



## **Telecom Regulatory Authority of India**

### **Yearly Performance Indicators Indian Telecom Sector (Sixth Edition) 2021**

New Delhi, India

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# Snapshot

<b>(Data As on 31<sup>st</sup> December, 2021)</b>	
<b>Telecom Subscribers (Wireless+Wireline)</b>	
Total Subscribers	1,178.41 Million
% change over the previous year	0.39%
Urban Subscribers	655.20 Million
Rural Subscribers	523.21 Million
Market share of Private Operators	89.14%
Market share of PSU Operators	10.86%
Tele-density	85.91%
Urban Tele-density	137.26%
Rural Tele-density	58.50%
<b>Wireless Subscribers</b>	
Total Wireless Subscribers	1,154.62 Million
% change over the previous year	0.07%
Urban Subscribers	633.34 Million
Rural Subscribers	521.28 Million
Market share of Private Sector Operators	89.81%
Market share of Public Sector Operators	10.19%
Tele-density	84.17%
Urban Tele-density	132.68%
Rural Tele-density	58.28%
No. of total Public Mobile Radio Trunk Services (PMRTS)	63,417
No. of Very Small Aperture Terminals (VSAT)	2,88,848
<b>Wireline Subscribers</b>	
Total Wireline Subscribers	23.79 Million
% change over the previous year	18.63%
Urban Subscribers	21.86 Million
Rural Subscribers	1.93 Million
Market share of Private Operators	56.50%
Market share of PSU Operators	43.50%
Tele-density	1.73%
Urban Tele-density	4.58%
Rural Tele-density	0.22%
No. of Village Public Telephones (VPT)	68,606
No. of Public Call Office (PCO)	73,634

<b>Internet/Broadband Subscribers</b>	
Total Internet Subscribers	829.30 Million
% change over previous year	4.29%
Narrowband subscribers	37.21 Million
Broadband subscribers	792.08 Million
Wired Internet Subscribers	26.58 Million
Wireless Internet Subscribers	802.72 Million
Urban Internet Subscribers	496.20 Million
Rural Internet Subscribers	333.10 Million
Total Internet Subscribers per 100 population	60.46
Urban Internet Subscribers per 100 population	103.95
Rural Internet Subscribers per 100 population	37.25
<b>Telecom Financial Data for the Calendar Year-2021</b>	
Gross Revenue (GR) during the year 2021	Rs. 2,68,580 Crore
% change in GR over the previous year	-2.05%
Adjusted Gross Revenue (AGR) during the year 2021	Rs. 2,08,583 Crore
% change in AGR over the previous year	14.36%
Share of Public Sector Operators in Access AGR	5.61%
<b>Broadcasting &amp; Cable Services</b>	
Number of private satellite TV channels permitted by the Ministry of I&B for uplinking only/ downlinking / uplinking	909
Number of Pay TV Channels	350
Number of private FM Radio Stations (excluding All India Radio)	386
Number of Pay Subscribers Active with Private DTH Operators	68.52 Million
Number of Operational Community Radio Stations	343
Number of pay DTH Operators	4
<b>Revenue &amp; Usage Parameters (for the Calendar Year 2021)</b>	
Monthly ARPU for Wireless (Full Mobility) Service	Rs.108.40
Minutes of Usage (MOU) per subscriber per month - Wireless (Full Mobility) Service	834 Minutes
Average Revenue for wireless data per data subscribers per month for wireless services	Rs.139.94
Average revenue realization per subscriber per GB wireless data during the year	Rs.9.96
Average wireless data usage per data subscriber per month	14.04 GB

## Introduction

This Report presents the Key Parameters and growth trends for the Telecom Services in India for the calendar year 2021. To provide a broad perspective on the Telecom Services and 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). Chapter-2 covers the key revenue and usage parameters of Wireless services. Chapter-3 provides the analysis relating to the wireless data service and revenue from wireless data. Chapter-4 gives the financial data. The information relating to Cable TV, DTH & Radio Broadcast services is provided in Chapter-5.

2. Key indicators of the report are as follows: -

- i. The total number of telephone subscribers increased from 1,173.83 million at the end of 2020 to 1,178.41 million at the end of 2021.
- ii. Total internet subscribers increased from 795.18 million at the end of Dec-2020 to 829.30 million at the end of Dec-2021. During the same period Broadband subscriber base has also increased from 747.41 million to 792.08 million.
- iii. ARPU per month increased from Rs.94.87 in the year 2020 to Rs.108.40 in the year 2021 and MoU per subscriber per month also increased from 759 minutes to 834 minutes during the same period.
- iv. Number of total active subscribers with pay DTH operators is reported as 68.52 million at the end of 2021.
- v. Total Gross Revenue of telecom sector decreased from Rs. 2,74,208/- crore in the year 2020 to Rs.2,68,580/- crore in the year 2021.

3. 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)) under the link <http://www.trai.gov.in/release-publication/reports/performance-indicators-reports>). For any suggestion or clarification pertaining to this report, the following persons may be contacted:

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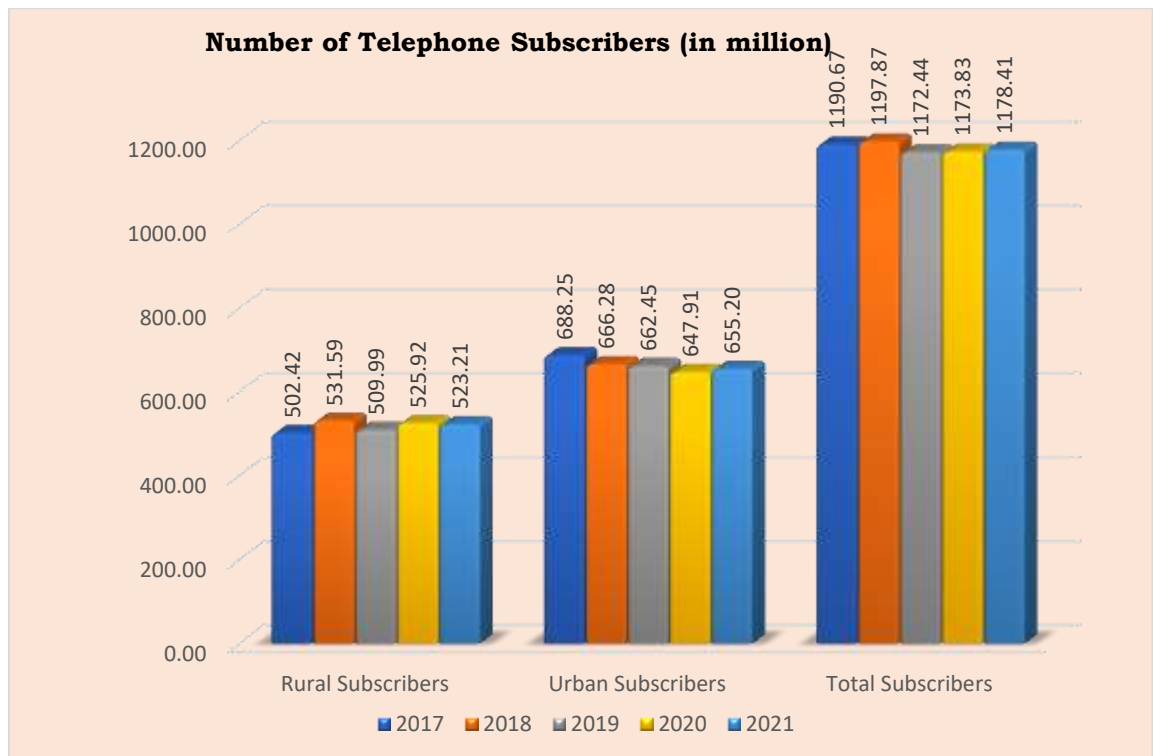
# Chapter 1: Subscription Data

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- Tele-density figures are derived from the subscriber data provided by the operators and the projection of population.
  - With effect from 1<sup>st</sup> January, 2020, the projection of population is based on 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)
  - The bifurcation of rural and urban subscriber data provided by the operators is based on different sources. E.g. one operator is deriving information from <https://censusindia.gov.in/census.website/> while others are procuring the data from concerned authorities/third party.

## Section A : Access Service – An overview

1. The number of telephone subscribers in India increased from 1,173.83 million at the end of Dec-20 to 1,178.41 million at the end of Dec-21, registering a yearly growth rate of 0.39%. However, the overall Tele-density\* in India declined from 86.38% at the end of Dec-20 to 85.91% at the end of Dec-21 at yearly decline rate of 0.54%.

**Chart 1.1: Trend of Telephone Subscriptions in India**



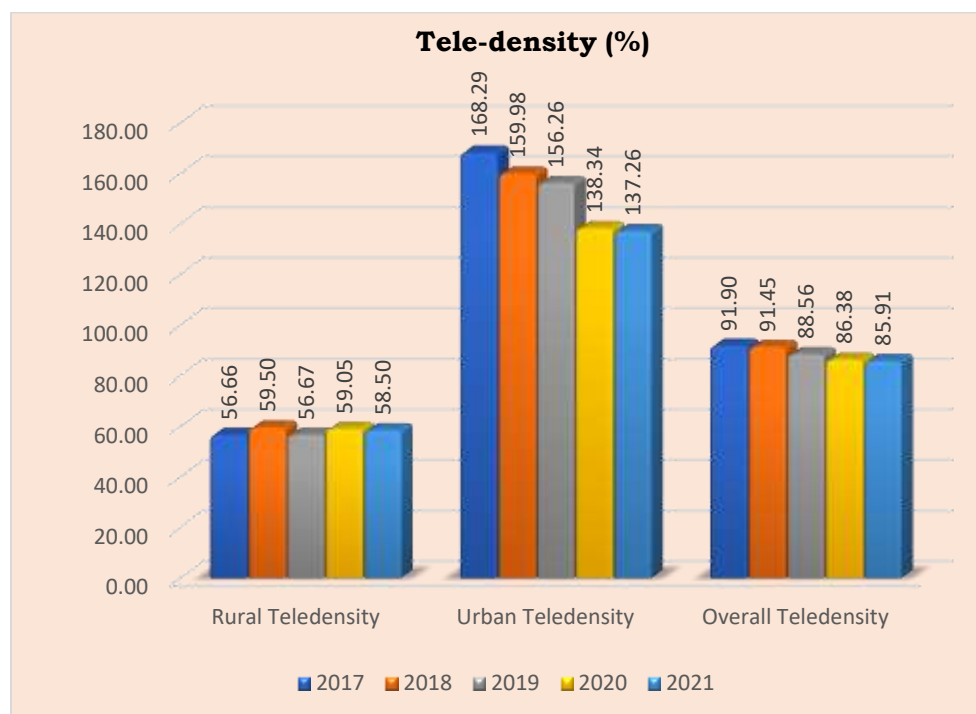
2. Telephone subscription in Urban Areas increased from 647.91 million at the end of Dec-20 to 655.20 million at the end of Dec-21 at the yearly growth rate of 1.13%. However, Urban Tele-density declined from 138.34% at the end of Dec-20 to 137.26% at the end of Dec-21 with yearly decline rate of 0.78%.

\* Tele-density – Number of telephone connections (fixed lines and mobile phone subscribers) per 100 inhabitants within a geographical area.

(Source-ITU)

3. Rural telephone subscription decreased from 525.92 million at the end of Dec-20 to 523.21 million at the end of Dec-21 at the yearly decline rate of 0.52%. Rural Tele-density also decreased from 59.05% at the end of Dec-20 to 58.50% at the end of Dec-21 with yearly decline rate of 0.93%.

**Chart 1.2: Trend of Tele-density in India**



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

Year ending	Subscriber Base (million)			Tele-density (%)		
	Rural	Urban	Total	Rural	Urban	Overall
2017	502.42	688.25	1190.67	56.66	168.29	91.90
2018	531.59	666.28	1197.87	59.50	159.98	91.45
2019	509.99	662.45	1172.44	56.67	156.26	88.56
2020	525.92	647.91	1173.83	59.05	138.34	86.38
2021	523.21	655.20	1178.41	58.50	137.26	85.91



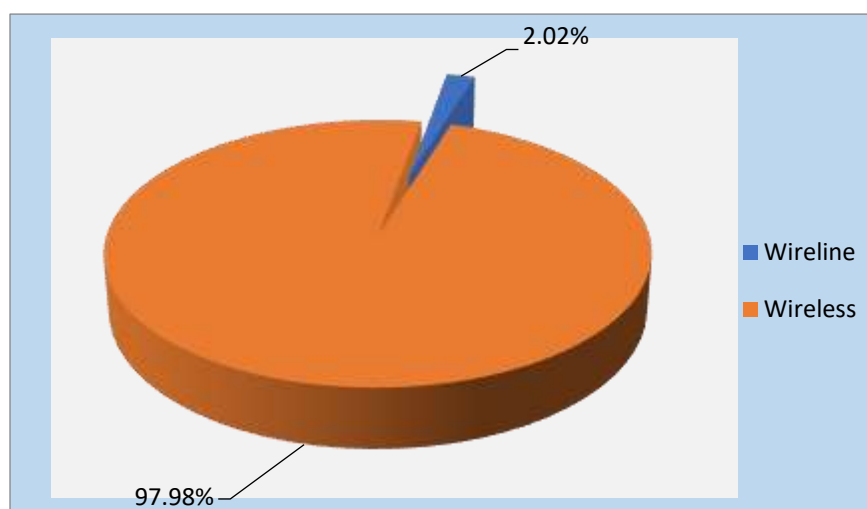
4. Out of the total telephone subscription, the shares of Rural telephone subscription decreased from 44.80% at the end of Dec-20 to 44.40% at the end of Dec-21. However, share of Urban telephone subscription in total telephone subscription, increased from 56.20% at the end of Dec-20 to 55.60% at the end of Dec-21. The following chart depicts the rural-urban market share of telephone subscribers at the end of Dec-21.

**Table 1.2 : Composition of Telephone Subscribers**

Network Type	Share (%)
Urban Wireless	53.75%
Rural Wireless	44.24%
Urban Wireline	1.85%
Rural Wireline	0.16%

5. Out of 1,178.41 million of total telephone subscriber, the number of Wireless Telephone subscribers is 1,154.62 million and the number of Wireline Telephone subscribers is 23.79 million at the end of Dec-21. The following chart depicts the market share of Wireless and Wireline subscribers in India.

**Chart 1.3: Composition of Market Share  
Wireless & Wireline Subscribers**



**Table 1.3: Service Area wise Access (Wireless+Wireline) Subscriber base**

Service Area	Subscribers (million)			
	Dec-20	Dec-21	Yearly Net Additions	Rate of Yearly Growth (%)
Andhra Pradesh	89.00	86.78	-2.22	-2.49%
Assam	24.17	24.42	0.25	1.04%
Bihar	85.10	87.82	2.71	3.19%
Delhi	55.90	56.40	0.50	0.89%
Gujarat	68.75	68.50	-0.24	-0.35%
Haryana	27.44	27.96	0.52	1.90%
Himachal Pradesh	11.14	10.46	-0.68	-6.12%
Jammu & Kashmir	11.96	12.07	0.11	0.88%
Karnataka	69.41	68.82	-0.59	-0.85%
Kerala	45.98	45.67	-0.31	-0.67%
Madhya Pradesh	76.20	78.34	2.14	2.80%
Maharashtra	94.54	93.78	-0.75	-0.80%
Mumbai	38.01	37.28	-0.73	-1.93%
North East	12.31	12.15	-0.16	-1.30%
Orissa	33.72	33.48	-0.24	-0.72%
Punjab	38.42	38.61	0.19	0.50%
Rajasthan	65.63	63.98	-1.65	-2.51%
Tamil Nadu	82.39	83.24	0.85	1.04%
U.P.(E)	98.98	101.03	2.05	2.07%
U.P.(W)	62.80	64.75	1.95	3.11%
Kolkata	26.83	25.21	-1.62	-6.05%
West Bengal	55.15	57.66	2.51	4.55%
<b>All India</b>	<b>1,173.83</b>	<b>1,178.41</b>	<b>4.58</b>	<b>0.39%</b>

6. During the year 2021, West Bengal service area has recorded the highest growth rate of 4.55% followed by Bihar service area with 3.19%. On the other hand, Himachal Pradesh service area showed maximum decline rate of 6.12% during the year 2021.

