

For

SANGLI Feb. 2022

RO, Bengaluru

<u>Key Performance Indicators:</u> All TSPs have met the 2% QOS benchmark of Drop Call Rate except BSNL 3G. All TSPs have met the 3% QOS benchmark of Call Block Rate except BSNL 3G

The Operator Assisted Drive Test has been carried out by Regional Office, Bangalore with the help of Service Providers from 15-02-2022 to 18-02-2022 The drive test covered a drive route of 300 KMs & 6 hotspots. Approximately 500 calls were made for each of the 7 networks: three 2G networks, one 3G network and three LTE network covering four TSPs.



Regional Office, TRAI Bengaluru conducted Operator Assisted Drive Test from 15-02-2022 to 18-02-2022 ccovering various locations in Sangli City & surrounding region. The performance of Airtel, BSNL, Vodafone Idea and Jio were monitored across various technologies (2G, 3G and 4G/VoLTE). The test results obtained from these drive tests were utilized to assess the network quality for Voice and Data services in terms of

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

Data: Download and Upload Throughputs, Web Browsing Delay and Latency

Drive Test Details:

Voice Tests: Calls were made for 90 sec duration with wait time of 10 sec between calls in all technologies. The drive test covered a drive route of approximately 350 KMs over a period of 3 days from 15-02-2022 to 18-02-2022. Approximately 480+ calls were made for each of the 7 networks: three 2G (Lock Mode) networks, one 3G (Dual mode) networks and three VoLTE network covering 4 unique TSPs.

Data Tests: Dynamic data test (Data Test on Move) was conducted for 350 kms over a period of 3 days for download throughput for 3G & 4G technology. Data Tests were performed at 6 static locations; three 2G (Lock mode) networks, one 3G (Dual mode) networks and three 4G (Free mode) networks covering 4 unique TSPs were tested. **All the data through put figure mentioned in the report are based on the average value.**

* For Voice and Data KPI's, 2G measurement is done with UE locked on 2G, 3G measurement is done with UE in Dual mode (2G & 3G) and 4G measurement is done with UE in Free Mode.

* 3G KPI's which are calculated from UE in Dual Mode (2G & 3G) includes samples and events of 2G.

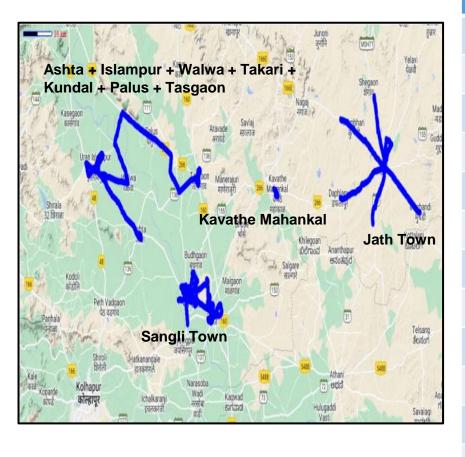
* 4G KPI's which are calculated from the UE in Free Mode included samples and events of 2G & 3G.

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					
Latency	32 Bytes on <u>www.google.com</u>					
Video Streaming	130 secs clip					

Overview

Voice & Dynamic Data Test (Data Test on Move) Drive Route

Areas Covered



Sangli city Sangli Sangli Miraj Daphlapur Jath Muchandi Mangalwedha Ashta Ashta Islampur Kundal Palus Tasgaon

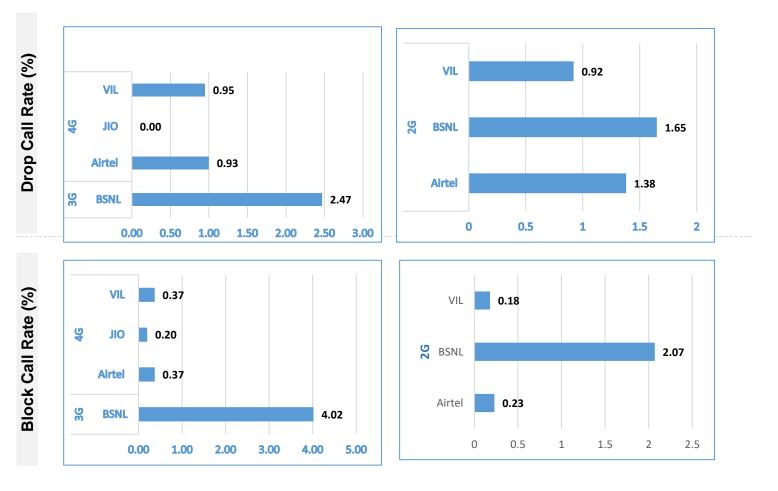
Data Service Test- Static Locations

Jath Bus Stand
Tasgaon Bus Stand
Miraj Railway Station
Govt. Medical College, Miraj
Sangli district Collector office
Sangli head post office

Voice Calls

Key Observations

QoS compliance of the TSPs in Sangli for Voice across technologies 2G/3G/4G-VoLTE:



		2G		3G VoLTE			
KPIs	Airtel	BSNL	VIL	BSNL	Airtel	RJIL	VIL
Drop Call Rate %	1.38	1.65	0.92	2.47	0.93	0.00	0.95
Block Call Rate %	0.23	2.07	0.18	4.02	0.37	0.20	0.37

a) All TSPs have met the 2% QOS benchmark of Drop Call Rate except BSNL 3G

b) All TSPs have met the 3% QOS benchmark of Call Block Rate except BSNL 3G

Voice Calls

Key Observations

Coverage

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

		2G	
TSPs	Airtel	BSNL	VIL
Coverage%	77.7%	77.62%	74.41%

b) Percentage of coverage samples for $3G \ge -90 \text{ dBm \& LTE } \ge -110 \text{ dBm}$.

