

Operator Assisted Drive Test Report

WEST GODAVARI SSA JULY 2024

(RO, HYDERABAD)

<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%. All TSPs have met the Rx Quality of 95% except Airtel & VIL VoLTE.

The Operator Assisted Drive Test (OADT) has been carried out by TRAI RO Hyderabad with the help of Service Providers in West Godavari and surrounding areas Eluru, DwarakaTirumala, Jaggareddgudem, Bhimadolu, Prathipadu, Nidadavulu, Palakollu, Bhimavaram, Mogalturu, Narasapur from 9:00 AM to 8:00 PM during 2nd to 5th July 2024. The drive test covered drive route of 528KMs & 6 hotspot over a period of 4 days. Approximately 652 calls were made for each of the 7 networks: Three 2G networks, One 3G network and Three LTE network covering four TSPs.



Voice Summary



Overview

TRAI Hyderabad conducted Operator Assisted Drive Test from 2nd to 5th July 2024 covering various locations in West Godavari surrounding regions Eluru,,Dwaraka Thirumala,Bhimavaram,Narasapur.The performance of Airtel, BSNL, Jio and Vodafone Idea Limited 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 528KMs over a period of 4 days from 2nd to 5th July '2024. Approximately 652 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:

1.Dynamic data test was conducted for 528 kms over a period of 3 days for download throughput for 3G & 4G technologies.

Data Tests were performed at 6 static locations for 2G, 3G & 4G technologies of five iterations at each location.

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

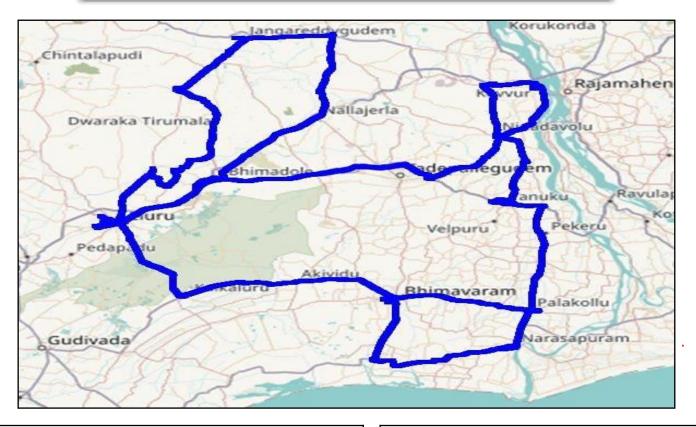
* 3G KPI's which are calculated from UE in Dual Mode (2G & 3G) includes samples and events of 2G.

* 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 www.myntra.com				
Video Streaming	130 Sec Clip				
Latency	32 Bytes on www.google.com				

Overview

Voice & Dynamic Data Test Drive Route

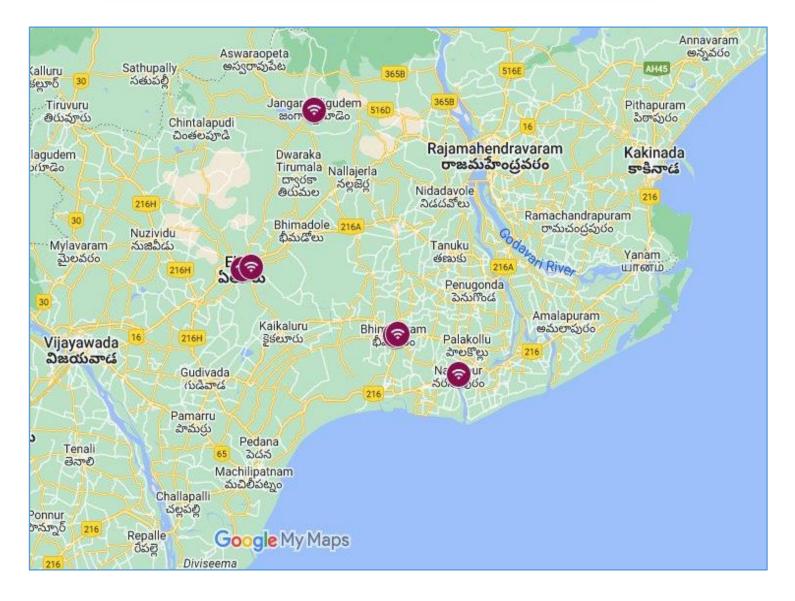


Day-1 Areas Covered -Eluru-Jangareddygudem- Nallajerla-Eluru				
Eluru	Munduru			
Munduru	Challachintalapudi			
Challachintalapudi	Dwaraka Tirumala			
Dwaraka Tirumala	Jangareddy gudem			
Jangareddy gudem	Jangareddy gudem Bus station			
Jangareddy gudem Bus station	Koyyalagudem			
Koyyalagudem	Nallajerla			
Nallajerla	Bhimadolu			
Bhimadolu	Eluru			
Day-2 Eluru-Prathipadu-	Nidadavolu-Kovvuru-			
Tanuku-Na	rsapur			
Eluru	Bhimadolu			
Bhimadolu	Kaikaram			
Kaikaram	Prathipadu			
Prathipadu	Nidadavole			
Nidadavole	Chagallu			
Chagallu	Kovvur			
Kovvur	Vijjeswaram			
Vijjeswaram	Tanuku			
Tanuku	Palakollu			
Palakollu	Narsapur			

Day-3 Narsapur – Bhimavaram – Kottata –						
Mogalturu – Narsapur						
Narsapur	Palakollu					
Palakollu	Bhimavaram					
Bhimavaram	Nagidipalem					
Nagidipalem	Pathapadu					
Pathapadu	Kottata					
Kottata	Mogalturu					
Mogalturu	Narsapur					
Day-4 Bhimavaram – Ak	kivedu – Kaikaluru –					
Eluri	u					
Bhimavaram	Undi					
Undi	Akivedu					
Akivedu	Kaikaluru					
Kaikaluru	Munugunuru					
Munugunuru	Eluru					
Kaikaluru	Munugunuru					