**Table 1.4: Service Area wise Rural-Urban Subscribers**

Service Area	Subscribers (million) as on 31 <sup>st</sup> December, 2021			
	Total	Rural	Urban	% of Rural Subscribers
Andhra Pradesh	86.78	44.40	42.48	44.30
Assam	24.42	15.19	15.24	9.18
Bihar	87.82	55.60	57.31	30.51
Delhi	56.40	2.25	1.81	54.59
Gujarat	68.50	27.30	26.82	41.68
Haryana	27.96	12.05	12.28	15.68
Himachal Pradesh	10.46	7.52	6.96	3.50
Jammu & Kashmir	12.07	5.58	5.60	6.47
Karnataka	68.82	27.57	26.45	42.37
Kerala	45.67	21.24	20.43	25.24
Madhya Pradesh	78.34	34.41	35.06	43.27
Maharashtra	93.78	43.53	42.77	51.02
Mumbai	37.28	1.29	1.14	36.14
North East	12.15	6.55	6.31	5.84
Orissa	33.48	21.91	21.77	11.71
Punjab	38.61	13.17	12.99	25.62
Rajasthan	63.98	35.56	34.55	29.43
Tamil Nadu	83.24	23.87	24.13	59.11
U.P.(E)	101.03	61.35	61.91	39.12
U.P.(W)	64.75	29.68	30.57	34.18
Kolkata	25.21	1.85	1.60	23.61
West Bengal	57.66	34.07	35.04	22.62
<b>All India</b>	<b>1,178.41</b>	<b>523.21</b>	<b>655.20</b>	<b>44.40%</b>

**Table 1.5 : Service Area wise Tele-density**

Service Area/ States	As on 31 <sup>st</sup> December, 2020			As on 31 <sup>st</sup> December, 2021		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Andhra Pradesh	81.58	123.87	98.42	78.56	120.54	95.55
Assam	51.28	167.79	69.10	51.02	168.58	69.15
Bihar	40.76	119.14	52.80	41.46	120.66	53.71
Delhi	-	-	272.59	-	-	269.86
Gujarat	74.42	121.83	97.23	72.90	119.53	95.60
Haryana	69.22	128.17	93.29	70.35	127.16	93.87
Himachal Pradesh	113.45	478.12	150.86	104.48	458.79	140.90
J&K	58.23	155.61	87.38	58.18	155.20	87.51
Karnataka	72.92	144.51	103.97	70.10	143.79	102.41
Kerala	203.98	98.50	129.42	211.14	97.06	128.01
Madhya Pradesh	42.10	130.49	66.99	42.47	132.71	68.03
Maharashtra (incl. Mumbai)*	68.86	144.50	105.36	67.28	141.59	103.35
North East	63.69	111.80	79.75	61.36	110.26	77.99
Orissa	61.08	145.27	76.63	60.62	142.21	75.85
Punjab	73.71	185.14	121.94	72.66	185.07	121.72
Rajasthan	60.99	144.50	82.96	58.72	139.08	79.97
Tamil Nadu	65.29	141.54	105.75	66.38	141.28	106.45
Uttar Pradesh (incl. UPE & UPW)	49.69	120.72	66.91	50.05	122.92	67.83
West Bengal (incl. Kolkata)*	56.61	129.22	82.73	57.84	127.51	83.20
<b>All India</b>	<b>59.05</b>	<b>138.34</b>	<b>86.38</b>	<b>58.50</b>	<b>137.26</b>	<b>85.91</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.
2. With effect from 1<sup>st</sup> January, 2020, the projection of population is based on 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)
3. The bifurcation of rural and urban subscriber data provided by the operators is based on different sources. E.g. one operator is deriving information from <https://censusindia.gov.in/census.website/> while others are procuring the data from concerned authorities/third party.
4. 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).
5. 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.

7. Kerala service area has the highest Rural Tele-density of 211.14% followed by Himachal Pradesh service area with 104.48% at the end of Dec-21. On the other hand, Bihar service area have the lowest Rural Tele-density of 41.46% in the same period.

**Table 1.6: Service Provider-wise growth in Subscriber base**

Service Provider	Subscriber base (in million)			Rate of Growth (%)	Market Share as on Dec-20 (%)	Market Share as on Dec-21 (%)
	Dec-20	Dec-21	Yearly Net Addition/ decline			
Bharti Airtel	343.27	361.35	18.08	5.27	29.24	30.66
Reliance Jio	411.53	421.05	9.52	2.31	35.06	35.73
Quadrant	0.20	0.21	0.01	4.35	0.02	0.02
BSNL	125.88	121.95	-3.93	-3.12	10.72	10.35
Tata Tele.	1.66	1.60	-0.06	-3.56	0.14	0.14
MTNL	6.28	6.01	-0.27	-4.23	0.53	0.51
Vodafone Idea	284.78	266.05	-18.73	-6.58	24.26	22.58
Reliance Com.	0.23	0.19	-0.05	-19.78	0.02	0.02
<b>Total</b>	<b>1,173.83</b>	<b>1,178.41</b>	<b>4.58</b>	<b>0.39</b>	<b>100</b>	<b>100</b>

8. M/s Bharti Airtel Ltd has added maximum number of telephone subscribers 18.08 million (net addition) during the year 2021. All service providers except Bharti Airtel Limited, M/s Reliance Jio Infocomm and Quadrant have registered decline in their subscriber base during the year 2021.

**Table 1.7 : Service provider-wise Market Share of rural subscribers in their total subscribers – as on 31<sup>st</sup> December, 2021**

<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	421.05	180.00	42.75%	34.40%
Bharti	361.35	170.15	47.09%	32.52%
Vodafone Idea Ltd	266.05	134.33	50.49%	25.67%
BSNL	121.95	38.63	31.68%	7.38%
Tata	1.60	0.04	2.38%	0.01%
Quadrant	0.21	0.02	11.19%	0.00%
MTNL	6.01	0.05	0.75%	0.01%
Reliance Comm.	0.19	0.00	0.10%	0.00%
<b>Total</b>	<b>1,178.41</b>	<b>523.21</b>	<b>100</b>	<b>100</b>

9. M/s Vodafone Idea Ltd is the service provider with highest proportion of rural subscribers of 50.49%, followed by Bharti Airtel with 47.09% to their total number of telephone subscribers at the end of Dec-21.

## Section B : Wireless Service

**Table 1.8: List of Cellular Mobile Service Providers currently providing service [As on 31<sup>st</sup> December, 2021]**

Sl.No.	Service Provider	Area of Operation
1	Bharti Airtel Ltd	All India
2	Reliance Communications/ Reliance Telecom Ltd	All India (except Assam & North East)/Kolkata, Madhya Pradesh, West Bengal, Himachal Pradesh, Bihar, Odisha, Assam & North East
3	Vodafone Idea Ltd	All India
4	BSNL	All India (except Delhi & Mumbai)
5	MTNL	Delhi & Mumbai
6	Reliance Jio Infocom Ltd	All India

*Source : DoT website*

**UL Access Services Licensees Virtual Network Operators (VNOs) who are providing services as on 31<sup>st</sup> December, 2021**

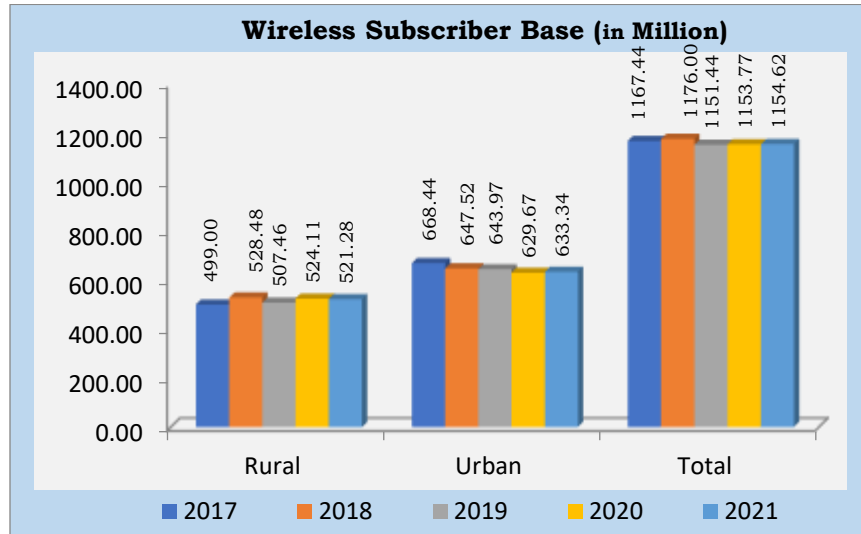
1	Surftelcom Pvt. Ltd (Formerly Plintron India Pvt. Ltd.	All India
2	AdPay Mobile Payment India Pvt. Ltd	Tamil Nadu including Chennai

*Source : As reported by telecom service providers*

10. Total Wireless subscribers increased from 1,153.77 million at the end of Dec-20 to 1,154.62 million at the end of Dec-21, thereby showing a yearly growth rate of 0.07%. During the year 2021, net addition of 0.85 million wireless subscribers was recorded.
11. The Rural Wireless subscribers decreased from 524.11 million at the end of Dec-20 to 521.28 million at the end of Dec-21 with yearly decline rate of 0.54%

12. The urban wireless subscribers increased from 629.67 million at the end of Dec-20 to 633.34 million at the end of Dec-21 with yearly decline rate of 0.58%.
13. The following chart and table depict the trend of total, rural and urban wireless subscribers during last five years.

**Chart 1.4: Trend of Wireless Subscriber Base**



**Table 1.9: Wireless Subscriber Base & Tele-density - Rural & Urban**

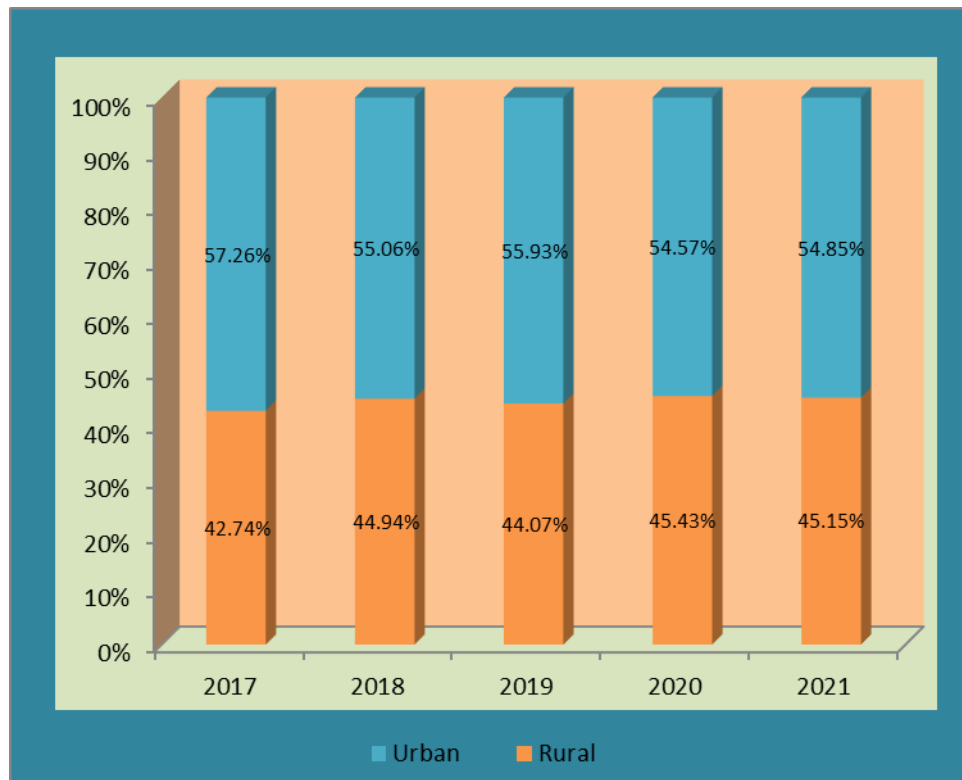
Year ending	Subscriber Base (million)			Tele-density (%)		
	Rural	Urban	Total	Rural	Urban	Overall
Dec-17	499.00	668.44	1167.44	56.28	163.44	90.11
Dec-18	528.48	647.52	1176.00	59.15	155.48	89.78
Dec-19	507.46	643.97	1151.44	56.39	151.90	86.98
Dec-20	524.11	629.67	1153.77	58.85	134.44	84.90
Dec-21	521.28	633.34	1154.62	58.28	132.68	84.17

14. Overall Wireless Teledensity decreased from 84.90% at the end of Dec-20 to 84.17% at the end of Dec-21. Rural wireless Teledensity decreased from 58.85% to 58.28% and Urban wireless Teledensity also decreased from 134.44% to 132.68% at the end of Dec-21.



15. The share of rural wireless subscription decreased from 45.43% at the end of Dec-20 to 45.15% at the end of Dec-21, however the share of urban wireless subscription increased from 54.57% to 54.85% during the same period.
16. The following chart depicts the composition of rural-urban market share in total wireless telephone subscribers during last five years.

**Chart 1.5: Composition of Wireless Market Share – Rural & Urban Subscribers**



**Table 1.10: Growth in Wireless Subscriber base**

Service Provider	Subscriber Base (millions)			Rate of Growth (%)	Market Share Dec-20 (%)	Market Share Dec-21 (%)
	Dec-20	Dec-21	Net Additions			
Bharti	338.71	355.77	17.06	5.04	29.36	30.81
Reliance Jio	408.77	415.72	6.94	1.70	35.43	36.00
BSNL	118.71	114.36	-4.35	-3.67	10.29	9.90
MTNL	3.32	3.26	-0.06	-1.82	0.29	0.28
Vodafone IDEA	284.26	265.51	-18.74	-6.59	24.64	23.00
Reliance Comm. Group	0.011	0.004	-0.007	-64.62	0.001	0.00
<b>Total</b>	<b>1,153.77</b>	<b>1,154.62</b>	<b>0.85</b>	<b>0.07</b>	<b>100</b>	<b>100</b>

Note: The subscribers of M/s Bharti Airtel includes subscribers of M/s Tata Teleservices Ltd.

17. M/s Reliance Jio continued to the market leader with 36% market share of total wireless telephone subscriber base at the end of Dec-21 followed by M/s Bharti Telemedia Limited with 30.81% market share.
18. In term of net addition, M/s Bharti Airtel Ltd. Ltd added maximum number of telephone subscribers of 17.06 million during the year 2021 and its yearly growth rate recorded as 5.04% during the year 2021.

**Table 1.11: Service Area wise Wireless Subscriber base**

Service Area	Subscriber base (in million)			
	Dec-20	Dec-21	Net Additions	Rate of change (%)
Andhra Pradesh	87.62	84.91	-2.71	-3.09
Assam	24.05	24.23	0.19	0.78
Bihar	84.89	87.41	2.52	2.97
Delhi	52.59	52.60	0.00	0.00
Gujarat	67.78	67.47	-0.31	-0.46
Haryana	27.13	27.64	0.51	1.88

Service Area	Subscriber base (in million)			
	Dec-20	Dec-21	Net Additions	Rate of change (%)
Himachal Pradesh	11.05	10.35	-0.71	-6.41
Jammu & Kashmir	11.80	11.80	0.00	-0.01
Karnataka	67.23	66.28	-0.95	-1.42
Kerala	44.68	44.37	-0.31	-0.69
Madhya Pradesh	75.51	77.37	1.87	2.47
Maharashtra	93.27	92.41	-0.86	-0.92
Mumbai	34.99	34.18	-0.81	-2.32
North East	12.21	12.00	-0.21	-1.73
Odisha	33.51	33.18	-0.34	-1.01
Punjab	37.73	37.80	0.07	0.20
Rajasthan	65.16	63.33	-1.83	-2.81
Tamil Nadu	80.46	80.95	0.49	0.61
U.P.(E)	98.59	100.46	1.87	1.90
U.P.(W)	62.43	64.21	1.78	2.85
Kolkata	26.17	24.35	-1.81	-6.93
West Bengal	54.91	57.31	2.40	4.37
<b>All India</b>	<b>1,153.77</b>	<b>1,154.62</b>	<b>0.85</b>	<b>0.07</b>

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

**Table 1.12: Service Area wise Wireless Rural-Urban Subscriber base**

Service Area	Subscriber base (in million) – Dec-21			
	Total	Rural	Urban	% of Rural Subscribers
Andhra Pradesh	84.91	42.31	42.60	49.82
Assam	24.23	15.22	9.01	62.82
Bihar	87.41	57.27	30.14	65.52
Delhi	52.60	1.81	50.79	3.44
Gujarat	67.47	26.76	40.72	39.65

Service Area	Subscriber base (in million) – Dec-21			
	Total	Rural	Urban	% of Rural Subscribers
Haryana	27.64	12.23	15.42	44.23
Himachal Pradesh	10.35	6.91	3.44	66.76
Jammu & Kashmir	11.80	5.58	6.22	47.29
Karnataka	66.28	26.35	39.93	39.76
Kerala	44.37	19.79	24.58	44.60
Madhya Pradesh	77.37	35.04	42.33	45.29
Maharashtra	92.41	42.61	49.80	46.11
Mumbai	34.18	1.14	33.04	3.34
North East	12.00	6.30	5.70	52.47
Odisha	33.18	21.73	11.45	65.50
Punjab	37.80	12.88	24.92	34.07
Rajasthan	63.33	34.51	28.82	54.49
Tamil Nadu	80.95	23.88	57.08	29.49
U.P.(E)	100.46	61.88	38.59	61.59
U.P.(W)	64.21	30.54	33.66	47.57
Kolkata	24.35	1.60	22.75	6.58
West Bengal	57.31	34.95	22.36	60.99
<b>All India</b>	<b>1,154.62</b>	<b>521.28</b>	<b>633.34</b>	<b>45.15</b>

**Table 1.13 : Service Area wise Wireless Tele-density**

Service Area	As on 31 <sup>st</sup> December, 2020			As on 31 <sup>st</sup> December, 2021		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
A.P.	81.37	120.37	96.90	78.25	115.92	93.50
Assam	51.23	165.72	68.74	50.96	165.43	68.61
Bihar	40.74	118.36	52.67	41.44	119.20	53.47
Delhi	-	-	256.46	-	-	251.66
Gujarat	74.23	119.21	95.87	72.73	116.77	94.16
Haryana	69.02	125.90	92.24	70.06	125.00	92.81
H.P.	112.74	472.52	149.66	103.68	450.54	139.34
J&K	58.12	151.99	86.22	58.03	149.19	85.59
Karnataka	72.69	137.28	100.71	69.83	135.51	98.63
Kerala	197.20	96.14	125.76	204.48	94.54	124.36
M.P.	42.08	128.39	66.38	42.45	129.82	67.19
Maharashtra (incl. Mumbai)*	68.60	137.71	101.95	67.04	134.58	99.82
North East	63.58	110.08	79.11	61.23	107.65	77.02
Odisha	60.99	143.15	76.16	60.52	138.97	75.16
Punjab	73.12	180.84	119.75	72.05	180.01	119.17
Rajasthan	60.93	142.40	82.36	58.64	136.20	79.16
Tamil Nadu	64.69	137.42	103.28	65.67	136.41	103.53
Uttar Pradesh (incl. UPE&UPW)*	49.66	119.52	66.60	50.02	121.16	67.38
West Bengal (incl. Kolkata)*	56.50	126.87	81.81	57.70	124.42	81.99
<b>All India</b>	<b>58.85</b>	<b>134.44</b>	<b>84.90</b>	<b>58.28</b>	<b>132.68</b>	<b>84.17</b>