	3G	VoLTE			
TSPs	BSNL	Airtel	JIO	VIL	
Coverage %	86.68%	89.04%	95.07%	93.35%	

c) Percentage of time spent on 3G/VoLTE network

	3G	VoLTE				VoLTE		
TSPs	BSNL	Airtel	VIL	JIO				
Time Spent on 3G%	51.5%	97.79%	98%	100%				

City Level Summary

Voice Call	2G				
voice Call	Airtel	BSNL	VIL		
Call Attempt	435	627	545		
Blocked Call Rate (%)	0.23	2.07	0.18		
CSSR% (Accessibility)	99.77	97.93	99.82		
Drop Call Rate (%)	1.38	1.65	0.92		
Mobility HOSR (%)	100	90.26	96.7		
Rx Quality (%)	95.12	95.16	97.43		

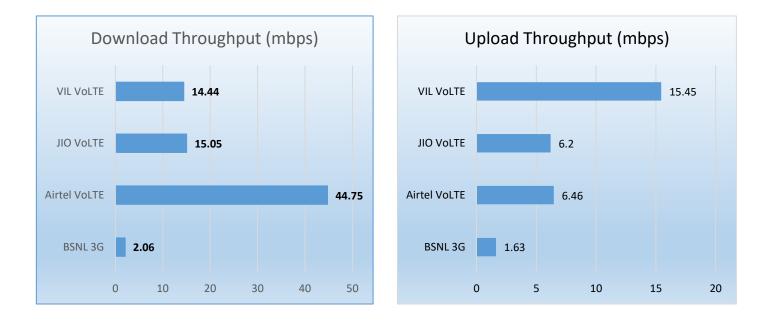
Voice Call	3G/VoLTE					
Voice Call	BSNL 3G	Airtel VoLTE	JIO VoLTE	VIL 4G		
Call Attempt	671	540	458	527		
Blocked Call Rate (%)	4.02	0.37	0.20	0.37		
CSSR% (Accessibility)	95.98	99.63	99	99.63		
Drop Call Rate (%)	2.47	0.93	0.00	0.95		
Mobility HOSR (%)	100	100	98.40	97.66		
Rx Quality (%)	94.68	87.38	85.16	75.44		

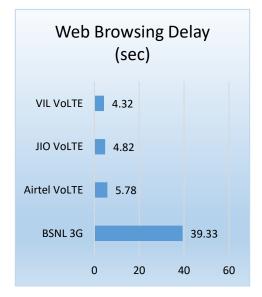
Data Services Static

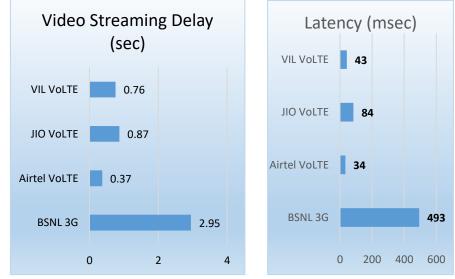
Data was tested at 6 locations .Following services were tested: Data Download/Upload, Latency (www.google.com), and Web browsing (Flipkart, Amazon, PayTm)

Data Download, Upload Performance (Mbps), Web Browsing delay, Video Streaming and Latency

3G/4G/ Network:







Data Services Static	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	37.14	0.15	152.75
Upload Throughput (kbps)	21.68	0.08	106.14
Web Browsing Delay (sec)	34.54	-	22.95
Latency (msec)	244	486	191

	3G/VoLTE					
Data Services Static	BSNL 3G	Airtel VoLTE	JIO VoLTE	VIL VoLTE		
Download Throughput (mbps)	2.06	44.75	15.05	14.44		
Upload Throughput (mbps)	1.63	6.46	6.2	15.45		
Web Browsing Delay (sec)	39.33	5.78	4.82	4.32		
Video Streaming Delay (sec)	2.95	0.37	0.87	0.76		
Latency (msec)	493	5.78	4.82	4.32		

Data Services Dynamic	3G/VoLTE					
(Data Test on Move)	BSNL 3G	Airtel VoLTE	JIO VoLTE	VIL VoLTE		
Download Throughput (mbps)	2.46	8.01	4.50	5.43		
Upload Throughput (mbps)	-	4.18	1.95	4.96		
Video Streaming Delay (sec)						
Latency (msec)						

Data Comissa Statia Jath Dua Stand	2G			
Data Services Static – Jath Bus Stand	Airtel	BSNL	VIL	
Download Throughput (kbps)	43.614	0.166	235.18	
Upload Throughput (kbps)	25.542	0.09	134.92	
Web Browsing Delay (sec)	29.26	-	19.948	
Latency (ms)	247.4	232.4	162.4	

Data Comisso Statia Jath Due Stand	3G		VoLTE	
Data Services Static – Jath Bus Stand	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	1.166	44.7314	14.882	11.836
Upload Throughput (Mbps)	1.522	6.694	3.983	15.686
Web Browsing Delay (sec)	71.704	5.64	5.34	3.592
Video Streaming Delay (sec)	5.116	0.3514	0.9026	0.797
Latency (ms)	229.8	33.8	65.8	62.8

Data Sanviago Statia, Tagagan Pus Stand	2G			
Data Services Static – Tasgoan Bus Stand	Airtel	BSNL	VIL	
Download Throughput (kbps)	33.836	0.174	201.76	
Upload Throughput (kbps)	2.526	0.066	148.08	
Web Browsing Delay (sec)	36.52	0	22.478	
Latency (msec)	245.2	785.6	180.6	

Data Carviana Statia Tanggan Dua Stand	3G		VoLTE	
Data Services Static - Tasgoan Bus Stand	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	3.704	44.046	14.9484	10.218
Upload Throughput (Mbps)	1.934	6.6	7.4162	15.724
Web Browsing Delay (sec)	27.814	6.1	4.84	4.522
Video Streaming Delay (sec)	1.47	0.4202	0.7298	1.14
Latency (ms)	1237.6	36	70.8	53.2

