

Operator Assisted Drive Test Report

DHENKANAL SSA

MARCH 2024

(RO HYDERABAD)

Key Performance Indicators: All TSPs have met the Drop Call Rate (DCR) benchmark of 2%. All TSPs have met the Call Setup Success Rate (CSSR) of 95%. Rx quality not achieved by BSNL 3G, Airtel VoLTE, Jio VoLTE

The Operator Assisted Drive Test has been carried out by Regional Office, Hyderabad with the help of Service Providers in Dhenkanal City and surrounding areas Angul Town, Talcher Town, Kamakhyanagar, Chaudwar and Chandikhol including important National Highway and State Highways from 9:00 AM to 7:00 PM during 18th March to 21st March 2024. The drive test covered drive route of 441 KMs & 6 hotspots over a period of 4 days. Approximately 400 calls were made for each of the 8 networks: three 2G networks, two 3G networks and Three LTE network covering four TSPs.

Overview

Voice
Summary

Data
Summary

Overview

Regional Office, TRAI conducted Operator Assisted Drive Test from 18th Mar to 21st Mar. 2024 covering various locations in Dhenkanal City & surrounding regions areas Angul Town, Talcher Town, Kamakhyanagar, Chaudwar and Chandikhol. The performance of Airtel, BSNL, Vodafone Idea and Jio were 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 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 441 KMs over a period of 4 days from 18th Mar to 21st Mar. 2024. Approximately calls 400 were made for 2G (Lock Mode) 3G (Free Mode) and Volte (Free Mode) network.

Data Tests:

1. Dynamic data test was conducted for 441 kms over a period of 3 days for download throughput for 4G technologies.

2. Data Tests were performed at 6 static locations for 2G ,3G & 4G technologies.

* For Voice and Data KPI's, 2G measurement is done with UE locked mode ,3G Done With 3G preferred Mode and 4G measurement is done with UE in Free Mode.

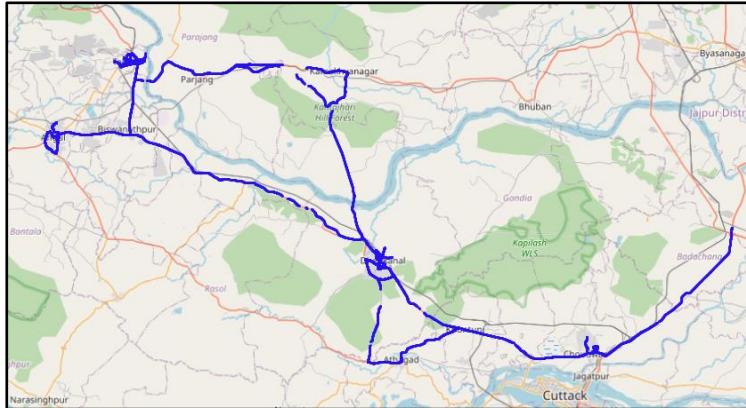
* 4G KPI's which are calculated from the UE in Free Mode included samples and events of 2G & 3G.

events of 2G & 3G.

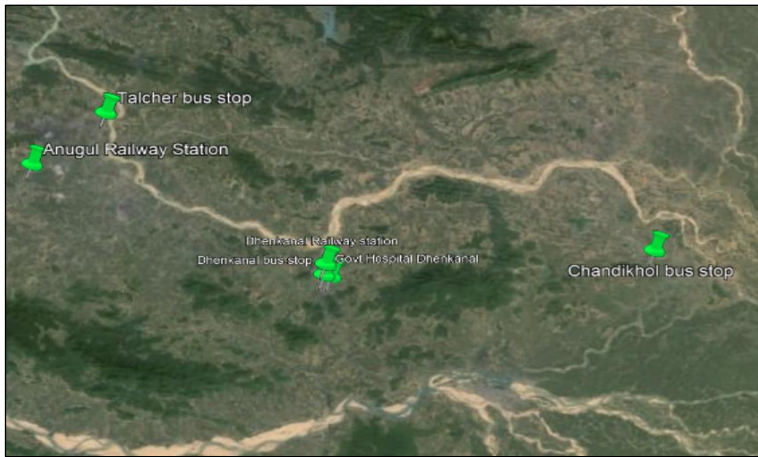
Service	Specifications
Download	2G (Locked) - 500KB, 3G(Locked) 20MB ,4G (Free) - 40 MB
Upload	2G (Locked) - 100KB, 3G(Locked) 5Mb ,4G (Free) - 10 MB
Web Browsing	3 links of e/m commerce website www.amazon.in, www.flipkart.com and PayTm
Latency	32 Bytes on www.google.com

Overview

Voice & Dynamic Data Test Drive Route



SL.NO	Hot Spot Location name
1	Anugul Railway Station
2	Chandikhola bus stop
3	Talcher bus stop
4	Dhenkanal Railway station
5	Govt Hospital Dhenkanal
6	Dhenkanal bus stop



NH/SH Routes covered in OADT by RJIL				
SL.NO	No of NH/SH routes	NH routes	SH routes	Distance(Km)
1	Dhenkanal- Anugul	NH55		30
		NH53		40
2	Anugul- Talcher	NH53		30
		NH149		25
3	Dhenkanal- Choudwar	NH55		50
4	Choudwar— Chandikhola	NH55		20
		NH16		50

Area Covered –Dhenkanal	
District Hospital Dhenkanal	Synergy Institute of Engineering
Dhenkanal Railway station	Rathagada Daily Market
Dhenkanal Stadium	Khemka Mall
Dhenkanal Bus stop	Dakhinakali Road
Autonomous College Dhenkanal	Ganesh Bazar

Area Covered- Anugul	
Anugul Railway Station	DIC Chowk
Anugul Bus stand	Gandhi Marg Chowk
Railway colony Anugul	Autonomous College Anugul
Anugul Police Station	Anugul Daily Market

Area covered –Talcher	
Talcher Bus Stand	Hata tota chanka
Greenfield Stadium	ITI Chowk
Rajbati Talcher	Autonomous College Talcher

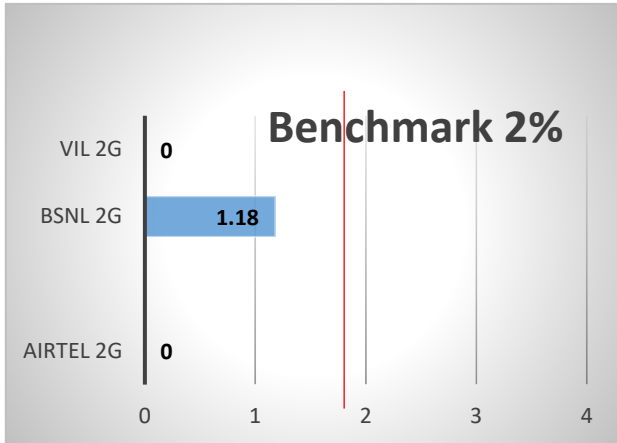
Area covered -Choudwar	
Institute Of Textile	Mundamal
IMFA Thermal Power Plant	OTM Colony

Voice Calls

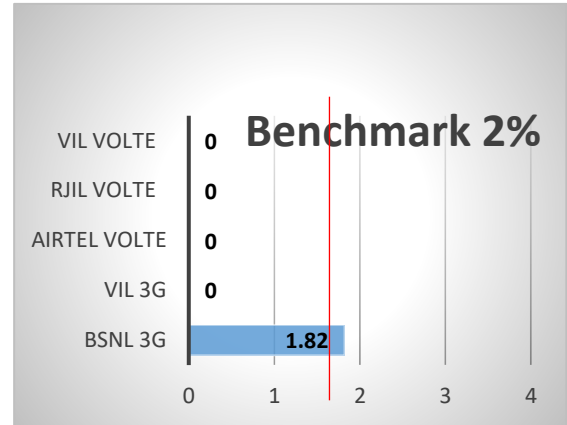
Key Observations

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

Drop Call Rate (%)

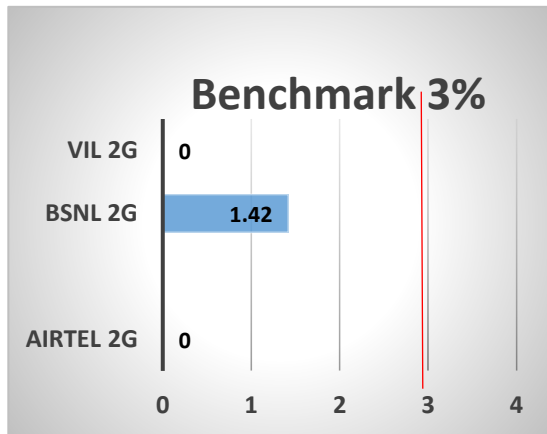


3G/VoLTE Network

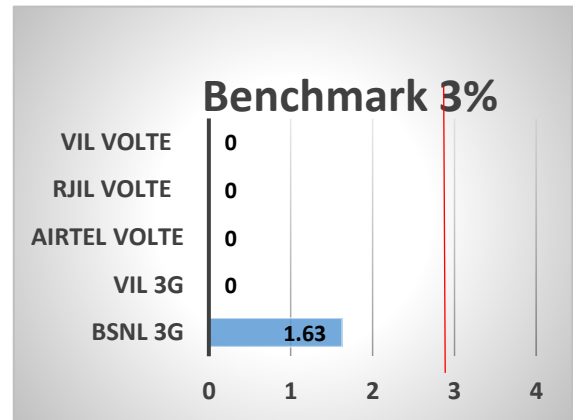


2G Network

Block Call Rate (%)



3G / VoLTE Network



2G Network

KPIs	2G			3G		VoLTE		
	Airtel	BSNL	VIL	BSNL	VIL	Airtel	RJIL	VIL
Drop Call Rate %	0	1.18	0	1.82	0	0	0	0
Block Call Rate %	0	1.42	0	1.63	0	0	0	0

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 \geq -85 dBm.

