

Operator Assisted Drive Test Report

Bharatpur & Dholpur City 25th to 28th Jun'2024 By TRAI Regional office Jaipur

<u>Key Performance Indicators:</u> All TSPs have met the Drop Call Rate (DCR) benchmark of 2% . All TSPs have met the Call Setup Success Rate (CSSR) of 95%.

The Operator Assisted Drive Test has been carried out by Regional Office, Jaipur with the help of Service Providers in Bharatpur & Dholpur City and Hotspot from 09:00 AM to 8:00 PM on 25th to 28th Jun'2024. The drive test covered drive route of 90 KMs & 6 no hotspots over a period of 4 day. Approximately 220 calls were made for each of the 7 networks: three 2G networks, one 3G networks and three LTE networks covering four TSPs.

Overview

Voice Summary

Data Summary



Regional Office, TRAI Jaipur conducted Operator Assisted Drive Test on 25th to 28th Jun'2024 covering Bharatpur & Dholpur city. The performance of Airtel, BSNL, Vodafone Idea and Jio was monitored across various technologies (2G, 3G and 4G). The test results obtained from these drive tests were utilized to assess the network quality for Voice and Data services.

Voice: Coverage, Quality, Handover Success Rate, Call Setup Success Rate, Drop Call Rate and Block Call Rate.

Data: Download Throughputs, Drive Test Details :

Voice Tests: Calls were made for 90 sec duration with a wait time of 10 sec between calls in all technologies. The drive test covered a drive route of approximately 90 KMs. Approximately 220 calls were made for each of the Jio networks: three 2G (Lock Mode) networks, one 3G (Dual mode) networks and three VoLTE networks covering 4 unique TSPs.

Data Tests:

Dynamic data test was conducted for 90 kms for download throughput in all technologies. 2G – measurement – UE Locked in 2G file size- 500KB

- 3G measurement UE in 3G File Size- 20MB
- 4G measurement UE in LTE File Size- 40MB

Static data tests on 5 hotspots

- 1. Bharatpur Bus Stand
- 2. Shri Bankey Bihari Ji Temple, Bharatpur
- 3. Laxman Mandir, Bharatpur
- 4. Dholpur Bus Stand
- 5. Dholpur Junction, Railway Station
- 6. Nihal Tower (Ghantaghar), Dholpur

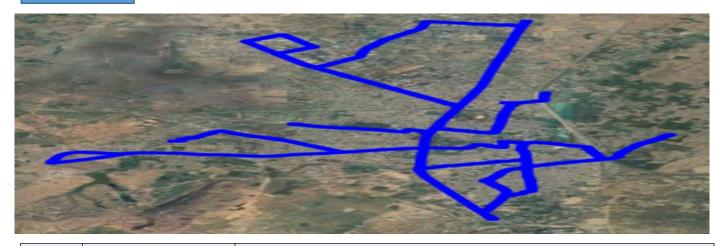
Service	Specifications
Download	2G (Locked) - 500KB, 3G (Dual) - 20 MB, 4G (Free) - 40 MB
Upload	2G (Locked) - 100KB, 3G (Dual) - 5 MB, 4G (Free) - 10 MB
Web Browsing	3 links of e/m commerce website www.amazon.in, www.flipkart.com and PayTm $% \left({{\left[{{\left[{{\left[{\left[{\left[{\left[{\left[{\left[{\left[$
Latency	32 Bytes on www.google.com