Deta Carviana Statia Mirai Dailway Statian	2G			
Data Services Static – Miraj Railway Station	Airtel	BSNL	VIL	
Download Throughput (kbps)	37.586	0.114	107.56	
Upload Throughput (kbps)	24.312	0.0698	65.94	
Web Browsing Delay (sec)	34.66	0	27.448	
Latency (ms)	245.8	494	242.8	

Data Services Static – Miraj Railway	3G		VoLTE	
Station	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	1.498	47.5424	14.8846	20.634
Upload Throughput (Mbps)	1.78	6.46	7.8484	15.24
Web Browsing Delay (sec)	41.866	5.68	5.22	3.95
Video Streaming Delay (sec)	6.558	0.3332	0.9176	0.3898
Latency (ms)	471.8	33	70	47.2

Data Services Static – Govt Medical College	2G			
Miraj	Airtel	BSNL	VIL	
Download Throughput (kbps)	36.576	0.09	158.68	
Upload Throughput (kbps)	26.456	0.084	141.08	
Web Browsing Delay (sec)	34.84	0	20.49	
Latency (msec)	243.4	867.2	164.6	

Data Services Static - Govt Medical	3G		VoLTE	
College Miraj	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	2.324	46.732	16.0584	12.548
Upload Throughput (Mbps)	1.832	6.562	7.0744	14.446
Web Browsing Delay (sec)	31.908	5.6	3.96	5.262
Video Streaming Delay (sec)	1.972	0.3514	0.8814	0.7178
Latency (ms)	219.6	32.8	67.2	35.4

Data Services Static – Collector Office	2G			
Sangli	Airtel	BSNL	VIL	
Download Throughput (kbps)	35.832	0.188	93.18	
Upload Throughput (kbps)	24.894	0.094	38.54	
Web Browsing Delay (sec)	36.16	0	20.978	
Latency (ms)	238.4	238.6	236.2	

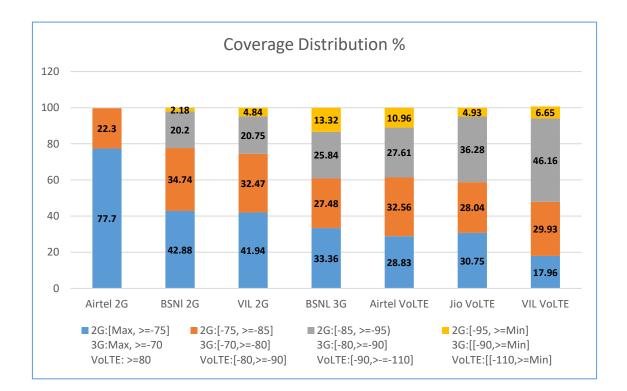
Data Services Static – Collector Office	3G		VoLTE	
Sangli	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	1.32	40.146	15.2798	12.068
Upload Throughput (Mbps)	1.176	6.08	5.6798	14.766
Web Browsing Delay (sec)	31.306	6.04	5.02	4.298
Video Streaming Delay (sec)	1.768	0.3674	0.8356	0.9626
Latency (ms)	491	35.6	70.8	34.2

Data Services Static – Head Post office	2G			
Data Services Static – Head Post office	Airtel	BSNL	VIL	
Download Throughput (kbps)	35.384	0.152	120.16	
Upload Throughput (kbps)	26.324	0.086	108.26	
Web Browsing Delay (sec)	35.782	0	26.362	
Latency (msec)	242.4	295	158.8	

Data Services Static – Head Post	3G		VoLTE	
office	BSNL 3G	Airtel	JIO	VIL
Download Throughput (Mbps)	2.376	45.314	14.2464	19.316
Upload Throughput (Mbps)	1.546	6.334	5.2158	16.852
Web Browsing Delay (sec)	31.37	5.64	4.54	4.282
Video Streaming Delay (sec)	2.284	0.3712	0.9452	0.5766
Latency (ms)	306.2	32.4	70.6	28.6

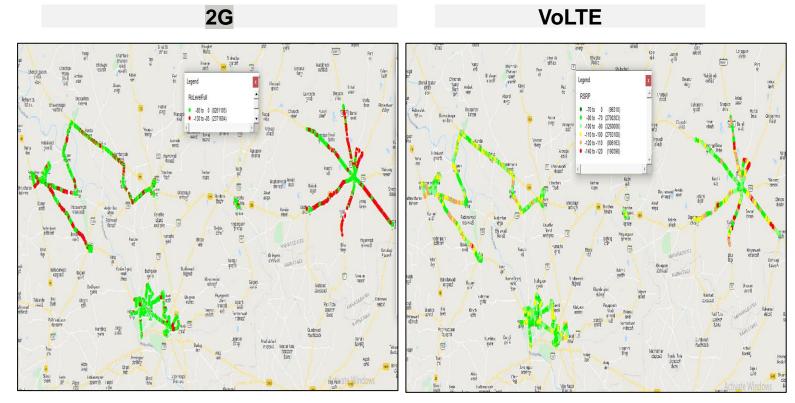
RF Coverage relates to the geographical footprint within the system that has sufficient RF signal strength to provide for a call session. The Coverage rate is calculated on the basis of % of samples in which the Rx level \geq -85 dBm, RSCP is \geq -90 dBm & RSRP \geq -110dBm. The details are as follows.

