# OPERATOR ASSISTED DRIVE TEST REPORT

EAST DELHI

DELHI LSA

DECEMBER 2025 (REGIONAL OFFICE, DELHI)

The Operator Assisted Drive Test has been carried out by Regional Office, Delhi with the help of Telecom Service Providers in Delhi LSA covering **East Delhi** from **09th to 11th December 2025** from 09.30 AM to 07.30 PM. The drive test covered drive route of **161 KM (approx.) over a period of three days, covering hotspot at seven (06) locations.** Networks Tested: 3 in 2G, 1 in 3G, 4 in 4G and 2 in 5G.

Voice and Dynamic/Static Data Test Route – Delhi LSA			
S.No	Date	Location/Area	Static Hotspot Locations
1	09-12-2025	South-East Delhi, Anand Vihar, Patparganj, Mayur Vihar and Nearby Areas	NA
2	10-12-2025	North East Delhi, Dilshad Garden, Jhilmil and Nearby Area	NA
3	11-12-2025	NA	ISBT Anand Vihar, Dilshad Garden Metro Station, IP University, Karkarduma Court, Akshardham Temple, Dharamshila Hospital

DRIVE TEST ROUTE MAP (CITY DRIVE TEST)
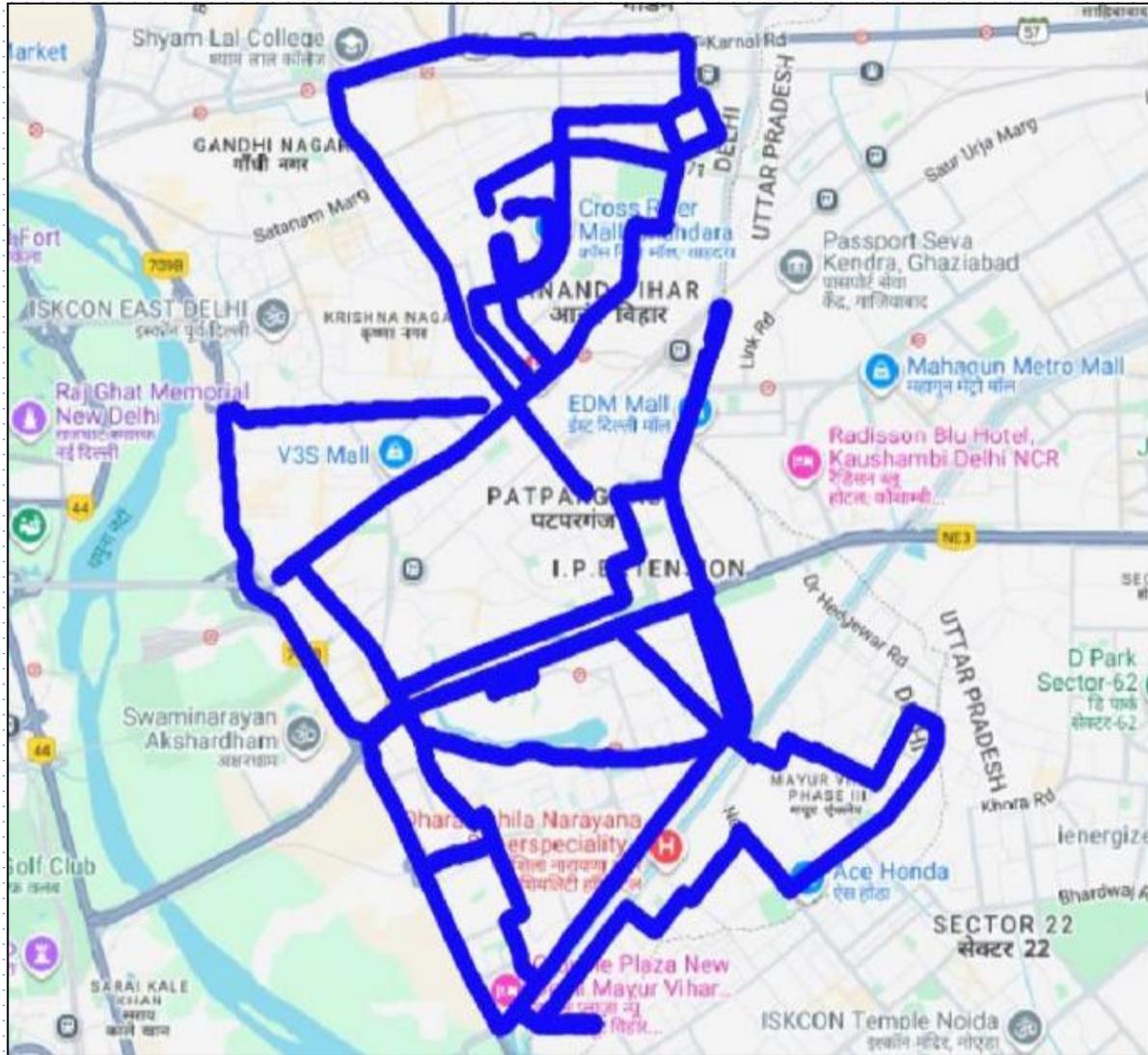
Day 1
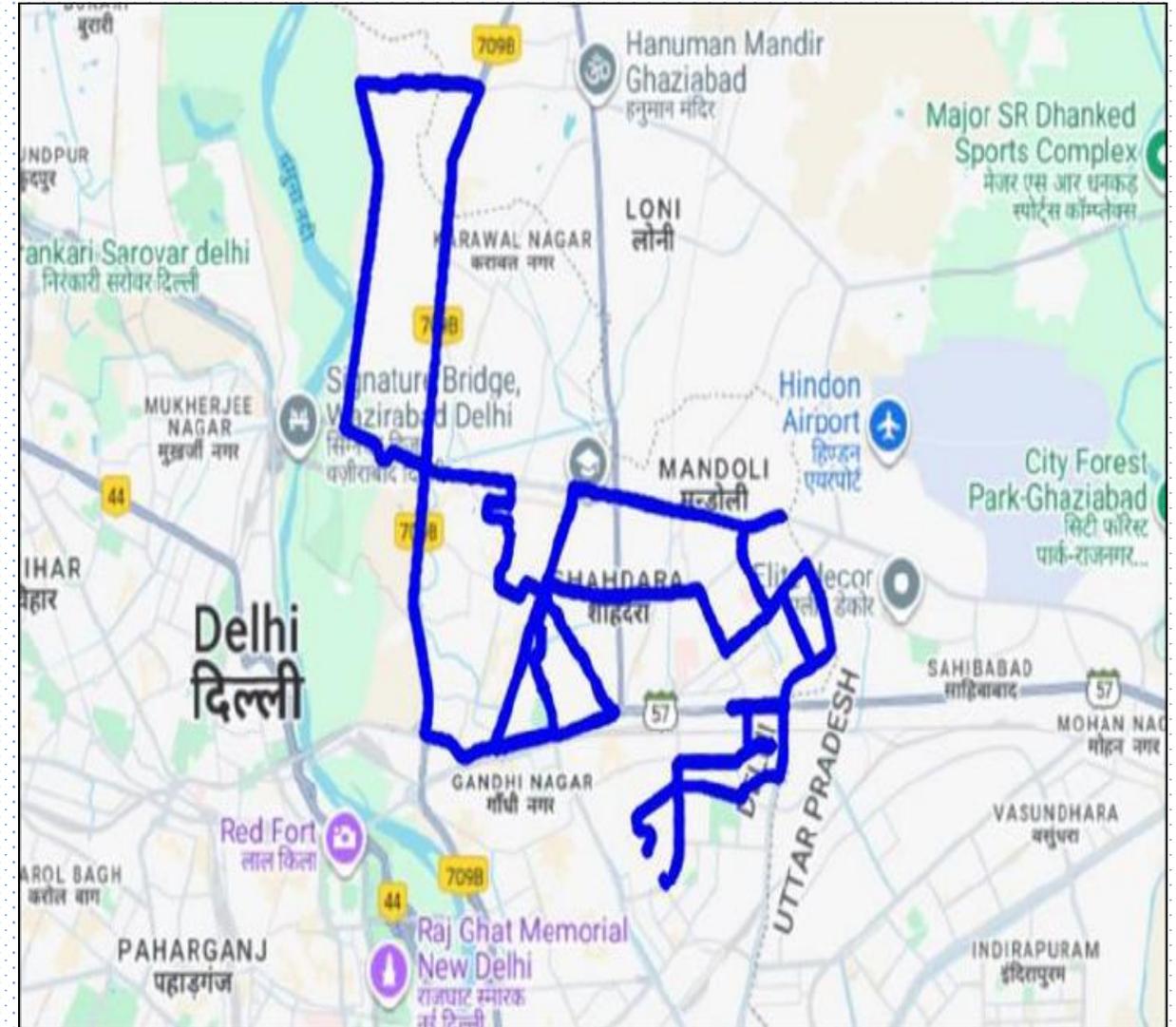
Day 2