TSPs	2G		
	Airtel	BSNL	VIL
Coverage %	98.27	96.50	93.62

b) Percentage of coverage samples for 3G \geq -90 dBm & LTE \geq -110 dBm

TSPs	3G		VoLTE (\geq -110 dBm)		
	BSNL	VIL	Airtel	JIO	VIL
Coverage %	75.98	94.19	99.25	99.74	95.71

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

TSPs	3G		VoLTE		
	BSNL	VIL	Airtel	JIO	VIL
Time spent %	96	67.35	100	100	39.87

Data Services Static

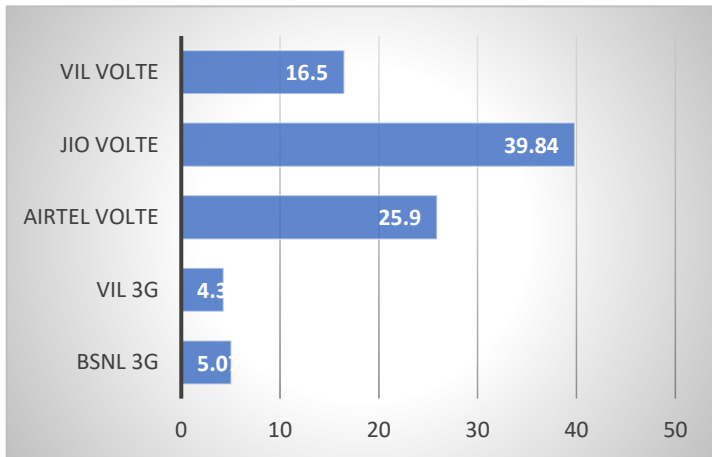
Key Observations (Average of 6 Hotspots)

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

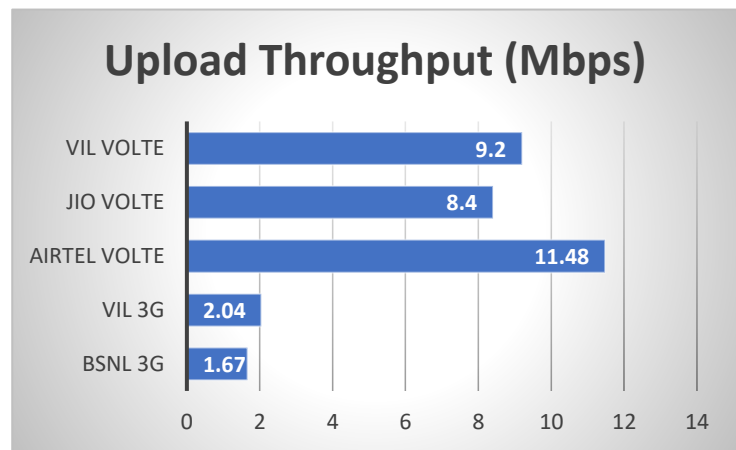
Data Download and Upload Performance (Mbps)

3G/4G Network:

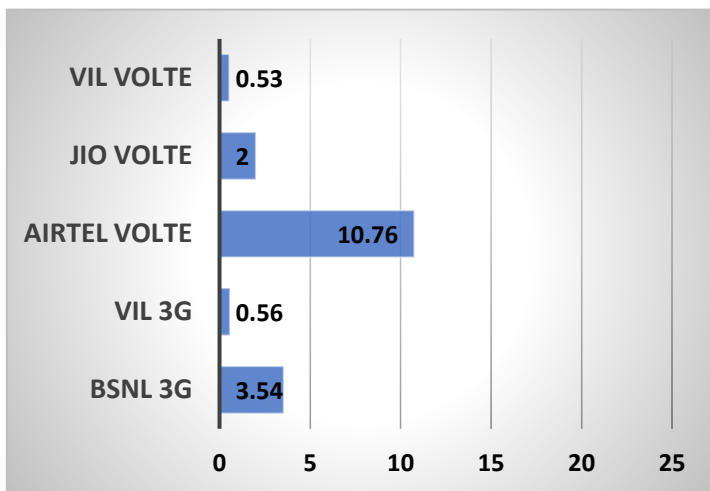
Download Throughput (Mbps)



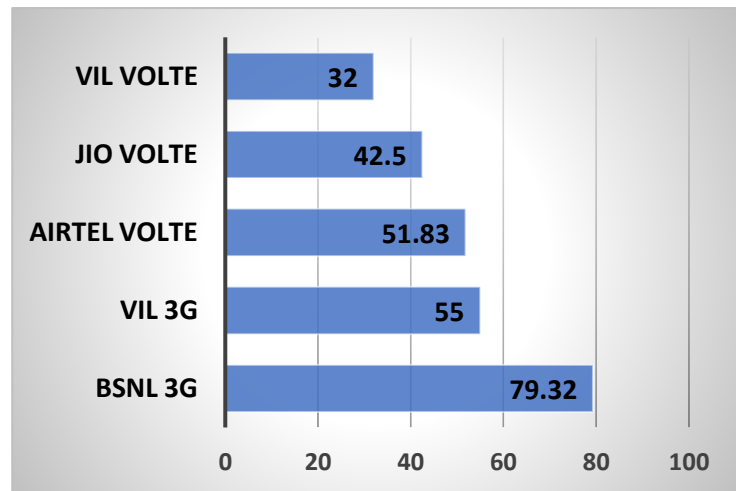
Upload Throughput (Mbps)



Web Browsing delay (Sec)



Latency (ms)



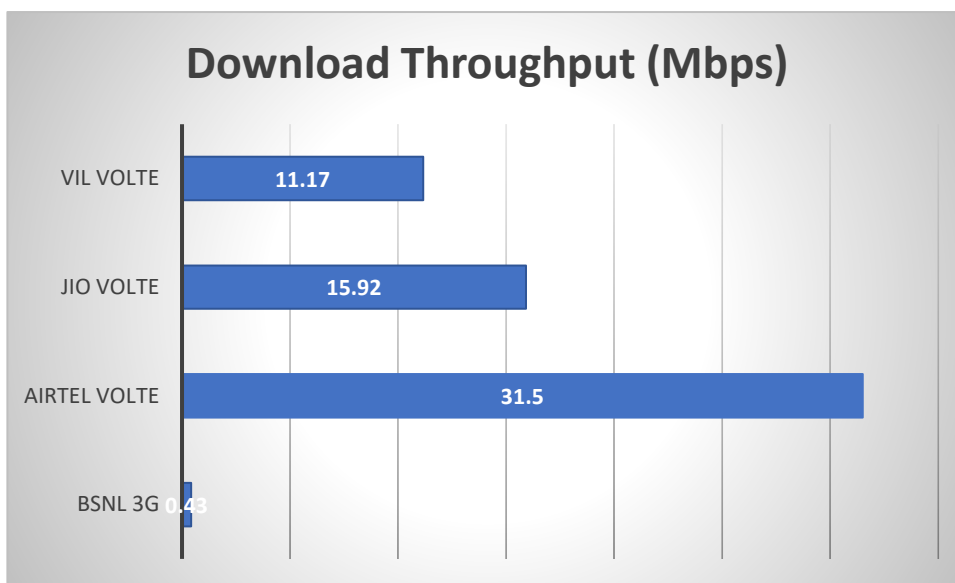
Data Services Dynamic

Key Observations

Dynamic Data was tested for 441 Kms. Download Throughput was tested.

Data Download Performance (Mbps) - Dynamic

3G/4G Network:



Data Services Static Dynamic	VoLTE			
	BSNL 3G	Airtel 4G	JIO 4G	VIL 4G
Download Throughput (Mbps)	0.43	31.5	15.92	11.17

Summary

SSA Level Summary-Voice

Voice Call	2G		
	Airtel	BSNL	VIL
Call Attempt	361	438	496
Blocked Call Rate (%)	0.00	1.42	0
CSSR% (Accessibility)	100	98.58	100
Drop Call Rate (%)	0.00	1.18	0
Mobility HOSR (%)	100	96.6	98.90
Rx Quality (%)	96.33	98.06	96.81

Voice Call	3G		VoLTE		
	BSNL	VIL	Airtel VoLTE	JIO VoLTE	VIL VoLTE
Call Attempt	447	283	378	433	239
Blocked Call Rate (%)	1.63	0	0.00	0	0
CSSR% (Accessibility)	98.37	100	100	100	100
Drop Call Rate (%)	1.82	0	0.00	0	0
Mobility HOSR (%)	100	100	100	99.78	100
Rx Quality (%)	87.13	96.96	89.23	91	98.59

Summary

SSA Level Summary- (Average of 6 hotspots)- Data Services

Data Services Static	2G		
	Airtel	BSNL	VIL
Download Throughput (Kbps)	170.5	166.67	183.22
Upload Throughput (Kbps)	73.63	106.67	90.17
Web Browsing Delay (sec)	20.01	45.82	0.69
Latency (msec)	252.33	327.67	131

Data Services Static	3G		VoLTE		
	BSNL	VIL	Airtel VoLTE	JIO VoLTE	VIL VoLTE
Download Throughput (Mbps)	5.07	4.31	25.9	39.84	16.5
Upload Throughput (Mbps)	1.67	2.04	11.48	8.4	9.2
Web Browsing Delay (sec)	3.54	0.56	10.76	2	0.53
Latency (msec)	79.32	55	51.83	42.5	32

Anugul Railway Station	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	173.6	200	201.19
Upload Throughput (kbps)	52.7	40	80.2
Web Browsing Delay (sec)	22.63	35.07	0.75
Latency (msec)	230	482	135

Talcher Bus Stand	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	145.8	180	181.34
Upload Throughput (kbps)	56.7	110	92.2
Web Browsing Delay (sec)	19.37	45.74	0.61
Latency (msec)	314	193	139

Chandikhol Bus Stand	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	97.6	150	184.7
Upload Throughput (kbps)	35.6	150	88.7
Web Browsing Delay (sec)	20.46	34..92	0.50
Latency (msec)	312	175	132

Dhenkanal Railway Station	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	226.5	160	178.21
Upload Throughput (kbps)	116.5	120	85.10
Web Browsing Delay (sec)	19.32	59.63	0.65
Latency (msec)	188	145	130

Dhenkanal Bus stand	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	132.9	160	187.11
Upload Throughput (kbps)	73.2	110	85.2
Web Browsing Delay (sec)	21.0	57.95	0.66
Latency (msec)	170	832	128

Dhenkanal Govt Hospital	2G		
	Airtel	BSNL	VIL
Download Throughput (kbps)	246.6	150	191.4
Upload Throughput (kbps)	101.1	110	97.3
Web Browsing Delay (sec)	17.29	41.72	0.59
Latency (msec)	300	139	131

Anugul Railway Station	3G		4G		
	BSNL	VIL	Airtel	JIO	VIL
Download throughput in Mbps	8.66	4.12	24.78	48.5	15.22
Upload Throughput in Mbps	2.14	2.1	8.39	6.7	7.4
Web browsing delay in second	3.92	0.67	13.53	2	0.59
Latency in (msec)	71	54	47	42	36

Talcher Bus Stand	3G		4G		
	BSNL	VIL	Airtel	JIO	VIL
Download throughput in Mbps	4.39	3.88	14.73	45.6	20.3
Upload Throughput in Mbps	1.90	1.9	9.10	6.9	11.1
Web browsing delay in second	3.14	0.90	14.28	2	0.70
Latency in (msec)	73.7	58	52	44	30

Chandikhol Bus Stand	3G		4G		
	BSNL	VIL	Airtel	JIO	VIL
Download throughput in Mbps	3.81	4.2	34.38	47.8	18.5
Upload Throughput in Mbps	1.27	2.3	18.47	10.4	10.7
Web browsing delay in second	3.19	0.45	10.31	1.8	0.57
Latency in (msec)	76.8	45	54	36	33

Dhenkanal Railway Station	3G		4G		
	BSNL	VIL	Airtel	JIO	VIL
Download throughput in Mbps	4.89	3.9	29.32	27.8	12.35
Upload Throughput in Mbps	1.71	2.04	11.32	7.9	7.6
Web browsing delay in second	4.71	0.47	6.27	2.1	0.51
Latency in (msec)	86	50	50	42	35

