



## भारतीय दूरसंचार विनियामक प्राधिकरण

Telecom Regulatory Authority of India

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No: TRAI/RO/BLR/IDTR/2026-27

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To,

Senior Research Officer (QoS)  
Telecom Regulatory Authority of India  
Tower F, World Trade Centre  
Nauroji Nagar  
New Delhi - 110029

### **Sub: Acceptance and publishing IDT report of Thrissur, Kerala LSA : Q/E Sep 2026.**

TRAI vide its work order No. AU-42/6(2)/2023-QoS/3790/(E010053) dated 22 Aug 2024, has appointed M/s Red Mango Analytics Pvt. Ltd for duration three years i.e. up to 31 Jul 2027 for conducting independent Drive Test in each of the License Service Areas (LSA) covering State of Karnataka, Kerala, Kerala & Goa and Mumbai falling under jurisdiction of Regional Office.

2. Guideline for Drive Test was conveyed to all TSPs vide TRAI HQ vide letter no. AU-4/2/6(1)/2024-QoS/61/E-13395) dated 12 Aug 2024. Approved IDT format was conveyed vide by TRAI HQ on 06 Nov 2024. Quarterly plan for IDT for Q4 of 2025 was approved by TRAI HQ through e-office on **12<sup>th</sup> June 2026**. As per schedule, IDT of Thrissur was scheduled from **21<sup>st</sup> to 24<sup>th</sup> July 2026**.

3. IDT was planned for **Thrissur** based on District wise DCR analysis for **Kerala LSA**, customer complaints and report of previous Drive test carried out by this office. The drive test was carried out for **four days. Part of First Day, Second day, and third day city drive along the route Walk test and hotspots and Part of Part of First Day, and Fourth day Highway drive was carried out.** Selection of drive test route was based on DCR GIS map shared by the HQ. All base stations with poor DCR value were selected to be covered. In addition, static locations and walk locations were selected based on consumer complaints and place of public importance. The drive test was fully supervised by RO officials both physically and virtually. Wide range of findings have been obtained as part of drive test providing excellent comparison of networks and inputs for network operations/ planning.

4. IDT was conducted for **484.2 Kms of Thrissur including 297.9 Kms of City drive, 10 Hot spots, 5.9 Kms Walk Test, and Highway Drive of 180.4 Kms** as per details given below: -

| Sl. No | Drive test route             | Type of route          | Distance covered (KMs)/ Locations | From date    | To date      |
|--------|------------------------------|------------------------|-----------------------------------|--------------|--------------|
| 1      | Thrissur                     | City                   | 297.9                             | 21-July-2026 | 23-July-2026 |
| 2      | Thrissur                     | Inter Operator Calling | 1 Location                        | 23-July-2026 | 23-July-2026 |
| 3      | Thrissur                     | Hotspot                | 10 Locations                      | 21-July-2026 | 24-July-2026 |
| 4      | Thrissur                     | Walk test              | 5.9                               | 22-July-2026 | 23-July-2026 |
| 5      | Kochi to Thrissur to Calicut | Highway                | 180.4                             | 21-July-2026 | 24-July-2026 |

5. M/s Red Mango Analytics Pvt. Ltd had submitted soft copy of IDT report on 17<sup>th</sup> Aug 2026, revised report submitted on 19<sup>th</sup> Aug 2026, and hard copy of the report is awaited.