DRIVE TEST ROUTE MAP (HOT SPOTS)

Day 3

KEY OBSERVATIONS FROM DRIVE TEST (VOICE)

TSP	Network tested
Airtel	2G,4G & 5G
MTNL	2G,3G
RJIO	4G & 5G
VIL	2G & 4G

Calls were made for the **180-sec** duration on the highway route and **90-sec** duration on the city route, with a wait time of **15 sec** between calls in all technologies.
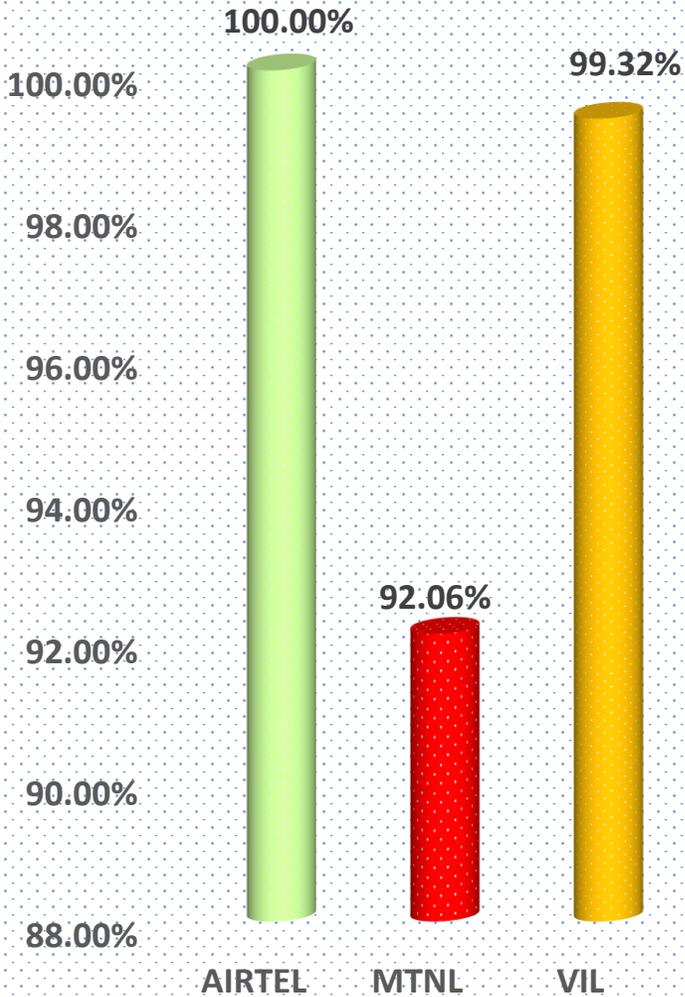
KPI	Benchmark	Observations		
Drop call rate %	≤2%	All TSPs achieved the benchmark except MTNL.		
CSSR %	≥98 %	All TSPs achieved the benchmark except MTNL.		
Handover Success Rate%	≥95%	All TSPs achieved the benchmark.		
Speech Quality (Average MOS)	VIL	MTNL	Airtel	RJIL
	4.31	-	4.07	4.13