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

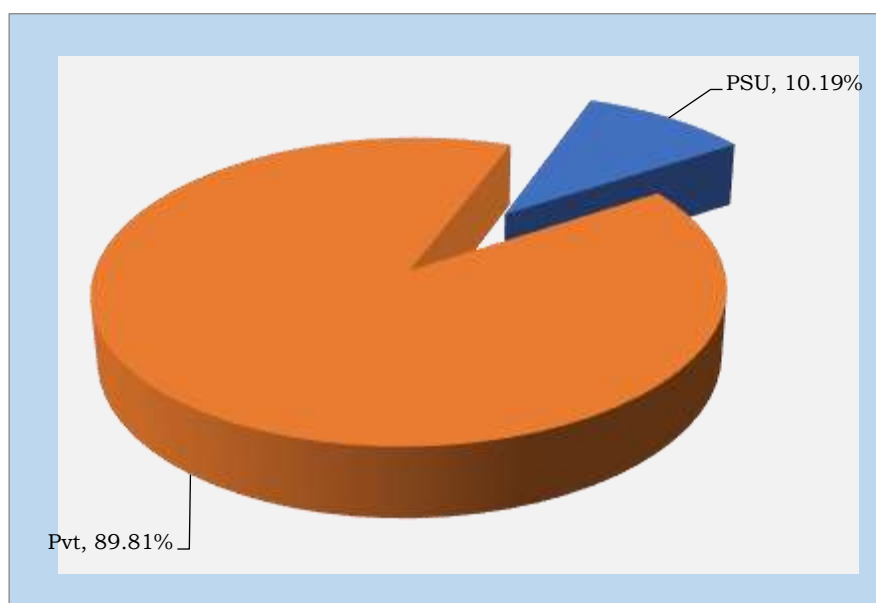
**Notes:**

1. Tele-density figures are derived from the subscriber data provided by the operators and the projection of population.
2. With effect from 1<sup>st</sup> January, 2020, the projection of population is based on 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)
3. The bifurcation of rural and urban subscriber data provided by the operators is based on different sources. E.g. one operator is deriving information from <https://censusindia.gov.in/census.website/> while others are procuring the data from concerned authorities/third party.
4. Delhi service area, apart from the State of Delhi, includes the areas served by the local exchanges of Ghaziabad & Noida (in UP) and Gurgaon & Faridabad (in Haryana).
5. 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 1.14 : Rural Wireless Subscriber base and Market Share**

Service Provider	Total number of wireless Subscribers (in millions)	Rural Subscribers (in millions)	% of Rural subscribers in total	Market Share of Rural Subscribers (%)
Bharti	355.77	170.15	47.83	32.64
Vodafone IDEA	265.51	134.33	50.59	25.77
Reliance Comm. Group	0.004	0.00	0.00	0.00
BSNL	114.36	36.83	32.20	7.06
MTNL	3.26	0.05	1.38	0.01
Reliance Jio	415.72	179.93	43.28	34.52
<b>Total</b>	<b>1,154.62</b>	<b>521.28</b>	<b>45.15</b>	<b>100</b>

**Chart 1.6: Composition of Public (PSUs) and Private sectors in Wireless Subscription as on 31.12.2021**



20. Private telecom service providers hold 89.81% market share of total wireless telephone subscriptions and PSUs (BSNL & MTNL) hold only 10.19% market share of wireless telephone subscription as on 31<sup>st</sup> December, 2021.

## Section C : Wireline Service

**Table 1.15 : Service Providers providing Wireline Service**

[As on 31<sup>st</sup> December, 2021]

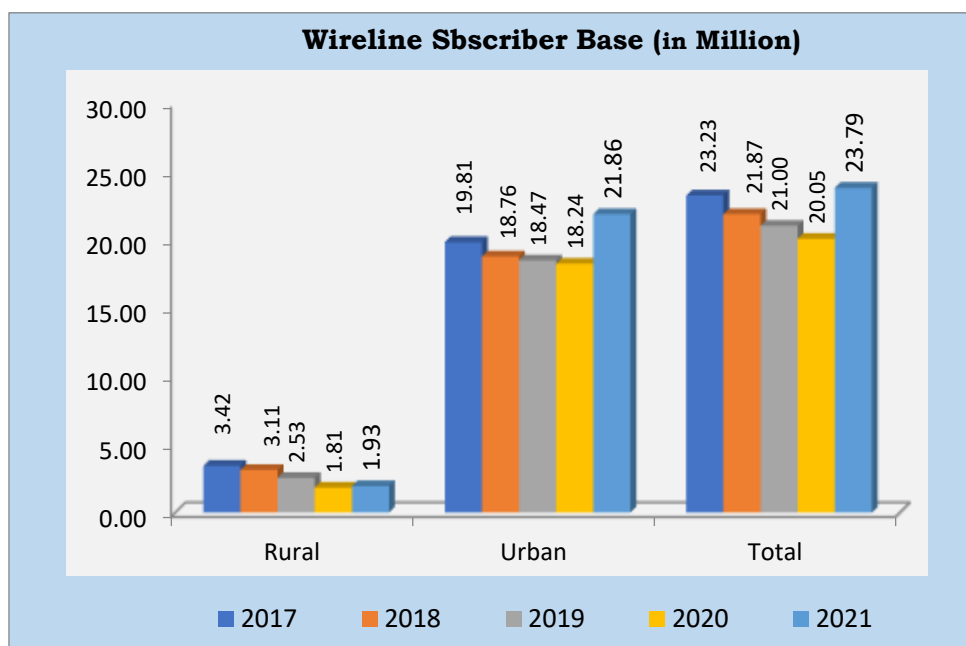
Sl. No.	Name of the Service Provider	Area of Operation
1	Bharti Airtel Ltd	Andhra Pradesh, Delhi, Gujarat, Haryana, Jammu & Kashmir, Karnataka, Kerala, Kolkata, Madhya Pradesh, Maharashtra, Mumbai, Punjab, Rajasthan, Tamil Nadu, UP-East and UP-West.
2	BSNL	All India except Delhi & Mumbai
3	MTNL	Delhi & 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, UP-East, UPWest 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, 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, UPEast, 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, UPEast, UP-West and West Bengal.

21. Total Wireline subscriber base increased from 20.05 million at the end of Dec-20 to 23.79 million at the end of Dec-21 with yearly growth rate of 18.63%.
22. Detailed table on service provider wise wireline subscriber base in each service area is available at **Annexure-1.2**.
23. Rural wireline subscriber base has shown growth of 6.31%, from 1.81 million at the end of Dec-20 to 1.93 million at the end of Dec-21.

During the same period, Urban wireline subscription also recorded growth of 19.85%, from 18.24 million to 21.86 million.

24. The following chart and table depict the trend of wireline subscriber base and wireline tele-density (rural-urban) during the last five years.

**Chart 1.7: Trend of Wireline Subscriber Base**



**Table 1.16 : Wireline Subscriber Base & Tele-density - Rural & Urban**

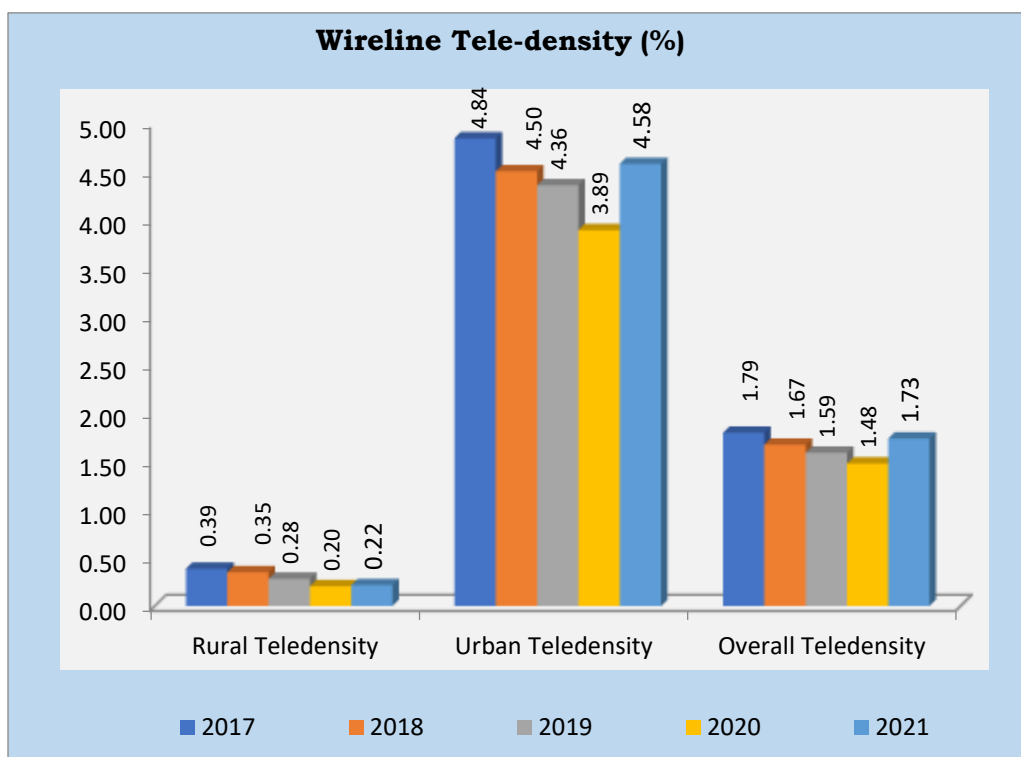
Year ending	Subscriber Base (in million)			Wireline Tele-density (%)		
	Rural	Urban	Total	Rural	Urban	Overall
Dec-17	3.42	19.81	23.23	0.39	4.84	1.79
Dec-18	3.11	18.76	21.87	0.35	4.50	1.67
Dec-19	2.53	18.47	21.00	0.28	4.36	1.59
Dec-20	1.81	18.24	20.05	0.20	3.89	1.48
Dec-21	1.93	21.86	23.79	0.22	4.58	1.73

25. Overall Wireline Tele-density increased from 1.48% at the end of Dec-20 to 1.73% at the end of Dec-21. During the same period Rural



wireline tele-density increased from 0.20% to 0.22% and Urban wireline tele-density also increased from 3.89% to 4.58%.

**Chart 1.8: Trend of Wireline Tele-density (rural-urban)**



**Table 1.17 : Service Provider wise growth in Wireline Subscriber base**

Service Provider	Subscriber Base (million)			Rate of change (%)	Market share-Dec-20 (%)	Market share-Dec-21 (%)
	Dec-20	Dec-21	Net Addition			
Reliance Jio	2.75	5.33	2.58	93.57	13.74	22.42
Vodafone Idea	0.52	0.53	0.01	2.34	2.60	2.24
Bharti	4.57	5.58	1.01	22.23	22.77	23.46
Quadrant	0.20	0.21	0.01	4.35	1.01	0.89
MTNL	2.96	2.75	-0.21	-6.94	14.76	11.58
Tata	1.66	1.60	-0.06	-3.56	8.26	6.71
BSNL	7.17	7.59	0.42	5.93	35.75	31.92
Reliance Comm	0.22	0.18	-0.04	-17.64	1.10	0.77
<b>Total</b>	<b>20.05</b>	<b>23.79</b>	<b>3.74</b>	<b>18.63</b>	<b>100</b>	<b>100</b>

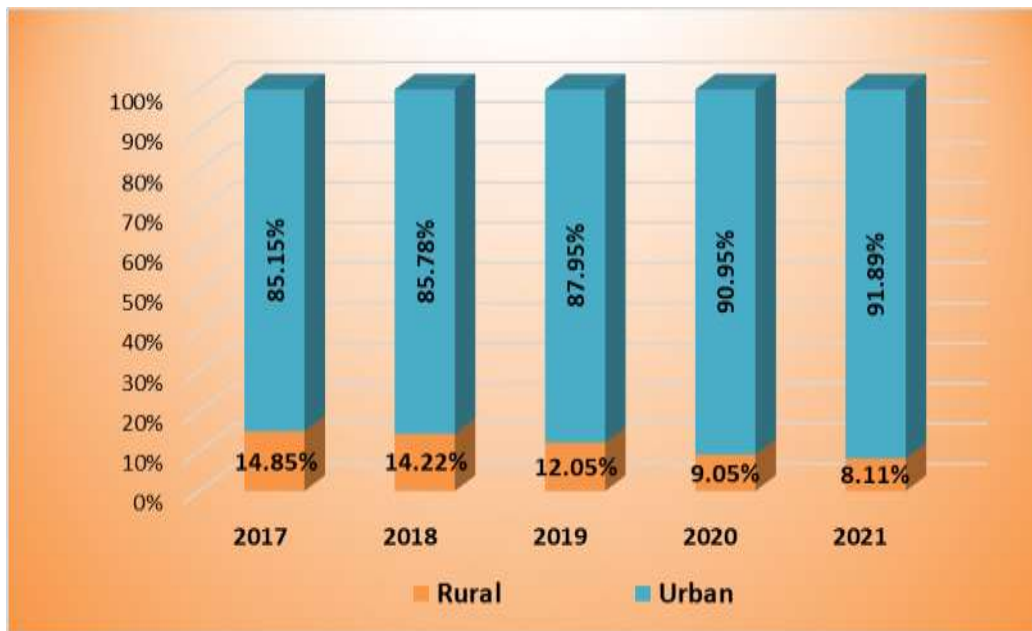
26. M/s BSNL is the leading operator in wireline service with 7.59 million subscriber at the end of Dec-21 followed by Bharti with 5.58 million subscribers.
27. In term of net addition, except MTNL, Tata and Reliance Comm., all service providers showed positive growth during the year 2021.
28. In total wireline subscriber base, PSUs hold 43.50% of market share at the end of Dec-21 as against 50.51% at the end of Dec-20. BSNL showed growth in its wireline subscriber, however MTNL showed decline in its wireline subscriber base at the end of Dec-21.

**Table 1.18 : Service Provider wise Subscriber base (Rural - Urban)**

Service Provider	Subscriber Base (million) Dec-21			Share of Rural subscription (%)
	Rural	Urban	Total	
BSNL	1.80	5.79	7.59	23.72
Bharti	0.00	5.58	5.58	-
MTNL	0.00	2.75	2.75	-
Tata	0.04	1.56	1.60	2.38
Reliance	0.00	0.18	0.18	0.10
Quadrant	0.02	0.19	0.21	11.19
Vodafone	0.00	0.53	0.53	-
Reliance Jio	0.07	5.27	5.33	1.24
<b>Total</b>	<b>1.93</b>	<b>21.86</b>	<b>23.79</b>	<b>8.11</b>

29. The following charts show the trend of share of rural-urban wireline subscription during last five years.

**Chart 1.9: Composition of Wireline Subscriber base - Rural & Urban**



30. As may be seen that share of rural wireline subscription showed declined trend year-on-year. The share of rural wireline subscribers was only 8.11% over the total wireline subscribers at the end of year 2021.

**Table 1.19: Service Area wise Wireline Subscriber base & Net Additions (in million)**

<b>Service Area</b>	<b>Dec-20</b>	<b>Dec-21</b>	<b>Net Additions</b>	<b>Rate of Change (%)</b>
Andhra Pradesh	1.38	1.87	0.49	35.60
Assam	0.13	0.19	0.06	50.89
Bihar	0.21	0.40	0.19	88.52
Delhi	3.31	3.80	0.49	14.95
Gujarat	0.96	1.03	0.07	6.94
Haryana	0.31	0.32	0.01	3.00
Himachal Pradesh	0.09	0.12	0.03	29.78
Jammu & Kashmir	0.16	0.26	0.11	67.25
Karnataka	2.18	2.54	0.36	16.64
Kerala	1.30	1.30	0.00	0.14
Madhya Pradesh	0.69	0.96	0.27	39.04
Maharashtra	1.27	1.37	0.11	8.37
Mumbai	3.02	3.10	0.08	2.62
North East	0.10	0.15	0.05	51.37
Odisha	0.21	0.30	0.10	47.26
Punjab	0.69	0.81	0.12	17.28
Rajasthan	0.47	0.65	0.19	39.63
Tamil Nadu	1.92	2.29	0.37	19.07
U.P.(E)	0.39	0.57	0.18	46.03
U.P.(W)	0.37	0.54	0.17	46.85
Kolkata	0.67	0.85	0.19	28.34
West Bengal	0.24	0.35	0.11	44.47
<b>All India</b>	<b>20.05</b>	<b>23.79</b>	<b>3.74</b>	<b>18.63</b>

31. As can be seen from the above table all LSA showed growth in their wireline subscriber base during the year 2021.

**Table 1.20: Service Area wise Wireline Rural-Urban Subscriber Base  
(in million)**

<b>Service Area</b>	<b>Total Subscribers</b>	<b>Rural Subscribers</b>	<b>Urban Subscribers</b>	<b>% of Rural Subscribers</b>
Andhra Pradesh	1.87	0.17	1.70	9.07
Assam	0.19	0.02	0.17	9.60
Bihar	0.40	0.03	0.37	8.38
Delhi	3.80	0.00	3.80	0.01
Gujarat	1.03	0.06	0.96	6.22
Haryana	0.32	0.05	0.27	15.95
Himachal Pradesh	0.12	0.05	0.06	45.70
Jammu & Kashmir	0.26	0.01	0.25	5.37
Karnataka	2.54	0.10	2.44	3.92
Kerala	1.30	0.64	0.66	49.52
Madhya Pradesh	0.96	0.02	0.94	2.23
Maharashtra	1.37	0.16	1.21	11.45
Mumbai	3.10	0.00	3.10	0.06
North East	0.15	0.01	0.14	8.62
Odisha	0.30	0.04	0.27	11.96
Punjab	0.81	0.11	0.70	13.45
Rajasthan	0.65	0.04	0.61	6.44
Tamil Nadu	2.29	0.26	2.03	11.16
U.P.(E)	0.57	0.03	0.53	5.59
U.P.(W)	0.54	0.03	0.51	5.10
Kolkata	0.85	0.00	0.85	0.00
West Bengal	0.35	0.09	0.27	24.50
<b>All India</b>	<b>23.79</b>	<b>1.93</b>	<b>21.86</b>	<b>8.11</b>

32. In the above table, it can be seen that Kerala service area has maximum 49.52% followed by Himachal Pradesh 45.70% of their total wireline subscribers at the end of Dec-21.