TSP	Coverage Rate %
Airtel 2G	77.7
BSNI 2G	77.62
VIL 2G	74.41
BSNL 3 G	86.68
Airtel VoLTE	89.04
Jio VoLTE	95.07
VIL VoLTE	93.35



AIRTEL

Technology	Coverage Rate %
2G	77.7
VoLTE	89.04



	2G		ν	oLTE	
Overall RxLevel	# Samples	% PDF	Overall RSRP	# Samples	% PDF
[Max, >=-75]	8261105	77.7%	[Max, >=-70]	96310	0.96%
[-85, >=-130)	2371604	22.3%	[-70, >=-90)	2790303	27.87%
			[-90, >=-100)	3260006	32.58%
			[-100, >=110)	2763108	27.61%
			[-110, >=Min)	1096561	10.96%
Total	10632709		Total	10006288	

I. Coverage Details

BSNL

Technology	Coverage Rate %
2G	77.62
3G	86.68

2G

Mangrul माणगृळ

10

75

Kav Eka

75

Rajapur राजापूर

sbe Di कसबे दिगाल

Samdol

Khurd हिंगणगाव खुर्द

Deorashtn देओराइन्ने

Bagan बागणी

Kunda कुंडाळ

Kirlosk किलोस्व

(136)

dhga दूधगांव

umbho बाहुबली कुंभोज

Bh

75

Kotawade कोटवडे

Shirate ज़िराटे

lubalwad

Kameri कामेरी

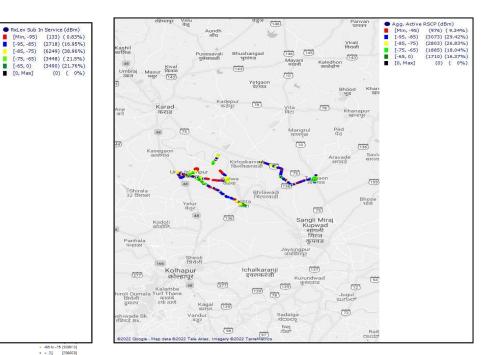
Yelur येलुर

Talsande तळसांडे

Padali पाडळी

Gotkhind गोठखिंडी

noli Sta होणोलि स्टेशन



3G

-65 to -75 [300310]

 • < -76</td>
 [290599]

2G			
Overall RxLevel	# Samples	% PDF	
[Max, >=-75]	10649	42.88	
[-75, >=-85)	8627	34.74	
[-85, >=-95)	5015	20.20	
[-95, >=Min)	541	2.18	
Total	24832	100	

3G			
Overall RSCP	# Samples	% PDF	
[Max, >=-70]	5814	33.36	
[-70, >=-80)	4789	27.48	
[-80, >=-90)	4504	25.84	
[-90, >=Min)	2323	13.32	
Total	17430	100	

I. Coverage Details

Technology	Coverage Rate %
VoLTE	95.07
	LTE KPI PCell Serving RSRP[dBm] • -80 <= x < 0 (30.75%, 1579) • -90 <= x < -80 (28.04%, 1440) • -110 <= x < -90 (36.28%, 1863) • -180 <= x < -110 (4.93%, 253)

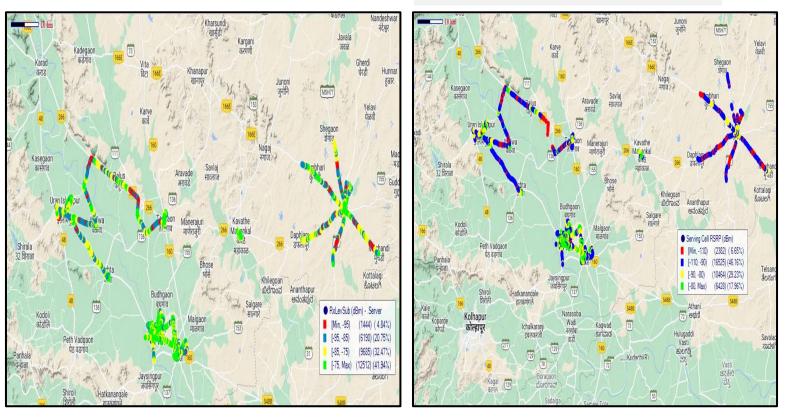
VoLTE		
Overall RSRP	# Samples	% PDF
[Max, >=-80]	1579	30.75%
[-80, >=-90)	1440	28.04%
[-90, >=-110)	1863	36.28%
[-110, >=Min)	253	4.93
Total	5135	100%

I. Coverage Details

VIL		
Technology	Coverage Rate %	
2G	74.41	
VoLTE	93.35	

2G





	2G			VoLTE	
Overall RxLevel	# Samples	% PDF	Overall RSRP	# Samples	% PDF
[Max, >=-75]	12512	41.94	[Max, >=-80]	6428	17.96
[-75, >=-85)	9685	32.47	[-80, >=-90)	10464	29.23
[-85, >=-95)	6190	20.75	[-90, >=-110)	16525	46.16
[-95 <i>,</i> >=Min)	1444	4.84	[-110, >=Min)	2382	6.65
Total	29831	100	Total	35799	100

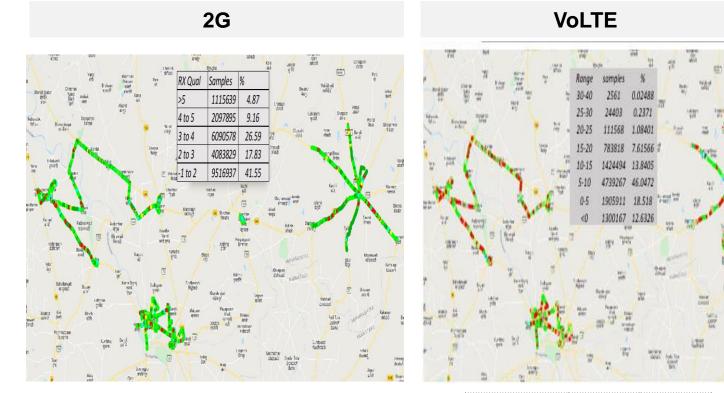
For measuring voice quality, as per the QoS norms, RxQual <=5 for GSM TSPs, EcNo >= -14 dBm for 3G TSP sand SINR >0 in case of VoLTE is considered to be good, where as quality beyond this benchmark is considered to be bad. The benchmark should usually be \geq 95%.