Overview

Data Service Test- Static Locations



6 Static	Locations
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Jangareddy Gudem Bus stand

Bhimavaram Railway station

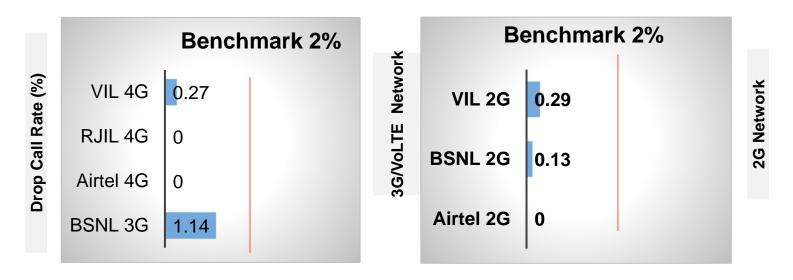
Bhimavaram Bus stand

Narsapur Railway station

Eluru Railway station

Eluru Govt Hospital

QoS compliance of the TSPs in West Godavari SSA for Voice across technologies 2G/3G/VoLTE:



(%)		Benchmark 3%	vork	Ber	nchmark 3%	
Rate (%	VIL 4G	0	E Network	VIL 2G	0.29	ork
Call F	RJIL 4G	0.58	VoLT	BSNL 2G	1.04	h Netwo
Block	Airtel 4G	0	3G /	DONE 20	1.04	26
ш	BSNL 3G	0.28		Airtel 2G	0	

KPIs	2G			3G	VoLTE		
	Airtel	BSNL	VIL	BSNL	Airtel	JIO	VIL
Drop Call Rate %	0	0.13	0.29	1.14	0	0	0.27
Block Call Rate %	0	1.04	0.29	0.28	0	0.58	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 $2G \ge -85$ dBm.

TSPS	2G				
1353	Airtel	BSNL	VIL		
Coverage %	75.84	84.7	82.09		

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

TCD	3G	VoLTE _(≥ -110 dBm)				
TSP	BSNL	Airtel	JIO	VIL		
Coverage %	85.3	96.9	97.14	95.33		

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

	3G	VoLTE				
TSP	BSNL	Airtel	JIO	VIL		
Time spent %	44.5	100	100	99.91		

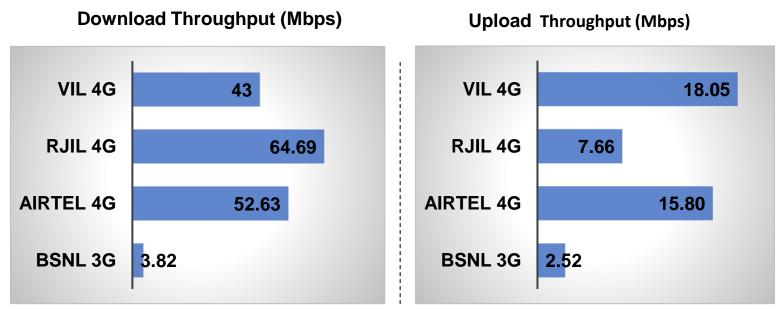
Data Services Static

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:



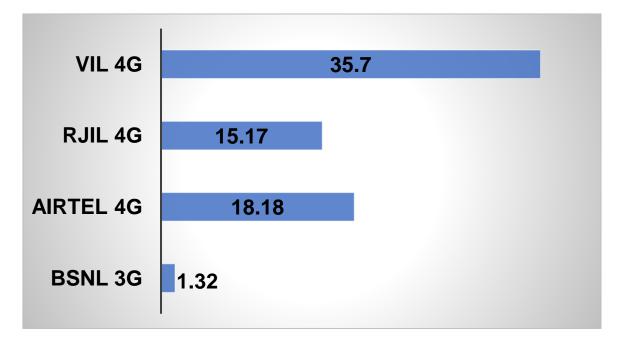
Web Browsing delay (Sec)				Latency (ms)
VIL 4G	2.19		VIL 4G	89.17
RJIL 4G	1.40		RJIL 4G	32.1
Airtel 4G	0.41		Airtel 4G	22.65
BSNL 3G	8.10		BSNL 3G	49.13

Data Services Dynamic

Dynamic Data was tested, Download Throughput was tested.

Data Download Performance (kbps) - Dynamic

3G/4G Network:



Key

Observations

Data Services Dynamic	3G / 4G					
Data Services Dynamic	BSNL 3G	Airtel 4G	JIO 4G	VIL 4G		
Download throughput in Mbps	1.32	18.18	15.17	35.7		

Summary

SSA Level Summary-Voice

Voice Calls	2G				
VOICe Calls	Airtel	BSNL	VIL		
Call attempts	670	768	687		
Block call rate %	0	1.04	0.29		
CSSR %	100	98.96	99.71		
Drop call rate %	0	0.13	0.29		
Mobility HOSR %	97.69	95.14	99.78		
RX Quality %	95.53	97.4	96.80		

Voice Calls	3G		VoLTE	
TSP (For 3G)	BSNL	Airtel	JIO	VIL
Call attempts	349	698	1203	723
Block call rate %	0.28	0	0.58	0.00
CSSR %	99.72	100	99.41	100
Drop call rate %	1.14	0	0	0.27
Mobility HOSR %	100	99.91	98.76	99.78
RX Quality %	96.3	93.83	97.99	88.59

Summary

Dete Comrisse Statio	2G			
Data Services Static	Airtel	BSNL	VIL	
Download throughput in Kbps	189.3	114.0	112.05	
Upload Throughput in Kbps	87.90	132.01	100.81	
Web browsing delay in second	3.982	61.64	12.13	
Latency in (msec)	144.7	123.51	188.08	

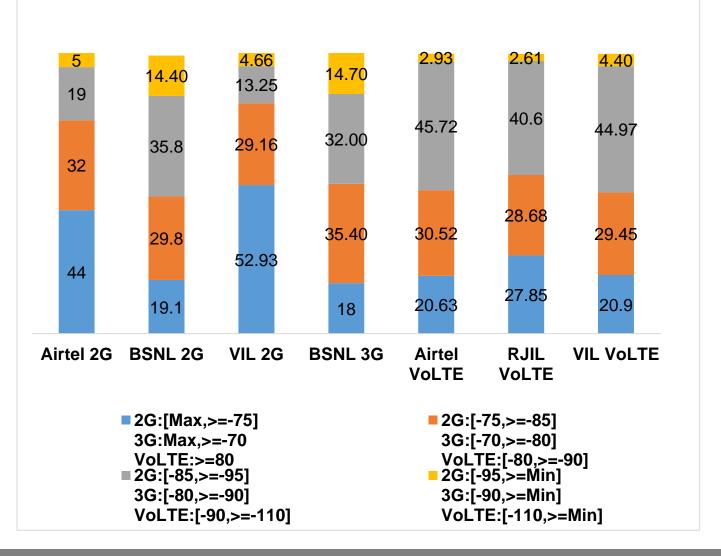
Data Services Static	3G / 4G			
Data Services Static	BSNL 3G	Airtel 4G	JIO 4G	VIL 4G
Download throughput in Mbps	3.82	52.63	64.69	43
Upload Throughput in Mbps	2.52	15.8	7.66	18.05
Web browsing delay in second	8.10	0.41	1.4	2.19
Latency in (msec)	49.13	22.65	32.1	89.17