SUMMARY – VOICE CITY DYNAMIC IN 3G/2G (LOCKED MODE)

Voice Call	AIRTEL 2G	MTNL 3G/2G	VIL 2G
Call Attempt	235	353	297
Call Established	234	325	295
CSSR% (Accessibility)	100.00 %	92.06 %	99.32 %
Drop Call Rate (%)	0.00 %	6.76 %	1.01 %
Handover Success Rate (%)	96.08 %	100 %	95.63 %

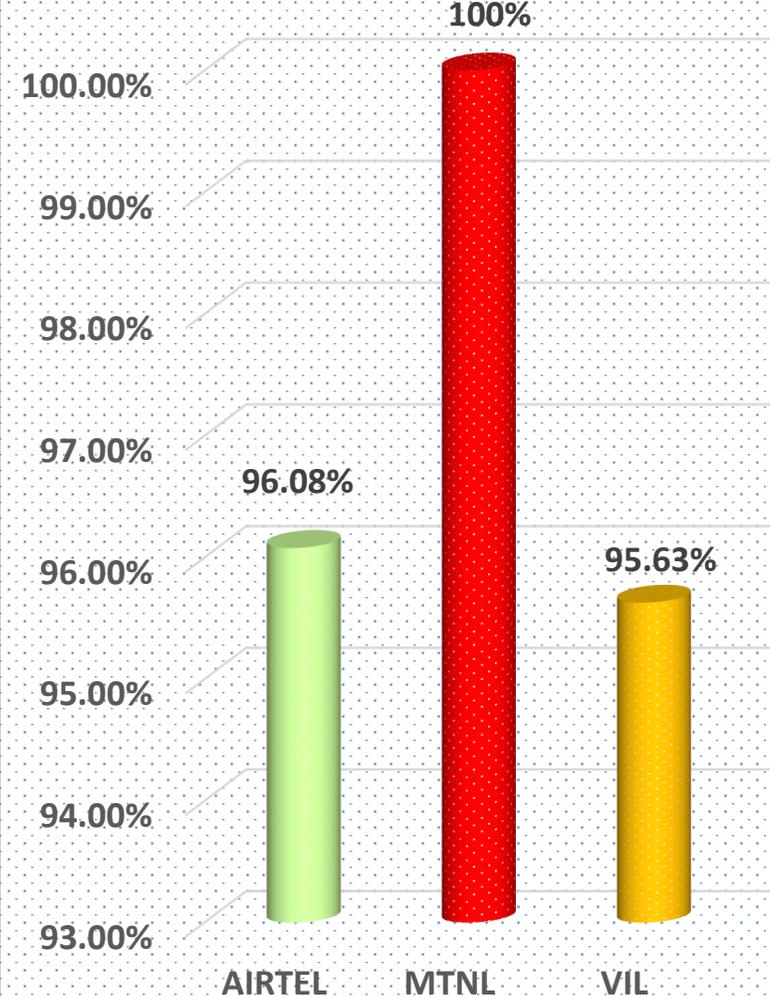# SUMMARY – VOICE CITY DYNAMIC IN 3G/2G (LOCKED MODE)
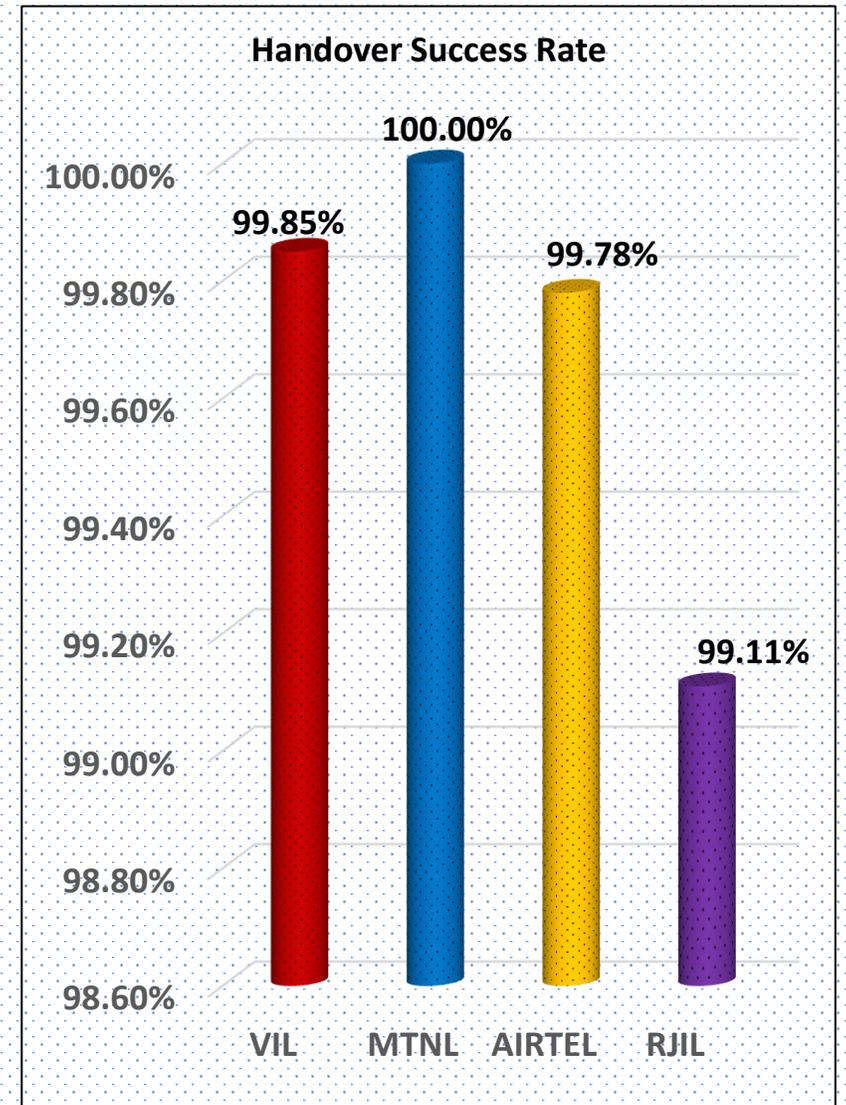
Call Setup Success Rate

