



## **Telecom Regulatory Authority of India**

### **The Indian Telecom Services Performance Indicators**

July – Sep, 2022

New Delhi, India

3<sup>rd</sup> February, 2023

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## Snapshot

(Data as on Q.E. 30<sup>th</sup> September, 2022)

<b>Telecom Subscribers (Wireless+Wireline)</b>	
Total Subscribers	1,171.92 Million
% change over the previous quarter	-0.09%
Urban Subscribers	651.61 Million
Rural Subscribers	520.30 Million
Market share of Private Operators	89.61%
Market share of PSU Operators	10.39%
Tele-density	84.86%
Urban Tele-density	134.62%
Rural Tele-density	58.01%
<b>Wireless Subscribers</b>	
Total Wireless Subscribers	1,145.45 Million
% change over the previous quarter	-0.17%
Urban Subscribers	627.14 Million
Rural Subscribers	518.31 Million
Market share of Private Operators	90.21%
Market share of PSU Operators	9.79%
Tele-density	82.94%
Urban Tele-density	129.56%
Rural Tele-density	57.79%
Total Wireless Data Usage during the quarter	40,126 PB
Number of Public Mobile Radio Trunk Services (PMRTS)	65,823
Number of Very Small Aperture Terminals (VSAT)	2,65,505
<b>Wireline Subscribers</b>	
Total Wireline Subscribers	26.47 Million
% change over the previous quarter	3.54%
Urban Subscribers	24.48 Million
Rural Subscribers	1.99 Million
Market share of PSU Operators	36.59%
Market share of Private Operators	63.41%
Tele-density	1.92%
Rural Tele-density	0.22%
Urban Tele-density	5.06%
No. of Village Public Telephones (VPT)	68,606
No. of Public Call Office (PCO)	57,125

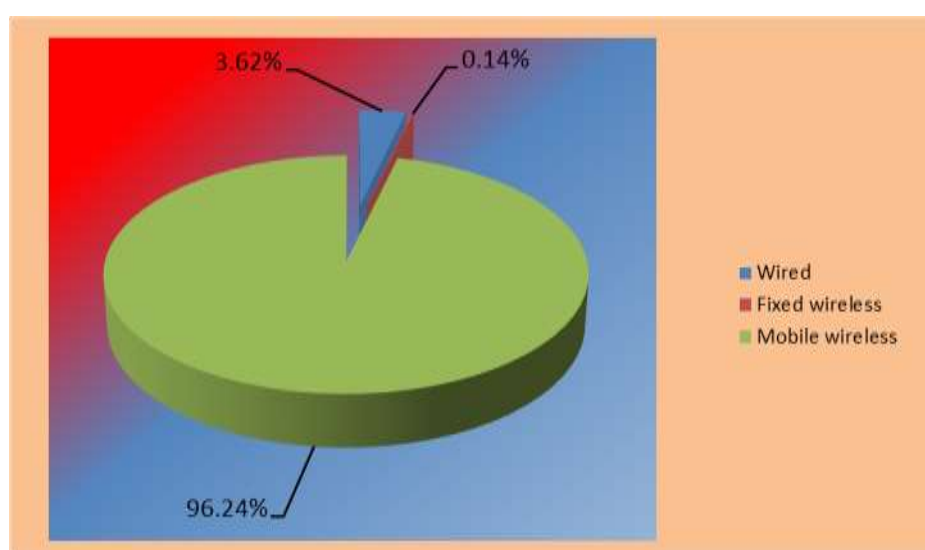
<b>Telecom Financial Data</b>	
Gross Revenue (GR) during the quarter	Rs.83,767 Crore
% change in GR over the previous quarter	9.63%
Applicable Gross Revenue (ApGR) during quarter	Rs. 74,713 Crore
% change in ApGR over the previous quarter	1.24%
Adjusted Gross Revenue (AGR) during the quarter	Rs.61,981 Crore
% change in AGR over the previous quarter	2.40%
Share of Public sector undertakings in Access AGR	4.23%
<b>Internet/Broadband Subscribers</b>	
Total Internet Subscribers	850.95 Million
% change over previous quarter	1.68%
Narrowband subscribers	35.01 Million
Broadband subscribers	815.93 Million
Wired Internet Subscribers	30.82 Million
Wireless Internet Subscribers	820.13 Million
Urban Internet Subscribers	507.13 Million
Rural Internet Subscribers	343.82 Million
Total Internet Subscribers per 100 population	61.62
Urban Internet Subscribers per 100 population	104.77
Rural Internet Subscribers per 100 population	38.33
No. of Public Wi-Fi Hotspots	1,76,989
Aggregate Data Consumed (GB)	1,66,21,376
<b>Broadcasting &amp; Cable Services</b>	
Number of private satellite TV channels permitted by the Ministry of I&B for uplinking only/downlinking only/both uplinking and downlinking	885
Number of Pay TV Channels as reported by broadcasters	353
Number of private FM Radio Stations (excluding All India Radio)	388
Number of total active subscribers with pay DTH operators	65.58 Million
Number of Operational Community Radio Stations	374
Number of pay DTH Operators	4
<b>Revenue &amp; Usage Parameters</b>	
Monthly ARPU of Wireless Service	Rs.137.31
Minutes of Usage (MOU) per subscriber per month - Wireless Service	894 Minutes
Total Outgoing Minutes of Usage for Internet Telephony	91.36 Million
<b>Wireless Data Usage</b>	
Average Wireless Data Usage per wireless data subscriber per month	17.18 GB
Average revenue realization per GB for wireless data usage during the quarter	Rs.9.94

\* For ARPU explanation please refer to footnote on Page 52

## Executive Summary

1. Total number of Internet<sup>1</sup> subscribers increased from 836.86 million at the end of Jun-22 to 850.95 million at the end of Sep-22, registering a quarterly growth rate of 1.68%. Out of 850.95 million internet subscribers, number of Wired Internet subscribers are 30.82 million and number of Wireless Internet subscribers are 820.13 million.

### Composition of internet subscription



2. The Internet subscriber base is comprised of Broadband<sup>2</sup> Internet subscriber base of 815.93 million and Narrowband<sup>3</sup> Internet subscriber base of 35.01 million.
3. The broadband Internet subscriber base increased by 1.87% from 800.94 million at the end of Jun-22 to 815.93 million at the end of Sep-22. The narrowband Internet subscriber base declined by 2.52% from 35.92 million at the end of Jun-22 to 35.01 million at the end of Sep-22.

<sup>1</sup> Internet: Interconnected global networks that use the internet protocol.

<sup>2</sup> Broadband: Internet access with a minimum capacity of greater or equal 512 Kbit/s in one or both directions.

<sup>3</sup> Narrowband: Internet access with a capacity of less than 512 Kbit/s in one or both directions.

(Source-ITU)

4. Wireline subscribers increased from 25.57 million at the end of Jun-22 to 26.47 million at the end of Sep-22 with a quarterly growth rate of 3.54% and, on Y-O-Y basis, wireline subscriptions also increased by 14.43% at the end of QE Sep-22.
5. Wireline Tele-density increased from 1.86% at the end of Jun-22 to 1.92% at the end of Sep-22 with quarterly growth rate of 3.31%.
6. Monthly Average Revenue per User (ARPU)<sup>4</sup> for wireless service increased by 2.81%, from Rs.133.55 in QE Jun-22 to Rs.137.31 in QE Sep-22. On Y-O-Y basis, monthly ARPU for wireless service increased by 26.96% in this quarter.
7. Prepaid ARPU per month increased from Rs.128.61 in QE Jun-22 to Rs.132.91 in QE Sep-22, however, Postpaid ARPU per month decreased from Rs.197.55 in QE Jun-22 to Rs.192.50 in QE Sep-22.
8. On an all-India average, the overall MOU per subscriber per month decreased by 2.14% from 914 in Q.E. June- 2022 to 894 in Q.E. Sep- 2022.
9. Prepaid MOU per subscriber per month decreased from 936 in QE Jun-22 to 920 in QE Sep-22. Postpaid MOU per subscriber per month also decreased from 621 in QE Jun-22 to 567 in QE Sep-22.

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<sup>4</sup> ARPU per month is calculated by dividing net subscribers' revenue by average number of subscribers.

10. Gross Revenue<sup>5</sup> (GR), Applicable Gross Revenue (ApGR) and Adjusted Gross Revenue<sup>6</sup> (AGR) of Telecom Service Sector for the Q.E. Sep-22 has been Rs.83,767/- Crore, Rs.74,713 crore and Rs.61,981/- Crore respectively. GR increased by 9.63%, ApGR increased by 1.24% and AGR increased by 2.40% in Q.E. Sep-22, as compared to previous quarter.
11. The Y-O-Y growth in GR and AGR in Q.E. Sep-22 over the same quarter in last year has been 24.47% and 15.83% respectively.
12. Pass-through charges increased from Rs.13,415 Crore in QE Jun-22 to Rs.13,445 Crore in QE Sep-22 with quarterly growth rate of 0.22%. The Y-O-Y decline rate of 2.50% has been recorded in pass-through charges for QE Sep-22.
13. The License Fee<sup>7</sup> increased from Rs.4,844 Crore for the QE Jun-22 to Rs.4,921 Crore for the QE Sep-22. The quarterly and the Y-O-Y growth rates of license fee are 1.60% and 15.23% respectively in this quarter.

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<sup>5</sup> Gross Revenue is inclusive of installation charges, late fees, sale proceeds of handsets (or any other terminal equipment etc.), revenue on account of interest, dividend, value added services, supplementary services, access or interconnection charges, roaming charges, revenue from permissible sharing of infrastructure and any other miscellaneous revenue, without any set-off for related item of expense etc.

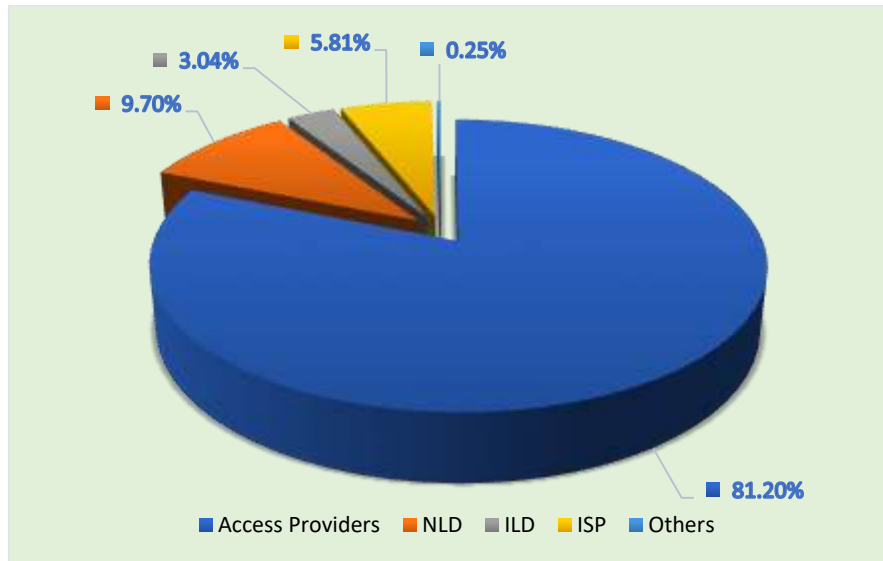
<sup>6</sup> Adjusted Gross Revenue: The following shall be excluded from the Gross Revenue to arrive at the AGR:

- I. PSTN related call charges (Access Charges) actually paid to other eligible/entitled telecommunication service providers within India;
- II. Roaming revenues actually passed on to other eligible/entitled telecommunication service providers; and
- III. Service Tax on provision of service and Sales Tax actually paid to the Government if gross revenue had included as component of Sales Tax and Service Tax

<sup>7</sup> License Fee means a fee payable by Licensee at prescribed intervals and rates for the period of the Licence.



## Service-wise composition of Adjusted Gross Revenue

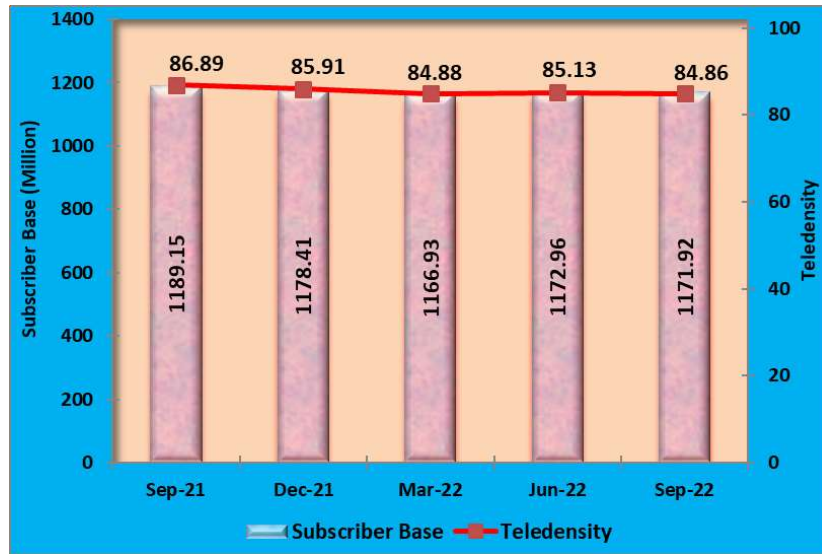


14. Access services contributed 81.20% of the total Adjusted Gross Revenue of telecom services. In Access services, Gross Revenue (GR), Applicable Gross Revenue (ApGR), Adjusted Gross Revenue (AGR), License Fee, Spectrum Usage Charges (SUC)<sup>8</sup> and Pass Through Charges increased by 12.34%, 2.51%, 2.71%, 2.71%, -29.92% and 2.03% respectively in QE Sep-22.
  
15. The number of telephone subscribers in India decreased from 1,172.96 million at the end of Jun-22 to 1,171.92 million at the end of Sep-22, registering a decline rate of 0.09% over the previous quarter. This reflects Year-On-Year (Y-O-Y) decline rate of 1.45% over the same quarter of the last year. The overall Tele-density in India also decreased from 85.13% as in QE Jun-22 to 84.86% as in QE Sep-22.

<sup>8</sup> Spectrum Usage Charge is payable by the licensees providing mobile access services, as a percentage of their Adjusted Gross Revenue (AGR).

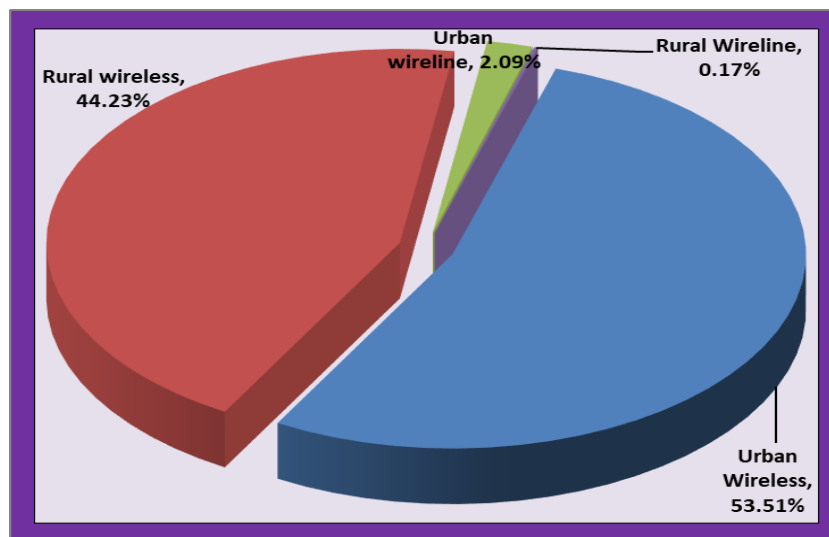
(Source – DoT License Agreement)

## Trends in Telephone subscribers and Tele-density in India



16. Telephone subscribers in Urban areas increased from 649.09 million at the end of Jun-22 to 651.61 million at the end of Sep-22 however, Urban Tele-density decreased from 134.72% to 134.62% during the same period.
17. Rural telephone subscribers decreased from 523.27 million at the end of Jun-22 to 520.30 million at the end of Sep-22 and Rural Tele-density also decreased from 58.46% to 58.01% during the same period.
18. Out of the total subscription, the share of Rural subscription decreased from 44.66% at the end of Jun-22 to 44.40% at the end of Sep-22.

### Composition of Telephone Subscribers



19. With a net decrease of 1.94 million subscribers during the quarter, the total wireless subscriber base decreased from 1,147.39 million at the end of Jun-22 to 1,145.45 million at the end of Sep-22, registering a decline rate of 0.17% over the previous quarter. On Y-O-Y basis, wireless subscriptions decreased at the rate of 1.76% during the year.
  
20. Wireless Tele-density decreased from 83.27% at the end of Jun-22 to 82.94% at the end of Sep-22 with quarterly decline rate of 0.39%.
  
21. During this quarter, the following parameters in terms of QoS benchmarks have been met by wireline service providers: -
  - i. Fault incidences no. of faults per 100 subs/month)  $\leq 7$
  - ii. Point of Interconnection (POI) Congestion (No. of PoIs not meeting benchmark)  $\leq 0.5\%$
  - iii. Metering and Billing credibility - post-paid  $\leq 0.1\%$
  - iv. Metering and Billing credibility -pre-paid  $\leq 0.1\%$
  - v. Resolution of billing/charging /Credit & validity complaints - 98% within 4 weeks
  - vi. Resolution of billing/charging /Credit & validity complaints - 100% within 6 weeks
  - vii. Period of applying credit /waiver/adjustment to customer's - 1 week of resolution of complaint
  
22. The following parameters have shown improvement in QoS by wireline service providers: -
  - ❖ % Mean time to Repair” (MTTR)  $\leq 10\text{Hs}$
  
23. The following parameters have shown deterioration in QoS by wireline service providers: -

- ❖ % Fault repaired by next working day (for rural and hilly areas)  $\geq 75\%$
- ❖ % Fault repaired within 7 days (for rural and hilly areas)  $\geq 100\%$
- ❖ Accessibility of call centre/ customer care  $\geq 95\%$
- ❖ %age of calls answered by the operators (voice to voice) within ninety seconds  $\geq 95\%$

24. During this quarter, the following parameters in terms of QoS benchmarks have been met by Cellular Mobile service providers: -

<b>S.N.</b>	<b>Parameter</b>	<b>Benchmark</b>
<b>I.</b>	<b>Network Related Parameters</b>	
<b>1</b>	<b>Network Availability</b>	
(i)	BS Accumulated down-time (not available for service) (%age)	$\leq 2\%$
(ii)	Worst affected BSs due to down-time (%age)	$\leq 2\%$
<b>2</b>	<b>Connection Establishment (Accessibility)</b>	
(i)	Call Set-up Success Rate and Session Establishment Success Rate for Circuit Switched Voice or VoLTE as applicable (within licensee's own network)	$\geq 95\%$
(ii)	SDCCH/ Paging Channel Congestion/ RRC Congestion (% age)	$\leq 1\%$
(iii)	TCH, RAB and E-RAB congestion (%age)	$\leq 2\%$
<b>3</b>	<b>Connection Maintenance (Retain ability)</b>	
(i)	Network QoS DCR Spatial Distribution Measure [Network_ QSD (90,90)]	$\leq 2\%$
(ii)	Network QoS DCR Temporal Distribution Measure [Network_ QTD (97,90)]	$\leq 3\%$
<b>4</b>	<b>Connections with good voice quality, Circuit Switched Voice Quality and VoLTE quality</b>	$\geq 95\%$
<b>5</b>	<b>Point of Interconnection (POI) Congestion (No. of POIs not meeting the benchmark) (Averaged over a period of quarter)</b>	$\leq 0.5\%$
<b>6</b>	<b>Down Link (DL) Packet Drop Rate or DL-PDR</b>	$\leq 2\%$
<b>7</b>	<b>Up Link (UL) Packet Drop Rate or UL-PDR</b>	$\leq 2\%$
<b>II.</b>	<b>Customer Service Quality Parameters</b>	
<b>8</b>	<b>Metering and Billing</b>	
(i)	Metering and billing credibility - post paid	$\leq 0.1\%$
(ii)	Metering and billing credibility -	$\leq 0.1\%$

	prepaid	
(iii)	Resolution of billing/charging/validity complaints	98% within 4 weeks
	Resolution of billing/charging/validity complaints	100% within 6 weeks
(iv)	Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution of complaints	within 1 week of resolution of complaint
9	Termination/closure of service	
(i)	Termination/closure of service	≤ 7 days
(ii)	Time taken for refund of deposits after closures	100% within 60 days

25. The following parameters have shown improvement in QoS by Cellular Mobile service providers:

- ❖ Accessibility of call centre/ customer care ≥ 95%

26. The following parameters have shown deterioration in QoS by Cellular Mobile service providers:

- ❖ %age of calls answered by the operators (voice to voice) within 90 Seconds

27. A total of approximately 885 private satellite TV channels have been permitted by the Ministry of Information and Broadcasting (MIB) for uplinking only/downlinking only/both uplinking & downlinking.

28. As per the reporting done by broadcasters in pursuance of the Tariff Order dated 3<sup>rd</sup> March 2017 as amended, out of 872 permitted satellite TV channels which are available for downlinking in India, there are 353 satellite pay TV channels as on 30<sup>th</sup> September 2022. Out of 353 pay channels, 254 are SD satellite pay TV channels and 99 are HD satellite pay TV channels.

29. Since the introduction of DTH Sector in the year 2003, Indian DTH (direct-to-home) services have displayed a phenomenal growth. During the QE 30<sup>th</sup> September 2022, there were 4 pay DTH service providers in the country.
30. Pay DTH has attained total active subscriber base of around 65.58 million in QE 30<sup>th</sup> September 2022. This is in addition to the subscribers of the DD Free Dish (free DTH services of Doordarshan).
31. Apart from the radio channels operated by All India Radio – the public broadcaster, as per the data reported by FM Radio operators to TRAI, as on 30<sup>th</sup> September 2022, there are 388 operational private FM Radio channels in 113 cities operated by 36 private FM Radio operators.
32. The advertisement revenue reported by FM Radio operators during the quarter ending 30<sup>th</sup> September 2022 in respect of 388 private FM Radio channels is Rs.385.86 crore as against Rs.345.12 crore in respect of 388 private FM Radio channels for the previous quarter i.e. 30<sup>th</sup> June 2022.
33. As on 30<sup>th</sup> September 2022, 374 Community Radio stations are operational.

## Trends at a Glance

<b>A. Access Service (Wireline + Wireless)</b>									
	QE Sep 2021	QE Dec 2021	QE Mar 2022	QE Jun 2022	QE Sep 2022	%age change over Sep-2021	%age change over Dec-2021	%age change over Mar-2022	%age change over Jun-2022
						(12 months)	(9 months)	(6 months)	(3 months)
<b>1) Subscriber Base (in million)</b>									
Wireline	23.13	23.79	24.84	25.57	26.47	14.43%	11.28%	6.56%	3.54%
Wireless	1166.02	1154.62	1142.09	1147.39	1145.45	-1.76%	-0.79%	0.29%	-0.17%
<b>Total</b>	<b>1189.15</b>	<b>1178.41</b>	<b>1166.93</b>	<b>1172.96</b>	<b>1171.92</b>	<b>-1.45%</b>	<b>-0.55%</b>	<b>0.43%</b>	<b>-0.09%</b>
Rural	530.06	523.21	519.82	523.87	520.30	-1.84%	-0.55%	0.09%	-0.68%
Urban	659.09	655.20	647.11	649.09	651.61	-1.13%	-0.55%	0.70%	0.39%
<b>2) Tele-density</b>									
Wireline	1.69	1.73	1.81	1.86	1.92	13.40%	10.52%	6.08%	3.31%
Wireless	85.20	84.17	83.07	83.27	82.94	-2.65%	-1.46%	-0.16%	-0.39%
<b>Total</b>	<b>86.89</b>	<b>85.91</b>	<b>84.88</b>	<b>85.13</b>	<b>84.86</b>	<b>-2.34%</b>	<b>-1.22%</b>	<b>-0.02%</b>	<b>-0.31%</b>
Rural	59.33	58.50	58.07	58.46	58.01	-2.22%	-0.84%	-0.10%	-0.78%
Urban	138.72	137.26	134.94	134.72	134.62	-2.96%	-1.93%	-0.24%	-0.08%
<b>3) Service Provider wise Subscribers Base (in Million) (wireless+wireline)</b>									
Bharti Airtel	359.77	361.35	366.18	369.00	370.62	3.02%	2.57%	1.21%	0.44%
Vodafone Idea	270.56	266.05	261.35	257.32	249.82	-7.66%	-6.10%	-4.41%	-2.91%
Reliance Jio	429.48	421.05	410.17	419.99	427.62	-0.43%	1.56%	4.25%	1.82%
BSNL	121.28	121.95	121.25	118.73	116.45	-3.98%	-4.51%	-3.96%	-1.91%
MTNL	6.07	6.01	5.94	5.87	5.35	-11.84%	-10.93%	-9.88%	-8.80%
Tata Tele.	1.60	1.60	1.60	1.59	1.58	-1.05%	-1.15%	-1.36%	-0.46%
Reliance Com.	0.20	0.19	0.18	0.17	0.16	-18.05%	-13.54%	-9.32%	-6.77%
Quadrant	0.20	0.21	0.27	0.30	0.30	51.61%	42.42%	13.03%	1.05%
<b>Total</b>	<b>1189.15</b>	<b>1178.41</b>	<b>1166.93</b>	<b>1172.96</b>	<b>1171.92</b>	<b>-1.45%</b>	<b>-0.55%</b>	<b>0.43%</b>	<b>-0.09%</b>

<b>B. Internet Services</b>									
	QE Sep 2021	QE Dec 2021	QE Mar 2022	QE Jun 2022	QE Sep 2022	%age change over Sep-2021 (12 months)	%age change over Dec-2021 (9 months)	%age change over Mar-2022 (6 months)	%age change over Jun-2022 (3 months)
<b>1) Subscriber's Base (in million)</b>									
<b>A. Wired Internet Subscribers</b>	24.47	26.58	27.27	28.73	30.82	25.95%	15.95%	12.99%	7.27%
<b>B. Wireless Internet Subscribers</b>	809.82	802.72	797.61	808.13	820.13	1.27%	2.17%	2.82%	1.48%
i. Mobile Wireless (Mobile & Dongle)	808.54	801.58	796.43	807.02	818.98	1.29%	2.17%	2.83%	1.48%
ii. Fixed Wireless (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	1.28	1.14	1.18	1.11	1.16	-9.74%	1.03%	-2.26%	4.19%
<b>Total Internet Subscribers</b>	<b>834.29</b>	<b>829.30</b>	<b>824.89</b>	<b>836.86</b>	<b>850.95</b>	<b>2.00%</b>	<b>2.61%</b>	<b>3.16%</b>	<b>1.68%</b>
<b>2) No. of Internet Subs per 100 Population</b>	60.96	60.46	60.00	60.73	61.62	1.08%	1.92%	2.70%	1.45%
<b>C. Usage and Revenue for Wireless Services</b>									
Traffic (MOU) (minutes of uses/subscriber/month)	827	854	955	914	894	8.11%	4.63%	-6.43%	-2.14%
ARPU (Rs./sub/month)	108.16	114.16	127.17	133.55	137.31	26.96%	20.28%	7.97%	2.81%
<b>D. Telecom Financial Data</b>									
	QE Sep 2021	QE Dec 2021	QE Mar 2022	QE Jun 2022	QE Sep 2022	%age change over Sep-2021 (12 months)	%age change over Dec-2021 (9 months)	%age change over Mar-2022 (6 months)	%age change over Jun-2022 (3 months)
<b>1. Telecom Sector</b>									
i) Gross Revenue (Rs.in Crores)	67300	69695	76420	76408	83767	24.47%	20.19%	9.61%	9.63%
ii) Adjusted Gross Revenue (Rs. in Crores)	53510	55151	58886	60530	61981	15.83%	12.38%	5.26%	2.40%
<b>2. Access Services</b>									
Adjusted Gross Revenue (Rs. in Crores)	42422	42930	46421	48999	50327	18.64%	17.23%	8.41%	2.71%

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## **Introduction**

This Report presents the Key Parameters and growth trends for the Telecom Services in India for the quarter ending 30<sup>th</sup> September, 2022. It provides a broad perspective on the Telecom Services to serve as a reference document for various stakeholders, research agencies and analysts. Chapter-1 depicts the growth pattern, in terms of Subscriber base and Tele-density of Wireline, Wireless, Internet and Value Added Services (VAS) as well as Wireless Data Usage. Chapter-2 covers the key revenue and usage parameters. Chapter-3 gives the financial and accounting data. Chapter-4 covers performance of various telecom service providers in terms of QoS. The information relating to Cable TV, DTH & Radio Broadcast services is provided in Chapter-5.

2. The Report has been prepared based on the information furnished by the Service Providers. It is also available on TRAI's website ([www.trai.gov.in](http://www.trai.gov.in) and under the link <http://www.trai.gov.in/release-publication/reports/performance-indicators-reports>). Any suggestion or any clarification pertaining to this report, Advisor (F&EA), TRAI may be contacted on Tel. +91-23234367 and e-mail: [advfea2@traigov.in](mailto:advfea2@traigov.in).

# Chapter 1 :

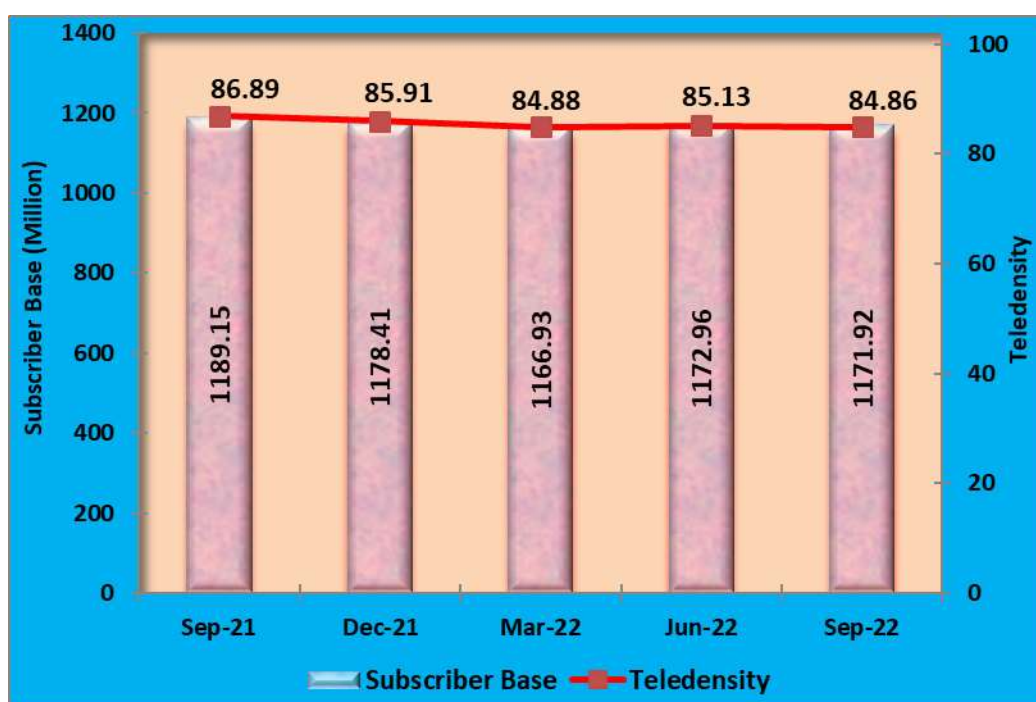
# Subscription Data

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- In this report, Tele-density figures are derived from the subscriber data provided by the operators and projection of population from the 'Report of the Technical Group on Population Projections for India and States 2011–2036', which is available under the link [https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload\\_compressed\\_0.pdf](https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf)

## Section A : Access Service - An Overview

- 1.1 The number of telephone subscribers in India decreased from 1,172.96 million at the end of June-22 to 1,171.92 million at the end of Sep-22, registering a decline rate of 0.09% over the previous quarter. This reflects year-on-year (Y-O-Y) decline rate of 1.45% over the same quarter of last year. The overall Tele-density in India decreased from 85.13% as on 30<sup>th</sup> June, 2022 to 84.86% as on 30<sup>th</sup> September, 2022 with quarterly decline rate of 0.31%.

**Chart 1.1: Trends in Telephone Subscribers and Tele-density in India**

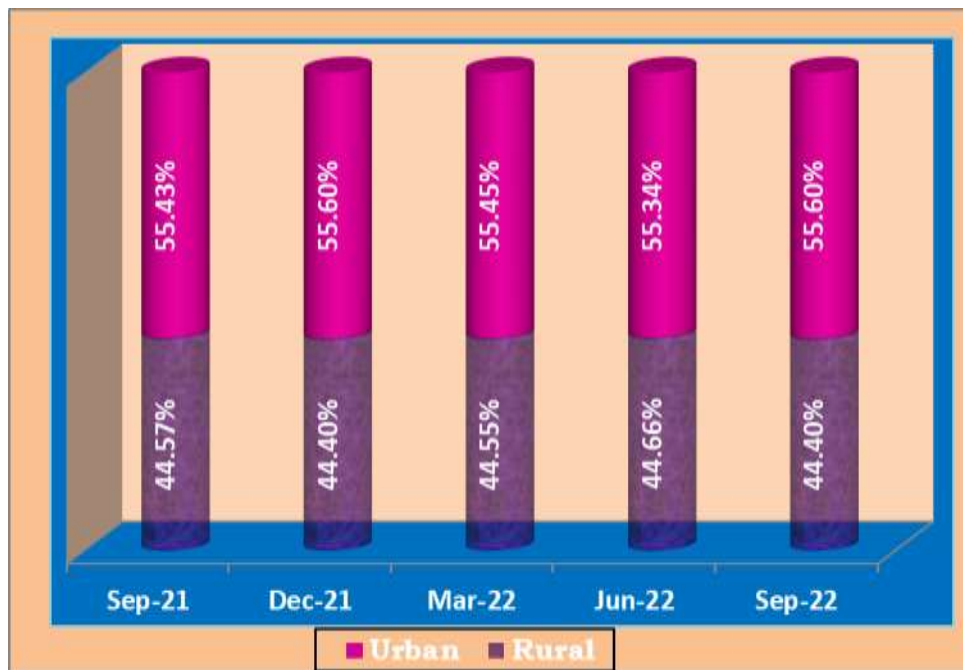


**Table 1.1: Subscriber Base & Tele-density - Rural & Urban**

Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
Sep-21	530.06	659.09	59.33	138.72
Dec-21	523.21	655.20	58.50	137.26
Mar-22	519.82	647.11	58.07	134.94
Jun-22	523.87	649.09	58.46	134.72
Sep-22	520.30	651.61	58.01	134.62

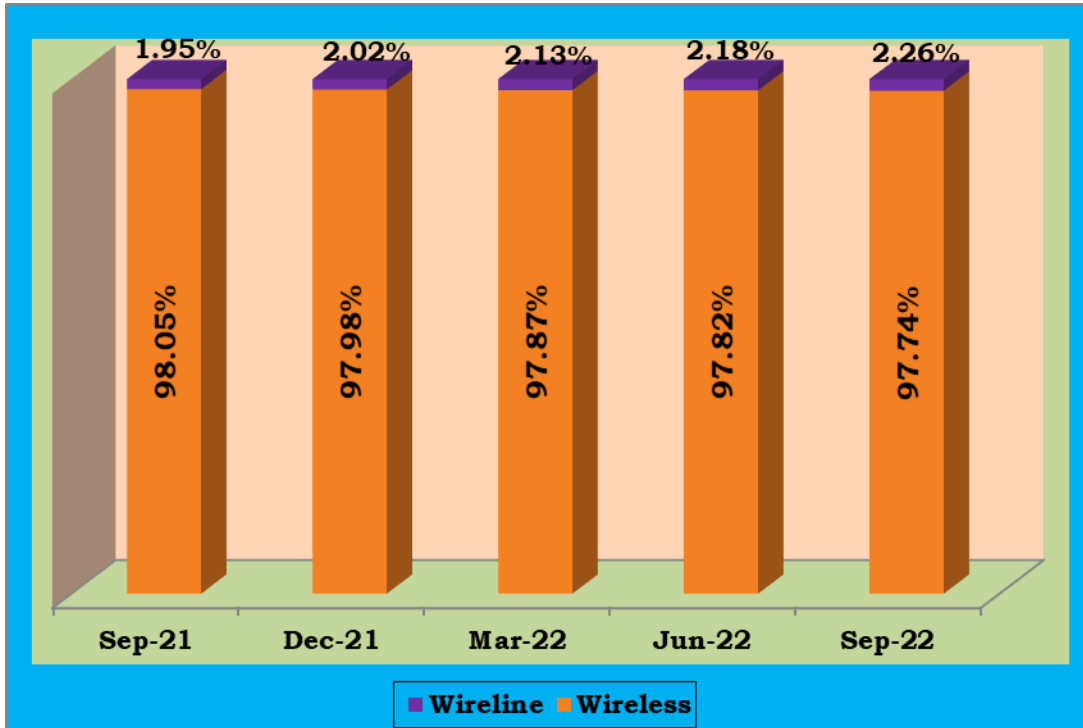
- 1.2 Telephone subscription in Urban areas increased from 649.09 million at the end of Jun-22 to 651.61 million at the end of Sep-22 however, Urban Tele-density decreased from 134.72% to 134.62% at the end of the quarter.
- 1.3 Rural telephone subscription decreased from 523.87 million at the end of June-22 to 520.30 million at the end of Sep-22 and Rural Tele-density also decreased from 58.46% to 58.01% at the end of the quarter.
- 1.4 The Y-O-Y decline rates of Urban and Rural telephone subscriptions from Sep-21 to Sep-22 are 1.13% and 1.84% respectively. The Y-O-Y decline rates of Urban and Rural Tele-density from Sep-21 to Sep-22 are 2.96% and 2.22% respectively.

**Chart 1.2: Market Share - Rural & Urban Subscribers**



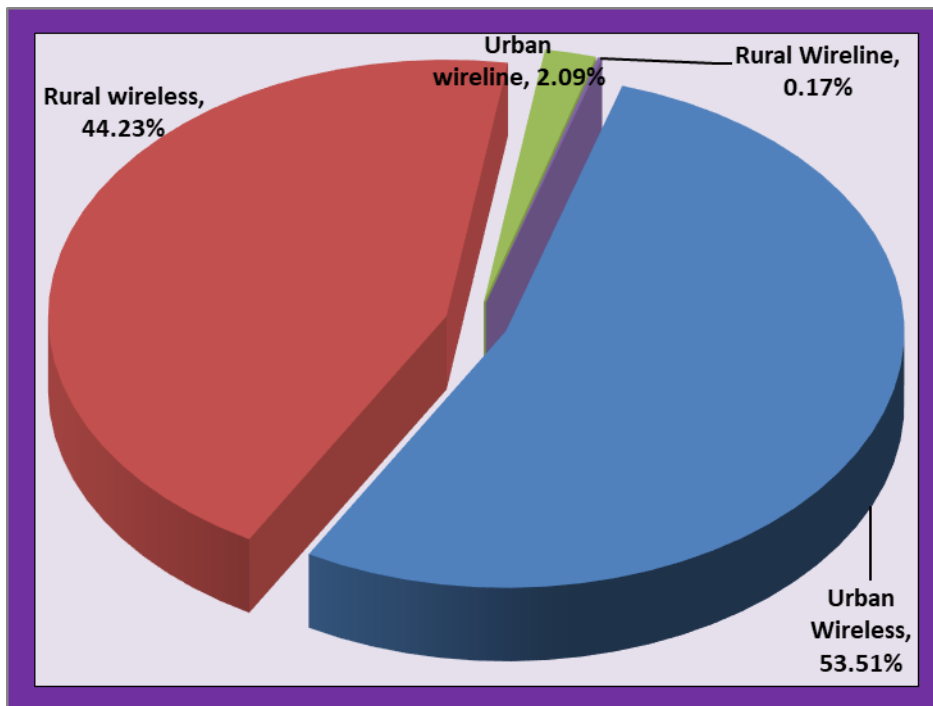
- 1.5 Share of subscriptions of rural areas in the total telephone subscriptions decreased from 44.66% at the end of Jun-22 to 44.40% at the end of Sep-22.

**Chart 1.3: Composition of Access subscription - Wireline & Wireless**



1.6 Share of wireline subscription in total telephone subscription increased from 2.18% at the end of Jun-22 to 2.26% at the end of Sep-22.

**Chart 1.4: Composition of Rural-Urban Telephone Subscription at the end of the quarter**



**Table 1.2: Service Area wise Access (Wireless+Wireline) Subscriber base**

Service Area	Subscribers (million)			
	Jun-22	Sep-22	Net Additions	Rate of Growth
Andhra Pradesh	85.30	84.89	-0.41	-0.48%
Assam	24.35	24.69	0.35	1.42%
Bihar	89.42	91.49	2.06	2.31%
Delhi	56.97	57.12	0.15	0.26%
Gujarat	68.47	67.70	-0.77	-1.12%
Haryana	27.48	27.14	-0.35	-1.26%
Himachal Pradesh	9.91	9.93	0.03	0.25%
Jammu & Kashmir	12.05	12.39	0.34	2.82%
Karnataka	67.99	68.67	0.68	1.00%
Kerala	44.20	44.02	-0.17	-0.39%
Madhya Pradesh	78.38	77.96	-0.42	-0.54%
Maharashtra	93.75	93.15	-0.60	-0.64%
Mumbai	37.38	37.05	-0.33	-0.88%
North East	12.15	12.32	0.17	1.40%
Odisha	33.15	33.43	0.28	0.84%
Punjab	37.36	36.86	-0.50	-1.33%
Rajasthan	63.87	64.11	0.24	0.38%
Tamil Nadu	81.36	80.42	-0.95	-1.16%
Uttar Pradesh(E)	102.33	101.42	-0.91	-0.89%
Uttar Pradesh(W)	65.12	64.90	-0.22	-0.34%
Kolkata	24.59	24.70	0.11	0.47%
West Bengal	57.39	57.56	0.18	0.31%
<b>All India</b>	<b>1,172.96</b>	<b>1,171.92</b>	<b>-1.04</b>	<b>-0.09%</b>

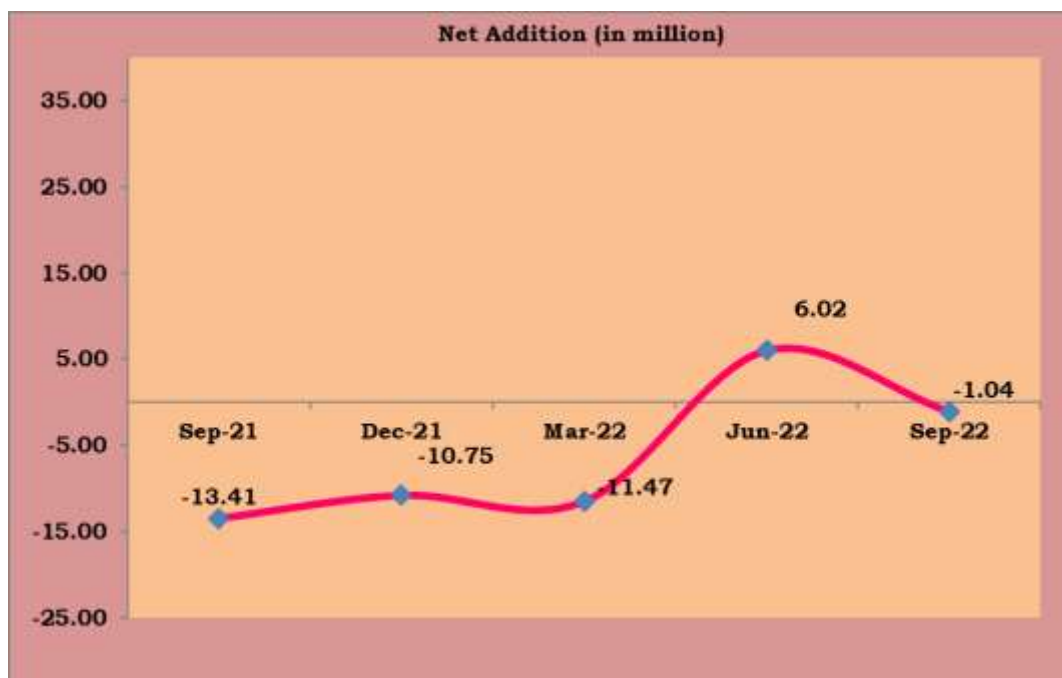
1.7 All service areas, except Andhra Pradesh, Gujarat, Haryana, Kerala, Madhya Pradesh, Maharashtra, Mumbai, Punjab, Tamil Nadu, Uttar Pradesh (E), and Uttar Pradesh (W) showed growth in their subscriber base during the quarter ending Sep-22. Jammu & Kashmir service area showed maximum growth of 2.82% during the quarter.

**Table 1.3: Service Area wise Rural-Urban Subscribers at QE Sep-22**

Service Area	Number of Subscribers (in million)			
	Total	Rural	Urban	% of Rural Subscribers
Andhra Pradesh	84.89	41.10	43.79	48.42%
Assam	24.69	15.45	9.24	62.58%
Bihar	91.49	60.23	31.26	65.83%
Delhi	57.12	1.78	55.34	3.12%
Gujarat	67.70	26.46	41.24	39.09%
Haryana	27.14	11.98	15.16	44.14%
Himachal Pradesh	9.93	6.51	3.43	65.49%
Jammu & Kashmir	12.39	5.96	6.43	48.12%
Karnataka	68.67	25.99	42.68	37.84%
Kerala	44.02	19.66	24.36	44.67%
Madhya Pradesh	77.96	34.72	43.24	44.54%
Maharashtra	93.15	42.41	50.74	45.53%
Mumbai	37.05	1.11	35.94	2.99%
North East	12.32	6.31	6.01	51.19%
Odisha	33.43	21.82	11.61	65.28%
Punjab	36.86	12.18	24.68	33.04%
Rajasthan	64.11	34.03	30.08	53.08%
Tamil Nadu	80.42	23.35	57.07	29.04%
U.P.(E)	101.42	61.88	39.54	61.01%
U.P.(W)	64.90	30.65	34.25	47.23%
Kolkata	24.70	1.57	23.13	6.35%
West Bengal	57.56	35.15	22.41	61.07%
<b>All India</b>	<b>1,171.92</b>	<b>520.30</b>	<b>651.61</b>	<b>44.40%</b>

1.8 Only eight service areas have more than 50% share of rural subscribers in their total number of subscribers. Bihar service area has maximum share of rural subscribers of 65.83% in its total telephone subscribers.

**Chart 1.5: Trend of Net Addition/decline in Telephone Subscription**



1.9 The net decrease in telephone subscription is 1.04 million during QE Sep-22 as compared to the net increase of 6.02 million during QE June-22.

**Table 1.4 : Service Area wise Tele-density**

Service Area/ States	As on 30 <sup>th</sup> June, 2022			As on 30 <sup>th</sup> September, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Andhra Pradesh	77.22	117.52	93.64	76.30	117.34	93.10
Assam	50.84	165.55	68.60	51.41	167.44	69.41
Bihar	42.44	118.92	54.31	43.15	121.74	55.36
Delhi	-	-	270.06	-	-	269.51
Gujarat	73.20	117.58	94.91	71.79	116.12	93.54
Haryana	69.35	122.95	91.71	68.54	120.49	90.28
Himachal Pradesh	96.97	448.35	133.13	97.33	446.65	133.30
J&K	60.29	148.46	87.07	61.82	152.31	89.36
Karnataka	70.20	139.73	100.85	68.99	142.99	101.70



Service Area/ States	As on 30 <sup>th</sup> June, 2022			As on 30 <sup>th</sup> September, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Kerala	211.52	92.66	123.63	215.31	91.39	123.02
Madhya Pradesh	42.46	131.20	67.66	41.76	130.85	67.10
Maharashtra (incl. Mumbai)*	67.88	140.25	103	66.57	139.41	102.08
North East	60.77	109.84	77.60	61.31	111.25	78.51
Orissa	60.53	137.66	74.99	60.75	139.51	75.56
Punjab	69.63	178.64	117.40	68.14	176.35	115.66
Rajasthan	58.18	138.17	79.39	57.44	140.43	79.48
Tamil Nadu	64.57	137.72	103.88	64.53	135.20	102.58
Uttar Pradesh (incl. UPE & UPW)*	50.83	121.64	68.16	49.77	122.19	67.53
West Bengal (incl. Kolkata)*	57.87	124.04	82.09	58.05	124.05	82.29
<b>All India</b>	<b>58.46</b>	<b>134.72</b>	<b>85.13</b>	<b>58.01</b>	<b>134.62</b>	<b>84.86</b>

\* Population data/projections are available state-wise only.