Data Services Static	SSA Level Summary		
Jangaraddy Cudam Rua atand		2G	
Jangareddy Gudem Bus stand	Airtel	BSNL	VIL
Download Throughput (kbps)	213.3	47.49	93.10
Upload Throughput (kbps)	127.8	68.73	101.00
Web Browsing Delay (sec)	3.12	85.26	12.50
Latency (msec)	151.4	127.42	207.00
Bhimavaram Railway Station	Airtel	2G BSNL	VIL
Download Throughput (kbps)	181.7	56.01	95.30
Upload Throughput (kbps)	82.5	100.64	97.64
Web Browsing Delay (sec)	2.7	108.21	13.60
Latency (msec)	144.6	120.67	197.4
		2G	
Bhimavaram Bus stand	Airtel	BSNL	VIL
Download Throughput (kbps)	181.8	49.77	101.2
Upload Throughput (kbps)	97.1	91.99	98.54
Web Browsing Delay (sec)	3.99	53.39	12.20
Latency (msec)	144	135.98	211.70
Narcanur Pailway Station		2G	
Narsapur Railway Station	Airtel	BSNL	VIL
Download Throughput (kbps)	148.3	169.22	145.00
Upload Throughput (kbps)	26.0	90.78	112.00
Web Browsing Delay (sec)	4,60	57.89	9.80
Latency (msec)	178.8	116.66	187.40
Eluru Railway Station		2G	
•	Airtel	BSNL	VIL 100 50
Download Throughput (kbps)	247.7	170.72	122.50
Upload Throughput (kbps)	112.8	84.62	139.20
Web Browsing Delay (sec)	6	34.41	13.10
Latency (msec)	135.8	121.53	168.00
Eluru Govt. Hospital	Airtel	2G BSNL	VIL
Download Throughput (kbps)	163.1	190.81	115.20
Upload Throughput (kbps)	81.3	85.10	56.48
Web Browsing Delay (sec)	4.1	30.71	11.60
Latency (msec)	113.6	117.65	157

Data Services static				SSA Leve		d.)
longereddyCudem Bueete	nd	3G		40	•	
JangareddyGudem Bussta	ana	BSNL	Airtel	JIO		VIL
Download Throughput (Mbp		2.29	43.86		-	24.18
Upload Throughput (Mbps)		1.78	12.46	7.12	2	14.84
Web Browsing Delay (sec)		19.22	0.25	1.70)	2.30
Latency (msec)		47.73	26.4	45		98.00
Bhimavaram Railway Stati	ion	3G BSNL	Airtel	40 JIO	}	VIL
Download Throughput (Mbp	s)	1.61	85.16	40.64	4	45.05
Upload Throughput (Mbps)		1.47	21.62			19.01
Web Browsing Delay (sec)		17.98	0.44	1.50		2.00
Latency (msec)		83.40	19.2	19		78.00
Phimovorom Puo stand		3G		40	3	
Bhimavaram Bus stand	ŀ	Airtel	Airtel	JIO		VIL
Download Throughput (Mbps)		2.03	33.06	46.05	5	55.65
Upload Throughput (Mbps)	4	2.11	11.12	10.45	5	10.86
Web Browsing Delay (sec)		3.91	1.8	1.19		2.98
Latency (msec)	44.85		29.6	28		121
		3G		40	3	
Narsapur Railway Station	E	BSNL	Airtel	JIO		VIL
Download Throughput (Mbps)		7.73	32.14	91.04	4	43.06
Upload Throughput (Mbps)		2.95	13.74	9.01		23.05
Web Browsing Delay (sec)		2.08	0.61	1.31		1.98
Latency (msec)	Z	47.11	19.3	33		92.00
Elury Deilway Station		2G		4(G	
Eluru Railway Station	E	BSNL	Airtel	JIO		VIL
Download Throughput (Mbps)		4.48	32.04	51.5	5	40.28
Upload Throughput (Mbps)		3.37	12.46	5 7.12	2	20.36
Web Browsing Delay (sec)		3.34	0.35	1.48	3	2.00
Latency (msec)	3	35.62	21.3	37		72.00
Eluru Govt. Hospital		3G		4		
· · · · · · · · · · · · · · · · · · ·		BSNL 4.81	Airte			VIL 40.80
Download Throughput (Mbps) Upload Throughput (Mbps)		3.49	32.12 13.14			49.80 20.17
Web Browsing Delay (sec)		2.08	0.36			1.90
Latency (msec)	;	36.08	20.1			74.00

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	75.84
BSNL 2G	84.7
VIL 2G	82.09
BSNL 3G	85.3
Airtel VoLTE	96.9
JIO VoLTE	97.14
VIL VoLTE	95.33

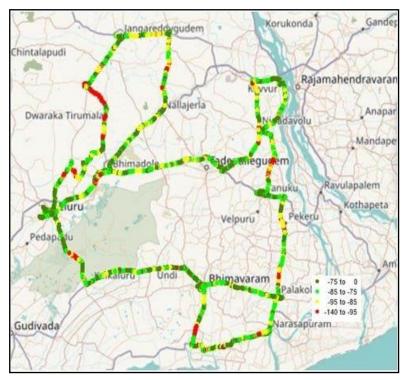


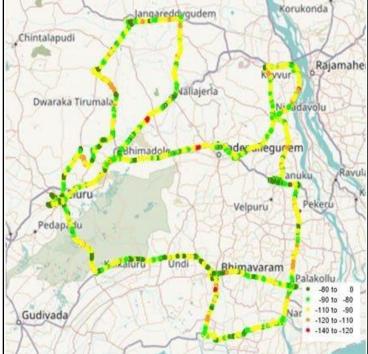
I. Coverage Details

AIRTEL

Technology99.2	Coverage Rate %
2G	75.84
VoLTE	96.9

2**G**





26	2G			
Overall RxLevel	# Samples	%		
[Max, >=-75]	2308753	44.00		
[-75, >=-85]	1648961	31.84		
[-85, >=-95]	979411	19.00		
[-95, >=Min]	281411	5.00		
Total	5218536	100		