Overview

Voice & Dynamic Data Test Drive Route



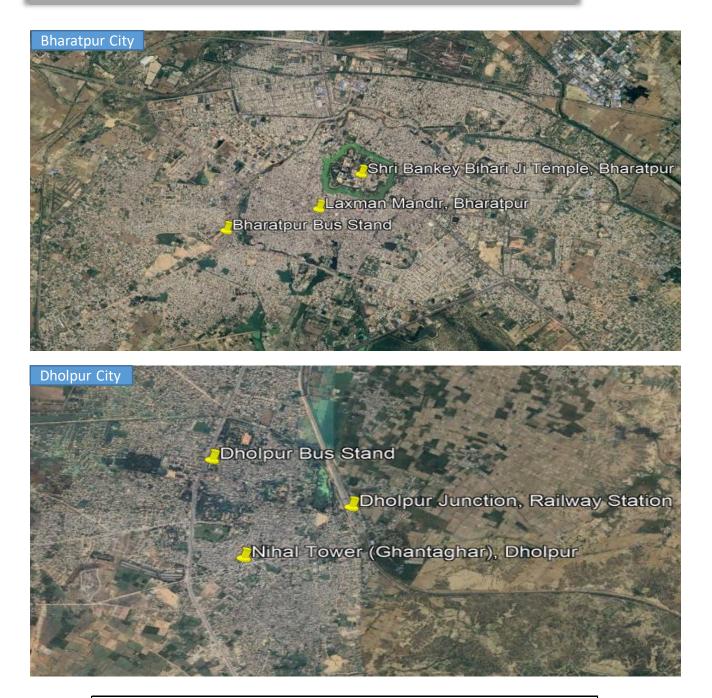
Dholpur City



Date	Test Scenario	Area to be Covered
25-Jun-24	Hot Spots- 2G/3G/4G Static Data Tests	Static Hotspot – 1) Bharatpur Bus Stand, 2) Shri Bankey Bihari Ji Temple, Bharatpur, 3) Laxman Mandir, Bharatpur.
26-Jun-24	2G/3G/4G Voice and 3G/4G Dynamic Data	Starting point: BSNL office—Bijali Ghar, Kali Bagichi Bus Stand, Bharatpur Bus stand, Kummher Gate, Red Cross Circle, Lohagarh Fort, Shri Bihari Ji Temple, Red Cross Circle, BSNL Office.
27-Jun-24	2G/3G/4G Voice and 3G/4G Dynamic Data	Starting point: Dholpur Bus Stand, Gulab Bag Circle, Nihal Tower (Ghantaghar), Jagan Circle, Dholpur Junction Railway Station, Lal Bazar, Gulab Bag Circle.
28-Jun-24	Hot Spots- 2G/3G/4G Static Data Tests	Static Hotspot – 1) Dholpur Bus Stand, 2) Dholpur Junction, Railway Station, 3) Nihal Tower (Ghantaghar), Dholpur.

Overview

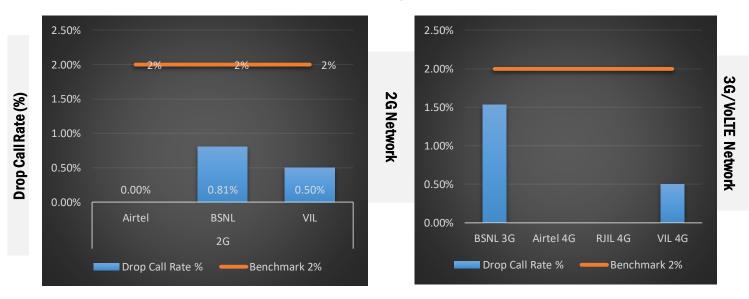
Data Service Test - Static Locations



Hotspot Locations 1.Bharatpur Bus Stand 2.Shri Bankey Bihari Ji Temple, Bharatpur 3.Laxman Mandir, Bharatpur 4.Dholpur Bus Stand 5.Dholpur Junction, Railway Station 6.Nihal Tower (Ghantaghar), Dholpur

Voice Calls

QoS compliance of the TSPs in **Bharatpurto Dholpur City** for Voice across technologies 2G/3G/4G-VoLTE:





KPIs	2G		3G	4G			
INF15	Airtel	BSNL	VIL	BSNL	Airtel	RJIL	VIL
Drop Call Rate %	0.00%	0.81%	0.50%	1.53%	0.00%	0.00%	0.50%
Block Call Rate %	2.00%	1.62%	0.50%	1.92%	0.00%	0.00%	0.00%

a) All TSPs have met the 2% QOS benchmark of Drop Call Rate (DCR%).

b) Call Block Rate (CBR%) benchmark of 3% was achieved by all TSP's.

Voice Calls

Key Observations

Coverage

a) Percentage of coverage samples for $2G \ge -85$ dBm.

TEDo	2G		
TSPs	Airtel	BSNL	VIL
Coverage %	95.74%	97.2%	88.51%

b) Percentage of coverage samples for $3G \ge -90$ dBm

TSPs	3G
	BSNL
Coverage %	88.26%

c) Percentage of coverage samples for LTE \geq -110 dBm.

TSPs	VoLTE				
	Airtel	JIO	VIL		
Coverage %	99.93%	99.92%	98.28%		

d) Percentage of time spent on 3G/4G network

TEDa	3G	VoLTE		
TSPs	BSNL	Airtel	JIO	VIL
Time spent on 3G/4G Network %	99.67%	100%	100%	100%

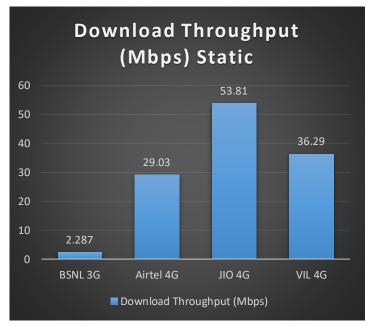
Data Services Static

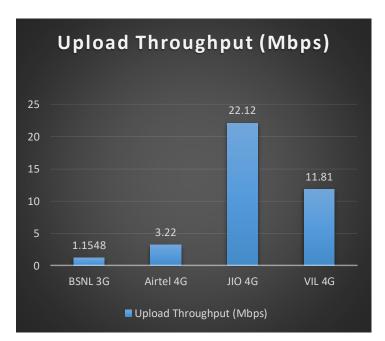
Key Observations

Data was tested at 5 locations .Following services were tested: Data Download/Upload, Latency (www.google.com), and Web browsing (Flipkart, Amazon, Paytm)