**Notes:-**

1. Tele-density figures are derived from the subscriber data provided by the operators and the population projections, for Urban and Rural areas, of the country are taken from projection of population from the 'Report of the Technical Group on Population Projections for India and States 2011 – 2036', which is available under the link [https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload\\_compressed\\_0.pdf](https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf)
2. Delhi Service area, apart from the State of Delhi, includes wireless subscribers of the areas served by the local exchanges of Ghaziabad & Noida (in UP) and Gurgaon & Faridabad (in Haryana).
3. Data/information for Andhra Pradesh includes Telengana, Madhya Pradesh includes Chhatishgarh, Bihar includes Jharkhand, Maharashtra includes Goa, Uttar Pradesh includes Uttarakhand, West Bengal includes Sikkim and North-East includes Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland & Tripura states.

1.10 Kerala service area has the highest Rural Tele-density of 215.31 followed by Himachal Pradesh service area of 97.33. Madhya Pradesh service area has the lowest Rural Tele-density of 41.76 followed by Bihar service area with rural tele-density of 43.15 in QE Sep-22.

**Table 1.5 : State/UT wise subscriber base (wireline+wireless)**

Sl. No.	States/UT	Total Telephone Subscription (million)		
		Total	Rural	Urban
1	Andhra Pradesh	43.92	24.24	19.68
2	Arunachal Pradesh	1.32	0.78	0.54
3	Assam	24.69	15.45	9.24
4	Bihar	67.91	47.34	20.57
5	Chhattisgarh	20.23	9.67	10.57
6	Goa	2.27	0.81	1.46
7	Gujarat	66.77	26.13	40.65
8	Haryana	33.24	12.03	21.21
9	Himachal Pradesh	9.93	6.51	3.43
10	Jharkhand	23.58	12.88	10.69
11	Karnataka	68.67	25.99	42.68
12	Kerala	43.95	19.64	24.30
13	Madhya Pradesh	57.73	25.05	32.67
14	Maharashtra Incl. Mumbai	127.93	42.71	85.22
15	Manipur	2.38	1.03	1.35
16	Meghalaya	2.51	1.48	1.03
17	Mizoram	1.40	0.62	0.78
18	Nagaland	1.60	0.91	0.69
19	Odisha	33.43	21.82	11.61
20	Punjab	34.99	12.14	22.85
21	Rajasthan	64.11	34.03	30.08
22	Sikkim	0.95	0.57	0.38
23	Tamil Nadu	79.27	23.01	56.26
24	Telangana	40.97	16.87	24.10
25	Tripura	3.12	1.49	1.63
26	Uttar Pradesh (UPE + UPW)	161.35	86.00	75.35
27	Uttarakhand	13.28	6.53	6.75
28	West Bengal Incl. Kolkata	80.76	35.94	44.81
<b>Union Territories</b>				
1	Andaman & Nicobar Islands	0.56	0.21	0.34
2	Chandigarh	1.87	0.04	1.83
3	Dadra and Nagar Haveli and Daman and Diu	0.93	0.34	0.59
4	Delhi	42.70	1.73	40.97
5	Jammu & Kashmir	11.85	5.67	6.18
6	Ladakh	0.54	0.29	0.25
7	Lakshdweep	0.07	0.02	0.06
8	Puduchery	1.15	0.34	0.80
<b>Total</b>		<b>1171.92</b>	<b>520.30</b>	<b>651.61</b>

**Table 1.6 : State/UT wise total Tele-density**

Sl.No.	State/UT	Total Tele-density (%)		
		Total	Rural	Urban
1	Andhra Pradesh	82.75	121.42	227.74
2	Arunachal Pradesh	84.92	67.70	135.19
3	Assam	69.41	51.41	167.44
4	Bihar	53.90	42.82	133.30
5	Chhattisgarh	67.36	44.08	130.36
6	Goa	144.62	208.73	123.67
7	Gujarat	93.85	71.34	117.73
8	Haryana	110.60	68.82	168.63
9	Himachal Pradesh	133.30	97.33	446.65
10	Jharkhand	60.05	44.41	104.34
11	Karnataka	101.70	68.99	142.99
12	Kerala	123.04	215.12	91.42
13	Madhya Pradesh	67.01	40.93	131.01
14	Maharashtra Incl. Mumbai	101.55	65.73	139.72
15	Manipur	74.14	47.56	129.82
16	Meghalaya	75.10	55.84	149.21
17	Mizoram	113.65	110.90	115.90
18	Nagaland	71.72	74.33	68.55
19	Odisha	75.56	60.75	139.51
20	Punjab	114.18	67.93	178.90
21	Rajasthan	79.48	57.44	140.43
22	Sikkim	138.74	159.91	115.98
23	Tamil Nadu (incl. Chennai)	103.27	64.45	137.01
24	Telangana	107.51	84.26	133.23
25	Tripura	75.43	58.74	101.82
26	Uttar Pradesh (UPE +UPW)	68.75	48.19	133.96
27	Uttarakhand	114.62	87.68	163.15
28	West Bengal Incl. Kolkata	81.67	57.34	123.78
<b>Union Territories</b>				
1	Andaman & Nicobar Islands	137.87	93.63	194.40
2	Chandigarh	152.67	-	-
3	Dadra and Nagar Haveli and Daman and Diu	75.89	142.79	59.97
4	Delhi	201.45	-	-
5	Jammu & Kashmir	87.37	60.10	149.73
6	Ladakh	179.00	139.66	268.37
7	Lakshdweep	108.34	-	-
8	Puduchery	70.34	70.48	70.28
<b>Total</b>		<b>84.86</b>	<b>58.01</b>	<b>134.62</b>

**Table 1.7 : Service Provider wise Growth in Subscriber base**

Service Provider	Subscriber base (millions)			Rate of Growth (%)	Market Share in QE Jun-22 (%)	Market Share in QE Sep-22 (%)
	Jun-22	Sep-22	Net Additions			
Reliance Jio	419.99	427.62	7.63	1.82	35.81	36.49
Bharti Airtel	369.00	370.62	1.63	0.44	31.46	31.63
Vodafone Idea Ltd	257.32	249.82	-7.49	-2.91	21.94	21.32
BSNL	118.73	116.45	-2.27	-1.91	10.12	9.94
MTNL	5.87	5.35	-0.52	-8.80	0.50	0.46
Tata Teleservices	1.59	1.58	-0.01	-0.46	0.14	0.13
Quadrant	0.30	0.30	0.003	1.05	0.03	0.03
Reliance Com.	0.17	0.16	-0.01	-6.77	0.01	0.01
<b>Total</b>	<b>1,172.96</b>	<b>1,171.92</b>	<b>-1.04</b>	<b>-0.09</b>	<b>100</b>	<b>100</b>

Note: M/s BSNL includes number of subscribers of its Virtual Network Operator (VNO).

1.11 M/s Reliance Jio Infocomm Ltd is the market leader with 36.49% in the access segment in terms of number of subscribers with 427.62 million subscribers at the end of Sep-22 followed by M/s Bharti Airtel Ltd with 370.62 million subscribers.

1.12 In term of net addition, Reliance Jio became the biggest gainer with net addition of 7.63 million telephone subscribers during the QE Sep-22.

**Table 1.8: Market Share of the service providers in total rural subscriber base**

<b>Service Provider</b>	<b>No. of Total Subscribers (in millions)</b>	<b>No. of Rural Subscribers (in millions)</b>	<b>Percentage of Rural subscribers</b>	<b>Market share of Rural subscribers</b>
Reliance Jio	427.62	184.61	43.17%	35.48%
Bharti Airtel	370.62	175.02	47.22%	33.64%
Vodafone Idea Ltd	249.82	123.71	49.52%	23.78%
BSNL	116.45	36.88	31.67%	7.09%
MTNL	5.35	0.04	0.66%	0.01%
Tata Teleservices	1.58	0.03	2.06%	0.01%
Quadrant	0.30	0.02	6.83%	0.004%
Reliance Com.	0.16	0.00	0.26%	0.00%
<b>Total</b>	<b>1,171.92</b>	<b>520.30</b>	<b>44.40</b>	<b>100</b>

1.13 M/s Vodafone Idea Ltd is the telecom service provider with highest proportion of rural telephone subscribers of 49.52% followed by Bharti Airtel of 47.22% to their total telephone subscribers at the end of Sep-22.

## Section B : Wireless Service

**Table 1.9: List of Wireless Access Service Providers currently providing service**

**[As on 30<sup>th</sup> September, 2022]**

Sl.No.	Service Provider	Licensed Service Areas
1	Bharti Airtel Ltd	All India
2	Reliance Jio Infocom Ltd	All India
3	Vodafone Idea Ltd	All India
4	BSNL	All India (except Delhi & Mumbai)
5	MTNL	Delhi & Mumbai
6	Reliance Communications Ltd	All India (except Assam & NE)

*Source : DoT website*

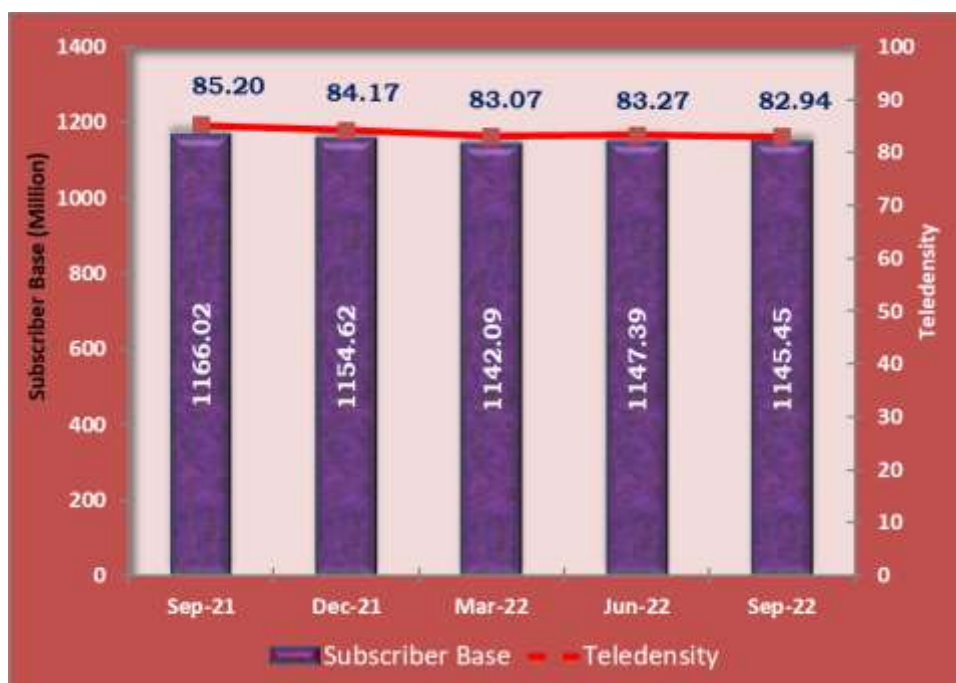
### UL Access Services Licensees Virtual Network Operators (VNOs) who are providing services as on 30<sup>th</sup> September, 2022

1	AdPay Mobile Payment India Pvt. Ltd	Tamil Nadu including Chennai
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*Source : As reported by telecom service providers*

- 1.14 Number of total wireless (Mobile and WLL (F)) subscribers decreased from 1,147.39 million at the end of Jun-22 to 1,145.45 million at the end of Sep-22, thereby showing a quarterly decline rate of 0.17%. During the quarter, net decrease of 1.94 million wireless subscribers has been recorded.
- 1.15 The total wireless subscriber base recorded a Y-O-Y decline rate of 1.76% in QE Sep-22 over the same quarter in the previous year.
- 1.16 Wireless Teledensity in the country decreased from 83.27% at the end of June-22 to 82.94% at the end of Sep-22.

**Chart 1.6: Wireless Subscriber Base and Teledensity**



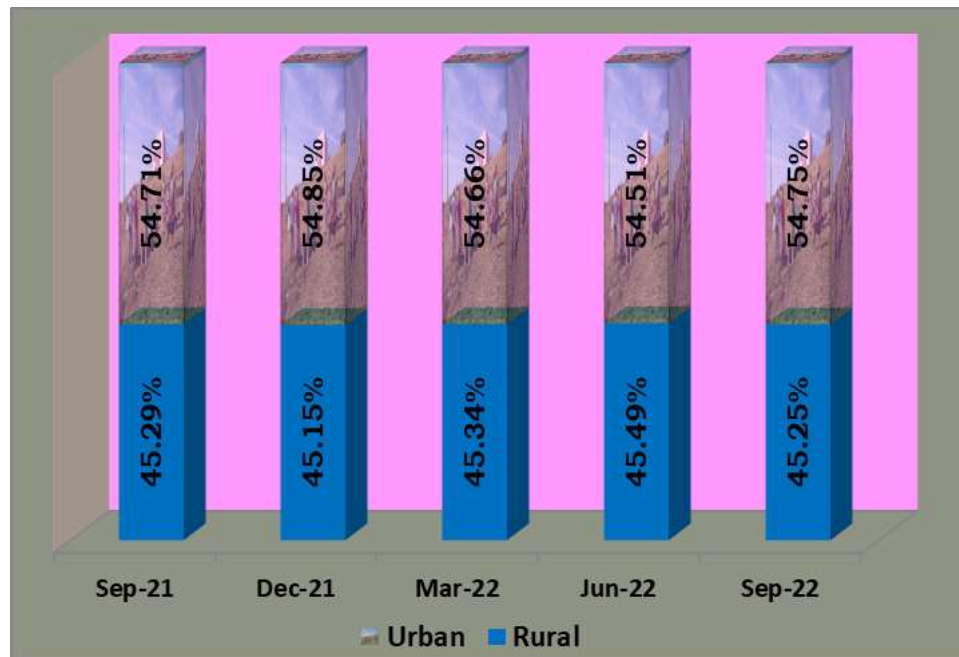
**Table 1.10: Wireless Subscriber Base & Tele-density - Rural & Urban**

Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
Sep-21	528.13	637.89	59.11	134.26
Dec-21	521.28	633.34	58.28	132.68
Mar-22	517.86	624.23	57.85	130.17
Jun-22	521.90	625.49	58.24	129.82
Sep-22	518.31	627.14	57.79	129.56

1.17 Number of Rural Wireless subscribers decreased from 521.90 million at the end of Jun-22 to 518.31 million at the end of Sep-22 however, number of urban wireless subscribers increased from 625.49 million to 627.14 million during the quarter. Quarterly growth rates of Rural and Urban wireless subscriptions are -0.69% and 0.26% respectively during QE Sep-22.

1.18 The share of rural wireless subscription decreased from 45.49% to 45.25% in total wireless subscription during QE Sep-22.

**Chart 1.7: Wireless Market Share - Rural & Urban**



**Table 1.11: Growth in Wireless Subscriber base**

Service Provider	Subscriber Base (millions)			Rate of Growth	Market Share Jun-22	Market Share Sep-22
	Jun-22	Sep-22	Net Additions			
Reliance Jio	413.01	419.97	6.96	1.68%	36.00%	36.66%
Bharti Airtel	362.97	364.22	1.25	0.35%	31.63%	31.80%
Vodafone Idea Ltd	256.65	249.13	-7.51	-2.93%	22.37%	21.75%
BSNL	111.52	109.35	-2.17	-1.94%	9.72%	9.55%
MTNL	3.24	2.77	-0.47	-14.51%	0.28%	0.24%
Reliance Com.	0.003	0.003	0.00	-3.20%	0.0003%	0.0003%
<b>Total</b>	<b>1,147.39</b>	<b>1,145.45</b>	<b>-1.94</b>	<b>-0.17%</b>	<b>100</b>	<b>100</b>

1.19 M/s RJIL Limited is the market leader with a wireless subscriber base of 419.97 million which translates into market share of 36.66% w.r.t total wireless subscriber base. M/s Bharti Airtel Ltd. is at 2<sup>nd</sup> position with a total subscriber base of 364.22 million and market share of 31.80%.



1.20 In terms of net additions during QE Sep-22, except M/s Reliance Jio and M/s Bharti Airtel Limited, all service providers have showed negative growth in their wireless subscribers.

**Table 1.12: Service Area wise Wireless Subscriber base**

Service Area	Subscriber base (in million)			
	Jun-22	Sep-22	Net Additions	Rate of change (%)
Andhra Pradesh	83.21	82.69	-0.52	-0.63%
Assam	24.11	24.44	0.33	1.37%
Bihar	88.95	90.92	1.97	2.22%
Delhi	53.00	53.06	0.06	0.11%
Gujarat	67.37	66.60	-0.77	-1.15%
Haryana	27.12	26.75	-0.38	-1.39%
Himachal Pradesh	9.78	9.80	0.02	0.19%
Jammu & Kashmir	11.75	12.07	0.32	2.69%
Karnataka	65.21	65.73	0.52	0.80%
Kerala	42.88	42.69	-0.20	-0.46%
Madhya Pradesh	77.27	76.80	-0.46	-0.60%
Maharashtra	92.34	91.75	-0.59	-0.64%
Mumbai	34.17	33.84	-0.33	-0.97%
North East	11.97	12.13	0.16	1.33%
Orissa	32.81	33.07	0.26	0.79%
Punjab	36.35	35.82	-0.53	-1.46%
Rajasthan	63.13	63.34	0.21	0.33%
Tamil Nadu	78.96	77.95	-1.02	-1.29%
U.P.(E)	101.72	100.76	-0.96	-0.95%
U.P.(W)	64.48	64.23	-0.25	-0.39%
Kolkata	23.81	23.89	0.08	0.35%
West Bengal	56.98	57.13	0.14	0.25%
<b>All India</b>	<b>1,147.39</b>	<b>1,145.45</b>	<b>-1.94</b>	<b>-0.17%</b>

**Table 1.13: Service Area wise Wireless Rural-Urban Subscriber base**

Service Area	Subscriber base (in million)			
	Total	Rural	Urban	% of Rural Subscribers
Andhra Pradesh	82.69	40.91	41.78	49.47
Assam	24.44	15.43	9.01	63.14
Bihar	90.92	60.19	30.73	66.20
Delhi	53.06	1.78	51.28	3.36
Gujarat	66.60	26.39	40.21	39.63
Haryana	26.75	11.92	14.83	44.56
Himachal Pradesh	9.80	6.46	3.34	65.88
Jammu & Kashmir	12.07	5.95	6.12	49.29
Karnataka	65.73	25.88	39.85	39.37
Kerala	42.69	19.02	23.67	44.56
Madhya Pradesh	76.80	34.70	42.11	45.18
Maharashtra	91.75	42.27	49.47	46.08
Mumbai	33.84	1.10	32.74	3.25
North East	12.13	6.29	5.84	51.87
Orissa	33.07	21.79	11.28	65.88
Punjab	35.82	12.07	23.75	33.69
Rajasthan	63.34	33.98	29.36	53.65
T.N. (incl. Chennai)	77.95	23.08	54.87	29.61
U.P.(E)	100.76	61.86	38.90	61.39
U.P.(W)	64.23	30.62	33.61	47.68
Kolkata	23.89	1.57	22.33	6.56
West Bengal	57.13	35.06	22.07	61.37
<b>All India</b>	<b>1,145.45</b>	<b>518.31</b>	<b>627.14</b>	<b>45.25</b>

1.21 Detailed table on service provider wise wireless subscriber base in each service area is at **Annexure-1.1**.

**Table 1.14 : Service Area wise Wireless Tele-density**

Service Area	As on 30 <sup>th</sup> June, 2022			As on 30 <sup>th</sup> September, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
A.P.	76.87	112.40	91.35	75.95	111.97	90.69
Assam	50.78	161.62	67.93	51.34	163.26	68.70
Bihar	42.42	117.19	54.02	43.13	119.69	55.02
Delhi	-	-	251.25	-	-	250.35
Gujarat	73.01	114.67	93.40	71.61	113.21	92.02
Haryana	69.03	120.55	90.51	68.19	117.87	88.98
H.P.	96.20	438.33	131.41	96.58	435.68	131.50
J&K	60.15	141.72	84.92	61.68	145.05	87.05
Karnataka	69.92	130.74	96.74	68.70	133.52	97.36
Kerala	204.70	90.10	119.95	208.28	88.79	119.29
M.P.	42.43	127.88	66.70	41.73	127.42	66.10
Maharashtra (incl. Mumbai)*	67.44	133.4	99.37	66.35	132.22	98.46
North East	60.63	106.75	76.45	61.17	107.99	77.30
Orissa	60.42	134.01	74.22	60.65	135.65	74.76
Punjab	69.02	172.18	114.23	67.51	169.69	112.38
Rajasthan	58.10	134.95	78.48	57.35	137.07	78.52
Tamil Nadu	63.83	132.66	100.81	63.79	129.98	99.43
Uttar Pradesh (incl. UPE&UPW)*	50.80	119.65	67.66	49.75	120.07	66.99
West Bengal (incl. Kolkata)*	57.72	121.07	80.92	57.90	120.92	81.04
<b>All India</b>	<b>58.24</b>	<b>129.82</b>	<b>83.27</b>	<b>57.79</b>	<b>129.56</b>	<b>82.94</b>

\* Population data/projections are available state-wise only.

**Notes:**

1. Tele-density figures are derived from the subscriber data provided by the operators and the projection of population from the 'Report of the Technical Group on Population Projections for India and States 2011 – 2036', which is available under the link [https://main.mohfw.gov.in/sites/default/files/\\_Population%20Projection%20Report%202011-2036%20-%20upload\\_compressed\\_0.pdf](https://main.mohfw.gov.in/sites/default/files/_Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf)
2. Delhi Service area, apart from the State of Delhi, includes wireless subscribers of the areas served by the local exchanges of Ghaziabad & Noida (in UP) and Gurgaon & Faridabad (in Haryana).
3. Data/information for Andhra Pradesh includes Telengana, Madhya Pradesh includes Chhatisgarh, Bihar includes Jharkhand, Maharashtra includes Goa, Uttar Pradesh includes Uttarakhand, West Bengal includes Sikkim and North-East includes Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland & Tripura states.

**Table 1.15 : State/UT wise Wireless Subscriber Base**

Sl. No.	States/UT	Wireless Subscribers (in million)		
		Total	Rural	Urban
1	Andhra Pradesh	42.78	24.10	18.68
2	Arunachal Pradesh	1.30	0.78	0.52
3	Assam	24.44	15.43	9.01
4	Bihar	67.61	47.32	20.29
5	Chhattisgarh	19.97	9.66	10.31
6	Goa	2.21	0.79	1.42
7	Gujarat	65.68	26.06	39.62
8	Haryana	32.70	11.97	20.73
9	Himachal Pradesh	9.80	6.46	3.34
10	Jharkhand	23.31	12.87	10.44
11	Karnataka	65.73	25.88	39.85
12	Kerala	42.62	19.00	23.61
13	Madhya Pradesh	56.83	25.04	31.79
14	Maharashtra	123.38	42.58	80.80
15	Manipur	2.34	1.03	1.31
16	Meghalaya	2.46	1.48	0.99
17	Mizoram	1.37	0.62	0.76
18	Nagaland	1.58	0.91	0.67
19	Odisha	33.07	21.79	11.28
20	Punjab	34.15	12.03	22.12
21	Rajasthan	63.34	33.98	29.36
22	Sikkim	0.95	0.57	0.38
23	Tamil Nadu	76.86	22.75	54.11
24	Telangana	39.92	16.81	23.10
25	Tripura	3.08	1.48	1.60
26	Uttar Pradesh	160.08	85.96	74.11
27	Uttarakhand	13.04	6.52	6.53
28	West Bengal	79.55	35.87	43.69
<b>Union Territories</b>				
1	Andaman & Nicobar Islands	0.52	0.19	0.32
2	Chandigarh	1.67	0.04	1.63
3	Dadra and Nagar Haveli and Daman and Diu	0.92	0.33	0.59
4	Delhi	38.97	1.73	37.24
5	Jammu & Kashmir	11.53	5.66	5.88
6	Ladakh	0.53	0.29	0.24
7	Lakshdweep	0.07	0.02	0.05
8	Puduchery	1.09	0.33	0.76
<b>Total</b>		<b>1145.45</b>	<b>518.31</b>	<b>627.14</b>

**Table 1.16 : State/UT wise Wireless Tele-density**

Sl.No.	State/UT	Wireless Tele-density (%)		
		Total	Rural	Urban
1	Andhra Pradesh	80.59	71.19	97.15
2	Arunachal Pradesh	83.75	67.32	131.70
3	Assam	68.70	51.34	163.26
4	Bihar	53.66	42.80	131.53
5	Chhattisgarh	66.49	44.03	127.22
6	Goa	140.43	204.25	119.57
7	Gujarat	92.31	71.16	114.75
8	Haryana	108.79	68.46	164.82
9	Himachal Pradesh	131.50	96.58	435.68
10	Jharkhand	59.38	44.37	101.86
11	Karnataka	97.36	68.70	133.52
12	Kerala	119.32	208.12	88.82
13	Madhya Pradesh	65.97	40.91	127.49
14	Maharashtra	97.94	65.53	132.47
15	Manipur	72.83	47.43	126.06
16	Meghalaya	73.81	55.76	143.24
17	Mizoram	111.18	110.79	111.51
18	Nagaland	70.80	74.29	66.57
19	Odisha	74.76	60.65	135.65
20	Punjab	111.44	67.31	173.19
21	Rajasthan	78.52	57.35	137.07
22	Sikkim	137.87	159.85	114.25
23	Tamil Nadu	100.12	63.72	131.76
24	Telangana	104.75	84.00	127.71
25	Tripura	74.54	58.59	99.77
26	Uttar Pradesh	68.21	48.17	131.76
27	Uttarakhand	112.57	87.47	157.77
28	West Bengal	80.45	57.22	120.68
<b>Union Territories</b>				
1	Andaman & Nicobar Islands	128.94	86.07	183.71
2	Chandigarh	135.99	-	-
3	Dadra and Nagar Haveli and Daman and Diu	75.37	141.91	59.53
4	Delhi	183.86	-	-
5	Jammu & Kashmir	85.04	59.97	142.37
6	Ladakh	177.76	139.12	265.56
7	Lakshdweep	102.47	-	-
8	Puduchery	66.85	68.41	66.19
<b>All India Tele-density</b>		<b>82.94</b>	<b>57.79</b>	<b>129.56</b>

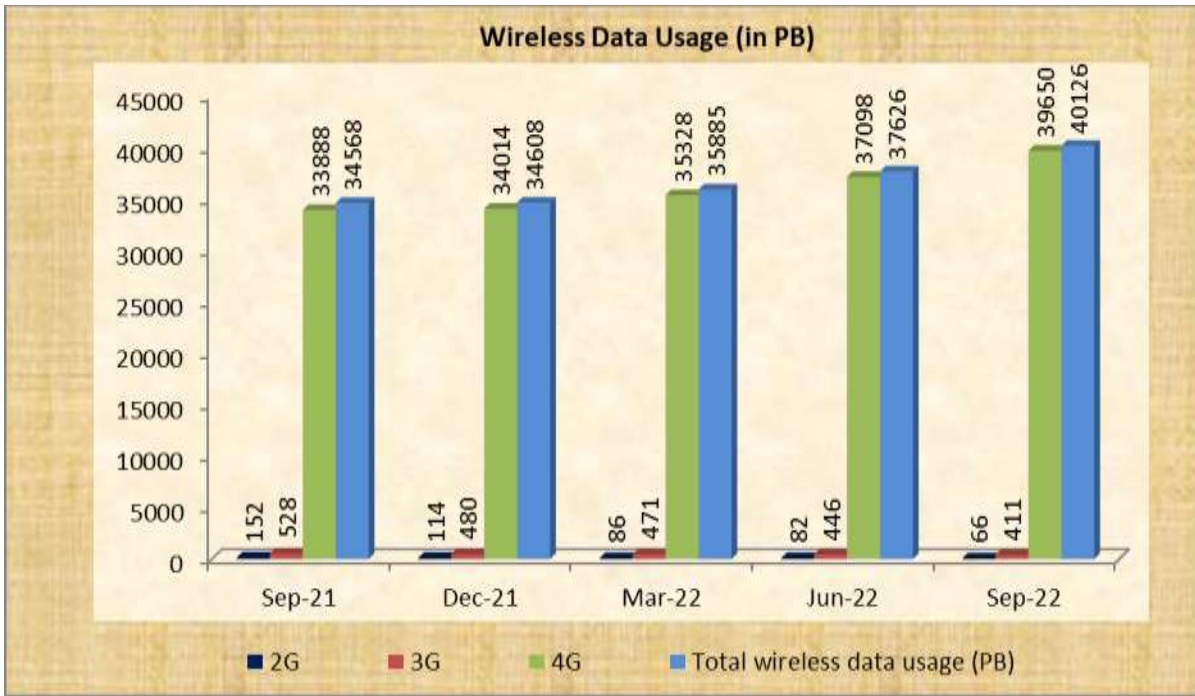
**Table 1.17 : Rural Wireless Subscriber base and Market Share  
(as on 30.09.2022)**

<b>Service Provider</b>	<b>Total number of wireless Subscribers (in millions)</b>	<b>Rural Subscribers (in millions)</b>	<b>% of Rural subscribers in total</b>	<b>Market Share of Rural Subscribers</b>
Reliance Jio	419.97	184.47	43.92%	35.59%
Bharti Airtel	364.22	175.02	48.05%	33.77%
Vodafone Idea Ltd	249.13	123.71	49.66%	23.87%
BSNL	109.35	35.08	32.08%	6.77%
MTNL	2.77	0.04	1.28%	0.01%
Reliance Com.	0.003	0.00	0.00%	0.000%
<b>Total</b>	<b>1,145.45</b>	<b>518.31</b>	<b>45.25%</b>	<b>100.00%</b>

### Wireless Data Usage

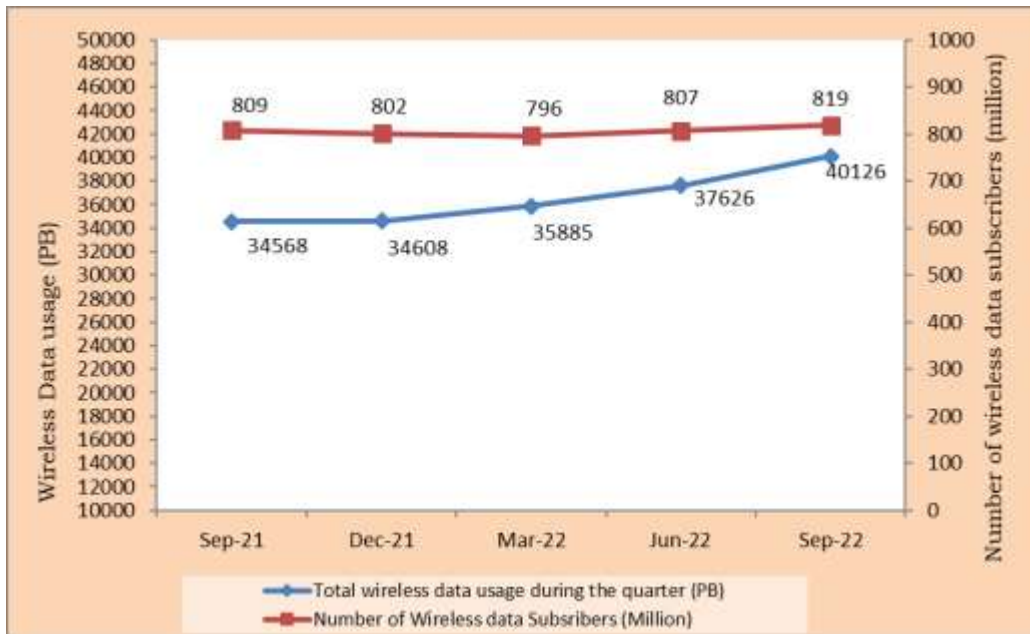
- 1.22 Volume of total wireless data usage increased from 37,626 PB during Q.E. June-22 to 40,126 PB during Q.E. September-22 with quarterly growth rate of 6.65%. Out of total data wireless usage, 2G data usage was 66 PB, 3G data usage was 411 PB and 4G data usage was 39,650 PB during the quarter.
- 1.23 Total number of wireless data subscribers increased from 806.97 million at the end of June-22 to 818.98 million at the end of September-22.
- 1.24 The contribution of 2G, 3G and 4G data usage in total volume of wireless data usage are about 0.16%, 1.02% and 98.81% respectively during the QE Sep-22.
- 1.25 Technology-wise trend of growth in volume of wireless data usage is depicted in the following chart.

**Chart 1.8: Trend of technology wise wireless data usase (in PB)**



1.26 The following chart depicts the trend of number of wireless data subscribers and volume of wireless data usage in QE Sep-22.

**Chart 1.9: Trend of Wireless data subscribers (million) and volume of wireless data usage (PB)**



## Section C : Wireline Service

**\*Table 1.18 : Service Providers providing Wireline Service**

[As on 30<sup>th</sup> September, 2022]

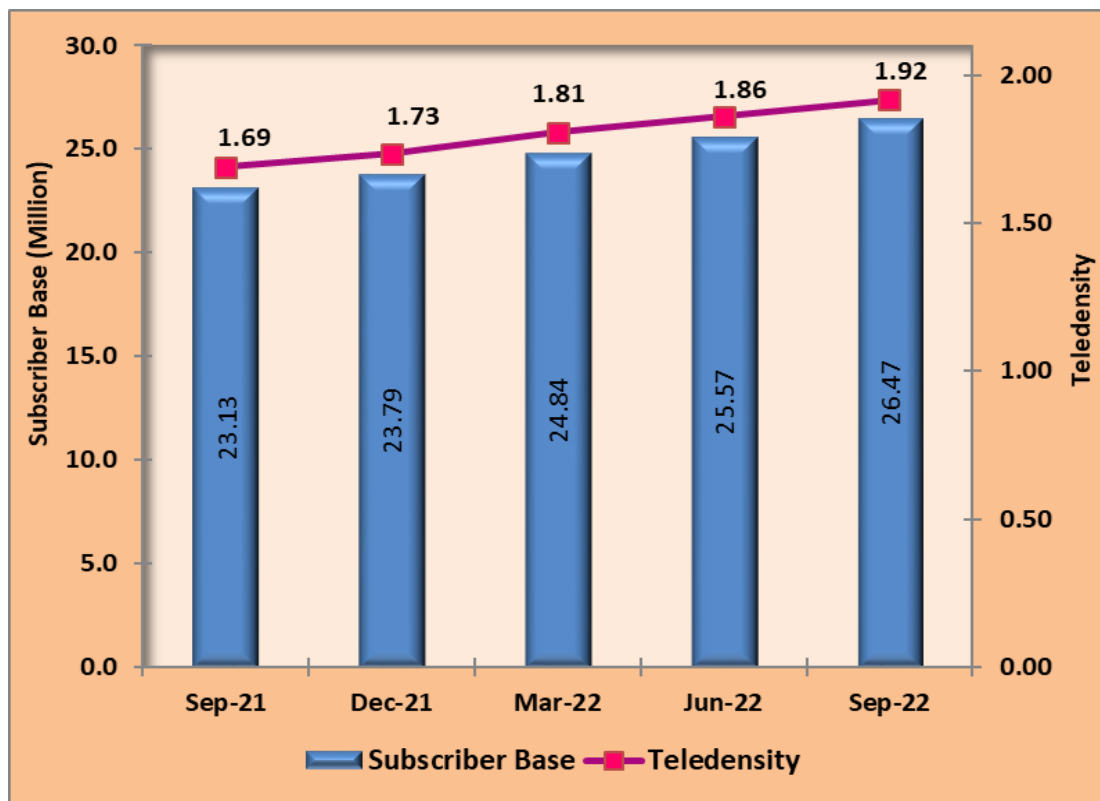
Sl. No.	Name of the Service Provider	Area of Operation
1	Bharti Airtel Ltd	Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Kolkata, Madhya Pradesh, Maharashtra, Mumbai, Odisha, Punjab, Rajasthan, Tamil Nadu including Chennai, UP-East, UP-West and West Bengal.
2	BSNL	All India except Delhi & Mumbai
3	MTNL	Delhi & Mumbai
4	Quadrant Televentures Ltd.	Punjab
5	Reliance Communications Ltd.	Andhra Pradesh, Bihar, Delhi, Gujarat, Karnataka, Kerala, Kolkata, Madhya Pradesh, Maharashtra, Mumbai, Odisha, Punjab, Rajasthan, Tamil Nadu including Chennai, UP-East, UP-West and West Bengal.
6.	Tata Teleservices Ltd. & Tata Teleservices (Maharashtra) Ltd	Andhra Pradesh, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Karnataka, Kerala, Kolkata, Madhya Pradesh, Maharashtra, Mumbai, Odisha, Punjab, Rajasthan, Tamil Nadu including Chennai, UP-East, UP-West and West Bengal.
7	Vodafone Idea Ltd	Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Kolkata, Madhya Pradesh, Maharashtra, Mumbai, North-East, Odisha, Punjab, Rajasthan, Tamil Nadu including Chennai, UP-East, UP-West and West Bengal.
8	Reliance Jio Infocomm Ltd.	Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Kolkata, Madhya Pradesh, Maharashtra, Mumbai, North-East, Odisha, Punjab, Rajasthan, Tamil Nadu including Chennai, UP-East, UP-West and West Bengal.

1.27 Total number of Wireline subscribers increased from 25.57 million at the end of June-22 to 26.47 million at the end of Sep-22 with quarterly growth rate of 3.54%. Overall Wireline Teledensity in the country increased from 1.86% at the end of Jun-22 to 1.92% at the end of Sep-22.

1.28 Urban wireline subscriber base increased by 3.73% from 23.60 million at the end of Jun-22 to 24.48 million at the end of Sep-22. Rural wireline subscription also increased by 1.26%, from 1.97 million to 1.99 million during the same period.



**Chart 1.10: Wireline Subscriber Base and Tele-density**



**Table 1.19: Wireline Subscriber Base & Tele-density - Rural & Urban**

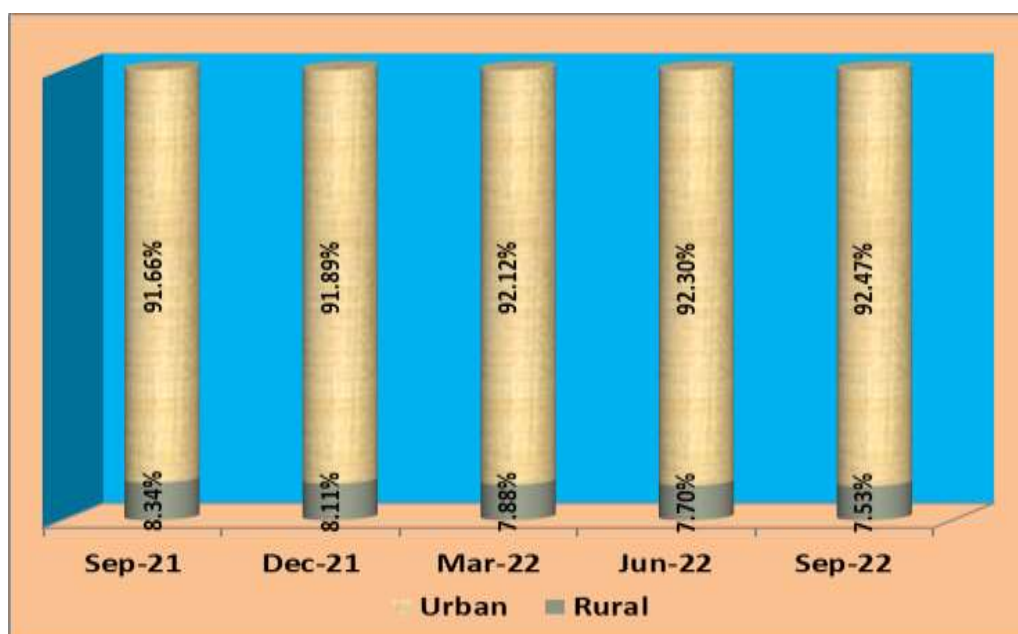
Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
Sep-21	1.93	21.20	0.22	4.46
Dec-21	1.93	21.86	0.22	4.58
Mar-22	1.96	22.88	0.22	4.77
Jun-22	1.97	23.60	0.22	4.90
Sep-22	1.99	24.48	0.22	5.06

**Table 1.20 : Service Provider wise Wireline Subscriber base  
(Rural - Urban) – As on 30.09.2022**

Service Provider	Subscriber Base (million)			Percentage of Rural subscribers	Share of Rural subscription
	Rural	Urban	Total		
BSNL	1.80	5.30	7.10	25.34%	90.23%
Bharti	--	6.40	6.40	--	0.00%
MTNL	--	2.59	2.59	--	0.00%
Tata Tele.	0.03	1.55	1.58	2.06%	1.63%
Reliance Com.	0.0004	0.16	0.16	0.26%	0.02%
Quadrant	0.02	0.28	0.30	6.83%	1.03%
Vodafone Idea	--	0.69	0.69	--	0.00%
Reliance Jio	0.14	7.51	7.65	1.84%	7.08%
<b>Total</b>	<b>1.99</b>	<b>24.48</b>	<b>26.47</b>	<b>7.53%</b>	<b>100.00%</b>

1.29 Detailed table on service provider wise wireline subscriber base in each service area is at **Annexure-1.2**.

**Chart 1.11: Composition of Wireline Subscriber base - Rural & Urban**



1.30 Market Share of Rural wireline subscription decreased from 7.70% in QE Jun-22 to 7.53% in QE Sep-22.

**Table 1.21 : Service Provider wise growth in Wireline Subscriber base**

Service Provider	Subscriber Base (million)			Rate of change (%)	Market share-Jun-22(%)	Market share-Sep-22(%)
	Jun-22	Sep-22	Net Addition			
Reliance Jio	6.98	7.65	0.67	9.66	27.29	28.91
BSNL	7.20	7.10	-0.10	-1.42	28.17	26.82
Bharti Airtel	6.03	6.40	0.38	6.22	23.58	24.19
MTNL	2.63	2.59	-0.05	-1.76	10.29	9.77
Vodafone Idea	0.67	0.69	0.02	2.90	2.63	2.61
Tata Tele.	1.59	1.58	-0.01	-0.46	6.20	5.97
Quadrant	0.30	0.30	0.00	1.05	1.17	1.14
Reliance Com	0.17	0.16	-0.01	-6.84	0.66	0.60
<b>Total</b>	<b>25.57</b>	<b>26.47</b>	<b>0.90</b>	<b>3.54</b>	<b>100</b>	<b>100</b>

**Table 1.22: Service Area wise Wireline Subscriber base & Net Additions (in million)**

Service Area	Jun-22	Sep-22	Net Additions	Rate of Change (%)
Andhra Pradesh	2.09	2.20	0.11	5.13
Assam	0.24	0.25	0.02	6.72
Bihar	0.47	0.56	0.09	18.69
Delhi	3.97	4.06	0.09	2.28
Gujarat	1.09	1.10	0.01	0.65
Haryana	0.36	0.39	0.03	9.27
Himachal Pradesh	0.13	0.13	0.01	4.78
Jammu & Kashmir	0.30	0.32	0.02	7.59
Karnataka	2.78	2.93	0.16	5.70
Kerala	1.31	1.33	0.02	1.59

Service Area	Jun-22	Sep-22	Net Additions	Rate of Change (%)
Madhya Pradesh	1.12	1.16	0.04	3.56
Maharashtra	1.41	1.41	-0.01	-0.43
Mumbai	3.21	3.21	0.00	0.04
North East	0.18	0.19	0.01	6.06
Orissa	0.34	0.36	0.02	5.07
Punjab	1.01	1.04	0.03	3.40
Rajasthan	0.73	0.77	0.04	4.80
Tamil Nadu	2.40	2.47	0.07	3.02
U.P.(E)	0.61	0.66	0.05	8.20
U.P.(W)	0.64	0.67	0.03	5.10
Kolkata	0.78	0.81	0.03	4.17
West Bengal	0.40	0.44	0.03	8.42
<b>All India</b>	<b>25.57</b>	<b>26.47</b>	<b>0.90</b>	<b>3.54</b>

1.31 Bihar service area showed maximum growth of 18.69% and only Maharashtra service area showed decline of 0.43% in their wireline subscriber base during the quarter ending Sep-22.

**Table 1.23: Service Area wise Wireline Rural-Urban Subscriber Base (in million)**

Service Area	Total Subscribers	Rural Subscribers	Urban Subscribers	% of Rural Subscribers
Andhra Pradesh	2.20	0.19	2.00	8.78
Assam	0.25	0.02	0.23	8.29
Bihar	0.56	0.04	0.53	6.40
Delhi	4.06	0.00	4.06	0.05
Gujarat	1.10	0.07	1.03	6.21
Haryana	0.39	0.06	0.33	15.53
Himachal Pradesh	0.13	0.05	0.08	37.29
Jammu & Kashmir	0.32	0.01	0.31	4.24
Karnataka	2.93	0.11	2.83	3.67

<b>Service Area</b>	<b>Total Subscribers</b>	<b>Rural Subscribers</b>	<b>Urban Subscribers</b>	<b>% of Rural Subscribers</b>
Kerala	1.33	0.64	0.69	48.08
Madhya Pradesh	1.16	0.02	1.13	2.12
Maharashtra	1.41	0.14	1.27	9.79
Mumbai	3.21	0.01	3.20	0.27
North East	0.19	0.01	0.18	7.55
Orissa	0.36	0.04	0.32	10.09
Punjab	1.04	0.11	0.93	10.73
Rajasthan	0.77	0.05	0.72	6.51
Tamil Nadu	2.47	0.27	2.20	10.91
U.P.(E)	0.66	0.02	0.64	3.50
U.P.(W)	0.67	0.03	0.64	4.43
Kolkata	0.81	0.00	0.81	0.00
West Bengal	0.44	0.09	0.34	21.54
<b>All India</b>	<b>26.47</b>	<b>1.99</b>	<b>24.48</b>	<b>7.53</b>

1.32 Kerala service area has the maximum share 48.08% of rural wireline subscriber in its total wireline subscriber base at the end of Sep-22.

**Table 1.24: Service Area wise Wireline Tele-density**

Service Area	As on 30 <sup>th</sup> June, 2022			As on 30 <sup>th</sup> September, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Andhra Pradesh	0.35	5.12	2.29	0.36	5.37	2.41
Assam	0.07	3.93	0.66	0.07	4.18	0.71
Bihar	0.02	1.73	0.29	0.03	2.05	0.34
Delhi	-	-	18.81	-	-	19.15
Gujarat	0.18	2.91	1.52	0.19	2.91	1.52
Haryana	0.33	2.41	1.19	0.35	2.62	1.30
Himachal Pradesh	0.77	10.02	1.72	0.75	10.97	1.80
Jammu & Kashmir	0.15	6.74	2.15	0.14	7.26	2.31
Karnataka	0.28	8.99	4.12	0.29	9.47	4.35
Kerala	6.82	2.57	3.67	7.03	2.60	3.73
Madhya Pradesh	0.03	3.32	0.96	0.03	3.43	1.00
Maharashtra (incl. Mumbai)*	0.24	7.21	3.63	0.22	7.19	3.62
North East	0.14	3.08	1.15	0.14	3.26	1.22
Orissa	0.11	3.65	0.77	0.10	3.87	0.81
Punjab	0.61	6.46	3.17	0.63	6.66	3.27
Rajasthan	0.08	3.22	0.91	0.08	3.36	0.95
Tamil Nadu (incl. Chennai)	0.74	5.06	3.06	0.74	5.22	3.15
Uttar Pradesh (incl. UPE & UPW)*	0.03	1.99	0.51	0.03	2.12	0.54
West Bengal (incl. Kolkata)*	0.14	2.97	1.18	0.15	3.13	1.24
<b>All India</b>	<b>0.22</b>	<b>4.90</b>	<b>1.86</b>	<b>0.22</b>	<b>5.06</b>	<b>1.92</b>

\* Population data/projections are available state-wise only

- Note: -
1. Tele-density figures are derived from the subscriber data provided by the operators and projection of population from the 'Report of the Technical Group on Population Projections for India and States 2011 – 2036', which is available under the link [https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload\\_compressed\\_0.pdf](https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf)
  2. Data/information for Andhra Pradesh includes Telengana, Madhya Pradesh includes Chhathishgarh, Bihar includes Jharkhand, Maharashtra includes Goa, Uttar Pradesh includes Uttarakhand, West Bengal includes Sikkim and North-East includes Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland & Tripura states.