**Table 1.21: Service Area wise Wireline Tele-density**

Service Area	As on 31 <sup>st</sup> December, 2020			As on 31 <sup>st</sup> December, 2021		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Andhra Pradesh	0.21	3.51	1.52	0.31	4.62	2.06
Assam	0.05	2.07	0.36	0.06	3.15	0.54
Bihar	0.02	0.77	0.13	0.02	1.46	0.25
Delhi	-	-	16.13	-	-	18.20
Gujarat	0.19	2.63	1.36	0.17	2.77	1.44
Haryana	0.20	2.27	1.05	0.29	2.16	1.06
Himachal Pradesh	0.71	5.59	1.21	0.79	8.24	1.56
Jammu & Kashmir	0.10	3.62	1.16	0.15	6.01	1.92
Karnataka	0.23	7.23	3.26	0.26	8.28	3.78
Kerala	6.78	2.36	3.66	6.66	2.53	3.65
Madhya Pradesh	0.02	2.11	0.61	0.03	2.89	0.84
Maharashtra (incl. Mumbai)*	0.25	6.79	3.41	0.24	7.01	3.53
North East	0.11	1.72	0.65	0.13	2.60	0.97
Orissa	0.10	2.12	0.47	0.10	3.25	0.69
Punjab	0.59	4.30	2.19	0.61	5.07	2.55
Rajasthan	0.05	2.10	0.59	0.07	2.88	0.82
Tamil Nadu (incl. Chennai)	0.60	4.12	2.47	0.70	4.86	2.93
Uttar Pradesh (incl. UPE & UPW)	0.03	1.20	0.31	0.03	1.76	0.45
West Bengal (incl. Kolkata)*	0.12	2.35	0.92	0.14	3.09	1.21
<b>All India</b>	<b>0.20</b>	<b>3.89</b>	<b>1.48</b>	<b>0.22</b>	<b>4.58</b>	<b>1.73</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 the projection of population.
2. With effect from 1<sup>st</sup> January, 2020, the projection of population is based on 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)
3. The bifurcation of rural and urban subscriber data provided by the operators is based on different sources. E.g. one operator is deriving information from <https://censusindia.gov.in/census.website/> while others are procuring the data from concerned authorities/third party.
4. 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.

## Public Call Offices (PCO)

33. Total number of PCOs in the country declined from 1.37 lakh at the end of Dec-20 to 0.74 lakh at the end of Dec-21 with yearly declining rate of 46.26%. Detailed table of service provider wise PCOs is available at **Annexure -1.3**.

**Table 1.22 : Rate of change & Market share of PCOs**

Service Provider	Dec-20	Dec-21	Rate of change (%)	Market share (%) (Dec-21)
BSNL	78722	51522	-34.55%	69.97
MTNL	53713	17796	-66.87%	24.17
Bharti	4058	3877	-4.46%	5.27
Quadrant	522	439	-15.90%	0.60
<b>Total</b>	<b>137015</b>	<b>73634</b>	<b>-46.26%</b>	<b>100</b>

34. M/s BSNL is the market leader in term of number of PCOs with 69.97% of total number of PCOs followed by MTNL with 24.17% at the end of Dec-21.
35. It may be seen in the following chart that the number of PCOs in India continuously showing year-on-year declining trend. The following chart depicts the trend of number of PCOs in last five years.

**Chart 1.10: Trend of Number of PCOs in India (in lakh)**

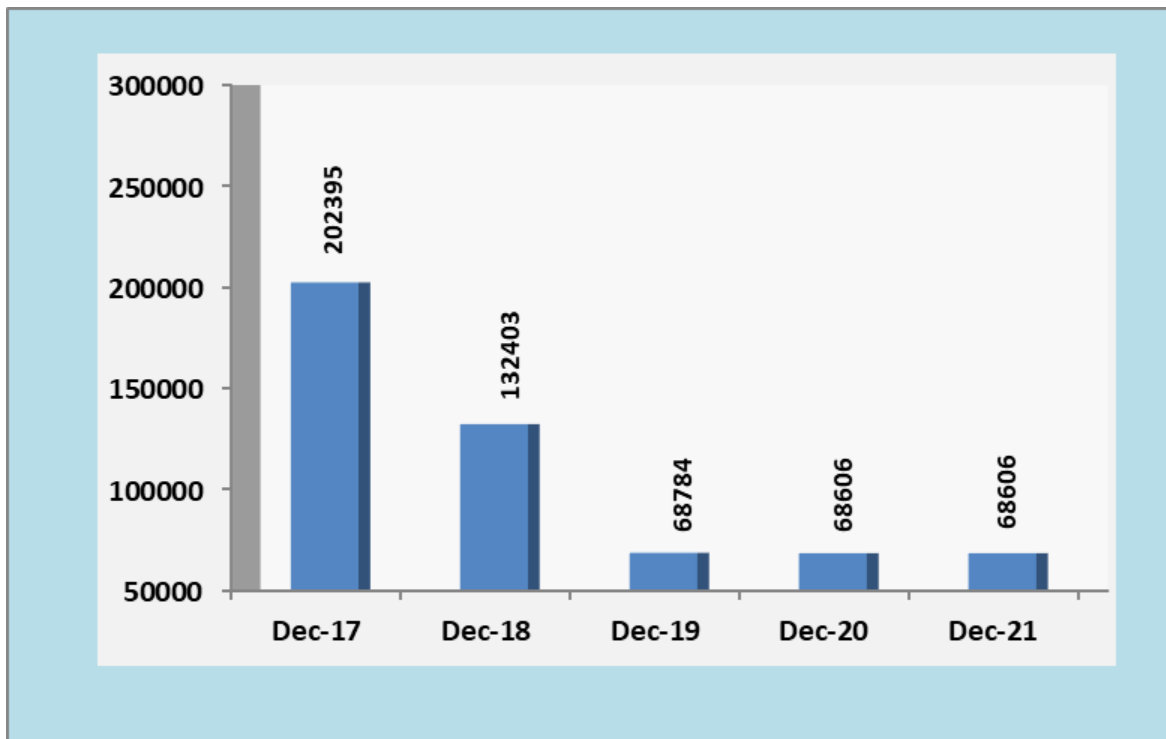


### **Village Public Telephones (VPTs)**

36. There are 5,93,731 inhabited villages in India as per census 2001. At the end of Dec-21, 11.56% of the total inhabited villages in India have been connected by VPTs.
37. Number of VPTs remained same i.e. 68,606 at the end of Dec-21 as were at the end of Dec-20. As per the information received in TRAI as on December, 2021 only M/s BSNL is providing VPT service in India. Service area wise detailed table of VPT is available at Annexure -1.4.
38. The following chart depicts the trend of number of VPTs in India during last five years.



**Chart 1.11: Trend of Number of VPTs in India**



## Section D : Internet Service

39. This section summarizes information submitted by 639 operators for the year ending 2021. **Part-I** consists of information of Internet services (both narrowband and broadband), **Part-II** consists of broadband services and **Part-III** covers narrowband services.

### **Part-I : Internet<sup>†</sup> Service (broadband<sup>‡</sup> + narrowband<sup>§</sup>)**

40. As per reports received from operators, total number of internet subscribers increased from 795.18 million at the end of Dec-20 to 829.30 million at the end of Dec-21 with yearly growth rate of 4.29%. Out of total 829.30 million internet subscribers, number of broadband subscribers is 792.08 million and number of narrowband subscribers is 37.21 million at the end of Dec-21.
41. Wireless Internet subscribers increased from 769.64 million at the end of Dec-20 to 802.72 million at the end of Dec-21 with yearly growth rate of 4.30%. Wired Internet subscribers increased from 25.54 million at the end of Dec-20 to 26.58 million at the end of Dec-21 with yearly growth rate of 4.05%.
42. Number of Broadband subscribers increased from 747.41 million at the end of Dec-20 to 792.09 million at the end of Dec-21 with yearly growth rate of 5.98%. However, the number of Narrowband subscribers declined from 47.77 million at the end of Dec-20 to 37.21 million at the end of Dec-21 with yearly declining rate of 22.11%.

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

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

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

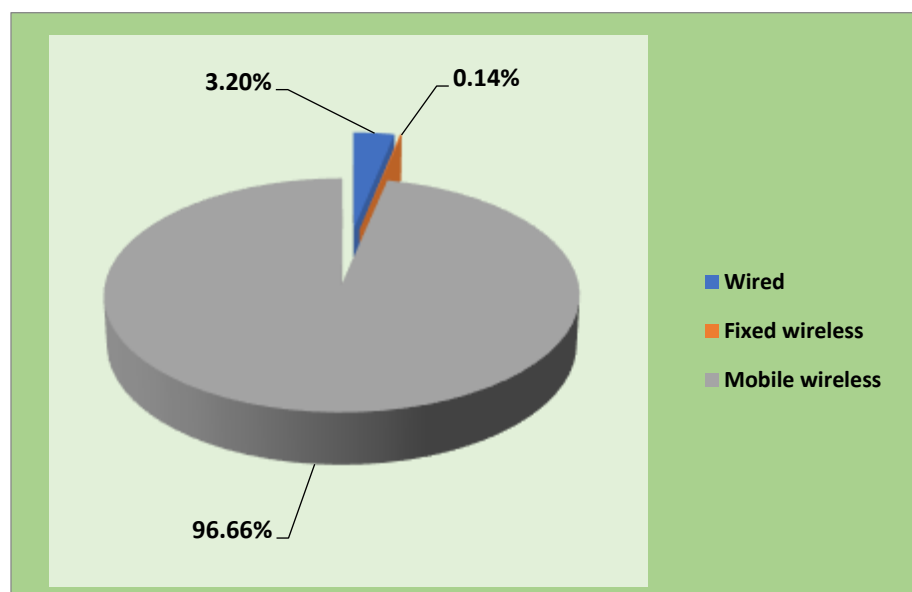
(Source-ITU)

**Table 1.23 : 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			
	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21
Broadband	22.29	26.43	0.65	1.13	724.46	764.52	725.12	765.65	747.41	792.08
Narrowband	3.24	0.14	0.004	0.01	44.52	37.06	44.53	37.07	47.77	37.21
<b>Total</b>	<b>25.54</b>	<b>26.58</b>	<b>0.66</b>	<b>1.14</b>	<b>768.99</b>	<b>801.58</b>	<b>769.64</b>	<b>802.72</b>	<b>795.18</b>	<b>829.30</b>

43. The following charts present the composition of Internet Subscribers by mode of access and composition of Broadband & Narrowband subscription.

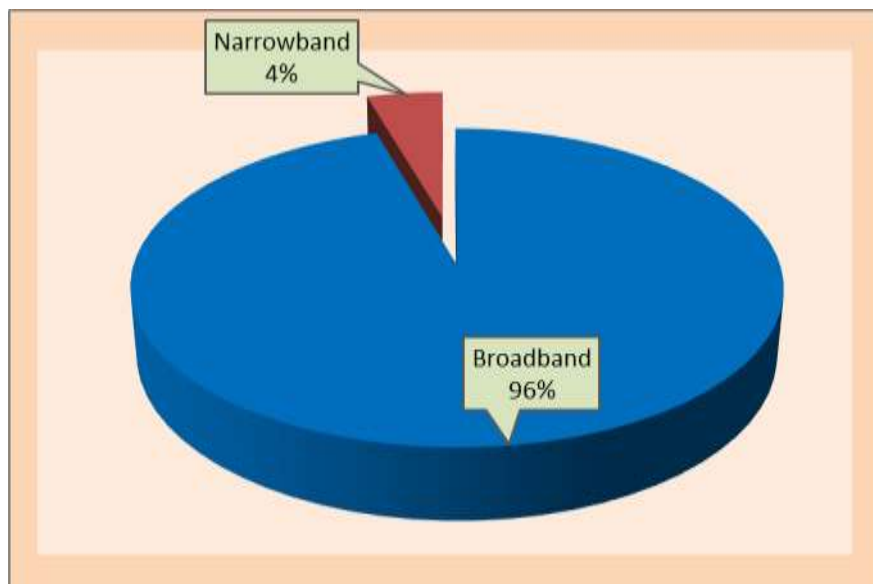
**Chart 1.12: Composition of Internet subscription as on 31<sup>st</sup> December, 2021**



44. More than 96% of total internet subscribers use wireless mobile technology to access internet services.
45. Out of total internet subscription, the share of broadband subscription is 95.51% and the share of narrowband subscription is only 4.49% as on 31<sup>st</sup> December, 2021. The following chart depicts

the composition of market share of broadband and narrowband subscriptions.

**Chart 1.13 : Composition of Broadband & Narrowband subscription as on 31<sup>st</sup> December, 2021**



46. Number of rural internet subscribers increased from 308.17 million at the end of Dec-20 to 333.10 million at the end of Dec-21 and the number of urban internet subscribers also increased from 487.01 million to 496.20 million during the same period.
47. Out of 792.09 million broadband subscribers, number of rural broadband subscribers is 314.83 million and number of urban broadband subscribers is 477.26 million.
48. Out of 37.21 million narrowband subscribers, number of rural narrowband subscribers is 18.27 million and number of urban narrowband subscribers is 18.94 million.
49. The service area wise urban/rural break up of internet subscribers (narrowband and broadband) as on 31<sup>st</sup> December, 2021 is as per the following table: -

**Table 1.24: Service Area wise Break up of Rural-Urban internet subscriber base (in millions)**

Telecom Service Area	Narrowband		Broadband		Total Internet	
	Rural	Urban	Rural	Urban	Rural	Urban
Andhra Pradesh	1.45	1.42	26.58	33.85	28.03	35.27
Assam	0.51	0.21	9.15	6.21	9.66	6.42
Bihar	2.34	0.71	34.35	20.84	36.69	21.56
Delhi	0.26	2.80	0.53	35.40	0.79	38.20
Gujarat	0.52	0.68	15.72	33.97	16.24	34.64
Haryana	0.40	0.85	7.70	12.20	8.10	13.04
Himachal Pradesh	0.11	0.09	3.95	2.28	4.06	2.37
Jammu & Kashmir	0.17	0.11	3.61	4.52	3.79	4.63
Karnataka	1.04	1.14	16.95	30.60	17.99	31.74
Kerala	0.54	0.51	13.92	16.15	14.46	16.66
Kolkata	0.05	0.67	1.21	16.11	1.26	16.77
Madhya Pradesh	1.27	0.89	22.28	32.06	23.54	32.96
Maharashtra	1.43	1.16	28.46	40.39	29.90	41.56
Mumbai	0.01	1.58	1.04	27.11	1.06	28.70
North East	0.17	0.12	4.51	4.17	4.68	4.29
Orissa	0.58	0.20	13.32	7.19	13.90	7.40
Punjab	0.35	0.47	8.78	17.99	9.13	18.46
Rajasthan	0.94	0.72	20.32	22.05	21.26	22.78
Tamil Nadu	0.89	1.49	14.85	39.81	15.74	41.30
Uttar Pradesh(East)	2.68	1.83	32.42	31.00	35.10	32.83
Uttar Pradesh(West)	1.08	0.87	16.31	24.73	17.39	25.59
West Bengal	1.49	0.42	18.85	18.62	20.34	19.04
<b>Total</b>	<b>18.27</b>	<b>18.94</b>	<b>314.83</b>	<b>477.26</b>	<b>333.10</b>	<b>496.20</b>
<b>Grand Total</b>	<b>37.21</b>		<b>792.09</b>		<b>829.30</b>	

**Table 1.25: State/UT wise Break up of Rural-Urban internet subscriber base (in millions)**

S.No.	State(s)	Narrowband		Broadband		Total (Dec 2021)	
		Rural	Urban	Rural	Urban	Rural	Urban
1	Andhra Pradesh	1.14	0.96	23.42	26.78	24.55	27.75
2	Arunachal Pradesh	0.02	0.01	2.51	2.39	2.53	2.41
3	Assam	0.51	0.21	9.15	6.21	9.66	6.42
4	Bihar	2.00	0.52	32.47	19.03	34.47	19.55
5	Chattisgarh	0.06	0.09	0.69	1.32	0.75	1.41
6	Goa	0.01	0.01	0.22	0.17	0.22	0.18
7	Gujarat	0.51	0.67	15.46	33.50	15.97	34.17
8	Haryana	0.40	0.85	7.70	12.20	8.10	13.04
9	Himachal Pradesh	0.11	0.09	3.95	2.28	4.06	2.37
10	Jharkhand	0.34	0.19	1.88	1.81	2.21	2.01
11	Karnataka	1.04	1.14	16.95	30.60	17.99	31.74
12	Kerala	0.54	0.46	13.88	16.15	14.42	16.61
13	Madhya Pradesh	1.20	0.80	21.59	30.74	22.79	31.54
14	Maharashtra incl. Mumbai	1.44	2.74	29.29	67.33	30.73	70.07
15	Manipur	0.03	0.02	0.54	0.47	0.57	0.49
16	Meghalaya	0.04	0.02	0.31	0.30	0.34	0.32
17	Mizoram	0.01	0.01	0.29	0.32	0.30	0.33
18	Nagaland	0.02	0.02	0.46	0.36	0.48	0.37
19	Odisha	0.58	0.20	13.32	7.19	13.90	7.40
20	Punjab	0.34	0.45	8.74	16.80	9.08	17.25
21	Rajasthan	0.94	0.72	20.32	22.05	21.26	22.78
22	Sikkim	0.01	0.02	0.32	0.33	0.33	0.35
23	Tamil Nadu incl. Chennai	0.88	1.47	14.58	39.27	15.46	40.73
24	Telangana	0.31	0.45	3.16	7.07	3.47	7.52
25	Tripura	0.05	0.04	0.40	0.33	0.45	0.37
26	Uttar Pradesh (UPE+UPW)	3.62	2.54	45.04	51.42	48.66	53.95
27	Uttarakhand	0.14	0.16	3.70	4.31	3.84	4.48
28	West Bengal incl. Kolkata	1.53	1.06	19.70	34.30	21.23	35.36
<b>Union Territories</b>							
1	Andaman & Nicobar Islands	0.00	0.00	0.04	0.10	0.04	0.11
2	Chandigarh	0.01	0.02	0.04	1.19	0.05	1.21
3	Dadar & Nagar Haweli (incl. Daman & Diu)	0.01	0.01	0.26	0.47	0.27	0.47
4	Delhi	0.26	2.80	0.53	35.40	0.79	38.20
5	Jammu & Kashmir	0.17	0.11	3.43	4.44	3.60	4.55
6	Ladakh	0.00	0.00	0.18	0.08	0.19	0.08
7	Lakshdweep	0.00	0.04	0.04	0.00	0.04	0.05
8	Puduchery	0.01	0.02	0.27	0.54	0.28	0.56
	<b>Total</b>	<b>18.27</b>	<b>18.94</b>	<b>314.83</b>	<b>477.26</b>	<b>333.10</b>	<b>496.20</b>
	<b>Grand Total</b>	<b>37.21</b>		<b>792.09</b>		<b>829.30</b>	