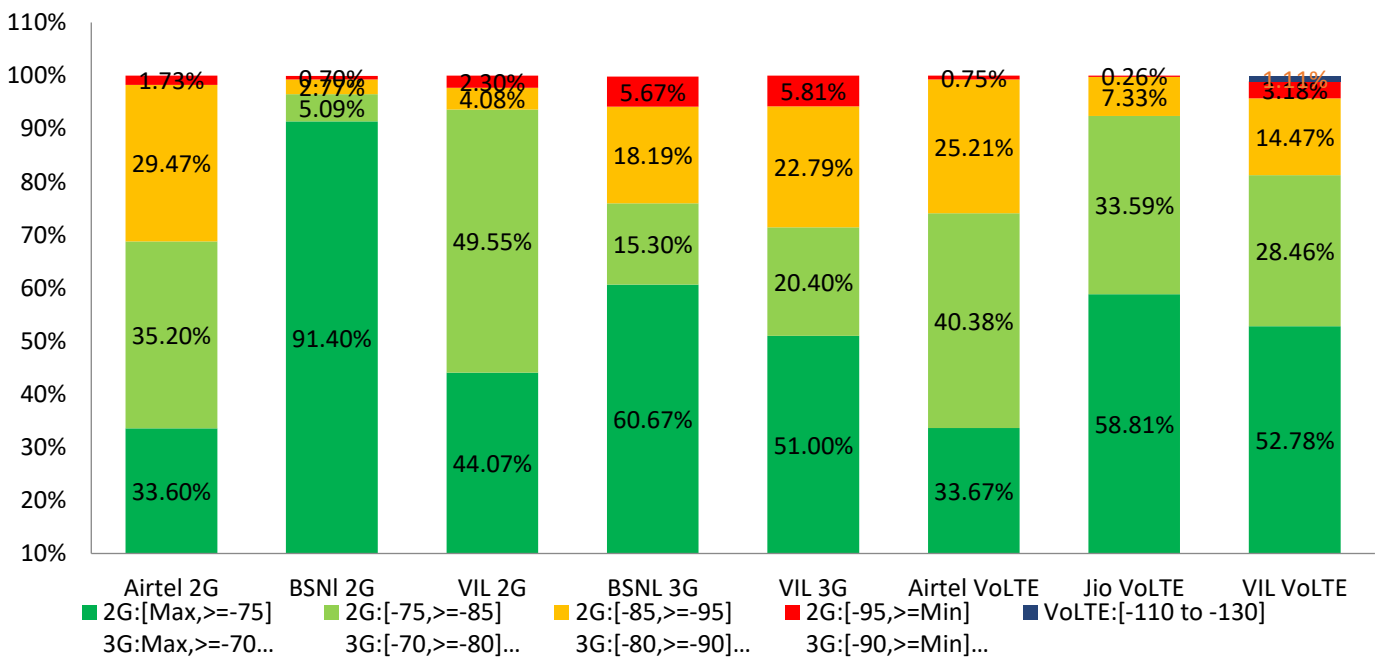
Dhenkanal Bus stand	3G		4G		
	BSNL	VIL	Airtel	JIO	VIL
Download throughput in Mbps	4.31	4.8	15.56	32.2	15.8
Upload Throughput in Mbps	1.61	2.7	4.26	4.9	8.7
Web browsing delay in second	3.41	0.60	7.73	1.7	0.42
Latency in (msec)	84.8	48	49	50	38

Dhenkanal Govt Hospital	3G		4G		
	BSNL	VIL	Airtel	JIO	VIL
Download throughput in Mbps	4.31	5.1	36.63	36.8	19.55
Upload Throughput in Mbps	1.61	2.8	17.35	13.8	11.7
Web browsing delay in second	3.41	0.55	12.45	1.9	0.44
Latency in (msec)	84.8	58	65	40	30

I. Coverage Details

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 ≥ -85 dBm, RSCP is ≥ -90 dBm & RSRP ≥ -110 dBm. The details are as follows.

TSP	Coverage Rate %
Airtel 2G	98.27
BSNL 2G	96.5
VIL 2G	93.62
BSNL 3G	75.98
VIL 3G	94.19
Airtel VoLTE	99.25
Jio VoLTE	99.74
VIL VoLTE	95.71



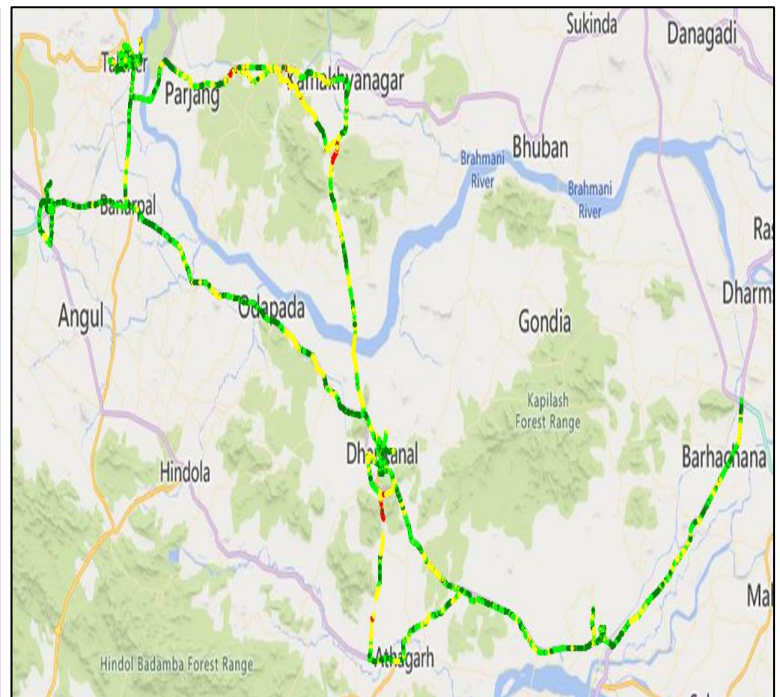
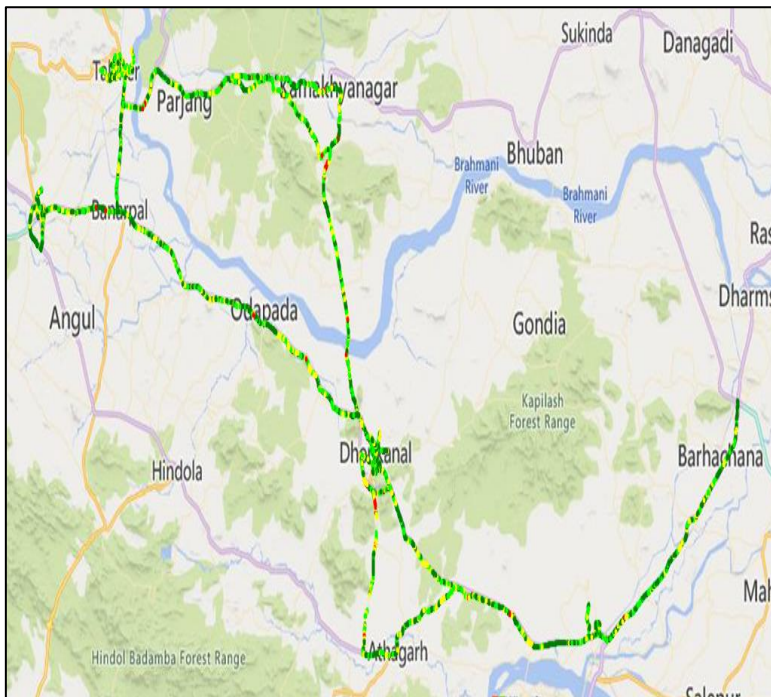
I. Coverage Details

AIRTEL

TSP	Coverage Rate %
Airtel 2G	98.27
Airtel VoLTE	99.25

2G

VoLTE



Overall RxLevel	# Samples	%
[Max, >=-75]	1983619	33.60%
[-75, >=-85]	2078077	35.20%
[-85, >=-95]	1739581	29.47%
[-95, >=Min]	102347	1.73%
Total	5903624	100%

Overall RSRP	# Samples	%
[Max, >=-80]	2788747	33.67%
[-80, >=-90]	3344599	40.38%
[-90, >=-110]	2088444	25.21%
[-110, >=-120]	61995	0.75%
[-120, >=Min]	8283785	100%

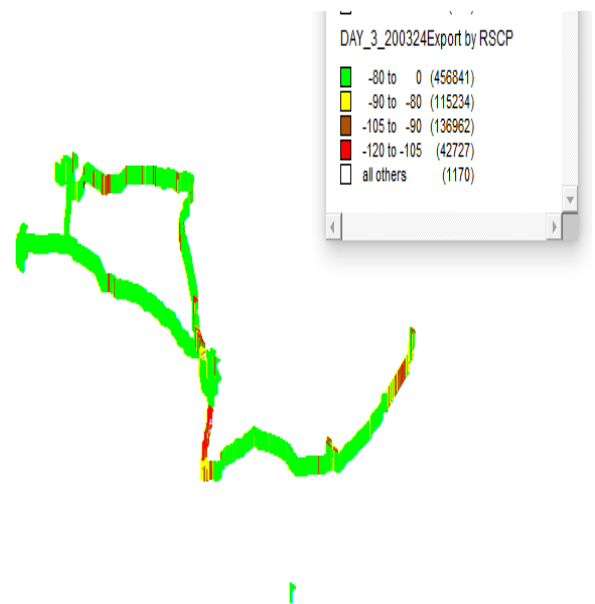
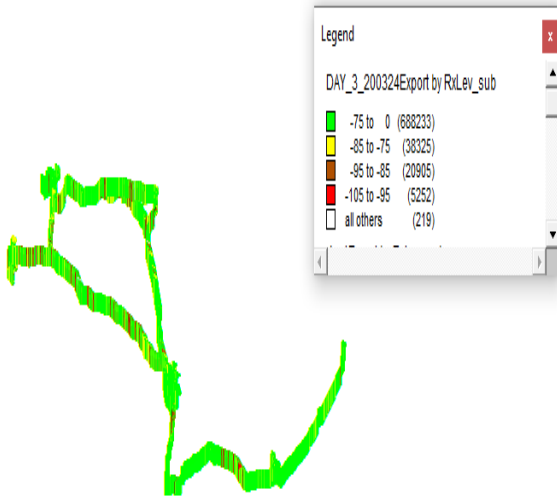
I. Coverage Details