- AIRTEL: 100.00%
- MTNL: 92.06%
- VIL: 99.32%

Drop Call Rate

- AIRTEL: 0.00%
- MTNL: 6.76%
- VIL: 1.01%

Handover Success Rate

- AIRTEL: 96.08%
- MTNL: 100%
- VIL: 95.63%
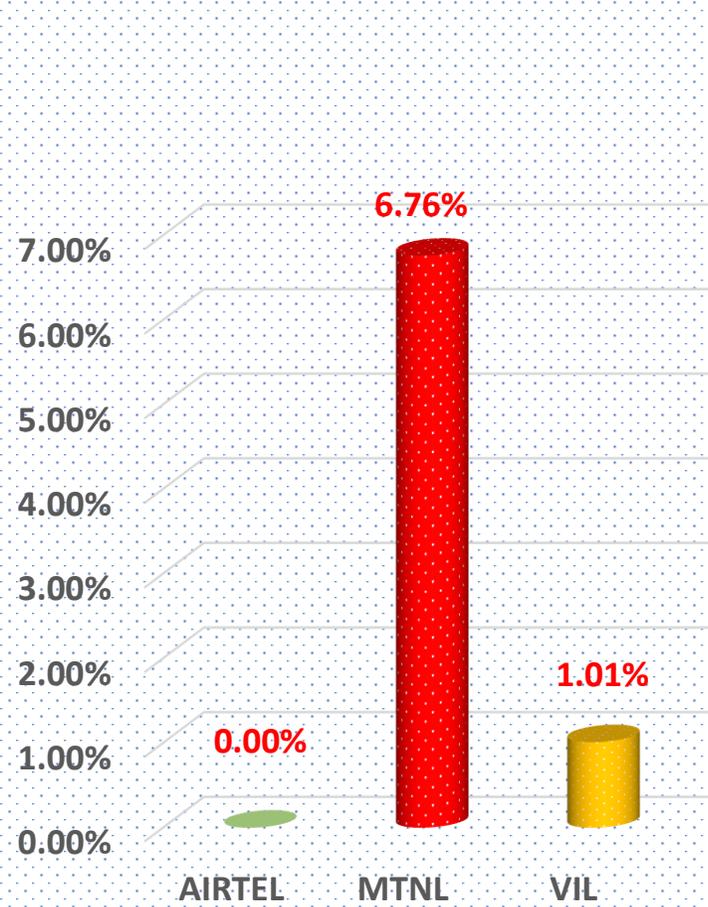
SUMMARY – VOICE CITY DYNAMIC IN 5G/4G/3G/2G (AUTO MODE)

Voice Call	VIL	MTNL	AIRTEL	RJIL
Call Attempt	298	353	299	277
Call Established	297	325	298	277
CSSR% (Accessibility)	99.66 %	92.06 %	100.00 %	100.00 %
Drop Call Rate (%)	0.33 %	6.76 %	0.00 %	0.00 %
Handover Success Rate (%)	99.85 %	100 %	99.78%	99.11
Silence Call Rate %	0.33 %	-	0 %	3.31 %
Speech Quality (Average MOS)	4.31	-	4.07	4.13

SUMMARY – VOICE CITY DYNAMIC IN 5G/4G/3G/2G (AUTO MODE)

