

OADT Report of HP LSA

**(Dalhousie City and Pathankot to
Dalhousie Highway)**

May 2026

OADT Summary

S No.	LSA	Date	Location	Km
1.	HP	05-05-2025 to 08-05-2026	Dalhousie City and Pathankot to Dalhousie Highway	146

FINDINGS FOR HP LSA

Voice and Dynamic/Static Data Test Route

S.N	Date	Location/Area	Static Hotspot Locations
1.	05-05-2026	Pathankot to Dalhousie	NA
2.	06-05-2026	Dalhousie to Khajiar	Khajiar, Gandhi chowk
3.	07-05-2026	Banikhet to Bhalei Mata	Chamera Lake, Bhalei Mata

Drive Test Route Map



Key observations from Drive Test (Voice)

TSP	Network tested
Airtel	2G,4G & 5G
BSNL	2G,3G & 4G
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 BSNL.
CSSR %	≥98 %	All TSPs achieved the benchmark except BSNL.

Speech Quality (Average MOS)	VIL	BSNL	Airtel	RJIL
	4.03	-	4.003	3.4

Summary – Voice City Dynamic in 3G/2G (Locked Mode)

Voice Call	AIRTEL 2G	BSNL 3G/2G	VIL 2G
Call Attempt	125	115	115
Call Established	122	105	115
CSSR% (Accessibility)	95.08	91.4	100
Drop Call Rate (%)	4.90	8.69	0
Handover Success Rate (%)	98.94	96.29	96.15

Summary – Voice City Dynamic in 5G/4G/3G/2G

(Auto Mode)

Voice Call	VIL	BSNL	AIRTEL	RJIL
Call Attempt	111	128	115	147
Call Established	111	118	109	129
CSSR% (Accessibility)	100.00	95.25	98.26	87.75
Drop Call Rate (%)	0.90	7.81	8.19	13.95
Handover Success Rate (%)	90.48	95.65	99.21	94.52
Silence Call Rate %	0	4	2.60	3.33
Speech Quality (Average MOS)	4.03	Kit License Issue	4.003	3.4

Summary-Data Service Performance Dynamic in (5G/ 4G/ 3G/ 2G - Auto mode)

Data Service	AIRTEL	BSNL	RJIL	VIL
Average Download speed (Mbps)	82.14 (7.84)	7.68 (3)	101.13 (15)	22.31 (15)
Average Upload speed (Mbps)	13.23 (5.22)	4.55 (3)	23.44 (7)	9.10 (8)
Latency 50 th percentile (ms)	19.5	DT Kit issue	29	33.00
Average Jitter (ms)	17.75	DT Kit issue	NA	19.84
Packet Drop Rate (%)	0.29	DT Kit issue	4.04	3.6
Web browsing delay (sec)	NA	DT Kit issue	1.64	NA
Video Streaming performance for video (sec)	NA	NA	0.514	NA

Summary-Voice Service Performance (5G/ 4G/ 3G/ 2G - Auto mode) – Over all (Static- Hotspot)

Voice Call	AIRTEL	BSNL	RJIL	VIL
Call Attempt	40	40	40	40
Call Established	40	40	40	40
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.)	1.17	4.04	0.78	0.55

Summary-Data Service Performance (5G/ 4G/ 3G/ 2G - Auto mode) – Over all (Static- Hotspot)

Data Service	AIRTEL	BSNL	RJIL	VIL
Average Download speed (Mbps)	69.32 (7.84)	13.45 (3)	132.67 (15)	9.29 (15)
Average Upload speed (Mbps)	4.7(5.22)	14.33 (3)	21.45 (7)	7.61 (8)
Latency 50th percentile (ms)	17.5	54	28	41.5
Average Jitter (ms)	4.25	22.64	NA	8.08
Packet Drop Rate (%)	100	1.86	0.07	3.94%
Web browsing delay (sec)	5.08	8.11	1.64	2.71 sec
Video Streaming performance for video (sec)	3.98	2.1	0.514	1.44 sec

Data Summary at Hotspot Locations: Download and Upload Speed(in Mbps)

S.N	Hotspot Locations	AIRTEL		BSNL		RJIL		VIL	
		Download (7.84)	Upload (5.22)	Download (3)	Upload (3)	Download (15)	Upload (7)	Download (15)	Upload (8)
1.	Khajjiar	25.09	10.03	22.51	20.95	143.82	18.59	7.13	1.62
2.	Mall Road Dalhousie	91.93	6.05	4.58	2.15	25.62	18.45	13.73	18.57
3.	Chamera Lakhe	32.12	12.39	4.25	2.45	131.59	13.78	8.37	6.22
4.	Bhalei Temple	55.84	21.92	4.27	2.05	43.25	8.56	7.91	4.03

Coverage – Voice Calls

- Percentage of coverage samples for 2G $\geq$ -85 dBm

TSPs	2G		
	Airtel	VIL	BSNL
Coverage%	57.82%	51.3%	NA

- Percentage of coverage samples for 3G $\geq$ - 90 dBm

TSPs	3G
	BSNL
Coverage%	19.96

Coverage – Voice Calls (Contd..)

- Percentage of coverage samples for 4G $\geq$ -110 dBm

TSPs	4G			
	Airtel	RJIL	VIL	BSNL
Coverage %	95.63	78.24	86.19	16.88

- Percentage of coverage samples for 5G $\geq$ -110 dBm

TSPs	5G	
	RJIL	Airtel
Coverage %	96.57	88.21

THANK YOU