

For Immediate Release

Information note to the Press (Press Release No.81/2017)

Telecom Regulatory Authority of India

TRAI Releases Report on Independent Drive Test conducted in Jodhpur City from 1st to 5th August 2017.

New Delhi 3rd October, 2017: TRAI through its agency conducted Independent Drive Tests (IDT) in the city of Jodhpur in Rajasthan License Service Area. Drive tests were conducted to assess the network quality provided by cellular mobile telephone service providers for voice and data services.

2. The drive tests were conducted for a period of 5 days during 1st to 5th August, 2017. It covered a route of approximately 610 KMs and data tests conducted on 6 hotspots. Cellular mobile telephone service providers included namely Aircel, Airtel, Idea, BSNL, Tata, RCOM, Vodafone, MTS and Jio. Tests included 2G, 3G, 4G and CDMA radio access technologies. The drive test route covered different parts of Jodhpur city and its surrounding regions and included areas from where call drop complaints were received, areas of heavy usage, residential areas away from arterial roads and also office areas.
3. The Key Performance Indicators (KPIs) were assessed for the networks of all telecom service providers operating in the region. KPIs for voice services were Coverage; Call Setup Success Rate; Drop Call Rate; Block Call Rate, Handover Success Rate; Rx Quality. KPIs for data services were Download and Upload Throughputs, Web Browsing Delay, Video Streaming Delay and Latency
4. The summary of the Service Provider's performance on the key parameters based on Independent Drive Test is given here under:-

Voice Call	2G							CDMA	
	Aircel	Airtel	BSNL	Tata	Idea	RCOM	Vodafone	MTS **	Tata**
Call Attempt	717	748	750	738	744	703	747	617	615
Blocked Call Rate (%)	1.10%	0.50%	1.20%	0.80%	0.90%	1.60%	0.30%	0.50%	0.70%
CSSR% (Accessibility)	98.90%	99.50%	98.80%	99.20%	99.10%	98.40%	99.70%	99.50%	99.30%
Drop Call Rate (%)	0.40%	0.70%	0.50%	0.30%	0.40%	0.40%	0.30%	1.50%	2.00%
Mobility HOSR (%)	98.50%	98.30%	96.80%	99.20%	98.80%	99.20%	98.70%	100.00%	100.00%
Rx Quality (%)	96.70%	96.80%	97.90%	97.00%	97.30%	98.30%	97.50%	75.00%	70.20%

Voice Call	3G						VoLTE
	Aircel*	Airtel	BSNL	Idea	RCOM	Vodafone	Jio
Call Attempt	461	761	766	737	699	757	757
Blocked Call Rate (%)	3.70%	0.80%	0.80%	0.80%	1.90%	0.00%	1.10%
CSSR% (Accessibility)	96.30%	99.20%	99.20%	99.20%	98.10%	100.00%	98.90%
Drop Call Rate (%)	0.90%	0.40%	0.80%	0.50%	1.30%	0.40%	0.30%
Mobility HOSR (%)	100.00%	100.00%	100.00%	99.90%	99.90%	100.00%	99.80%
Rx Quality (%)	94.90%	96.90%	97.80%	96.50%	97.10%	97.70%	88.10%

*Aircel 3G (CR) was not measured on 1st day, resulting in lesser # of call attempts on its 3G network
 **100+ calls did not get initiated in the adjoining areas of Jodhpur City for CMDA operators due to lack of coverage

Data Services	Aircel 2G	Airtel 2G	BSNL 2G	Tata 2G	Idea 2G	RCOM 2G	Vodafone 2G	MTS	Tata CDMA
Download Throughput (Kbps)	116.4	149.5	114.7	97.4	167.5	116.0	104	714.5	955.1
Upload Throughput (Kbps)	35.5	94.1	58.3	68.9	77.0	34.7	56.7	225.2	303.7
Web Browsing Delay (sec)	23.7	27.0	29.3	28.4	31.9	30.8	34.1	16.8	21.3
Latency (msec)	314	265	265	325	313	603	337	109	187

Data Services	Aircel 3G	Airtel 3G	BSNL 3G	Idea 3G	RCOM 3G	Vodafone 3G	Airtel 4G	Jio 4G	RCOM 4G	Vodafone 4G
Download Throughput (Mbps)	2.4	4.9	0.9	3.2	2.6	3.4	7.5	7.1	5.2	6.9
Upload Throughput (Mbps)	1.3	1.4	1.2	1.1	1.4	1.2	3.2	4.3	2.7	5.4
Web Browsing Delay (sec)	12.3	7.8	13.3	10	10.2	12.1	6.6	6.6	7.7	7.6
Video Streaming Delay (sec)	5.7	2.6	21.1	5.1	6.4	2.8	1.1	3.6	10.5	0.8
Latency (msec)	117	250	113	269	137	260	148	142	122	133

The complete report is available at TRAI website www.analytics.trai.gov.in

5. In case of any clarification, please contact, Shri. Asit Kadayan, Advisor (QoS) at Tel. No. +91-11-2323-0404 or at email.id: advqos@tra.gov.in


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