Call Setup Success Rate

- VIL: 99.66%
- MTNL: 92.06%
- AIRTEL: 100.00%
- RJIL: 100.00%

Drop Call Rate

- VIL: 0.33%
- MTNL: 6.76%
- AIRTEL: 0.00%
- RJIL: 0.00%

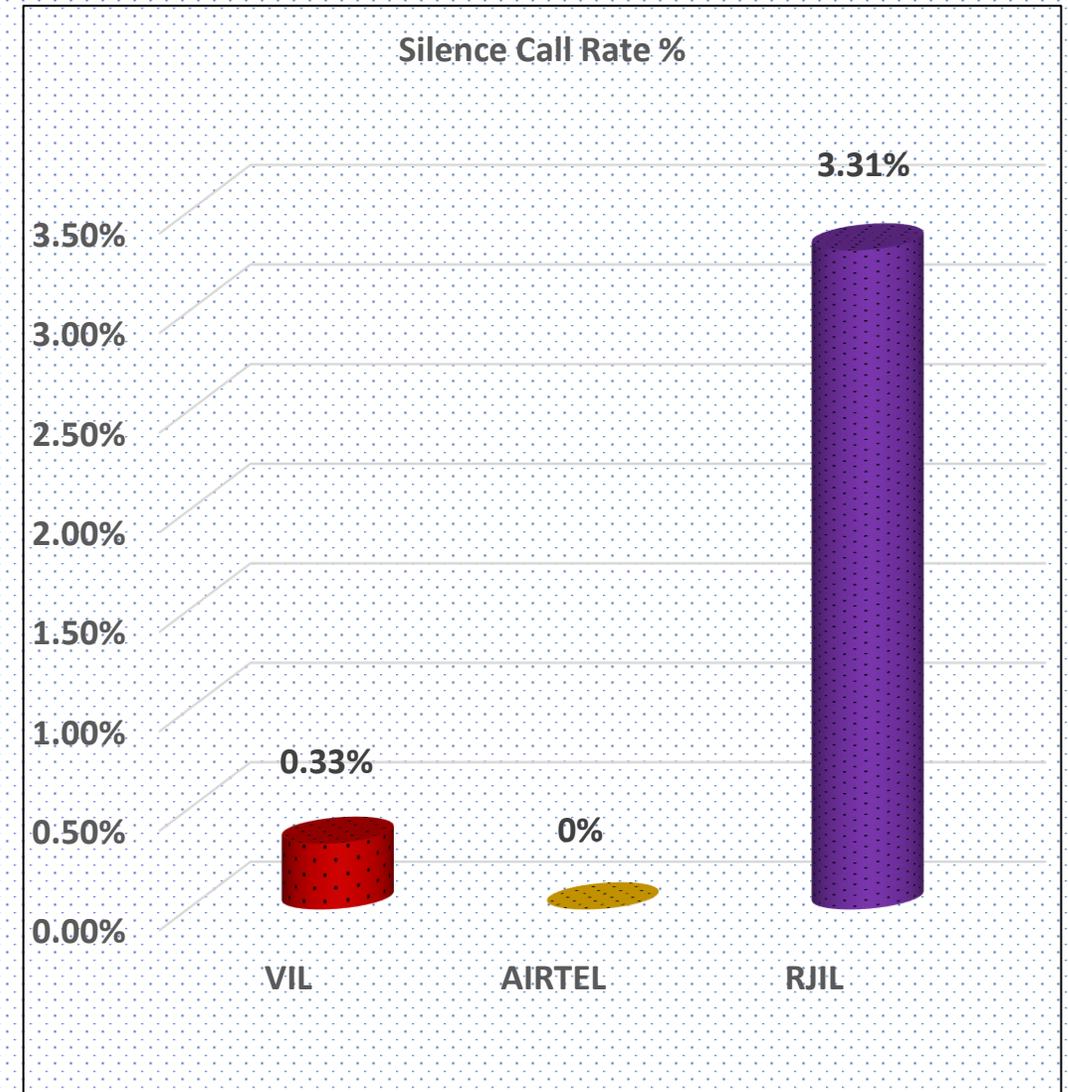**Handover Success Rate**

- VIL: 99.85%
- MTNL: 100.00%
- AIRTEL: 99.78%
- RJIL: 99.11%

SUMMARY – VOICE CITY DYNAMIC IN 5G/4G/3G/2G (AUTO MODE) (CONTD..)

Speech Quality (Average MOS)