BSNL

Technology	Coverage Rate %
2G	96.5
3G	75.98

2G

3G



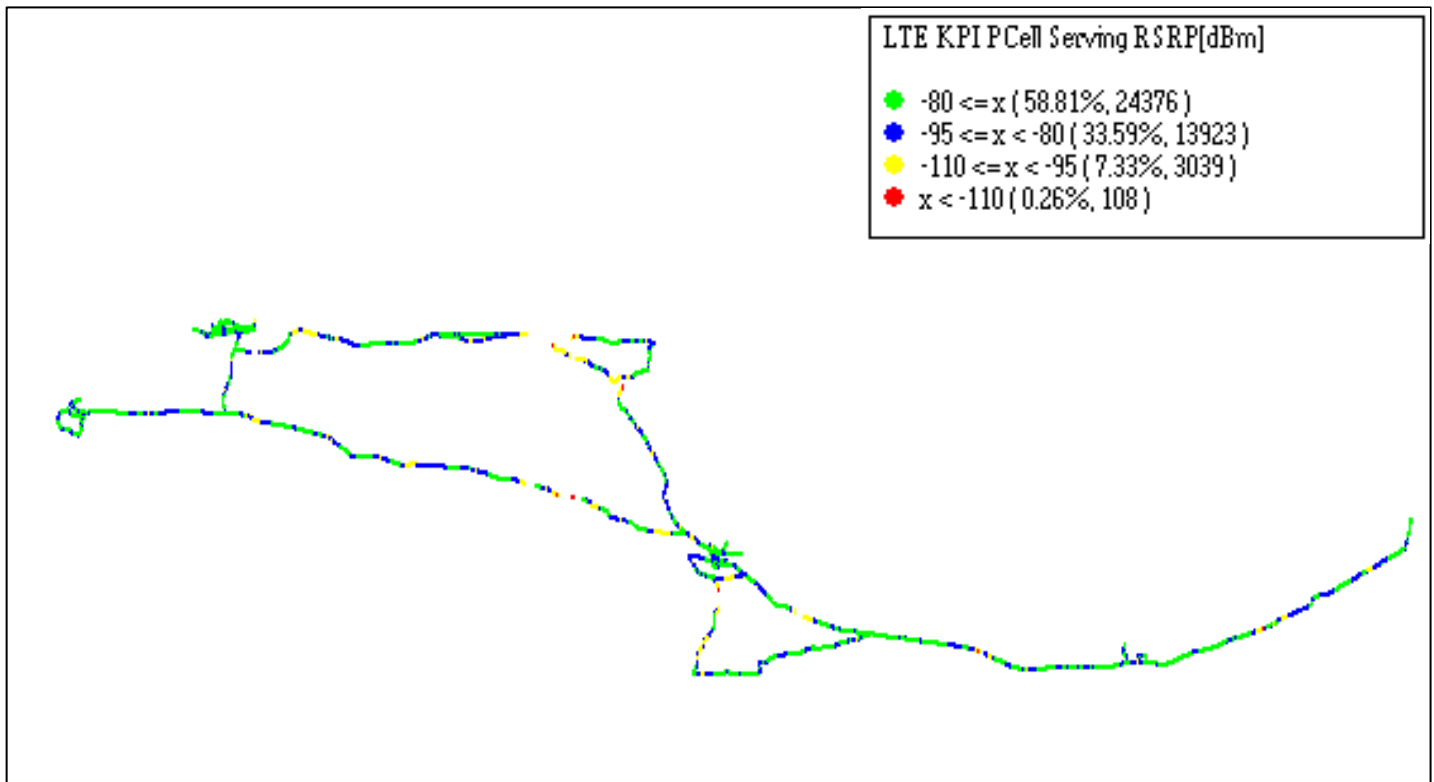
Overall Rx level	samples	%
-75 to 0	688233	91.40
-85 to -75	38325	5.09
-85 to -95	20905	2.77
-105 to -95	5252	0.7
All others	219	0.029

Overall RSCP	samples	%
-80 to 0	456841	60.67
-90 to -80	115234	15.30
-105 to -90	136962	18.19
-105 to -95	42727	5.67
All others	1170	0.15

I. Coverage Details

JIO

Technology	Coverage Rate %
VoLTE	99.74



Overall RSRP-Volte	# Samples	%
[Min, ≥ -80]	24376	58.81
[-80, = -90]	13923	33.59
[-90, ≤ -110]	3039	7.33
[-110, ≥ Min]	108	0.26
Total	41446	100

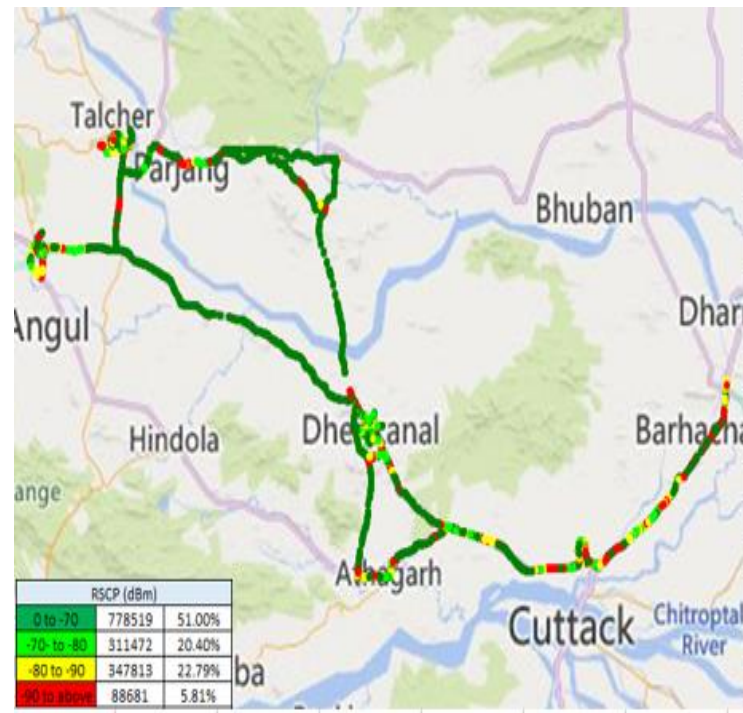
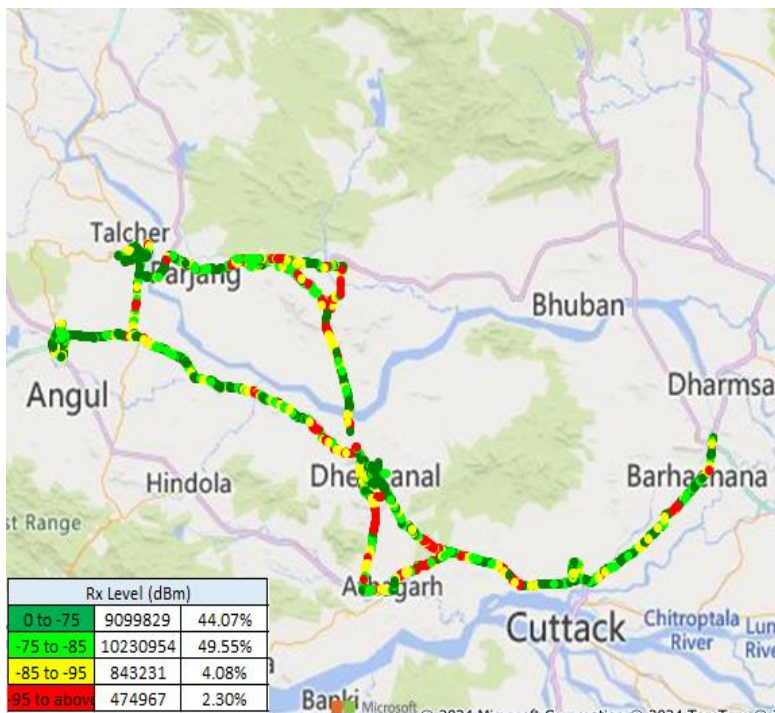
I. Coverage Details

VIL

Technology	Coverage Rate %
2G	93.62
3G	94.19

2G

3G



Overall Rx Level	# Samples	% PDF
[Max, >=-75]	9099829	44.07
[-75, >=-85)	10230954	49.55
[-85, >=-95)	843231	4.08
[-95, >=Min)	474967	2.30
Total	20648981	100

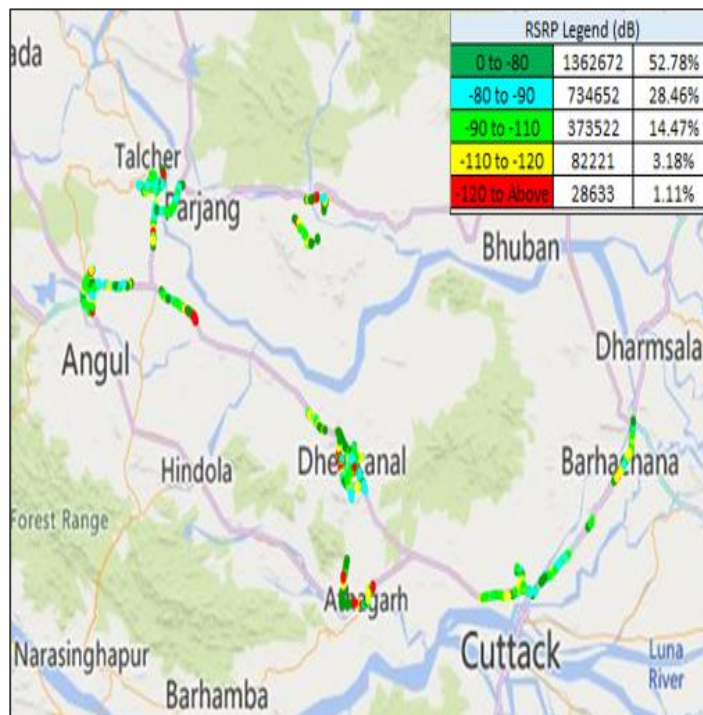
Overall RSRP	# Samples	% PDF
[Max, >=-70]	778519	51.00%
[-70, >=-80)	311472	20.40%
[-80, >=-90)	347813	22.79%
[-90, >=Min)	88681	5.81%
Total	1526485	100.00%

I. Coverage Details

VIL

Technology	Coverage Rate %
VoLTE	95.71

VoLTE

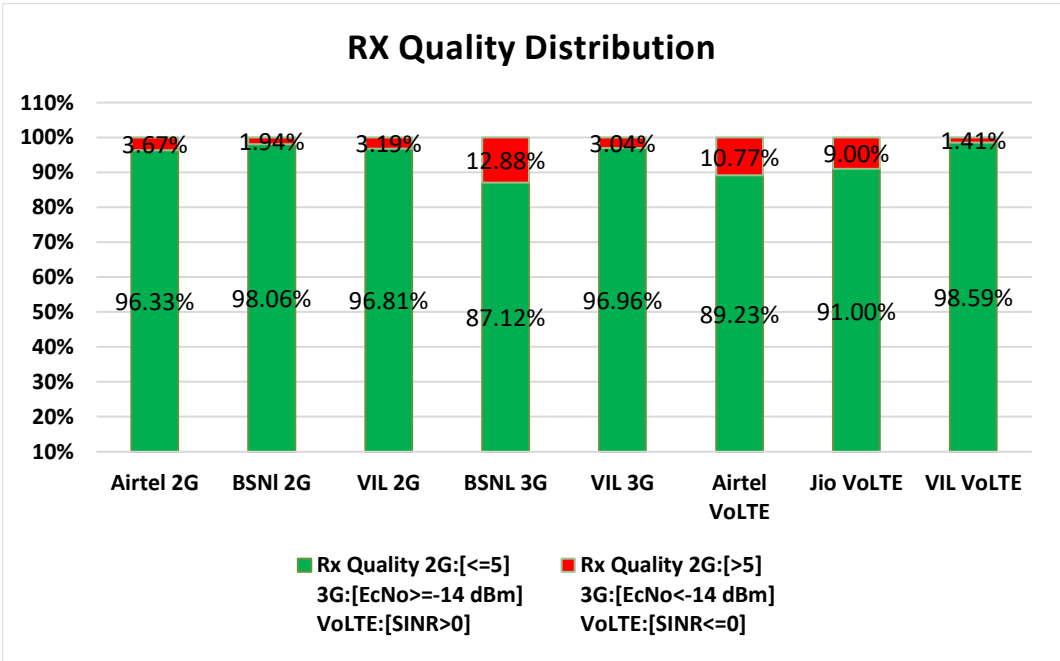


Overall RSRP	# Samples	% PDF
[Max, >=-80]	1362672	52.78
[-80, >=-90)	724652	28.46
[-90, >=-110)	373522	14.47
[110, >=-120)	82221	3.18
[120, >=Min)	28633	1.11
Total	2581700	100

II. Quality Details

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, whereas quality beyond this benchmark is considered to be bad. The benchmark should usually be $\geq 95\%$.