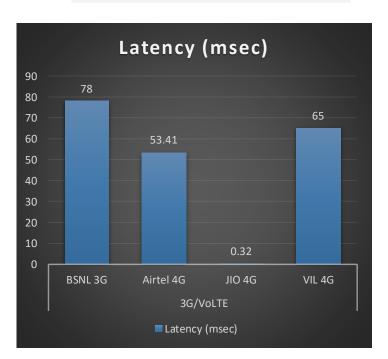
Data Download and Upload Performance Static (Mbps)

3G/4G/ Network:

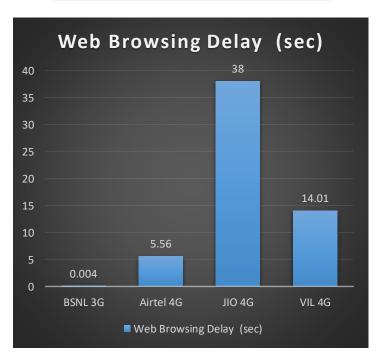




Latency (ms)



Web Browsing (Sec)



Data Services Dynamic

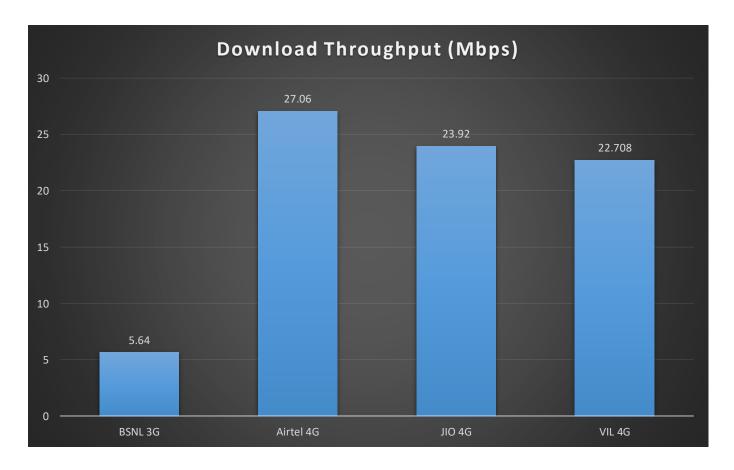
Key Observations

Dynamic Data was tested for whole voice route. Download Throughput was tested.

Data Download Performance (kbps) - Dynamic

3G/4G/ Network:

	3G/VoLTE				
Data Services Dynamic	BSNL3G	Airtel 4G	JIO 4G	VIL 4G	
Download Throughput (Mbps)	5.64	27.06	23.92	22.71	



Summary

	2G				
Voice Call	Airtel	BSNL	VIL		
Call Attempt	212	246	205		
Blocked Call Rate (%)	2%	0.87%	0.5%		
CSSR% (Accessibility)	98%	99.13%	99.5%		
Drop Call Rate (%)	0%	1.62%	0.5%		
Mobility HOSR (%)	97.9%	97.78%	99.57%		
Rx Quality (%)	96.45%	98.78%	95.72%		
Average CST Sec	3.36	3.41	1.743		

	3G/VoLTE					
Voice Call	BSNL 3G	Airtel VoLTE	JIO VoLTE	VIL VoLTE		
Call Attempt	260	223	219	205		
Blocked Call Rate (%)	1.54%	0%	0%	0%		
CSSR% (Accessibility)	98.46%	100%	100%	100%		
Drop Call Rate (%)	1.92%	0%	0%	0.5%		
Mobility HOSR (%)	95.24%	100%	99.38%	100%		
Rx Quality (%)	95.28%	91.19%	90.78%	95.21%		
Average CST Sec	3.14	1.88	0.65	0.496		

Summary

Doto Somuioco Statio	2G			
Data Services Static	Airtel	BSNL	VIL	
Download Throughput (kbps)	142.25	108.16	266.6	
Upload Throughput (kbps)	74.79	37.46	190.76	
Web Browsing Delay (sec)	73.65	0.003	62.355	
Latency (msec)	183.25	136	171.17	

	3G / 4G				
Data Services Static	BSNL 3G	Airtel 4G	JIO 4G	VIL 4G	
Download Throughput (Mbps)	2.287	29.03	53.81	36.29	
Upload Throughput(Mbps)	1.1548	3.22	22.12	11.81	
Video Streaming Delay (sec)	3.685	0	1.29	0	
Web Browsing Delay (sec)	0.004	5.56	38	14.01	
Latency (msec)	78	53.41	0.32	65	

Pue Stand Pharatour	2G				
Bus Stand Bharatpur	Airtel	BSNL	VIL		
Download Throughput (kbps)	120.02	108.16	252.15		
Upload Throughput (kbps)	92.5	37.46	160.89		
Web Browsing Delay (sec)	78.3	0.003	62.15		
Latency (msec)	193.56	136	220		

Dihari li Tamula	2G				
Bihari Ji Temple	Airtel	BSNL	VIL		
Download Throughput (kbps)	142.2	120.69	284.54		
Upload Throughput (kbps)	139.5	27.44	154.82		
Web Browsing Delay (sec)	74.2	0.0036	51.63		
Latency (msec)	232.08	158	140		