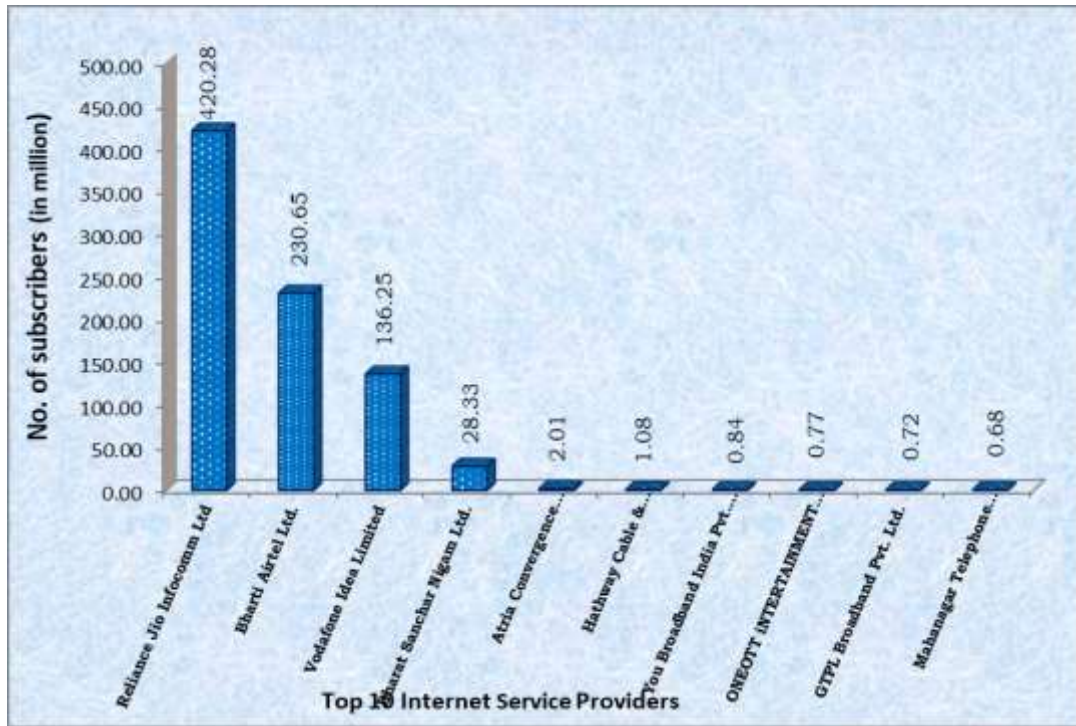
50. The following table depicts the number of internet subscribers of top ten service providers and their market share as on 31<sup>st</sup> December, 2021: -

**Table 1.26: Internet Subscriber Base and Market Share of top 10 Service Providers – Dec-21**

<b>S.No</b>	<b>ISP</b>	<b>No. of Subscribers (In million)</b>	<b>Share (%)</b>
1	Reliance Jio Infocomm Ltd	420.28	50.68%
2	Bharti Airtel Ltd.	230.65	27.81%
3	Vodafone Idea Limited	136.25	16.43%
4	Bharat Sanchar Nigam Ltd.	28.33	3.42%
5	Atria Convergence Technologies Pvt. Ltd.	2.01	0.24%
6	Hathway Cable & Datacom Pvt. Ltd.	1.08	0.13%
7	You Broadband India Pvt. Ltd.	0.84	0.10%
8	ONEOTT iNTERENTAINMENT LTD (Planet E-Shop Holdings India Ltd.)	0.77	0.09%
9	GTPL Broadband Pvt. Ltd.	0.72	0.09%
10	Mahanagar Telephone Nigam Ltd.	0.68	0.08%
<b>Total of Top 10 ISPs</b>		<b>821.61</b>	<b>99.07</b>
<b>Others</b>		<b>7.69</b>	<b>0.93</b>
<b>Grand Total</b>		<b>829.30</b>	<b>100</b>

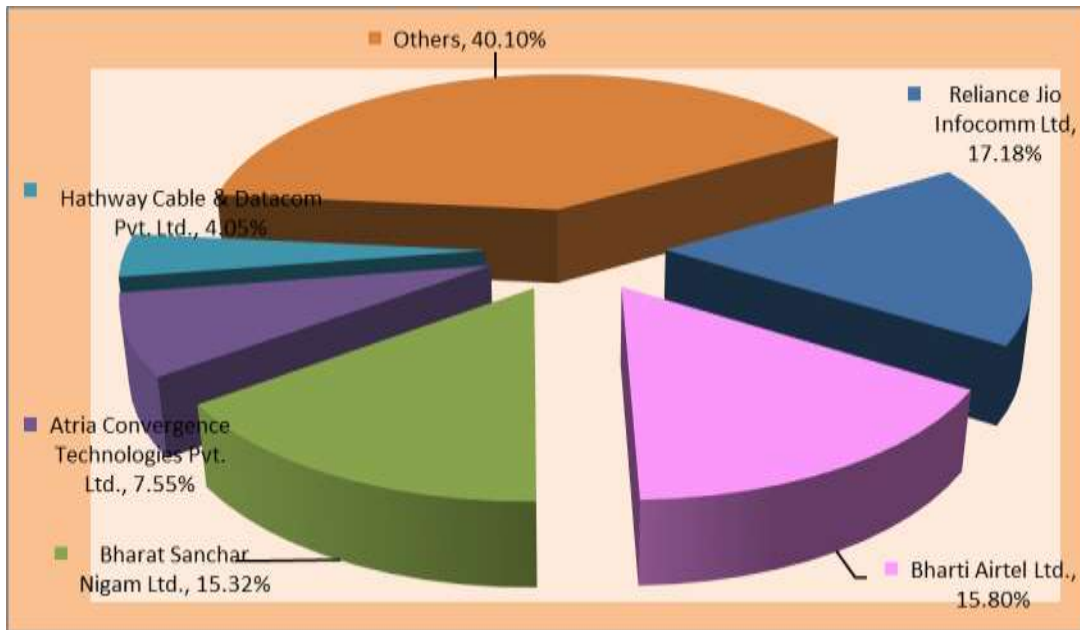
51. M/s Reliance Jio Infocomm Ltd holds the top position with 50.68% market share of total internet subscribers followed by Bharti Airtel Ltd. with 27.81%. Top 10 Service Providers together hold 99.07% share of total internet subscriber base at the end of Dec-21.
52. Detailed table of number of subscriber base (Broadband & Narrowband subscribers) of all the service providers is available at **Annexure-1.5.**

**Chart 1.14 : Subscriber base of top ten Service Providers**



53. Out of total 26.58 million wired internet subscribers, Reliance Jio Infocomm Ltd holds 17.18% market share with 4.57 million subscribers, followed by Bharti with 4.20 million subscribers.

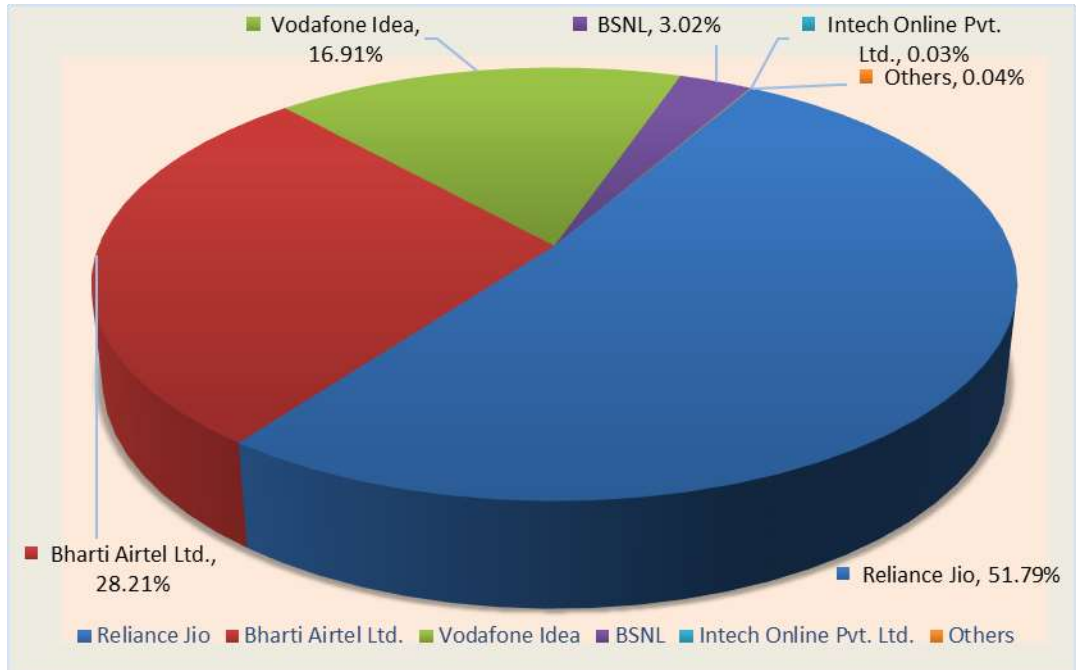
**Chart 1.15 : Composition of Wired Internet subscribers as on 31<sup>st</sup> December, 2021**





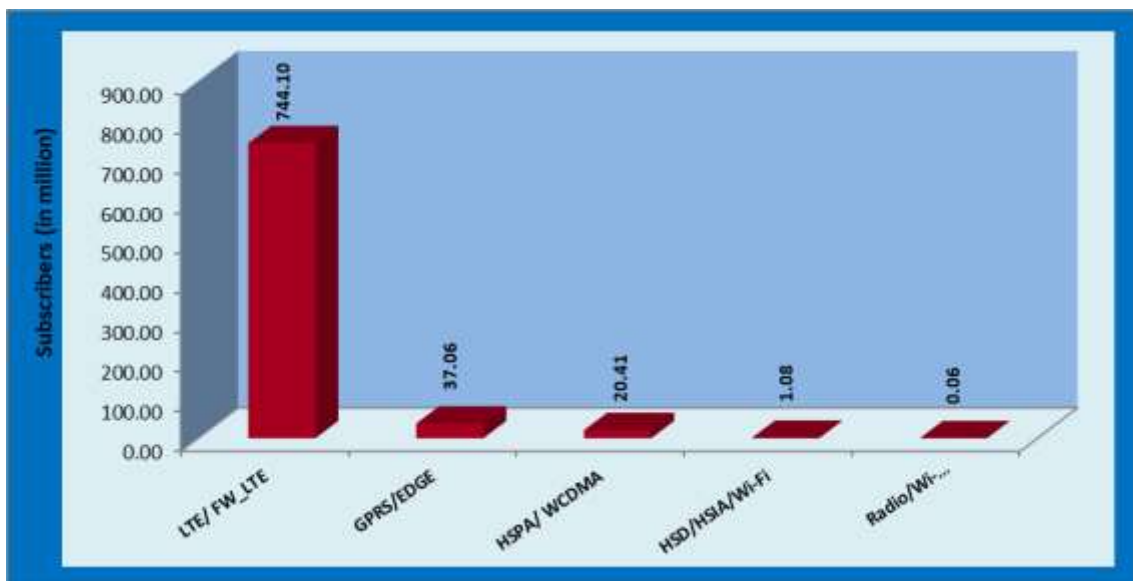
54. In wireless internet segment, Reliance Jio holds 51.79% market share with 415.72 million subscribers followed by Bharti Airtel Ltd. with 28.21% of 226.45 million wireless internet subscribers at the end of Dec-21.

**Chart 1.16 : Composition of Wireless Internet subscription**



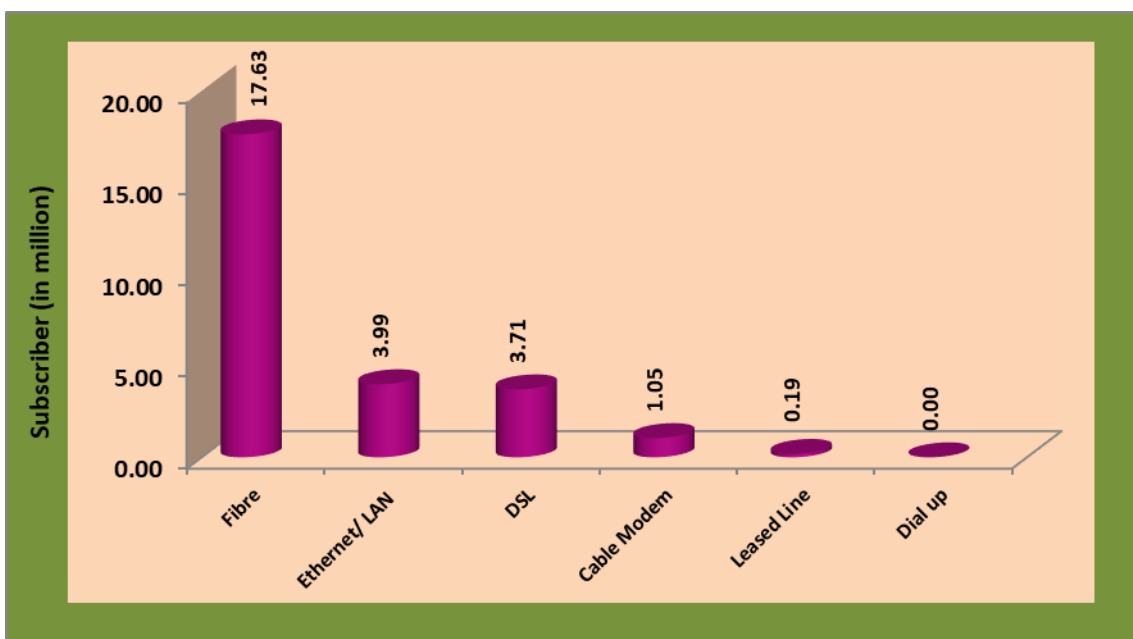
55. The following chart depicts the technology-wise distribution of wireless internet subscriptions.

**Chart 1.17 : Technology\*\* trend for Wireless Internet Access– Dec-21**



56. The following chart depicts the technology-wise distribution of wired internet subscriptions.

**Chart 1.18 : Technology†† trend for Wired Internet Access – Dec-21**



\*\* Long Term Evolution (LTE), Fixed Wireless Long Term Evolution (FW\_LTE), General packet Radio Service (GPRS), Enhanced Data for GSM (Global system for mobile communications) Evolution (EDGE), High Speed Packet Access (HSPA), Wideband Code Division Multiple Access (WCDMA), High Speed Data (HSD), High Speed Internet Access (HSIA), Wireless Fidelity (Wi-Fi), Worldwide Interoperability for Microwave Access (Wi-Max), Very Small Aperture Terminal (VSAT)

†† DSL – Digital Subscriber Line, LAN – Local Area Network

57. Number of internet subscribers per 100 populations (internet tele-density) increased from 58.51 as on 31<sup>st</sup> December, 2020 to 60.46 as on 31<sup>st</sup> December, 2021. Rural internet tele-density increased from 34.60 to 37.25 and urban internet tele-density decreased from 103.98 to 103.95 from Dec-20 to Dec-21.