TSP	Rx Quality %
Airtel 2G	96.33
BSNL 2G	98.06
VIL 2G	96.81
BSNL 3G	87.12
VIL 3G	96.96
Airtel VoLTE	89.23
Jio VoLTE	91.00
VIL VoLTE	98.59

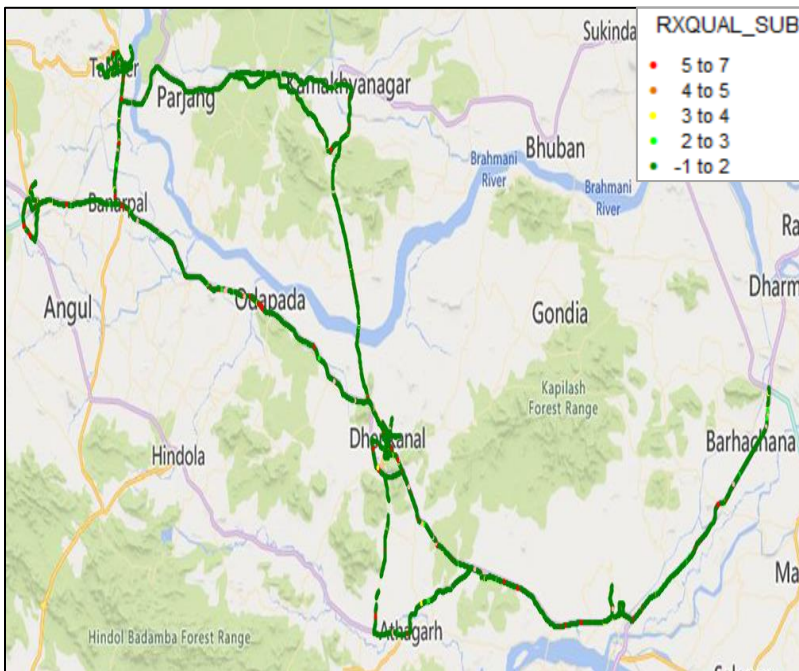


II. Quality Details

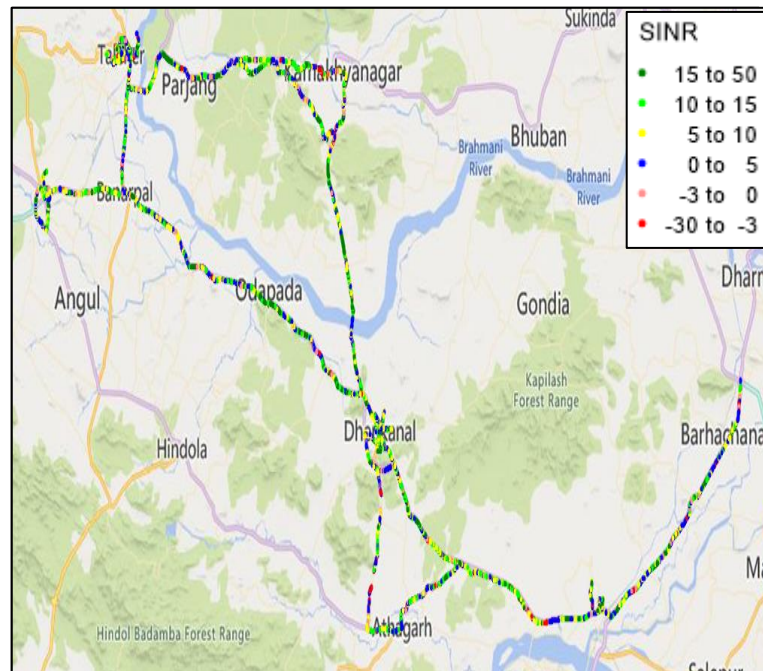
Airtel

Technology	Rx Quality %
2G	96.33
VoLTE	89.23

2G



VoLTE



Overall Rx Quality	# Samples	% PDF
(Min, <=2)	5349466	90.61%
(2, <=3)	117824	2.00%
(3, <=4)	121576	2.06%
(4, <=5)	98220	1.66%
(5, <=Max)	216538	3.67%
Total	5903624	100%

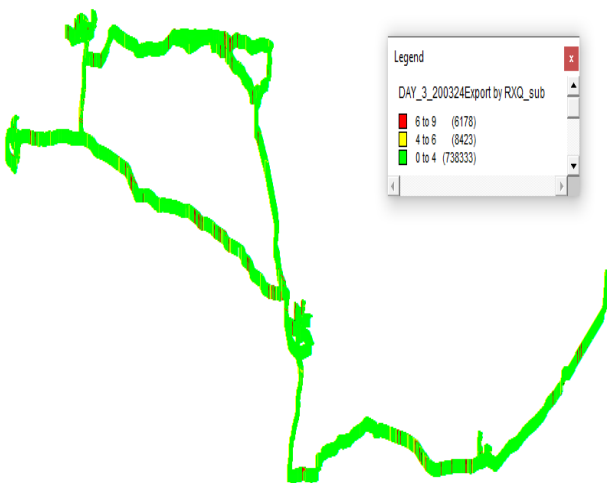
Overall SINR	# Samples	%PDF
(Min, <=-3)	286056	3.45%
(-3, <=0)	606621	7.32%
(0, <=5)	1998039	24.12%
(5, <=10)	2458380	29.68%
(10, <=15)	1785603	21.56%
(15, <=Max)	1149086	13.87%
Total	8283785	100

II. Quality Details

BSNL

Technology	Rx Quality %
2G	98.06
3G	87.12

2G



3G



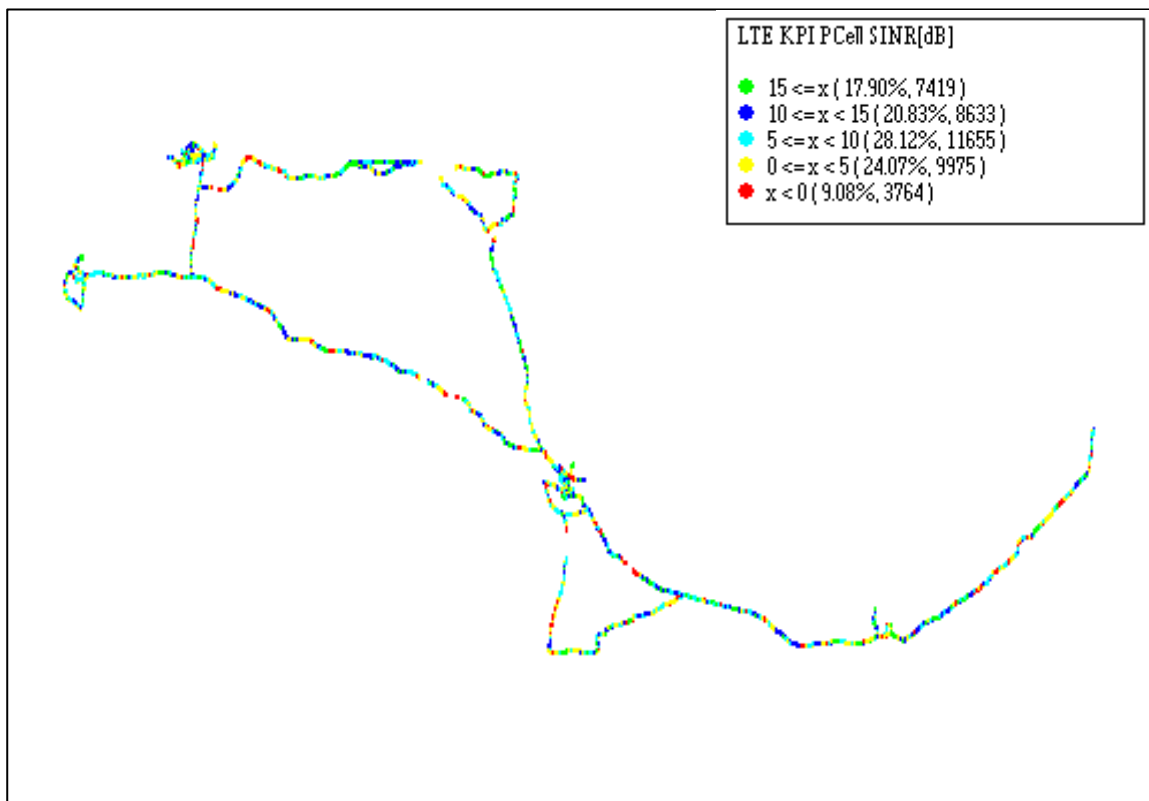
Overall Rx Quality	samples	%
(Min, <=2)	682472	91.39
(2, <=3)	30640	4.10
(3, <=4)	25221	3.77
(4, <=5)	6132	0.82
(5, <=Max)	2291	0.31
Total	746756	

Overall EcNo	samples	%
(Max, <=-6)	479955	64.27
(-6, <=-9)	107653	14.41
(-9, <=-11)	30516	4.09
(-11, <=-14)	32800	4.39
(-14, <=Min)	95832	12.83
Total	746756	

II. Quality Details

JIO

Technology	Rx Quality %
VoLTE	91.00



VoLTE		
Overall SINR	# Samples	%
(Min, ≤0)	3764	9.08
(0, ≤5)	9975	24.07
(5, ≤10)	11655	28.12
(10, ≤15)	8633	20.83
(15, ≤Max)	7419	17.90
Total	30807	100%