Lovmon li Tomplo	2G				
<u>Laxman Ji Temple</u>	Airtel	BSNL	VIL		
Download Throughput (kbps)	185.43	63.74	262.66		
Upload Throughput (kbps)	94.27	34	216.09		
Web Browsing Delay (sec)	69.58	0.003	61.383		
Latency (msec)	133.87	138	166		

Dholpur Puc Stand	2G				
Dholpur Bus Stand	Airtel	BSNL	VIL		
Download Throughput (kbps)	138.43	158.71	262.57		
Upload Throughput (kbps)	53.9	16.76	204.72		
Web Browsing Delay (sec)	148.21	0.026	76.897		
Latency (msec)	318.14	188	170		

	2G		
Dholpur Junction	Airtel	BSNL	VIL
Download Throughput (kbps)	184.83	209.51	240.77
Upload Throughput (kbps)	74.15	27.28	279.83
Web Browsing Delay (sec)	82.62	0.003	65.753
Latency (msec)	257.87	174	160

Nibel Tewer (Dhelpur)	2G				
<u>N</u> ihal Tower (Dholpur)	Airtel	BSNL	VIL		
Download Throughput (kbps)	182.63	93.19	296.91		
Upload Throughput (kbps)	94.45	11.13	128.2		
Web Browsing Delay (sec)	63.2	0.003	56.32		
Latency (msec)	196.1	180	171		

Data Services static

Due Otend Dhenethum	3G			4G	
Bus Stand Bharatpur	BSNI	_ /	Airtel	JIO	VIL
Download Throughput (mbps)	2.287	7 2	24.63	59.66	38.95
Upload Throughput (mbps)	0.11		4.97	21.92	9.91
Video Streaming Delay (Secs.)	0		0	1.4	0
Web Browsing Delay (sec)	0.004 5.92		5.92	40	14.792
Bihari Ji Temple	3G			4G	
Binari or remple	BSNL	Air	el	JIO	VIL
Download Throughput (mbps)	2.643 28.76		76	59.79	36.22
Upload Throughput (mbps)	0.29	0.29 14.31		22.94	16.83
Video Streaming Delay (Secs.)	0	0 0		1.28	0
Web Browsing Delay (sec)	1.055 6.15		5	39	14.61
Latency (msec)	92 62.5		.5	0.32	45
	3G		4G		
<u>Laxman Ji Temple</u>	BSNL	-	Airtel	JIO	VIL

<u>Laxman Ji Temple</u>	BSNL	Airtel	JIO	VIL
Download Throughput (mbps)	2.41	36.23	39.24	31.8
Upload Throughput (mbps)	0.17	12.62	22.86	16.76
Video Streaming Delay (Secs.)	0	0	1.21	0
Web Browsing Delay (sec)	0.03	7.85	41	13.608
Latency (msec)	93.66	65.53	0.32	63

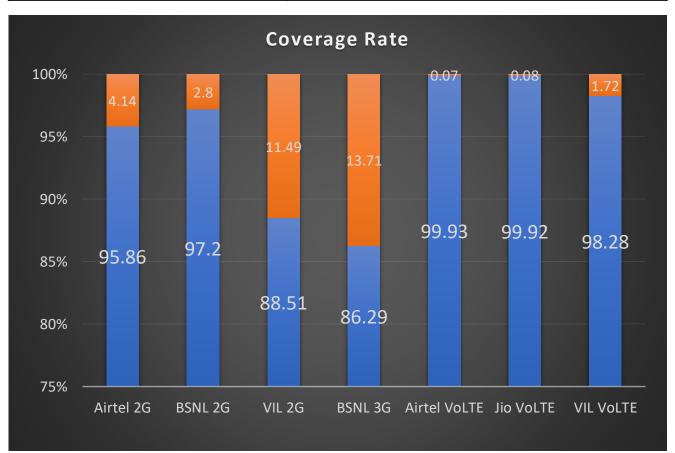
Data Services static

Dhelmur Due Stend	3G		4G	
Dholpur Bus Stand	BSNI	_ Airtel	JIO	VIL
Download Throughput (mbps)	1.24	30.65	55.43	35.17
Upload Throughput (mbps)	0.083	8 0.83	20.26	8.72
Video Streaming Delay (Secs.)	0	0	1.25	0
Web Browsing Delay (sec)	0.003	6.59	39	13.799
Latency (msec)	138	67.1	0.32	78
Dhelmur Junetien	3G		4G	
Dholpur Junction	BSNL	Airtel	JIO	VIL
Download Throughput (mbps)	1.32	42.58	53.03	38.94
Upload Throughput (mbps)	0.22	0.3	21.25	12.02
Video Streaming Delay (Secs.)	0	0	1.29	0
Web Browsing Delay (sec)	0.026 0		36	13.676
Latency (msec)	134	0	0.3	57

	3G		4G	
<u>Nihal Tower (</u> Dholpur)	BSNL	Airtel	JIO	VIL
Download Throughput (mbps)	0.67	40.08	55.71	36.64
Upload Throughput (mbps)	0.076	0.27	23.5	6.6
Video Streaming Delay (Secs.)	0	0	1.33	0
Web Browsing Delay (sec)	0.003	6.86	33	13.6
Latency (msec)	138	71.67	0.31	77

RF Coverage relates to the geographical footprint within the system that has sufficient RF signal strength to provide for a call session. The Coverage rate is calculated on the basis of % of samples in which the Rx level \geq -85 dBm, RSCP is \geq -90 dBm & RSRP \geq -110dBm. The details are as follows.