**Table 1.27 : Subscriber Base & Tele-density - Rural & Urban**

Year ending	Internet Subscribers (million)			Internet tele-density (%)		
	Rural	Urban	Total	Rural	Urban	Overall
2017	132.03	313.92	445.96	14.89	76.76	34.42
2018	213.30	390.91	604.21	23.87	93.86	46.13
2019	268.43	450.31	718.74	29.83	106.22	54.29
2020	308.17	487.01	795.18	34.60	103.98	58.51
2021	333.10	496.20	829.30	37.25	103.95	60.46
<b>Growth in 2021 over 2020</b>	<b>8.09%</b>	<b>1.89%</b>	<b>4.29%</b>	<b>7.66%</b>	<b>-0.03%</b>	<b>3.33%</b>

**Table 1.28: Service Area wise number of Internet Subscribers per 100 population at the end of Dec-21**

Service Area	Internet Subscribers (in million)			Internet subscribers per 100 population		
	Rural	Urban	Total	Rural	Urban	Total
Andhra Pradesh	28.03	35.27	63.29	51.84	95.95	69.69
Assam	9.66	6.42	16.08	32.33	117.91	45.52
Bihar	36.69	21.56	58.24	26.54	85.25	35.62
Delhi	0.79	38.20	38.99	-	-	186.58
Gujarat	16.24	34.64	50.88	44.15	99.34	71.01
Haryana	8.10	13.04	21.14	46.43	105.75	70.99
Himachal Pradesh	4.06	2.37	6.43	60.90	310.55	86.56
Jammu & Kashmir	3.79	4.63	8.42	39.39	111.02	61.04
Karnataka	17.99	31.74	49.73	47.68	107.73	74.01
Kerala	14.46	16.66	31.12	149.42	64.07	87.22
Madhya Pradesh	23.54	32.96	56.50	28.52	101.07	49.07
Maharashtra	29.90	41.56	71.45	47.43	114.14	79.81
Mumbai	1.06	28.70	29.75			
North East	4.68	4.29	8.97	45.48	81.00	57.56

Orissa	13.90	7.40	21.30	38.73	89.79	48.25
Punjab	9.13	18.46	27.59	51.08	133.34	86.98
Rajasthan	21.26	22.78	44.04	36.13	107.64	55.04
Tamil Nadu	15.74	41.30	57.03	43.29	98.70	72.94
UP (East)	35.10	32.83	67.94	28.41	97.98	45.39
UP (West)	17.39	25.59	42.99			
Kolkata	1.26	16.77	18.03	34.10	98.77	57.64
West Bengal	20.34	19.04	39.38			
<b>Total</b>	<b>333.10</b>	<b>496.20</b>	<b>829.30</b>	<b>37.25</b>	<b>103.95</b>	<b>60.46</b>

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

**Notes:**

1. No. of total internet subscribers per 100 population is derived from the subscriber data provided by the operators and the projection of population.
2. With effect from 1<sup>st</sup> January, 2020, the projection of population is based on 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)
3. The bifurcation of rural and urban subscriber data provided by the operators is based on different sources. E.g. one operator is deriving information from <https://censusindia.gov.in/census.website/> while others are procuring the data from concerned authorities/third party.
4. 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 1.28: State/UT wise number of Internet Subscribers per 100 population at the end of Dec-21**

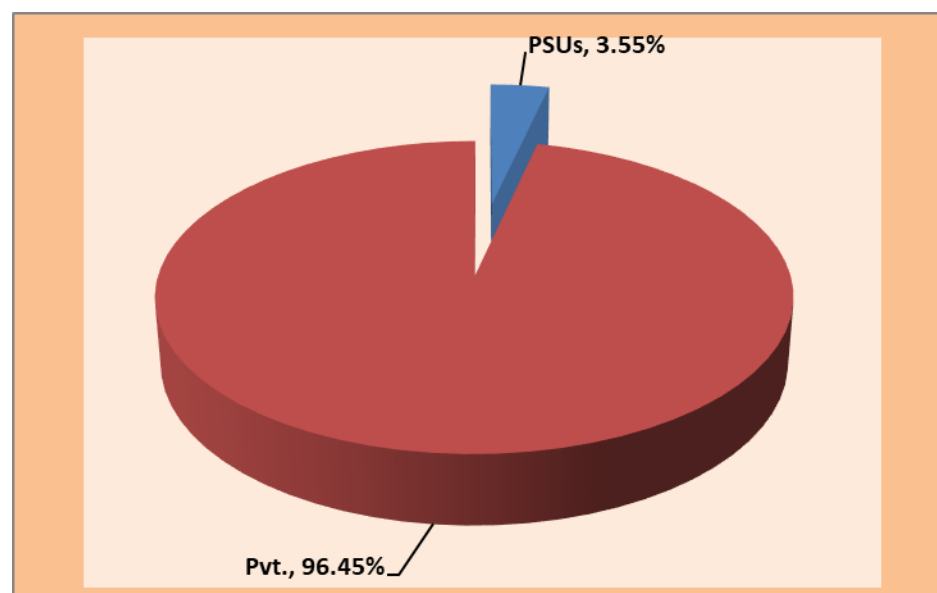
S.N.	State(s)	Total Subscribers (In million)			Tele-density (%)		
		Rural	Urban	Total	Rural	Urban	Total
1	Andhra Pradesh	24.55	27.75	52.30	72.21	146.52	98.79
2	Arunachal Pradesh	2.53	2.41	4.94	219.37	614.03	319.43
3	Assam	9.66	6.42	16.08	32.33	117.91	45.52
4	Bihar	34.47	19.55	54.02	31.50	128.73	43.35
5	Chattisgarh	0.75	1.41	2.17	3.45	17.76	7.28
6	Goa	0.22	0.18	0.40	56.37	15.37	25.80
7	Gujarat	15.97	34.17	50.14	43.70	100.64	71.12
8	Haryana	8.10	13.04	21.14	46.43	105.75	70.99
9	Himachal Pradesh	4.06	2.37	6.43	60.90	310.55	86.56
10	Jharkhand	2.21	2.01	4.22	7.69	19.86	10.85
11	Karnataka	17.99	31.74	49.73	47.68	107.73	74.01
12	Kerala	14.42	16.61	31.03	149.03	64.05	87.14
13	Madhya Pradesh	22.79	31.54	54.33	37.53	127.99	63.64
14	Maharashtra	30.73	70.07	100.80	47.37	116.04	80.48
15	Manipur	0.57	0.49	1.06	26.23	47.89	33.19
16	Meghalaya	0.34	0.32	0.66	13.09	46.89	20.05
17	Mizoram	0.30	0.33	0.64	54.96	49.73	52.10

18	Nagaland	0.48	0.37	0.86	39.26	38.27	38.83
19	Odisha	13.90	7.40	21.30	38.73	89.79	48.25
20	Punjab	9.08	17.25	26.33	50.80	136.62	86.33
21	Rajasthan	21.26	22.78	44.04	36.13	107.64	55.04
22	Sikkim	0.33	0.35	0.68	91.11	109.88	99.87
23	Tamil Nadu incl. Chennai	15.46	40.73	56.19	43.10	100.04	73.37
24	Telangana	3.47	7.52	10.99	17.31	42.20	29.02
25	Tripura	0.45	0.37	0.81	17.47	23.75	19.85
26	Uttar Pradesh (UPE+UPW)	48.66	53.95	102.61	27.44	97.09	44.06
27	Uttarakhand	3.84	4.48	8.31	51.59	110.12	72.28
28	West Bengal incl. Kolkata	21.23	35.36	56.59	33.83	98.86	57.43
<b>Union Territories</b>							
1	Andaman & Nicobar Islands	0.04	0.11	0.14	17.08	60.41	35.91
2	Chandigarh	0.05	1.21	1.26	-	-	103.36
3	Dadar & Nagar Haweli (incl. Daman & Diu)	0.27	0.47	0.74	115.25	51.37	64.16
4	Delhi	0.79	38.20	38.99	-	-	186.58
5	Jammu & Kashmir	3.60	4.55	8.15	38.28	111.58	60.45
6	Ladakh	0.19	0.08	0.26	89.45	85.30	88.20
7	Lakshdweep	0.04	0.05	0.09	-	-	128.03
8	Puduchery	0.28	0.56	0.84	57.56	50.16	52.37
<b>Total</b>		<b>333.10</b>	<b>496.20</b>	<b>829.30</b>	<b>37.25</b>	<b>103.95</b>	<b>60.46</b>

58. Top five service areas in terms of internet subscriptions (wired+ wireless) as on 31<sup>st</sup> December, 2021 are Maharashtra 71.45 million, U.P.(East) 67.94 million, Andhra Pradesh 63.29 million, Bihar 58.24 million and Tamil Nadu including Chennai 57.03 million.
59. Top five service areas in terms of internet subscribers per 100 population (internet tele-density) are Delhi 186.58, Kerala 87.33, Punjab 86.98, Himachal Pradesh 86.56, and Maharashtra 79.81. Bihar service area has the lowest number of internet subscribers 35.62 per 100 population.
60. Kerala service area has the highest Rural internet tele-density 149.42% among all service areas. The average rural internet tele-density in India is 37.25%, as on 31<sup>st</sup> December, 2021.

61. Share of private internet service providers in respect of subscriber base, increased from 95.74% at the end of 2020 to 96.45% at the end of Dec, 2021. The following charts present the composition of market share of PSUs and Private Internet service providers as on Dec-21.

**Chart 1.2 : Market share of PSUs and Private Internet Service Providers**



### **ISP Connectivity**

62. The International Internet bandwidth owned by various service providers is reported to be 26,391 Gbps at the year ending Dec-21 as compared to 20,811 Gbps at the year ending Dec-20.

### **Internet Telephony<sup>##</sup>**

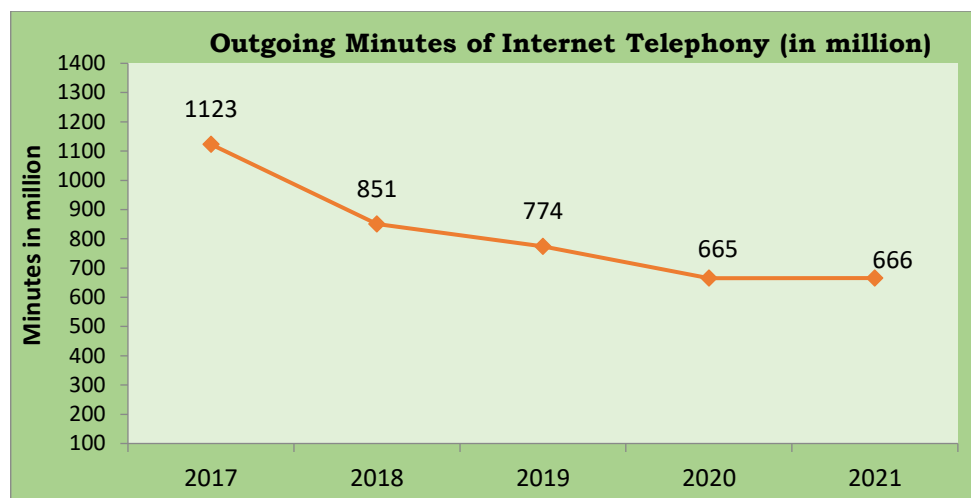
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<sup>##</sup> Internet Telephony : Internet telephony is used as a generic term for the conveyance of voice, fax and related services, partially or wholly over packet-based, IP-based networks.

(Source-ITU)

63. As per the reports received from 13 service providers, providing Internet Telephony services, the total outgoing minutes of usage (MoU) for internet telephony is 666.45 million during the year 2021 as compare to 665.21 million during the year 2020. List of Internet Telephony Service providers is available at **Annexure-1.7**.

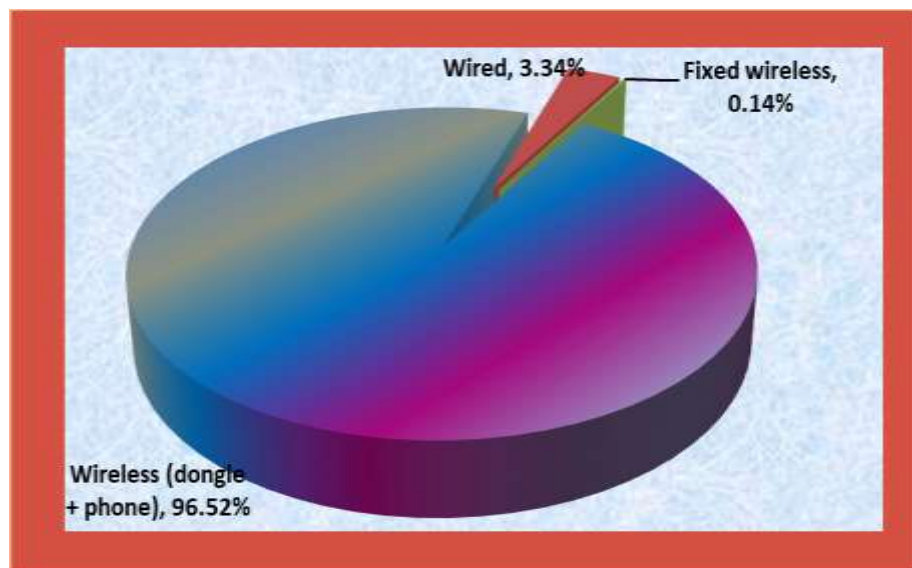
**Chart 1.20 : Trends in MOU for Internet Telephony**



**Part-II : Broadband Service (Download Speed  $\geq$ 512 Kbps)**

64. The total number of broadband subscribers increased from 747.41 million at the end of Dec-20 to 792.09 million at the end of Dec-21 with yearly growth rate of 5.98%. Out of total number of broadband subscribers, number of wired broadband subscribers are 26.43 million and number of wireless broadband subscribers are 765.65 million at the end of Dec-21.
65. Top five broadband (wired+wireless) service providers in term of subscribers as on 31<sup>st</sup> December, 2021 are Reliance Jio 420.28 million, Bharti Airtel 210.07 million, Vodafone Idea Ltd 122.62 million, BSNL 25.54 million and Atria Convergence Technologies Pvt. Ltd. 2.01 million.

66. In wired broadband segment, Reliance Jio Infocomm Ltd. holds 17.27% market share with 4.57 million subscribers followed by Bharti Airtel Ltd. with 4.20 million subscribers at the end Dec-21.
67. In wireless broadband segment, Reliance Jio holds 54.30% market share with 415.72 million subscribers followed by Bharti Airtel Ltd 26.89% market share with 205.87 million subscribers at the end Dec-2021.
68. Top five service areas in respect of broadband subscriptions at the end Dec-21 are Maharashtra 68.85 million, U.P.-East 63.43 million, Andhra Pradesh including Telengana 60.43 million, Bihar 55.19 million and Tamil Nadu 54.65 million subscribers.
69. The following chart depicts the composition of technology wise broadband subscriptions as on 31<sup>st</sup> December, 2021. Chart 1.21 : Composition of Broadband subscription – Technology wise



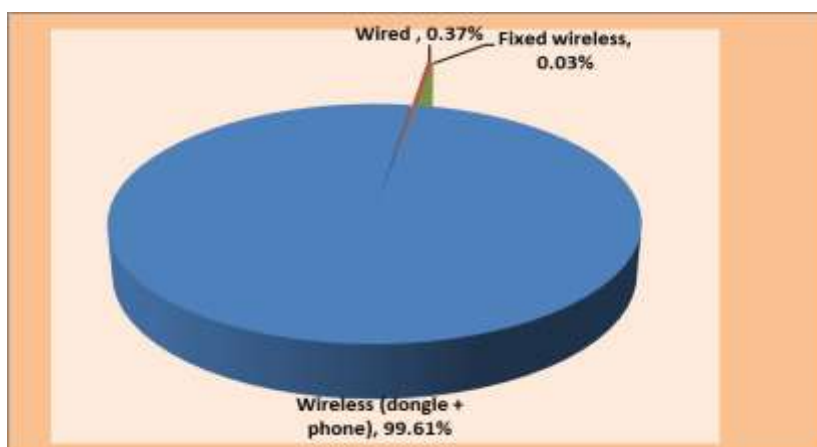
70. Mobile Device (dongle+phone) is the most popular mode of broadband access and it constitutes 96.52% of total broadband subscribers at the end of Dec-21. On the other hand, share of wired internet subscribers is only 3.34% during the same period.



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

71. Total number of narrowband subscribers declined from 47.77 million at the end of Dec-20 to 37.21 million at the end of Dec-21 with the yearly decline rate of 22.11%. Out of 37.21 million narrowband subscribers, number of Wired Narrowband subscribers are 0.14 million and number of Wireless Narrowband subscribers are 37.07 million at the end of Dec-21.
72. The top five narrowband (wired + wireless) service providers in term of subscriber base are Bharti Airtel 20.59 million, Vodafone Idea Ltd 13.63 million, BSNL 2.79 million, Airnet Cable & Datacom Private Limited 0.09 million and MTNL 0.06 million, at the end of Dec-21.
73. In wired narrowband segment, Airnet Cable & Datacom Pvt. Limited hold 63.21% market share with 0.086 million subscribers followed by You Broadband India Pvt Ltd with 0.014 million subscribers at the end of Dec-21.
74. In wireless narrowband segment, Bharti Airtel holds 55.55% market share with 20.59 million subscribers followed by Vodafone Idea Ltd with 13.63 million subscribers, at the end of Dec-21.
75. The following chart depicts the composition of technology wise narrowband subscription as on 31<sup>st</sup> December, 2021.

**Chart 1.22 : Composition of Narrowband subscription – Technology wise**



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

### Public Mobile Radio Trunk Services (PMRTS)

76. The subscriber base of Public Mobile Radio Trunk Service (PMRTS) increased from 63,205 at the end of Dec-20 to 63,417 at the end of Dec-21 with yearly growth rate of 0.34%.

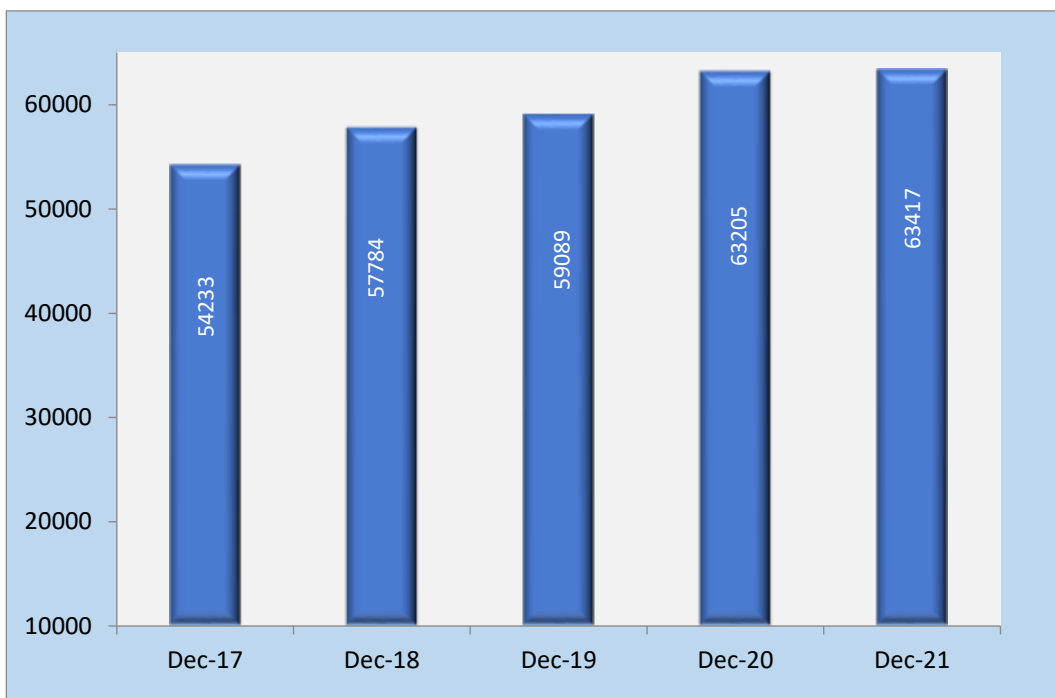
**Table 1.28 : PMRTS Subscriber base - Service Provider wise**

Sl. No.	Name of the Service Provider	Subscriber Base as on 31.12.2020	Subscriber Base as on 31.12.2021	Net Addition in Subscribers	% Market share as on 31.12.2021
1	Arya Omnitalk Radio Trunking Services Pvt. Ltd.	52,516	52294	-222	82.46
2	Procall Ltd.	3,369	3475	106	5.48
3	Inative Networks Pvt Ltd	1,820	1820	0	2.87
4	Quick Call	2,029	2026	-3	3.19
5	Smartalk Pvt Ltd	1,486	1578	92	2.49
6	Bhilwara Telenet Services Pvt Ltd	864	872	8	1.38
7	Wiwonet Solutions Pvt Ltd	690	857	167	1.35
8	Airtalk Solutions & Services Pvt Ltd	431	495	64	0.78
	<b>Total</b>	<b>63,205</b>	<b>63417</b>	<b>212</b>	<b>100</b>

77. M/s Arya Omnitalk Radio Trunking Services Pvt. Ltd. is the market leader in PMRTS with 82.46% share of total subscription as on 31<sup>st</sup> Dec-21. Detailed table on Service Area wise subscriber base of PMRTS is available at **Annexure-1.6**.