TSP	Rx Quality %
Airtel 2G	95.12
BSNI 2G	95.16
VIL 2G	97.43
BSNL 3G	94.68
Airtel VoLTE	87.38
Jio VoLTE	85.16
VIL VoLTE	75.44



Airtel

Technology	Rx Quality %
2G	95.12
VoLTE	87.38



Overall Rx Quality	# Samples	% PDF
(Min, <=2)	9516937	41.55
(2, <=3)	4083829	17.83
(3 , <=4)	6090578	26.59
(4 , <=5)	2097895	9.16
(5 , <=Max)	11156639	4.87
Total	22904878	100

Range # Samples % PDF (30-40) 2561 0.024 (25-30) 24403 0.23 (20-25) 111568 1.08 (15-20) 783818 7.61 (10-15) 1424494 13.84 (5-10) 46.04 4739267 (0-5) 1905911 18.51 (<0) 1300167 12.63 15031456 100 Total

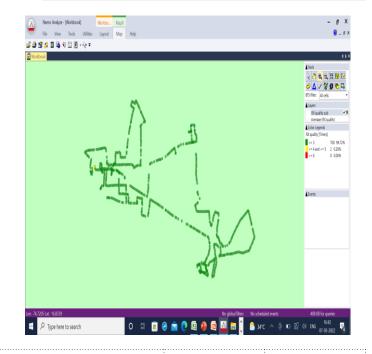
Quality Details

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BSNL

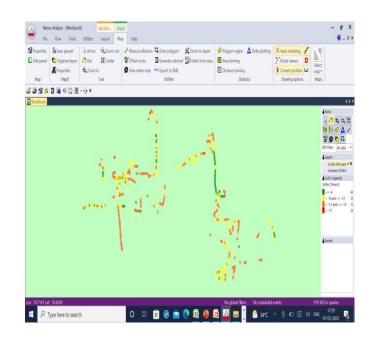
Technology	Rx Quality %
2G	95.12
3G	94.68

2G



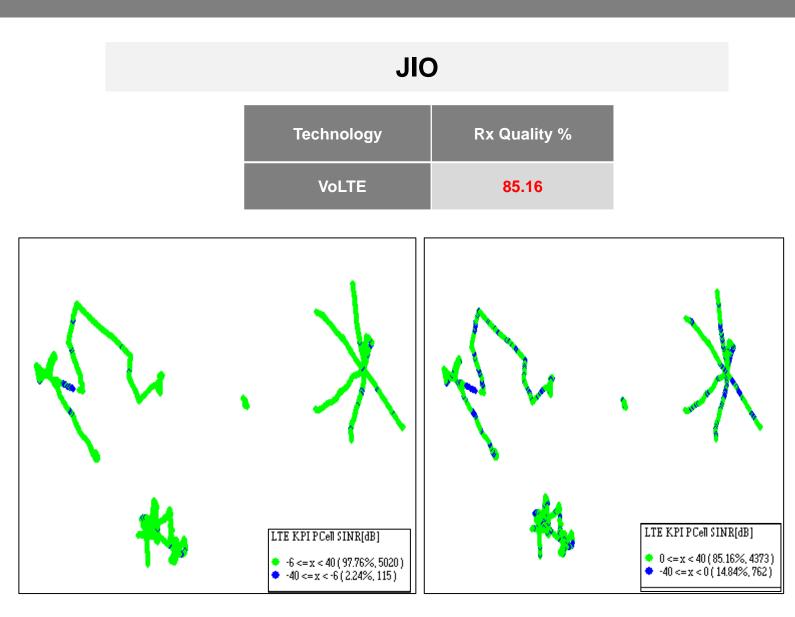
Overall Rx Quality	# Samples	% PDF
(Min, <=2)	18272	77.97
(2, <=3)	2445	10.43
(3 , <=4)	917	3.91
(4 , <=5)	1791	7.64
(5 , <=Max)	11	0.05
Total	23436	100

3G



Overall EcNo	# Samples	% PDF
(Max, <=-6)	3898	22.37
(-6, <=-9)	5857	33.6
(-9, <=-11)	4639	26.62
(-11, <=-14)	2488	14.27
(-14, <= Min)	548	3.14
Total	28836	100