**Table 1.25: State/UT wise Wireline Subscriber base**

Sl. No.	States/UT	Wireline Subscribers (in million)		
		Total	Rural	Urban
1	Andhra Pradesh	1.15	0.14	1.01
2	Arunachal Pradesh	0.02	0.004	0.01
3	Assam	0.25	0.02	0.23
4	Bihar	0.30	0.03	0.27
5	Chhattisgarh	0.26	0.01	0.25
6	Goa	0.07	0.02	0.05
7	Gujarat	1.09	0.07	1.03
8	Haryana	0.54	0.06	0.48
9	Himachal Pradesh	0.13	0.05	0.08
10	Jharkhand	0.26	0.01	0.25
11	Karnataka	2.93	0.11	2.83
12	Kerala	1.33	0.64	0.69
13	Madhya Pradesh	0.89	0.02	0.88
14	Maharashtra Incl. Mumbai	4.55	0.13	4.42
15	Manipur	0.04	0.003	0.04
16	Meghalaya	0.04	0.002	0.04
17	Mizoram	0.03	0.001	0.03
18	Nagaland	0.02	0.001	0.02
19	Odisha	0.36	0.04	0.32
20	Punjab	0.84	0.11	0.73
21	Rajasthan	0.77	0.05	0.72
22	Sikkim	0.006	0.0002	0.01
23	Tamil Nadu	2.41	0.26	2.16
24	Telangana	1.05	0.05	1.00
25	Tripura	0.04	0.004	0.03
26	Uttar Pradesh (UPE+UPW)	1.27	0.04	1.24
27	Uttarakhand	0.24	0.02	0.22
28	West Bengal Incl. Kolkata	1.20	0.08	1.13
<b>Union Territories</b>				
1	Andaman & Nicobar Islands	0.04	0.02	0.02
2	Chandigarh	0.20	0.002	0.20
3	Dadra and Nagar Haveli and Daman and Diu	0.006	0.002	0.004
4	Delhi	3.73	0.0003	3.73
5	Jammu & Kashmir	0.32	0.01	0.30
6	Ladakh	0.004	0.001	0.003
7	Lakshdweep	0.004	0.002	0.002
8	Puduchery	0.06	0.01	0.05
<b>Total</b>		<b>26.47</b>	<b>1.99</b>	<b>24.48</b>

**Table 1.26: State/UT wise Wireline Tele-density**

Sl.No.	State/UT	Wireline Tele-density		
		Total (%)	Rural (%)	Urban (%)
1	Andhra Pradesh	4.14	0.57	10.42
2	Arunachal Pradesh	1.17	0.37	3.48
3	Assam	0.71	0.07	4.18
4	Bihar	0.24	0.02	1.77
5	Chhattisgarh	0.88	0.04	3.14
6	Goa	4.19	4.48	4.10
7	Gujarat	1.54	0.18	2.98
8	Haryana	1.80	0.36	3.81
9	Himachal Pradesh	1.80	0.75	10.97
10	Jharkhand	0.67	0.03	2.48
11	Karnataka	4.35	0.29	9.47
12	Kerala	3.73	7.01	2.60
13	Madhya Pradesh	1.04	0.02	3.52
14	Maharashtra Incl. Mumbai	3.61	0.20	7.25
15	Manipur	1.31	0.14	3.76
16	Meghalaya	1.29	0.08	5.97
17	Mizoram	2.47	0.11	4.40
18	Nagaland	0.92	0.04	1.98
19	Odisha	0.81	0.10	3.87
20	Punjab	2.74	0.61	5.71
21	Rajasthan	0.95	0.08	3.36
22	Sikkim	0.87	0.06	1.73
23	Tamil Nadu	3.15	0.73	5.25
24	Telangana	2.76	0.26	5.52
25	Tripura	0.89	0.15	2.05
26	Uttar Pradesh (UPE + UPW)	0.54	0.02	2.20
27	Uttarakhand	2.05	0.21	5.39
28	West Bengal incl. Kolkata	1.22	0.12	3.11
<b>Union Territories</b>				
1	Andaman & Nicobar Islands	8.94	7.57	10.68
2	Chandigarh	16.68	225.80	16.51
3	Dadra and Nagar Haveli and Daman and Diu	0.52	0.87	0.43
4	Delhi	17.59	0.27	17.67
5	Jammu & Kashmir	2.33	0.13	7.36
6	Ladakh	1.23	0.54	2.81
7	Lakshdweep	5.87	159.30	3.60
8	Puduchery	3.49	2.07	4.09
<b>Total</b>		<b>1.92</b>	<b>0.22</b>	<b>5.06</b>



## Public Call Offices (PCO)

1.33 Total number of PCOs in the country decreased from 61,427 at the end of Jun-22 to 57,125 at the end of Sep-22. Detailed table of service provider wise PCOs is available at **Annexure-1.3**.

**Chart 1.12: Trend of Number of PCOs**



1.34 Number of PCOs continued show declining trend over the year. It has recorded a overall quarterly decline rate of 7% and on Y-O-Y basis decline rate of 30.10% at the QE Sep-22.

**Table 1.27: Rate of change & Market share of PCOs**

Service Provider	Jun-22	Sep-22	Rate of change (%)	Market share (%) (Sep-22)
BSNL	42,257	38,955	-7.81	68.19
MTNL	14,906	13,931	-6.54	24.39
Bharti	3,861	3,861	0.00	6.76
Quadrant	403	378	-6.20	0.66
<b>Total</b>	<b>61,427</b>	<b>57,125</b>	<b>-7.00</b>	<b>100%</b>

## Village Public Telephones (VPTs)

- 1.35 There are 5,93,731 inhabited villages in India as per census 2001. During the Q.E. Sep-22, there are 68,606 villages having Village Public Telephones (VPTs).
- 1.36 Number of VPTs remained same i.e. 68,606 at the end of Sep-22 as were at the end of Jun-22.
- 1.37 As per the information received in TRAI, at the end of Sep-22, only M/s BSNL was providing VPT in the country. Service area wise detailed table of VPT is available at **Annexure-1.4**.

**Chart 1.13: Trend of number of VPTs**



## **Section D: Internet Service**

1.38 This section summarizes information submitted by internet service providers for the quarter ending Sep-22. **Part-I** consists of information of Internet service (narrowband+broadband), **Part-II** consists of broadband service and **Part-III** covers narrowband service.

### **Part-I: Internet Service (broadband + narrowband)**

1.39 As per reports received from 860 operators as compared to 675 operators in last quarter, total number of internet subscribers increased from 836.86 million at the end of Jun-22 to 850.95 million at the end of Sep-22 with quarterly growth rate of 1.68%. Out of total 850.95 million internet subscribers, 815.93 million were broadband subscribers and 35.01 million were narrowband subscribers.

1.40 Wired Internet subscribers increased from 28.73 million at the end of Jun-22 to 30.82 million at the end of Sep-22 with quarterly growth rate of 7.27%. Wireless Internet subscribers increased from 808.13 million at the end of Jun-22 to 820.14 million at the end of Sep-22 with quarterly growth rate of 1.48%.

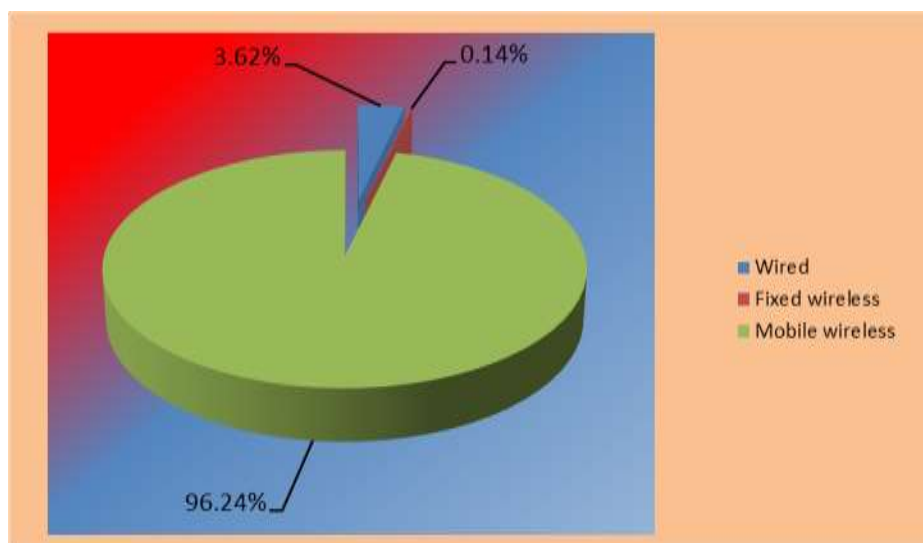
1.41 The number of Broadband subscribers increased from 800.94 million at the end of Jun-22 to 815.93 million at the end of Sep-22 with quarterly growth rate of 1.87%. Number of Narrowband subscribers declined from 35.92 million at the end of Jun-22 to 35.01 million at the end of Sep-22 with quarterly decline rate of 2.52%.

**Table 1.28: Trend of Internet subscriber base**

Segment	Mode of Access								Total Subscribers (in million)	
	Wired Subscribers (in million)		Wireless Subscribers (in million)							
			Fixed Wireless (Wi-Fi, Wi-Max, Radio & VSAT)		Mobile Wireless (Phone + Dongle)		Total Wireless			
	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22
Broadband	28.71	30.79	1.10	1.15	771.13	783.99	772.23	785.14	800.94	815.93
Narrowband	0.02	0.02	0.01	0.01	35.89	34.98	35.90	34.99	35.92	35.01
<b>Total</b>	<b>28.73</b>	<b>30.82</b>	<b>1.11</b>	<b>1.16</b>	<b>807.02</b>	<b>818.98</b>	<b>808.13</b>	<b>820.13</b>	<b>836.86</b>	<b>850.95</b>

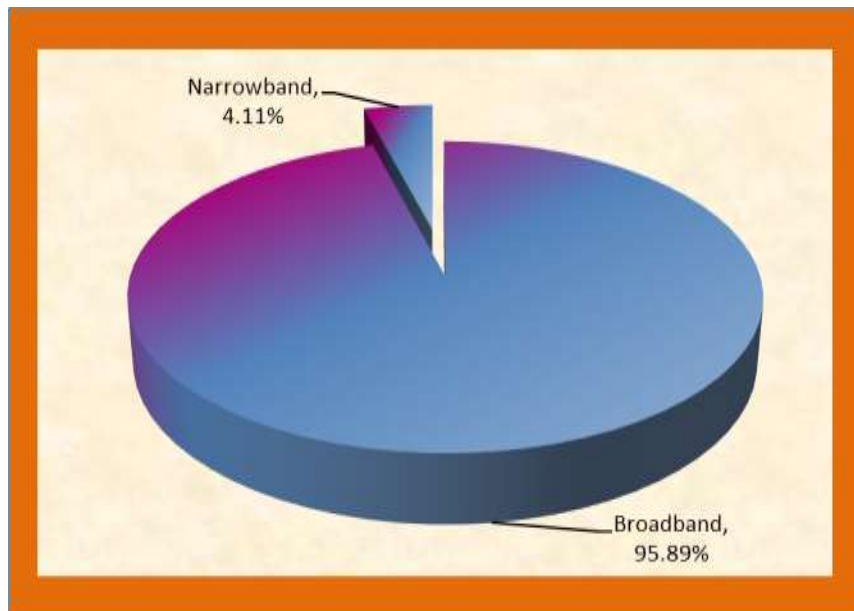
1.42 The following charts present the composition of Internet Subscribers by mode of access and composition of Broadband & Narrowband subscription as on 30<sup>TH</sup> September, 2022.

**Chart 1.14: Composition of Internet subscription**



1.43 Out of total internet subscribers, 96.24% subscribers are using Mobile devices for access of internet service. Wired internet subscribers are only 3.62% in total internet subscribers at the end of September-22.

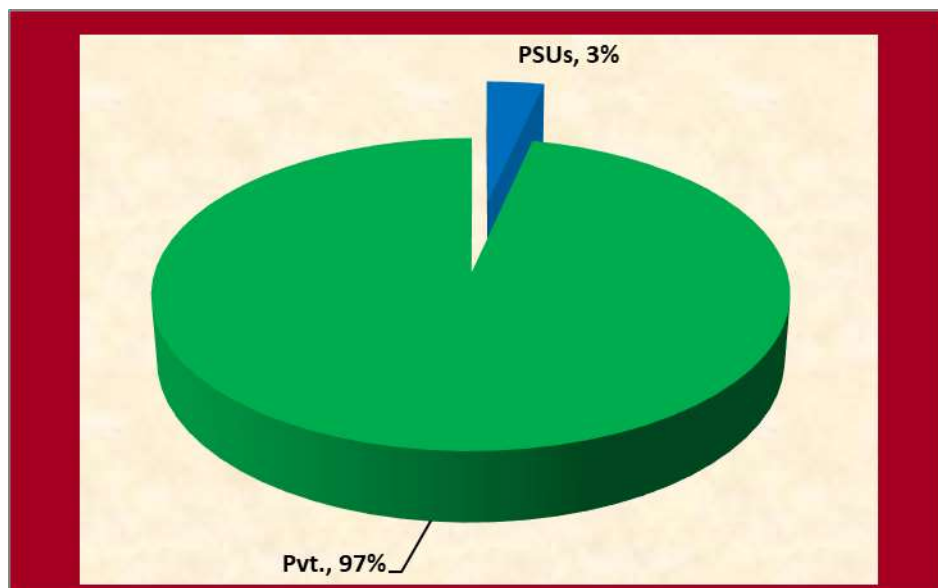
**Chart 1.15 : Composition of Broadband & Narrowband subscription**



1.44 Out of total internet subscribers, 95.89% subscribers are using broadband for access of internet.

1.45 Share of private internet service providers in total internet subscriber base is 97%, at QE Sep-22. The following charts present the composition of market share of PSUs and Private Internet service providers.

**Chart 1.16 : Market share of PSUs and Private Internet Service Providers**



1.46 The urban/rural break up of internet subscribers are as per the following table:

**Table 1.29: Service Area wise Break up of Rural-Urban internet subscriber base (in millions)**

Telecom Service Area	Narrowband		Broadband		Total (Sep-22)		Total (Jun-2022)	
	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban
Andhra Pradesh	1.30	1.23	26.43	34.91	27.73	36.14	27.70	35.30
Assam	0.37	0.16	9.75	6.23	10.12	6.39	9.87	6.32
Bihar	1.96	0.59	37.90	22.23	39.86	22.82	38.92	22.10
Delhi	0.25	5.80	0.51	42.79	0.77	48.59	0.79	47.30
Gujarat	0.46	0.61	16.24	34.55	16.69	35.16	16.67	34.78
Haryana	0.30	0.42	7.73	9.79	8.03	10.21	8.06	10.44
Himachal Pradesh	0.09	0.08	3.71	2.28	3.80	2.35	3.67	2.29
Jammu & Kashmir	0.13	0.09	4.05	4.93	4.18	5.01	4.05	4.86
Karnataka	1.07	1.97	17.48	30.09	18.55	32.06	18.38	30.77
Kerala	0.52	0.45	14.16	16.12	14.68	16.57	14.29	16.37
Kolkata	0.04	0.58	1.23	16.30	1.27	16.88	1.24	16.64
Madhya Pradesh	0.90	0.69	23.46	33.59	24.36	34.28	24.19	33.51
Maharashtra	1.20	1.02	29.40	40.94	30.61	41.96	30.35	41.36
Mumbai	0.01	1.22	1.04	27.76	1.05	28.98	1.04	28.82
North East	0.13	0.11	4.61	4.42	4.73	4.52	4.66	4.38
Orissa	0.47	0.16	13.70	7.30	14.17	7.46	14.02	7.22
Punjab	0.29	0.51	8.38	17.17	8.67	17.68	8.58	17.42
Rajasthan	0.72	0.70	20.62	22.99	21.34	23.69	21.39	23.12
Tamil Nadu	0.77	1.35	15.02	39.46	15.80	40.81	15.67	40.81
UP (East)	2.35	0.86	35.43	28.91	37.77	29.77	36.90	28.73
UP (West)	0.88	0.70	17.51	25.54	18.39	26.24	18.04	25.80
West Bengal	1.19	0.34	20.07	19.20	21.26	19.54	20.83	19.23
<b>Grand Total</b>	<b>15.39</b>	<b>19.62</b>	<b>328.43</b>	<b>487.51</b>	<b>343.82</b>	<b>507.13</b>	<b>339.30</b>	<b>497.56</b>
	<b>35.01</b>		<b>815.93</b>		<b>850.95</b>		<b>836.86</b>	

The information is compiled based on the reports being received from the Internet Service Providers.

**Table 1.30: State/UT wise Break up of Rural-Urban internet subscriber base (in millions)**

S.No.	State(s)	Narrowband		Broadband		Total (Sep 2022)	
		Rural	Urban	Rural	Urban	Rural	Urban
1	Andhra Pradesh	0.79	0.69	15.46	15.51	16.25	16.20
2	Arunachal Pradesh	0.01	0.01	0.44	0.32	0.46	0.33
3	Assam	0.37	0.16	9.75	6.23	10.12	6.39
4	Bihar	1.65	0.40	28.84	14.62	30.49	15.02
5	Chattisgarh	0.18	0.16	7.00	8.00	7.18	8.16
6	Goa	0.05	0.05	0.63	1.28	0.68	1.33
7	Gujarat	0.45	0.61	16.00	34.20	16.46	34.80
8	Haryana	0.30	0.42	7.78	12.87	8.08	13.29
9	Himachal Pradesh	0.09	0.08	3.71	2.28	3.80	2.35
10	Jharkhand	0.31	0.19	9.05	7.61	9.37	7.80
11	Karnataka	1.07	1.97	17.48	30.09	18.55	32.06
12	Kerala	0.49	0.45	14.14	16.11	14.63	16.56
13	Madhya Pradesh	0.72	0.53	16.46	25.59	17.18	26.12
14	Maharashtra incl. Mumbai	1.17	2.18	29.81	67.39	30.98	69.57
15	Manipur	0.02	0.02	0.83	1.22	0.85	1.24
16	Meghalaya	0.03	0.02	1.13	0.68	1.16	0.70
17	Mizoram	0.01	0.01	0.45	0.64	0.46	0.65
18	Nagaland	0.02	0.02	0.86	0.62	0.88	0.64
19	Odisha	0.47	0.16	13.70	7.30	14.17	7.46
20	Punjab	0.29	0.49	8.34	16.38	8.63	16.87
21	Rajasthan	0.72	0.70	20.62	22.99	21.34	23.69
22	Sikkim	0.02	0.00	0.35	0.36	0.37	0.36
23	Tamil Nadu incl. Chennai	0.77	1.34	14.79	39.05	15.55	40.39
24	Telangana	0.51	0.54	10.97	19.41	11.49	19.95
25	Tripura	0.04	0.03	0.89	0.97	0.93	1.00
26	Uttar Pradesh (UPE+UPW)	3.13	1.44	48.96	53.27	52.09	54.72
27	Uttarakhand	0.10	0.12	3.98	4.55	4.08	4.67
28	West Bengal incl. Kolkata	1.20	0.91	20.76	34.91	21.96	35.82
<b>Union Territories</b>							
1	Andaman & Nicobar Islands	0.00	0.00	0.20	0.23	0.20	0.24
2	Chandigarh	0.00	0.01	0.04	0.79	0.04	0.81
3	Dadar & Nagar Haweli (incl. Daman & Diu)	0.00	0.01	0.23	0.35	0.24	0.36
4	Delhi	0.25	5.80	0.46	36.34	0.71	42.14
5	Jammu & Kashmir	0.13	0.08	3.88	4.90	4.02	4.98
6	Ladakh	0.00	0.00	0.17	0.03	0.17	0.04
7	Lakshdweep	0.03	0.00	0.02	0.00	0.05	0.00
8	Puduchery	0.01	0.01	0.24	0.42	0.24	0.42
	<b>Total</b>	<b>15.39</b>	<b>19.62</b>	<b>328.43</b>	<b>487.51</b>	<b>343.82</b>	<b>507.13</b>
	<b>Grand Total</b>	<b>35.01</b>		<b>815.93</b>		<b>850.95</b>	

**Table 1.31: Internet Subscriber Base and Market Share of top 10 Service Providers**

S.No	ISP	No. of Subscribers (In million)	Share (%)
1	Reliance Jio Infocomm Ltd	426.80	50.16
2	Bharti Airtel Ltd.	245.25	28.82
3	Vodafone Idea Ltd	135.16	15.88
4	Bharat Sanchar Nigam Ltd.	28.43	3.34
5	Atria Convergence Technologies Pvt. Ltd.	2.14	0.25
6	Hathway Cable And Datacom Limited	1.13	0.13
7	ONEOTT iNTERTAINMENT LIMITED	1.10	0.13
8	YOU Broadband India Ltd.	0.86	0.10
9	GTPL Broadband Pvt. Ltd.	0.78	0.09
10	Excitel Broadband Pvt. Ltd.	0.77	0.09
<b>Total of Top 10 ISPs</b>		<b>842.43</b>	<b>99</b>
<b>Others</b>		<b>8.52</b>	<b>1</b>
<b>Grand Total</b>		<b>850.95</b>	<b>100</b>

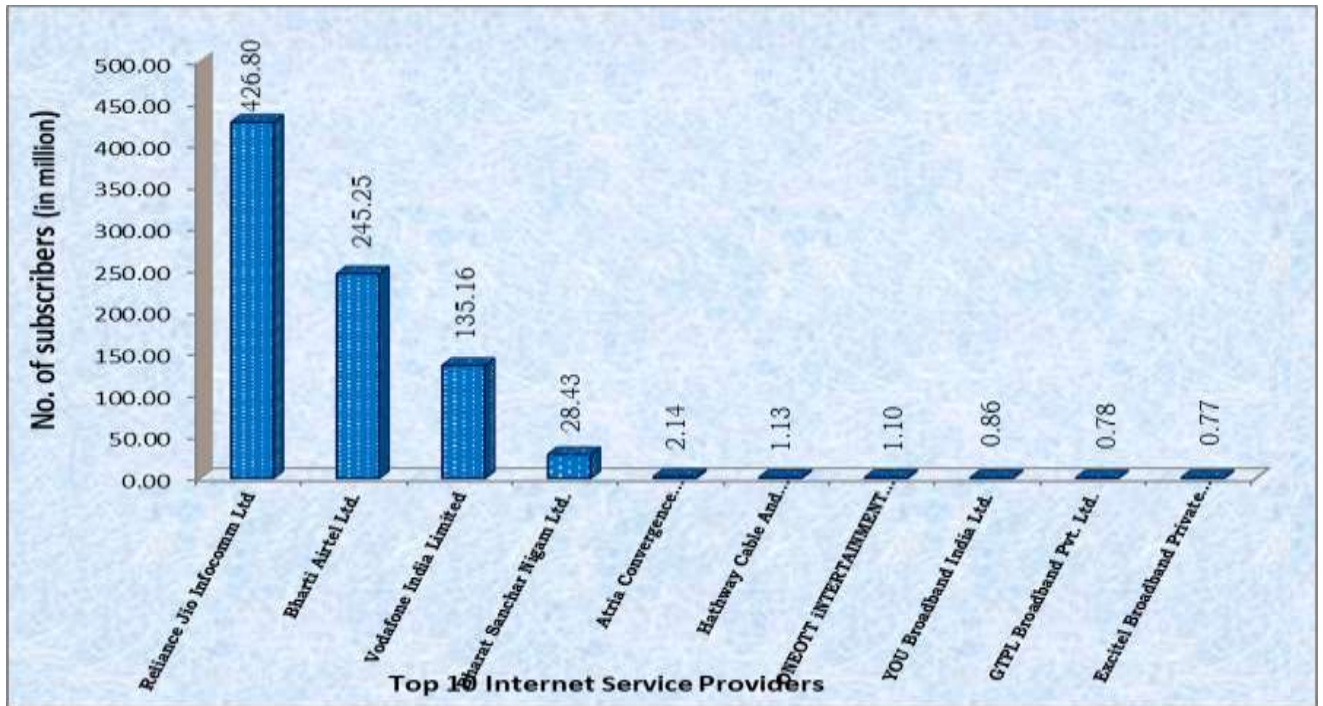
1.47 Reliance Jio holds the top position with 50.16% of market share of internet subscribers followed by Bharti Airtel Ltd with 28.82% at the QE Sep-22. M/s Vodafone Idea Ltd held the third position in respect of internet subscriber base with market share of 15.88%.

1.48 Out of total 860 internet service providers, top 10 Service Providers together hold 99% of total internet subscriber base at the QE Sep-22. Detailed table of number of internet subscriber base (broadband and narrowband) of all the service providers is available at **Annexure-1.5**.

1.49 The following chart depicts the internet subscriber base of top ten Internet Service Providers (ISPs) in the QE Sep-22.

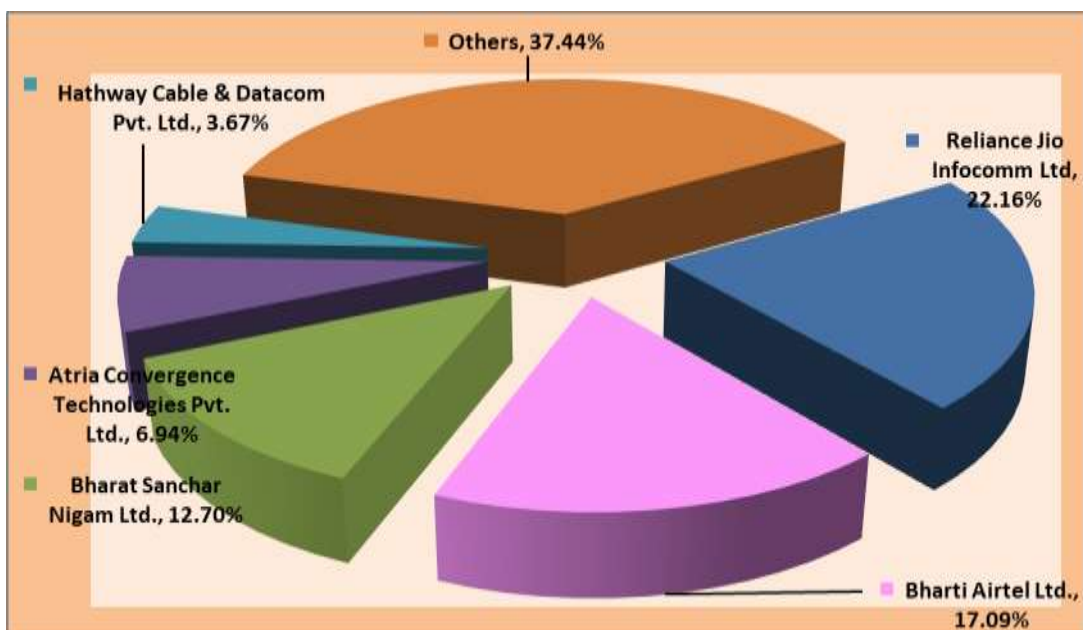


**Chart 1.17 : Subscriber base of top ten ISPs**



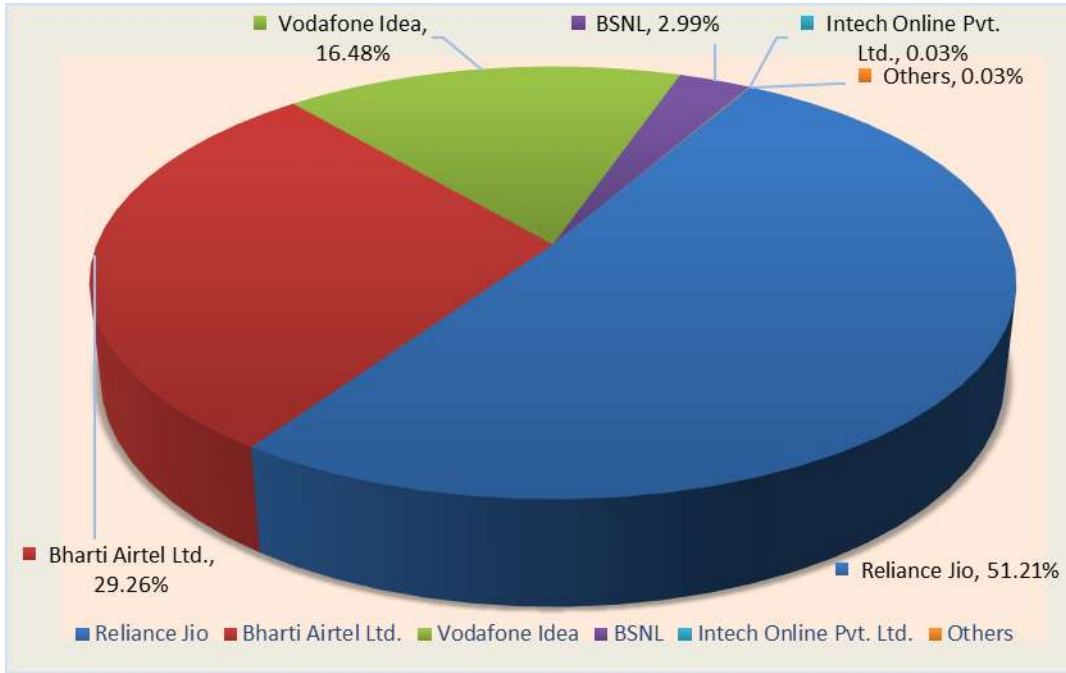
1.50 Out of total 30.82 million wired internet subscribers, Reliance Jio Infocomm Ltd holds 22.16% market share with 6.83 million subscribers, followed by Bharti with 5.27 million subscribers.

**Chart 1.18 : Composition of Wired Internet subscribers**

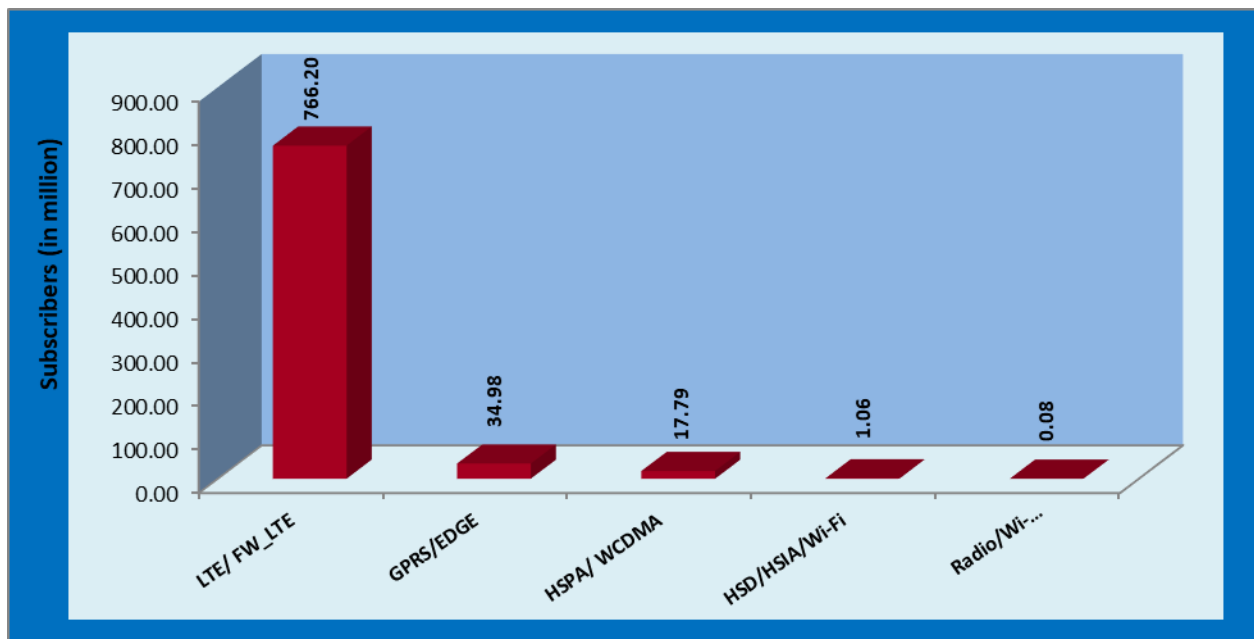


1.51 In wireless internet segment, Reliance Jio holds 51.21% market share with 419.97 million subscribers followed by Bharti Airtel Ltd with 29.26% and 239.99 million wireless internet subscribers at the QE Sep-22.

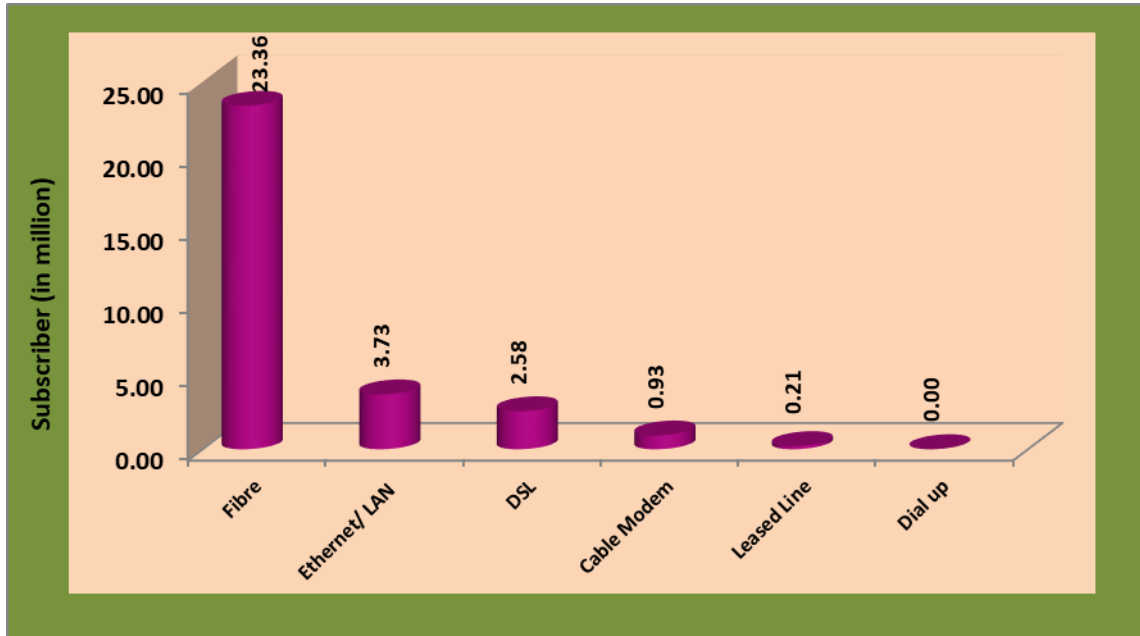
**Chart 1.19 : Composition of Wireless Internet subscription**



**Chart 1.20 : Technology trend for Wireless Internet Access**



**Chart 1.21: Technology trend for Wired Internet Access**



1.52 Top five service areas in terms of internet subscriptions (wired+wireless) are Maharashtra 72.56 million, U.P.(East) 67.55 million, Andhra Pradesh 63.88 million, Bihar 62.68 million and Madhya Pradesh 58.64 million.

**Table 1.32 : Service Area wise number of Internet Subscribers per 100 population at the end of Sep-22**

Service Area	Internet Subscribers (in million)			No. of Internet subscribers per 100 population		
	Rural	Urban	Total	Rural	Urban	Total
Andhra Pradesh	27.73	36.14	63.88	51.49	96.86	70.05
Assam	10.12	6.39	16.50	33.66	115.75	46.39
Bihar	39.86	22.82	62.68	28.56	88.88	37.93
Delhi	0.77	48.59	49.35	-	-	232.86
Gujarat	16.69	35.16	51.86	45.29	99.01	71.65
Haryana	8.03	10.21	18.24	45.93	81.14	60.67
Himachal Pradesh	3.80	2.35	6.15	56.79	306.55	82.52
Jammu & Kashmir	4.18	5.01	9.20	43.37	118.86	66.35
Karnataka	18.55	32.06	50.61	49.25	107.41	74.96
Kerala	14.68	16.57	31.25	160.78	62.16	87.33
Madhya Pradesh	24.36	34.28	58.64	29.30	103.74	50.47
Maharashtra	30.61	41.96	72.56	48.42	114.08	80.43
Mumbai	1.05	28.98	30.03			
North East	4.73	4.52	9.26	46.01	83.66	58.98
Orissa	14.17	7.46	21.63	39.45	89.69	48.89
Punjab	8.67	17.68	26.35	48.49	126.32	82.67
Rajasthan	21.34	23.69	45.02	36.01	110.59	55.82
Tamil Nadu	15.80	40.81	56.61	43.65	96.69	72.21
UP (East)	37.77	29.77	67.55	30.21	92.77	45.55
UP (West)	18.39	26.24	44.63			
Kolkata	1.27	16.88	18.15	35.62	99.21	58.97
West Bengal	21.26	19.54	40.80			
<b>Total</b>	<b>343.82</b>	<b>507.13</b>	<b>850.95</b>	<b>38.33</b>	<b>104.77</b>	<b>61.62</b>

\* Population data/projections are available state-wise only.

**Notes:**

- No. of total internet subscribers per 100 population is derived from the subscriber data provided by the operators and the and the projection of population from the 'Report of the Technical Group on Population Projections for India and States 2011 - 2036', which is available under the link [https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload\\_compressed\\_0.pdf](https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf)
- Data/information for Andhra Pradesh includes Telengana, Madhya Pradesh includes Chhatishgarh, Bihar includes Jharkhand, Maharashtra includes Goa, Uttar Pradesh includes Uttarakhand, West Bengal includes Sikkim and North-East includes Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland & Tripura states.

**Table 1.33 : State/UT wise number of Internet Subscribers per 100 population at the end of Sep-22**

S.N.	State(s)	Total Subscribers (In million)			Tele-density (%)		
		Rural	Urban	Total	Rural	Urban	Total
1	Andhra Pradesh	16.25	16.20	32.44	47.99	84.24	61.12
2	Arunachal Pradesh	0.46	0.33	0.79	39.40	83.48	50.65
3	Assam	10.12	6.39	16.50	33.66	115.78	46.39
4	Bihar	30.49	15.02	45.51	27.58	97.34	36.12
5	Chattisgarh	7.18	8.16	15.34	32.75	100.65	51.08
6	Goa	0.68	1.33	2.00	174.98	111.88	127.43
7	Gujarat	16.46	34.80	51.26	44.93	100.80	72.05
8	Haryana	8.08	13.29	21.37	46.21	105.65	71.09
9	Himachal Pradesh	3.80	2.35	6.15	56.79	306.54	82.51
10	Jharkhand	9.37	7.80	17.17	32.28	76.14	43.73
11	Karnataka	18.55	32.06	50.61	49.25	107.41	74.96
12	Kerala	14.63	16.56	31.19	160.19	62.31	87.33
13	Madhya Pradesh	17.18	26.12	43.30	28.06	104.75	50.26
14	Maharashtra	30.98	69.57	100.55	47.67	114.06	79.81
15	Manipur	0.85	1.24	2.09	39.17	119.79	65.22
16	Meghalaya	1.16	0.70	1.86	43.82	101.14	55.64
17	Mizoram	0.46	0.65	1.11	82.44	96.08	89.93
18	Nagaland	0.88	0.64	1.51	72.02	63.25	68.05
19	Odisha	14.17	7.46	21.63	39.45	89.69	48.89
20	Punjab	8.63	16.87	25.51	48.29	132.11	83.22
21	Rajasthan	21.34	23.69	45.03	36.01	110.60	55.82
22	Sikkim	0.37	0.36	0.74	104.35	110.04	107.09
23	Tamil Nadu incl. Chennai	15.55	40.39	55.94	43.57	98.35	72.88
24	Telangana	11.49	19.95	31.43	57.40	110.26	82.49
25	Tripura	0.93	1.00	1.93	36.69	62.64	46.74
26	Uttar Pradesh (UPE+UPW)	52.09	54.72	106.80	29.19	97.28	45.51
27	Uttarakhand	4.08	4.67	8.75	54.79	112.81	75.50
28	West Bengal incl. Kolkata	21.96	35.82	57.78	35.04	98.94	58.43
<b>Union Territories</b>							
1	Andaman & Nicobar Islands	0.20	0.24	0.44	88.52	134.96	108.91
2	Chandigarh	0.04	0.81	0.84	-	-	68.77
3	Dadar & Nagar Haweli (incl. Daman & Diu)	0.24	0.36	0.60	100.94	36.41	48.81
4	Delhi	0.71	42.14	42.85	-	-	202.19
5	Jammu & Kashmir	4.02	4.98	9.00	42.57	120.65	66.33
6	Ladakh	0.17	0.04	0.20	79.62	38.44	67.03
7	Lakshdweep	0.05	0.00	0.06	-	-	82.61
8	Puduchery	0.24	0.42	0.67	49.91	36.97	40.83
<b>Total</b>		<b>343.82</b>	<b>507.13</b>	<b>850.95</b>	<b>38.33</b>	<b>104.77</b>	<b>61.62</b>

## ISP Connectivity

1.53 The International Internet bandwidth owned by various service providers is reported to be 33,607 Gbps during the quarter ending Sep-22 as compared to 34,486 Gbps during the previous quarter.

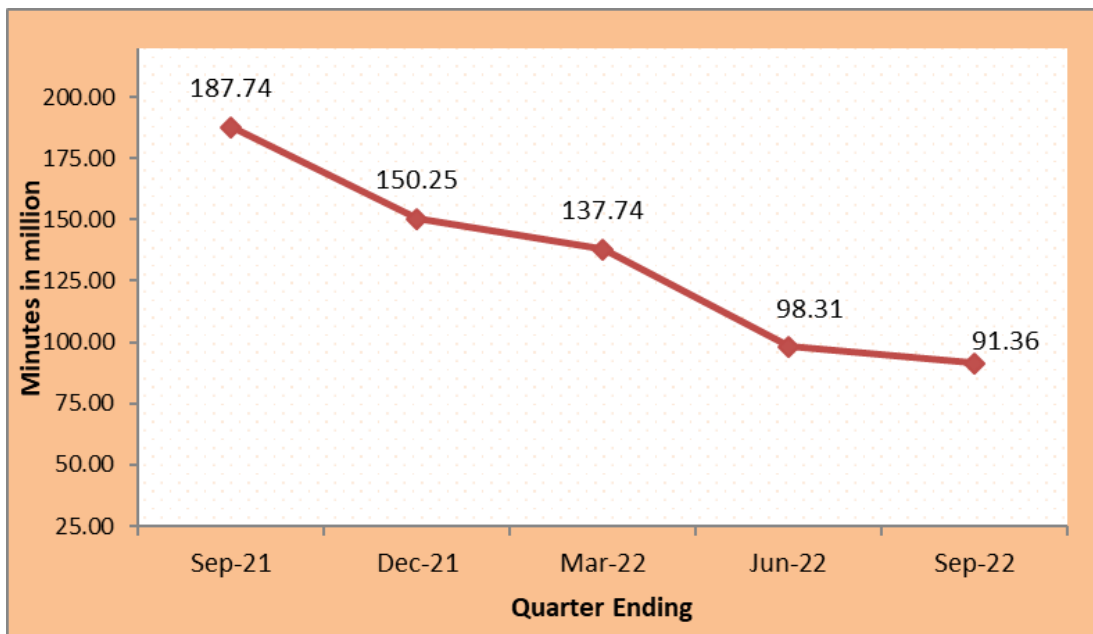
## Public WiFi Hotspot

1.54 A public Wi-Fi hotspot is an area where you can access Wi-Fi enabled internet. These areas are usually created in places such as malls, coffee shops, airports, stadiums, and parks to name a few. This report also includes information on Public Wi-Fi Hotspots, as on 30<sup>th</sup> September 2022, available at **Annexure-1.6**.

## Internet Telephony

1.55 As per the reports received from 13 service providers, providing Internet Telephony services, the total outgoing minutes of usage for internet telephony decreased from 98.31 million minutes at the end of Jun-22 to 91.36 million minutes at the end of Sep-22. List of Internet Telephony Service providers is available at **Annexure-1.7**.

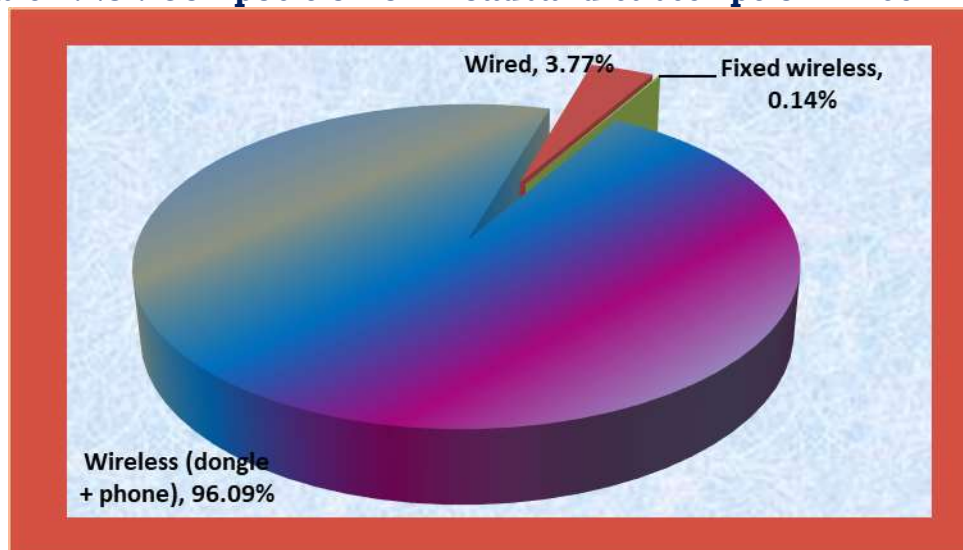
**Chart 1.22 : Trends in MOU for Internet Telephony**



## Part-II : Broadband Service (Download Speed >=512 Kbps)

- 1.56 The total number of broadband subscribers increased from 800.94 million at the end of Jun-22 to 815.93 million at the end of Sep-22. Out of which number of wired broadband subscribers are 30.79 million and wireless broadband subscribers are 785.14 million.
- 1.57 Top five broadband (wired+wireless) service providers in term of subscribers are Reliance Jio 426.80 million, Bharti Airtel 225.09 million, Vodafone Idea Ltd 123.20 million, BSNL 25.62 million and Atria Convergence 2.14 million.
- 1.58 In wired broadband segment, Reliance Jio Infocomm Ltd. holds 22.18% market share with 6.83 million subscribers followed by Bharti Airtel Ltd. with 5.27 million subscribers in QE Sep-22.
- 1.59 In wireless broadband segment, Reliance Jio holds 53.49% market share with 419.97 million subscribers followed by Bharti Airtel Ltd 28% with 219.82 million subscribers in QE Sep-22.
- 1.60 Top five service areas in respect of broadband subscriptions at Q.E. Sep-22 are Maharashtra 70.34 million, U.P.-East 64.34 million, Andhra Pradesh 61.35 million, Bihar 60.13 million and Madhya Pradesh 57.06 million.