78. The following chart depicts the trend of number of PMRTS subscribers during last five years.

**Chart 1.23 : Trend of number of PMRTS subscribers**



**Very Small Aperture Terminal (VSAT)**

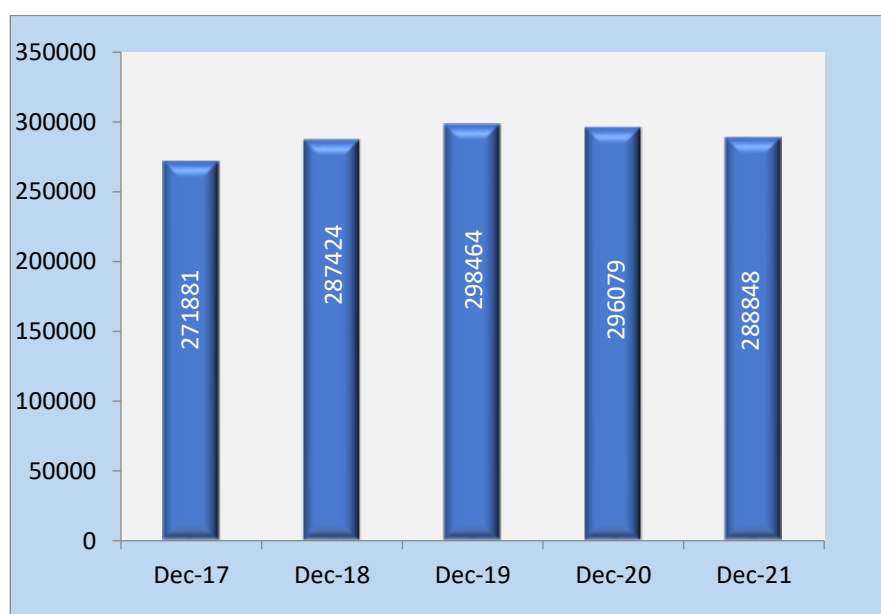
79. The total number of Very Small Aperture Terminal (VSAT) subscribers decreased from 2,96,079 at the end of Dec-20 to 2,88,848 at the end of Dec-21. Net loss in VSAT subscribers during the year 2021 has been 7,231 at the yearly decline rate of 2.44%.
80. Hughes Communication Limited continues to be the market leader with subscriber base of 1,35,374 followed by Nelco Ltd with subscriber base of 76,166 at the end of Dec-21.

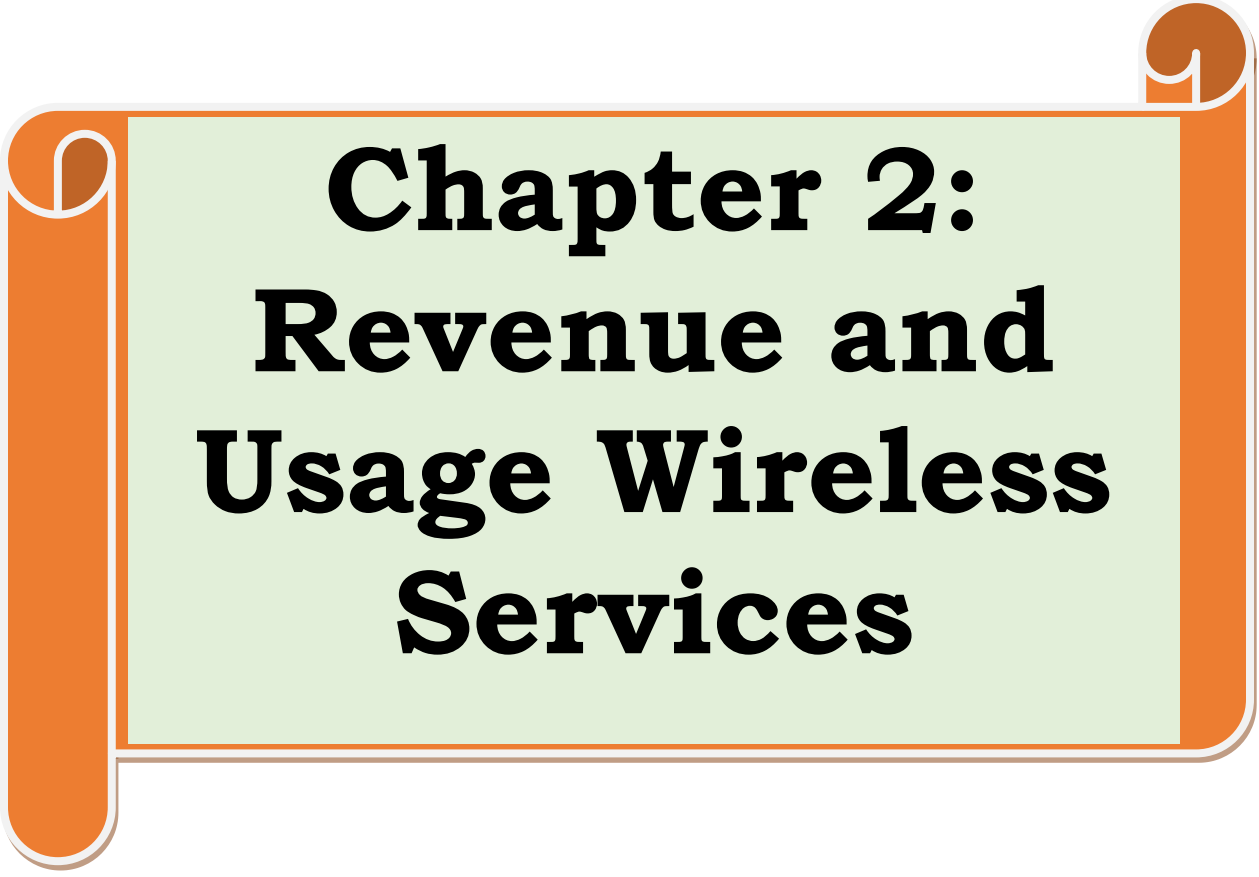
**Table 1.29 : VSAT Service Providers currently providing service & their subscriber base**

Sr. No	Name of Service Providers	Subscriber base at the Quarter ending		Net Addition during the year 2021	Market Share (%) Dec-21
		Dec-20	Dec-21		
1	Hughes Communications Ltd.	1,25,371	1,35,374	10,003	7.98
2	Nelco Ltd.	75,743	76,166	423	0.56
3	Bharti Airtel Limited	75,978	60,211	-15,767	-20.75
4	HCL Comnet	8,036	7,784	-252	-3.14
5	BSNL	8,322	6,709	-1,613	-19.38
6	Infotel Satcom	2,579	2,554	-25	-0.97
7	Cloudcast Digital (earthwile Planetcast Media Services)	50	50	0	0.00
	<b>Total</b>	<b>2,96,079</b>	<b>2,88,848</b>	<b>-7,231</b>	<b>-2.44</b>

81. M/s Hughes Communications Ltd. has recorded maximum net addition of 10,003 subscribers followed by M/s Nelco Ltd. 423 subscribers during the year 2021.

**Chart 1.24 : Trend of Number of VSAT Subscribers**





# **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 the section A & B covers the licensees, who have been providing service during the entire period from 1<sup>st</sup> January, 2021 to 31<sup>st</sup> December, 2021 in the various service areas.

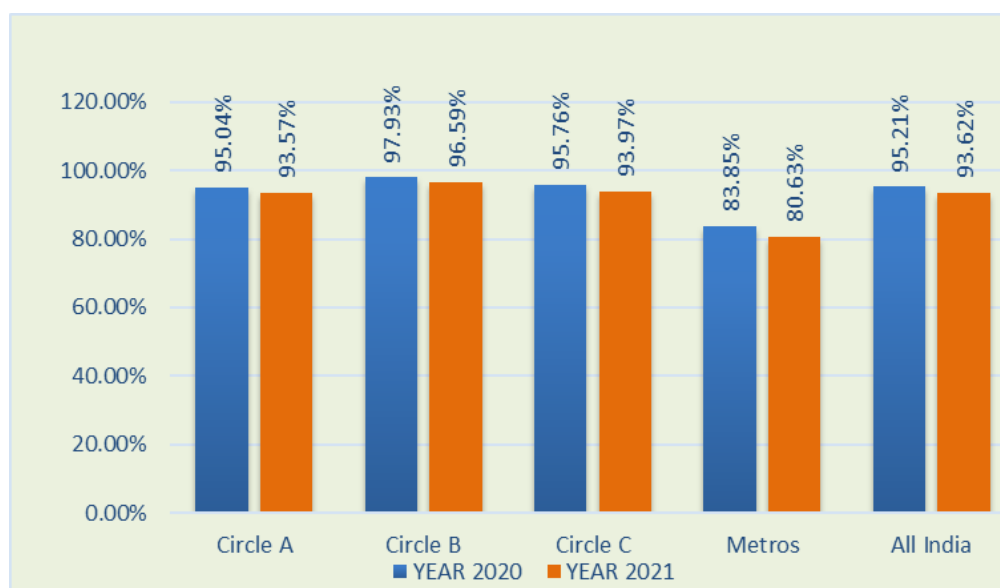
- The following table presents a Key Indicators of Wireless Revenue and Usage for the year 2021 compared to the previous year 2020 and yearly growth.

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

Parameter	Year 2020	Year 2021	Yearly Changes (%)
Share of prepaid subscribers	95.21%	93.62%	-1.67
Incoming MOUs per subscriber per month	380	417	9.74
Outgoing MOUs per subscriber per month	379	417	10.01
Total MOUs per subscriber per month	759	834	9.88
No. of outgoing SMS per subscriber per month	16	15	-6.17
Average Revenue per user (ARPU) per month (Rs.)	94.87	108.40	14.25

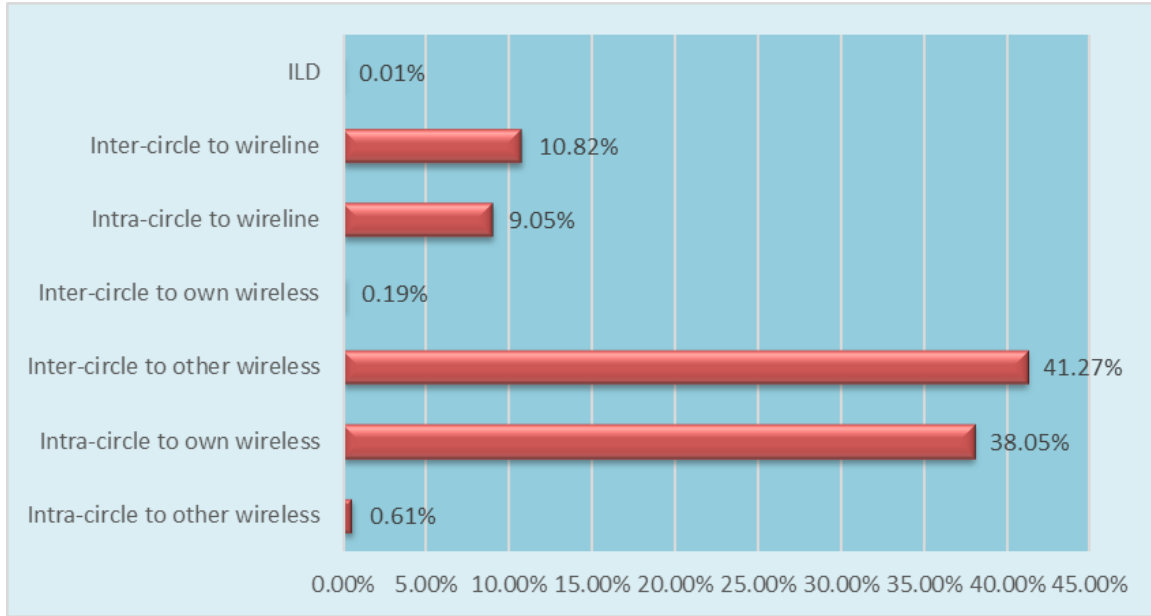
- Share of prepaid wireless subscriber over total wireless subscribers decreased from 95.21% at the end of 2020 to 93.62% at the end of 2021. The following chart depicts Category-wise share (%) of wireless prepaid subscribers at the end of the year 2020 and 2021.

**Chart 2.1: % Share of Prepaid Subscribers over total wireless subscribers**



3. The following chart depicts % break-up of outgoing minutes from Home Service Area to inter-circles and intra-circles for wireless service: -

**Chart 2.2: % break-up of outgoing minutes from Home Service Area (HSA) during the year 2021**



**A. Average Revenue Per User**

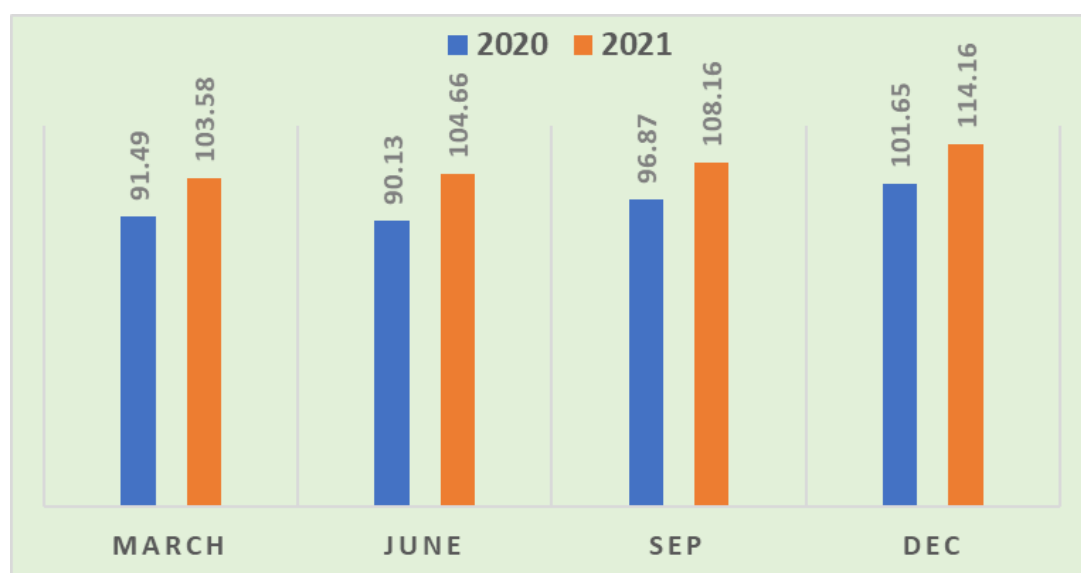
4. Average Revenue Per User (ARPU) per month for wireless service increased from Rs.94.87 during the year 2020 to Rs.108.40 during the year 2021, thereby showing a yearly growth rate of 14.25%.
5. The following table presents the ARPU per month for various categories of circles and various platforms for payment viz. post-paid and pre-paid.

**Table 2.2 : Average Revenue Per User (ARPU) per month (Rs.)**

Category	Postpaid		Prepaid		Blended	
	2020	2021	2020	2021	2020	2021
Circle A	264.11	232.74	99.82	116.53	107.87	123.65
Circle B	237.07	172.23	86.06	97.88	89.11	100.24
Circle C	182.20	166.23	86.35	102.63	90.37	106.28
Metro	199.80	172.18	58.31	74.58	80.55	92.59
<b>All India</b>	<b>226.83</b>	<b>192.22</b>	<b>88.37</b>	<b>103.00</b>	<b>94.87</b>	<b>108.40</b>

6. Average Revenue Per User (ARPU) per month for postpaid service declined from Rs.226.83 during the year 2020 to Rs.192.22 during the year 2021. ARPU per month for prepaid service increased from Rs.88.37 during the year 2020 to Rs.103 during the year 2021.
7. The following chart presents the Quarterly trend for ARPU per month during the year 2020 and 2021.