6. **Summary of TSP - wise findings.** TSP wise key findings as brought out in the IDT Report are submitted as under (References to Tables cited below are as in Main IDT report):

**1.Airtel:**

**Voice**

- 95.29% call setup success rate and 1.20% drop call rate have been observed in 3G/2G network mode for LSA. (refer table-3)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for LSA. (refer table-5)
- 99.70% call setup success rate and 0.61% drop call rate have been observed in 3G/2G network mode for city drive. (refer table-13)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for city drive. (refer table-15)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for all hotspot locations. (refer table-21)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) at all walk test locations. (refer table-54, 55 & 56)
- 97.85% call setup success rate and 3.30% drop call rate have been observed in 3G/2G network mode for highway drive. (refer table-60)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for highway drive. (refer table-62)

**Data**

- Airtel has 147.37 Mbps average download speed & 30.94 Mbps average upload speed for LSA. (refer table-11)
- Airtel has 145.43 Mbps average download speed & 27.96 Mbps average upload speed across the measured routes for city drive. (refer table-19)

- District Hospital Thrissur, Government Medical College Hospital Thrissur and Vadanapally have less download speed (less than 100 Mbps) out of total 10 hotspot locations for auto-selection mode (5G/4G/3G/2G). (refer table- 34, 35 & 42)
- District Hospital Thrissur, Government Medical College Hospital Thrissur, Thrissur Collectorate, Thrissur Corporation Office and Vadanapally have less upload speed (less than 20 Mbps) out of total 10 hotspot locations for auto-selection mode (5G/4G/3G/2G). (refer table- 34, 35, 39, 40 & 42)
- Guruvayur Temple has less download speed (less than 100 Mbps) out of total 3 Walk Test locations for auto-selection mode (5G/4G/3G/2G). (refer table- 57)
- Airtel has 165.81 Mbps average download speed & 38.36 Mbps average upload speed across the measured routes for highway drive. (refer table-66)

## **2. BSNL:**

### **Voice**

- 100.00% call setup success rate and 0.24% drop call rate have been observed in 3G/2G network mode for LSA. (refer table-3)
- 99.34% call setup success rate and 3.64% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for LSA. (refer table-5)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in 3G/2G network mode for city drive. (refer table-13)
- 99.45% call setup success rate and 4.74% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for city drive. (refer table-15)
- 99.00% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for all hotspot locations. (refer table-21)
- 100.00% call setup success rate and 0.00% drop call rate has been observed in auto-selection mode (5G/4G/3G/2G) at Guruvayur Temple walk test location. (refer table- 54)
- 100.00% call setup success rate and 14.29% drop call rate has been observed in auto-selection mode (5G/4G/3G/2G) at Thrissur Railway Station walk test location. (refer table- 55)
- 100.00% call setup success rate and 5.56% drop call rate has been observed in auto-selection mode (5G/4G/3G/2G) at Thrissur Swaraj Round Walkway walk test location. (refer table- 56)
- 100.00% call setup success rate and 1.11% drop call rate have been observed in 3G/2G network mode for highway drive. (refer table-60)
- 98.95% call setup success rate and 2.13% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for highway drive. (refer table-62)

### **Data**

- BSNL has 8.61 Mbps average download speed & 5.50 Mbps average upload speed for LSA. (refer table-11)
- BSNL has 7.92 Mbps average download speed & 5.41 Mbps average upload speed across the measured routes for city drive. (refer table-19)

- Chalakudy Railway Station, District Hospital Thrissur, Hilite Mall Thrissur, Irinjalakuda KSRTC Bus Stand, Shakthan Thampuran Bus Stand and Thrissur KSRTC Bus Stand have less download speed (less than 10 Mbps) out of total 10 hotspots locations for auto-selection mode (5G/4G/3G/2G). (refer table-33, 34, 36, 37, 38 & 41)
- Chalakudy Railway Station has less upload speed (less than 2 Mbps) out of total 10 hotspots locations for auto-selection mode (5G/4G/3G/2G). (refer table-33)
- All walk test locations have less download speed (less than 10 Mbps) for auto-selection mode (5G/4G/3G/2G). (refer table-57, 58 & 59)
- BSNL has 10.14 Mbps average download speed & 5.17 Mbps average upload speed across the measured routes for highway drive. (refer table- 66)