**Chart 1.23 : Composition of Broadband subscription – Technology wise**



1.61 Mobile Device Users (dongle+phone) constitute 96.09% of total broadband subscribers at the end of Sep-22.

**Part-III : Narrowband Service (Download Speed <512 Kbps)**

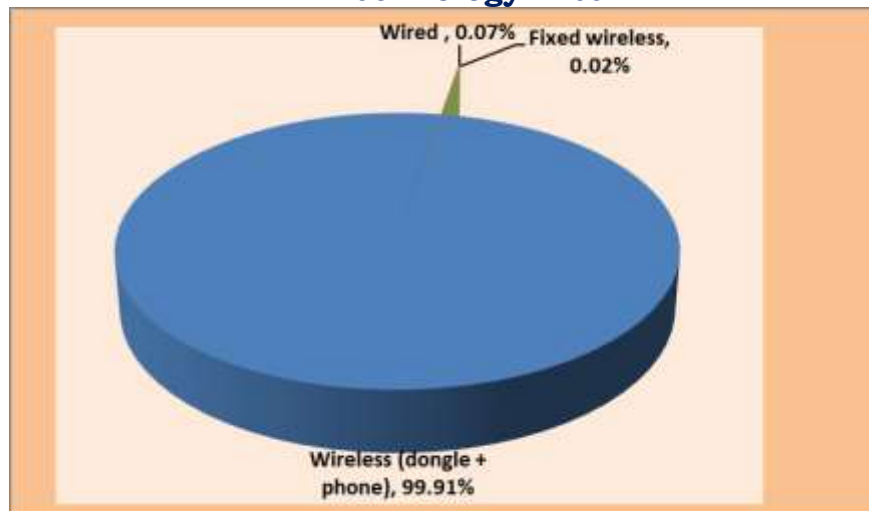
1.62 Total number of narrowband subscribers decreased from 35.92 million at the end of Jun-22 to 35.01 million at the end of Sep-22 with the quarterly decline rate of 2.52%. Out of 35.01 million narrowband subscribers, Wired Narrowband subscribers are 0.02 million and Wireless Narrowband subscribers are 34.99 million.

1.63 The top five narrowband (wired+wireless) service providers in term of subscriber base are Bharti Airtel 20.16 million, Vodafone Idea Ltd 11.96 million, BSNL 2.81 million, MTNL 0.05 million and YOU Broadband India Ltd. 0.01 million at the end of Sep-22.

1.64 In wired narrowband segment, YOU Broadband India Ltd. hold 61.69% market share with 0.014 million subscribers followed by TENG Network solution Pvt. Ltd. with 0.002 million subscribers.

1.65 In wireless narrowband segment, Bharti Airtel holds 57.62% market share with 20.16 million subscribers followed by Vodafone Idea Ltd with 11.96 million subscribers.

**Chart 1.24 : Composition of Narrowband subscription – Technology wise**





## Section E : Other Value Added Services - PMRTS & VSAT

### Public Mobile Radio Trunk Services (PMRTS)

1.66 The subscriber base of PMRTS decreased from 66,048 at the end of Jun-22 to 65,823 at the end of Sep-22 with quarterly decline rate of 0.34%.

**Table 1.34 : PMRTS Subscriber base - Service Provider wise**

Sl. No	Name of the Service Provider	Subscriber Base as on 30.06.2022	Subscriber Base as on 30.09.2022	Net Addition	% Growth in subscribers in QE Sep-22
1	Arya Omnitalk Radio Trunking Services Pvt. Ltd.	54,004	53,795	-209	-0.39
2	Procall Ltd.	4,178	4,218	40	0.96
3	Quick Call	1,973	1,895	-78	-3.95
4	Inative Networks Pvt Ltd	1,820	1,825	5	0.27
5	Smartalk Pvt Ltd	1,601	1,570	-31	-1.94
6	Bhilwara Telenet Services Pvt Ltd	876	882	6	0.68
7	Wiwonet Solutions Pvt Ltd	1,046	1,046	0	0.00
8	Airtalk Solutions & Services Pvt Ltd	550	592	42	7.64
<b>Total</b>		<b>66,048</b>	<b>65,823</b>	<b>-225</b>	<b>-0.34</b>

1.67 Detailed table on Service Area wise subscriber base of PMRTS as on 30<sup>th</sup> September, 2022 is available at **Annexure-1.8**.

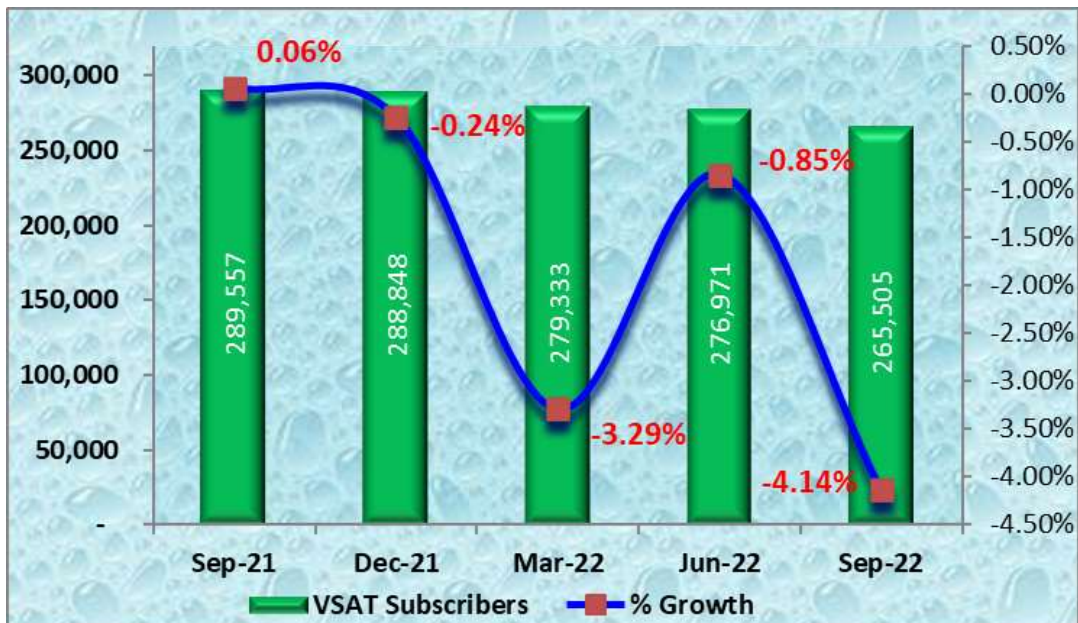
**Chart 1.25 : Number of PMRTS subscribers & Rate of Growth (%)**



**Very Small Aperture Terminal (VSAT)**

1.68 The total number of VSAT subscribers decreased from 2,76,971 at the end of Jun-22 to 2,65,505 at the end of Sep-22. Net decrease during the quarter has been 11,466 at the decline rate of 4.14%.

**Chart 1.26 : Number of VSAT Subscribers & Rate of Growth (%)**



**Table 1.35 : VSAT Service Providers currently providing service & their subscriber base**

Sr. No	Name of Service Providers	Subscriber base at the Quarter ending		Net Addition	%age Growth	Market Share (%) Sep-22
		Jun-22	Sep-22			
1	Hughes Communications Ltd.	192,889	182,003	-10,886	-5.64	68.55
2	Nelco Ltd.	74,782	74,441	-341	-0.46	28.04
3	BSNL	6,577	6,387	-190	-2.89	2.41
4	HCL Comnet	63	0	-63	-100%	0.00
5	Infotel Satcom	2,610	2,624	14	0.54	0.99
6	Cloudcast Digital (earthwhile Planetcast Media Services)	50	50	0	0.00	0.02
<b>Total</b>		<b>2,76,971</b>	<b>2,65,505</b>	<b>-11,466</b>	<b>-4.13</b>	<b>100</b>

1.69 Hughes Communications Ltd. is the market leader having 182,003 subscribers with market share of 68.55% followed by Nelco Ltd. having 74,441 subscribers with market share of 28.04% at the end of Sep-22.

1.70 In term of net addition except Infotel Satcom all other service providers have registered decline in their VSAT subscribers during this quarter.

# **Chapter 2 :**

# **Revenue and Usage**

# **Wireless Services**

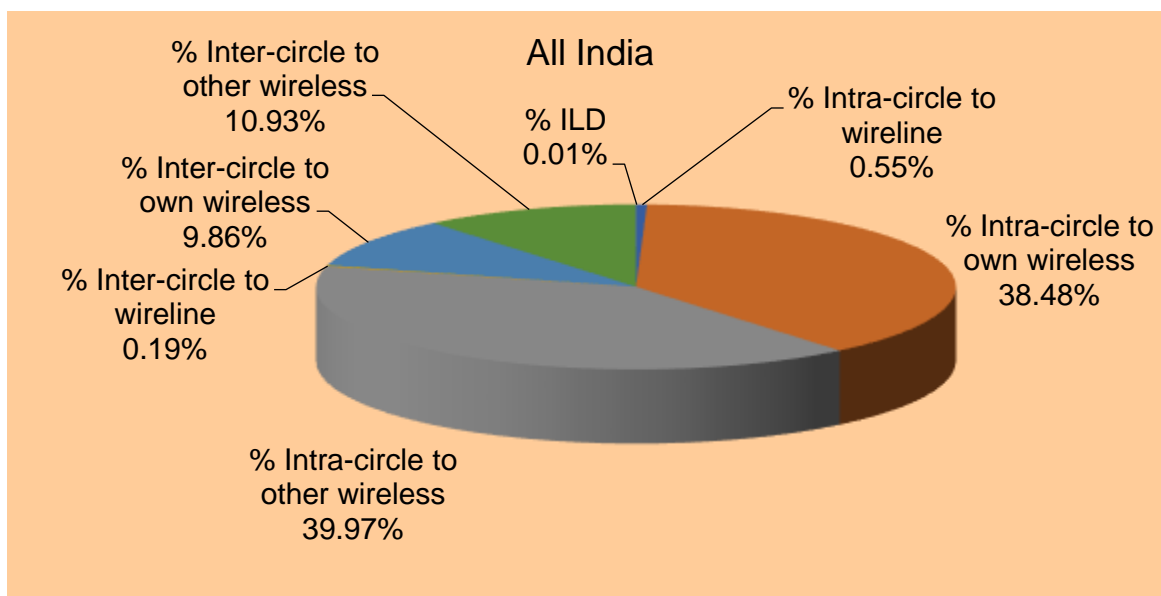
- 
- For all the parameters, Metros indicate data for Delhi, Mumbai & Kolkata. Data for Chennai service area has been included in Circle A, as part of TN.
  - ARPU arrived after adjusting interconnect usage charges and roaming settlement charges.
  - The data contained in this section covers the licensees, who have been providing service during the entire period from 1<sup>st</sup> July, 2022 to 30<sup>th</sup> September, 2022 in the various service areas.

**Table 2.1: Key Indicators – Wireless Services**

Parameter	Sep-22	Jun-22	Sep-21	QoQ %age change	YoY %age change
Share of Prepaid (%)	92.43%	92.74%	94.21%	-0.33%	-1.89%
Incoming MOU per subscriber per month	447.31	456.93	413.28	-2.11%	8.24%
Outgoing MOU per subscriber per month	446.74	456.64	413.66	-2.17%	8.00%
No. of Outgoing SMS per subscriber per month	12.79	14.31	14.71	-10.63%	-13.10%
Average Revenue Per User (ARPU) per month (Rs.)	137.31	133.55	108.16	2.81%	26.96%

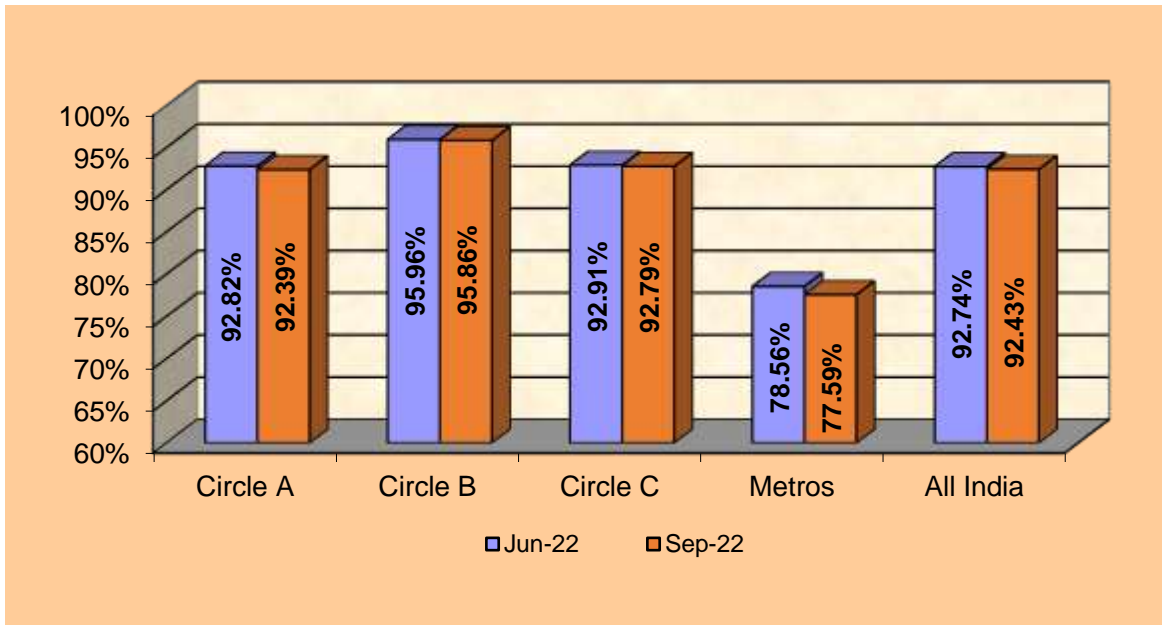
2.1 The following chart presents % break-up of outgoing minutes from Home Service Area (HSA) in the QE Sep-22.

**Chart 2.1: % Break-up of Outgoing minutes from Home Service Area (HSA)**



2.2 The following chart presents pre-paid subscribers as a % of total subscribers as on the last day of the respective quarters for various categories of circles.

**Chart 2.2: Proportion of prepaid subscribers**



*Note: Based on subscriber figures as on the last day of the quarter.*

- 2.3 The Market share of pre-paid segment has decreased from 92.74% at the end of June-2022 to 92.43% at the end of September- 2022.
- 2.4 The ARPU per month (all India blended) increased from Rs. 133.55 in Q.E. June- 2022 to Rs. 137.31 in Q.E. September- 2022 with quarterly growth rate of 2.81%. Year-on-Year basis, ARPU per month increased by 26.96% in this quarter. The ARPU for private service providers increased by 2.27% from Rs. 142.88 in Q.E. June-2022 to Rs.146.13 in Q.E. September-2022 and for PSUs (BSNL/MTNL) increased by 11.83% from Rs. 50.97 in Q.E. June-2022 to Rs. 57.00 in Q.E. September-2022
- 2.5 The ARPU per month for the pre-paid segment is Rs. 132.91 and the ARPU per month for the post-paid segment is Rs. 192.50 for Q.E. September- 2022.
- 2.6 The following table presents the ARPU per month for various categories of circles and various platforms for payment viz. post-paid and pre-paid.

**Table 2.2: Monthly ARPU – Wireless Services in QE Sep-22**

Circle Category	ARPU per month (in Rs.)		
	Post-paid	Pre-paid	Blended
Circle A	231.80	154.37	160.04
Circle B	173.05	122.73	124.79
Circle C	177.33	127.85	131.39
Metros	170.21	107.09	120.90
<b>All India</b>	<b>192.50</b>	<b>132.91</b>	<b>137.31</b>
All private SPs	196.53	141.88	146.13
BSNL/MTNL	118.44	54.54	57.00

2.7 The following table presents the composition of ARPU per month for QE Sep-22.

**Table 2.3: Composition of ARPU per month - Wireless Services**

S. No.	Item	Revenue (excl. service tax) per subscriber per month (in Rs.)	Share of total revenue from subscribers
<b>1</b>	<b>Usage from Home Service Area</b>		
1.1.	Rental Revenue	0.80	0.6%
1.2.	Revenue from calls	14.90	10.5%
1.3.	Revenue from SMS	0.23	0.2%
1.4.	Revenue from data usage	121.41	85.2%
1.5.	Revenue from other VAS	1.52	1.1%
1.6.	Other revenue	2.48	1.7%
<b>2</b>	<b>Usage outside Home Service Area</b>		
2.1.	Revenue from out-roamers	1.19	0.8%
<b>3</b>	<b>Total revenue from subscribers (1+2)</b>	<b>142.53</b>	<b>100%</b>
<b>4</b>	<b>Net inter-operator settlement charges receivable *</b>	<b>-5.22</b>	
<b>5</b>	<b>Net Revenue (ARPU) per month (3+4)</b>	<b>137.31</b>	

\* includes Interconnect Usages Charges and roaming settlement charges

#There is a difference in ARPU calculated by TRAI and the figures published by TSPs in their financial statements. This is because each TSP has a different methodology to calculate the ARPU. For example, one of the TSPs calculated ARPU by dividing the service revenue by the average number of subscribers during the quarter. Another TSP calculated ARPU by dividing operating revenue as given in the P&L account for the quarter by the average subscriber base for the current and previous quarters. Further, TRAI calculates ARPU per month as Quarterly Revenue adjusted for interconnect usage charges and roaming settlement charges divided by average subscribers during the quarter for its own regulatory analysis. Therefore, the different methods result in a TRAI ARPU figure being less than what a TSP would declare in its quarterly financial results or presents to investors/Credit rating agencies.

2.8 From the above table, it may be seen that the net inter-operator settlement charges payable (Rs.5.22) accounted for 3.66% of the total revenue from subscribers in the Q.E. September- 2022.

2.9 On all-India average, the overall MOU per subscriber per month decreased by 2.14% from 914 in Q.E. June-2022 to 894 in Q.E. September-2022.

2.10 The following table presents the total MOU (usage from, and outside, the home service area) per subscriber per month for various categories of circles and various platforms for payment viz. post-paid and pre-paid during Q.E. Sep-22.

**Table 2.4: MOU per subscriber per month - QE Sep-22**

Circle category	MOU per subscriber per month								
	Post-paid			Pre-paid			Blended		
	Outgoing MOU	Incoming MOU	Total MOU	Outgoing MOU	Incoming MOU	Total MOU	Outgoing MOU	Incoming MOU	Total MOU
Circle A	284	264	548	412	408	820	403	397	800
Circle B	349	334	683	448	456	905	444	451	896
Circle C	423	380	802	565	590	1155	555	575	1130
Metro	198	174	371	500	458	958	434	396	830
<b>All India</b>	<b>295</b>	<b>272</b>	<b>567</b>	<b>459</b>	<b>461</b>	<b>920</b>	<b>447</b>	<b>447</b>	<b>894</b>

2.11 overall ratio of incoming MOUs and outgoing MOUs for the Q.E. Sep- 2022 is 50:50.

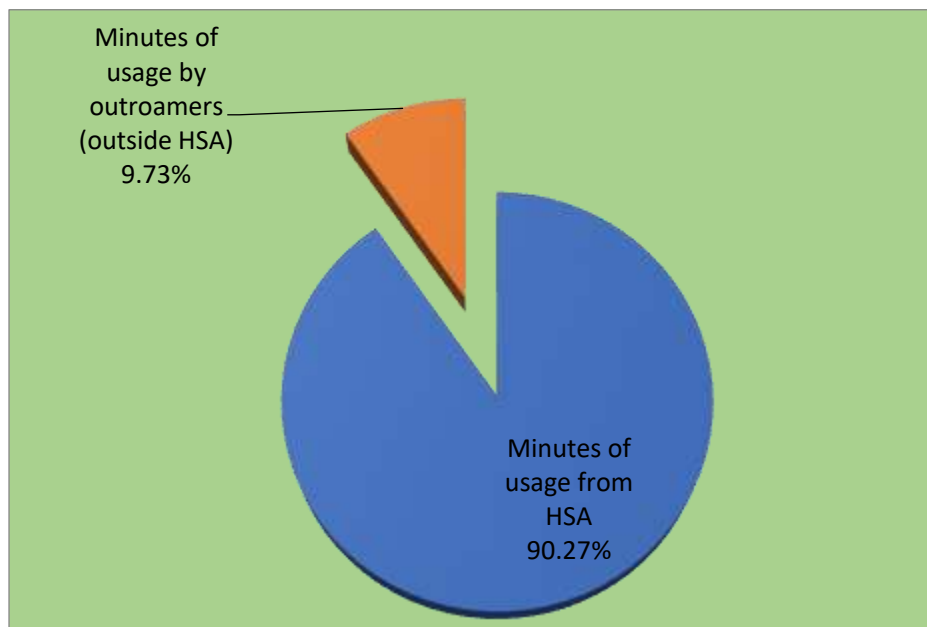
2.12 Average number of Outgoing SMS per subscriber per month is 13 in Q.E. September-2022. The following table presents the outgoing SMS usage (usage from and outside, the home service area) per subscriber per month for various categories of circles and various categories of subscribers viz. post-paid and pre-paid during Q.E. September-2022.



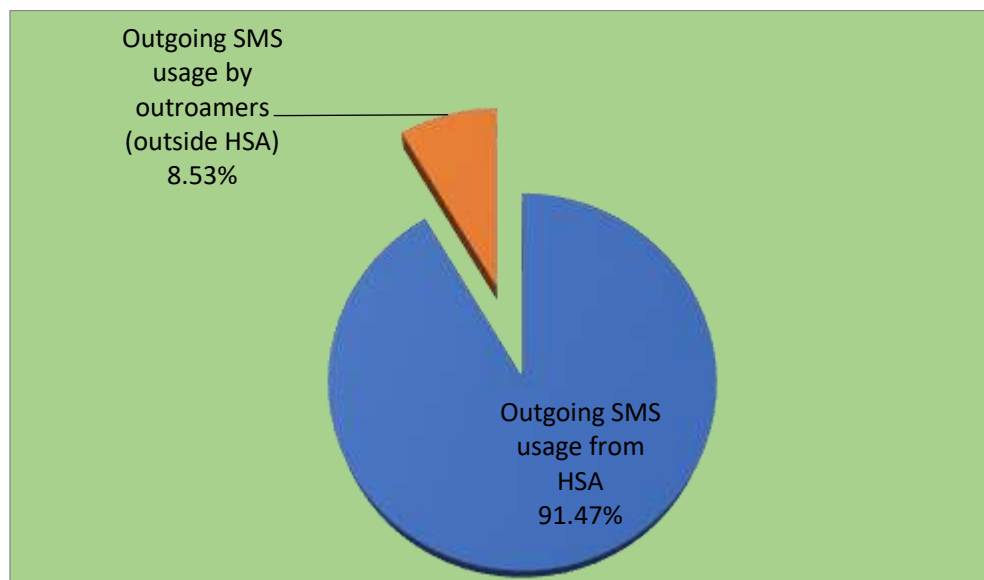
**Table 2.5: No. of Outgoing SMS per subscriber per month during QE Sep-22**

Circle category	Outgoing SMS per subscriber per month		
	Post-paid	Pre-paid	Blended
Circle A	21	13	14
Circle B	11	11	11
Circle C	15	16	16
Metro	10	11	11
<b>All India</b>	<b>15</b>	<b>13</b>	<b>13</b>

**Chart 2.3 : Minutes of Usage by Out-roamers as a % of Total Minutes of Usage during Q.E. Sep-2022**



**Chart 2.4: Outgoing SMS Usage by Out-roamers as a % of Total No. of Outgoing SMS Usage during Q.E. Sep-2022**



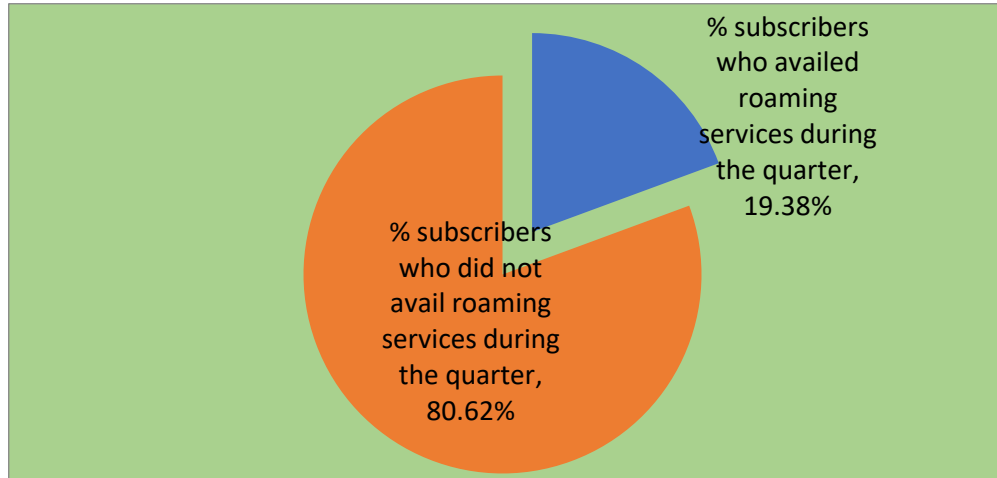
2.13 The following table presents the percentage break-up of outgoing minutes of usage from home service area between various categories of termination networks in the Q.E. Sep-22.

**Table 2.6: % Break-up of Outgoing minutes from Home Service Area (HSA) during the Q.E. Sep-2022**

Category	% Intra-circle to wireline	% Intra-circle to own wireless	% Intra-circle to other wireless	% Inter-circle to wireline	% Inter-circle to own wireless	% Inter-circle to other wireless	% ILD
Circle A	0.55	40.80	44.58	0.16	6.55	7.34	0.02
Circle B	0.53	37.57	40.93	0.17	9.71	11.08	0.01
Circle C	0.44	41.34	34.03	0.19	12.05	11.95	0.00
Metros	0.90	28.06	31.91	0.37	17.75	20.98	0.04
<b>All India</b>	<b>0.55</b>	<b>38.48</b>	<b>39.97</b>	<b>0.19</b>	<b>9.86</b>	<b>10.93</b>	<b>0.01</b>

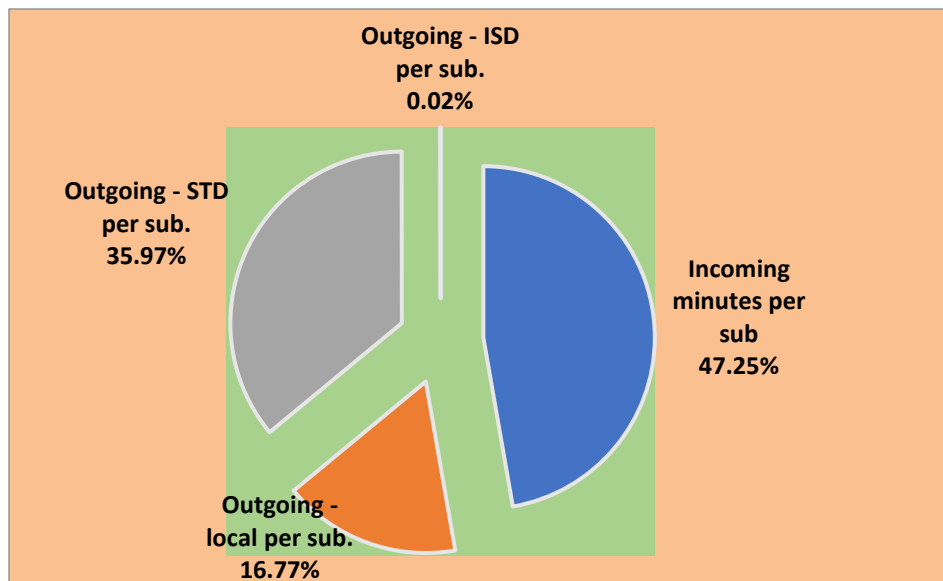
2.14 The following chart presents the share of outroamers (who had availed roaming services) as a percentage of total subscribers during Q.E. Sep-22.

**Chart 2.5: % Share of outroamers as a percentage of total subscribers during Q.E. Sep-2022**



2.15 The usage pattern of outroamers i.e. usage from outside the home service area shows that incoming minutes accounts for 47.25% of the total minutes of usage by outroamers in Q.E. September- 2022 as against 47.26% in the Q.E. June-2022. The chart given below presents the break-up of minutes of usage of outroamers.

**Chart 2.6: % Break-up of minutes of usage (MOU) of out-roamers (usage from outside the Home Service Area)**



2.16 The tariff plans are of bundled nature and the trade-off is generally between monthly fixed charges and variable (call) charges. Therefore, average revenue per outgoing minute of usage from Home Service Area (HSA) as defined below would be a realistic indicator of average tariff levels.

Average Revenue per Outgoing Minute of usage from HSA

$$= \frac{\text{Revenue from Calls}}{\text{No. of outgoing minutes from HSA}}$$

**Table 2.7: Average revenue per outgoing minute from HSA in QE Sep-22**

**(In Rs. per minute)**

<b>Circle Category</b>	<b>Postpaid</b>	<b>Prepaid</b>	<b>Blended</b>
Circle A	0.05	0.04	0.04
Circle B	0.03	0.04	0.04
Circle C	0.01	0.03	0.03
Metros	0.06	0.03	0.03
<b>All India</b>	<b>0.03</b>	<b>0.04</b>	<b>0.04</b>

2.17 All India average revenue per outgoing minute is constant at 0.04 in Q.E. September and Q.E. June- 2022.

**Table 2.8: Trends of Key Parameters - Wireless Services**

<b>Parameter</b>	<b>Sep-21</b>	<b>Dec-21</b>	<b>Mar-22</b>	<b>Jun-22</b>	<b>Sep-22</b>
<b>1. ARPU (Rs. Per month)</b>	108.16	114.16	127.17	133.55	137.31
<b>2. Average revenue Realization per subscriber per GB wireless data (in Rs.)</b>	9.53	9.91	10.47	10.29	9.94
<b>3. MOU per subscriber per month</b>	827	854	955	914	894
<b>4. Outgoing MOU per subscriber per month</b>					
4.1 Local (Intra-circle)	312	319	332	342	331
4.2 NLD (inter-circle)	102	108	176	115	115
4.3 ILD	0.05	0.05	0.05	0.05	0.05
<b>5. Average no. of Outgoing SMS per subscriber per month</b>	15	14	13	14	13
<b>6. Average revenue per outgoing minute from HSA (in Rs.)</b>	0.04	0.04	0.03	0.04	0.04

2.18 Service Area wise statistics are available at **Annexure-2.1**.

# **Chapter 3 :**

# **Financial Data of Telecom Service Sector**

**Table 3.1: Gross Revenue (GR), Applicable Gross Revenue (ApGR), Adjusted Gross Revenue (AGR), License Fee (LF) & Spectrum Charges**

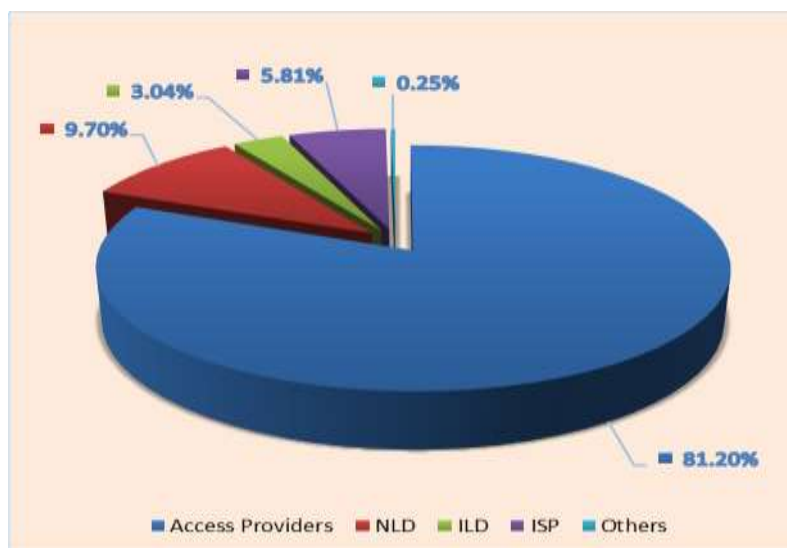
Particulars	QE Sep-21 (Rs. in Crore)	QE Jun-22 (Rs. in Crore)	QE Sep-22 (Rs. in Crore)	Q-O-Q % Change	Y-O-Y % Change
Gross Revenue (GR)	67,300	76,408	83,767	9.63	24.47
Applicable Gross Revenue (ApGR)	--	73,795	74,713	1.24	--
Adjusted Gross Revenue (AGR)	53,510	60,530	61,981	2.40	15.83
Pass Through Charges (PTC)	13,790	13,415	13,445	0.22	-2.50
License Fee (LF)	4,271	4,844	4,921	1.60	15.23
Spectrum Usage Charges (SUC)	1,741	1,999	1,403	-29.84	-19.42

- 3.1 Gross Revenue (GR) increased by 9.63%, Applicable Gross Revenue (ApGR) increased by 1.24% and Adjusted Gross Revenue (AGR) increased by 2.40% during QE Sep-22. On YoY basis GR increased by 24.47% and AGR increased by 15.83% in QE Sep-22.
- 3.2 Pass through charges increased by 0.22% in QE Sep-22, however on YoY basis it decreased by 2.50%.
- 3.3 Pass-through charges as a percentage of Gross Revenue are 16.05% in QE Sep-22 as against 17.56% in the previous quarter.

**Table 3.2: Service-wise GR, ApGR, AGR, LF, SUC and PTC for QE Sep-22  
(in Rs. Crore)**

Service	GR	ApGR	AGR	LF	SUC	PTC
<b>Access Providers</b>	68,228.11	50,327.10	60,636.94	4,026.71	1,398.10	10,474.14
<b>NLD</b>	6,882.46	6,014.59	5,954.23	481.19	-	181.31
<b>ILD</b>	3,592.75	1,882.61	3,403.26	150.61	-	1,613.58
<b>ISP</b>	4,888.19	3,600.99	4,568.13	251.59	-	1,168.94
<b>Others</b>	175.34	155.48	150.44	10.86	4.50	6.58
<b>Total</b>	<b>83,766.85</b>	<b>61,980.77</b>	<b>74,712.99</b>	<b>4,920.96</b>	<b>1,402.60</b>	<b>13,444.56</b>

**Chart 3.1: Composition of Adjusted Gross Revenue**



3.4 Access services contributed 81.20% of the total Adjusted Gross Revenue of telecom services. In Access services, Gross Revenue (GR), Applicable Gross Revenue (ApGR), Adjusted Gross Revenue (AGR), License Fee (LF), Spectrum Usage (SUC)<sup>9</sup> and Pass Through Charges (PTC) increased by 12.34%, 2.51%, 2.71%, 2.71%, -29.92%, and 2.03% respectively in QE Sep-22.

**Table 3.3: Access Services - Service Provider wise Adjusted Gross Revenue**  
(Rs.in Crore)

Service Provider	AGR			Q-o-Q Growth (%)	Y-o-Y Growth (%)
	(Rs. in Crore)				
	Q.E. Sept. 2021	Q.E. June. 2022	Q.E. Sept. 2022		
Reliance Jio	18467.47	21515.88	22192.19	3.14	20.17
Bharti Airtel	14730.85	17140.56	17893.47	4.39	21.47
Vodafone Idea	6337.58	7356.54	7478.73	1.66	18.01
BSNL	1934.73	2177.95	1929.24	-11.42	-0.28
Tata	554.33	533.01	571.83	7.28	3.16
MTNL	331.56	213.67	201.67	-5.62	-39.18
Reliance	53.40	43.11	53.40	23.86	0.00
Quadrant	2.22	6.41	8.82	37.64	297.33

<sup>9</sup> Spectrum Usage Charge is payable by the licensees providing mobile access services, as a percentage of their Adjusted Gross Revenue (AGR).

(Source – DoT License Agreement)



Service Provider	AGR (Rs. in Crore)			Q-o-Q Growth (%)	Y-o-Y Growth (%)
	Q.E. Sept. 2021	Q.E. June. 2022	Q.E. Sept. 2022		
	Tata Play Broadband	0.00	0.60		
Shyam Spectra	0.10	0.10	0.04	-59.94	-59.94
GPX Services	0.00	0.00	0.75	--	--
V-Con Mobile & Infra	9.57	11.39	-4.38	- 138.43	-145.73
<b>Total</b>	<b>42421.82</b>	<b>48999.24</b>	<b>50327.10</b>		

3.5 Public Sector Undertakings' share in the Access AGR of telecom services is 4.23% in the QE Sep-22.

**Table 3.4: Category-wise share in Adjusted Gross Revenue (AGR) of Access Services**

Category	AGR of Access Services for QE Sep-22 (in crore)	%age share of AGR
Metro	5,411.77	10.75
A	19,159.14	38.07
B	18,428.17	36.62
C	7,328.02	14.56
<b>Total</b>	<b>50,327.10</b>	<b>100</b>

**Notes: -**

1. Figures are un-audited and as submitted by the TSPs.
2. A copy of quarterly Statement(s) of Revenue and Licence Fee and Spectrum Charges filed with the licensor(DoT) is submitted by Telecom Service Providers to TRAI in reference to TRAI's Order No.14-11/2009-FA, dated 9th August, 2010.
3. The figures have been re-grouped wherever considered necessary for analysis purpose.
4. Percentage of contribution of Five TSPs of Public Sector (BSNL, MTNL, Rail Tel, Power Grid, Oil India and Bharat Broadband) to AGR in NLD Service and two TSPs of Public Sector (BSNL/MTNL) in Access Services and BSNL in ILD Services.
5. For all the parameters metros indicate data for Delhi, Mumbai and Kolkata. Data for Chennai Service Area has been included as part of Tamil Nadu

# **Chapter 4 : Quality of Service (QoS)**

## Section A: Quality of Service of Cellular Mobile Service Providers

**Table 4.1: QoS Summary - Cellular Mobile Service**

**Summary of Performance of Service providers against identified parameters**

S. No.	Parameters	Benchmark	Performance in respect of UASL/CMTS Licensees for the Parameters and Benchmarks			
			For Quarter Ending June, 2022		For Quarter Ending Sept, 2022	
			Out Of 88 (Nos.)	Out Of 88 (%)	Out Of 88 (Nos.)	Out Of 88 (%)
<b>I.</b>	<b>Network Related Parameters</b>					
1	Network Availability					
(i)	BS Accumulated down-time (not available for service) (%age)	≤ 2%	0	0.00%	0	0.00%
(ii)	Worst affected BSs due to down-time (%age)	≤ 2%	0	0.00%	0	0.00%
2	Connection Establishment (Accessibility)					
(i)	Call Set-up Success Rate and Session Establishment Success Rate for Circuit Switched Voice or VoLTE as applicable (within licensee's own network)	≥ 95%	0	0.00%	0	0.00%
(ii)	SDCCH/ Paging Channel Congestion/ RRC Congestion (% age)	≤ 1%	0	0.00%	0	0.00%
(iii)	TCH, RAB and E-RAB congestion (%age)	≤ 2%	0	0.00%	0	0.00%
3	Connection Maintenance (Retain ability)					
(i)	Network QoS DCR Spatial Distribution Measure [Network_QSD (90,90)]	≤ 2%	0	0.00%	0	0.00%
(ii)	Network QoS DCR Temporal Distribution Measure [Network_QTD (97,90)]	≤ 3%	0	0.00%	0	0.00%
4	Connections with good voice quality, Circuit Switched Voice Quality and VoLTE quality	≥ 95%	0	0.00%	0	0.00%
5	Point of Interconnection (POI) Congestion (No. of POIs not meeting the benchmark) (Averaged over a period of quarter)	≤ 0.5%	0	0.00%	0	0.00%

6	Down Link (DL) Packet Drop Rate or DL-PDR	≤ 2%	0	0.00%	0	0.00%
7	Up Link (UL) Packet Drop Rate or UL-PDR	≤ 2%	0	0.00%	0	0.00%
<b>II. Customer Service Quality Parameters</b>						
8	Metering and Billing					
(i)	Metering and billing credibility - post paid	≤ 0.1%	0	0.00%	0	0.00%
(ii)	Metering and billing credibility – prepaid	≤ 0.1%	0	0.00%	0	0.00%
(iii)	Resolution of billing/charging/ validity complaints	98% within 4 weeks	0	0.00%	0	0.00%
	Resolution of billing/charging/ validity complaints	100% within 6 weeks	0	0.00%	0	0.00%
(iv)	Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution of complaints	within 1 week of resolution of complaint	0	0.00%	0	0.00%
9	Response time to the customer for assistance					
(i)	Accessibility of call centre/ customer care	≥ 95%	2	2.27%	1	1.14%
(ii)	% age of calls answered by the operators (voice to voice) within 90 seconds	≥ 95%	8	9.09%	23	26.14%
10	Termination / closure of service					
(i)	Termination / Closure of service	≤ 7 days	0	0.00%	0	0.00%
(ii)	Time taken for refund of deposits after closures	100% within 60 days	0	0.00%	0	0.00%

#### 4.1 Comparison of Performance with the last quarter: -

The performance has improved in this quarter as compared to the previous quarter in respect of the following parameters: -

- i. Accessibility of call centre/customer care ≥ 95%

The performance has deteriorated in this quarter, as compared to the previous quarter, in respect of the following parameters: -

- i. %age of calls answered by the operators (voice to voice) within 90 Seconds

**Table 4.2: Parameter wise analysis of non-compliance of service providers**

<b>Parameter</b>	<b>Benchmark</b>	<b>Service Provider</b>	<b>Service Area</b>	<b>Performance in QE September 2022 (in %)</b>
Accessibility of call centre/ customer care	=> 95%	VIL	Kerala	94.98%
Percentage of calls answered by the operators (voice to voice) within 90 seconds	=> 95%	AIRTEL	Andhra Pradesh	94.89%
			Assam	90.31%
			Bihar	92.76%
			Delhi	92.91%
			Gujarat	90.42%
			Haryana	93.53%
			Himachal Pradesh	93.60%
			Jammu & Kashmir	94.47%
			Karnataka	94.97%
			Kolkata	85.15%
			Maharashtra	93.42%
			Mumbai	93.16%
			North East	86.57%
			Odisha	93.97%
			Punjab	92.62%
			Rajasthan	94.14%
			Uttar Pradesh (East)	93.86%
	Uttar Pradesh (West)	93.59%		
	West Bengal	80.98%		
	=> 95%	BSNL	Andhra Pradesh	87.64%
Karnataka			89.48%	
Kerala			90.01%	
Tamilnadu including Chennai			92.88%	

4.2 The detailed table on Service Provider wise performance of QoS parameters for Cellular Mobile Services is available at **Annexure-4.1**.

## Section B: Quality of Service of Basic Telephone Service (Wire Line) Providers

**Table 4.3: QoS Summary - Wireline Service**

**Summary of Performance of service providers against identified parameters**

Sr. No.	Parameters	Benchmark	No of license areas where operators not meeting the benchmarks			
			June, 2022		September, 2022	
			Out of 104 In Nos.	Out of 104 In %age	Out of 107 In Nos.	Out of 107 In %age
(i)	Fault incidences No. of faults per 100 subs/month)	≤ 7	0	0.00%	0	0.00%
(ii)	% Fault repaired by next working day (for urban areas)	≥ 85%	2	1.92%	2	1.87%
	% Fault repaired within 5 days (for urban areas)	≥100%	2	1.92%	2	1.87%
(iii)	% Fault repaired by next working day (for rural and hilly areas)	≥ 75%	0	0.00%	1	0.93%
	% Fault repaired within 7 days (for rural and hilly areas)	≥100%	0	0.00%	1	0.93%
(iv)	Mean time to Repair (MTTR)	≤10Hs	2	1.92%	1	0.93%
(v)	Point of Interconnection (POI) Congestion (No. of PoIs not meeting benchmark)	≤ 0.5%	0	0.00%	0	0.00%
(vi)	Metering and Billing credibility - post-paid	≤ 0.1%	0	0.00%	0	0.00%
	Metering and Billing credibility -pre-paid	≤ 0.1%	0	0.00%	0	0.00%
(vii)	Resolution of billing/charging /Credit & validity complaints	<b>98% within 4 weeks</b>	0	0.00%	0	0.00%
	Resolution of billing/charging / Credit & validity complaints	<b>100% within 6 weeks</b>	0	0.00%	0	0.00%

<b>(viii)</b>	Period of applying credit /waiver/ adjustment to customer's	<b>1 week of resolution of complaint</b>	0	0.00%	0	0.00%
<b>(ix)</b>	Accessibility of call centre/ customer care	<b>≥ 95%</b>	0	0.00%	10	9.35%
	%age of calls answered by the operators (voice to voice) within ninety seconds	<b>≥ 95%</b>	0	0.00%	11	10.28%
<b>(x)</b>	Termination / closure of service	<b>&lt;= 7 days</b>	2	1.92%	2	1.87%
<b>(xi)</b>	Time taken for refund of deposits after closures	<b>100% within 60 days</b>	4	3.85%	4	3.74%

**NOTE:** Most of the SPs have not reported for the parameter “Metering and billing credibility - pre paid” due to not providing pre-paid service in Basic (Wire line) service.