TSP	Coverage Rate %
Airtel 2G	95.86%
BSNL 2G	97.2%
VIL 2G	88.51%
BSNL 3G	86.29%
Airtel VoLTE	99.93%
Jio VoLTE	99.92%
VIL VoLTE	98.28%



TSP-AIRTEL				
Technology	Coverage %			
2G	95.86%			

2G

			RxLevel	Dhormal the		0 m	SACH T
	(0%)	(0)	[-95, >=Min)	Senthra 2	l load Google Maps correctly.	terest in the second	Matendra JS For Motors Bh
Over	(2.67%) (16.32%) (81.01%)	(162) (992) (4924)	[-85, >=-95) [-75, >=-85] [Max, >=-75]	Yani Pen Stationologiment purposes only trock-ung Stational Hanning Stational Stational Stationa	vebsre? OK	For develop Do you can this websit	evelopment purposes only Bong
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2G					
Overall RxLevel	# Samples	% PDF	Legend s		
[Max, >=-75]	4924	81.01%			
[-75, >=-85)	992	16.32%			
[-85, >=-95)	162	2.67%			
[-95, >=Min)	0	0.00			
Total	6078	100%			

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e cry Por devicements parcelland in the western OK protection of parcelland in the method of the parcelland in	Overall RxLevel	# Samples	% PDF	Legen ds
Re only For development purposes only For development purposes only Port Mark To Po	[Max, >=-75]	3796	72.50%	
Text shared of the second seco	[-75, >=-85)	1134	21.66%	
	[-85, >=-95)	291	5.56%	
Machanal Datasan Machanal Datasan Set of the	[-95, >=Min)	15	0.28%	
es entry For development purposes only For development purposes o	Total	5236	100%	

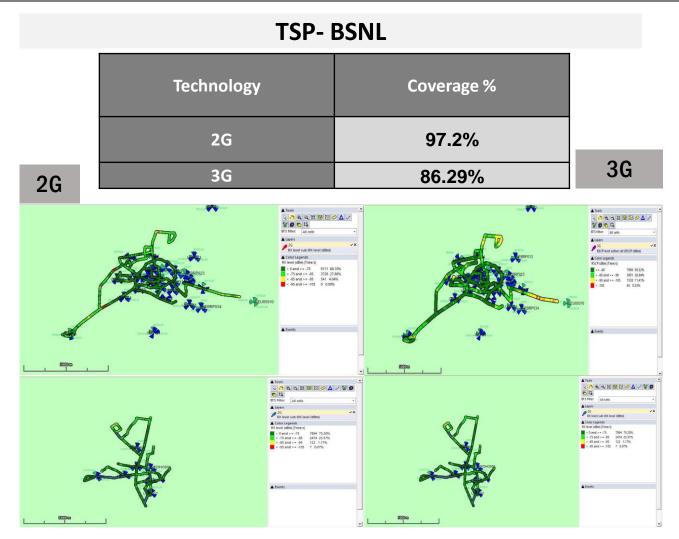
TSP-AIRTEL

VoLTE	Technology	Coverage %
	VoLTE	99.93%

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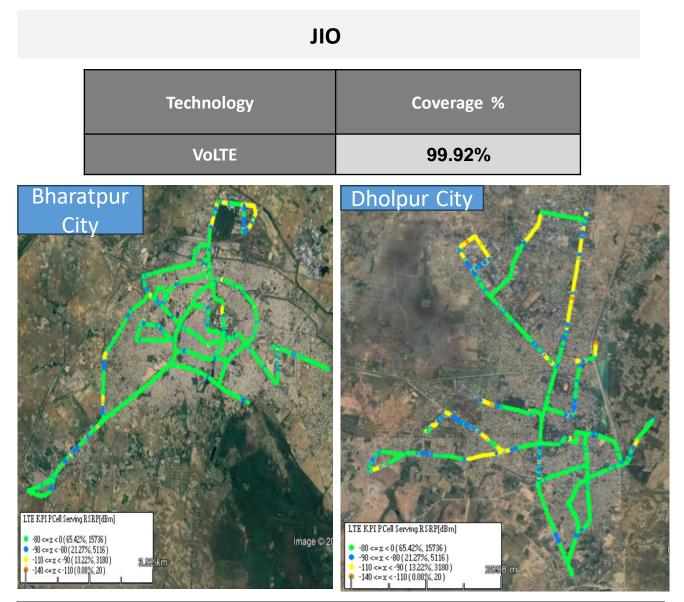
VoLTE					
Overall RSRP	# Samples	% PDF	Legen ds		
[Max, >=-80]	2670	43.50%			
[-80, >=-90)	2659	43.32%			
[-90, >=-110)	809	13.18%			
[-110, >=Min)	0	0.00%			
Total	6138	100%			