- VIL: 4.31
- AIRTEL: 4.07
- RJIL: 4.13

Silence Call Rate %

- VIL: 0.33%
- AIRTEL: 0%
- RJIL: 3.31%
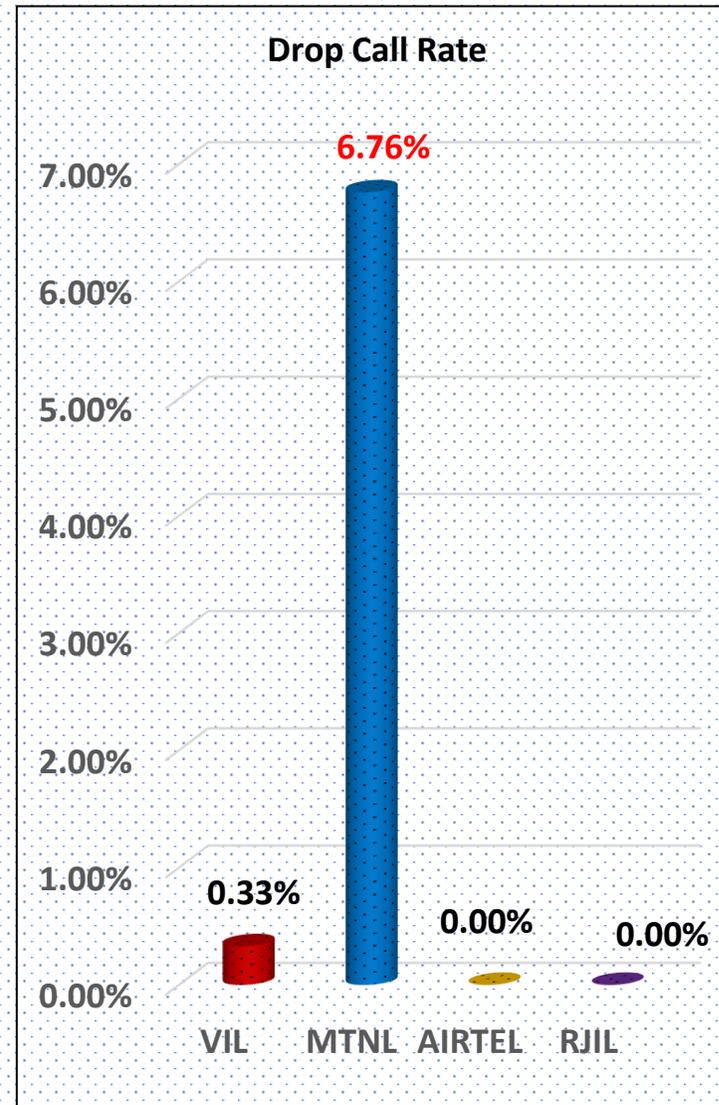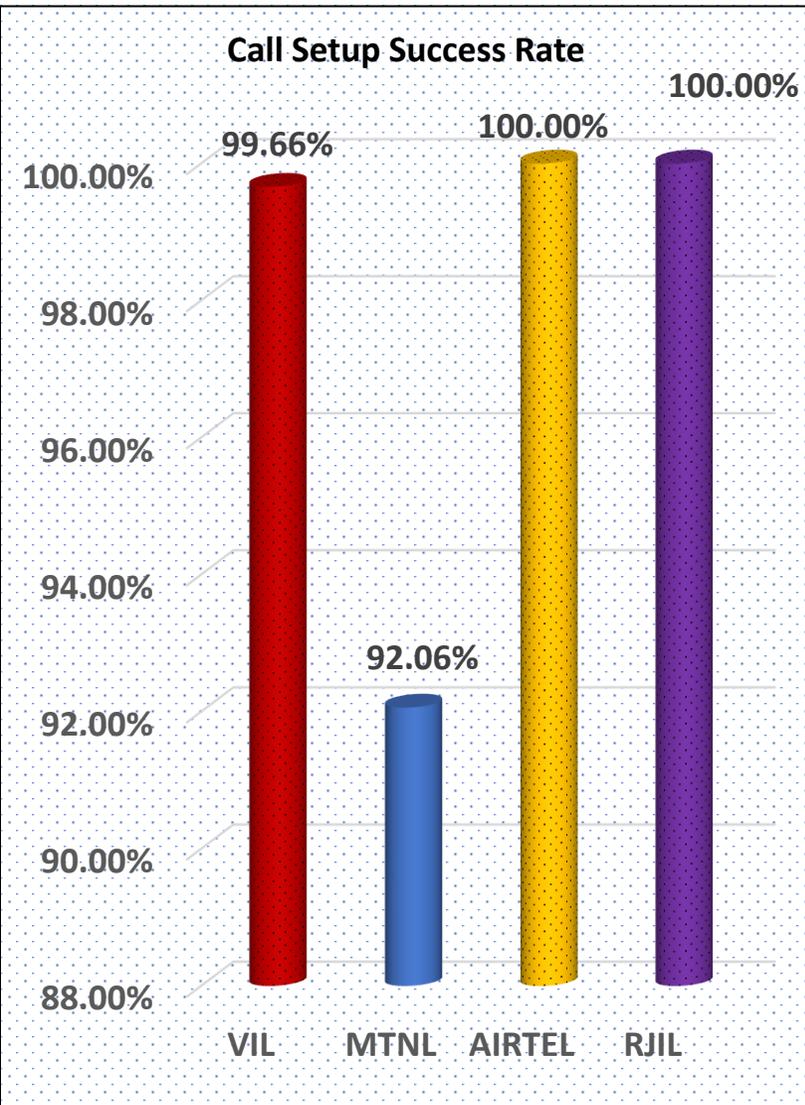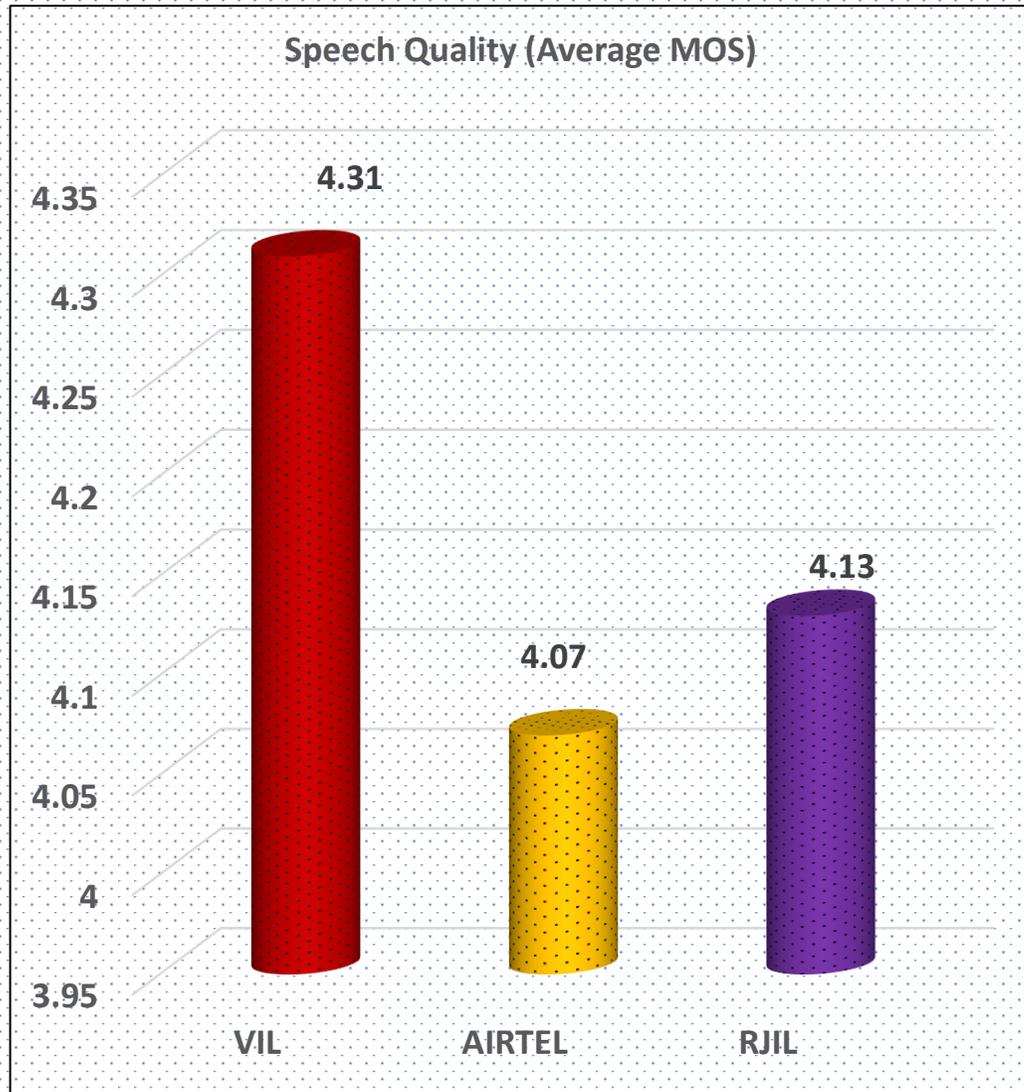
DATA SERVICE PERFORMANCE IN 5G/4G/3G/2G (AUTO MODE) - DYNAMIC