4.3 The performance has improved in this quarter as compared to the previous quarter in respect of the following parameters: -

i. Mean time to Repair” (MTTR) **≤10Hs**

4.4 The performance has deteriorated in this quarter as compared to the previous quarter in respect of the following parameters: -

- i. % Fault repaired by next working day (for rural and hilly areas)  $\geq 75\%$
- ii. % Fault repaired within 7 days (for rural and hilly areas)  $\geq 100\%$
- iii. Accessibility of call centre/ customer care  $\geq 95\%$
- iv. %age of calls answered by the operators (voice to voice) within ninety seconds  $\geq 95\%$

**Table 4.4: Parameter wise analysis of non-compliance of Service Providers**

Parameter	Benchmark	Service Provider	Service Area	Parameters not met	
% of faults repaired by next working day - Urban	For urban areas by next working day $\geq 85$	MTNL	Delhi	82.88%	
			Mumbai	52.90%	
% of faults repaired within 5 days - Urban	For urban areas $\geq 100$		Delhi	96.26%	
			Mumbai	74.70%	
% of faults repaired by next working day - Rural and hilly areas	$\geq 75$		Mumbai	58.80%	
% of faults repaired within 7 days- Rural and hilly areas	$\geq 100$		Mumbai	82.40%	
Mean Time to Repair (MTTR)	$\leq 10$ hrs		Mumbai	47.26	
Accessibility of call centre/ customer care	$\geq 95\%$		BSNL	Andhra Pradesh	87.14%
				Assam	82.88%
				Bihar	84.81%
		Karnataka		84.37%	
		Kerala		86.11%	
		Kolkata		85.24%	
		North East		85.02%	
		Odisha		81.77%	
		Tamilnadu including Chennai		87.57%	
West Bengal	87.20%				
Percentage of calls answered by the operators (voice to voice) within ninety seconds	$\geq 95\%$	AIRTEL	Kerala	92.77%	
		BSNL	Andhra Pradesh	81.87%	
			Assam	82.32%	
			Bihar	81.48%	
			Karnataka	80.07%	
			Kerala	82.20%	
			Kolkata	82.02%	
			North East	83.49%	
			Odisha	79.01%	
			Tamilnadu including Chennai	82.48%	
			West Bengal	83.31%	



Termination / Closure of service	<= 7 days	MTNL	Mumbai	99.98%
		TATA	Maharashtra	99.89%
Time taken for Refund of deposits after closures- within 60 days	100% within 60 days	BSNL	Punjab	99.60%
			Rajasthan	0.00%
			Tamilnadu including Chennai	54.86%
		MTNL	Mumbai	52.38%

4.5 Detailed table containing QoS parameters for all the Wireline Service Providers is given in **Annexure-4.2**.

## **Section C : Quality Of Service Of Service Providers Providing Broadband Service (WIRELINE)**

- 4.6 There are 806 Service Providers providing broadband (wireline) service at the end of September, 2022. Total number of broadband (wireline) subscriber base of all the broadband service providers is 310,93,105 in quarter ending September, 2022 as compared to 287,07,464 in quarter ending June, 2022.
- 4.7 Out of 806 broadband service providers providing broadband (wireline) service, only 84 service providers are having subscriber base more than 10,000 subscribers and share 97.34% of total subscriber base in this quarter. The total number of broadband subscribers (wireline) of service providers having more than 10,000 subscriber base, has increased from 280,72,052 at the end of June, 2022 (for 77 service providers) to 302,66,534 at the end of September, 2022 (for 84 service providers).
- 4.8 This report covers performance of 84 broadband service providers' vis-à-vis the QoS benchmarks prescribed by TRAI. The summary of performance of the service providers who have not met the benchmarks in this quarter and performance of previous quarter is given in the table below: -

**Table 4.5: Summary of Performance of Broadband Service Providers  
against identified parameters**

S. No	Parameters	Benchmarks	Quarter Ending		Quarter Ending	
			June, 2022		September, 2022	
			Out of 120	Out of 120	Out of 118	Out of 118
<b>1</b>	<b>Service Provisioning/ Activation Time</b>	100% in =< 15 working days				
1.2	%age of connections provided within 15 days of registration of demand	100%	1	<b>0.83%</b>	1	<b>0.85%</b>
<b>2</b>	<b>Faults Repair/ Restoration time</b>					
2.2	% of faults repaired by next working day	>90%	1	<b>0.83%</b>	2	<b>1.69%</b>
2.3	% of faults repaired within 3 working day	=>99%	1	<b>0.83%</b>	3	<b>2.54%</b>
<b>3</b>	<b>Billing Performance</b>					
3.3	%age of bills disputed	<2%	0	<b>0.00%</b>	0	<b>0.00%</b>
3.4	%age of complaints resolved within 4 weeks	100% within 4 weeks	0	<b>0.00%</b>	0	<b>0.00%</b>
3.5	%age of cases to whom refund of deposits is made within 60 days of closures	100% within 60 days	2	<b>1.67%</b>	2	<b>1.69%</b>
<b>4</b>	<b>Response Time to the Customer for assistance</b>					
4.2	%age of calls answered by operator (Voice to voice) within 60 sec	>60%	0	<b>0.00%</b>	0	<b>0.00%</b>
4.3	%age of calls answered by operator (Voice to voice) within 90 sec	>80%	2	<b>1.67%</b>	1	<b>0.85%</b>
<b>5</b>	<b>Bandwidth utilisation/throughput</b>					
5.2	No. of Intra network links having Bandwidth utilisation >90% during peak hours (TCBH)	0	0	<b>0.00%</b>	0	<b>0.00%</b>
5.4	No. of Upstream links for International connectivity having bandwidth utilisation >90% during peak hours (TCBH)	0	0	<b>0.00%</b>	0	<b>0.00%</b>
5.7	% International bandwidth utilization during peak hours (TCBH) (Enclose MRTG)	<90%	0	<b>0.00%</b>	0	<b>0.00%</b>

S. No	Parameters	Benchmarks	Quarter Ending		Quarter Ending	
			June, 2022		September, 2022	
			Out of 120	Out of 120	Out of 118	Out of 118
5.8	Broadband Connection Speed available (download) from ISP node to user	>80%	0	0.00%	0	0.00%
<b>6</b>	<b>Service Availability/Uptime (for all users) in %age</b>					
6.3	Service availability /uptime (for all users) in %age	>98%	0	0.00%	0	0.00%
<b>7</b>	<b>Packet loss (for wired broadband access) in %age</b>					
		<1%	0	0.00%	0	0.00%
<b>8</b>	<b>Network latency (for wired broadband access)</b>					
8.1	User reference point at POP/ISP Gateway node to (IGSP/NIXI)	<120ms	0	0.00%	0	0.00%
8.2	User reference point at ISP Gateway node to International nearest NAP port abroad (terrestrial)	<350ms	0	0.00%	0	0.00%
8.3	User reference point at ISP Gateway node to International nearest NAP port abroad (satellite)	<800ms	0	0.00%	0	0.00%

**Table 4.6: Parameter-wise analysis of non-compliance of QoS benchmarks for Broadband Service Providers**

<b>S.No.</b>	<b>Parameters</b>		<b>Bench- marks</b>	<b>Service Provider</b>	<b>LSA</b>	<b>Perfor- mance</b>
1	Service Provisioning/ Activation Time	% age of connections provided within 15 days of registration of demand	100%	Mahanagar Telephone Nigam Ltd.	All India	96.05%
2	Fault Repair/ Restoration Time	% of faults repaired by next working day (>90%)	>90%	Mahanagar Telephone Nigam Ltd.	All India	72.09%
				Tata Teleservices Limited	Gujarat	83.04%
		% of faults repaired within 3 working day	=>99%	Mahanagar Telephone Nigam Ltd.	All India	79.05%
				Tata Teleservices Limited	Andhra Pradesh Gujarat	98.61% 93.75%
3	Billing Performance	%age of cases to whom refund of deposits is made within 60 days of closures	100% within 60 days	Bharat Sanchar Nigam Ltd.	All India	96.58%
				Mahanagar Telephone Nigam Ltd.	All India	75.67%
4	Response Time to the Customer for assistance	%age of calls answered by operator (Voice to voice) within 90 sec	>80%	Atria Convergence Technologies Ltd.	All India	74.93%

4.9 Detailed table containing QoS parameters for all the Broadband Service Providers is given in **Annexure-4.3**.

# **Chapter 5 : Performance of Cable TV, DTH and Radio Broadcasting Services**

**Table 5.1: Key Parameters - Broadcasting & Cable TV Services**

S.No	Parameter	Jun-22	Sep-22
1	Number of Private satellite TV channels permitted by the Ministry of Information and Broadcasting (MIB) for uplinking only/downlinking only/both uplinking and downlinking	892*	885*
2	Number of Pay TV Channels as reported by broadcasters	347	353
3	Total number of Multi System Operators (MSOs), who have been granted Permanent Registration (for 10 years) by Ministry of I&B for providing Cable TV services through Digital Addressable Systems	1756#	1750#
4	Number of FM Radio Stations (excluding All India Radio)	388	388
5	Number of pay DTH Operators	4	4
6	Number of Operational Community Radio Stations	366	374
7	Number of total active Subscribers with pay DTH operators (in million)	67.04	65.58

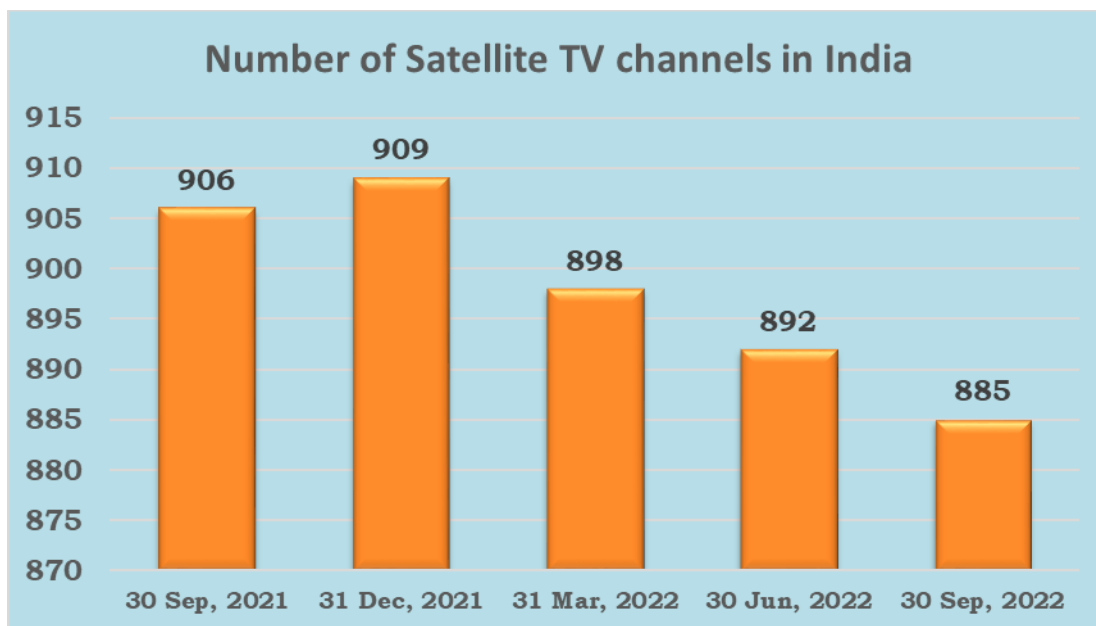
\* <https://new.broadcastseva.gov.in/digigov-portal-web-app/webHP?requestType=ApplicationRH&actionVal=userInformationSystem&screenId=2> (uploaded on 07.11.2022)

# Source- [https://mib.gov.in/all\\_broadcasting\\_documents](https://mib.gov.in/all_broadcasting_documents)

### A. Satellite TV Channels

5.1 A total of approximately 885 private satellite TV channels have been permitted by the Ministry of Information and Broadcasting (MIB) for uplinking only/downlinking only/both uplinking & downlinking. The total number of satellite TV channels is depicted in **Chart 5.1**. Further, the permission-wise number of permitted satellite TV channels is given in the **Table 5.2**.

**Chart5.1- : Number of Satellite TV channels in India**



Source: Ministry of I&B (broadcastseva.gov.in)

**Table 5.2: Permission-wise number of permitted satellite TV channels**

Type of Permission	Number of channels	Remarks
Uplinking only	13	TV channels uplinked from India but downlinked abroad only
Downlinking only	67	TV channels uplinked from abroad but downlinked only in India
Both Uplinking & downlinking	805	TV channels uplinked from India and also downlinked only in India
<b>Total</b>	<b>885</b>	

Out of 885 permitted satellite TV channels, 872 channels are available for downlinking in India.

### **Pay TV Channels**

5.2 As per the reporting done by broadcasters in pursuance of the Tariff Order dated 3<sup>rd</sup> March 2017 as amended, out of 872 permitted satellite TV channels which are available for downlinking in India, there are 353 satellite pay TV channels as on 30<sup>th</sup> September 2022. Out of 353 pay channels, 254 are SD satellite pay TV channels and 99 are HD satellite pay TV channels. A list of pay TV channels offered by broadcasters for

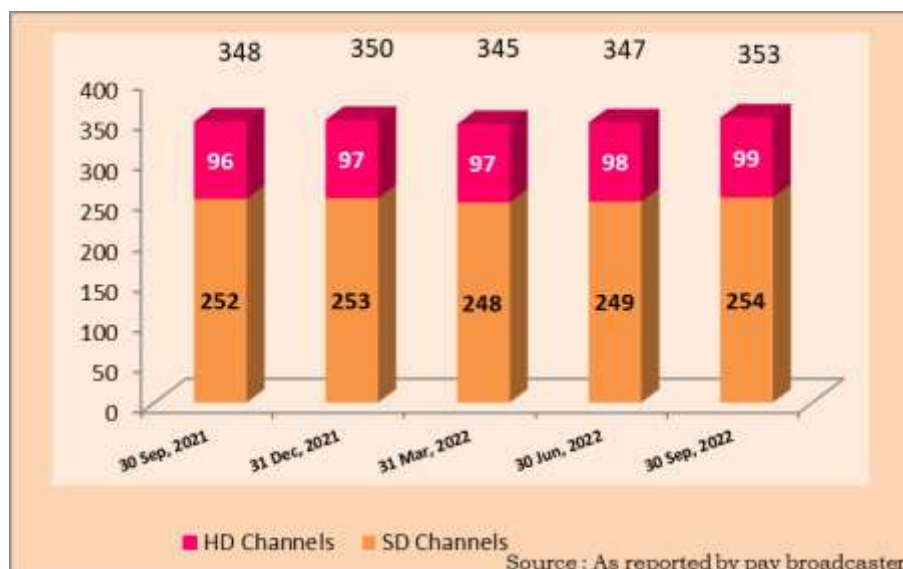


subscribers as reported to TRAI is attached as **Annexure-5.1**. Apart from these pay channels reported to TRAI, all other channels, available for downlinking in India, are considered as Free to Air (FTA) channels. **Chart-5.2** depicts total number of Pay satellite TV channels and FTA satellite TV channels available for downlinking in India during last one year. **Chart-5.3** depicts total number of SD satellite Pay TV channels and HD satellite Pay TV channels during last one year.

**Chart5.2: Number of Pay and FTA channels available for downlinking in India**



**Chart 5.3 : Numbers of SD satellite pay TV channels and HD satellite pay TV channels**



## B. Cable TV Sector

5.3 As on 30<sup>th</sup> September 2022, there are 1750 MSOs registered with MIB. As per the data reported by MSOs and HITS operator, there are 12 MSOs & 1 HITS operator who have subscriber base greater than one million. A list of such major MSOs and HITS operators is attached as **Annexure 5.2**. Details of subscriber base of major MSO and HITS Operators (greater than one million) are given in following **Table 5.3:-**

**Table 5.3: Subscriber base of major MSOs/HITS operators at the end of September, 2022 (more than one million subscribers)**

Sl. No.	Name of the operator	Total Active Subscriber Base (includes subscribers who have been inactive or temporarily suspended for not more than last 90 days)
1.	GTPL Hathway Ltd	84,73,832
2.	Siti Networks Ltd	69,92,219
3.	Hathway Digital Ltd	55,71,761
4.	Den Networks Ltd	42,89,919
5.	Thamizhaga Cable TV Communication Pvt Ltd	38,00,767
6.	Kerala Communicators Cable Ltd	31,29,712
7.	Tamil Nadu Arasu Cable TV Corporation Ltd	24,42,762
8.	NXT Digital Ltd (HITS)	23,56,744
9.	KAL Cables Pvt. Ltd	20,25,733
10.	Fastway Transmissions Pvt Ltd	19,04,855
11.	V K Digital Network Pvt. Ltd	18,11,545
12.	NXT Digital Ltd (Cable TV)	13,15,446
13.	Asianet Digital Network Pvt. Ltd	10,92,369

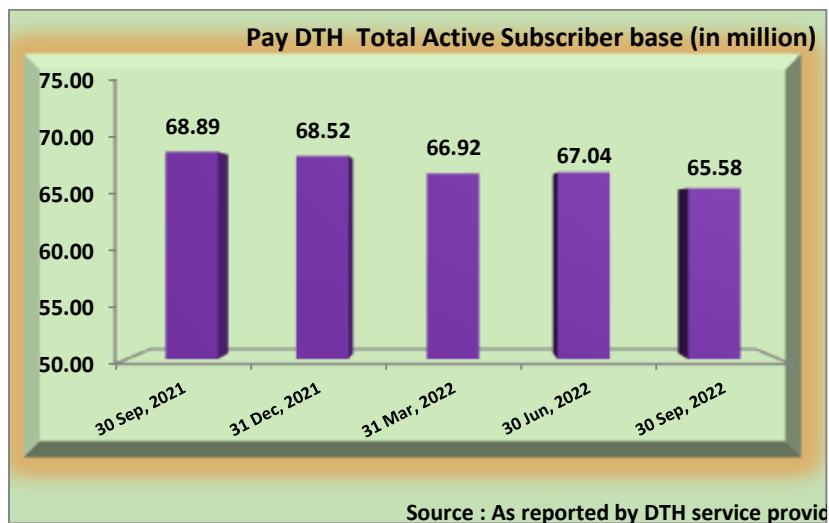
## C. Direct-to-Home (DTH) Sector

5.4 Since its introduction in the year 2003, Indian DTH service have displayed a phenomenal growth. During the quarter ending 30<sup>th</sup> September, 2022, there were 4 pay DTH service providers in India. A list of DTH Operators is attached as **Annexure 5.3**.

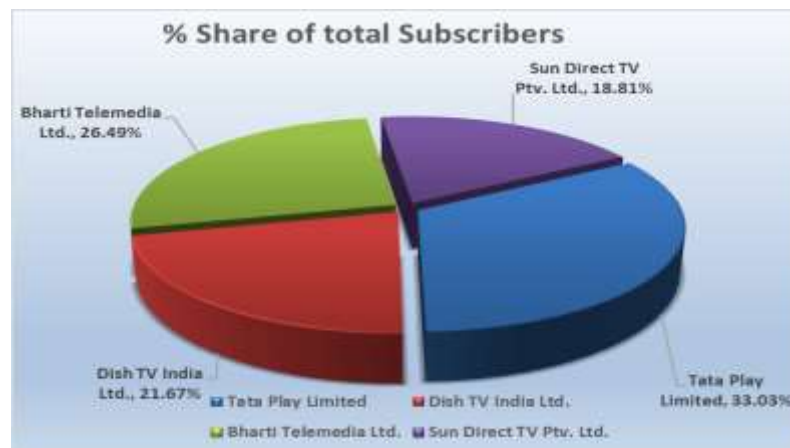
5.5 Pay DTH has attained total active subscriber base of around 65.58 million. This is in addition to the subscribers of the DD Free Dish (free DTH services of Doordarshan). The total active subscriber base has decreased from 67.04 million in June 2022 to 65.58 million in September, 2022.

5.6 Quarterly growth in the DTH sector in terms of the total active subscriber base and market share of DTH operators in terms of percentage of total active subscribers during the quarter ending 30<sup>th</sup> September 2022 is depicted in the following charts: -

**Chart 5.4: - Total active subscriber base of pay DTH sector (in millions)**



**Chart 5.5 : Market share of DTH Operators**



Source : As reported by DTH service providers

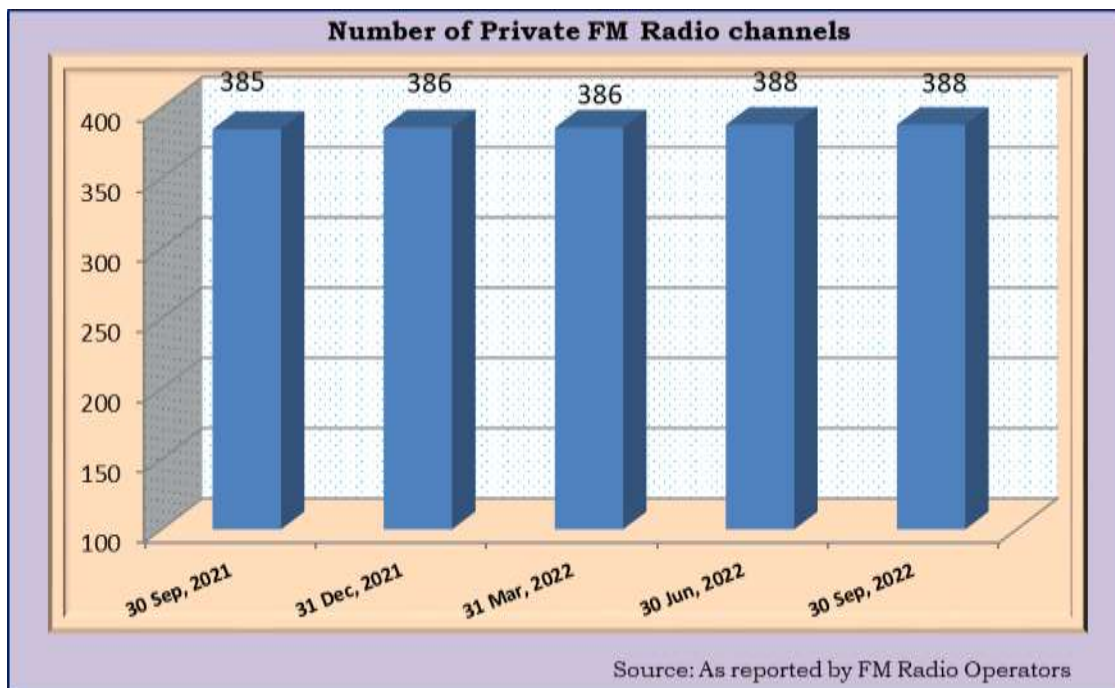
## D. IPTV

As per information provided by the Ministry of Information and Broadcasting (MIB), as on 30.09.2022, there are 23 IPTV Operators. A list of such IPTV Operators is attached as **Annexure 5.4**. At present, M/s Andhra Pradesh State Fibernet Ltd has reported a subscriber base of 6,19,284 at the end of September 2022.

## E. FM Radio Services

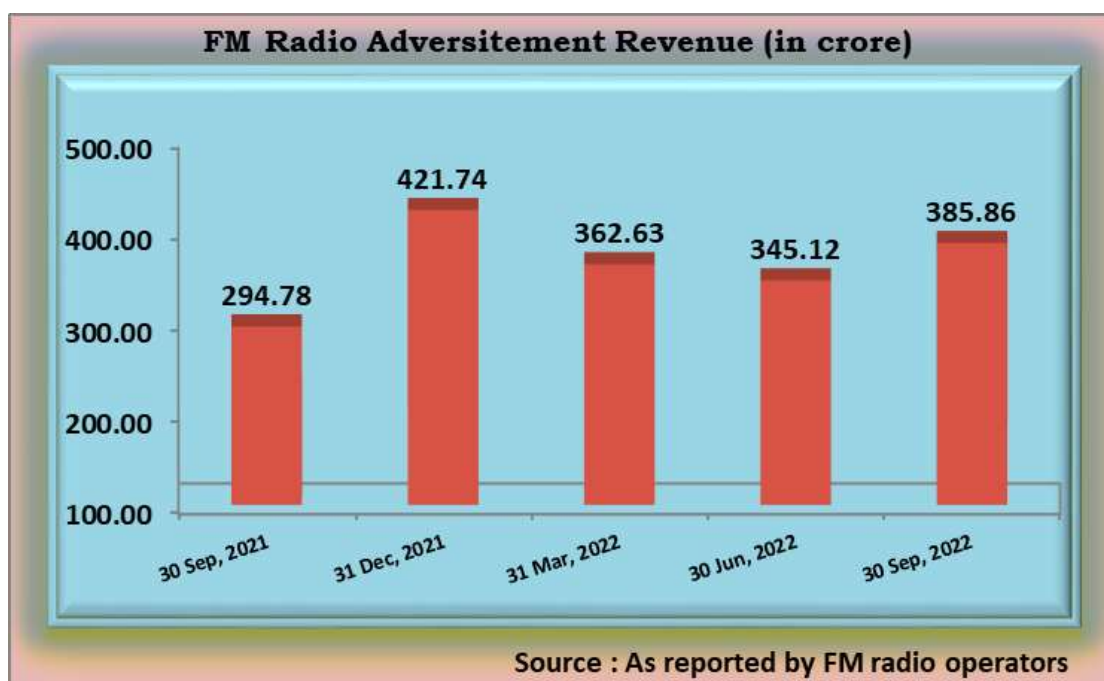
5.7 Apart from the radio channels operated by All India Radio – the public broadcaster, as per the data reported by FM Radio operators to TRAI, as on 30<sup>th</sup> September 2022, there are 388 operational private FM Radio channels in 113 cities operated by 36 private FM Radio operators. A list of 113 existing cities with operational private FM radio channels in India, as on 30<sup>th</sup> September, 2022 is placed at **Annexure 5.5**. The following **chart 5.6** depicts the quarterly growth in private FM Radio stations.

**Chart 5.6 : Number of Private FM Radio channels**



5.8 The advertisement revenue reported by FM Radio operators during the quarter ending 30<sup>th</sup> September 2022 in respect of 388 private FM Radio channels is Rs.385.86 crore as against Rs.345.12 crore in respect of 388 private FM Radio channels for the previous quarter i.e. 30<sup>th</sup> June 2022.

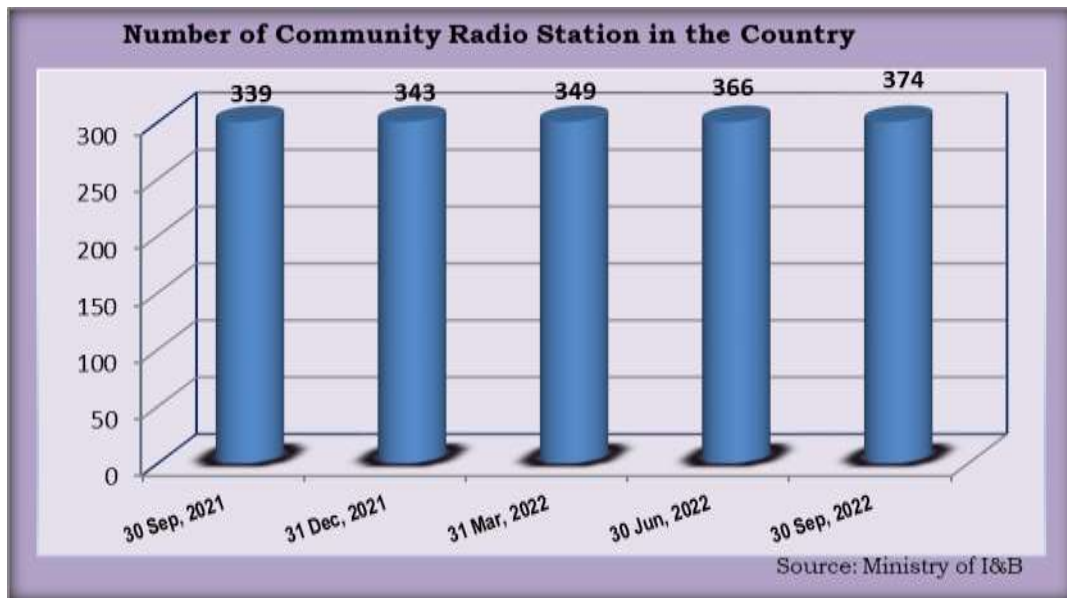
**Chart 5.7: Details of Advertisement Revenue submitted by the private FM Radio broadcasters**



## F. Community Radio

5.9 As on 30<sup>th</sup> September 2022, 374 Community Radio stations are operational. The quarterly growth in the number of operational community radio stations during last one year is depicted in the following **chart 5.8**.

**Chart 5.8: Number of operational Community Radio Stations**



# **Annexures**

### Annexure 1.1: Wireless Subscriber Base

Service Area	Vodafone Idea		Bharti Airtel (including Tata Teleservices)		Reliance Com.		BSNL		MTNL		Reliance Jio		Total		Net Additions
	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	
Andhra Pradesh	13356859	12491955	31538725	31774350			9012485	8797156			29304929	29629059	<b>8,32,12,998</b>	<b>8,26,92,520</b>	<b>-520478</b>
Assam	2410870	2264284	10201674	10438124			3250243	3313824			8246878	8423085	<b>2,41,09,665</b>	<b>2,44,39,317</b>	<b>329652</b>
Bihar	10101469	9959642	38301968	39367223			5587868	5669094			34958257	35927758	<b>8,89,49,562</b>	<b>9,09,23,717</b>	<b>1974155</b>
Delhi	16425147	16616495	16258221	16438020	202	198			2151291	1691594	18169458	18315529	<b>5,30,04,319</b>	<b>5,30,61,836</b>	<b>57517</b>
Gujarat	23835491	23266733	11622248	11252833	64	57	5510968	5293414			26404219	26786692	<b>6,73,72,990</b>	<b>6,65,99,729</b>	<b>-773261</b>
Haryana	7796890	7729482	6202510	6314298	18	13	4731997	4724280			8392903	7977956	<b>2,71,24,318</b>	<b>2,67,46,029</b>	<b>-378289</b>
Himachal Pradesh	539042	521480	3323745	3368664	92	92	2722613	2613363			3195547	3296501	<b>97,81,039</b>	<b>98,00,100</b>	<b>19061</b>
Jammu & Kashmir	416947	414420	5792073	5870318	0	0	827217	832966			4714476	4949686	<b>1,17,50,713</b>	<b>1,20,67,390</b>	<b>316677</b>
Karnataka	7473709	7668092	30777403	30920839	615	601	6759194	6576460			20198583	20565682	<b>6,52,09,504</b>	<b>6,57,31,674</b>	<b>522170</b>
Kerala	15278510	14990802	7798383	7821693	157	152	10319550	10115577			9485240	9758480	<b>4,28,81,840</b>	<b>4,26,86,704</b>	<b>-195136</b>
Madhya Pradesh	19544985	18318854	15281659	15342537	0	0	5818909	5628013			36620014	37513234	<b>7,72,65,567</b>	<b>7,68,02,638</b>	<b>-462929</b>
Maharashtra	27756584	26351731	20429513	20547335	0	0	6618575	6386783			37530857	38459608	<b>9,23,35,529</b>	<b>9,17,45,457</b>	<b>-590072</b>
Mumbai	11702577	11440567	9525925	9390935	1214	1197			1088510	1078159	11853986	11931328	<b>3,41,72,212</b>	<b>3,38,42,186</b>	<b>-330026</b>
North East	1076669	1023214	5733657	5780529	0	0	1410265	1389461			3749449	3936541	<b>1,19,70,040</b>	<b>1,21,29,745</b>	<b>159705</b>
Orissa	1727691	1677824	11181653	11302188	36	32	6296889	6330453			13603769	13759487	<b>3,28,10,038</b>	<b>3,30,69,984</b>	<b>259946</b>
Punjab	8345197	7640310	12000312	12053572	115	113	5184123	5054814			10821536	11072338	<b>3,63,51,283</b>	<b>3,58,21,147</b>	<b>-530136</b>
Rajasthan	10891351	10609215	22005978	22111587	169	161	6441357	6390012			23792866	24227583	<b>6,31,31,721</b>	<b>6,33,38,558</b>	<b>206837</b>
Tamil Nadu	17654593	17445195	27100431	27160209	291	272	9919677	9605054			24289215	23735924	<b>7,89,64,207</b>	<b>7,79,46,654</b>	<b>-1017553</b>
UP(E)	20159319	19609019	37292054	36164407	0	0	10800275	10371737			33468171	34611274	<b>10,17,19,819</b>	<b>10,07,56,437</b>	<b>-963382</b>
UP(W)	18406223	17878479	18661342	18692418	9	8	5790363	5709997			21619720	21944303	<b>6,44,77,657</b>	<b>6,42,25,205</b>	<b>-252452</b>
Kolkata	6080093	5993135	5703819	5687241	0	0	2158452	2172368			9869978	10041779	<b>2,38,12,342</b>	<b>2,38,94,523</b>	<b>82181</b>
West Bengal	15665406	15221878	16235000	16421417	172	157	2361967	2379097			22720643	23102745	<b>5,69,83,188</b>	<b>5,71,25,294</b>	<b>142106</b>
<b>Total</b>	<b>25,66,45,622</b>	<b>24,91,32,806</b>	<b>36,29,68,293</b>	<b>36,42,20,737</b>	<b>3,154</b>	<b>3,053</b>	<b>11,15,22,987</b>	<b>10,93,53,923</b>	<b>32,39,801</b>	<b>27,69,753</b>	<b>41,30,10,694</b>	<b>41,99,66,572</b>	<b>1,14,73,90,551</b>	<b>1,14,54,46,844</b>	<b>-1943707</b>



## Annexure 1.2: Wireline Subscriber Base

Sl. No	Service Area	Bharti Airtel		Reliance Com.		Quadrant		Tata Tele.		MTNL		BSNL		Vodafone Idea		Reliance Jio		Total		Net Additions
		Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	Jun-22	Sep-22	
1	Andhra Pradesh	365092	388080	20731	20247			156504	154615			679728	676698	72645	75155	794850	882035	20,89,550	21,96,830	1,07,280
2	Assam	12084	14230	0	0			0	0			106288	107865	2820	2730	114293	126474	2,35,485	2,51,299	15,814
3	Bihar	0	45704	9	9			8356	8947			162445	161267	1890	1980	302238	345815	4,74,938	5,63,722	88,784
4	Delhi	1768807	1826346	27935	23096			138150	141845	1261711	1249661	-	-	83245	84590	689195	734172	39,69,043	40,59,710	90,667
5	Gujarat	160722	166931	2552	2265			76609	76401			373194	355783	51766	49136	428969	450378	10,93,812	11,00,894	7,082
6	Haryana	62763	85590	0	0			31996	31625			185121	186772	330	360	77350	86349	3,57,560	3,90,696	33,136
7	Himachal Pradesh	2261	2953	0	0			1563	1561			87779	88360	30	30	36523	41382	1,28,156	1,34,286	6,130
8	Jammu & Kashmir	47619	65203	0	0			0	0			96398	91611	30	30	153130	162881	2,97,177	3,19,725	22,548
9	Karnataka	939345	983541	21608	20702			234558	226735			873995	874983	131482	146012	574699	681993	27,75,687	29,33,966	1,58,279
10	Kerala	80870	83486	4273	4075			18899	19119			1030782	1028453	6990	6810	171776	192530	13,13,590	13,34,473	20,883
11	Madhya Pradesh	368034	390766	5	5			12345	12461			272623	259391	23405	29365	441441	465632	11,17,853	11,57,620	39,767
12	Maharashtra	305339	325396	10111	9831			210639	208844			674857	641532	25663	26463	187492	195909	14,14,101	14,07,975	-6,126
13	Mumbai	481375	497526	49154	46890			478692	476701	13,69,823	13,35,525	0	0	178216	174536	651576	678867	32,08,836	32,10,045	1,209
14	North East	0	0	0	0			0	0			80733	76764	330	360	98831	113671	1,79,894	1,90,795	10,901
15	Orissa	0	1046	4	4			8192	8587			181004	174087	3430	3990	147938	170112	3,40,568	3,57,826	17,258
16	Punjab	190841	199686	2413	1970	298440	301569	14149	15058			310451	309753	2010	2040	191182	213770	10,09,486	10,43,846	34,360
17	Rajasthan	148818	169407	3639	3484			12877	12989			286579	285087	15180	15385	266364	282324	7,33,457	7,68,676	35,219
18	Tamil Nadu	690972	728365	20830	19874			120398	119497			1004844	990170	37765	36980	524259	576631	23,99,068	24,71,517	72,449
19	U.P.(E)	131779	148497	20	20			8320	8253			143780	140938	16720	16720	309635	345854	6,10,254	6,60,282	50,028
20	U.P.(W)	100935	95971	10	10			4802	4758			191436	187784	3716	3738	338209	379419	6,39,108	6,71,680	32,572
21	Kolkata	170958	177461	6161	5385			46538	48372			220248	211911	13525	14255	318002	350386	7,75,432	8,07,770	32,338
22	West Bengal	0	7578	13	13			2634	2627			240220	250934	120	120	158960	174537	4,01,947	4,35,809	33,862
	<b>Total</b>	<b>60,28,614</b>	<b>64,03,763</b>	<b>1,69,468</b>	<b>1,57,880</b>	<b>2,98,440</b>	<b>3,01,569</b>	<b>15,86,221</b>	<b>15,78,995</b>	<b>26,31,534</b>	<b>25,85,186</b>	<b>72,02,505</b>	<b>71,00,143</b>	<b>6,71,308</b>	<b>6,90,785</b>	<b>69,76,912</b>	<b>76,51,121</b>	<b>2,55,65,002</b>	<b>2,64,69,442</b>	<b>9,04,440</b>

### Annexure 1.3: Service Area and Service Provider-wise details of PCOs

Sl. No.	Name of Telecom Service Area	Service Provider	Number of PCOs as on 30.6.2022	Number of PCOs as on 30.9.2022	Net PCO increase/ decrease as on 30.9.2022	Percentage Growth/ Decline as on 30.9.2022
1	Andhra Pradesh	Bharat Sanchar Nigam Limited	5,009	4,602	-407	-8.13%
		Bharti Airtel	181	181	0	0.00%
2	Assam	Bharat Sanchar Nigam Limited	501	495	-6	-1.20%
3	Bihar	Bharat Sanchar Nigam Limited	2,311	358	-1953	-84.51%
4	Delhi	Bharti Airtel	330	330	0	0.00%
		MTNL	6,303	6,146	-157	-2.49%
5	Gujarat	Bharat Sanchar Nigam Limited	2,499	2,351	-148	-5.92%
		Bharti Airtel	14	14	0	0.00%
6	Haryana	Bharat Sanchar Nigam Limited	306	230	-76	-24.84%
		Bharti Airtel	129	129	0	0.00%
7	Himachal Pradesh	Bharat Sanchar Nigam Limited	455	599	+144	31.65%
8	Jammu & Kashmir	Bharat Sanchar Nigam Limited	182	150	-32	-17.58%
9	Karnataka	Bharat Sanchar Nigam Limited	3,376	4,005	+629	18.63%
		Bharti Airtel	2,549	2,549	0	0.00%
10	Kerala	Bharat Sanchar Nigam Limited	5,293	5,037	-256	-4.84%
		Bharti Airtel	373	373	0	0.00%
11	Kolkata	Bharat Sanchar Nigam Limited	1,399	1,343	-56	-4.00%
		Bharti Airtel	26	26	0	0.00%
12	Madhya Pradesh	Bharat Sanchar Nigam Limited	1,049	1,003	-46	-4.39%
		Bharti Airtel	0	0	0	
13	Maharashtra	Bharat Sanchar Nigam Limited	3,668	3,483	-185	-5.04%
		Bharti Airtel	0	0	0	
14	Mumbai	Bharti Airtel	50	50	0	0.00%
		MTNL	8,603	7,785	-818	-9.51%
15	North East	Bharat Sanchar Nigam Limited	496	426	-70	-14.11%
16	Odisha	Bharat Sanchar Nigam Limited	315	279	-36	-11.43%
17	Punjab	Bharat Sanchar Nigam Limited	907	888	-19	-2.09%
		Bharti Airtel	0	0	0	
		Quadrant	403	378	-25	-6.20%
18	Rajasthan	Bharat Sanchar Nigam Limited	599	531	-68	-11.35%
		Bharti Airtel	209	209	0	0.00%
19	TN including Chennai	Bharat Sanchar Nigam Limited	10,085	9,917	-168	-1.67%
		Bharti Airtel	0	0	0	
20	UP - East	Bharat Sanchar Nigam Limited	2,485	2,393	-92	-3.70%
		Bharti Airtel	0	0	0	
21	UP - West	Bharat Sanchar Nigam Limited	1,126	840	-286	-25.40%
		Bharti Airtel	0	0	0	
22	West Bengal	Bharat Sanchar Nigam Limited	196	25	-171	-87.24%
	<b>Total</b>		<b>61,427</b>	<b>57,125</b>	<b>-4302</b>	<b>-7.00%</b>
	<b>Total (In Lakhs)</b>		<b>0.61</b>	<b>0.57</b>	<b>-0.043</b>	<b>-7.00%</b>

**Annexure 1.4: Service Area and Service Provider wise details of Village Public Telephones (VPTs)**

S.NO	Name of Telecom Service Area	Service Provider	Number of VPTs as on 30.6.2022	Number of VPTs as on 30.9.2022	Net VPTs increase/ decrease as on 30.9.2022	Percentage Growth/ Decline as on 30.9.2022
1	Andhra Pradesh	BSNL	2,896	2,896	0	0.00%
2	Assam	BSNL	105	105	0	0.00%
3	Bihar	BSNL	6,114	6,114	0	0.00%
4	Delhi	BSNL				
5	Gujarat	BSNL	5,278	5,278	0	0.00%
6	Haryana	BSNL	462	462	0	0.00%
7	Himachal Pradesh	BSNL	1,875	1,875	0	0.00%
8	Jammu & Kashmir	BSNL	810	810	0	0.00%
9	Karnataka	BSNL	3,656	3,656	0	0.00%
10	Kerala	BSNL	331	331	0	0.00%
11	Kolkata	BSNL	130	130	0	0.00%
12	Madhya Pradesh	BSNL	10,100	10,100	0	0.00%
13	Maharashtra	BSNL	7,846	7,846	0	0.00%
14	Mumbai	BSNL				
15	North East	BSNL	1,182	1,182	0	0.00%
16	Odisha	BSNL	1,554	1,554	0	0.00%
17	Punjab	BSNL	4,493	4,493	0	0.00%
18	Rajasthan	BSNL				
19	TN including Chennai	BSNL	5,478	5,478	0	0.00%
20	UP - East	BSNL	568	568	0	0.00%
21	UP - West	BSNL	3,758	3,758	0	0.00%
22	West Bengal	BSNL	11,970	11,970	0	0.00%
	<b>Total</b>		<b>68,606</b>	<b>68,606</b>	<b>0</b>	<b>0.00%</b>
	<b>Total (In Lakh)</b>		<b>0.69</b>	<b>0.69</b>	<b>0.00</b>	<b>0.00%</b>

**Annexure 1.5: Internet Service Provider(ISP) wise Internet Subscriber base  
as on 30.09.2022**

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
1	Reliance Jio Infocomm Ltd.	0	426795168	426795168
2	Bharti Airtel Ltd.	20162152	225092203	245254355
3	Vodafone Idea Ltd	11962032	123200480	135162512
4	Bharat Sanchar Nigam Ltd.	2810084	25622849	28432933
5	Atria Convergence Technologies Pvt. Ltd.	0	2138764	2138764
6	Hathway Cable And Datacom Limited	0	1131086	1131086
7	ONEOTT iNTERTAINMENT LIMITED	0	1104195	1104195
8	YOU Broadband India Ltd.	14353	843274	857627
9	GTPL Broadband Pvt. Ltd.	0	779818	779818
10	Excitel Broadband Private Limited	0	774362	774362
11	Kerala Vision Broadband Ltd.	0	741453	741453
12	Mahanagar Telephone Nigam Limited	48417	575371	623788
13	Netplus Broadband Services Pvt. Ltd	0	558780	558780
14	ALLIANCE BROADBAND SERVICES PVT. LTD.	0	515137	515137
15	RailTel Corporation of India Ltd.	0	482687	482687
16	Asianet Satellite Communications Ltd.	0	417568	417568
17	Tata Play Broadband Private Limited	0	373663	373663
18	Intech Online Pvt. Ltd.	0	309241	309241
19	Quadrant Televentures Ltd.	88	248028	248116
20	Tikona Infinet Ltd.	0	232164	232164
21	Pioneer eLabs Limited	0	227019	227019
22	D-Vois Communication Private Limited	0	198782	198782
23	Limras Eronet Broadband Service Pvt Ltd	0	192689	192689
24	Excell Media Pvt. Ltd.	0	142118	142118
25	ANI NETWORK PVT LTD	0	137854	137854
26	Siti Broadband Services Pvt. Limited	0	129668	129668
27	Indinet Service Pvt. Ltd.	0	128542	128542
28	Wish Net Pvt. Ltd.	0	117449	117449
29	GTPL KCBPL Broadband Private Limited	0	111385	111385
30	Joister Infoserve Pvt. Ltd.	0	101051	101051
31	Five Network Solution (India) Ltd.	0	92826	92826
32	Airnet Cable and Datacom Pvt. Ltd.	0	91657	91657
33	Fusionnet Web Services Pvt Ltd	0	74808	74808
34	Ishan Netsol Pvt. Ltd.	0	74283	74283
35	DEN Broadband Limited	0	70148	70148
36	Vortex Netsol Pvt. Ltd.	0	68597	68597

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
37	K Net Solutions Pvt. Ltd.	0	56867	56867
38	Dwan Supports Pvt. Ltd.	0	54457	54457
39	Microscan Infocommtech Private Limited	0	50307	50307
40	DNA Infotel Pvt. Ltd.	0	36381	36381
41	Instanet Technologies Pvt. Ltd.	0	36065	36065
42	Meghbela Cable & Broadband Servies (P) Ltd	0	35347	35347
43	Radinet Info Solutions Pvt. Ltd.	0	31818	31818
44	Multicraft Digital Technologies Private Limited	0	29949	29949
45	Sristisanchar Webnet Limited	0	29273	29273
46	Honesty Net Solutions (I) Pvt Ltd	0	28669	28669
47	WAN AND LAN INTERNET PRIVATE LIMITED	0	27275	27275
48	ADN Broadband Private Limited	0	27099	27099
49	Tata Teleservices(Maharashtra) Ltd.	62	26376	26438
50	Readylink Internet Services Limited	0	26023	26023
51	Ethernet Xpress(I) Pvt. Ltd.	0	25477	25477
52	Shyam Spectra Private Limited	0	25280	25280
53	Juweriyah Networks Pvt. Ltd.	0	25154	25154
54	Nuron Networks India Private Limited	0	25124	25124
55	Digital Networks Associates Pvt. Ltd.	0	24997	24997
56	Kernel Fibernet Online Network Pvt. Ltd.	0	24110	24110
57	Shree Omkar Infocomm Pvt Ltd	0	23328	23328
58	SIKKA BROADBAND PRIVATE LIMITED	0	22957	22957
59	Tachyon Communications Private Limited	0	21825	21825
60	Kings Broadband Pvt. Ltd	0	21823	21823
61	Tata Communications Limited	471	21338	21809
62	Tata Teleservices Limited	1	21535	21536
63	Weebo Networks Pvt Ltd.	0	20714	20714
64	RI Networks Pvt Ltd	0	20364	20364
65	Stampede Communications Pvt. Ltd.	0	20166	20166
66	WAVE FIBER PRIVATE LIMITED (Formerly Coastal Broadband and Online Services Pvt. Ltd.)	0	20137	20137
67	Candor Infosolution Pvt. Ltd.	0	19523	19523
68	Spiderlink Networks Pvt. Ltd.	0	19327	19327
69	Genstar Network Solutions Pvt. Ltd.	0	19197	19197
70	Rajesh Digital & DataCom Pvt. Ltd.	0	17582	17582
71	Yashash Cable Network (Pvt.) Ltd	0	16686	16686
72	RAINBOW COMMUNICATIONS INDIA PRIVATE LIMITED	0	16663	16663
73	Paradise Telecom Pvt. Ltd.	0	16642	16642

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
74	QUEST CONSULTANCY PVT LTD	0	16328	16328
75	Airlink Communications Pvt. Ltd.	0	15963	15963
76	City Online Services Ltd.	0	15223	15223
77	DDC Broad Band Pvt. Ltd	0	15149	15149
78	Pacenet Meghbela Broadband Pvt.Ltd.	0	13534	13534
79	Angel Air Network Solutions Pvt. Ltd.	0	11638	11638
80	DL GTPL Broadband Pvt. Ltd.	0	11596	11596
81	Intermedia Cable Communication Pvt Ltd	0	11524	11524
82	Apple Broadband Services Pvt. Ltd.	0	11488	11488
83	Ultranet Infotech Solution Pvt. Ltd.	0	11034	11034
84	Sancfil Technologies Internet Services Pvt. Ltd.	0	10801	10801
85	Orange Infocom PVT.LTD	0	10682	10682
86	LM Energy and Software Pvt. Ltd.	5331	5011	10342
87	Airfiber Networks Pvt. Ltd.	0	10137	10137
88	VIJAYALAKSHMI NET SERVICES PRIVATE LIMITED	0	9850	9850
89	INFONET COMM ENTERPRISES PVT LTD	0	9662	9662
90	Esto Broadband Pvt. Ltd.	0	9570	9570
91	Signum Digital Networks Pvt. Ltd	0	9484	9484
92	MAHA MEDIACOM INTERNET PVT. LTD.	0	9469	9469
93	BALAJI TELEWORKS DEVELOPMENTPRIVATE LIMITED	0	9427	9427
94	NORTH EAST DATAA NETWORK PRIVATE LIMITED	0	9329	9329
95	JETWAY Broadband India Pvt Ltd.	0	8960	8960
96	HYOSEC SOLUTIONS Pvt. LTD	0	8693	8693
97	Siliguri Internet & Cable TV Pvt. Ltd.	0	8577	8577
98	Rural Broadband Pvt. Ltd.	0	8309	8309
99	HYFY Giga Fiber Pvt. Ltd.	0	8215	8215
100	Five Internet Solutions Pvt. Ltd.	0	8207	8207
101	AT Broadband Pvt. Ltd.	0	8050	8050
102	APNA TELELINK PVT. LTD.	0	7990	7990
103	R.G. Technosolutions Pvt. Ltd.	0	7872	7872
104	Airconnect Internet Services Pvt. Ltd.	0	7847	7847
105	Gigaline Teleservices (OPC) Pvt. Ltd	0	7336	7336
106	United Telecoms Ltd.	0	7326	7326
107	FOXTEL TELECOMMUNICATIONS PVT LTD	0	7325	7325
108	Vizag Broad CastingCompany Pvt. Ltd.	0	7317	7317
109	WSNS PVT. LTD.	0	7105	7105
110	Kappa Internet Services Pvt. Ltd.	0	7080	7080