### **3. RJIL:**

#### **Voice**

- 99.15% call setup success rate and 0.17% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for LSA. (refer table-5)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for city drive. (refer table-15)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for all hotspot locations. (refer table-21)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) at all walk test locations. (refer table-54, 55 & 56)
- 94.57% call setup success rate and 1.15% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for highway drive. (refer table- 62)

#### **Data**

- RJIL has 315.13 Mbps average download speed & 24.54 Mbps average upload speed for LSA. (refer table-11)
- RJIL has 328.12 Mbps average download speed & 23.95 Mbps average upload speed across the measured routes for city drive. (refer table-19)
- Chalakudy Railway Station, District Hospital Thrissur and Vadanapally have less download speed (less than 100 Mbps) out of total 10 hotspot locations for auto-selection mode (5G/4G/3G/2G). (refer table-33, 34 & 42)
- All hotspot locations have less upload speed (less than 20 Mbps) for auto-selection mode (5G/4G/3G/2G). (refer table-33 to 42)
- RJIL has 346.73 Mbps average download speed & 29.92 Mbps average upload speed across the measured routes for highway drive. (refer table- 66)

### **4. VIL:**

#### **Voice**

- 99.52% call setup success rate and 0.00% drop call rate have been observed in 3G/2G network mode for LSA. (refer table-3)
- 98.32% call setup success rate and 0.34% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for LSA. (refer table-5)

- 99.39% call setup success rate and 0.00% drop call rate have been observed in 3G/2G network mode for city drive. (refer table-13)
- 97.18% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for city drive. (refer table-15)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for all hotspot locations. (refer table-21)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) at all walk test locations. (refer table-54, 55 & 56)
- 100.00% call setup success rate and 0.00% drop call rate have been observed in 3G/2G network mode for highway drive. (refer table-60)
- 100.00% call setup success rate and 2.15% drop call rate have been observed in auto-selection mode (5G/4G/3G/2G) for highway drive. (refer table- 62)

### **Data**

- VIL has 40.25 Mbps average download speed & 16.08 Mbps average upload speed for LSA. (refer table-11)
- VIL has 44.52 Mbps average download speed & 14.64 Mbps average upload speed across the measured routes for city drive. (refer table-19)
- All hotspot locations have less download speed (less than 100 Mbps) except Thrissur Collectorate for auto-selection mode (5G/4G/3G/2G). (refer table- 33, 34, 35, 36, 37, 38, 40, 41 & 42)
- Government Medical College Hospital Thrissur, Hilite Mall Thrissur, Shakthan Thampuran Bus Stand, Thrissur Collectorate, Thrissur Corporation Office, Thrissur KSRTC Bus Stand and Vadanapally have less upload speed (less than 20 Mbps) out of total 10 hotspot locations for auto-selection mode (5G/4G/3G/2G). (refer table-35, 36, 38, 39, 40, 41 & 42)
- All walk test locations have less download speed (less than 100 Mbps) for auto-selection mode (5G/4G/3G/2G). (refer table-57, 58 & 59)
- VIL has 22.77 Mbps average download speed & 13.70 Mbps average upload speed across the measured routes for highway drive. (refer table- 66)

7. **Proposed Key Action Points from TSPs.** Key action points (both short and long term) for TSPs are proposed as under: -

- TSPs should take cognizance of the report and carry out network improvement, as required.
- All TSPs should carryout physical and soft optimization of their network and confirm with pre and post plots within fifteen days of publication of report.
- All TSPs should carry out / plan additional sites to augment their infrastructure. TSPs should provide timelines for the same.

- d) All TSPs to take actions to improve data throughput at route, static and walk test locations, as required.

8. **Draft input for press Release.** Draft for Press Release is included in the report.

9. **Recommendations.** It is recommended that a copy of the Drive Test report be shared with the TSPs for their information and necessary corrective action. Further, the TSPs shall update the **Action Plan and Compliance Report through the ATR/PMR Portal in accordance with the ATR Guidelines dated 17-09-2025.**



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