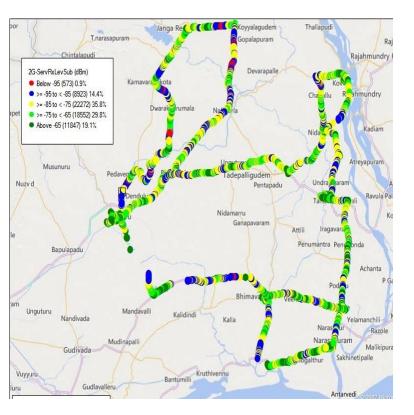
VoLTE			
Overall RSRP	# Samples	%	
[Max, >=-80]	1939797	20.63	
[-80, >=-90]	2869691	30.52	
[-90, >=-110]	4298102	45.75	
[-110, >=-120]	275030	2.90	
[-120, >=Min]	18786	0.20	
Total	9401406	100	

I. Coverage Details

BSNL

Technology	Coverage Rate %
2G	84.7
3G	85.3

2G



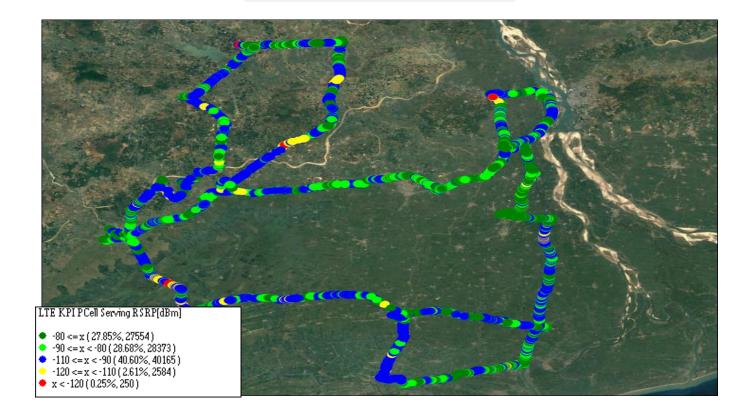
Gande Koyyalagudem Janga Red Sudem Thallapudi T.narasapura Gopalapuram Rajanagaram Ran Rajahmundry Rural Chintalapudi Devarapalle Kow DUAL MODE-Uu_ActiveSet_RSCP_0 (dBm Rajahmundry Below -90.00 (4699) 14.7% >= -90.00 to < -80.00 (10243) 32.0%</p> Anapa >= -80.00 to < -70.00 (11329) 35.4% Above -70.00 (5762) 18.0% Kadian Mandapet Atreyapuram Ungutur Musunuru Peda Tadepalligudem Undrajava Pentapadu Alamuru Ravula Palem Tanuku Pere Kapi Nidamarru Kothapeta Ganapavaram Attili Iragavarar Penumantra Penu-p Bapulapadu Ambaj Achanta navaram Podu Bhimay Mandavalli guturu Kalidindi Mamidikudu Nandivada Kalla Yelamanchili Razol Mudinapalli Nara Malikipu Gudivada etipalle 10 Miles Kruthive

3G

2G			
Overall RxLevel	# Samples	% PDF	
[Max, >=-65]	11847	19.1	
[-65, >=-75)	18552	29.8	
[-75, >=-85)	22272	35.8	
[-85,>=-95]	8923	14.4	
[-95, >=Min)	573	0.9	
Total	62167	100	

3G				
Overall RSCP	# Samples	% PDF		
[Max, >=-70]	5762	18.0		
[-70, >=-80)	11329	35.3		
[-80, >=-90)	10243	32.0		
[-90, >=Min)	4699	14.7		
Total	32033	100		

Technology	Coverage Rate %
VoLTE	97.4



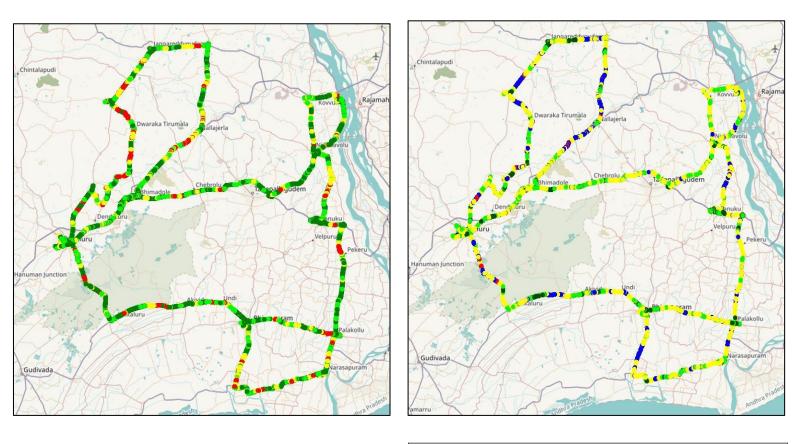
	VoLTE		
Overall RSRP	# Samples	%	
[Max, >=-80]	27554	27.85	
[-80, >=-90]	28373	28.68	
[-90, >= <mark>-110</mark>]	40165	40.87	
[-110, >=-120]	2584	2.35	
[<mark>-120</mark> , >=Min]	250	0.25	
Total	98926	100	