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
111	Prisac Aviation Technologies Pvt. Ltd.	0	7071	7071
112	SSCN Pvt. Ltd.	0	6780	6780
113	Cityzone Infonet Pvt. Ltd.	0	6761	6761
114	Specific Net Pvt. Ltd	0	6691	6691
115	Elxer Communications (P)Ltd.	0	6602	6602
116	GEOCITY NETWORK SOLUTIONS PVT. LTD.	0	6505	6505
117	ROHAN MEDIA PRIVATE LIMITED	0	6494	6494
118	Skymax Broadband Services Pvt. Ltd.	0	6442	6442
119	7 Star Cablenet Pvt. Ltd	0	6396	6396
120	Symbios Creations Pvt. Ltd.	0	6368	6368
121	S S Netcom Pvt. Ltd.	0	6354	6354
122	OM-ASHA Net Pvt. Ltd.	0	6294	6294
123	DEEPNET BROADBAND PRIVATE LIMITED	0	6007	6007
124	Southern Online Bio Technologies Ltd.	0	5971	5971
125	Multinet (Udaipur) Pvt. Ltd.	0	5855	5855
126	SANCHAR TELENETWORK PVT LTD	0	5513	5513
127	Airgenie Communications Pvt. Ltd.	0	5504	5504
128	Swiftnet Broadband Pvt Ltd	0	5456	5456
129	SONALI INTERNET SERVICES PVT. LTD.	0	5439	5439
130	Dsouza Infotainment Pvt. Ltd.	0	5297	5297
131	Lalat Internet Service Private Limited	0	5222	5222
132	Wefe Technology Pvt. Ltd.	0	5203	5203
133	SNS Internet Services Pvt. Ltd.	0	4995	4995
134	DEHRADUN E NET SOLUTIONS PRIVATE LIMITED	0	4934	4934
135	Inet Fiber India Pvt. Ltd	0	4703	4703
136	ARKTEL NETWORKS PVT LTD	0	4424	4424
137	Ani Broadband Service Pvt. Ltd.	0	4201	4201
138	Bittel Telecom Private Limited	0	4093	4093
139	Five Net Service Provider Pvt. Ltd.	0	4068	4068
140	Blazenet Ltd.	0	4017	4017
141	SUPER SONIC BROADBAND PVT LTD	0	3915	3915
142	Swiftmail Communications Ltd.	0	3893	3893
143	Siddhant Broadband Pvt. Ltd.	0	3800	3800
144	Speed Online Net Pvt Ltd	0	3796	3796
145	TJ BROADBAND NETWORK PVT LTD	0	3795	3795
146	Shine Communications Pvt. Ltd.	0	3728	3728
147	Fiberzone communication Pvt Ltd	0	3700	3700
148	SoftCall Cust-O-Care Pvt. Ltd..	0	3699	3699

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
149	Kumar Cable Digital Network Pvt. Ltd.	0	3640	3640
150	Getway Broadband Pvt. Ltd.	0	3496	3496
151	Antarjal IT Communication Pvt. Ltd.	0	3489	3489
152	STN INFOTECH PVT. LTD.	0	3476	3476
153	FUTURE CONNECT BROADBAND Pvt Ltd.	0	3475	3475
154	Mukand Infotel Pvt. Ltd.	0	3442	3442
155	Vibhuti Networks Pvt. Ltd.	0	3394	3394
156	FIBRE AIR SERVICES Pvt Ltd.	0	3325	3325
157	Net Access Internet India Private Limited	0	3288	3288
158	HIGHTEC NETWORK SOLUTIONS (OPC) PRIVATE LIMITED	0	3209	3209
159	Sri Nagar Net Tech Pvt. Ltd.	0	3191	3191
160	Rainbow Internet teleservices Pvt Ltd	0	3184	3184
161	Nirav Infoway Pvt. Ltd	0	3174	3174
162	PARAMOUNT INFINET PVT. LTD.	0	3113	3113
163	Prathamesh Broadband Pvt. Ltd	0	3100	3100
164	NEHA INFONET PVT LTD.	0	3001	3001
165	AS Broadband Pvt. Ltd	0	2984	2984
166	Renu Giga Fiber Pvt. Ltd.	0	2904	2904
167	VRD Web Services Pvt. Ltd.	0	2901	2901
168	Niss Internet Services Pvt. Ltd.	0	2861	2861
169	NETWAY INTERNET PVT. LTD.	454	2386	2840
170	AAACLOUD TELEPHONY PRIVATE LIMITED	0	2822	2822
171	Maharaj Netsol Pvt Ltd	0	2819	2819
172	Netfirre Communications Pvt. Ltd.	0	2816	2816
173	El Dot Com Pvt Ltd	0	2804	2804
174	Sherie Plexus ISP Pvt. Ltd.	0	2779	2779
175	NETVISION AWADH NETWORKS PVT LTD	0	2774	2774
176	Krishinet Infocom Pvt. Ltd.	0	2712	2712
177	HBS Network Pvt. Ltd.	0	2704	2704
178	delDSL Internet Pvt Ltd	0	2703	2703
179	TGN NETWORKS PVT LTD	0	2679	2679
180	Exnet Broadband Pvt. Ltd.	0	2670	2670
181	Netfox Networks Private Limited	0	2649	2649
182	TRANSMEDIA TECHNOLOGIES (AP) PVT LTD	0	2639	2639
183	ADRI INFOCOM Pvt. Ltd.	0	2529	2529
184	N4U broadband pvt.ltd	0	2500	2500
185	Megahertz Internet Network Pvt. Ltd.	0	2481	2481
186	Deenet Services Pvt Ltd	0	2475	2475



<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
187	Foxxcell Communications Pvt. Ltd.	0	2444	2444
188	Chandra Net Pvt. Limited	0	2435	2435
189	SBR Telecom Pvt. Ltd.	0	2350	2350
190	Classic Internet and Cable Services Pvt. Ltd.	0	2344	2344
191	TENG NETWORK SOLUTION PRIVATE LIMITED	2317	0	2317
192	Jeebr Internet Service Private Limited	0	2305	2305
193	Myguru Online India (P)Ltd.	0	2305	2305
194	Lbs Infoway India Pvt. Ltd.	0	2301	2301
195	VENKATA SAI INTERNET PRIVATE LIMITED	0	2292	2292
196	WOW Solutions and Systems Pvt. Ltd	0	2271	2271
197	Johnson Telemarketers Pvt. Ltd.	0	2256	2256
198	Lotus Broadband Pvt Ltd	0	2247	2247
199	Bakliwal Telecom Services Pvt. Ltd.	0	2236	2236
200	Pink Broadband Services Pvt. Ltd.	0	2203	2203
201	Real Wire Express Network Pvt. Ltd.	0	2189	2189
202	Sai Prasad Internet Services Pvt. Ltd.	0	2164	2164
203	LAKSHAY ISOLUTIONS INDIA PRIVATE LIMITED	0	2127	2127
204	Suntech Sanchar Private Limited	0	2123	2123
205	Spider Broadband Pvt. Ltd..	0	2102	2102
206	Jetspot Networks Pvt. Ltd.	0	2061	2061
207	Vision Smartlink Networking Pvt. Ltd.	0	2048	2048
208	SMARTLINK SOLUTIONS PVT. LTD.	0	2033	2033
209	Shikhar BroadbandEnterprises Pvt. Ltd.	0	2000	2000
210	Cfiber Communications Pvt. Ltd	0	1995	1995
211	Scud Communication Pvt. Ltd.	0	1992	1992
212	Userlinks Netcom Pvt. Ltd.	0	1965	1965
213	OUTOFBOX NETWORKS PRIVATE LIMITED	0	1953	1953
214	Southnet Broadband Pvt. Ltd.	0	1935	1935
215	CORREL IT SERVICE PVT LTD	0	1920	1920
216	Mayekar Broadband Pvt. Ltd.	0	1905	1905
217	Uzaina Business India Pvt. Ltd.	0	1905	1905
218	CredenceIS Computing Pvt. Ltd.	0	1900	1900
219	Opticom Networks Pvt.Ltd	0	1864	1864
220	First Mile Digital Private Limited	0	1860	1860
221	SprIOC Web Private Limited	0	1854	1854
222	Mana Broadband Pvt. Ltd.	0	1852	1852

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
223	MAHARTH INTERNET SERVICES PRIVATE LIMITED	0	1842	1842
224	Galaxynet Connections Pvt. Ltd.	0	1840	1840
225	JDM Broadband Services Pvt. Ltd.	0	1840	1840
226	Tejays Dynamic Ltd.	27	1803	1830
227	Sanchit Infocom Pvt Ltd	0	1818	1818
228	F2H Networks Pvt. Ltd.	0	1806	1806
229	SMART NET INDIA PVT LTD	0	1800	1800
230	Elyzium Technologies Pvt. Ltd.	0	1795	1795
231	Karunay Internet Pvt. Ltd.	0	1795	1795
232	Osbnnet Broadband Pvt. Ltd.	0	1764	1764
233	Blu Ultraband Internet Services Private Limited	0	1756	1756
234	City Online AP Pvt. Ltd.	0	1744	1744
235	Seven Star Digicom Pvt. Ltd..	0	1739	1739
236	Surround Networks Pvt Ltd	0	1731	1731
237	DNS SKYLINK PVT. LTD.	0	1728	1728
238	North Point Services Pvt. Ltd.	0	1728	1728
239	Flashcom Network Pvt. Ltd.	0	1710	1710
240	Bakcom Networks India Pvt. Ltd.	1704	0	1704
241	Assistive networks & technologie Pvt Ltd	0	1701	1701
242	MORE WIFI INTERNET PRIVATE LIMITED	0	1700	1700
243	JB Jain Broadband Solutions Private Limited	0	1698	1698
244	Syntego Technologies India Pvt. Ltd.	0	1694	1694
245	Maruthi Cable & Data Pvt. Ltd.	0	1687	1687
246	Protoact Digital Network Pvt. Ltd.	0	1683	1683
247	Amar Broadband Pvt. Ltd..	0	1677	1677
248	S P Internet Technologies Pvt. Ltd.	0	1676	1676
249	BLITS GLOBAL TECHNOLOGIES Pvt. LTD	0	1667	1667
250	Ashley Internet Services Pvt. Ltd.	0	1656	1656
251	Sphier Infotech PVT. LTD.	0	1641	1641
252	Orange Waves Networks Pvt. Ltd.	0	1628	1628
253	Sadaa SmartlinksCommunication Pvt. Ltd.	0	1621	1621
254	Onet Digital Networks Pvt. Ltd..	0	1620	1620
255	Cyber City ExtremeBroadband Pvt. Ltd.	0	1612	1612
256	Netlinx Limited	0	1591	1591
257	KWIKZO TELECOMM Pvt. LTD	0	1582	1582
258	Charotar Telelink Pvt. Ltd..	0	1578	1578
259	Channel III Internet Pvt. Ltd.	0	1562	1562
260	B2H Infonet Pvt. Ltd.	0	1534	1534
261	Macro Signal Pvt. Ltd	0	1530	1530

S. No.	Name of Service Provider	Narrowband	Broadband	Total
262	Susneham Private Limited	0	1522	1522
263	Capture Network Systems Pvt. Ltd.	0	1517	1517
264	S S Fiber Net OpticalCommunication Pvt. Ltd.	0	1517	1517
265	Speednet Unique Network Pvt. Ltd.	0	1506	1506
266	Skynet Datacom Pvt. Ltd.	0	1495	1495
267	Sefaro Networks Pvt. Ltd.	0	1493	1493
268	SATHYA WEBSERVICES PRIVATE LIMITED	0	1483	1483
269	Venessa Internet Pvt. Ltd.	0	1475	1475
270	Skyline Infonet Pvt. Ltd.	0	1447	1447
271	NGC Broadband Pvt. Ltd.	0	1444	1444
272	Thrishul Broadband Pvt. Ltd..	0	1444	1444
273	Ski Network Services Pvt. Ltd	0	1421	1421
274	Kovai Fibernet Pvt. Ltd.	0	1413	1413
275	Speedmaxx Digital Networks Pvt. Ltd.	0	1412	1412
276	INET SEVICES PVT LTD	0	1407	1407
277	ALACRIY NET SYSTEM SERVICE PRIVATE LIMITED	0	1399	1399
278	ERO WIDE COMM Pvt. Ltd.	0	1389	1389
279	SIS NETWORKS PVT LTD	0	1382	1382
280	Smart Wi5 Pvt. Ltd.	0	1372	1372
281	Ncore Creative Technologies Pvt. Ltd	1367	2	1369
282	Teligus Networks Pvt. Ltd	0	1362	1362
283	Vizag BroadbandCommunications Pvt. Ltd.	0	1334	1334
284	Rtel Internet services Pvt Ltd	0	1310	1310
285	R2 Net Solutions Pvt. Ltd.	0	1304	1304
286	BHORER ALO CABLE AND BROADBAND PRIVATE LIMITED	0	1270	1270
287	Airwaves Internet Pvt. Ltd.	0	1255	1255
288	City Broadband Network Pvt Ltd	0	1248	1248
289	MAKS COMMUNICATIONS PVT.LTD.	0	1248	1248
290	Gigacast Network Pvt. Ltd.	0	1247	1247
291	POWERNET TELECOM PVT LTD	0	1246	1246
292	WNET TELECOM PRIVATE LIMITED	0	1238	1238
293	DHL Broadband Net Pvt. Ltd.	0	1231	1231
294	Country Online Services Pvt. Ltd.	0	1227	1227
295	UNITED STARS NETWORK PRIVATE LIMITED	0	1221	1221
296	Oxynet Telecommunications Pvt. Ltd	0	1216	1216
297	iIRONET COMMUNICATION PVT LTD	0	1213	1213
298	Nikita Broadband Pvt. Ltd	0	1211	1211

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
299	Mega Hertz Network Solutions Pvt. Ltd.	0	1202	1202
300	SHAILDHAR TELECOM SERVICES Pvt. LTD	0	1190	1190
301	Poem Techno Pvt. Ltd.	0	1186	1186
302	REVOLUTION BROADBAND PVT LTD	0	1177	1177
303	AMK SUNBEAM COMMUNICATION PRIVATE LIMITED	0	1152	1152
304	Sigaram Networks Pvt. Ltd.	0	1141	1141
305	Shrisai Shavenk Technologies Pvt. Ltd.	0	1134	1134
306	In Broadband Pvt.ltd	0	1121	1121
307	Veloxr Telecom Pvt. Ltd.	0	1120	1120
308	Green Tech Net Com Pvt. Ltd.	0	1118	1118
309	Click 4 Net InternetServices Pvt. Ltd.	0	1116	1116
310	DNS INFONET Pvt Ltd	0	1113	1113
311	Navkar Netsol Pvt. Ltd.,	0	1104	1104
312	ACN Fiber Pvt. Ltd.	0	1100	1100
313	Hardwork Cable & Internet services Pvt. Ltd.	0	1072	1072
314	Hostaxis Network Pvt. Ltd.	0	1070	1070
315	Al-Mairah Braodband Pvt. Ltd.	0	1060	1060
316	Shree Manoranjan Broadband Pvt. Ltd.	0	1053	1053
317	FTTX Broadband P Ltd	0	1050	1050
318	VSJ INTERNET SERVICES PVT. LTD.	0	1035	1035
319	Sharplink Wireless Solution Pvt. Ltd.	0	1027	1027
320	FASTNET COMMUNICATION PVT. LTD.	196	826	1022
321	SKY ONLINE TECHNOSYSTEM PVT LTD	0	1016	1016
322	C. J. Online Pvt. Ltd.	0	996	996
323	DA Smartzone Pvt. Ltd.	0	990	990
324	Netfirst Communications Pvt. Ltd.	0	982	982
325	AHM Digital Network Pvt Ltd	0	970	970
326	Sheng Li Telecom India Pvt. Ltd.,	0	956	956
327	Anushree Digital Network Pvt Ltd	0	944	944
328	Merv Enterprises Pvt Ltd	0	944	944
329	A.S.C.S.C. DIGITAL PRIVATE LIMITED	0	936	936
330	Spider Broadband & Cable Pvt. Ltd.	0	929	929
331	Global (India) Tele Infra Pvt. Ltd.	0	928	928
332	Grace Teleinfra Pvt Ltd	0	927	927
333	NetMagic Solutions(P) Ltd.	0	927	927
334	RK Broadband Hifi Services Pvt Ltd	926	0	926
335	Sampath Venkateswara Communications Pvt. Ltd.	0	923	923
336	Bluwaves Internet Services India Pvt. Ltd.	0	922	922

S. No.	Name of Service Provider	Narrowband	Broadband	Total
337	Packenet Solutions Pvt. Ltd.	0	918	918
338	Sarvada net Pvt. Ltd	0	917	917
339	Uttam Infranet Pvt. Ltd..	0	917	917
340	ALWAR ONLINE PVT LTD	0	910	910
341	GREEN ARROW TECHNOLOGY PRIVATE LIMITED	0	909	909
342	NTT Communications India Network Services Private Ltd.	0	906	906
343	Starlings Wireless Communications Pvt. Ltd.	0	904	904
344	Jiffy Cable & Datacom Pvt. Ltd.	0	903	903
345	OM SHIV SAI INTERNET SERVICE (OPC) PVT. LTD	0	900	900
346	Rida Communication Pvt. Ltd.	0	882	882
347	CATLA IT&ENGG. CO. PVT LTD.	0	880	880
348	Ficus Telecom Pvt. Ltd.	0	873	873
349	EBENEZAR COMMUNICATIONS PVT. LTD.	0	867	867
350	Mhatoba BroadbandPvt. Ltd	0	867	867
351	Darer Internet Services Pvt. Ltd.	0	862	862
352	Aeroway Networks Pvt. Ltd.	0	861	861
353	Pegasuswave Private Limited	0	860	860
354	Sai Dwarawati Net Services Pvt. Ltd.	0	860	860
355	KOLI'Z PRIVATE LIMITED	0	856	856
356	Skyber Broadband Service Pvt. Ltd	0	850	850
357	DREAMLINK TECHNOLOGIES PVT LTD	0	848	848
358	INTERJET INDIA PRIVATE LIMITED	0	848	848
359	IAXN TELECOM PVT LTD	0	841	841
360	AU NetworksPvt. Ltd.	0	835	835
361	CSC Wifi Choupal Services India Pvt. Ltd. (Formerly CSC e-Governance Services India Ltd.)*	0	833	833
362	SRI NETT PRIVATE LIMITED	0	832	832
363	Ultimate Internet Services Pvt. Ltd.	0	830	830
364	Reliance Communications Limited	827	0	827
365	Balaji Infra Ray Pvt. Ltd.	0	826	826
366	Nandini Broadband Pvt. Ltd.	0	826	826
367	Vinayaga Communications Pvt Ltd.	0	825	825
368	VICTORY DIGITAL NETWORK PRIVATE LIMITED	0	821	821
369	KESHAVA DIGITAL NETWORK PVT. LTD.	0	819	819
370	Rathnaa Spectra Pvt. Ltd.	0	813	813
371	Telosy Telecom Pvt. Ltd.	0	791	791

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
372	Wyris Network Pvt. Ltd.	0	781	781
373	Shineplus Networks Pvt. Ltd.	0	779	779
374	Stackbit Internet Services Pvt. Ltd.	0	773	773
375	Bapu Internet Services Pvt. Ltd.	0	768	768
376	Alegra Communication Pvt Ltd	0	763	763
377	Datawave IT solutions Pvt. Ltd.	0	763	763
378	Touchnet Broadband Services Pvt. Ltd.	0	757	757
379	SB Broadband Services Pvt. Ltd	0	756	756
380	Trueinet Networks Pvt.Ltd	0	755	755
381	Briskcom Infoway Pvt. Ltd.	0	746	746
382	Reticule Infotech Pvt. Ltd.	0	737	737
383	Shass Information and Quality Engineering Services Pvt. Ltd.	0	737	737
384	Software Technology Parks of India	10	720	730
385	Primenet Global Ltd.	0	721	721
386	SVD Digital Networks Pvt. Ltd.	0	721	721
387	Spirenet Digital Communications Pvt. Ltd.	0	720	720
388	Gleam Worldwide Services Pvt. Ltd.	0	708	708
389	Cloudnet Communications Pvt. Ltd.	0	706	706
390	KGS NETWORKS PRIVATE LIMITED	0	700	700
391	Treelink Broadband Pvt. Ltd.	0	700	700
392	Vimal Telecom Pvt. Ltd	0	694	694
393	Daksh Broadband Services Pvt. Ltd.	0	690	690
394	Power Grid Corporation of India Ltd.	0	690	690
395	TOUCH NET INDIATELESERVICES PRIVATE LIMITED	0	686	686
396	Rajesh Patel Net Services Pvt. Ltd.	3	680	683
397	Gloiosa Infotel IT Services Pvt Ltd.	0	682	682
398	PJR NET SERVICE PRIVATE LIMITED	0	681	681
399	Kosmic Broadband Pvt Ltd	0	676	676
400	Unitel Media Pvt. Ltd.	0	675	675
401	HPS DIGITAL BROADBAND PVT LTD	0	672	672
402	Suraj Networks Pvt. Ltd.	0	671	671
403	Craze IT Solutions Pvt Ltd	0	667	667
404	BASS NETWORKS PRIVATE LIMITED	0	661	661
405	ACME Diginet Corporation Pvt. Ltd.	0	654	654
406	Spectram Telecom Pvt.Ltd	0	650	650
407	NETSAT COMMUNICATIONS PVT. LTD.	0	648	648
408	Bass Jokernet Pvt. Ltd.	0	643	643
409	Asg Telecom Pvt. Ltd	0	642	642

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
410	Bandwidth Infinity Pvt. Ltd	0	633	633
411	Blue Net IT Solutions Pvt. Ltd.	0	631	631
412	SERANS FIBERNET PRIVATE LIMITED	0	631	631
413	SG Broadband Internet Pvt. Ltd.	0	624	624
414	CNS Infotel Services Pvt. Ltd..	0	617	617
415	LIMERICK TECHNOLOGIES PRIVATE LIMITED	0	616	616
416	Airnetz Broadband Services Pvt. Ltd.	0	613	613
417	Datamax Technologies Pvt Ltd	0	611	611
418	Digiscope Networks Private Limited	0	610	610
419	Airway Communication Services India Pvt. Ltd.	0	608	608
420	Windsor Internet Pvt. Ltd.	0	608	608
421	Nextra Communications Private Limited	0	606	606
422	Smart Choice Wireless Network Pvt. Ltd.	0	602	602
423	Easy Solutions InternetServices Pvt. Ltd.	0	600	600
424	Ometa Net Pvt. Ltd.	0	597	597
425	Gowio Networks Pvt. Ltd	0	596	596
426	ALLIED IT INFRASTRUCTURE & SERVICES PRIVATE LIMITED	595	0	595
427	RSBS Online Services Pvt. Ltd.	0	595	595
428	VIVA Communications Pvt Ltd	0	591	591
429	Clickian Network Pvt. Ltd.	0	588	588
430	Unisas Netserve Pvt. Ltd.	0	586	586
431	MAXNET DIGITAL PRIVATE LIMITED	0	584	584
432	Sivaan Infocom Pvt. Ltd	0	577	577
433	Kad-Syscon NetworksPvt. Ltd	0	576	576
434	NEONET COMMUNICATIONS PVT. LTD.	0	574	574
435	SHEEN TELECOM CONSULTANTS PVT LTD	0	572	572
436	Alphanet Broadband Pvt Ltd	0	571	571
437	SARVA AIRWORLD NETWORK PVT LTD	0	568	568
438	Skylink Fibernet Pvt. Ltd.	0	567	567
439	RAAGAV COMMUNICATIONS PVT LTD	0	564	564
440	Nanjil Internet Services Pvt. Ltd.	0	560	560
441	Gazillio Technologies Pvt. Ltd.	0	557	557
442	MSINFINITY ETHERNET SOLUTIONS PRIVATE LIMITED	551	0	551
443	Digital2Virtual ISP Pvt. Ltd.	0	549	549
444	Panav Network and Communications Private Limited	0	548	548
445	Wi-Link Network Pvt. Ltd	0	545	545

S. No.	Name of Service Provider	Narrowband	Broadband	Total
446	Fastnet Wire & Wireless Solutions Pvt. Ltd.	0	543	543
447	INCUBIX UNIFIED SOLUTIONS PRIVATE LIMITED	0	542	542
448	Prayag BroadbandPvt. Ltd.	0	540	540
449	Acegen Broadband Pvt. Ltd.	0	538	538
450	Goodwill Smartlink Pvt. Ltd.	0	537	537
451	Graceway Infrastructure and Services Pvt. Ltd	0	530	530
452	Imperium Digital Network Pvt. Ltd.	0	520	520
453	NC BROADBAND SERVICES PRIVATE LIMITED	0	520	520
454	DE-CIX Interwire Internet Services Pvt. Limited	0	519	519
455	RNET GIGAFIBER Pvt. LTD	514	0	514
456	Manish Infocom Pvt. Ltd.	0	511	511
457	Mall and Mall Digiworld Pvt. Ltd.	0	510	510
458	Unigro Infranet Online Pvt. Ltd.	0	510	510
459	Breitband Technologies Private Limited	0	500	500
460	Dhanam Internet Services India Pvt. Ltd.	0	500	500
461	Cityline Networks Pvt Ltd	0	496	496
462	RACSANN TECHNOLOGIES PVT. LTD.	0	495	495
463	KSK Broadband Pvt. Ltd.	0	494	494
464	Hughes Communications India Ltd.	36	456	492
465	Royal Connect Solutions Pvt. Ltd	0	492	492
466	Faiconet Internet Pvt Ltd	0	490	490
467	Development Logics Solutions Pvt. Ltd.	0	488	488
468	Moradabad Internet Services Pvt. Ltd.	0	484	484
469	JMD INTERNET AND SERVICES PVT. LTD.	0	477	477
470	Texas Connect Private Limited	0	475	475
471	GIGANET DIGITAL NET SERVICES PRIVATE LIMITED	0	469	469
472	7 Sai Net Solutions Pvt. Ltd.	0	458	458
473	OPTO Communications Private Limited	0	456	456
474	ARJUN BROADBAND PRIVATE LIMITED	0	453	453
475	GTECH COMMUNICATION Pvt Ltd	0	451	451
476	Quick Link Broadband and Services Pvt. Ltd.	0	443	443
477	MREZHI INTERNET PRIVATE LIMITED	0	440	440
478	Daan Communications Private Limited	0	438	438
479	KKM Broadband Internet Pvt. Ltd.	0	438	438
480	Unborn Networks Pvt. Ltd.	0	438	438
481	BPS COMMUNICATION AND SERVICES PRIVATE LIMITED	0	435	435
482	Prompt Infracom Pvt. Ltd.	0	430	430



<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
483	FASTCOM TELELINK PRTVATE LIMITED	0	428	428
484	Sistemas Information Technology Pvt. Ltd.	0	428	428
485	YES BROADBANDPRIVATE LIMITED	0	428	428
486	Earthlink Broadband Pvt. Ltd	0	425	425
487	Shivraj Broadband Internet Pvt. Ltd.	0	422	422
488	I-Infolink Networks Pvt. Ltd.	0	419	419
489	Sysnet Broadband Services Pvt. Ltd.	0	417	417
490	Nandita Infocom Pvt. Ltd.	0	414	414
491	DMDS SOLUTIONSPRIVATE LIMITED	0	413	413
492	TRACKNET SERVICES PVT LTD	0	413	413
493	Simplex Broadband Pvt. Ltd.	0	411	411
494	Pimoonny Broadband Services Pvt. Ltd.	0	410	410
495	DMP Internet ServicesPvt. Ltd	0	406	406
496	Malang Solutions Pvt. Ltd.	0	405	405
497	Gera Cable Internet Service Pvt. Ltd.	0	403	403
498	RUSH ME BROADBAND PRIVATE LIMITED	0	403	403
499	SIDDIQUI GLOBAL SERVICES PVT LTD	0	403	403
500	3J Global Services Pvt Ltd	0	398	398
501	HANUMAT NETWORKS PRIVATE LIMITED	0	397	397
502	Wireline Solution India Pvt Ltd	0	395	395
503	PULSE TELESYSTEMS PRIVATE LIMITED	0	394	394
504	Wavetree Networks Pvt. Ltd.	0	390	390
505	Visputes Internet Pvt. Ltd.	0	388	388
506	Clicknet Communication Pvt. Ltd.	0	387	387
507	VORRUCKEN NETWORKS PRIVATE LIMITED	0	382	382
508	BSL Technologies Pvt. Ltd.	0	381	381
509	Sparklink. Net Pvt. Ltd.	0	376	376
510	COMPLIANCE BROADBAND PRIVATE LIMITED	0	375	375
511	Cybernet Introtech Pvt. Ltd.	0	375	375
512	Starnet Global Pvt. Ltd.	0	370	370
513	Rocketwire Internet Solutions Pvt. Ltd.	0	365	365
514	Suncity Broadband Pvt. Ltd.	0	365	365
515	VPM NETWORKS PRIVATE LIMITED	0	362	362
516	Citylink Broadband Services Pvt. Ltd.	0	357	357
517	Orange City InternetServices Pvt. Ltd.	0	354	354
518	Varsha Datacom Services Pvt. Ltd.	0	341	341
519	AT&T Global Network Service India Private Limited	0	340	340

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
520	Speedster Communications Pvt. Ltd	0	340	340
521	ST Network Solutions Pvt. Ltd.	0	340	340
522	Voxterria Innovtions Pvt. Ltd.	0	338	338
523	Linkio Fibernet Private Limited	0	336	336
524	TECHNOMEX INFOCOM SYSTEMS PVT LTD.	0	335	335
525	VERYS INFOTECH PRIVATE LIMITED	0	335	335
526	PRONET PRIVATE LIMITED	0	334	334
527	Sai Akshay Internet Services Pvt Ltd.	0	332	332
528	Kataria Net Solutions Pvt. Ltd.	0	331	331
529	Twincity Communication Private Limited	0	328	328
530	R N Broadband Online Pvt. Ltd	0	325	325
531	RN Broadband Online Pvt. Ltd.	0	325	325
532	Elecon Information Technology Ltd.	0	318	318
533	Inter Net LY Pvt. Ltd.	0	313	313
534	Terrafiber Networks Pvt. Ltd.	0	312	312
535	AARADHY LIAISON SERVICES PRIVATE LIMITED	0	309	309
536	CONSAM TELECOM PRIVATE LIMITED	0	308	308
537	Gramin Broadband Network Pvt. Ltd.	0	307	307
538	Srushti Broadband And Internet Services Pvt. Ltd.	0	304	304
539	TRIVNET NETWORKS PRIVATE LIMITED	0	304	304
540	Apex Netcom India Pvt. Ltd..	0	300	300
541	Hipoint Connect Pvt. Ltd.	0	300	300
542	Hyber Networking Pvt. Ltd.	0	300	300
543	AiriconCommunication Pvt. Ltd	0	299	299
544	Digital Telco Network India Pvt. Ltd.	0	298	298
545	METREXA BROADNET PRIVATE LIMITED	0	298	298
546	Aayu Infonet Pvt. Ltd.	0	297	297
547	Bluenet Broadband Services Pvt. Ltd.	0	293	293
548	WAY2AIR NET SOLUTION PVT. LTD.	0	290	290
549	Sense Connect IT Pvt. Ltd.	0	288	288
550	STN Communication & Advertising Pvt. Ltd.	0	288	288
551	GPALV BROADBAND PRIVATE LIMITED	0	281	281
552	Verizon Communications India Pvt. Ltd.	0	281	281
553	Vizcon Digital Pvt. Ltd.	280	0	280
554	Skyhunt IT Park Pvt. Ltd.	0	279	279
555	SMARTLINK BROADBAND SERVICES PVT LTD	0	279	279
556	GOMTESH INFOTECH PVT. LTD.	0	277	277

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
557	JBN Online Pvt. Ltd.	0	275	275
558	SIDDBALI INFOTECH PVT LTD.	0	275	275
559	Vardaan Netservices Pvt. Ltd.	0	271	271
560	J-Link Infotainment Pvt. Ltd.	0	270	270
561	HELM CONSULTANTS PVT LTD	0	269	269
562	Proline Datatech Services Pvt. Ltd.	0	266	266
563	Delix Net Solutions Pvt. Ltd	0	264	264
564	Excel UG Pvt. Ltd	0	261	261
565	Singh Internet Services Pvt. Ltd.	0	260	260
566	Ecreado Network Solutions Pvt. Ltd.	0	259	259
567	VDCN INFOTECH PRIVATE LIMITED	0	256	256
568	Auspice Infratel Pvt. Ltd.	0	255	255
569	Ruhban Telecommunication Private Limited	0	254	254
570	Alien DNS Pvt. Ltd.	0	253	253
571	SPEEDGLOBAL TELECOM NETWORK PRIVATE LIMITED	0	250	250
572	VIVEK NETWORK PRIVATE LIMITED	0	250	250
573	Zoram Infonet Pvt. Ltd.	0	250	250
574	Nivak Communications Pvt. Ltd	0	249	249
575	Ekowebtech IT Services Private Limited	0	246	246
576	SNT Broadband Pvt. Ltd.	0	246	246
577	SPARKLIGHT INTERNET PRIVATE LIMITED	0	245	245
578	TEJNET GIGAFIBER PRIVATE LIMITED	0	240	240
579	Shri Samarth Infobahn Pvt. Ltd.	0	239	239
580	AEROLINK BROADBAND PRIVATE LIMITED	0	238	238
581	Microsense Pvt Ltd	0	237	237
582	Netrexo Communications Private Limited	0	237	237
583	Neton Icom Pvt. Ltd.	0	234	234
584	airtechzone services india private limited	0	232	232
585	Barani Data Solutions Private Limited	0	232	232
586	MANAS INTERNET TECHNOLOGY PRIVATE LIMITED	0	230	230
587	Hipath Netcom Services Pvt. Ltd.	0	228	228
588	Magnuss Broadband Service Pvt. Ltd.	0	228	228
589	ZEES BROAD BAND PRIVATE LIMITED	0	228	228
590	King Netsol Pvt. Ltd.	23	204	227
591	VN ETHERNET INDIA PRIVATE LIMITED	227	0	227
592	AIT Internet Services Pvt. Ltd.	0	222	222
593	Rmax Broadband Pvt. Ltd.	0	222	222

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
594	Peer Networks Private Limited	0	221	221
595	ACEBROWSE PVT LTD	0	219	219
596	CIT SOLUTIONS PVT. LTD.	0	217	217
597	Data Ingenious Global Ltd	0	217	217
598	Vrednus Network Pvt. Ltd.	0	214	214
599	iBus Network & Infrastructure (P) Ltd.	0	212	212
600	Anish Infoline Pvt. Ltd.	0	211	211
601	Enhancelink CoreportPvt. Ltd	0	211	211
602	Optisky Fibernet Pvt. Ltd.	0	210	210
603	YNET BROADBAND SERVICES PRIVATE LIMITED	0	210	210
604	Yuva Communications Private Limited	0	209	209
605	Airwire Infocom Pvt. Ltd.	0	208	208
606	Saibaba Broadband Pvt. Ltd.	0	206	206
607	S.V.C CABLE NET PRIVATE LIMITED	0	205	205
608	BBRG Communication and Internet Pvt. Ltd.	0	202	202
609	SSICON SYSTEMS PRIVATE LIMITED	0	202	202
610	VAIDIK NETSOL OPC PVT LTD	0	202	202
611	Dhadam Hospitality & Services Pvt. Ltd.	0	200	200
612	Ishani Broadband Pvt Ltd	0	200	200
613	Tamana Winet Pvt. Ltd.	0	200	200
614	EYE FASTNET SERVICE PRIVATE LIMITED	0	198	198
615	NAS INTERNET SERVICES PVT LTD	0	197	197
616	Fastx Broadband Pvt. Ltd.	0	192	192
617	AKD NETWORK PRIVATE LIMITED	0	190	190
618	FRIDDEN INFOWAY PVT. LTD..	0	189	189
619	Cheetah Networks Pvt. Ltd.	0	188	188
620	Frontier Infra Communications(P) Ltd.	0	187	187
621	Wi5 Internet Services Pvt. Ltd.	0	187	187
622	M-TEL Networks (P) Ltd	0	186	186
623	Pune Teleinfra Pvt. Ltd..	0	185	185
624	SFOUR CABLENET PVT LTD	0	185	185
625	JAYBHOLE CABLE VISION PRIVATE LIMITED	0	184	184
626	AIRMAX INTERNET PVT LTD	0	181	181
627	VMO BROADBAND PVT LTD	0	180	180
628	White Stallion Networks Pvt. Ltd.	0	179	179
629	Antariksh Broadband & Wireless Solution Pvt. Ltd.	0	178	178
630	Rae Internet Service Provider Pvt Ltd	0	171	171

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
631	Shreepad Communication Pvt. Ltd.	0	171	171
632	CINFOGEN PRIVATE LIMITED	0	170	170
633	PMG Networks Pvt. Ltd.	0	170	170
634	Sify Technologies Ltd.	0	170	170
635	JTM Internet Pvt. Ltd	0	169	169
636	Costel Networks Pvt. Ltd.	0	167	167
637	Oistel Telecom Pvt. Ltd.	0	166	166
638	Fibernetisp Pvt. Ltd.	0	165	165
639	SRI RAM BROADBAND SERVICES PRIVATE LIMITED	0	163	163
640	Wifi Inter-connect Pvt. Ltd.	0	162	162
641	ARP INFONET PVT. LTD.	0	159	159
642	Onepipe Telecom Pvt. Ltd	0	159	159
643	PRSHREE Networks Private Limited	0	159	159
644	Vaishnavaibhavi Internet Solutions Private Limited	0	157	157
645	Viking Network Pvt. ltd	0	157	157
646	Noob Technologies Pvt.Ltd	0	152	152
647	NEXTGEN COMPUSOFT PVT LTD	0	151	151
648	iGEN Networks Private Limited	0	150	150
649	Prateek Netconnect Pvt. Ltd	0	150	150
650	Digitizer Access Network Private Limited	0	149	149
651	Netstra Communications Pvt.. Ltd.	0	147	147
652	Fabnet Services Private Limited	0	145	145
653	Sath Technologies Pvt. Ltd.	0	145	145
654	Achiever Communication and Services Pvt. Ltd.	0	144	144
655	VISHWAKARMA BROADBAND PRIVATE LIMITED	0	143	143
656	Ezeenet Internet Solutions Pvt. Ltd.	0	142	142
657	Rita Infocom Pvt. Ltd.	0	142	142
658	Triple Link Pvt. Ltd.	0	141	141
659	SHIVKRANTI INTERNET SERVICES PVT. LTD.	0	140	140
660	Teleglobal Communiocations pvt Ltd	139	0	139
661	LIGHT AIR TRANSMISSION PVT. LTD.	0	138	138
662	JD Net Enterprises Pvt. Ltd	0	137	137
663	Vision Hi-Speed Technology Pvt. Ltd.	0	137	137
664	Mediatech Communication Pvt. Ltd.	0	135	135
665	Pyramid Infocom Pvt. Ltd.	133	0	133
666	YOTTA NETWORK SERVICES PRIVATE LIMITED	0	133	133

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
667	Airfiber IT Solutions Pvt. Ltd.	0	132	132
668	GauravCommunication Pvt. Ltd	0	132	132
669	Galvin Broadband (OPC) Pvt. Ltd.	0	130	130
670	LINKUNIVERSE COMMUNICATION PRIVATE LIMITED	0	129	129
671	Shree Siddhivinayak Cable And Internet Service Provider Private Limited.	0	129	129
672	Wingsnet Internet Pvt.Ltd	0	129	129
673	MLC INTERNET PVT LTD	0	126	126
674	BT Global Communication India Pvt. Ltd.	0	125	125
675	Linkup Networks Pvt. Ltd.	0	125	125
676	Sreedevi Communications Private Limited	0	125	125
677	Jasnet Networks Pvt. Ltd.	0	124	124
678	A-Net Communication India Pvt.Ltd.	0	123	123
679	CLOUDINSTA24 SERVICES PRIVATE LIMITED	0	123	123
680	NT CYBRONET PRIVATE LIMITED	0	123	123
681	Nuozen Telecom Pvt. Ltd.	0	123	123
682	Excogitate Technologies Pvt. Ltd.	0	121	121
683	Blenda Internet ServicesIndia Pvt. Ltd.	0	119	119
684	INYCB Network Pvt. Ltd.	0	118	118
685	LEVOTEL BIGNET SOLUTIONS PRIVATE LIMITED	0	118	118
686	V NET NETWORKS PVT. LTD	0	118	118
687	ASVISH TECHNOLOGY PARTNER (OPC) PVT LTD	0	116	116
688	Sharktel Infocom Pvt. Ltd.	0	116	116
689	Pronoc Technologies Pvt. Ltd.	0	113	113
690	Telstra Telecommunications Private Limited	0	111	111
691	Amity Hua Electronics Pvt. Ltd.	0	110	110
692	Japra Tele Link Pvt. Ltd.	0	110	110
693	NR IT Service Pvt. Ltd.	0	109	109
694	Durga Broadband Pvt. Ltd.	0	108	108
695	Chaitali Communications (OPC) Pvt.Ltd	0	107	107
696	Khetan Cable Network (P) Ltd	0	107	107
697	Netlife Network Pvt. Ltd..	0	107	107
698	ITech Hive Pvt. Ltd	0	106	106
699	Skynet Broadband Pvt. Ltd.	0	105	105
700	AXOMNET BROADBAND Pvt. LTD.	0	103	103
701	Jetato Skynet Services Pvt. Ltd.	0	102	102
702	Promptnet Broadband Pvt. Ltd.	0	102	102

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
703	ROYAL WIRELESS SERVICES PVT LTD	0	102	102
704	TREELINK NETWORK PVT LTD	0	102	102
705	Aircables Internet Services Pvt. Ltd.	0	101	101
706	Invensys Networks Pvt.Ltd.	0	101	101
707	MICRONOVA TELE SYSTEMS PRIVATE LTD.	0	100	100
708	FLIX BROADBAND SERVICES PRIVATE LIMITED	0	99	99
709	Broad Net India Pvt. Ltd.	0	97	97
710	Skyney Broadband Pvt Ltd	0	96	96
711	Magica Networking Solutions Pvt. Ltd.	0	94	94
712	Satpar Infotech Pvt Ltd	0	93	93
713	Patil ISP Services (OPC) Pvt. Ltd.	0	90	90
714	Winet Infratel Pvt. Ltd.	0	90	90
715	INFINITY WIRELESS SERVICES PVT. LTD.	0	89	89
716	Omkar Net Services Pvt. Ltd.	0	89	89
717	S A Internet Solution Pvt Ltd	0	89	89
718	YNET TELECOM SOLUTIONS PVT LTD	0	89	89
719	Gaxiom Networking Solutions Private Limited	0	88	88
720	Inic Communications Private Limited	0	88	88
721	Spark Telecommunication Private Limited	0	87	87
722	Hari Om Netsol Pvt. Ltd.	0	86	86
723	ANODIC TELENETWORK PVT LTD	0	85	85
724	GIGHZ IT SOLUTIONS PRIVATE LIMITED	0	85	85
725	ASHOKA NETSOL PVT LTD	0	84	84
726	Veer Point Pvt. Ltd.	0	81	81
727	G-Max IT Services Pvt. Ltd.	0	80	80
728	Denet Connect Services Pvt Ltd	0	79	79
729	NAS Broadband Pvt. Ltd	0	79	79
730	IndrayaniCommunication Pvt. Ltd	0	77	77
731	Sanavi Infotech (OPC) Pvt. Ltd.	0	75	75
732	Shri Vinayagaa Internet Pvt Ltd	0	74	74
733	Bilal Internet Services Private Limited	0	73	73
734	Creative BroadbandServices Pvt. Ltd	0	73	73
735	Netwire Internet Solutions Pvt. Ltd.	0	72	72
736	NR Data Service Pvt Ltd.	0	72	72
737	SHERAWAT INFOTECH PRIVATE LIMITED	0	72	72
738	MABA SAFENET BROADBAND SERVICES PVT LTD	0	70	70
739	IKRA Broadband Private Limited	0	69	69
740	SMPL Networks Pvt. Ltd.	0	69	69

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
741	Ekdant Communication Pvt. Ltd.	0	67	67
742	Aspire Broadband Pvt. Ltd.	0	66	66
743	E I DOT Com Pvt. Ltd.	0	66	66
744	SPEEDNET INFORMEDIA PVT LTD	0	65	65
745	Jai Mata Di Teletronix Pvt. Ltd.	0	64	64
746	NSD Internet Private Limited	0	64	64
747	Quantasoul Airologix Pvt. Ltd.	0	61	61
748	DNet E Solutions Pvt. Ltd.	0	61	61
749	Gponspace Internet India Pvt. Ltd.	0	61	61
750	Hansin IT Services Private Limited	0	61	61
751	Broadstar Net India Pvt. Ltd.	0	60	60
752	Kim Broadband Services Pvt. Ltd.	0	60	60
753	Heramb T-10 Network Pvt. Ltd..	0	59	59
754	Malachandra Broadband Services Private Limited	0	58	58
755	V NETCARE PRIVATE LIMITED	0	57	57
756	Infiber Broadnet Pvt. Ltd.	0	56	56
757	Trivoz Digital Networks Pvt. Ltd.	0	55	55
758	Aamak Network Pvt. Ltd.	0	54	54
759	Bloglytics Internet Pvt.Ltd	0	54	54
760	FASTJET TELECOM PRIVATE LIMITED	0	54	54
761	GURU NETCOM PVT. LTD.	0	54	54
762	Jet Netcom Broadband Pvt. Ltd.	0	54	54
763	PAWAN BROADBAND INDIA PVT LTD	0	52	52
764	Tiruppur Broadwave Pvt. Ltd.	0	52	52
765	VIDARBHA WI-FI AND NETWORK SERVICES PVT LTD.	0	52	52
766	Ajay Cable & Broadband Service OPC Pvt. Ltd	0	51	51
767	NIVID TELECOM INDIA PRIVATE LIMITED	0	50	50
768	Highnet Broadband & Technologies Pvt. Ltd.	0	49	49
769	Samruddhi Communication Pvt. Ltd.	0	49	49
770	Nextra Teleservices Pvt. Ltd.	0	48	48
771	Pier Communication Pvt. Ltd	0	48	48
772	A M Broadband Pvt.Ltd	0	47	47
773	Fibernet Solutions (OPC) Pvt. Ltd.	0	47	47
774	S.G.I.C SERVICES PRIVATE LIMITED	0	46	46
775	LEROY NETWORKS AND SERVICES PRIVATE LIMITED	0	44	44
776	JAGUAR BYTE TECHNOLOGY PRIVATE LIMITED	0	43	43
777	R3ESOLUTION Pvt Ltd.	0	43	43



<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
778	SGCI Pvt. Ltd.	0	42	42
779	Ziptel IT Solutions Pvt. Ltd.	26	15	41
780	Edge Telecommunications Pvt. Ltd.	40	0	40
781	Jmohit Cable Vision Pvt. Ltd.	0	40	40
782	Orange Business Services India Network Pvt. Ltd.	0	40	40
783	Saagars Channel Pvt. Ltd.	0	40	40
784	Gigalo Communication Private Limited	0	39	39
785	TLN COMMUNICATION PRIVATE LIMITED	0	39	39
786	Divine Broadband Services Pvt. Ltd.	0	38	38
787	Broadband Pacenet (I) Pvt. Ltd.	37	0	37
788	SAMVAD TELECOM	0	37	37
789	VR INTERNET PRIVATE LIMITED	0	36	36
790	BEAURACK VELOCITY INFOCOM PVT LTD	0	36	36
791	R.P. World Telecom Pvt. Ltd.	0	36	36
792	Sheetalinternet Services Private Limited	0	36	36
793	FASTHOOK NETWORKS PVT LTD	0	35	35
794	Streamax Broadband Services Pvt. Ltd	0	34	34
795	Tarantula WebNetworks Pvt. Ltd.	0	34	34
796	Bajpai Telecom Pvt. Ltd.	0	30	30
797	Doonbroadband Pvt. Ltd.	0	30	30
798	Mesh Infranet Pvt. Ltd.	0	29	29
799	DENSIS ONLINE PVT LTD	0	28	28
800	Skynet Zone Wifi Services (P) Ltd.	0	28	28
801	WE INTERNET LIMITED	0	27	27
802	Praveen Telecom Pvt. Ltd.	0	26	26
803	Spacetrade Internet Pvt Ltd	0	26	26
804	Aerocast Networks Pvt Ltd.	0	25	25
805	DRONAGIRI INFOTECH PVT LTD	0	25	25
806	Sudhana Telecommunication Pvt Ltd.	0	25	25
807	Pacific Internet India Pvt. Ltd.	0	23	23
808	LIVE FIBERNET SERVICE PRIVATE LIMITED	0	22	22
809	Smartware Technologies Pvt. Ltd.	0	22	22
810	Pintwire Infomatics Pvt. Ltd.	0	21	21
811	SmchondheCommunication Pvt. Ltd	0	21	21
812	Passcom System and Services Pvt. Ltd.	0	19	19
813	Sun Broadband and Data Services PVT. LTD.	0	18	18
814	Unified Voice Communication Pvt. Ltd.	0	18	18
815	ERNET India	0	17	17

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
816	Hienet Internet Services Pvt. Ltd.	0	16	16
817	Nelco Ltd.	5	11	16
818	RAJNET CARE PRIVATE LIMITED	0	16	16
819	Microtel Internet Network Pvt. Ltd.	0	15	15
820	Marutham Networks Pvt. Ltd.	0	14	14
821	SPEEDPULSE DIGITAL NETWORK PRIVATE LIMITED	0	14	14
822	ANGROW NETCOMM PRIVATE LIMITED	0	12	12
823	Kartik Network Pvt. Ltd.	0	12	12
824	DAVA TELECOM PRIVATE LIMITED	0	11	11
825	HELLO NETWORK SERVICE Pvt Ltd.	0	10	10
826	Mastek Infosystems OPC Pvt. Ltd.	0	10	10
827	Ultrawave Internet Access Pvt. Ltd.	4	6	10
828	Upnet Communications Pvt. Ltd.	0	10	10
829	VISHVA INFRATEL PRIVATE LIMITED	0	10	10
830	Ceralink Communication Pvt Ltd	9	0	9
831	Fibmesh IN Limited	0	9	9
832	WORLD PHONE INTERNET SERVICES PVT LTD	0	9	9
833	Tatanet Services Ltd	0	8	8
834	Uttradoon Networks Pvt. Ltd.	0	8	8
835	BRIGHTNET INTERNET SOLUTIONS (OPC) PRIVATE LIMITED	0	7	7
836	CIFY IT Services Pvt. Ltd.	0	7	7
837	Clear Beam Communication Pvt. Ltd.	0	7	7
838	Financial Technologies Communication Ltd.	0	7	7
839	Riyaz Internet Services Pvt. Ltd.	0	7	7
840	FURIOUSPEED PRIVATE LIMITED	0	6	6
841	Aristo Telenet Pvt Ltd	0	5	5
842	OM INTERNET BROADBAND SERVICE Pvt. LTD	0	5	5
843	ZAPTIC PRIVATE LIMITED	0	5	5
844	CLOUD8IN TECHNOLOGIES PRIVATE LIMITED	0	4	4
845	Critel Technologies Pvt. Ltd.	0	4	4
846	ESP Fibernet Pvt. Ltd.	0	4	4
847	ESTO MEDIA PRIVATE LIMITED	0	4	4
848	UBERCORE DATA LABS PVT LTD	0	4	4
849	A TO Z INFOLINK PVT. LTD.	0	3	3
850	AGILE NETLINK PRIVATE LIMITED	0	3	3
851	Cloudcast Digital Ltd.	0	3	3

<b>S. No.</b>	<b>Name of Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
852	GBLINK NETWORKSOLUTIONS PRIVATE LIMITED	0	3	3
853	Blueline ISP Pvt. Ltd	0	2	2
854	GEGA BROADBAND SOLUTION PRIVATE LIMITED	0	2	2
855	Hybrid Hash Pvt. Ltd.	0	2	2
856	My Digital NetworkLtd.	0	2	2
857	Sabse Internet Service Provider Pvt. Ltd.	0	2	2
858	FLYFAST CONNECTIONS Pvt. LTD	0	1	1
859	Sahiba Silk Mills Pvt. Ltd.	0	1	1
860	SHYAM DATA & VOICE SERVICES PVT LTD	0	1	1
	<b>Total</b>	<b>35013441</b>	<b>815934058</b>	<b>850947499</b>
	<b>Total (in million)</b>	<b>35.013</b>	<b>815.934</b>	<b>850.947</b>

The information is compiled based on the reports being received from the Internet Service Providers

**Annexure 1.6: Telecom Service Area-wise Public Wi-Fi Hotspots, as on  
30<sup>th</sup> September, 2022**

<b>S.No.</b>	<b>LSA</b>	<b>Sum of Number of Public Wi- Fi Hotspots</b>	<b>Sum of Number of Access Points</b>	<b>Sum of Number of unique Wi-Fi Users</b>	<b>Sum of Aggregate Data Consumed (GB)</b>
1	Andhra Pradesh	10180	21015	438647	376213
2	Assam	788	1722	107178	97930
3	Bihar	33914	38537	760770	723798
4	Delhi	11772	22437	2450300	10657112
5	Gujarat	7318	15894	724879	1465247
6	Haryana	6633	10046	101175	73362
7	Himachal Pradesh	1148	2310	12553	14003
8	Jammu & Kashmir	1528	3236	35297	31435
9	Karnataka	8635	26337	271462	179314
10	Kerala	3949	8022	437036	266819
11	Kolkata	514	7247	206797	122802
12	Madhya Pradesh	18544	36453	356353	349903
13	Maharashtra	16900	25670	339132	256517
14	Mumbai	1001	13896	839731	313539
15	North East	1462	2965	38819	76291
16	Odisha	3654	5754	144827	150034
17	Punjab	9738	12377	98229	92671
18	Rajasthan	3272	8110	245027	208621
19	Tamil Nadu (including Chennai Service Area)	2278	7035	165170	150241
20	Uttar Pradesh East	19538	77795	445060	395049
21	Uttar Pradesh West	10837	41803	178524	207137
22	West Bengal	3386	5229	399463	413339
	<b>Total</b>	<b>176989</b>	<b>393890</b>	<b>8796429</b>	<b>16621376</b>

\* The information is compiled based on the reports being received from the Internet Service Providers

**Annexure 1.7: List of Service Providers which reported IP Telephony Minutes for Q.E. Sep-22**

<b>S. No.</b>	<b>Name of Service Providers reported IP Telephony Minutes as on 30<sup>th</sup> September 2022</b>
1	Alliance Broadband Services Pvt. Ltd.
2	Asianet Satellite Communications Ltd.
3	Blazenet Ltd.
4	City Online Services Ltd.
5	Citycom Networks Pvt. Ltd.
6	delDSL Internet Pvt Ltd
7	Pulse Telesystems Pvt. Ltd.
8	Sify Technologies Ltd.
9	Tata Communications Limited
10	Trikon Electronics Pvt. Ltd.
11	World Phone Internet Services Pvt. Ltd.
12	You Broadband & Cable India Pvt. Ltd.
13	Warmconnect Internet Services Pvt. Ltd.