Quality Details

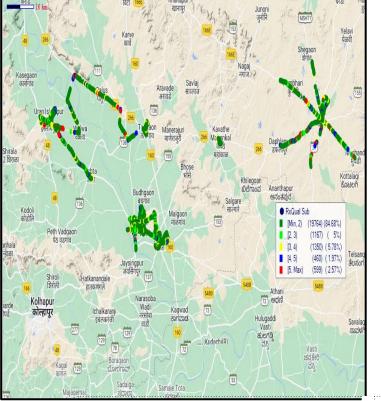


SINR	# Samples	% PDF
(Max, >0)	4373	85.16%
(<= 0)	762	14.84%
Total	5135	100%

VIL

Technology	Rx Quality %
2G	97.43
VoLTE	75.44

2G



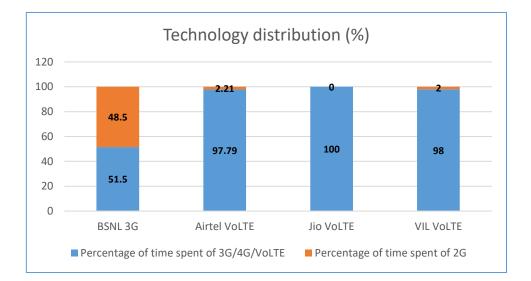
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(44) Kasegaon astima Uran isy pur		Aravade Savlaj अरावडे 1	Nagaj Print / Print /	
Shrala 32 Broan	Verwa Tabati Ibla	Manerajuri nitringiti 74 Malankal 55 Rose site	Daphing sec.	Richard Had
Kodoli Hei ya katelia	(38) Buthgaon attria	Malgaon Historia	Khilegoan Ødrood Ananthapur excostajd Serving Cell RS SINR (dB)	Kottalagi Bolsen
Panhala Panhala mingatan Shirol Britit	a Jaysingpu autemut		[Min, -6] (1598) (5.62%) [6, 0] (5392) (18.95%) [0, Max) (21464) (75.43%)	Telsang Bexdori
Kale and Koparde atus Kolhapur atus atrestyr	ichakaranji Ichakaranji stenareli (20)	Kagwad Barlaad	Athani Ti edid Hulugaddi Vasti	Savalagi ಸುವಳಗಿ
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in the second se	aoema shchort Tel Tel Tel Tel Tel Tel Tel Tel Tel Tel	Samale Tota dicted disres Rabog modificant		Jamkhandi A.M. සක්ෂාංශි

VoLTE

	2G			VoLTE	
Overall RxQuality	# Samples	% PDF	Overall SINR	# Samples	% PDF
[Min, <=2]	19764	84.68	[Min, <=0]	6990	24.57
[2, <=3)	1167	5.0	[0, <=5)	7696	27.05
[3, <=4)	1350	5.78	[5, <=10)	6017	21.15
[4, <=5)	460	1.97	[10, <=15)	3958	13.91
[5, <=Max)	599	2.57	[15, <=Max)	3793	13.33
Total	23340	100	Total	28454	100

Quality Details

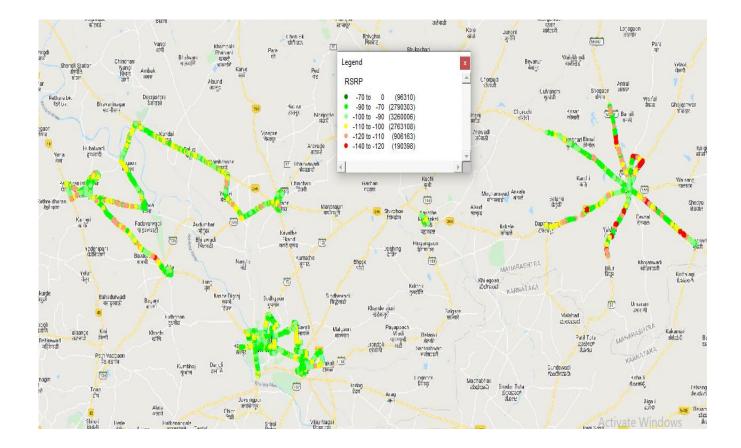
TSP	Percentage of time spent on 3G/4G/VoLTE
BSNL 3G	51.5
Airtel VoLTE	97.79
Jio VoLTE	100
VIL VoLTE	98