I. Coverage Details

VIL

Technology	Coverage Rate %
2G	82.09
VoLTE	95.33

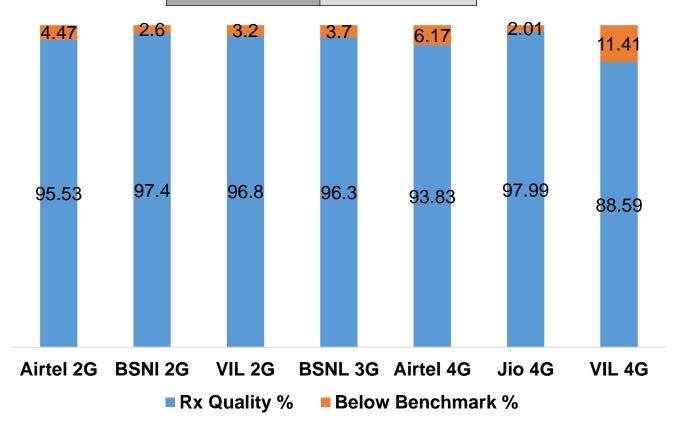
2G



	2G			VoLTE	
Overall RxLevel	# Samples	%	Overall RSRP	# Samples	%
[Max, >=-75]	4119689	52.93	[Max, >=-80]	4120844	20.90
• • •			[-80, >=-90]	5806034	29.45
[-75, >=-85]	2269581	29.16	[-90, >=-110]	8864388	44.98
[-85, >=-95]	1031465	13.25	[-110, >=-120]	867844	4.40
[-95, >=Min]	362605	4.66	[-120, >=Min]	53321	0.27
Total	7783340	100	Total	19712431	100

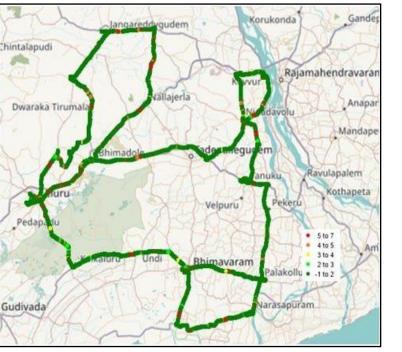
For measuring voice quality, as per the QoS norms, Rx Qual <=5 for GSM TSPs, EcNo >= -14 dBm for 3G TSP sand SINR >0 in case of VoLTE is considered to be good, where as quality beyond this benchmark is considered to be bad. The benchmark should usually be \geq 95%.

TSP	Rx Quality %	
Airtel 2G	95.53	
BSNL 2G	97.40	
VIL 2G	96.80	
BSNL 3G	96.30	
Airtel 4G	93.83	
JIO 4G	97.99	
VIL 4G	88.59	



Airtel		
Technology Rx Quality %		
2G	95.53	
VoLTE	93.83	

2G





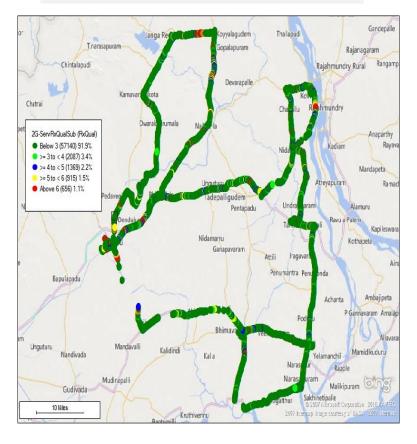
Overall Rx Quality	# Samples	%
(Min, <=2)	4493791	89.16
(2, <=3)	102454	2.03
(3 , <=4)	101435	2.38
(4 , <=5)	98592	1.96
(5 , <=Max)	244094	4.47
Total	5040366	100

Overall SINR	# Samples	%
(Min, <=-3)	314518	3.04
(-3, <=0)	343174	3. 13
(0, <=5)	2880721	28.48
(5, <=10)	2622849	25.69
(10, <=15)	2396053	23.47
(15, <=Max)	1652681	16.19
Total	10209996	100

BSNL

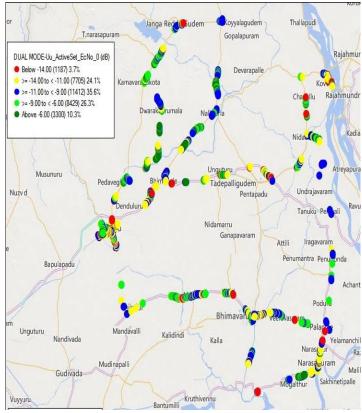
Technology	Rx Quality %
BSNL 2G	97.4
BSNL 3G	96.3

2G



Overall Rx Quality	# Samples	% PDF
(Min, <=3)	57140	91.80
(3 , <=4)	2087	3.40
(4 , <=5)	1369	2.20
(5 , <=Max)	1571	2.60
Total	62167	100

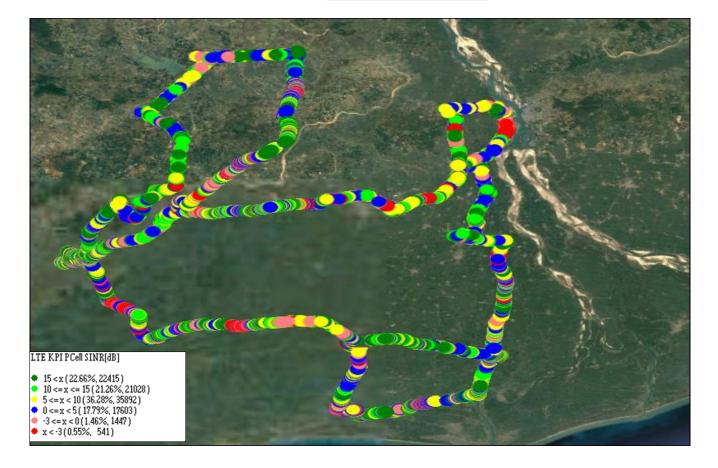
3G



3G		
Overall EcNo	# Samples	% PDF
(Max, <=-6)	3300	10.30
(-6, <=-9)	8429	26.30
(-9, <=-11)	11412	35.60
(-11, <=-14)	7705	24.10
(-14, <= Min)	1187	3.70
Total	32033	100

Quality Details

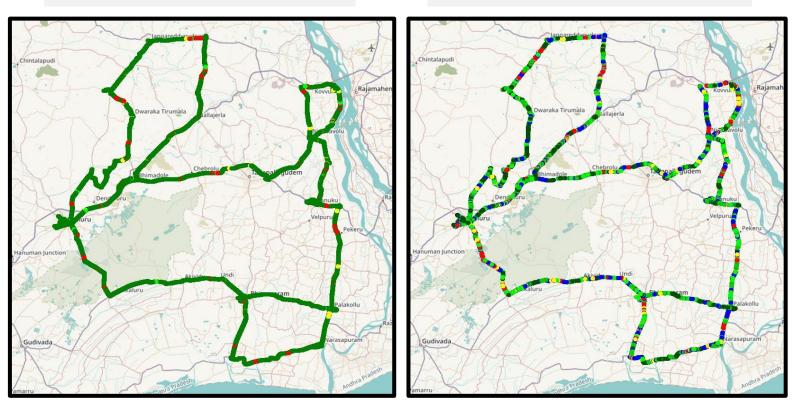
OIL	
Technology	Rx Quality %
VoLTE	97.99