### Annexure 1.8: Service Area wise PMRTS subscriber Base

S.No.	DOT Licensed Service	Area Served	Service Provider	Subscriber Base	
				30.06.2022	30.09.2022
1	Andhra Pradesh	Hyderabad	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	2,910	2,955
			QuickCall	988	1,004
		Visakhapatnam	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	3,902	4,011
<b>Total</b>				<b>7,800</b>	<b>7,970</b>
2	Delhi	Delhi	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,355	7,384
			Procall Ltd.	3,680	3,724
		<b>Total</b>			
3	Gujarat	Ahmedabad	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	954	1,027
			Inative Networks Pvt. Ltd.	-	-
		Bharuch	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,511	1,479
			Inative Networks Pvt. Ltd.	-	-
		Dahej	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,484	1,453
		Jamnagar	Inative Networks Pvt. Ltd.	360	360
			Inative Networks Pvt. Ltd.	205	205
		Surat	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,755	1,735
			Inative Networks Pvt. Ltd.	895	900
		Vadodara	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,886	1,803
Inative Networks Pvt. Ltd.	360		360		
<b>Total</b>				<b>9,410</b>	<b>9,322</b>
4	Karnataka	Bangalore	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,446	7,530
			QuickCall	480	472
		<b>Total</b>			
5	Kerala	Ernakulam	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	998	1,059
			Kerala	Wiwanet Solutions Pvt. Ltd	1,046
		<b>Total</b>			
6	Kolkata	Kolkata	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	<b>1,545</b>	<b>1,501</b>
7	Madhya Pradesh	Indore	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	<b>1,753</b>	<b>1,742</b>
8	Maharashtra	Khandala	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	-	262
			Pune	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	2,113
			Smartalk Pvt Ltd.	704	694
<b>Total</b>				<b>2,817</b>	<b>2,851</b>
9	Mumbai	Mumbai	Airtalk Solutions & Services Pvt. Ltd.	550	592
			Arya Omnitalk Radio Trunking Services Pvt.Ltd.	9,690	9,537
			Bhilwara Telenet Services Pvt.Ltd.	876	882
			Smartalk Pvt Ltd.	897	876
<b>Total</b>				<b>12,013</b>	<b>11,887</b>
10	Rajasthan	Jaipur	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	880	861
			Procall Ltd.	498	494
		<b>Total</b>			
11	Tamil Nadu	Chennai	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,822	7,561
			QuickCall	505	419
		<b>Total</b>			
<b>Grand Total</b>				<b>66,048</b>	<b>65,823</b>

**Annexure 2.1: Wireless Revenue Service - Service Area wise Statistics for  
QE Sep, 2022**

**Key parameters for service areas of category-A**

Service Area	% of pre-paid in total subscribers	ARPU (Rs. per month)	Total usage (from & outside HSA) per subscriber per month			
			Outgoing SMS	Outgoing MOU	Incoming MOU	Total MOU
AP	93.38%	168	12	439	433	872
Gujarat	93.76%	150	17	362	352	714
Karnataka	88.68%	166	15	440	434	873
MH	93.74%	151	13	369	363	731
TN (incl. Chennai)	91.70%	166	11	408	409	817

**Key parameters for service areas of category-B**

Service Area	% of pre-paid in total Subscribers	ARPU (Rs. per month)	Total usage (from & outside HSA) per subscriber per month			
			Outgoing SMS	Outgoing MOU	Incoming MOU	Total MOU
Haryana	92.75%	114	8	401	401	803
Kerala	96.50%	156	6	318	324	642
MP	95.01%	127	14	414	416	829
Punjab	94.11%	141	9	394	387	781
Rajasthan	95.72%	134	13	442	444	886
UP(E)	96.43%	105	11	534	553	1087
UP(W)	96.44%	118	10	444	453	898
WB	97.61%	126	14	474	484	958

**Key parameters for service areas of category-C**

Service Area	% of pre-paid in total subscribers	ARPU (Rs. per month)	Total usage (from & outside HSA) per subscriber per month			
			Outgoing SMS	Outgoing MOU	Incoming MOU	Total MOU
Assam	97.02%	139	26	511	526	1037
Bihar	95.81%	118	12	599	634	1234
HP	97.44%	146	10	429	430	860
J&K	43.30%	167	26	593	561	1155
NE	97.28%	168	27	454	460	914
Odisha	96.39%	132	16	524	540	1064

**Key parameters for service areas of category-Metro**

Service Area	% of pre-paid in total subscribers	ARPU (Rs. per month)	Total usage (from & outside HSA) per subscriber per month			
			Outgoing SMS	Outgoing MOU	Incoming MOU	Total MOU
Kolkata	93.02%	106	11	408	391	799
Delhi	70.04%	121	12	462	421	883
Mumbai	78.63%	131	9	409	359	769

## Annexure 4.1: Performance of QoS Parameters for Cellular Mobile Service

LSA Name	TSP Name	Network Related Parameters											Customer Service Quality Parameters								
		Network Availability		Connection Establishment (Accessibility)			Connection Maintenance (Retainability)			POI	Metering and Billing						Response time to the		Termination / closure of		
		BS Accumulated down-time (not available for service) (%)	Worst affected BSs due to down-time (%)	Call Set-up Success Rate and Session Establishment Success Rate for Circuit Switched Voice or VoLTE as applicable	SDCCH / Paging Channel Congestion/ RRC Congestion (%)	TCH, RAB and E-RAB Congestion (%)	Network QoS DCR Spatial Distribution Measure [Network_QSD[90,90]]	Network QoS DCR Temporal Distribution Measure [Network_QTD[97,90]]	Connections with good voice quality, Circuit Switched Voice Quality and VoLTE quality	Point of Interconnection (POI) Congestion (on individual POI) - No. of POIs not meeting the benchmark	Down Link (DL) Packet Drop Rate or DL-PDR	Up Link (UL) Packet Drop Rate or UL-PDR	Metering and billing credibility - post paid	Metering and billing credibility - pre paid	Resolution of billing/charging complaints- within 4 weeks	Resolution of billing/charging complaints- within 6 weeks	Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution of complaints	Accessibility of call center/ customer care	Percentage of calls answered by the operators (voice to voice) within 90 seconds	Termination / Closure of service	Time taken for refund of deposits after closures
<=2%	<=2%	>=95%	<=1%	<=2%	<=2%	<=3%	>=95%	<=0.5	<=2%	<=2%	<=0.1%	<=0.1%	98% within 4 weeks	100% within 6 weeks	100% within 1 week of resolution of complaint	>=95%	>=95%	<= 7 days	100% within 60 days		
Andhra Pradesh	AIRTEL	0.29%	0.70%	99.33%	0.24%	0.32%	1.23%	1.43%	96.20%	0	0.16%	0.15%	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	94.89%	100.00%	100.00%
	BSNL	1.42%	1.90%	98.45%	0.78%	0.57%	1.68%	1.80%	98.64%	0	0.01%	0.21%	0.00%	0.00%	100.00%	100.00%	100.00%	97.42%	87.64%	100.00%	100.00%
	RJIL	0.08%	0.20%	99.69%	0.01%	0.00%	0.17%	0.26%	99.96%	0	0.00%	0.07%	0.00%	0.00%	100.00%	100.00%	100.00%	98.17%	98.73%	100.00%	100.00%
	VIL	0.10%	0.63%	99.24%	0.20%	0.24%	1.62%	2.22%	97.87%	0	0.16%	0.07%	0.00%	0.00%	99.81%	100.00%	100.00%	99.11%	99.99%	100.00%	100.00%
Assam	AIRTEL	0.31%	1.13%	98.64%	0.32%	0.68%	1.72%	2.17%	96.33%	0	0.16%	0.18%	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	90.31%	100.00%	100.00%
	BSNL	1.95%	0.61%	98.41%	0.85%	1.81%	1.84%	2.25%	98.47%	0	1.57%	1.78%	0.02%	0.00%	100.00%	100.00%	100.00%	97.04%	96.02%	100.00%	100.00%
	RJIL	0.25%	0.84%	99.64%	0.00%	0.00%	0.44%	0.54%	99.95%	0	0.00%	0.09%	0.00%	0.00%	100.00%	100.00%	100.00%	98.52%	98.52%	100.00%	100.00%
	VIL	0.34%	1.84%	99.38%	0.17%	0.60%	1.88%	2.59%	98.54%	0	0.09%	0.12%	0.00%	0.00%	100.00%	100.00%	100.00%	97.79%	99.86%	100.00%	100.00%
Bihar	AIRTEL	0.61%	0.06%	97.95%	0.62%	0.73%	1.59%	1.69%	98.14%	0	0.14%	0.35%	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	92.76%	100.00%	100.00%
	BSNL	1.92%	0.62%	95.90%	0.33%	0.32%	1.81%	2.31%	98.20%	0	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	RJIL	0.16%	0.63%	99.52%	0.01%	0.00%	0.33%	0.43%	99.96%	0	0.00%	0.09%	0.00%	0.00%	100.00%	100.00%	100.00%	98.51%	98.63%	100.00%	100.00%
	VIL	0.14%	1.21%	99.05%	0.09%	0.08%	1.55%	2.14%	99.28%	0	0.01%	0.02%	0.00%	0.00%	100.00%	100.00%	100.00%	96.50%	99.93%	100.00%	100.00%
Delhi	AIRTEL	0.21%	1.26%	99.36%	0.18%	0.24%	1.91%	2.36%	95.50%	0	0.43%	0.23%	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	92.91%	100.00%	100.00%
	MTNL	0.06%	0.44%	97.48%	0.08%	0.85%	1.21%	1.37%	98.16%	0	NA	NA	0.00%	0.00%	100.00%	100.00%	100.00%	99.67%	99.67%	100.00%	100.00%
	RJIL	0.09%	0.25%	99.52%	0.00%	0.00%	0.18%	0.30%	99.96%	0	0.00%	0.08%	0.00%	0.00%	100.00%	100.00%	100.00%	97.82%	98.60%	100.00%	100.00%
	VIL	0.11%	0.56%	99.82%	0.08%	0.18%	1.45%	2.05%	99.56%	0	0.17%	0.26%	0.01%	0.01%	100.00%	100.00%	100.00%	99.18%	99.99%	100.00%	100.00%
Gujarat	AIRTEL	0.28%	1.98%	99.31%	0.22%	0.29%	1.67%	2.30%	95.78%	0	0.08%	0.19%	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	90.42%	100.00%	100.00%
	BSNL	1.54%	0.47%	97.65%	0.23%	0.64%	1.25%	2.14%	98.45%	0	0.09%	0.20%	0.00%	0.00%	100.00%	100.00%	100.00%	99.90%	96.55%	100.00%	100.00%
	RJIL	0.18%	0.60%	99.68%	0.03%	0.00%	0.14%	0.25%	99.97%	0	0.00%	0.07%	0.00%	0.00%	100.00%	100.00%	100.00%	98.47%	97.53%	100.00%	100.00%
	VIL	0.09%	0.40%	99.56%	0.08%	0.35%	1.68%	2.17%	97.26%	0	0.16%	0.19%	0.01%	0.00%	100.00%	100.00%	100.00%	97.14%	100.00%	100.00%	100.00%
Haryana	AIRTEL	0.18%	1.31%	99.52%	0.10%	0.17%	1.16%	1.52%	95.34%	0	0.15%	0.25%	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	93.53%	100.00%	100.00%
	BSNL	0.76%	0.04%	98.83%	0.48%	0.95%	1.60%	1.79%	97.11%	0	0.16%	0.56%	0.00%	0.01%	100.00%	100.00%	100.00%	98.00%	99.93%	100.00%	100.00%
	RJIL	0.08%	0.27%	99.65%	0.00%	0.00%	0.21%	0.37%	99.97%	0	0.00%	0.06%	0.00%	0.00%	100.00%	100.00%	100.00%	98.57%	98.56%	100.00%	100.00%
	VIL	0.13%	0.49%	99.16%	0.43%	0.83%	1.89%	2.70%	98.32%	0	0.16%	0.11%	0.00%	0.01%	100.00%	100.00%	100.00%	99.18%	99.97%	100.00%	100.00%
Himachal Pradesh	AIRTEL	0.12%	0.67%	99.70%	0.14%	0.06%	1.16%	1.40%	96.00%	0	0.16%	0.14%	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	93.60%	100.00%	100.00%
	BSNL	1.90%	0.38%	98.59%	0.86%	1.24%	1.93%	2.04%	98.52%	0	0.00%	0.00%	0.01%	0.00%	100.00%	100.00%	100.00%	97.52%	95.74%	100.00%	100.00%
	RJIL	0.15%	0.41%	99.67%	0.00%	0.00%	0.19%	0.32%	99.97%	0	0.00%	0.06%	0.00%	0.00%	100.00%	100.00%	100.00%	98.63%	98.47%	100.00%	100.00%
	VIL	0.13%	0.51%	99.15%	0.05%	0.33%	1.67%	2.50%	96.05%	0	0.21%	0.25%	0.03%	0.00%	100.00%	100.00%	100.00%	99.89%	99.95%	100.00%	100.00%
Jammu & Kashmir	AIRTEL	0.23%	1.42%	99.26%	0.05%	0.04%	0.92%	1.37%	95.64%	0	0.18%	0.17%	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	94.47%	100.00%	100.00%
	BSNL	1.90%	0.64%	97.73%	0.87%	1.09%	1.97%	2.67%	95.76%	0	0.22%	0.12%	0.00%	0.05%	100.00%	100.00%	100.00%	98.00%	99.90%	100.00%	100.00%
	RJIL	0.10%	0.41%	99.66%	0.00%	0.00%	0.26%	0.38%	99.96%	0	0.00%	0.08%	0.00%	0.00%	100.00%	100.00%	100.00%	98.36%	99.27%	100.00%	100.00%
	VIL	0.26%	1.25%	99.53%	0.48%	0.19%	1.56%	2.50%	97.68%	0	0.18%	0.16%	0.00%	0.00%	100.00%	100.00%	100.00%	99.87%	99.98%	100.00%	100.00%
Karnataka	AIRTEL	0.06%	0.36%	99.68%	0.13%	0.19%	1.03%	1.39%	95.59%	0	0.18%	0.15%	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	94.97%	100.00%	100.00%
	BSNL	1.71%	0.57%	97.96%	0.43%	0.43%	1.54%	1.66%	97.59%	0	1.28%	1.03%	0.00%	0.00%	99.73%	100.00%	100.00%	95.08%	89.48%	100.00%	100.00%
	RJIL	0.06%	0.09%	99.66%	0.01%	0.00%	0.17%	0.31%	99.97%	0	0.00%	0.07%	0.00%	0.00%	100.00%	100.00%	100.00%	97.26%	98.99%	100.00%	100.00%
	VIL	0.11%	0.35%	99.70%	0.28%	0.30%	1.72%	2.13%	98.81%	0	0.13%	0.16%	0.01%	0.00%	100.00%	100.00%	100.00%	97.35%	99.98%	100.00%	100.00%
Kerala	AIRTEL	0.10%	0.25%	99.68%	0.16%	0.45%	1.64%	2.33%	96.91%	0	0.13%	0.45%	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	98.01%	100.00%	100.00%
	BSNL	0.33%	0.21%	98.93%	0.24%	0.53%	1.87%	2.33%	98.50%	0	0.06%	0.20%	0.00%	0.00%	100.00%	100.00%	100.00%	97.50%	90.01%	100.00%	100.00%
	RJIL	0.04%	0.07%	99.78%	0.01%	0.00%	0.11%	0.41%	99.97%	0	0.00%	0.07%	0.00%	0.00%	100.00%	100.00%	100.00%	97.64%	98.52%	100.00%	100.00%
VIL	0.05%	0.01%	99.74%	0.16%	0.25%	0.65%	1.03%	98.84%	0	0.07%	0.14%	0.02%	0.00%	100.00%	100.00%	100.00%	94.98%	99.82%	100.00%	100.00%	



## Annexure 4.1 (Contd.)

Kolkata	AIRTEL	0.11%	0.00%	99.86%	0.18%	0.20%	1.10%	2.00%	97.79%	0	0.13%	0.28%	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	85.15%	100.00%	100.00%
	BSNL	0.38%	0.61%	98.48%	0.11%	0.25%	1.39%	1.59%	96.91%	0	0.00%	0.00%	0.00%	0.01%	99.00%	100.00%	100.00%	97.21%	97.05%	100.00%	100.00%
	RJIL	0.01%	0.00%	99.68%	0.00%	0.00%	0.07%	0.19%	99.98%	0	0.00%	0.04%	0.00%	0.00%	100.00%	100.00%	100.00%	98.30%	99.05%	100.00%	100.00%
	VIL	0.15%	0.72%	99.90%	0.12%	0.10%	0.97%	1.41%	98.40%	0	0.08%	0.14%	0.02%	0.01%	100.00%	100.00%	100.00%	99.08%	99.95%	100.00%	100.00%
Madhya Pradesh	AIRTEL	0.24%	1.13%	99.03%	0.17%	0.28%	1.85%	2.33%	96.60%	0	0.10%	0.18%	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	95.10%	100.00%	100.00%
	BSNL	1.21%	0.35%	98.74%	0.47%	1.10%	1.82%	2.02%	98.71%	0	0.00%	0.00%	0.00%	0.03%	100.00%	100.00%	100.00%	98.75%	98.62%	100.00%	100.00%
	RJIL	0.26%	1.14%	99.62%	0.01%	0.00%	0.38%	0.51%	99.95%	0	0.00%	0.11%	0.00%	0.00%	100.00%	100.00%	100.00%	98.37%	98.29%	100.00%	100.00%
Maharashtra	VIL	0.25%	0.92%	98.92%	0.25%	0.60%	1.77%	2.27%	97.26%	0	0.21%	0.15%	0.02%	0.03%	100.00%	100.00%	100.00%	96.42%	99.96%	100.00%	100.00%
	AIRTEL	0.13%	0.04%	99.32%	0.25%	0.24%	1.55%	1.83%	97.21%	0	0.09%	0.16%	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	93.42%	100.00%	100.00%
	BSNL	1.69%	0.61%	97.71%	0.56%	0.81%	1.94%	2.56%	97.30%	0	0.06%	0.17%	0.01%	0.00%	98.22%	100.00%	100.00%	97.47%	95.33%	100.00%	100.00%
	RJIL	0.31%	1.43%	99.66%	0.03%	0.00%	0.26%	0.35%	99.95%	0	0.00%	0.10%	0.00%	0.00%	100.00%	100.00%	100.00%	97.84%	98.32%	100.00%	100.00%
Mumbai	VIL	0.16%	0.46%	97.98%	0.76%	1.05%	1.85%	2.94%	96.60%	0	0.32%	0.13%	0.02%	0.00%	99.93%	100.00%	100.00%	97.44%	99.99%	100.00%	100.00%
	AIRTEL	0.21%	1.10%	99.01%	0.19%	0.40%	1.64%	1.91%	96.08%	0	0.16%	0.20%	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	93.16%	100.00%	100.00%
	MTNL	0.50%	1.60%	98.10%	0.50%	0.20%	1.79%	2.96%	98.12%	0	NA	NA	0.07%	0.00%	100.00%	100.00%	100.00%	100.00%	99.90%	100.00%	100.00%
	RJIL	0.18%	0.69%	99.62%	0.08%	0.00%	0.12%	0.22%	99.96%	0	0.00%	0.08%	0.00%	0.00%	100.00%	100.00%	100.00%	97.90%	97.88%	100.00%	100.00%
North East	VIL	0.11%	0.12%	99.77%	0.05%	0.23%	1.59%	2.13%	98.86%	0	0.16%	0.23%	0.01%	0.01%	100.00%	100.00%	100.00%	98.67%	99.99%	100.00%	100.00%
	AIRTEL	0.48%	0.96%	98.72%	0.54%	1.03%	1.75%	2.00%	98.18%	0	0.21%	0.18%	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	86.57%	100.00%	100.00%
	BSNL	1.90%	0.43%	98.10%	0.76%	1.18%	1.80%	1.85%	97.80%	0	0.00%	0.00%	0.00%	0.05%	100.00%	100.00%	100.00%	96.00%	96.10%	100.00%	100.00%
	RJIL	1.20%	1.69%	99.54%	0.01%	0.00%	0.61%	0.85%	99.95%	0	0.00%	0.11%	0.00%	0.00%	100.00%	100.00%	100.00%	98.13%	99.23%	100.00%	100.00%
Odisha	VIL	0.59%	1.91%	99.29%	0.17%	0.70%	1.96%	1.98%	98.27%	0	0.16%	0.14%	0.01%	0.00%	100.00%	100.00%	100.00%	98.75%	99.96%	100.00%	100.00%
	AIRTEL	0.05%	0.05%	98.86%	0.20%	0.39%	1.65%	1.75%	97.04%	0	0.10%	0.24%	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	93.97%	100.00%	100.00%
	BSNL	1.24%	0.64%	96.37%	0.68%	1.61%	1.90%	1.91%	96.20%	0	0.00%	0.00%	0.05%	0.00%	100.00%	100.00%	100.00%	95.27%	98.34%	100.00%	100.00%
	RJIL	0.12%	0.38%	99.62%	0.02%	0.00%	0.28%	0.36%	99.95%	0	0.00%	0.10%	0.00%	0.00%	100.00%	100.00%	100.00%	98.53%	98.89%	100.00%	100.00%
Punjab	VIL	0.02%	0.11%	99.87%	0.06%	0.12%	1.72%	2.38%	98.76%	0	0.04%	0.11%	0.01%	0.01%	100.00%	100.00%	100.00%	99.20%	99.95%	100.00%	100.00%
	AIRTEL	0.06%	0.30%	99.48%	0.12%	0.24%	0.99%	1.16%	98.01%	0	0.10%	0.33%	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	92.62%	100.00%	100.00%
	BSNL	0.66%	0.47%	98.42%	0.37%	0.29%	1.86%	2.17%	97.03%	0	0.00%	0.01%	0.01%	0.00%	100.00%	100.00%	100.00%	99.00%	99.92%	100.00%	100.00%
	RJIL	0.05%	0.11%	99.63%	0.00%	0.00%	0.07%	0.21%	99.97%	0	0.00%	0.06%	0.00%	0.00%	100.00%	100.00%	100.00%	98.62%	98.36%	100.00%	100.00%
Rajasthan	VIL	0.03%	0.12%	99.96%	0.06%	0.04%	0.60%	1.23%	99.45%	0	0.12%	0.23%	0.01%	0.00%	100.00%	100.00%	100.00%	97.46%	99.97%	100.00%	100.00%
	AIRTEL	0.26%	1.00%	98.55%	0.24%	0.43%	1.69%	2.06%	97.78%	0	0.24%	0.17%	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	94.14%	100.00%	100.00%
	BSNL	1.18%	0.51%	98.89%	0.82%	1.11%	1.54%	2.22%	98.30%	0	0.00%	0.00%	0.01%	0.00%	100.00%	100.00%	100.00%	99.35%	96.37%	100.00%	100.00%
	RJIL	0.11%	0.31%	99.66%	0.01%	0.00%	0.32%	0.42%	99.96%	0	0.00%	0.08%	0.00%	0.00%	100.00%	100.00%	100.00%	98.44%	98.48%	100.00%	100.00%
Tamilnadu including Chennai	VIL	0.15%	0.44%	99.25%	0.28%	0.41%	1.87%	2.67%	98.29%	0	0.18%	0.22%	0.01%	0.01%	100.00%	100.00%	100.00%	98.69%	99.91%	100.00%	100.00%
	AIRTEL	0.12%	0.27%	99.81%	0.15%	0.16%	1.80%	2.70%	95.95%	0	0.26%	0.11%	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	95.67%	100.00%	100.00%
	BSNL	0.94%	0.57%	98.84%	0.46%	0.36%	1.82%	2.73%	98.09%	0	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	100.00%	97.55%	92.88%	100.00%	100.00%
	RJIL	0.07%	0.18%	99.71%	0.01%	0.00%	0.11%	0.23%	99.97%	0	0.00%	0.06%	0.00%	0.00%	100.00%	100.00%	100.00%	98.21%	99.04%	100.00%	100.00%
Uttar Pradesh (East)	VIL	0.19%	0.89%	99.34%	0.66%	0.63%	1.87%	2.38%	98.21%	0	0.09%	0.15%	0.02%	0.00%	100.00%	100.00%	100.00%	97.02%	99.99%	100.00%	100.00%
	AIRTEL	0.25%	1.21%	97.03%	0.63%	1.72%	1.26%	1.54%	98.07%	0	0.15%	0.29%	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	93.86%	100.00%	100.00%
	BSNL	1.69%	0.65%	99.27%	0.89%	0.17%	1.74%	2.33%	97.45%	0	0.08%	0.05%	0.03%	0.01%	100.00%	100.00%	100.00%	98.28%	99.99%	100.00%	100.00%
	RJIL	0.35%	1.72%	99.54%	0.00%	0.00%	0.21%	0.34%	99.97%	0	0.00%	0.07%	0.00%	0.00%	100.00%	100.00%	100.00%	98.66%	98.97%	100.00%	100.00%
Uttar Pradesh (West)	VIL	0.32%	0.55%	99.33%	0.33%	0.64%	1.89%	2.92%	97.64%	0	0.11%	0.22%	0.01%	0.00%	100.00%	100.00%	100.00%	99.26%	99.95%	100.00%	100.00%
	AIRTEL	0.28%	1.02%	99.71%	0.15%	0.15%	1.61%	1.97%	95.46%	0	0.11%	0.22%	0.05%	0.00%	100.00%	100.00%	100.00%	100.00%	93.59%	100.00%	100.00%
	BSNL	1.78%	0.62%	96.57%	0.83%	1.32%	1.82%	1.98%	96.43%	0	0.00%	0.00%	0.00%	0.00%	100.00%	100.00%	100.00%	98.37%	96.27%	100.00%	100.00%
	RJIL	0.19%	1.18%	99.58%	0.01%	0.00%	0.35%	0.49%	99.97%	0	0.00%	0.06%	0.00%	0.00%	100.00%	100.00%	100.00%	98.58%	98.85%	100.00%	100.00%
West Bengal	VIL	0.13%	0.37%	99.16%	0.63%	0.81%	1.89%	2.44%	97.11%	0	0.09%	0.17%	0.00%	0.00%	100.00%	100.00%	100.00%	99.01%	99.93%	100.00%	100.00%
	AIRTEL	0.33%	0.65%	98.57%	0.26%	0.89%	1.96%	2.28%	95.67%	0	0.32%	0.13%	0.05%	0.00%	100.00%	100.00%	100.00%	100.00%	80.98%	100.00%	100.00%
	BSNL	0.33%	0.65%	96.25%	0.83%	1.49%	1.92%	2.04%	97.55%	0	0.19%	1.89%	0.00%	0.01%	98.00%	100.00%	100.00%	96.00%	96.21%	100.00%	100.00%
	RJIL	0.08%	0.23%	99.69%	0.02%	0.00%	0.32%	0.46%	99.96%	0	0.00%	0.09%	0.00%	0.00%	100.00%	100.00%	100.00%	98.50%	98.65%	100.00%	100.00%
West Bengal	VIL	0.19%	1.12%	99.86%	0.08%	0.13%	1.98%	2.68%	97.88%	0	0.11%	0.17%	0.02%	0.00%	100.00%	100.00%	100.00%	99.40%	99.88%	100.00%	100.00%

## Annexure 4.2 : Performance of QoS Parameters for Basic (Wire-line) Service

LSA Name	TSP Name	Faults incidences (No. of faults/100 Subs/month)	Fault Repair				Mean Time to Repair (MTTR)	POI Point of Interconnection (POI) Congestion (No. of PoIs not meeting benchmark)	Metering and Billing					Response time to the customer for assistance		Termination / closure of service	
			% of faults repaired by next working day - Urban	% of faults repaired within 5 days - Urban	% of faults repaired by next working day - Rural and hilly areas	% offaults repaired within 7 days- Rural and hilly areas			Metering and Billing Credibility - Postpaid	Metering and Billing Credibility - Prepaid	Resolution of billing/ charging/ validity complaints within 4 weeks	Resolution of billing/ charging/ validity complaints within 6 weeks	Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution of	Accessibility of call center/ customer care	Percentage of calls answered by the operators (voice to voice) within ninety seconds	Termination / Closure of service	Time taken for Refund of deposits after closures- within 60 days
Andhra Pradesh	AIRTEL	0.59	95.34%	100.00%	100.00%	100.00%	1.97	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	95.41%	100.00%	100.00%
	BSNL	5	98.00%	100.00%	98.00%	100.00%	6	0	0.00%	0.00%	100.00%	100.00%	100.00%	87.14%	81.87%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	95.48%	99.62%	100.00%	100.00%
	TATA	5.51	92.79%	100.00%	100.00%	100.00%	7.66	0	0.00%	NA	100.00%	100.00%	100.00%	99.00%	99.35%	100.00%	100.00%
	VIL	0.07	100.00%	100.00%	NA	NA	0.5	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA
Assam	AIRTEL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.12%	100.00%	100.00%
	BSNL	3	89.00%	100.00%	90.00%	100.00%	3	0	0.00%	0.00%	100.00%	100.00%	100.00%	82.88%	82.32%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	95.00%	100.00%	100.00%	100.00%
	VIL	1.32	100.00%	100.00%	NA	NA	2.42	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Bihar	AIRTEL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	97.97%	100.00%	100.00%
	BSNL	5	95.00%	100.00%	93.00%	100.00%	4	0	0.01%	0.00%	98.00%	100.00%	100.00%	84.81%	81.48%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	95.31%	100.00%	100.00%	100.00%
	TATA	0.22	100.00%	100.00%	100.00%	100.00%	1.78	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	1.2	100.00%	100.00%	NA	NA	4.13	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Delhi	AIRTEL	0.65	97.85%	100.00%	100.00%	100.00%	1.7	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.11%	100.00%	100.00%
	MTNL	2.03	82.88%	96.26%	NA	NA	5.03	0	0.00%	NA	100.00%	100.00%	100.00%	99.71%	99.27%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	96.00%	99.81%	100.00%	100.00%
	TATA	3.82	100.00%	100.00%	100.00%	100.00%	2.18	0	0.00%	NA	100.00%	100.00%	100.00%	98.00%	98.80%	100.00%	100.00%
	VIL	0.25	100.00%	100.00%	NA	NA	1.47	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Gujarat	AIRTEL	0.63	87.73%	100.00%	100.00%	100.00%	1.31	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	98.70%	100.00%	100.00%
	BSNL	5	95.00%	100.00%	94.00%	100.00%	4	0	0.01%	0.00%	100.00%	100.00%	100.00%	99.74%	99.70%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	96.15%	100.00%	100.00%	100.00%
	TATA	1.8	85.38%	100.00%	100.00%	100.00%	8.82	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	99.72%	100.00%	100.00%
	VIL	0.16	100.00%	100.00%	NA	NA	1.56	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Haryana	AIRTEL	0.69	92.88%	100.00%	100.00%	100.00%	1.83	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.61%	100.00%	100.00%
	BSNL	5	90.00%	100.00%	87.00%	100.00%	5	0	0.07%	0.00%	100.00%	100.00%	100.00%	100.00%	99.26%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	100.00%	100.00%	100.00%	100.00%
	TATA	0.25	100.00%	100.00%	100.00%	100.00%	3.64	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	99.86%	100.00%	100.00%
	VIL	2.5	100.00%	100.00%	NA	NA	1.25	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA
Himachal Pradesh	AIRTEL	0.21	100.00%	100.00%	100.00%	100.00%	2.8	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.97%	100.00%	100.00%
	BSNL	6	89.00%	100.00%	96.00%	100.00%	7	0	0.03%	0.00%	99.34%	100.00%	100.00%	100.00%	98.99%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	100.00%	100.00%	100.00%	100.00%
	TATA	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0	100.00%	100.00%	NA	NA	0	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA

## Annexure 4.2 (Contd.)

Jammu & Kashmir	AIRTEL	0.15	88.40%	100.00%	100.00%	100.00%	3.52	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.23%	100.00%	100.00%
	BSNL	4	97.00%	100.00%	98.00%	100.00%	7	0	0.01%	0.00%	98.00%	100.00%	100.00%	100.00%	99.74%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	96.30%	100.00%	100.00%	100.00%
	VIL	0	100.00%	100.00%	NA	NA	0	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA
Karnataka	AIRTEL	0.71	91.93%	100.00%	100.00%	100.00%	2.66	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	95.63%	100.00%	100.00%
	BSNL	7	90.00%	100.00%	82.00%	100.00%	7	0	0.09%	0.00%	98.00%	100.00%	100.00%	<b>84.37%</b>	<b>80.07%</b>	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	95.89%	100.00%	100.00%	100.00%
	TATA	0.15	92.77%	100.00%	100.00%	100.00%	8.37	0	0.00%	NA	100.00%	100.00%	100.00%	99.00%	98.92%	100.00%	100.00%
Kerala	VIL	0.11	100.00%	100.00%	NA	NA	3.25	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	0.89	88.68%	100.00%	100.00%	100.00%	2.06	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	<b>92.77%</b>	100.00%	100.00%
	BSNL	5	92.00%	100.00%	92.00%	100.00%	7	0	0.02%	0.00%	100.00%	100.00%	100.00%	<b>86.11%</b>	<b>82.02%</b>	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	95.92%	98.59%	100.00%	100.00%
Kolkata	TATA	0.08	100.00%	100.00%	100.00%	100.00%	2.9	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.59	100.00%	100.00%	NA	NA	3.1	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	0.13	97.89%	100.00%	100.00%	100.00%	1.69	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.56%	100.00%	100.00%
	BSNL	7	92.00%	100.00%	NA	NA	8	0	0.00%	0.00%	98.00%	100.00%	100.00%	<b>85.24%</b>	<b>82.02%</b>	100.00%	100.00%
Madhya Pradesh	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	96.83%	100.00%	100.00%	100.00%
	TATA	2.66	98.68%	100.00%	100.00%	100.00%	2.23	0	0.00%	NA	100.00%	100.00%	100.00%	97.00%	100.00%	100.00%	100.00%
	VIL	0.32	100.00%	100.00%	NA	NA	1.41	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	0.22	85.08%	100.00%	100.00%	100.00%	1	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.42%	100.00%	100.00%
Maharashtra	BSNL	7	91.00%	100.00%	89.00%	100.00%	5	0	0.06%	0.00%	100.00%	100.00%	100.00%	99.68%	99.60%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	97.30%	100.00%	100.00%	100.00%
	TATA	0.76	100.00%	100.00%	100.00%	100.00%	1.51	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.12	100.00%	100.00%	NA	NA	0.58	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA
Mumbai	AIRTEL	0.25	89.22%	100.00%	100.00%	100.00%	0.68	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.97%	100.00%	100.00%
	BSNL	6	88.00%	100.00%	80.00%	100.00%	8	0	0.01%	0.00%	100.00%	100.00%	100.00%	99.48%	99.41%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	96.33%	100.00%	100.00%	100.00%
	TATA	2.24	91.73%	100.00%	100.00%	100.00%	7.11	0	0.00%	NA	100.00%	100.00%	100.00%	99.00%	99.41%	<b>99.89%</b>	100.00%
North East	VIL	0.38	100.00%	100.00%	NA	NA	3.6	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	0.26	91.76%	100.00%	100.00%	100.00%	1.37	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.54%	100.00%	100.00%
	MTNL	3.1	<b>52.90%</b>	<b>74.70%</b>	<b>58.80%</b>	<b>82.40%</b>	<b>47.26</b>	0	0.00%	NA	99.00%	100.00%	100.00%	99.96%	97.92%	<b>99.98%</b>	<b>52.38%</b>
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	96.41%	100.00%	100.00%	100.00%
Odisha	TATA	4.62	93.86%	100.00%	100.00%	100.00%	6.72	0	0.00%	NA	100.00%	100.00%	100.00%	99.00%	99.13%	100.00%	100.00%
	VIL	0.1	100.00%	100.00%	NA	NA	2.24	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	BSNL	5	96.00%	100.00%	99.00%	100.00%	7	0	0.01%	0.00%	100.00%	100.00%	100.00%	<b>85.02%</b>	<b>83.49%</b>	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	100.00%	100.00%	100.00%	100.00%
Punjab	AIRTEL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.35%	100.00%	100.00%
	BSNL	5	93.00%	100.00%	90.00%	100.00%	8	0	0.09%	0.00%	99.00%	100.00%	100.00%	<b>81.77%</b>	<b>79.01%</b>	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	97.14%	100.00%	100.00%	100.00%
	TATA	5.33	100.00%	100.00%	100.00%	100.00%	1.87	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Punjab	VIL	0.42	100.00%	100.00%	NA	NA	2.4	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA
	AIRTEL	0.49	87.49%	100.00%	100.00%	100.00%	2.73	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.27%	100.00%	100.00%
	BSNL	6	91.00%	100.00%	89.00%	100.00%	7	0	0.03%	0.00%	98.00%	100.00%	100.00%	100.00%	99.12%	100.00%	<b>99.60%</b>
	QTL	5.87	89.67%	100.00%	100.00%	100.00%	6.81	0	0.01%	0.00%	100.00%	100.00%	100.00%	97.37%	95.39%	100.00%	100.00%
Punjab	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	97.92%	100.00%	100.00%	100.00%
	TATA	0.13	100.00%	100.00%	100.00%	100.00%	3.73	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.25	100.00%	100.00%	NA	NA	1.21	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA

## Annexure 4.2 (Contd.)

Rajasthan	AIRTEL	0.41	85.22%	100.00%	100.00%	100.00%	1.93	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	96.76%	100.00%	100.00%
	BSNL	6	95.00%	100.00%	95.00%	100.00%	6	0	0.07%	0.00%	98.50%	100.00%	100.00%	99.22%	99.37%	100.00%	0.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	95.71%	100.00%	100.00%	100.00%
	TATA	3.94	100.00%	100.00%	100.00%	100.00%	2.7	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.3	100.00%	100.00%	NA	NA	3.57	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA
Tamilnadu including Chennai	AIRTEL	1.05	90.10%	100.00%	100.00%	100.00%	1.76	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	96.10%	100.00%	100.00%
	BSNL	5	95.00%	100.00%	92.00%	100.00%	6	0	0.00%	0.00%	100.00%	100.00%	100.00%	87.57%	82.48%	100.00%	54.86%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	95.05%	100.00%	100.00%	100.00%
	TATA	0.35	96.00%	100.00%	100.00%	100.00%	4.86	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.46	100.00%	100.00%	NA	NA	1.46	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Uttar Pradesh (East)	AIRTEL	0.18	95.26%	100.00%	100.00%	100.00%	8.39	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.31%	100.00%	100.00%
	BSNL	7	89.00%	100.00%	84.00%	100.00%	7	0	0.05%	0.00%	100.00%	100.00%	100.00%	100.00%	99.84%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	96.43%	100.00%	100.00%	100.00%
	TATA	3.75	100.00%	100.00%	100.00%	100.00%	1.12	0	0.00%	NA	100.00%	100.00%	100.00%	97.00%	98.81%	100.00%	100.00%
	VIL	0.26	100.00%	100.00%	NA	NA	1.39	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Uttar Pradesh (West)	AIRTEL	0.18	96.80%	100.00%	100.00%	100.00%	8.9	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	97.45%	100.00%	100.00%
	BSNL	6	93.00%	100.00%	93.00%	100.00%	6	0	0.06%	0.00%	99.00%	100.00%	100.00%	99.09%	99.43%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	96.36%	100.00%	100.00%	100.00%
	TATA	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	1.55	100.00%	100.00%	NA	NA	1.21	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
West Bengal	AIRTEL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	98.78%	100.00%	100.00%
	BSNL	6	86.00%	100.00%	78.00%	100.00%	6	0	0.00%	0.00%	98.00%	100.00%	100.00%	87.20%	83.31%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	95.59%	100.00%	100.00%	100.00%
	TATA	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	1.67	100.00%	100.00%	NA	NA	0.43	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA

### Annexure 4.3: Quality of Service Performance of Broadband (wireline) Service Providers

S.No.	Service Provider	LSA	Service Provisioning / Activation Time	Fault Repair/ Restoration Time			Billing Performance			Response Time to the Customer for assistance		Bandwidth utilisation/ throughput				Service availability /uptime (for all users) in %age	Packet loss (for wired broadband access) in %age	Network latency (for wired broadband access)		
				% of faults repaired by next working day (>90%)	% of faults repaired within 3 working day	%age of bills disputed	%age of complaints resolved within 4 weeks	%age of cases to whom refund of deposits is made within 60 days of closures	%age of calls answered by operator (Voice to voice) within 60 sec	%age of calls answered by operator (Voice to voice) within 90 sec	No. of Intra network links having Bandwidth utilisation >90% during peak hours (TCBH)	No. of Upstream links for International connectivity having bandwidth utilisation >90% during peak hours (TCBH)	% International bandwidth utilization during peak hours (TCBH) (Enclose MRTG) <90%	Broadband Connection Speed available (download) from ISP node to user	User reference point at POP/ISP Gateway node to (GSP/NIXI)			User reference point at ISP Gateway node to International nearest NAP port abroad (terrestrial)	User reference point at ISP Gateway node to International nearest NAP port abroad (satellite)	
																				100%
1	ADN BROADBAND PRIVATE LIMITED	Delhi	100.00	97.60	100.00	0.00	100.00	100.00	99.97	100.00	0.00	0.00	58.27	90.00	99.82	0.50	2.00	150.00	0.00	
2	Airfiber Networks Pvt. Ltd.	Karnataka	100.00	96.00	99.90	0.00	100.00	100.00	93.67	99.00	0.00	0.00	71.36	99.00	100.00	0.50	23.00	246.00	0.00	
		Tamilnadu	100.00	95.00	99.90	0.00	100.00	100.00	93.67	99.00	0.00	0.00	59.09	99.00	100.00	0.50	22.00	245.00	0.00	
3	Airlink Communications Pvt. Ltd	All India	100.00	91.50	99.26	0.00	100.00	100.00	96.04	100.00	0.00	0.00	83.61	98.82	99.86	0.41	80.00	275.00	0.00	
4	Ainet Cable and Datacom Pvt.Ltd.	Maharashtra	100.00	98.33	100.00	0.00	100.00	100.00	95.00	100.00	0.00	0.00	2.37	100.00	100.00	0.49	4.00	225.00	0.00	
		Mumbai	100.00	93.00	99.00	0.17	100.00	100.00	87.00	94.00	0.00	0.00	18.62	100.00	100.00	0.53	4.00	228.00	0.00	
5	Alliance Broadband Services Pvt. Ltd.	All India	100.00	91.15	100.00	0.00	100.00	100.00	83.33	100.00	0.00	0.00	59.28	96.83	99.32	0.00	2.00	4.00	102.00	
6	Angel Air Network Solutions Private Limited	Punjab	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	81.00	90.00	100.00	0.00	20.00	25.00	40.00	
		Rajasthan	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	81.00	90.00	100.00	0.00	20.00	25.00	40.00	
7	ANI NETWORK PVT LTD	Delhi	100.00	93.00	100.00	0.00	100.00	100.00	99.00	100.00	0.00	0.00	87.00	100.00	99.00	0.40	20.00	288.00	0.00	
8	Apple Broadband Services Pvt. Ltd.	Andhra Pradesh	100.00	91.47	100.00	0.00	100.00	100.00	83.67	100.00	0.00	0.00	87.00	82.00	98.89	0.00	3.00	22.00	0.00	
9	Asianet Satellite Communications Ltd.	All India	100.00	90.40	99.70	0.42	100.00	100.00	60.72	80.61	0.00	0.00	59.45	91.67	99.83	0.81	56.00	229.00	0.00	
10	Atria Convergence Technologies Ltd.	All India	100.00	94.90	99.50	0.82	100.00	100.00	71.73	<b>74.93</b>	0.00	0.00	41.00	95.92	99.95	0.00	18.00	114.00	0.00	
11	Bharat Sanchar Nigam Ltd.	All India	100.00	94.28	99.70	0.08	100.00	<b>96.58</b>	87.09	86.40	0.00	0.00	64.00	93.95	99.23	0.30	48.50	117.20	0.00	
12	Bharti Airtel Ltd.	All India	100.00	92.96	99.74	0.01	100.00	100.00	95.86	98.16	0.00	0.00	32.34	100.00	99.82	0.00	47.18	59.58	0.00	
13	Candor Infosolution Pvt. Ltd.	Delhi	100.00	99.00	100.00	0.10	100.00	100.00	100.00	100.00	0.00	0.00	89.00	90.00	100.00	0.00	90.00	250.00	350.00	
14	City Online Services Ltd	Andhra Pradesh	100.00	99.00	99.00	0.00	100.00	100.00	98.00	99.00	0.00	0.00	59.28	99.00	99.72	0.30	15.00	238.00	0.00	
		Karnataka	100.00	98.00	99.00	0.00	100.00	100.00	95.50	98.00	0.00	0.00	77.50	97.87	99.72	0.57	18.00	280.00	0.00	
15	CSC Wifi Choupal Services India Pvt. Ltd.	All India	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00		
16	D-Vois Communication Private Limited	All India	100.00	91.67	99.33	0.00	100.00	100.00	80.50	88.33	0.00	0.00	0.00	90.00	99.00	0.10	24.00	0.00	0.00	
17	DDC BROADBAND PRIVATE LIMITED	Delhi	100.00	97.00	100.00	0.00	100.00	100.00	94.70	94.70	0.00	0.00	88.16	98.00	100.00	0.30	11.00	244.00	0.00	
18	DEN Broadband Limited	All India	100.00	98.73	99.90	0.00	100.00	100.00	86.62	91.95	0.00	0.00	71.94	93.00	99.37	0.62	74.00	325.00	0.00	
19	Digital Network Associates Pvt. Ltd.	Maharashtra	100.00	90.83	99.20	0.00	100.00	100.00	65.60	83.29	0.00	0.00	80.00	83.00	99.77	0.20	4.00	255.00	600.00	
		Mumbai	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	80.00	86.00	100.00	0.20	4.00	255.00	600.00	
20	DL GTPL Broadband Pvt. Ltd.	Gujarat	100.00	93.66	99.30	0.00	100.00	100.00	87.67	93.67	0.00	0.00	84.00	90.00	99.37	0.00	15.00	300.00	0.00	
		Maharashtra	100.00	96.00	99.66	0.00	100.00	100.00	97.33	97.33	0.00	0.00	83.95	90.00	99.50	0.00	15.00	300.00	0.00	

### Annexure 4.3 (Contd.)

21	DNA Infotel Pvt Ltd	Maharashtra	100.00	90.79	99.19	0.00	100.00	100.00	64.76	83.69	0.00	0.00	80.00	83.00	99.77	0.90	4.00	255.00	600.00
22	Dwan Supports Pvt. Ltd.	All India	100.00	95.67	100.00	0.00	100.00	100.00	91.00	95.33	0.00	0.00	85.67	95.33	99.86	0.04	44.00	244.00	460.00
23	Ethernet Xpress(I) Pvt. Ltd.	Maharashtra	100.00	94.00	99.21	0.54	100.00	100.00	82.00	85.00	0.00	0.00	20.00	99.00	100.00	0.11	30.00	300.00	650.00
24	Excell Media Pvt. Ltd.	Andhra Pradesh	100.00	93.26	99.21	0.00	100.00	100.00	96.36	97.55	0.00	0.00	70.81	98.40	99.64	0.50	10.00	300.00	0.00
		Karnataka	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00
25	Excitel Broadband Private Limited	All India	100.00	91.06	99.60	0.00	100.00	100.00	62.50	82.00	0.00	0.00	78.50	100.00	99.28	0.00	4.00	199.00	0.00
26	Five Network Solution (India) Ltd.	All India	100.00	99.50	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	90.00	99.86	0.60	0.00	0.00	0.00
27	Fusionnet Web Services Pvt. Ltd.	All India	100.00	94.19	99.51	0.00	100.00	100.00	90.40	92.70	0.00	0.00	64.29	100.00	100.00	0.00	5.00	250.00	0.00
28	Genstar Network Solutions Pvt. Ltd.	Mumbai	100.00	98.00	100.00	0.00	100.00	100.00	83.00	87.00	0.00	0.00	81.00	99.00	99.04	0.00	1.00	48.00	80.00
29	GTPL Broadband Pvt. Ltd.	All India	100.00	94.84	99.02	0.00	100.00	100.00	93.52	96.73	0.00	0.00	55.23	94.00	99.07	0.00	11.00	300.00	0.00
30	GTPL KCBPL Broadband Private Limited	Kolkata	100.00	99.93	100.00	0.00	100.00	100.00	84.33	88.77	0.00	0.00	80.00	98.01	100.00	0.00	10.00	250.00	310.00
		West Bengal	100.00	99.93	100.00	0.00	100.00	100.00	84.57	89.07	0.00	0.00	80.00	98.01	100.00	0.00	10.00	250.00	310.00
31	Hathway Cable & Datacom Pvt. Ltd.	All India	100.00	91.49	99.45	1.07	100.00	100.00	91.03	91.24	0.00	0.00	78.79	90.00	99.86	0.13	75.60	262.00	0.00
32	Honesty Net Solutions (I) Pvt Ltd	All India	100.00	93.33	100.00	0.00	100.00	100.00	68.00	100.00	0.00	0.00	0.00	95.00	99.79	0.02	0.00	66.00	0.00
33	Indinet Service Pvt. Ltd	All India	100.00	91.67	100.00	0.00	100.00	100.00	71.33	82.33	0.00	0.00	83.29	95.00	99.55	0.50	55.00	252.00	
34	Instanet Technologies Pvt. Ltd.	Maharashtra	100.00	96.70	100.00	0.15	100.00	100.00	65.23	80.73	0.00	0.00	63.00	90.00	100.00	0.00	4.00	255.00	0.00
35	Intech Online Pvt. Ltd.	Maharashtra	100.00	91.31	99.31	1.32	100.00	100.00	95.84	95.84	0.00	0.00	25.72	86.33	99.86	0.07	15.00	89.33	455.00
		Mumbai	100.00	90.84	99.07	0.77	100.00	100.00	93.79	93.79	0.00	0.00	40.00	86.33	99.86	0.04	1.00	76.00	450.00
36	Intermedia Cable Communication Pvt Ltd	Maharashtra	100.00	98.67	99.80	0.00	100.00	100.00	96.00	99.00	0.00	0.00	80.00	90.00	99.86	0.00	67.00	300.00	0.00
37	Ishan Netsol Pvt Ltd	All India	100.00	91.32	100.00	0.00	100.00	100.00	66.82	84.02	0.00	0.00	68.19	91.00	98.77	0.00	100.00	225.00	0.00
38	Joister Infoserve Pvt. Ltd.	Maharashtra	100.00	94.00	100.00	0.00	100.00	100.00	82.00	87.00	0.00	0.00	88.00	99.00	100.00	0.98	1.00	225.00	265.00
		Mumbai	100.00	92.00	100.00	0.00	100.00	100.00	84.00	92.00	0.00	0.00	89.00	99.00	100.00	0.97	1.00	47.00	265.00
39	Juweriyah Networks Private Limited	Maharashtra	100.00	98.00	100.00	0.00	100.00	100.00	83.67	87.00	0.00	0.00	83.00	99.00	100.00	0.00	1.00	47.00	80.00
		Mumbai	100.00	98.00	100.00	0.00	100.00	100.00	83.67	87.00	0.00	0.00	78.00	99.00	100.00	0.00	1.00	47.00	80.00
40	K NET Solutions Private Limited	Tamilnadu	100.00	92.50	99.38	0.00	100.00	100.00	87.89	89.11	0.00	0.00	0.00	100.00	99.87	0.00	9.85	224.27	0.00
41	Kerala Vision Broad Band Ltd.	All India	100.00	91.67	99.00	0.00	100.00	100.00	62.17	81.10	0.00	0.00	35.67	99.00	99.66	0.00	16.00	266.00	0.00
42	Kernel Fibernet Online Network Pvt Ltd	Kerala	100.00	99.00	99.00	0.00	100.00	100.00	90.00	90.00	0.00	0.00	80.00	94.00	99.77	0.00	4.00	0.00	0.00
43	Kings Broadband Pvt. Ltd	All India	100.00	98.00	100.00	0.00	100.00	100.00	88.30	95.66	0.00	0.00	80.00	95.60	99.91	0.10	30.00	310.00	650.00
44	Limras Eronet Broadband Service Pvt Ltd	All India	100.00	99.00	100.00	0.02	100.00	100.00	90.00	100.00	0.00	0.00	0.00	98.50	99.37	0.01	25.00	248.00	0.00
45	Mahanagar Telephone Nigam Ltd.	All India	<b>96.05</b>	<b>72.09</b>	<b>79.05</b>	0.00	100.00	<b>75.67</b>	95.72	97.85	0.00	0.00	52.22	89.70	99.33	0.50	35.33	294.20	0.00

### Annexure 4.3 (Contd.)

46	Meghbela Cable & Broadband Services (P) Ltd	All India	100.00	95.00	100.00	1.49	100.00	100.00	95.00	100.00	0.00	0.00	74.00	95.00	100.00	0.00	60.00	150.00	0.00
47	Microscan Infocommtech Private Limited	Maharashtra	100.00	95.70	99.88	0.00	100.00	100.00	100.00	100.00	0.00	0.00	13.90	100.00	100.00	0.55	4.10	164.00	
		Mumbai	100.00	94.11	99.63	0.00	100.00	100.00	100.00	100.00	0.00	0.00	20.74	100.00	100.00	0.60	4.34	164.00	
48	Multicraft Digital Technologies Private Limited	All India	100.00	97.17	100.00	0.00	100.00	100.00	99.00	99.00	0.00	0.00	89.27	92.00	100.00	0.00	119.00	0.00	0.00
49	Netplus Broadband Services Pvt. Ltd	All India	100.00	100.00	100.00	1.13	100.00	100.00	89.31	95.99	0.00	0.00	73.18	96.12	100.00	0.10	46.67	195.00	0.00
50	Nuron Networks Private Limited	Karnataka	100.00	91.64	99.00	0.00	100.00	100.00	72.00	82.00	0.00	0.00	0.00	90.00	100.00	0.10	28.00	29.00	65.00
51	ONEOTTI ENTERTAINMENT LTD	All India	100.00	97.00	99.00	1.56	100.00	100.00	95.00	95.00	0.00	0.00	85.56	100.00	99.91	0.50	1.03	63.00	0.00
52	Orange Infocom Pvt. Ltd.	Maharashtra	100.00	100.00	100.00	0.00	100.00	100.00	95.00	100.00	0.00	0.00	50.80	100.00	100.00	0.49	4.00	225.00	0.00
53	Pacenet Meghbela Broadband Pvt. Ltd.	Kolkata	100.00	95.00	100.00	1.74	100.00	100.00	95.00	100.00	0.00	0.00	74.00	95.00	100.00	0.00	60.00	150.00	0.00
54	Paradise Telecom Pvt. Ltd.	Maharashtra	100.00	100.00	100.00	0.14	100.00	100.00	65.23	80.73	0.00	0.00	63.00	90.00	100.00	0.00	4.00	255.00	0.00
55	Pioneer Elabs Limited	Andhra Pradesh	100.00	92.30	100.00	0.53	100.00	100.00	74.30	91.30	0.00	0.00	0.00	90.00	98.41	0.90	89.00	295.00	680.00
		Karnataka	100.00	92.30	100.00	1.29	100.00	100.00	77.00	91.30	0.00	0.00	0.00	90.00	98.60	0.90	94.33	299.00	700.00
56	Quadrant Televentures Ltd.	All India	100.00	92.70	99.22	0.35	100.00	100.00	89.93	92.80	0.00	0.00	74.03	100.00	100.00	0.00	17.00	254.00	0.00
57	Quest Consultancy Pvt. Ltd.	Gujarat	100.00	95.00	100.00	0.07	100.00	100.00	89.00	99.00	0.00	0.00	82.40	99.00	98.66	0.30	11.00	255.00	630.00
58	Radinet Info Solutions Pvt Ltd	Madhya Pradesh	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	65.85	90.00	99.59	0.00	20.00	300.00	0.00
		Maharashtra	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	65.85	90.00	99.59	0.00	20.00	300.00	0.00
		Rajasthan	100.00	99.47	100.00	0.00	100.00	100.00	82.93	85.86	0.00	0.00	65.85	90.00	99.59	0.00	20.00	300.00	0.00
		Uttar Pradesh (West)	100.00	99.69	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	65.85	90.00	99.59	0.00	20.00	300.00	0.00
59	RailTel Corporation of India Ltd.	All India	100.00	98.00	100.00	0.00	100.00	100.00	90.33	100.00	0.00	0.00	44.28	100.00	99.86	0.87	90.00	326.00	0.00
60	Rainbow Communications India Private Limited	Tamilnadu	100.00	100.00	99.00	0.00	100.00	100.00	75.00	90.00	0.00	0.00	0.00	95.00	99.44	0.50	14.00	275.00	0.00
61	Rajesh Digital & Datacom Pvt. Ltd.	Mumbai	100.00	98.00	100.00	0.00	100.00	100.00	97.00	97.00	0.00	0.00	87.00	83.00	99.86	0.00	46.00	250.00	500.00
62	Readylink Internet Services Limited	Tamilnadu	100.00	99.00	100.00	0.45	100.00	100.00	86.00	90.00	0.00	0.00	73.00	83.00	100.00	0.00	23.00	85.00	0.00
63	Reliance Jio Infocomm Ltd	All India	100.00	94.10	99.39	0.00	100.00	100.00	90.71	94.65	0.00	0.00	49.37	100.00	99.99	0.00	18.08	70.77	
64	RI Networks Pvt Ltd	All India	100.00	91.63	99.13	0.00	100.00	100.00	92.93	95.02	0.00	0.00	79.14	100.00	100.00	0.50	50.00	300.00	300.00
65	Sancfil Technologies Internet Services Pvt. Ltd.	Maharashtra	100.00	96.67	100.00	0.00	100.00	100.00	95.90	99.90	0.00	0.00	65.00	95.00	99.14	0.95	5.00	0.00	
66	Shree Omkar Infocom Pvt. Ltd.	Maharashtra	100.00	98.00	100.00	0.00	100.00	100.00	90.00	95.00	0.00	0.00	65.00	98.00	100.00	0.50	2.00	125.00	590.00
67	Shyam Spectra Private Limited	All India	100.00	98.05	99.32	0.50	100.00	100.00	84.98	87.44	0.00	0.00	77.39	97.33	99.79	0.00	4.30	161.00	
68	Sikka Broadband(P) Ltd.	Uttar Pradesh (East)	100.00	91.00	99.26	0.00	100.00	100.00	88.00	98.70	0.00	0.00	80.00	86.60	100.00	0.10	10.00	290.00	400.00
69	SITI Broadband Services Pvt. Ltd.	All India	100.00	92.77	99.68	0.00	100.00	100.00	91.00	96.00	0.00	0.00	65.11	95.00	98.42	0.00	3.00	131.00	299.00
70	Spiderlink Networks Pvt. Ltd.	Rajasthan	100.00	92.76	99.70	0.00	100.00	100.00	71.08	86.45	0.00	0.00	78.00	98.00	99.95	0.00	30.00	225.00	0.00

### Annexure 4.3 (Contd.)

71	Sristi Sanchar Webnet Limited	Kolkata	100.00	93.53	100.00	0.00	100.00	100.00	85.33	100.00	0.00	0.00	77.63	91.96	99.55	0.00	50.00	208.00	199.00
72	Stampede Communications Pvt. Ltd.	Kerala	100.00	95.00	100.00	0.00	100.00	100.00	80.00	100.00	0.00	0.00	67.00	90.00	100.00	0.00	25.00	250.00	0.00
73	Tachyon Communications Private Limited	Uttar Pradesh (East)	100.00	98.00	100.00	1.91	100.00	100.00	88.00	94.00	0.00	0.00	58.00	99.00	100.00	0.00	35.00	70.00	
74	Tata Play Broadband Private Limited (formerly Tata Sky Broadband Pvt.Ltd.)	All India	100.00	92.58	99.46	0.00	100.00	100.00	88.51	90.82	0.00	0.00	49.03	100.00	99.98	0.00	1.00	0.00	0.00
75	Tata Teleservices Limited	Andhra Pradesh	100.00	93.64	<b>98.61</b>	0.01	100.00	100.00	98.50	98.99	0.00	0.00	50.24	94.00	99.86	0.00	50.67	58.00	0.00
		Bihar	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	50.24	92.21	99.99	0.00	55.77	61.00	0.00
		Delhi	100.00	97.56	99.02	0.00	100.00	100.00	98.61	98.61	0.00	0.00	50.24	88.26	99.94	0.00	56.79	61.00	0.00
		Gujarat	100.00	<b>83.04</b>	<b>93.75</b>	0.00	100.00	100.00	100.00	100.00	0.00	0.00	50.24	95.47	99.89	0.00	32.63	59.67	0.00
		Karnataka	100.00	94.25	99.12	0.09	100.00	100.00	98.51	98.92	0.00	0.00	50.24	96.00	99.36	0.00	95.67	58.00	0.00
		Kerala	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	50.24	98.00	99.73	0.00	42.00	59.00	0.00
		Kolkata	100.00	95.00	99.17	0.00	100.00	100.00	96.30	96.30	0.00	0.00	50.24	85.00	99.87	0.00	38.00	45.16	0.00
		Madhya Pradesh	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	50.24	100.00	100.00	0.00	0.00	0.00	0.00
		Punjab	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	50.24	95.87	100.00	0.00	55.33	55.00	0.00
Rajasthan	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	50.24	92.43	98.53	0.00	64.63	63.86	0.00		
Tamilnadu	100.00	98.67	99.24	0.04	100.00	100.00	100.00	100.00	0.00	0.00	50.24	95.67	99.27	0.00	43.83	51.67	0.00		
76	Tata Teleservices(Maharashtra) Ltd.	Maharashtra	100.00	92.90	99.05	0.03	100.00	100.00	99.02	99.30	0.00	0.00	68.00	93.78	99.75	0.00	32.33	32.33	0.00
		Mumbai	100.00	94.65	99.04	0.01	100.00	100.00	98.65	99.13	0.00	0.00	68.00	99.62	99.79	0.00	32.43	57.52	0.00
77	Tikona Infnnet Ltd.	All India	100.00	93.62	99.46	1.44	100.00	100.00	64.50	81.60	0.00	0.00	83.91	92.63	100.00	0.00	3.33	0.00	0.00
78	Vortex Netsol Pvt. Ltd.	Gujarat	100.00	100.00	100.00	0.00	100.00	100.00	95.00	85.00	0.00	0.00	83.00	100.00	100.00	0.50	70.00	210.00	0.00
		Maharashtra	100.00	100.00	100.00	0.00	100.00	100.00	95.00	85.00	0.00	0.00	83.00	100.00	100.00	0.50	70.00	210.00	0.00
		Mumbai	100.00	100.00	100.00	0.00	100.00	100.00	95.00	85.00	0.00	0.00	83.00	100.00	100.00	0.50	70.00	210.00	0.00
79	Wan and Lan Internet Pvt. Ltd.	Mumbai	100.00	100.00	100.00	0.00	100.00	100.00	90.00	90.00	0.00	0.00	88.00	90.00	100.00	0.00	20.00	40.00	80.00
80	WAVE FIBER PRIVATE LIMITED	Andhra Pradesh	100.00	98.00	100.00	0.00	100.00	100.00	80.00	100.00	0.00	0.00	83.00	100.00	98.89	0.00	20.00	250.00	350.00
81	Weebo Networks Pvt Ltd.	All India	100.00	97.27	99.00	0.00	100.00	100.00	98.00	100.00	0.00	0.00	88.00	85.00	99.00	0.44	100.00	300.00	600.00
82	Wish Net Pvt. Ltd.	Assam	100.00	100.00	100.00	0.00	100.00	100.00	99.20	98.50	0.00	0.00	49.07	100.00	100.00	0.30	23.00	0.00	0.00
		Bihar	100.00	99.28	100.00	0.00	100.00	100.00	99.19	98.53	0.00	0.00	49.07	100.00	100.00	0.30	23.00	0.00	0.00
		Kolkata	100.00	98.57	100.00	0.00	100.00	100.00	95.75	98.83	0.00	0.00	49.07	100.00	100.00	0.30	12.00	0.00	0.00
		Madhya Pradesh	100.00	100.00	100.00	0.00	100.00	100.00	97.33	96.50	0.00	0.00	49.07	100.00	100.00	0.30	23.00	0.00	0.00
		Odisha	100.00	100.00	100.00	0.00	100.00	100.00	99.16	98.53	0.00	0.00	49.07	100.00	100.00	0.30	23.00	0.00	0.00
West Bengal	100.00	98.59	100.00	0.00	100.00	100.00	97.76	98.20	0.00	0.00	49.07	100.00	100.00	0.30	19.00	0.00	0.00		
83	Yashash Cable Network Pvt Ltd	Karnataka	100.00	97.38	99.34	0.00	100.00	100.00	89.03	93.32	0.00	0.00	59.81	84.00	99.73	0.01	35.00	219.00	0.00
84	You Broadband India Ltd.	All India	100.00	94.43	99.66	0.00	100.00	100.00	91.91	95.06	0.00	0.00	76.26	86.96	98.82	0.00	9.00	270.00	0.00



**Annexure 5.1: List of pay channels, offered by broadcasters to subscribers as reported to TRAI (New Regulatory Framework) - as on 30<sup>th</sup> September, 2022**

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
1	AETN 18 Media Pvt Limited	1	The History Channel	SD
		2	Histry TV 18 HD	HD
2	Asianet Star Communications Private Limited	3	Vijay TV	SD
		4	Vijay Super	SD
		5	Vijay HD	HD
		6	Vijay Music	SD
		7	Asianet	SD
		8	Asianet Plus	SD
		9	Asianet Movies	SD
		10	Suvarna Plus	SD
		11	Star Suvarna HD	HD
		12	Asianet HD	HD
		13	Star Suvarna	SD
3	Bangla Entertainment Private Limited	14	AATH	SD
		15	SONY Marathi	SD
4	BBC Global News India Private Limited	16	BBC World News	SD
		17	Cbeebies	SD
5	Bennett, Coleman & Company Limited	18	Zoom	SD
		19	Romedy Now	SD
		20	MN +	HD
		21	Mirror Now	SD
		22	ET NOW	SD
		23	Times Now	SD
		24	Times Now Navbharat HD	HD
		25	Movies Now HD	HD
		26	MNX HD	HD
		27	ET Now Swedesh	SD
		28	MNX	SD
6		29	Times Now World	HD
		30	Travel XP HD	HD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
	Celebrities Management Pvt Limited	31	Travel XP Tamil	SD
		32	Foodxp	SD
7	CSL Info Media Private Limited	33	JAN TV PLUS	SD
8	Direct New Private Limited	34	News X	SD
9	Discovery Communications India	35	Animal Planet	SD
		36	Discovery Channel	SD
		37	DTAMIL	SD
		38	Discovery Kids Channel	SD
		39	Discovery Science	SD
		40	Discovery Turbo	SD
		41	Investigation Discovery	SD
		42	Discovery HD	HD
		43	Animal Planet HD World	HD
		44	TLC HD	HD
		45	Investigation Discovery HD	HD
		46	TLC	SD
		47	EUROSPORT HD	HD
48	EUROSPORT	SD		
10	Disney Broadcasting (India) Limited	49	Disney Junior	SD
		50	UTV Movies	SD
		51	Marvel HQ	SD
		52	Disney International HD	HD
		53	Hungama TV	SD
		54	The Disney Channel	SD
		55	UTV HD	HD
		56	UTV Bindass	SD
57	UTV Action	SD		
11	Eenadu Televisoin Private Limited	58	ETV	SD
		59	ETV Andhra Pradesh	SD
		60	ETV - Telangana	SD
		61	ETV Cinema	SD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		62	ETV Life	SD
		63	ETV Plus	SD
		64	ETV Abhiruchi	SD
		65	ETV HD	HD
		66	ETV Plus HD	HD
		67	ETV Cinema HD	HD
		68	ETV Balbharat Telugu	SD
		69	ETV Balbharat Hindi	SD
		70	ETV Balbharat kannada	SD
		71	ETV Balbharat Malayalam	SD
		72	ETV Balbharat Tamil	SD
		73	ETV Balbharat English	SD
		74	ETV Balbharat HD	HD
		75	ETV Balbharat SD	SD
12	IN 10 Media Private Limited	76	EPIC TV	SD
		77	Filamchi	SD
		78	Gubbare	SD
		79	Showbox	SD
		80	Ishara TV	SD
13	Information TV Private Limited	81	India News	SD
14	Fame Media Private Limited	82	4tv News	SD
15	Greycells18 Media Limited	83	Topper TV	SD
16	IBN Lokmat News Private Ltd	84	News 18 Lokmat	SD
17	Living Entertainment Enterprises Private Ltd	85	ZEE ZEST HD	HD
		86	LF HD	HD
18	Lifestyle and Media Broadcasting Limited	87	Good Times	SD
19	Lex Sportel Vision Private Limited	88	1SPORTS	SD
20	Mavis Satcom Limited	89	J Movies	SD
		90	Jaya Max	SD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		91	Jaya Plus	SD
		92	Jaya TV HD	HD
21	MSM World Wide Factual Media Private Limited	93	SONY BBC EARTH	SD
		94	SONY BBC EARTH HD	HD
22	Media World Wide Limited	95	Travel XP	SD
23	New Delhi Television Limited	96	NDTV 24*7	SD
		97	NDTV India	SD
		98	NDTV Profit	SD
24	NGC Network (India) Pvt Limited	99	Fox Life	SD
		100	National Geographic Channel (NGC)	SD
		101	Fox Life HD	HD
		102	Nat Geo Wild	SD
		103	National Geographic HD	HD
		104	Nat Geo Wild HD	HD
		105	Baby TV HD	HD
25	Odisha Television Limited	106	Prarthana	SD
		107	Tarang	SD
		108	Tarang Music	SD
		109	Tarang HD	HD
		110	Alankar	SD
26	Parshavnath Media Private Limited	111	Dangal Kannada	SD
27	Raj Television Network Limited	112	Raj Digital Plus	SD
		113	Raj Musix	SD
		114	Raj News	SD
		115	Raj TV	SD
28	Silverstar Communications Limited	116	Mega 24	SD
		117	Mega Musiq	SD
		118	Mega TV	SD
29	Sony Pictures Networks India Private Limited	119	Sony YAY!	SD
		120	SET MAX	SD
		121	SAB	SD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		122	SONY ENTERTAINMENT CHANNEL (SET)	SD
		123	PIX	SD
		124	SIX	SD
		125	MAX 2	SD
		126	PAL	SD
		127	SET HD	HD
		128	SIX HD	HD
		129	PIX HD	HD
		130	MAX HD	HD
		131	Ten 2 HD	HD
		132	Ten 3 HD	HD
		133	Ten 2	SD
		134	Ten 1	SD
		135	Ten 3	SD
		136	Ten 1 HD	HD
		137	SONY Wah	SD
		138	SAB HD	HD
		139	Ten 4	SD
		140	Ten 4 HD	HD
30	Star India Private Limited	141	Star Sports 3	SD
		142	Star Sports 1 Tamil	SD
		143	Star Sports Select 2	SD
		144	Star Bharat	SD
		145	Star Gold 2 (Movies OK)	SD
		146	Star Sports 1 Hindi	SD
		147	Star Gold	SD
		148	Star Jalsha	SD
		149	Star Movies	SD
		150	Star Gold Select	SD
		151	Star Plus	SD
		152	Star Pravah	SD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		153	Star Sports 1	SD
		154	Star Sports 2	SD
		155	Star World	SD
		156	Jalsha Movies	SD
		157	Star Sports HD 2	HD
		158	Star Sports HD 1	HD
		159	Star Bharat HD	HD
		160	Star Gold HD	HD
		161	Star Movies HD	HD
		162	Star Plus HD	HD
		163	Star Sports 1 HD Hindi	HD
		164	Star Sports Select 1	SD
		165	Star Movies Select HD	HD
		166	Star World HD	HD
		167	Star Sports First	SD
		168	MAA Gold	SD
		169	MAA Movies	SD
		170	MAA Music	SD
		171	MAA TV	SD
		172	Star Pravah HD	HD
		173	Star Jalsha HD	HD
		174	Jalsha Movies HD	HD
		175	Star Sports Select HD 1	HD
		176	Star Sports Select HD 2	HD
		177	MAA HD	HD
		178	Star Gold Select HD	HD
		179	MAA Movies HD	HD
		180	Star World Prmiere HD	HD
		181	Star Sport 1 Telugu	SD
		182	Star Sport 1 Kannada	SD
		183	Star Sports 1 Bangla	SD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		184	Star Utsav	SD
		185	Star Sports 1 Marathi	SD
		186	Star Utsav Movies	SD
31	SUN TV Network Limited	187	Adithya TV	SD
		188	Chintu TV	SD
		189	Chutti TV	SD
		190	Gemini Comedy	SD
		191	Gemini Life	SD
		192	Gemini Movies	SD
		193	Gemini Music	SD
		194	Gemini TV	SD
		195	KTV	SD
		196	Surya Movies	SD
		197	Kushi TV	SD
		198	SUN Life	SD
		199	Sun Music	SD
		200	Sun News	SD
		201	Surya Music	SD
		202	SUN TV	SD
		203	Surya Comedy	SD
		204	Surya TV	SD
		205	Udaya Comedy	SD
		206	Udaya Movies	SD
		207	Udaya Music	SD
		208	Udaya TV	SD
		209	Kochu TV	SD
		210	Sun TV HD	HD
		211	KTV HD	HD
		212	Sun Music HD	HD
		213	Gemini TV HD	HD
		214	Gemini Music HD	HD
		215	Gemini Movies HD	HD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		216	Surya TV HD	HD
		217	Udaya TV HD	HD
32	Suryansh Broadcasting Private Limited	218	Flowers	SD
33	Turner International India Pvt Ltd	219	Cartoon Network	SD
		220	CNN International	SD
		221	POGO	SD
		222	Cartoon Network HD+	HD
34	TV 18 Broadcast Limited	223	CNN News 18	SD
		224	CNBC Bajaar	SD
		225	CNBC TV 18 Prime HD	HD
		226	CNBC Awaaz	SD
		227	News 18 Tamil Nadu	SD
		228	News 18 Kerala	SD
		229	News 18 Assam / North East	SD
		230	News 18 India	SD
		231	CNBC TV 18	SD
		232	News 18 Bihar Jharkhand	SD
		233	News 18 Madhya Pradesh / Chattisgarh	SD
		234	News 18 Rajasthan	SD
		235	News 18 Uttar Pradesh/ Uttaranchal	SD
		236	News 18 Jammu/Kashmir/Ladakh/Himachal	SD
		237	News 18 Kannada	SD
		238	News 18 Bangla	SD
		239	News 18 Punjab / Haryana	SD
		240	News 18 Gujarati	SD
241	News 18 Odia	SD		
35	TV Today Network Limited	242	Aaj Tak	SD
		243	India Today	SD
		244	AAJ Tak HD	HD
		245	Good News Today	SD



<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
36	Viacom 18 Media Private Limited	246	Colors	SD
		247	Comedy Central (HD )	HD
		248	MTV	SD
		249	NICK	SD
		250	NICK JR	SD
		251	SONIC	SD
		252	VH 1 (HD Distribution)	HD
		253	Colors Infinity HD	HD
		254	Colors Infinity	SD
		255	Colors HD	HD
		256	NICKS HD+	HD
		257	Colors Cineplex	SD
		258	MTV Beats	SD
		259	Colors Kannada HD	HD
		260	Colors Marathi HD	HD
		261	Colors Bangla HD	HD
		262	Colors Super	SD
		263	Colors Cineplex Bollywood	SD
		264	Sports 18	SD
		265	Sports 18 HD	HD
		266	Colors Bangla	SD
		267	Colors Gujarati	SD
		268	Colors Kannada	SD
		269	Colors Marathi	SD
		270	Colors Oriya	SD
		271	MTV Beats HD	HD
		272	Colors Tamil	SD
273	Colors Cineplex HD	HD		
274	VH 1	SD		
275	Colors Tamil HD	HD		
276	MTV HD+	HD		
277	Colors Rishtey	SD		

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		278	Colors Kannada Cinema	SD
		279	Colors Gujarati Cinema	SD
		280	Comedy Central	SD
		281	Colors Bangla Cinema	SD
37	Zee Akaash News Private Limited	282	Zee 24 Ghanta	SD
38	Zee Entertainment Enterprises Limited	283	Zee Bollywood	SD
		284	Zee Action	SD
		285	Zee Bangla Cinema	SD
		286	Zee Café HD	HD
		287	Zee Café	SD
		288	Zee Cinema	SD
		289	Zee Talkies	SD
		290	Zee TV	SD
		291	Zing	SD
		292	& Picture	SD
		293	Zee Bangla	SD
		294	Zee Marathi	SD
		295	Zee Zest	SD
		296	Zee TV HD	HD
		297	Zee Cinema HD	HD
		298	& TV	SD
		299	& TV HD	HD
		300	Zee Kannada	SD
		301	Zee Telugu	SD
		302	& Pictures HD	HD
303	Zee Cinemalu	SD		
304	Zee Yuva	SD		
305	Zee Marathi HD	HD		
306	& Prive HD	HD		
307	Zee Bangla HD	HD		
308	Zee Tamil HD	HD		

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		309	Zee Cinemalu HD	HD
		310	Zee Telugu HD	HD
		311	Zee Tamil	SD
		312	Zee Kannada HD	HD
		313	Zee Anmol Cinema	SD
		314	& Flix HD	HD
		315	& Flix	SD
		316	Zee Keralam HD	HD
		317	Zee Keralam	SD
		318	Zee Anmol	SD
		319	Big Magic	SD
		320	Zee Ganga	SD
		321	Zee Classic	SD
		322	&Xplore HD	HD
		323	ZEE Sarthak	SD
		324	Zee Talkies HD	HD
		325	Zee Punjabi	SD
		326	Zee Thirai	SD
		327	Zee Picchar	SD
		328	Zee Thirai HD	HD
		329	Zee Picchar HD	HD
		330	Zee BiskoPe	SD
39	Zee Media Corporation Limited	331	Zee 24 Taas	SD
		332	Zee Odisha	SD
		333	Zee Business	SD
		334	Zee Punjab Haryana Himachal	SD
		335	Zee Madhya Pradesh Chattisgarh	SD
		336	Zee Salaam	SD
		337	Zee 24 Kalak	SD
		338	WION	SD
		339	Zee Uttar Pradesh Uttrakhand	SD
		340	Zee Hindustan	SD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>Sl. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		341	Zee Bihar Jharkhand	SD
		342	Zee News	SD
		343	Zee Rajasthan News	SD
40	Zoom Entertainment Network Limited	344	Movies Now	SD
41	Sidharth Broadcasting Private Limited	345	Sidharth TV	SD
		346	Jay Jagannath	SD
42	Sarthak Music Private Limited	347	Sidharth Bhakti	SD
		348	Sidharth Gold	SD
43	Kalaighnar TV Pvt Limited	349	Kalaighnar TV	SD
		350	Kalaighnar Isai Aruvi	SD
		351	Kalaighnar Siripolli	SD
		352	Kalaighnar Murasu	SD
		353	Kalaighnar Seithigal	SD

**List of Major MSOs / HITS Operators**

- 1. M/s. Siti Networks Limited.,**  
1<sup>st</sup> Floor, FC-09, Gate No.03,  
Sector-16-A Film City,  
Noida-201301,  
Tel: 0120-4526700  
Website : [www.sitinetworkslimited](http://www.sitinetworkslimited)  
Toll Free No. 1800 1234 001
- 2. M/s Den Networks Limited.**  
236, Ground Floor, Okhla Industrial Estate,  
Phase-III, New Delhi-110020  
Website: [www.den networks.com](http://www.dennetworks.com)  
Toll Free No. 1800 419 2020
- 3. M/s Hathway Digital Private Limited.**  
805/606, 8<sup>th</sup> Floor, Windsor  
Off CST Road, Kalina, Santacruz (East),  
Mumbai-400098 (Maharashtra)  
PH: 022-26001306,  
Fax No: 022-26001307  
Website : [www.hathway.com](http://www.hathway.com)  
Toll Free No. 1800 4197 900
- 4. M/s GTPL Hathway.**  
202, 2<sup>nd</sup> Floor,  
Sahajanad Shopping Center  
Opp. Swaminarayan Mandir  
Shahibaug, Ahemdabad-38004  
Ph: 079-30280340 / 41, 079-25626476 / 77  
Website : [www.gtpl.net](http://www.gtpl.net)  
Toll Free No. 1800-419-0419
- 5. M/s NXT Digital Limited.**  
IN Centre, 49/50 MIDC  
12<sup>th</sup> Road, Andheri  
MUMBAI-400093 (Maharashtra)  
Ph: 022-28208585  
Website : [www.nxtdigital.co.in](http://www.nxtdigital.co.in)  
Toll Free No. 18602120400 18002100400

- 6. M/s NXT Digital Limited (HITS)**  
IN Centre, 49/50 MIDC  
12<sup>th</sup> Road, Andheri  
MUMBAI-400093 (Maharashtra)  
Ph: 022-28208585  
Website : [www.nxtdigital.co.in](http://www.nxtdigital.co.in)  
Toll Free No. 18602120400 18002100400
- 7. M/s Fastway Transmission Pvt. Ltd..**  
SCO-16-17, Top Floor  
Sector-34-A, Chandigarh  
Ph: 0161-4044444  
Website : [www.fastway.in](http://www.fastway.in)  
Toll Free No. 18001026602
- 8. M/s Tamil Nadu ARASU Cable TV Corporation Ltd.**  
11/22, Mangadusamy Street, Nungambakkam,  
Chennai-600034  
Ph: 044-2843 2911  
Fax : 044-2843 2913  
Website : [www.tactv.in](http://www.tactv.in)  
Toll Free No. 1800 425 2911
- 9. M/s Kerala Communicators Cable Ltd.**  
CC -22/491, Girnar, Kadavanthara,  
Cochin-682020 (Kerala)  
Ph: 0484-2316441  
Website : [www.kccl.tv](http://www.kccl.tv)  
Toll Free No. 18004195755
- 10. M/s Thamizhaga Cable TV Communication Pvt. Ltd.**  
Old No. 150, New No. 48, Sami Naicken Street,  
Chinthadripet, Chennai-6000002 (T.N.)  
Ph: 044-49272222  
Website : [www.tccl.co.in](http://www.tccl.co.in)  
Toll Free No. 1800-102-9845
- 11. M/s Asianet Digital Network Pvt. Network**  
2A, 2<sup>nd</sup> Floor, Leela Infopark  
Technopark, Kazahakuttom,  
Thiruvananthapuram-695581 (Kerala)  
Ph: 0471-2700995  
Fax : 0471-2527878  
Website : [www.asianetdigital.co.in](http://www.asianetdigital.co.in)  
Toll Free No. 1800 425 4725

- 12. M/s Kal Cable Private Ltd.**  
No. 229, Kutchery Road, Mylapore,  
Chennai-600004 (T.N.)  
Ph: 044-49616161  
Fax : 044-49616171  
Website : [www.scv.in](http://www.scv.in)  
Toll Free No. 1800-102-0728
- 13. M/s V.K. Digital Network Pvt. Ltd.**  
3-A-29, Willow Crest,  
6<sup>th</sup> Main Road, R.A. Puram,  
Chennai-600029 (T.N.)  
Ph: 044-4242 8282  
Website : [www.vkdigital.co.in](http://www.vkdigital.co.in)  
Toll Free No. 18004199908
- 12. M/s Kal Cable Private Ltd.**  
No. 229, Kutchery Road, Mylapore,  
Chennai-600004 (T.N.)  
Ph: 044-49616161  
Fax : 044-49616171  
Website : [www.scv.in](http://www.scv.in)  
Toll Free No. 1800-102-0728
- 13. M/s V.K. Digital Network Pvt. Ltd.**  
3-A-29, Willow Crest,  
6<sup>th</sup> Main Road, R.A. Puram,  
Chennai-600029 (T.N.)  
Ph: 044-4242 8282  
Website : [www.vkdigital.co.in](http://www.vkdigital.co.in)  
Toll Free No. 18004199908

**List of Pay DTH Operators**

- 1. M/s. Tata Play Limited**  
Tata Communications Complex,  
Mandi Road, PO Chattarpur,  
New Delhi – 110 074  
Tel: 011-6616 3000  
Fax-022-6616 3030  
Website : [www.tatasky.com](http://www.tatasky.com)  
Toll Free No. 18002086633
- 2. M/s Dish TV India Ltd.**  
FC-19, Sector-16A, Film City,  
Noida-201301  
Tel: 91-120-2467005 / 2467000  
Fax: 91-120-4357082  
Toll Free No. 18002583474 (Dish), 1800212212 (d2h)  
Website : [www.dishtv.in](http://www.dishtv.in)
- 3. SUN Direct TV(P) Ltd.**  
Murasoli Maran Towers, 73, MRC Nagar,  
Main Road, MRC Nagar, Chennai – 28  
PH: 044-44676767, Fax No 044-40679191  
Website : [www.sundirect.in](http://www.sundirect.in)  
Toll Free No. 18001037575
- 4. Bharti Telemedia Ltd.**  
Airtel Centre, Plot No 16,  
Udyog Vihar Phase IV,  
Gurgaon – 122 015  
Ph: 0124-4222222  
Fax : 0124-4248063  
Website : [www.airtel.in](http://www.airtel.in)  
Toll Free No. 18001036065



### List of Pay IPTV Operators

S.No.	Name of the IPTV Operator
1	Hyderabad Cable Digital Service Pvt. Ltd.
2	Bhoomika Digital Cable Services Pvt. Ltd.
3	Peak Air Pvt. Ltd.
4	Katalysts Productions Pvt. Ltd.
5	Andhra Pradesh State Fibernet Limited
6	Triple Play Teleservices (P) Ltd.
7	WI Bro Solutions Pvt. Ltd
8	Extreme Teleconnect Pvt. Ltd.
9	Delinet Broadband Pvt. Ltd
10	Den Networks Ltd.
11	Hathway Digital Limited
12	City Online Media Pvt. Ltd.
13	ACT Digital Home Entertainment Pvt. Ltd.
14	Kable First India Pvt. Ltd.
15	ACN Cable Pvt. Ltd.
16	UCN Network
17	Atria Convergence Technologies Ltd.
18	Skypro Communications
19	E2 Info Solutions
20	Assistive Netspeed Technologies Pvt. Ltd.
21	Bangalore Broadband Network (P) Ltd
22	M/s Creative Cable Network
23	M/s Wired Entertainment

**Annexure 5.5: List of 113 existing cities with operational FM Radio Channels in India, as on 30<sup>th</sup> September, 2022**

<b>S.No.</b>	<b>City</b>	<b>Category</b>	<b>Channels</b>
1	Agartala	D	2
2	Agra	B	4
3	Ahmedabad	A	6
4	Ahmednagar	C	4
5	Aizwal	D	3
6	Ajmer	C	4
7	Akola	C	4
8	Alappuzha	C	2
9	Aligarh	C	4
10	Allahabad	B	4
11	Amravati	C	1
12	Amritsar	B	4
13	Asansol	B	3
14	Aurangabad	C	4
15	Bareilly	C	4
16	Bengaluru	A	8
17	Bhadarwah	Others	1
18	Bharuch	D	2
19	Bhavangar	C	2
20	Bhopal	B	4
21	Bhubaneshwar	C	4
22	Bikaner	C	4
23	Bilaspur	C	3
24	Chandigarh	C	4
25	Chennai	A+	7
26	Coimbatore	B	4
27	Dehradun	C	1
28	Delhi	A+	9
29	Dhule	C	3
30	Dhubri	Others	1
31	Durg-Bhillaina	D	1

<b>S.No.</b>	<b>City</b>	<b>Category</b>	<b>Channels</b>
32	Erode	C	2
33	Gangtok	D	2
34	Godhara	D	1
35	Gorakhpur	C	4
36	Gulbarga	C	1
37	Guwahati	C	4
38	Gwalior	C	4
39	Haflong	Others	1
40	Hissar	D	4
41	Hubli - Dharwad	C	2
42	Hyderabad	A	8
43	Indore	B	4
44	Itanagar	D	2
45	Jabalpur	B	4
46	Jaipur	A	6
47	Jalandhar	C	4
48	Jalgaon	C	4
49	Jammu	C	4
50	Jamnagar	C	2
51	Jamshedpur	B	4
52	Jhansi	C	4
53	Jodhpur	C	4
54	Junagarh	D	2
55	Kannur	C	3
56	Kanpur	A	6
57	Karnal	D	3
58	Kargil	Others	2
59	Kathua	Others	2
60	Kochi	B	4
61	Kolhapur	C	4
62	Kolkata	A+	7
63	Kota	C	4

<b>S.No.</b>	<b>City</b>	<b>Category</b>	<b>Channels</b>
64	Kozhikode	C	4
65	Lucknow	A	6
66	Leh	Others	3
67	Madurai	B	4
68	Mangalore	C	3
69	Mehsana	D	2
70	Mumbai	A+	9
71	Muzaffarpur	C	4
72	Mysore	C	3
73	Nagpur	A	6
74	Nanded	C	3
75	Nasik	C	4
76	Nellore	C	1
77	Palampur	D	1
78	Panaji	D	2
79	Patiala	C	4
80	Patna	C	4
81	Porbandar	D	1
82	Punch	Others	2
83	Puducherry	C	4
84	Pune	A	6
85	Raigarh	D	1
86	Raipur	C	3
87	Rajahmundry	C	3
88	Rajkot	B	4
89	Ranchi	C	4
90	Rourkela	C	2
91	Salem	C	2
92	Sangli	C	4
93	Shillong	D	3
94	Shimla	D	3
95	Sholapur	C	4
96	Siliguri	C	3

<b>S.No.</b>	<b>City</b>	<b>Category</b>	<b>Channels</b>
97	Srinagar	C	4
98	Surat	A	6
99	Thiruvananthapuram	C	4
100	Thoothukudi	C	2
101	Thrissur	C	3
102	Tiruchirappalli	C	3
103	Tirunelveli	C	3
104	Tirupati	C	3
105	Udaipur	C	4
106	Ujjain	C	1
107	Vadodra	B	4
108	Varanasi	B	4
109	Vellore	C	2
110	Veraval	D	1
111	Vijayawada	B	3
112	Vishakapatnam	B	3
113	Warrangal	B	3
	<b>Total</b>		<b>388</b>

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