III. Technology Details

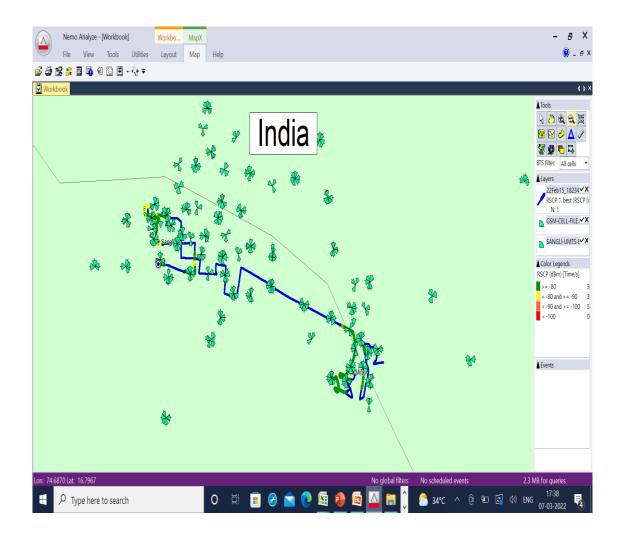
Airtel

Technology	Time Spent
VoLTE	97.79%



BSNL

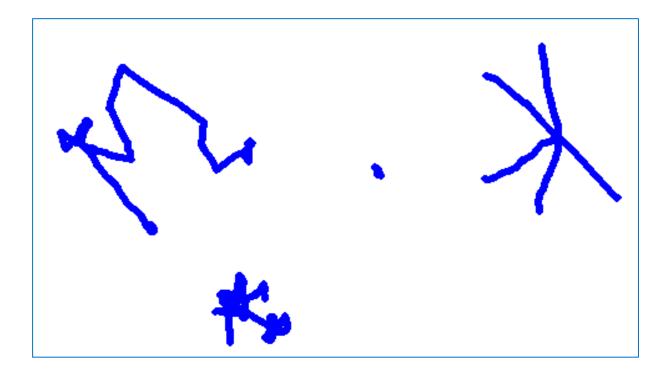
Technology	Time Spent
3G	51.5 %



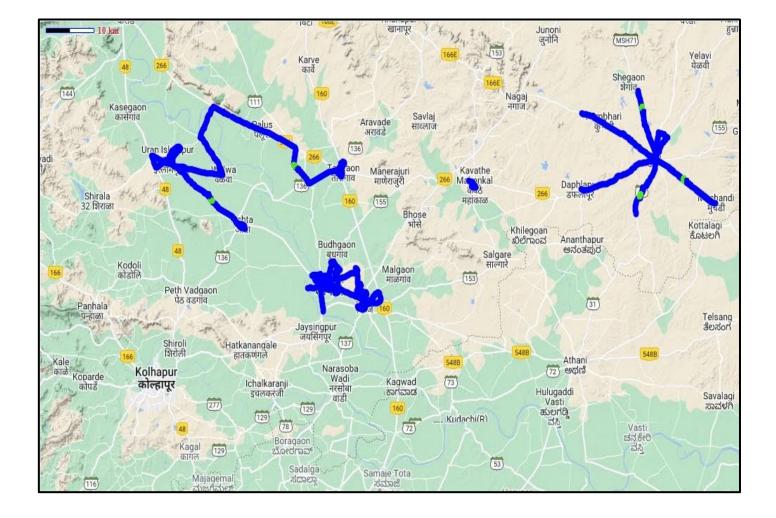
III. Technology Details

JIO

Technology	Time Spent
VoLTE	100 %

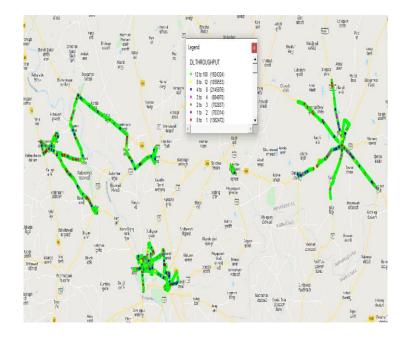


VILTechnologyTime SpentVoLTE98 %



IV. Dynamic Data Test (Data Test on Move) -4G DL/UL Details

Airtel



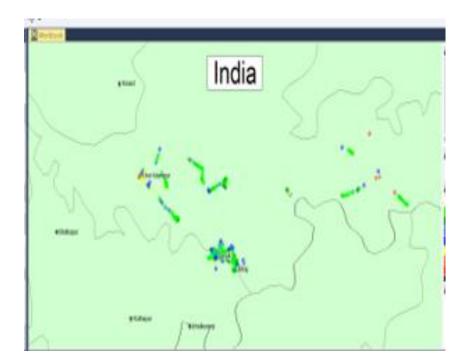
DL throughput	No of Sample	%
0 to 1 Mbps	1362472	15.87%
1 to 2 Mbps	703314	8.19%
2 to 3 Mbps	702837	8.19%
3 to 4 Mbps	684970	7.98%
4 to 8 Mbps	2145876	25%
8 to 12 Mbps	1059553	12.34%
>12 Mbps	1924324	22.42%
Total	8583346	



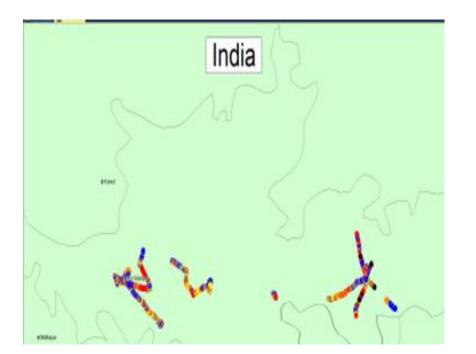
UL Throughput	Samples	%
>12	509293	14.6
8 to 12	356952	10.2
4 to 8	805785	23.0
3 to 4	296382	8.5
2 to 3	308317	8.8
1 to 2	328243	9.4
0 to 1	892907	25.5

IV. Dynamic Data Test (Data Test on Move) - 3G DL/UL Details

BSNL



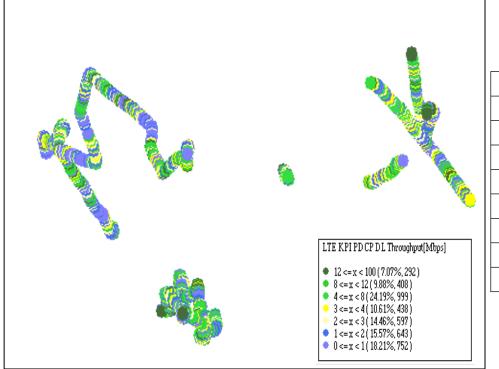
Download Throughput	No. of samples	%
0 to 1 Mbps	17953	52.39
1 to 2 Mbps	5868	17.12
2 to 3 Mbps	3089	9.01
3 to 4 Mbps	2070	6.04
4 to 8 Mbps	4193	12.24
8 to 12 Mbps	1041	3.04
>12 Mbps	55	0.16



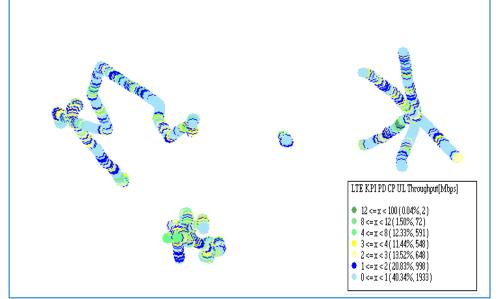
Upload	No.of	
Throughput	samples	%
0 to 256 kbps		
Mbps	1701	11.20
250 to 512 kbps	1664	10.95
512 Kbpsto 1		
Mbps	3831	25.22
1 to 2 Mbps	7275	47.89
2 to 3 Mbps	719	4.73
3 to 4 Mbps	0	0.00
>4Mbps	0	0.00

IV. Dynamic Data Test (Data Test on Move) - 4G DL/UL Details

JIO



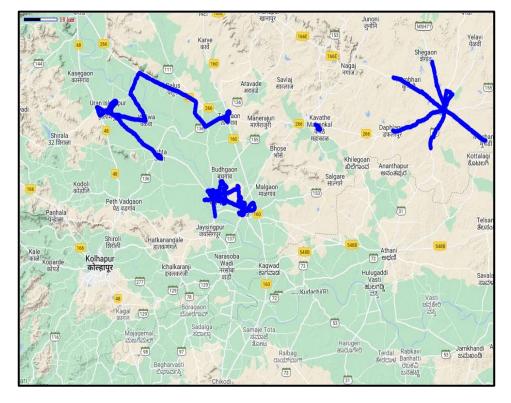
DL throughput	No of Sample	%
0 to 1 Mbps	292	7.07
1 to 2 Mbps	408	9.88
2 to 3 Mbps	999	24.19
3 to 4 Mbps	438	10.61
4 to 8 Mbps	597	14.46
8 to 12 Mbps	643	15.57
>12 Mbps	752	18.21
Total	4129	100