	(0.13%)		VoLTE		
es only For development our offer and the set of the se	(23.8%) (49.62%) (26.45%)	Overall RSRP	# Samples	% PDF	Legen ds
In a cry For development purposes only For development purposes on the format purposes only For development purposes on the format purpos		[Max, >=-80]	1431	26.45%	
		[-80, >=-90)	2685	49.62%	
		[-90, >=-110)	1288	23.80%	
A text we design a		[-110, >=Min)	7	0.13%	
es cety. For development purposes only For development purposes only For development purposes only For development of		Total	5411	100%	

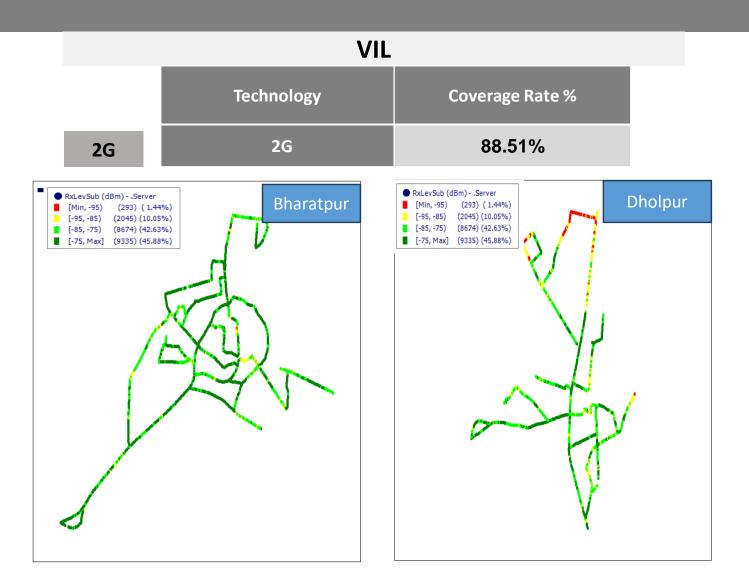


	2G		
Overall RxLevel	# Samples	% PDF	Legends
[Max, >=-75]	17143	71.28%	
[-75, >=-85)	6233	25.92%	
[-85, >=-95)	664	2.76%	
[-95, >=Min)	11	0.04%	
Total	24051	100%	

	3G		
Overall RSCP	# Samples	% PDF	Legends
[Max, >=-80]	13998	57.86%	
[-80, >=-90)	6878	28.43%	
[-90, >=-105)	3237	13.38%	
[-105, >=Min)	79	0.33%	
Total	24192	100%	



VoLTE /					
Overall RSRP	# Samples	% PDF	Legends		
[Max, >=-80]	15736	65.43%			
[-80, >=-90)	5116	21.27%			
[-90, >=-110)	3180	13.22%			
[-110, >=Min)	20	0.08%			
Total	24052	100%			



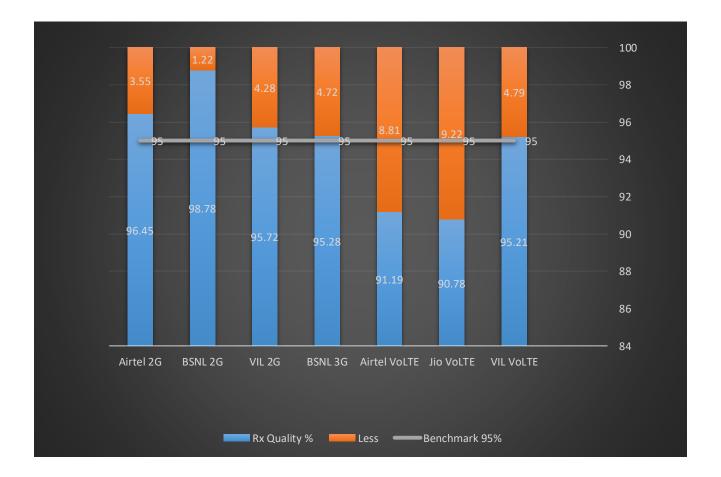
2G					
Overall RxLevel	# Samples	% PDF	Legends		
[Max, >=-75]	9335	45.88%			
[-75, >=-85)	8674	42.63%			
[-85, >=-95)	2045	10.05%			
[-95, >=Min)	293	1.44%			
Total	20347	100%			

VIL Coverage Rate % Technology VoLTE/ VoLTE 98.28% Serving Cell RSRP (dBm) Serving Cell RSRP (dBm) Dholpur Bharatpur [Min, -110) (370) (1.72%) [Min, -110) (370) (1.72%) [-110, -90) (10013) (46.56%) [-110, -90) (10013) (46.56%) [-90, -80) (7585) (35.27%) [-90, -80) (7585) (35.27%) [-80, Max] (3538) (16.45%) (3538) (16.45%) [-80, Max]

VoLTE /					
Overall RSRP	# Samples	% PDF	Legends		
[Max, >=-80]	3538	16.45%			
[-80, >=-90)	7585	35.27%			
[-90, >=-110)	10013	46.56%			
[-110, >=Min)	370	1.72%			
Total	21506	100%			