Overall SINR	# Samples	%
(Min, <=-3)	541	0.55
(-3, <=0)	1447	1.46
(0, <=5)	17603	17.79
(5, <=10)	35892	36.28
(10, <=15)	21028	21.26
(15, <=Max)	22415	22.66
Total	98926	100

VIL	
Technology	Rx Quality %
2G	96.80
VoLTE	88.59

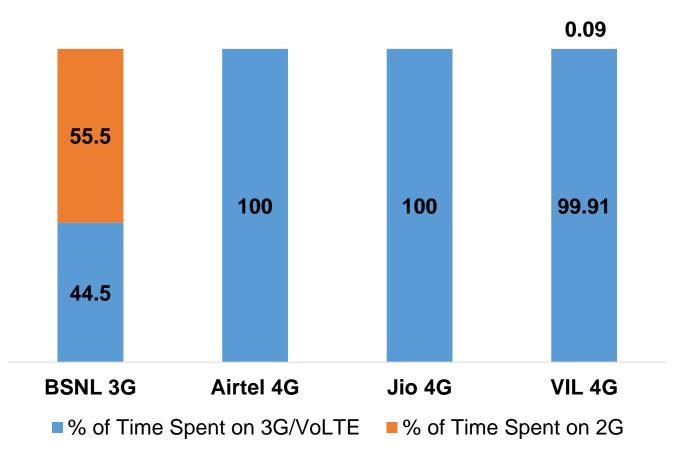
2G

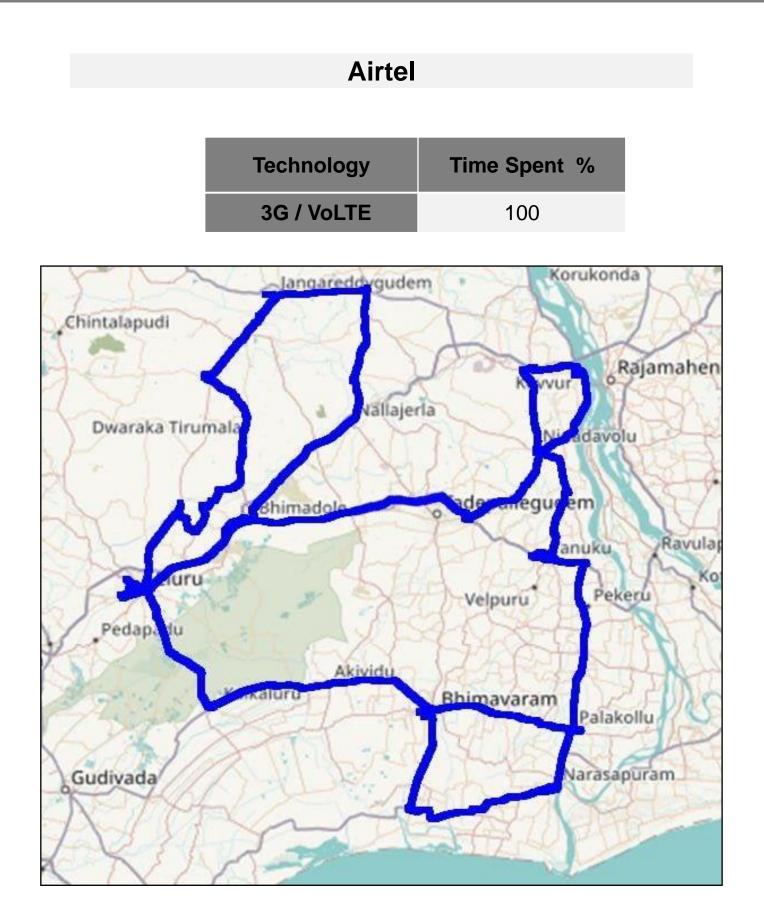


Overall Rx Quality	# Samples	%
(Min, <=2)	7271247	93.42
(2, <=3)	86668	1.11
(3 , <=4)	84902	1.09
(4 , <=5)	92120	1.18
(5 , <=Max)	248403	3.20
Total	7783340	100

Overall SINR	# Samples	%
(Min, <=-3)	839066	4.26
(-3, <=0)	1407195	7.15
(0, <=5)	3678536	18.68
(5, <=10)	4533377	23.02
(10, <=15)	3722737	18.91
(15, <=Max)	5509745	27.98
Total	19690656	100

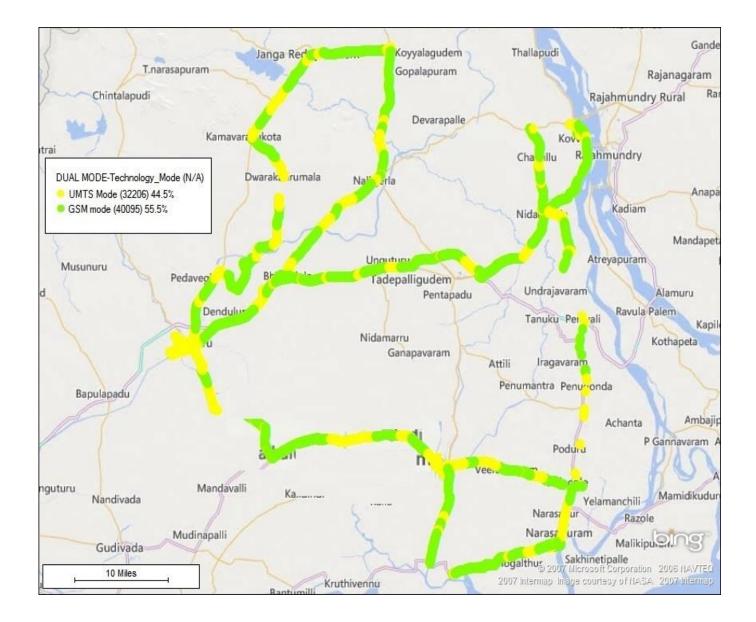
TSP	% of Time Spent on 3G/VoLTE
BSNL 3G	44.5
Airtel VoLTE	100
Jio VoLTE	100
VIL VoLTE	99.91