Average Download/Upload Speed - Dynamic

- VIL: Download (Mbps) 79.33, Upload (Mbps) 15.69
- MTNL: Download (Mbps) 3.366, Upload (Mbps) 1.405
- AIRTEL: Download (Mbps) 72.94, Upload (Mbps) 20.38
- RJIL: Download (Mbps) 175.47, Upload (Mbps) 42.44

Average Latency - Dynamic

- VIL: 22.88
- MTNL: 30.68
- AIRTEL: 9
- RJIL: 52.5

Average Jitter - Dynamic

- VIL: 0.97
- MTNL: 29.56
- AIRTEL: 7.26
- RJIL: 71.5
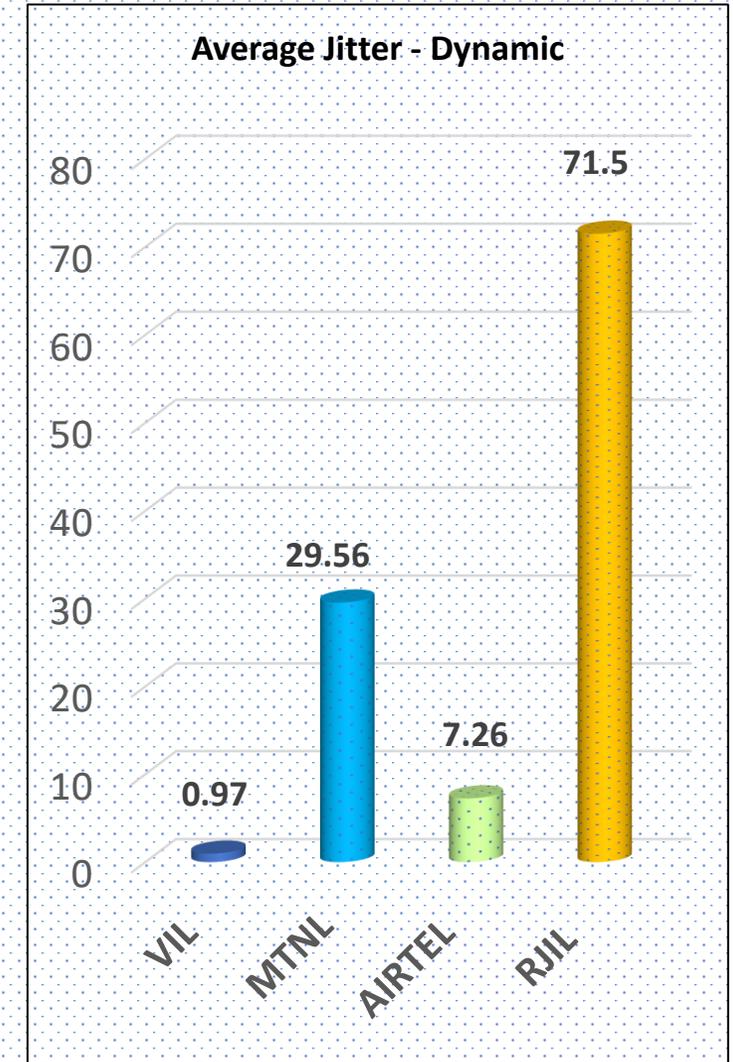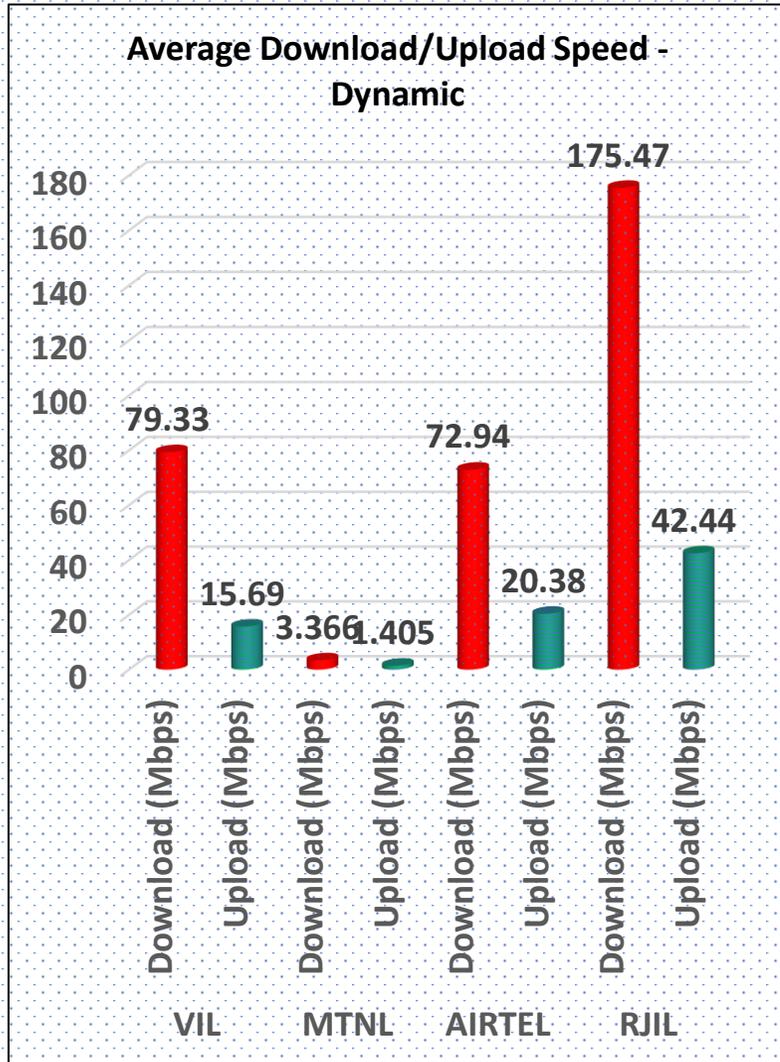
SUMMARY-VOICE SERVICE PERFORMANCE (5G/ 4G/ 3G/ 2G - AUTO MODE) – OVER ALL (STATIC-HOTSPOT)