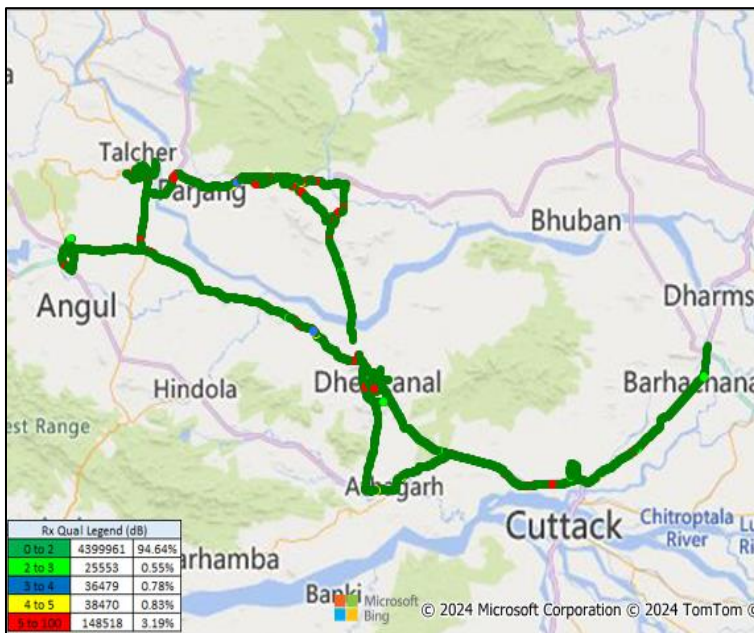
II. Quality Details

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

VIL

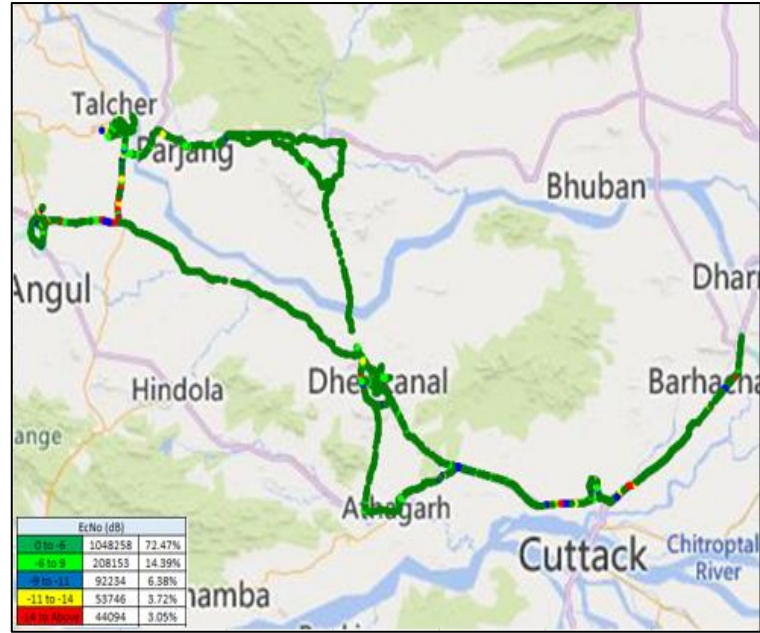
Technology	Rx Quality %
2G	96.81
3G	96.96

2G



Overall Rx Quality	# Samples	% PDF
(Min, ≤ 2)	4399961	94.64
(2, ≤ 3)	25553	0.55
(3, ≤ 4)	36479	0.78
(4, ≤ 5)	38470	0.83
(5, \leq Max)	148518	3.19
Total	4648981	100

3G



Overall Ec/No	# Samples	% PDF
[Max, ≥ -6]	1048258	72.47%
$[-6, \geq -9]$	208153	14.39%
$[-9, \geq -11]$	92234	6.38%
$[-11, \geq -14]$	53746	3.72%
$-14, \leq$ Min	44094	3.05%
Total	1446485	100.00%

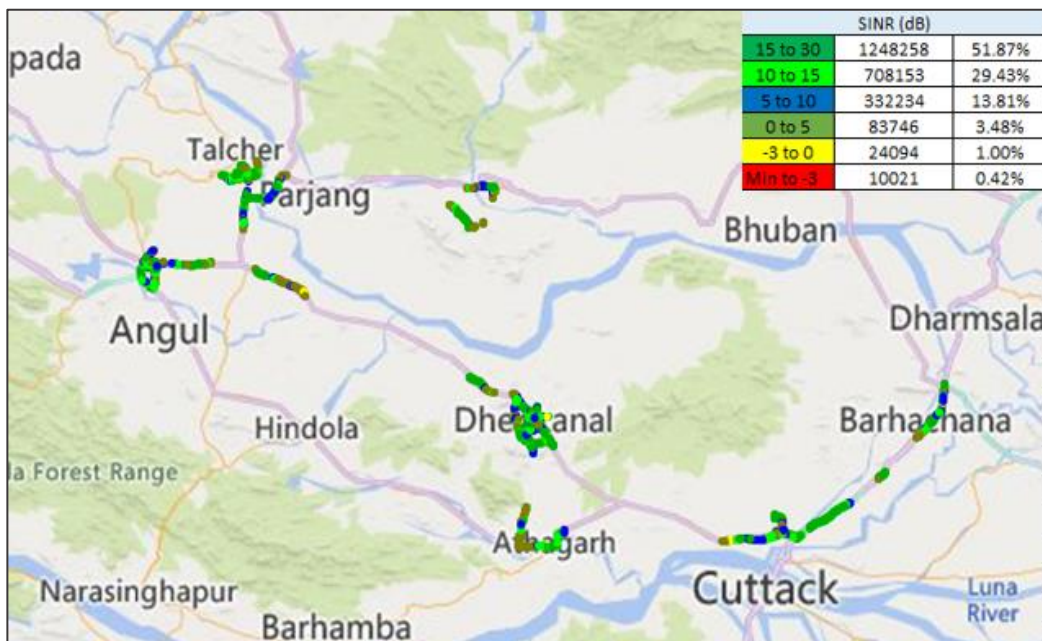
II. Quality Details

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

VIL

Technology	Rx Quality %
VoLTE	98.59

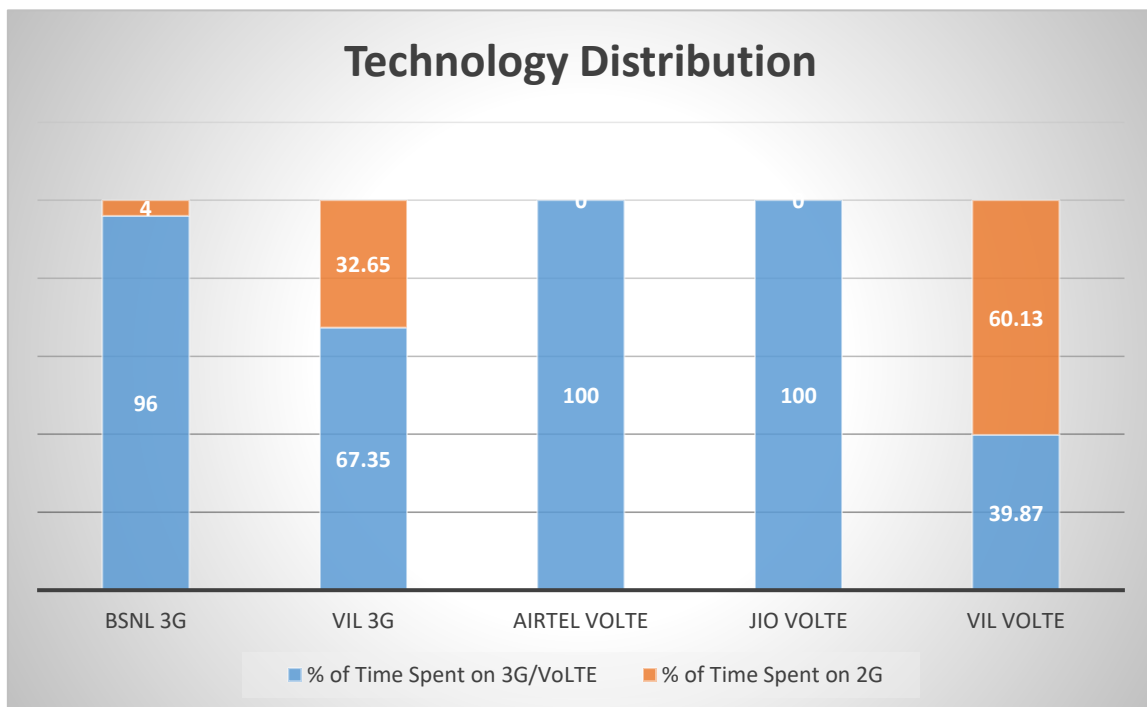
VoLTE



4G		
Overall SINR	# Samples	%
[Min, ≤ -3]	10021	0.42
$[-3, \leq 0)$	24094	1.00
$[0, \leq 5)$	83746	3.48
$[5, \leq 10)$	332234	13.81
$[10, \leq 15)$	708153	29.43
$[15, \leq \text{Max})$	1248258	51.87
Total	2406506	100

III. Technology Details

TSP	% of Time Spent on 3G/VoLTE
BSNL 3G	96
VIL 3G	67.35
Airtel VoLTE	100
Jio VoLTE	100
VIL VoLTE	39.87