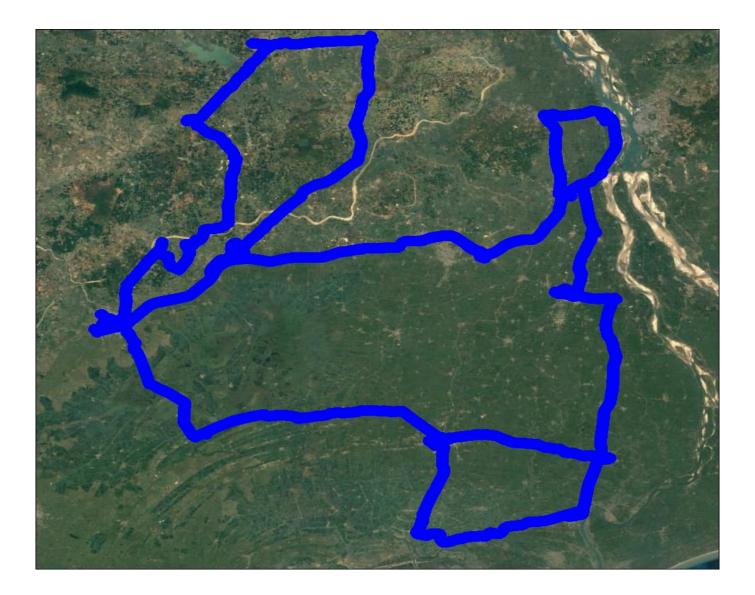


BSNL

Technology	Time Spent on 3G
3G	44.5

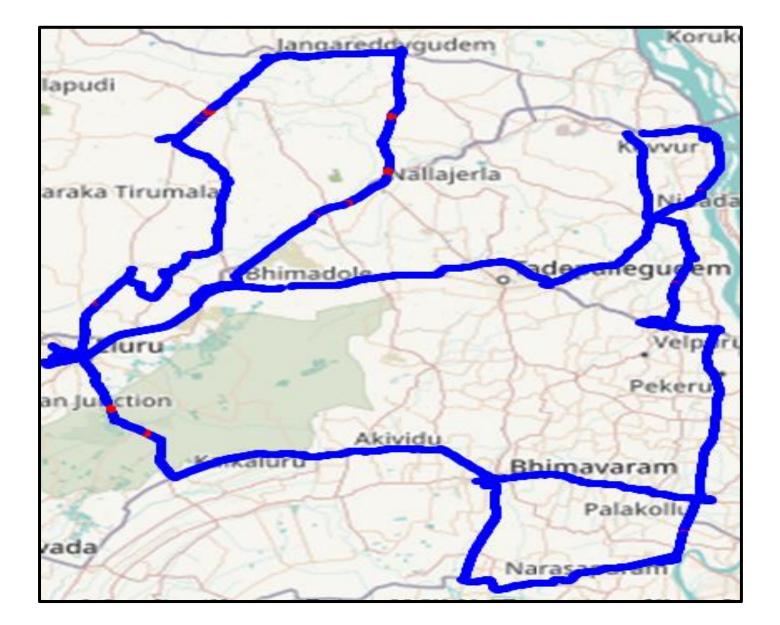


JIO		
Technology	Time Spent %	



III. Technology Details

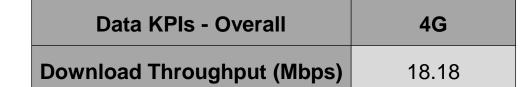
VIL		
Technology Time Spent %		
3G / VoLTE	99.91	

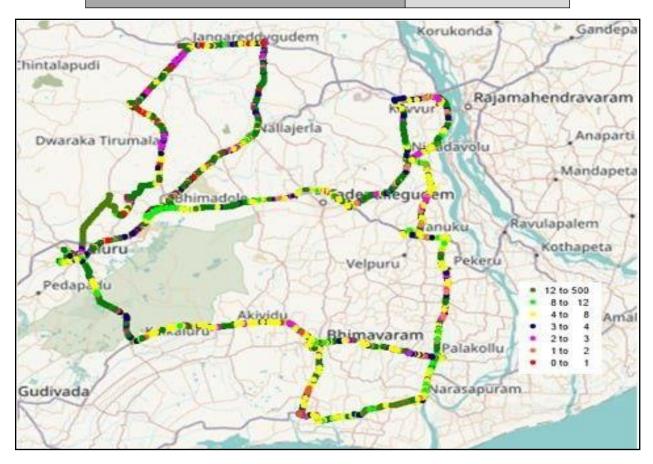


IV. Dynamic Data Test-3G / 4G DL Details

Airtel

Data Statistics - Dynamic Complete SSA





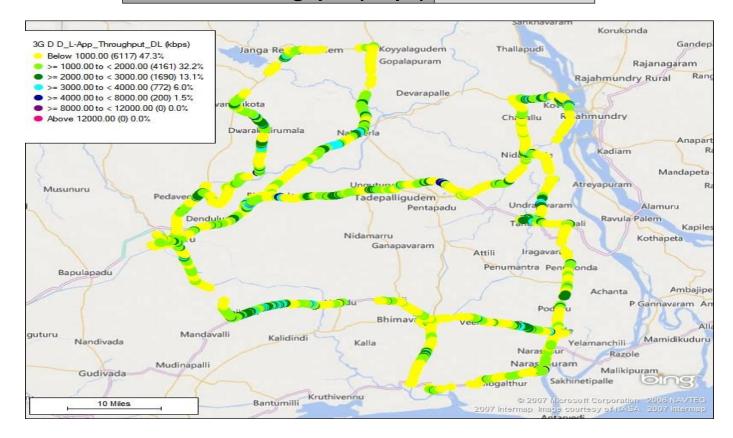
DL throughput	No of Sample	%
0 to 1 Mbps	2201184	14.1
1 to 2 Mbps	1020551	6.6
2 to 3 Mbps	1210082	7.8
3 to 4 Mbps	1201618	7.7
4 to 8 Mbps	5288340	34.0
8 to 12 Mbps	1628070	10.5
>12 Mbps	3009032	19.34
Total	15558877	