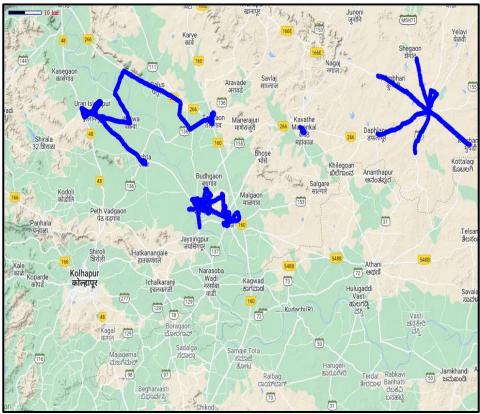
UL throughput	No of Sample	%
0 to 1 Mbps	1933	40.34
1 to 2 Mbps	998	20.83
2 to 3 Mbps	648	13.52
3 to 4 Mbps	548	11.44
4 to 8 Mbps	591	12.33
8 to 12 Mbps	72	1.5
>12 Mbps	2	0.04
Total	4792	100

IV. Dynamic Data Test (Data Test on Move) - 4G DL/UL Details

VIL



Download Throughput	No. of samples	%
0 to 1 Mbps	13981	49.25
1 to 2 Mbps	2007	7.07
2 to 3 Mbps	1661	5.85
3 to 4 Mbps	1438	5.07
4 to 8 Mbps	4063	14.31
8 to 12 Mbps	2147	7.56
>12 Mbps	3092	10.89



Upload Throughput	No. of samples	%
0 to 256 kbps	10110	37.94
250 to 512 kbps	731	2.74
512 Kbps to 1 Mbps	1677	6.29
1 to 2 Mbps	4699	17.63
2 to 3 Mbps	1831	6.87
3 to 4 Mbps	1187	4.45
>4Mbps	6414	24.07

Airtel

V. TRAI MySpeed App Test Details-4G

Techology-4G	Location 1	Location 2	Location 3	Location 4	Location 5	Location 6
Download Speed	21.23	44.75	40.95	50.05	61.94	66.66
Upload Speed	3.17	8.2	9.59	7.11	10.30	2.95
Latency	33.8	33.9	33	51.5	35.6	53.2



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Your Result		
AIRTEL	Date 18/02/22	
	Time 12:42 PM	
LTE	Lat. 16.83585	
-74 dBm	Long. 74.64772	
Download	Upload	
Speed	Speed	
50.05	7.11	
Mbps	Mbps	
Network	Packet	
Delay	LOSS	
51.7	0	
Ms		
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Date 18/02/22	
Time 06:09 PM	
Lat. 16.86004	
Long. 74.56842	
Upload Speed	
10.30	
Mbps	
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Loss	
N.A.	
SEND TO TRAI	
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Your Result		
AIRTEL	Date 18/02/22	
	Time 03:57 PM	
LTE	Lat. 16.83824	
-65 dBm	Long. 74.60792	
Download	Upload	
Speed	Speed	
66.66	2.95	
Mbps	Mbps	
Network	Packet	
Delay	Loss	
53.2	0	
Ms		
TEST AGAIN	SEND TO TRAI	
@2 :≡	• 🚽 🛈	

BSNL

V. TRAI MySpeed App Test Details-3G

Techology-3G	Location 1	Location 2	Location 3	Location 4	Location 5	Location 6
Download Speed		3.20	4.99		1.86	1.78
Upload Speed		3.12	0.29		2.89	1.30
Latency		26.1				50.3





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Your Result					
N.A.	Date 18/02/22				
	Time 10:30 AM				
HSPAP	Lat. 16.81904				
-65 dBm	Long. 74.63951				
Download	Upload				
Speed	Speed				
4.99	0.29				
Mbps	Mbps				
Network	Packet				
Delay	Loss				
N.A.	N.A.				
TEST AGAIN	SEND TO TRAI				
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Your Result					
N.A.	Date 18/02/22				
	Time 04:49 PM				
HSPAP	Lat. 16.84362				
-55 dBm	Long. 74.60995				
Download	Upload				
Speed	Speed				
1.86	2.89				
Mbps	Mbps				
Network	Packet				
Delay	Loss				
N.A.	N.A.				
TEST AGAIN	SEND TO TRAI				
&a :=	💿 🤜 🛈				
20-00					



V. TRAI My Speed App Test Details-4G

Techology-4G	Location 1 (collector office)	Location 2 Headpost Office)	Location 3 (Miraj Govt Hosp)		Location 5 (Jath Bus stand)	Location 6 (Tasgaon Bus Stand)
Download Speed	19.37	10.79	21.88	43.56	62.43	23.39
Upload Speed	29.13	8.93	16.53	8.66	9.95	17.14
Latency	49.3	50.3	45.8	42.0	52	48.4



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V. TRAI My Speed App Test Details-4G

Techology-4G	Location 1- Jath ST Stand	Location 2- Tasgaon ST Stand	Location 3- Miraj Railway Station	Location 4- Medical College Miraj	Location 5- Sangli DC Office	Location 6- Sangli Head post Office
Download Speed	10.70	31.30	45.18	22.53	29.47	3.19
Upload Speed	11.80	18.35	27.42	22.59	3.62	1.52
Latency	75	34	32	57	29	33

