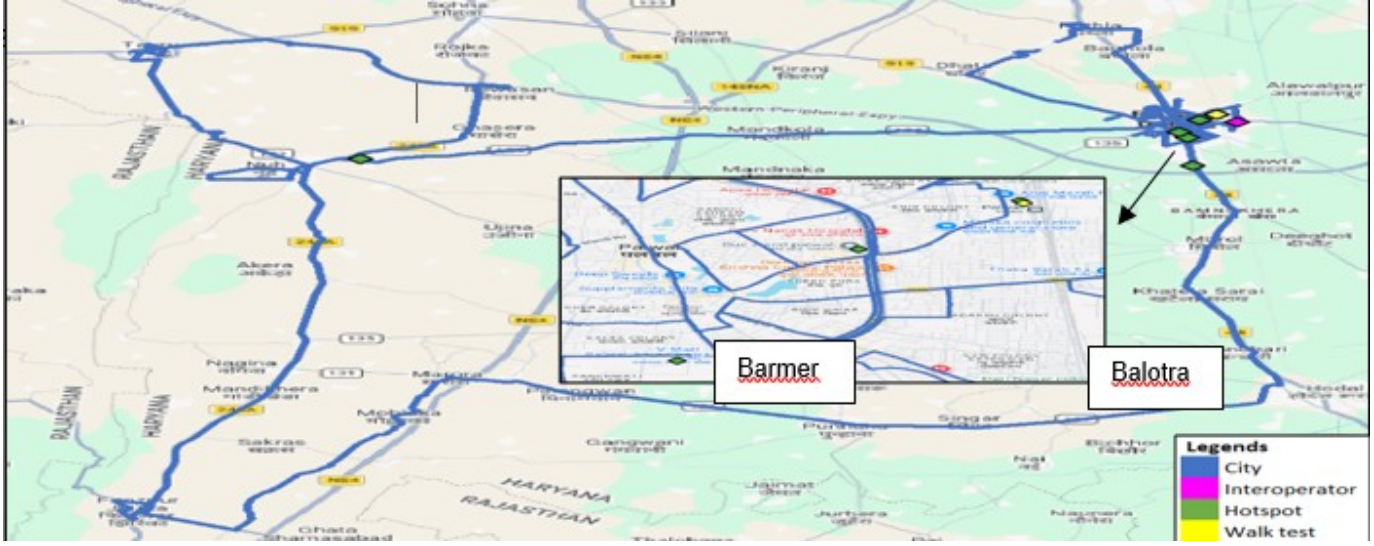
TRAI Assesses Mobile Network Quality across Nuh & Palwal cities and adjoining areas (in Haryana LSA) during the month of July 2026

Posted On: 05 NOV 2026 1:28PM by PIB Delhi

The Telecom Regulatory Authority of India (TRAI) has released findings of Independent Drive Test (IDT) conducted across **Nuh & Palwal cities and adjoining areas (in Haryana LSA)**, during the month of July 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), Packet loss rate, data Download (DL) and Upload (UL) throughput etc., which are then published to inform Consumers and encourage TSPs to improve their services.

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.

TRAI, through its appointed agency, conducted drive tests across City drive – 295.2 KMs, Walk test-1.8 KMs & Hotspot locations - 06 across **Nuh & Palwal cities and adjoining areas** during 13th July to 15th July 2026 in **Haryana LSA.** These tests were conducted under the supervision of the TRAI Regional Office Jaipur. The observations presented in the drive test reports represent the performance of the TSPs on the area/ route under test on the day/ time of conducting the drive test.



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: -

Key Parameters Assessed

1. **Coverage Gap:** Percentage of samples, for which signal strength observed less than the minimum prescribed signal strength for respective technology (2G/ 3G/ 4G/ 5G).
2. **Voice Services:** Call Setup Success Rate (CSSR), Drop Call Rate (DCR), Call Setup Time, Call Silence Rate, Speech Quality (MOS).
3. **Call Silence Instance**: Number of call silence instance occurred during the calls.
4. **Data Servies:** Download/ Upload Throughput, Latency, Jitter, Packet Drop Rate.

