

TRAI Assesses Quality of Mobile Network across Ahmedabad, Gandhinagar Cities & Vadodara to Ahmedabad Highway (Gujarat)

Posted On: 25 MAR 2026 12:02PM by PIB Delhi

The Telecom Regulatory Authority of India (TRAI) released findings of Independent Drive Test (IDT) conducted across Ahmedabad, Gandhinagar Cities & Vadodara to Ahmedabad Highway (In Gujarat LSA), during the month of Feb 2026, for information of general telecom consumers.

These IDT have been designed to capture real-world mobile network performance of all Telecom Service Providers (TSPs) across diverse usages environment –Urban zones, 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. The data collected during the drive test is further analysed using specialized tools, and the final report is prepared based on this analysis.

TRAI, through its appointed agency, conducted detailed drive tests across city drive of 462.4 Kms, 14 Hotspot locations, Walk Test of 2.5 Kms in Ahmedabad, Gandhinagar Cities & Vadodara to Ahmedabad Highway of 95.3 Kms during 02-02-2026 to 06-02-2026 in Gujarat LSA. These tests were conducted under the supervision of the TRAI Regional Office, Jaipur.

During the IDT, various Key Performance Indicators (KPIs) of Mobile Network for Voice as well as Data service were assessed for all Telecom Service Providers operating in the region. A summary of findings is given as below:

a. Ahmedabad, Gandhinagar Cities:

Voice Services

S.No.	KPIs (Auto-selection mode (5G/4G/3G/2G))	Measured in	AIRTEL	BSNL	RJIL	VIL
1	Call Setup Success Rate %	%	100.00	81.91	99.86	99.72

2	Drop Call Rate %	%	0.00	2.61	0.00	0.00
3	Call Setup Time Average (Second)	sec	0.89	2.21	0.50	0.63
4	Call Silence rate (Mute Call)	%	0.00	5.03	0.29	0.71
5	Mean Opinion Score (MOS)	1-5	4.00	3.12	4.53	4.51

(ii) Data Services:

S.No.	KPIs	Measured in	AIRTEL	BSNL	RJIL	VIL
1	Average Download Throughput 5G	(Mbits/s)	121.09	NA	258.16	55.09
2	Average Upload Throughput 5G	(Mbits/s)	34.66	NA	39.19	23.15
3	Average Download Throughput 4G	(Mbits/s)	47.24	18.05	41.81	31.97
4	Average Upload Throughput 4G	(Mbits/s)	7.15	6.50	8.50	12.76
5	Latency (50th percentile)	in ms	32.55	42.03	19.72	21.39

b. Vadodara to Ahmedabad Highway:

(i) Voice Services:

S.No.	KPIs (Auto-selection mode (5G/4G/3G/2G))	Measured in	AIRTEL	BSNL	RJIL	VIL
1	Call Setup Success Rate %	%	100.00	89.80	100.00	100.00
2	Drop Call Rate %	%	0.00	22.73	0.00	0.00
3	Call Setup Time Average (Second)	sec	0.93	3.67	0.55	0.69
4	Call Silence rate (Mute Call)	%	0.00	0.00	0.00	0.00
5	Mean Opinion Score (MOS)	1-5	3.80	2.66	4.50	4.45

(ii) Data Services:

S.No.	KPIs	Measured in	AIRTEL	BSNL	RJIL	VIL
1	Average Download Throughput	(Mbits/s)	97.38	5.68	191.73	31.42
2	Average Upload Throughput	(Mbits/s)	16.07	2.38	23.86	13.57
3	Latency (50th percentile)	in ms	39.86	47.44	20.97	25.53

The assessment in Ahmedabad, Gandhinagar Cities & Vadodara to Ahmedabad Highway included areas of Gandhinagar, Kolavada, Sector-26, Sector-30, Kudasana, Adalaj, Hansol, Girdhar Nagar, Piplaj, Govindwadi, Vinzol, Navapura, Kathwada, Nanachiloda, Naroda, Bapunagar and Maninagar etc & Vadodara to Ahmedabad via National Expressway 1, passing through Poicha, Chikodra, Nadiad, Modaj and Geratnagar 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@traai.gov.in.

NJ/ARJ

(Release ID: 2244866) Visitor Counter : 214

Read this release in: Gujarati , Urdu , हिन्दी