

Information Note to the Press (Press Release No 79/2025)

**TELECOM REGULATORY AUTHORITY OF INDIA**

**Regional Office Jaipur , 21August 2025**

For Immediate release

Website: - [www.trai.gov.in](http://www.trai.gov.in)

**TRAI Assesses Quality of Mobile Network across  
Kota City and Bandikui- Bharatpur- Kota Rail  
Route (Rajasthan)**

The Telecom Regulatory Authority of India (TRAI) released findings of Independent Drive Test (IDT) conducted by its Regional office Jaipur across Kota City & Bandikui-Bharatpur-Kota Rail Route (In Rajasthan LSA), during the month of July 2025, 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 310.5 Kms, 10 Hotspot locations, Walk Test of 1.1 Km in Kota city and Railway route of 386.6 km from Bandikui to Bharatpur to Kota during 01-07-2025 to 05-07-2025 in **Rajasthan 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) Kota City:**

**(i) Voice Services:**

S. No.	KPIs (Auto-selection mode (5G/4G/3G/2G))	Measured in	AIRTEL	BSNL	RJIL	VIL
1	Call Setup Success Rate (CSSR)	%	100.00	99.56	100.00	99.36
2	Call Setup Time Average (CST)	sec.	1.82	4.27	0.70	1.32
3	Drop Call Rate (DCR)	%	0.00	1.56	0.21	0.00
4	Call Silence rate (Mute Call)	%	0.88	NA*	1.11	0.44
5	Mean Opinion Score (MOS)	1-5	4.02	2.30	3.89	4.55

\*BSNL does not provide VoLTE/VONR Services for 4G as of now.

**(ii) Data Services:**

S. No.	KPIs (Auto-selection mode (5G/4G/3G/2G))	Measured in	AIRTEL	BSNL	RJIL	VIL
1	Average Download Throughput	(Mbits/s)	168.97	5.00	307.24	46.24
2	Average Upload Throughput	(Mbits/s)	42.24	5.41	38.01	15.73
3	Latency ( 50th percentile )	in ms	27.25	29.2	15.6	24.6

The assessment in Kota City included areas of Dhakarkheri, Sukhpura, Prem Nagar, Rajnaga, Borkhandi, Naya Nohra, Chitresh Nagar, Manpura, Sogriya, Bapu Colony, Nayapura, Bajaj Nagar, Ridhi Sidhi Nagar, Swami Vivekananda Nagar, Barda Basti, Subhash Nagar, etc. The walk test conducted on 05-07-2025 in Kota City focused on Kota Railway Station, being important place for general Public.



**(B) Bandikui-Bharatpur-Kota Rail Route:**

**(i) Voice Services:**

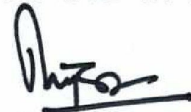
S.No.	KPIs (Auto-selection mode (5G/4G/3G/2G))	Measured in	AIRTEL	BSNL	RJIL	VIL
1	Call Setup Success Rate (CSSR)	%	100.00	85.44	100.00	94.85
2	Call Setup Time Average (CST)	sec.	1.96	3.10	0.88	2.40
3	Drop Call Rate (DCR)	%	1.08	12.50	0.00	4.35

**(ii) Data Services:**

S.No.	KPIs (Auto-selection mode (5G/4G/3G/2G))	Measured in	AIRTEL	BSNL	RJIL	VIL
1	Average Download Throughput	(Mbits/s)	71.64	3.48	155.34	20.22
2	Average Upload Throughput	(Mbits/s)	16.37	5.32	15.99	8.59
3	Latency ( 50th percetile )	in ms	28.20	32.95	21.95	28.20

The Rail route Bandikui-Bharatpur-Kota passes through important Railway Stations like Mandawar Mahwa Road, Kherli, Nadbai, Bharatpur, Bayana Junction, Hindaun, Gangapur city, Sawai Madhopur, Indargarh & Lakheri.

The findings of IDT report have been shared with respective TSPs for taking note & further necessary action at their end, if required. *Detailed reports of IDT are made available on the TRAI website at [www.trai.gov.in](http://www.trai.gov.in). For any clarification or additional information, an email can be sent to [adv.jaipur@trai.gov.in](mailto:adv.jaipur@trai.gov.in) or Regional office of TRAI at Jaipur can be contacted on telephone no. +91-141-2701919.*

  
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