Voice Call	AIRTEL	MTNL	RJIL	VIL
Call Attempt	60	72	60	60
Call Established	60	72	60	60
CSSR% (Accessibility)	100 %	100 %	100 %	100 %
No. of Drop Call	0	0	0	0
Drop Call Rate (%)	0 %	0 %	0 %	0 %
Call Setup Time Average (Sec.)	0.63	3.44	1.26	0.58

SUMMARY-DATA SERVICE PERFORMANCE (5G/ 4G/ 3G/ 2G - AUTO MODE) – OVER ALL (STATIC-HOTSPOT)

Data Service	AIRTEL	MTNL	RJIL	VIL
Average Download speed (Mbps)	39.51	3.217	85.3	63.80
Average Upload speed (Mbps)	35.99	1.742	43.6	18.33
Latency 50th percentile (ms)	8.5	29.73	28	16.99
Average Jitter (ms)	11.01	26.9	7.16	0.6
Packet Drop Rate (%)	0.33 %	0 %	0 %	0.04 %
Web browsing delay (sec)	10.73	3.49	2.48	2.98
Video Streaming performance for video (sec)	4.01	2.92	1.99	1.03

DATA SUMMARY AT HOTSPOT LOCATIONS: DOWNLOAD AND UPLOAD SPEED(IN MBPS)

S.No.	Hotspot Locations	AIRTEL		RJIL		VIL		MTNL	
		Download	Upload	Download	Upload	Download	Upload	Download	Upload
1.	Anand Vihar	15.75	43.98	425.01	53.46	19.03	1.69	2.312	2.534
2.	Dilshad Garden	51.38	52.17	242.9	98.3	11.78	1.1	2.486	1.707
3.	IP University	48.28	31.37	224.61	53	9.42	10.56	1.276	1.109
4.	Karkarduma Court	18.17	7.15	305	41.22	13.23	17.74	5.275	0.477
5.	Akshardham Temple	40.10	57.88	118.63	58.15	196.37	22.78	4.165	1.82
6.	Dharamshila Hospital	47.53	32.18	59.44	92.2	149.27	50.47	4.981	2.084

COVERAGE – VOICE CALLS

- Percentage of coverage samples for 2G ≥ -85 dBm

TSPs	2G	
	Airtel	**VIL**
Coverage %	**84.78 %**	**97.01 %**

- Percentage of coverage samples for 3G ≥ - 90 dBm

TSPs	3G
	MTNL
Coverage %	**28.35 %**

COVERAGE – VOICE CALLS (CONTD..)

- Percentage of coverage samples for 4G **≥** -110 dBm

TSPs	4G		
	Airtel	**RJIL**	**VIL**
Coverage %	**99.97%**	**99.32%**	**99.85%**

- Percentage of coverage samples for 5G **≥** -110 dBm

TSPs	5G	
	Airtel	**RJIL**
Coverage %	**97.87%**	**99.46%**

THANK YOU