The overall mobile network performance in **Nuh & Palwal cities and adjoining areas of the districts** for the key parameters has been summarised below:

1. **<u>Nuh District:</u>**

1. **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 **346**/15867 for **Airtel**, **4021**/15424 for **BSNL**, **784**/15626 for **RJIL** and **327**/15836 for **VIL**. Details of the coverage gaps have been provided in the map **Annexed**.
2. **Dropped Calls** - Dropped calls, measured as the number of dropped calls out of the number of successfully established calls, were **0**/142 for **Airtel**, **5**/140 for **BSNL**, **1**/141 for **RJIL** and **0**/143 for **VIL**. Details of the dropped call locations have been provided in the map A**nnexed.**
3. **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 **13**/136 for **Airtel**, **35**/131 for BSNL, **5**/135 for **RJIL** and **20**/139 for **VIL**. Details of the call silence instance locations have been provided in the map **Annexed**.
4. **Packet Loss rate (Downlink & Uplink):**
    1. Packet Loss rate (Downlink): Downlink Packet loss rate measured for **Airtel as 1.84 %, for BSNL as 5.35%, for RJIL as 2.11% and for VIL as 3.33 %.**
    2. Packet Loss rate (uplink): Uplink Packet loss rate measured for **Airtel as 2.06%, for BSNL as 3.12%, for RJIL as 2.84% and for VIL as 2.21 %.**

5. **Data Download and Upload Throughput**:

    3. **Data Download performance (Overall)**: Average download speed was observed as **75.70 Mbps** for **Airtel (5G/4G)**, **6.78 Mbps** for **BSNL (4G/3G/2G)**, **130.28 Mbps** for **RJIL (5G/4G)** and **20.03 Mbps** for **VIL (5G/4G/2G)**. Detail of Download throughput has been provided in the map **Annexed.**

    4. **Data Upload performance (Overall)**: Average upload speed was observed as **14.26 Mbps** for **Airtel (5G/4G)**, **6.21 Mbps** for **BSNL (4G/3G/2G)**, **9.71 Mbps** for **RJIL (5G/4G)** and **10.84 Mbps** for **VIL (5G/4G/2G)**. Detail of upload throughput has been provided in the map **Annexed.**

2. **<u>Palwal District :</u>**

1. **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 **279**/30406 for **Airtel**, **2239**/29643 for **BSNL**, **768**/29489 for **RJIL** and **241**/30350 for **VIL**. Details of the coverage gaps have been provided in the map **Annexed**.
2. **Dropped Calls** - Dropped calls, measured as the number of dropped calls out of the number of successfully established calls, were **1**/272 for **Airtel**, **3**/268 for **BSNL**, **1**/251 for **RJIL** and **0**/269 for **VIL**. Details of the dropped call locations have been provided in the map A**nnexed.**
3. **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 **10**/259 for **Airtel**, **11**/258 for BSNL, **9**/250 for **RJIL** and **17**/265 for **VIL**. Details of the call silence instance locations have been provided in the map **Annexed**.
4. **Packet Loss rate (Downlink & Uplink):**
5. Packet Loss rate (Downlink): Downlink Packet loss rate measured for **Airtel as 0.79 %, for BSNL as 2.57%, for RJIL as 1.62% and for VIL as 1.22%.**

    2. Packet Loss rate (uplink): Uplink Packet loss rate measured for **Airtel as 0.96%, for BSNL as 1.40%, for RJIL as 1.78% and for VIL as 1.35%.**

5. **Data Download and Upload Throughput**:

    1. **Data Download performance (Overall)**: Average download speed was observed as **105.00 Mbps** for **Airtel (5G/4G)**, **13.92 Mbps** for **BSNL (4G/3G/2G)**, **212.03 Mbps** for **RJIL (5G/4G)** and **40.70 Mbps** for **VIL (5G/4G/2G)**. Detail of Download throughput has been provided in the map **Annexed.**

    2. **Data Upload performance (Overall)**: Average upload speed was observed as **20.96 Mbps** for **Airtel (5G/4G)**, **7.20 Mbps** for **BSNL (4G/3G/2G)**, **14.52 Mbps** for **RJIL (5G/4G)** and **13.03 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.**

Details of drive test route and area covered during the IDT are as under: -

Nuh District- Tauru, Rewasan, Ghasera, Nuh, Akera, Nagina, Mandkhera, Mohlaka, Sakras, Ferozpur and Jhirka etc.

Palwal District- Mandkola, Palwal Rural, Dhal, Baghola, Alawalpur, Deeghot, Khatela Sarai, Banchari, Hodal, Singar, Punhana and Phangwan etc.

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.

Click here to see Annexure

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