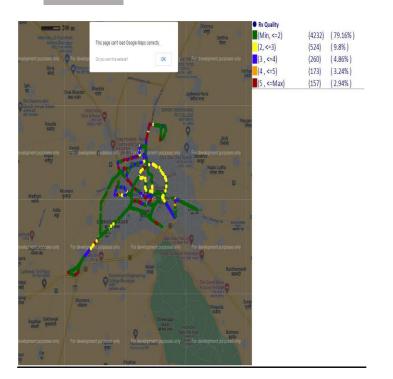
For measuring voice quality, as per the QoS norms, RxQual <=5 for GSM TSPs, EcNo >= -14 dBm for 3G TSP sand SINR >0 in case of VoLTE is considered to be good, where as quality beyond this benchmark is considered to be bad. The benchmark should usually be \geq 95%.

<u>TSP</u>	Rx Quality %
Airtel 2G	96.45%
BSNL 2G	98.78%
VIL 2G	95.72%
BSNL 3G	95.28%
Airtel VoLTE	91.19%
Jio VoLTE	90.78%
VIL VoLTE	95.21%



Airtel		
Technology	Rx Quality %	
2G	96.45%	

2G



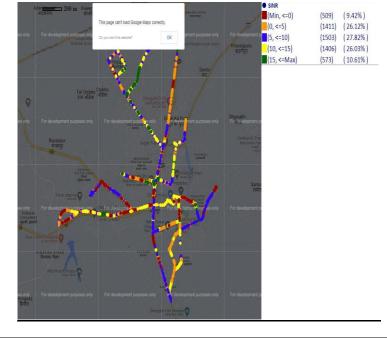
Overall Rx Quality	# Samples	% PDF	Legend s
(Min, <=2)	4232	79.16%	
(2, <=3)	524	9.80%	
(3 , <=4)	260	4.86%	
(4 , <=5)	173	3.24%	
(5 , <=Max)	157	2.94%	
Total	5346	100%	

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norty For development pursous any For development pursous any For development pursous any For development pursous any	(Min, <=2)	3701	80.11%	
Rupapur Pering Pering	(2, <=3)	379	8.20%	
All Control Co	(3 , <=4)	223	4.83%	
n off Print and Print and Prin	(4 , <=5)	125	2.71%	
New Works of the Second Se	(5 , <=Max)	192	4.15%	
es only enables feder feder brengt h for threetopment purposes only brengt h for threetopment purposes only brengt h for threetopment purposes only	Total	4620	100%	

	Airtel		
	Technology	Rx Quality %	
VoLTE	VoLTE	91.19%	

Sector 2 (U m) Sink Maximum 2.0 in mater This page cartitad Googe Haps correctly. Sector Sector Sector Maximum 2.0 in mater This page cartitad Googe Haps correctly. OK Fin the for consequences only Sink Maximum 2.0 in mater This page cartitad Googe Haps correctly. OK Fin the for consequences only Sink Maximum 2.0 in mater This page cartitad Googe Haps correctly. OK Fin the for consequences only Sink Maximum 2.0 in mater This page cartitad Googe Haps correctly. OK Fin the for consequences only Sink Maximum 2.0 in mater This page cartitad Googe Haps correctly. OK Fin the for consequences only Sink Maximum 2.0 in mater This page cartitad Googe Haps correctly. Fin the for consequences only Fin the for consequ	Overall SINR	# Samples	
And a set of the set o	(Min, <=0)	503	
Netsymet purpase of a first extension of the	(0, <=5)	1607	
Matron person mild / Add count 0 count 0 co	(5, <=10)	1787	
The Visit Part Part Part Part Part Part Part Par	(10, <=15)	1417	
B O primar	(15, <=Max)	819	
The set of	Total	6133	

Overall SINR	# Sample s	% PDF	Legends
(Min, <=0)	509	9.42%	
(0, <=5)	1411	26.12%	
(5, <=10)	1503	27.82%	
(10, <=15)	1406	26.03%	
(15, <=Max)	573	10.61%	
Total	5402	100%	



Legend

S

% PDF

8.20%

26.20%

29.14%

23.10%

13.35%

100%

	BSNL		
2G	Technology 2G 3G	Rx Quality % 98.78% 95.28%	3G
	Image: Section 2000 Image: Section 2000		Image: State of the state
	▲ Toold ▲ ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	, The second sec	Ligen State State:
Overall Rx Quality	# Samples	% PDF	Legends
(Min, <=4)	20659	96.94%	
(4, <=5)	392	1.84%	
(5, <=Max)	260	1.22%	
Total	21311	100%	
Overall Ec/No	# Samples	% PDF	Legends
(Min, <=-11)	17095	70.68%	
(-11 , <=-14)	5951	24.60%	
(-14 , <=Max)	1140	4.72%	
Tetal	24496	1000/	