III. Technology Details

Airtel

Technology	Time Spent on 4G
4G	100 %

BSNL

Technology	Time Spent on 3G
3G	96.00 %

JIO

Technology	Time Spent on 4G
4G	100 %

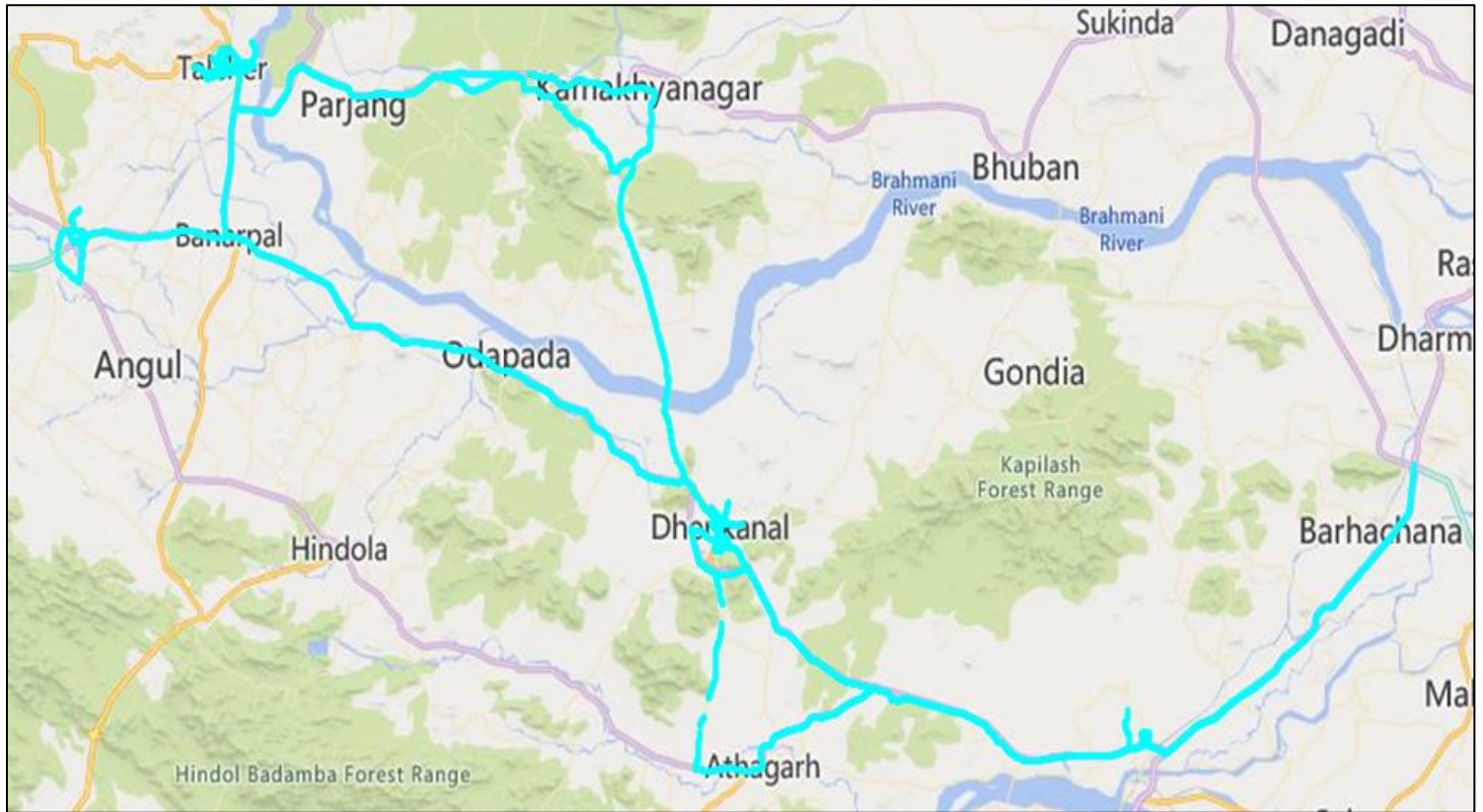
VIL

Technology	Time Spent on 4G
4G	39.87 %

III. Technology Details

Airtel

Technology	Time Spent on 4G
4G	100%



III. Technology Details

BSNL

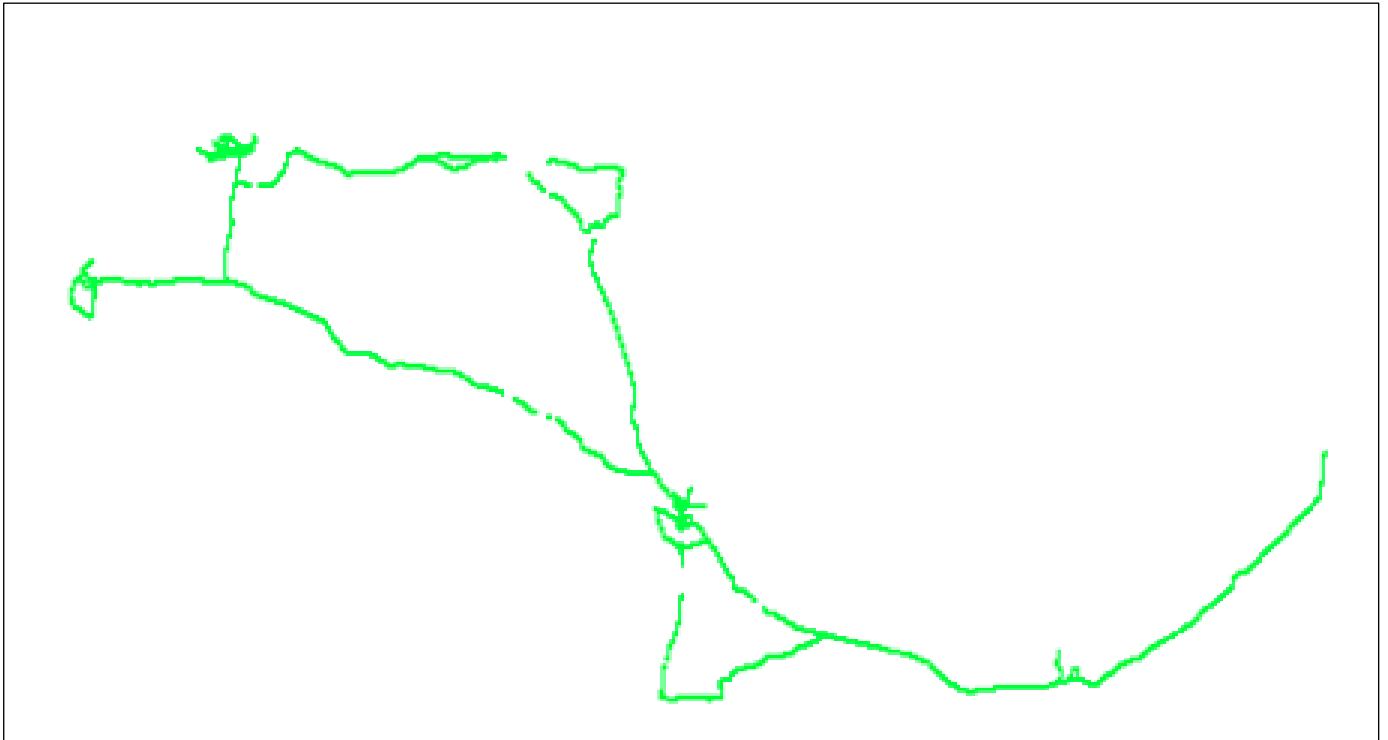
Technology	Time Spent on 3G
3G	96.00 %



III. Technology Details

JIO

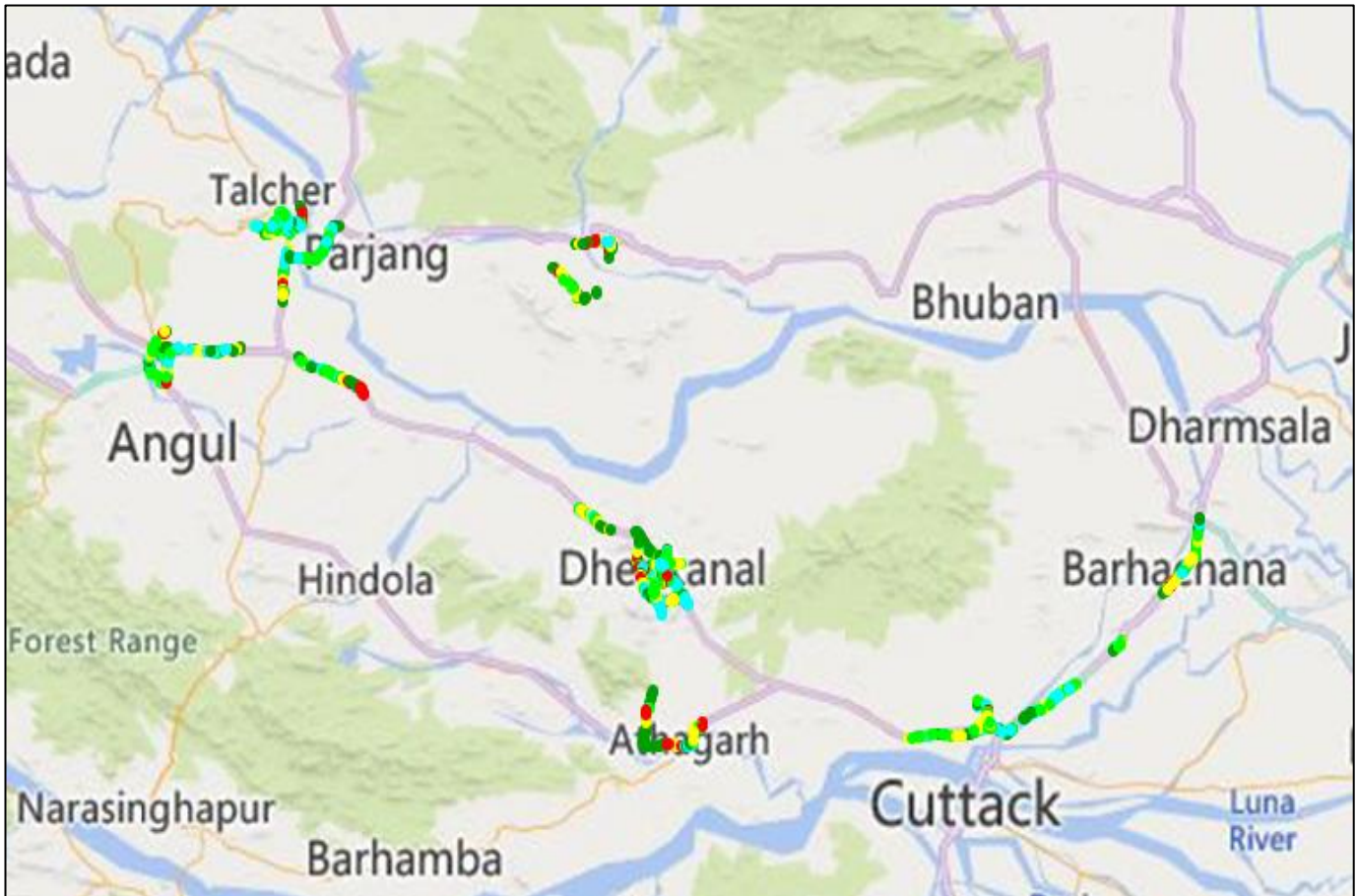
Technology	Time Spent on 4G
4G	100 %



III. Technology Details

VIL

Technology	Time Spent on 4G
4G	39.87 %

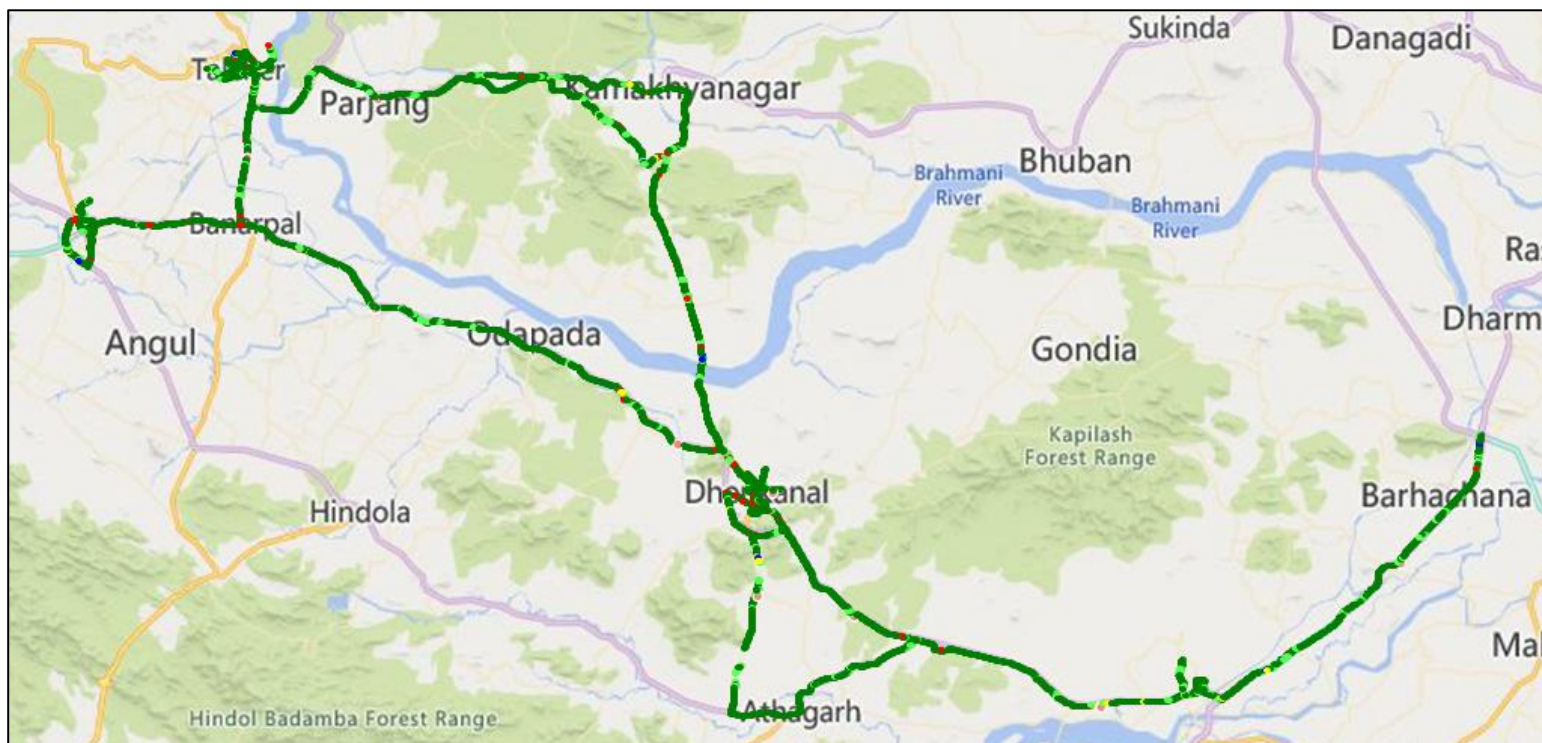


IV. Dynamic Data Test- 4G DL Details

Airtel

Data Statistics - Dynamic Complete SSA

Data KPIs – Overall	4G
Download Throughput (Mbps)	31.5



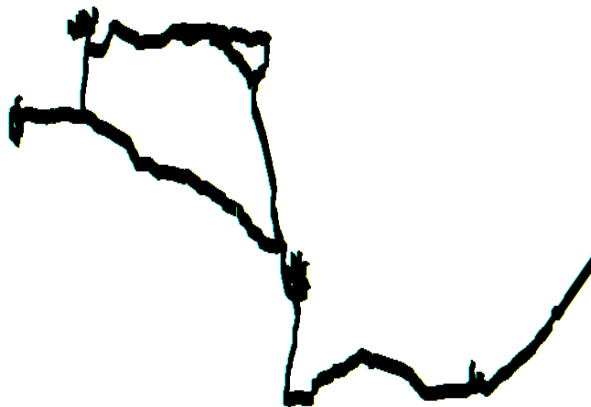
DL throughput	No of Sample	%
0 to 1 Mbps	252143	2.05
1 to 2 Mbps	36851	0.30
2 to 3 Mbps	65389	0.53
3 to 4 Mbps	75536	0.61
4 to 8 Mbps	510731	4.16
8 to 12 Mbps	654913	5.33
>12 Mbps	10789973	87.01
Total	12285536	100

IV. Dynamic Data Test- 3G DL Details

BSNL

Data Statistics - Dynamic Complete SSA

Data KPIs - Overall	3G
Download Throughput (Mbps)	0.434



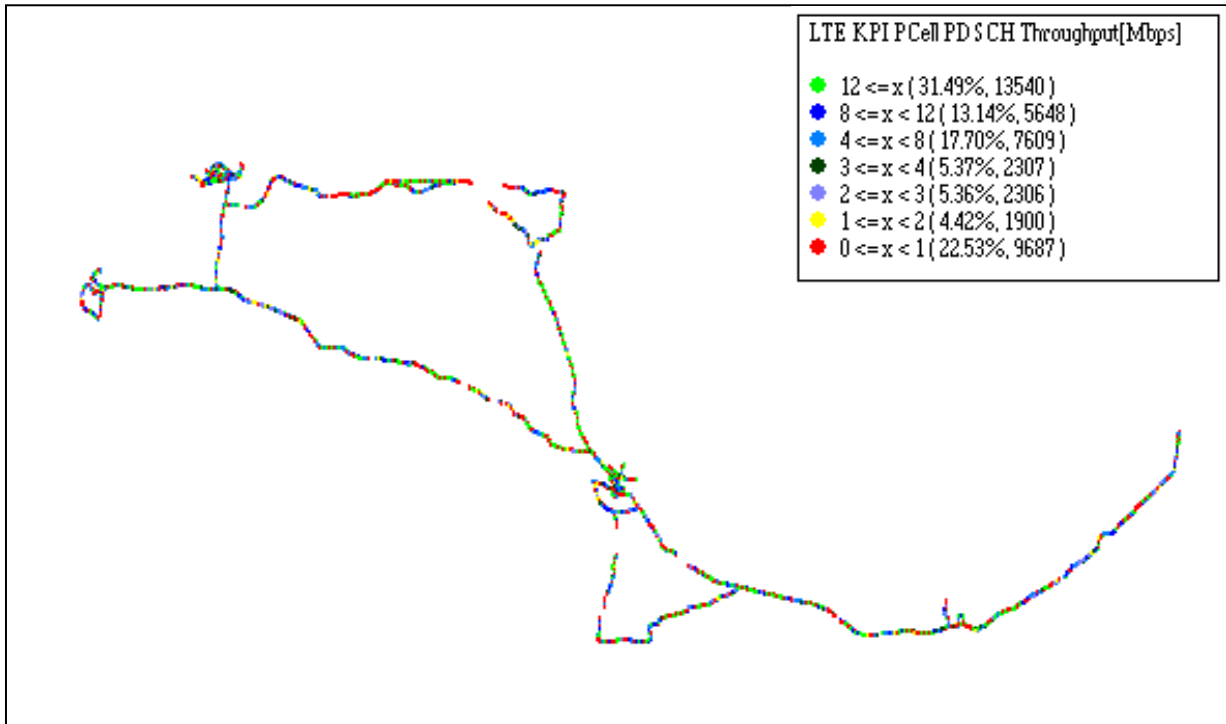
DL throughput	No of Samples	%
0 to 1 Mbps	9529	98.33
1 to 2 Mbps	161	1.66
2 to 3 Mbps	0	
3 to 4 Mbps	0	
4 to 8 Mbps	0	
8 to 12 Mbps	0	
>12 Mbps	0	

IV. Dynamic Data Test- 4G DL Details

JIO

Data Statistics - Dynamic Complete SSA

Data KPIs - Overall	4G
Download Throughput (Mbps)	15.92



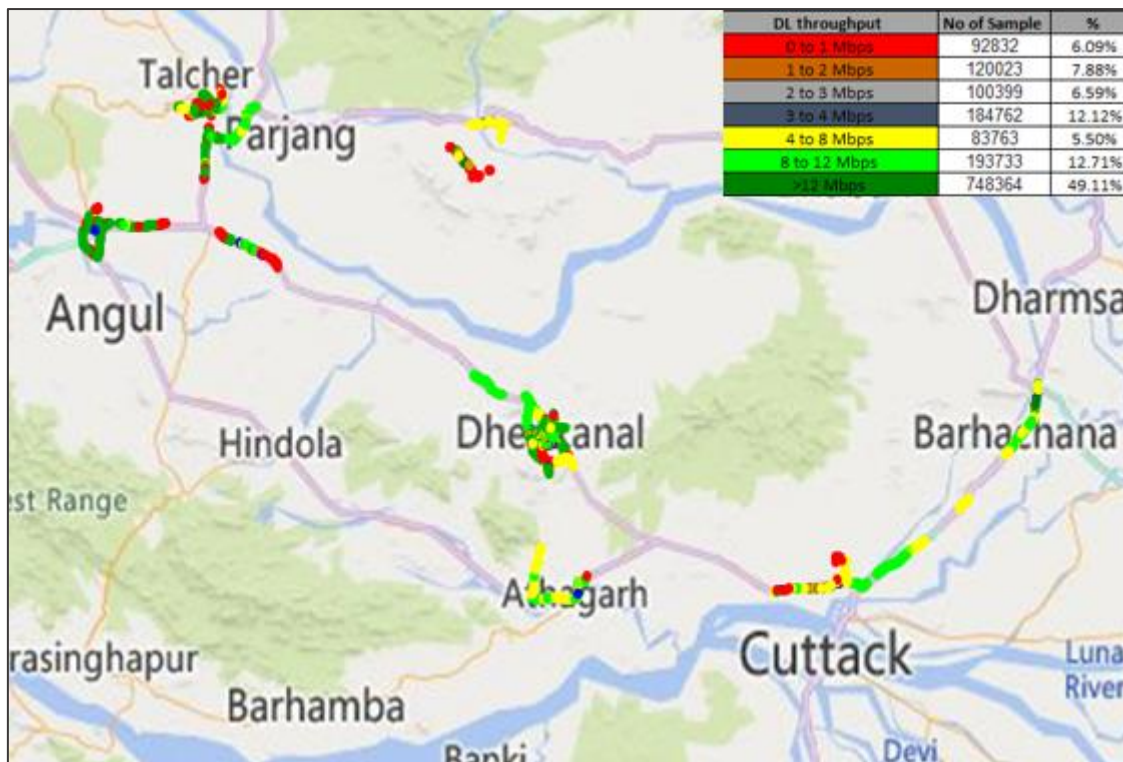
DL Throughput	No of Samples	%
0 to 1Mbps	9687	22.53
1 to 2Mbps	1900	4.42
2 to 3Mbps	2306	5.36
3 to 4Mbps	2307	5.37
4 to 8Mbps	7609	17.70
8 to 12 Mbps	5648	13.14
>12Mbps	13540	31.49