IV. Dynamic Data Test-3G DL Details

BSNL

Data Statistics - Dynamic Complete SSA 520Kms

Data KPIs - Overall	3G
Download Throughput (Mbps)	1.32



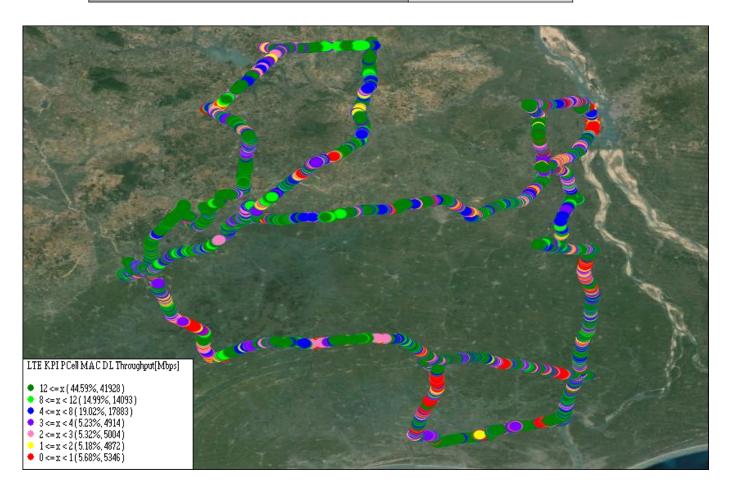
DL throughput	No of Samples	%
0 to 1 Mbps	6117	47.3
1 to 2 Mbps	4161	32.2
2 to 3 Mbps	1690	13.1
3 to 4 Mbps	772	6.0
4 to 8 Mbps	200	1.5
8 to 12 Mbps	0	0
>12 Mbps	0	0

IV. Dynamic Data Test-3G / 4G DL Details

JIO

Data Statistics - Dynamic Complete SSA

Data KPIs - Overall	3G / 4G
Download Throughput (Mbps)	15.17

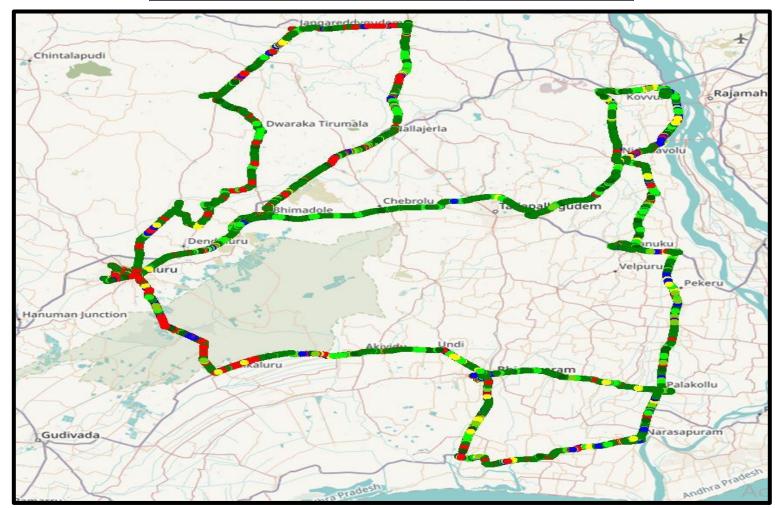


DL Throughput	No of Sample	%
0 to 1 Mbps	5346	5.68
1 to 2 Mbps	4872	5.18
2 to 3 Mbps	5004	5.32
3 to 4 Mbps	4914	5.23
4 to 8 Mbps	17883	19.02
8 to 12 Mbps	14093	14.99
>12 Mbps	41928	44.59

IV. Dynamic Data Test-3G / 4G DL Details

VIL

Data Statistics - Dynamic Complete SSAData KPIs - Overall3G / 4GDownload Throughput (Mbps)35.7



DL throughput	No of Sample	%
0 to 1 Mbps	1991720	7.3
1 to 2 Mbps	930716	3.4
2 to 3 Mbps	951611	3.5
3 to 4 Mbps	937174	3.4
4 to 8 Mbps	3445713	12.6
8 to 12 Mbps	2759930	10.1
>12 Mbps	16257130	59.6
Total	27273994	100

V. TRAI MySpeed App

Airtel

Technology 4G	1. Jangareddy Gudem Bus stand	2. Bhimavaram Railway station	3. Bhimavaram Bus stand	4. Narsapur Railway station	5. Eluru Railway station	6. Eluru Govt Hospital
Download in Mbps	54.54	61.69	40.84	57.52	95.44	60.44
Upload in Mbps	8.44	14.18	14.40	8.86	19.32	19.89

BSNL

Technology 3G/4G	1. Jangareddy Gudem Bus stand	2. Bhimavaram Railway station	3. Bhimavaram Bus stand	4. Narsapur Railway station	5. Eluru Railway station	6. Eluru Govt Hospital
Download in Mbps	2.80	2.28	5.55	8.06	3.62	3.13
Upload in Mbps	1.65	1.54	1.33	2.47	1.58	1.42

JIO

Technology 4G	1. Jangareddy Gudem Bus stand	2. Bhimavaram Railway station	3. Bhimavaram Bus stand	4. Narsapur Railway station	5. Eluru Railway station	6. Eluru Govt Hospital
Download in Mbps	57.06	71.9	46.68	70.96	68.43	64.06
Upload in Mbps	9.66	6.23	16.13	23.38	7.08	26.04

VIL

Technology 4G	1. Jangareddy Gudem Bus stand	2. Bhimavaram Railway station	3. Bhimavaram Bus stand	4. Narsapur Railway station	5. Eluru Railway station	6. Eluru Govt Hospital
Download in Mbps	33.00	31.24	39.21	36.84	43.64	43.58
Upload in Mbps	4.83	7.51	9.08	5.86	10.14	15.48

	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	ELURU to Jangareddygudem Via Dwaraka Tirumala		26	80				
2	JangareddyGudem to ELURU Via Nallajerla	16	24	90				
3	Bheemadole to Kovvur Via Tadepallygudem	216A	200,210,22	80				
4	Kovvur to Narsapur Via Tanuku	216	166,204,22,24	90				
5	Palakollu to Bheemavaram	165		35				
6	Bheemavaram to Narsapur Via Kalipatnam	216	302	50				
7	Bheemavaram to ELURU via Kaikaluru	165	258	85				