24186

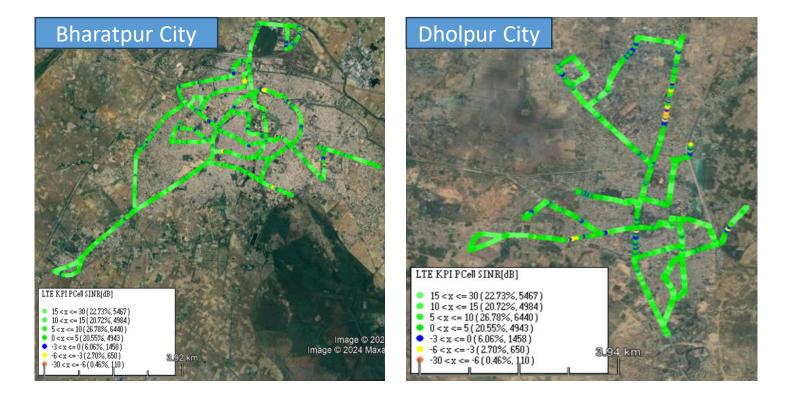
100%

Total

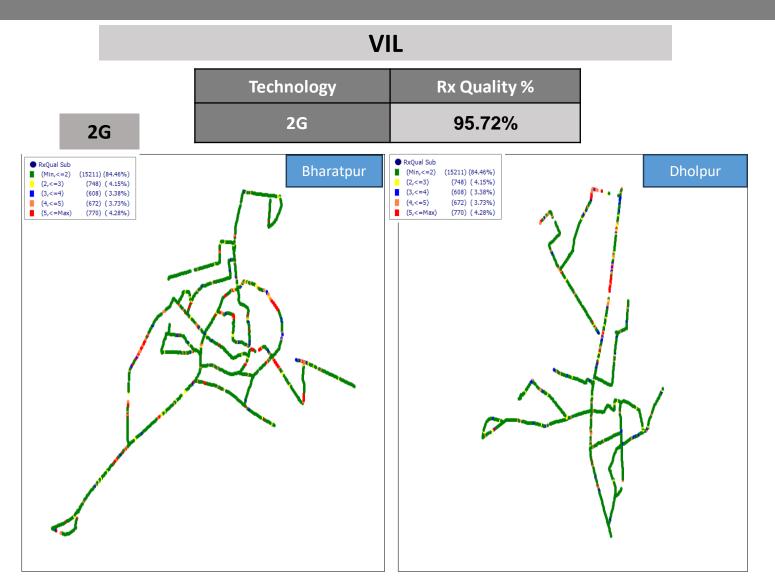
Quality Details

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	•	~	-

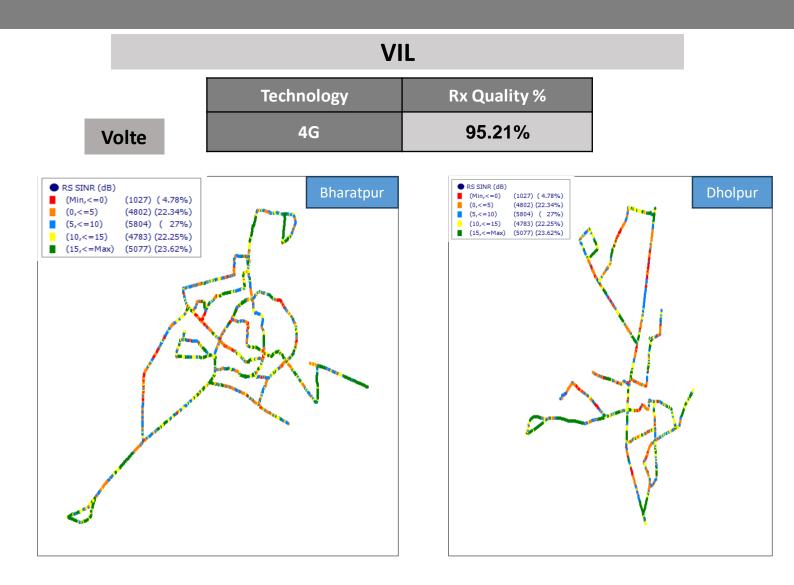
Technology	Rx Quality %
VoLTE	90.78%



Overall SINR	# Samples	% PDF	Legends
(Min, <=-6)	110	0.46%	
(-6, <=-3)	650	2.7%	
(-3, <=0)	1458	6.06%	
(0, <=5)	4943	20.55%	
(5, <=10)	6440	26.78%	
(10, <=15)	4984	20.72%	
(15, <=Max)	5467	22.73%	
Total	24052	100%	



Overall Rx Quality	# Samples	% PDF	Legends
(Min, <=2)	15211	84.46%	
(2, <=3)	748	4.15%	
(3 , <=4)	608	3.38%	
(4 , <=5)	672	3.73%	
(5 , <=Max)	770	4.28%	
Total	18009	100%	



Overall SINR	# Samples	% PDF	Legends
(Min, <=0)	1027	4.78%	
(0, <=5)	4802	22.34%	
(5, <=10)	5804	27%	
(10, <=15)	4783	22.25%	
(15, <=Max)	5077	23.63%	
Total	21493	100%	

TSP	% of Time Spent on 3G/VoLTE
BSNL 3G	99.67%
Airtel VoLTE	100%
Jio VoLTE	100%
VIL VoLTE	100%