IV. Dynamic Data Test- 4G DL Details

VIL

Data Statistics - Dynamic Complete SSA

Data KPIs - Overall	4G
Download Throughput (Mbps)	11.17



DL throughput	No of Sample	%
0 to 1 Mbps	92832	6.09
1 to 2 Mbps	120023	7.88
2 to 3 Mbps	100399	6.59
3 to 4 Mbps	184762	12.12
4 to 8 Mbps	83763	5.50
8 to 12 Mbps	193733	12.71
>12 Mbps	748364	49.11
Total	1523876	100

Airtel

Technology-4G	Anugul Railway Station	Chandikhol bus stop	Talcher bus stop	Dhenkanal Railway station	Govt Hospital Dhenkanal	Dhenkanal bus stop
Download Speed Mbps	85.04	105.64	99.91	67.54	86.16	35.16
Upload Speed Mbps	36.09	36.26	48.79	32.06	45.61	19.27
Latency ms						

BSNL

Technology-4G	Anugul Railway Station	Chandikhol bus stop	Talcher bus stop	Dhenkanal Railway station	Govt Hospital Dhenkanal	Dhenkanal bus stop
Download Speed Mbps	8.66	3.81	4.39	4.89	4.31	4.38
Upload Speed Mbps	2.14	1.27	1.96	1.71	1.61	1.41
Latency ms	71	76.8	73.7	86	84.8	83.6

JIO

Technology-4G	Anugul Railway Station	Chandikhol bus stop	Talcher bus stop	Dhenkanal Railway station	Govt Hospital Dhenkanal	Dhenkanal bus stop
Download Speed Mbps	25.09	66.92	39.65	29.42	30.81	49.11
Upload Speed Mbps	48.94	25.85	9.05	24.88	22.42	5.45
Latency ms	67.9	72	61.2	55.2	71	91.4

VIL

Technology-4G	Anugul Railway Station	Chandikhol bus stop	Talcher bus stop	Dhenkanal Railway station	Govt Hospital Dhenkanal	Dhenkanal bus stop
Download Speed Mbps	16.59	27.79	16.61	23.84	14.12	16.49
Upload Speed Mbps	15.89	16.14	14.69	16.21	15.53	16.30
Latency ms						

NH/SH Routes Covered in OADT by Airtel/BSNL/RJIL/VIL				
S.No	No. of NH/SH Routes	NH routes	SH routes	Distance(Km)
1	Dhenkanal - Anugul	NH-55		30
		NH-53		40
2	Anugul - Talcher	NH-53		30
		NH-149		25
3	Dhenkanal - Choudwar	NH-55		50
4	Choudwar- Cuttack - Chandikhol	NH-55		20
		NH-16		50