**Chart 2.3: Quarterly Trend of ARPU (Rs.) per month of Wireless Service**





**Table 2.3 : Composition of Average Revenue Per User (ARPU)  
per month (Rs.)**

<b>Sl. No.</b>	<b>Item</b>	<b>Revenue (excl. service tax) per subscriber per month for the Year 2020</b>	<b>Revenue (excl. service tax) per subscriber per month for the Year 2021</b>
1	Rental Revenue	0.95	0.65
2	Revenue from calls	17.72	15.20
3	Revenue from SMS	0.59	0.21
4	Revenue from data usage	81.81	96.71
5	Revenue from VAS	1.46	1.40
6	Other revenue	3.47	2.30
7	Revenue from Outroamers (outside HSA)	0.68	0.57
8	<b>Total revenue from subscribers (1+2+3+4+5+6+7)</b>	<b>106.68</b>	<b>117.05</b>
9	Net inter-operable settlement charges receivable <sup>§§</sup>	-11.80	-8.65
10	<b>Net Revenue (ARPU) (8+9)</b>	<b>94.87</b>	<b>108.40</b>

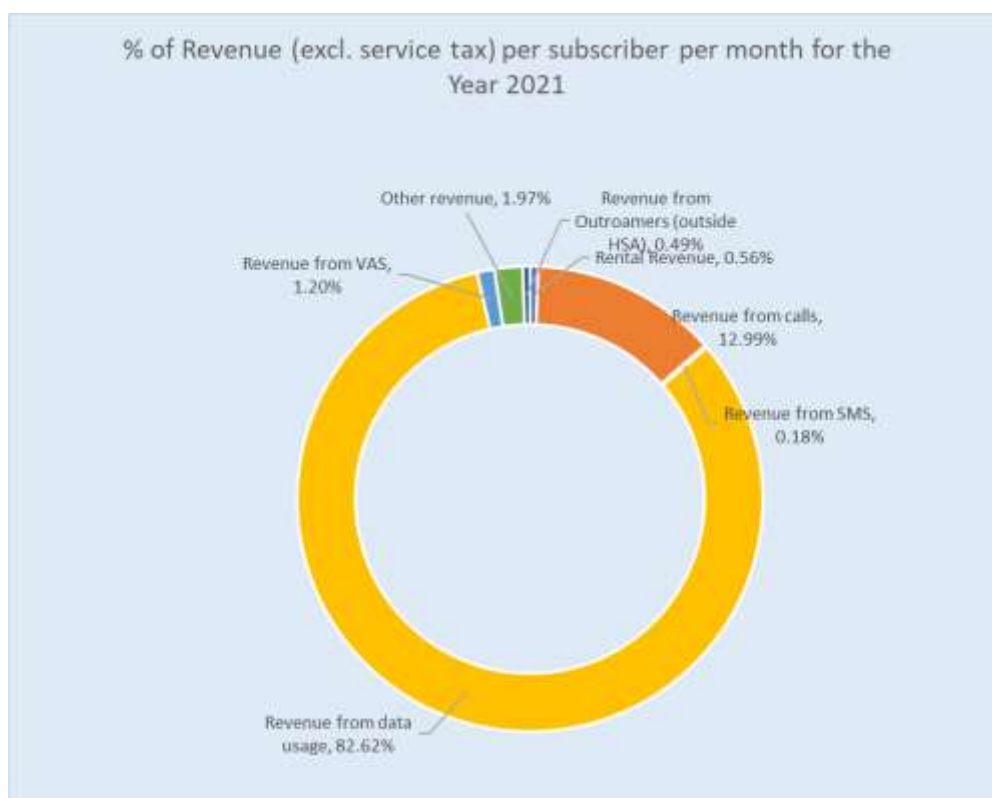
8. As can be seen in the above table, composition of ARPU increased only in revenue from data usage in the year 2021 as compared to the year 2020.
9. The following chart presents the comparison of share of Revenue as a percentage of total Revenue during the year 2021.

§§ \* includes Interconnect Usages Charges and roaming settlement charges

# Starting from QE March-20 the TSPs started bifurcating rental revenue amongst revenue from calls and data usage

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 Average Revenue Per User (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.

**Chart 2.4: Composition of Revenue of wireless Service during the year 2021**



10. It may be seen in the above chart that revenue from data usage comprises about 82.62% of total revenue from wireless services during the year 2021.

**B. Usage Pattern**

11. Average Minutes of Usage (MOUs) per subscriber per month increased from 759 during the year 2020 to 834 during the year 2020 with yearly growth rate of 9.88%.

12. The following table presents the Minutes of Usage per subscriber per month for various categories of circles and various platforms for payment viz. post-paid and pre-paid.

**Table 2.4: - Category-wise Minutes of Usages (MOUs) per subscriber per month**

Segment	MOUs	Year	Circle A	Circle B	Circle C	Metros	All India
Postpaid	Outgoing MOU	2020	348.80	338.54	387.94	287.67	332.02
		2021	301.64	307.44	400.39	240.64	299.36
	Incoming MOU	2020	309.96	314.14	394.20	231.07	295.93
		2021	272.68	284.06	354.75	194.46	264.10
	<b>Total MOU</b>	<b>2020</b>	<b>658.75</b>	<b>652.67</b>	<b>782.14</b>	<b>518.75</b>	<b>627.95</b>
<b>2021</b>		<b>574.33</b>	<b>591.50</b>	<b>755.14</b>	<b>435.10</b>	<b>563.46</b>	
Prepaid	Outgoing MOU	2020	346.59	372.57	443.02	445.51	380.95
		2021	386.41	412.87	507.33	480.77	424.10
	Incoming MOU	2020	337.44	384.20	476.17	406.69	384.36
		2021	375.40	423.61	542.12	442.69	427.08
	<b>Total MOU</b>	<b>2020</b>	<b>684.03</b>	<b>756.77</b>	<b>919.19</b>	<b>852.19</b>	<b>765.31</b>
<b>2021</b>		<b>761.80</b>	<b>836.48</b>	<b>1049.45</b>	<b>923.46</b>	<b>851.18</b>	
Blended	Outgoing MOU	2020	346.70	371.88	440.71	420.70	378.65
		2021	381.21	409.53	501.19	436.46	416.57
	Incoming MOU	2020	336.10	382.79	472.74	379.08	380.21
		2021	369.10	419.18	531.37	396.89	417.23
	<b>Total MOU</b>	<b>2020</b>	<b>682.79</b>	<b>754.67</b>	<b>913.46</b>	<b>799.78</b>	<b>758.86</b>
<b>2021</b>		<b>750.32</b>	<b>828.71</b>	<b>1032.56</b>	<b>833.35</b>	<b>833.80</b>	

13. Minutes of Usage (MOUs) per subscriber per month for postpaid services declined from 628 during the year 2020 to 563 during the year 2021 however, MoUs for prepaid services increased from 765 to 851 during the same period.

14. Outgoing MoUs per subscriber per month increased from 379 during the year 2020 to 417 during the year 2021 and Incoming MoUs per subscriber per month also increased from 380 to 417 during the same period.

**Table 2.5: Category-wise average number of outgoing SMS per subscriber per month**

Category	Postpaid		Prepaid		Blended	
	2020		2020		2020	
Circle A	43	41	16	14	18	16
Circle B	42	31	13	12	14	13
Circle C	23	17	18	18	18	17
Metros	27	36	12	12	15	16
<b>All India</b>	<b>35</b>	<b>34</b>	<b>15</b>	<b>14</b>	<b>16</b>	<b>15</b>

15. Average number of outgoing SMS per subscriber per month decreased from 16 during the year 2020 to 15 during the year 2021.
16. The following table presents the percentage break-up of outgoing minutes of usage from home service area to various categories of termination networks.

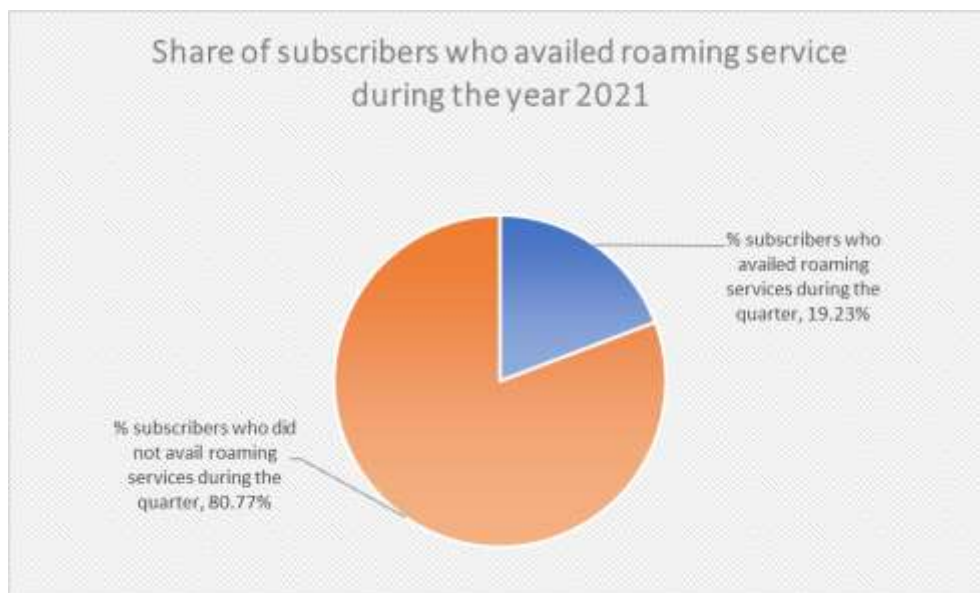
**Table 2.6: Category-wise % break-up of outgoing minutes from Home Service Areas (HSA) for wireless service during the year 2021**

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	0.70%	39.81%	45.61%	0.17%	6.20%	7.49%	0.02%
Circle B	0.58%	37.44%	42.20%	0.17%	8.72%	10.88%	0.01%
Circle C	0.36%	41.50%	35.58%	0.19%	10.84%	11.53%	0.00%
Metros	0.98%	27.74%	33.40%	0.36%	16.81%	20.67%	0.04%
<b>All India</b>	<b>0.61%</b>	<b>38.05%</b>	<b>41.27%</b>	<b>0.19%</b>	<b>9.05%</b>	<b>10.82%</b>	<b>0.01%</b>

17. Out of total number of wireless subscribers, about 19.23% wireless subscribers availed roaming service during the year 2021. The chart

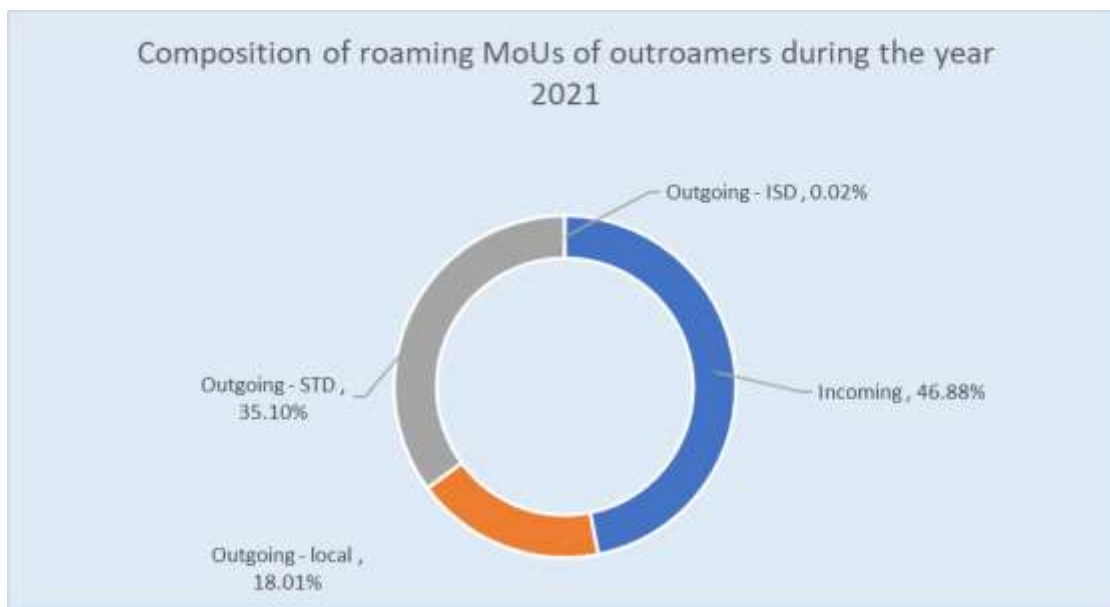
given below presents the share of wireless subscribers who availed roaming service during the year 2021.

**Chart 2.5: Share of subscribers who availed roaming service during the year 2021**



18. The chart given below presents the composition of roaming MoUs of outroamers (who had availed roaming services) during the year 2021.

**Chart 2.6: Composition of roaming MoUs of outroamers during the year 2021**



**C. Average revenue per outgoing minute for usage from Home Service Area (HSA)**

19. 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 for usage from Home Service Area (HSA) as defined below would be a realistic indicator of average tariff levels.

20. Average Revenue per Outgoing Minute for usage from HSA

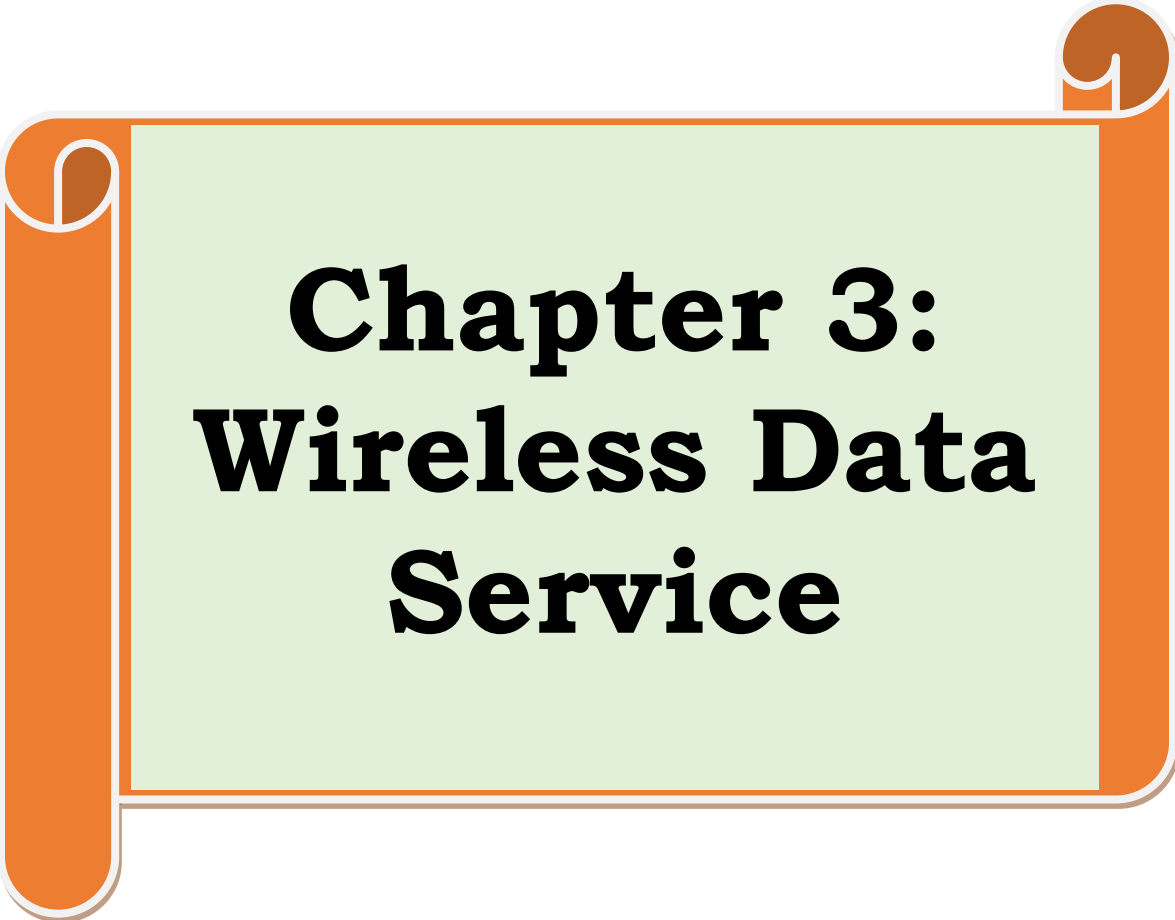
$$= \frac{\text{Rental revenue} + \text{Total call revenue}}{\text{No. of outgoing minutes from HSA}}$$

21. The table below provides the Average Revenue per Outgoing Minute for usage from HSA during the year 2021.

**Table 2.7: Average Revenue per Outgoing Minute for usage from HSA (in Rs. per minute) during the year 2021**

Category	Postpaid		Prepaid		Blended	
	2020	2021	2020	2021	2020	2021
Circle A	0.14	0.11	0.05	0.04	0.06	0.05
Circle B	0.14	0.08	0.05	0.04	0.05	0.04
Circle C	0.10	0.05	0.05	0.04	0.05	0.04
Metros	0.13	0.10	0.04	0.03	0.05	0.04
<b>All India</b>	<b>0.13</b>	<b>0.09</b>	<b>0.05</b>	<b>0.04</b>	<b>0.05</b>	<b>0.04</b>

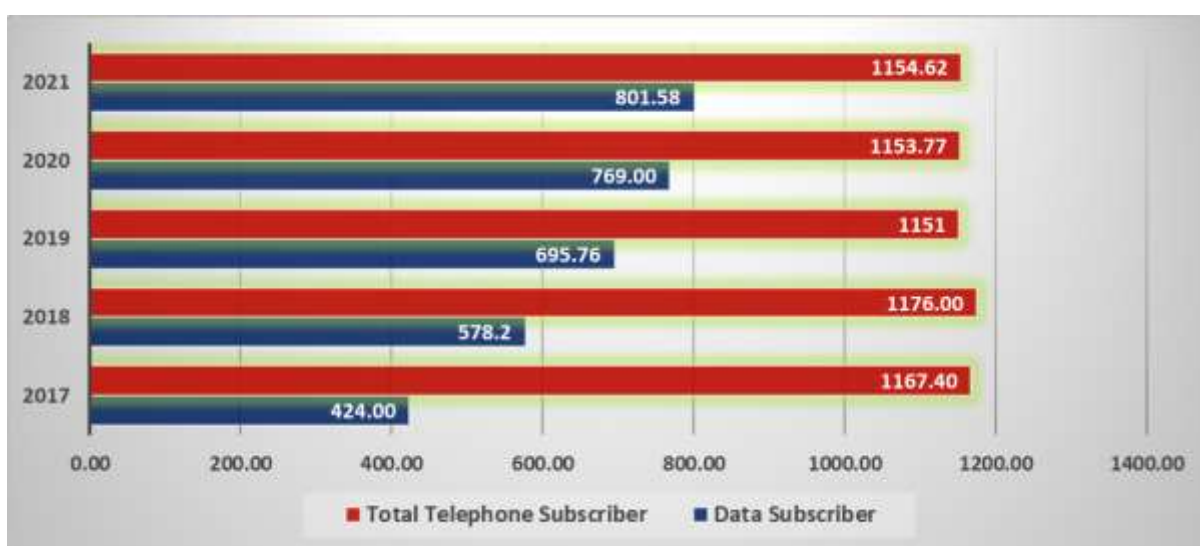
22. Average subscriber revenue per outgoing minute for wireless service from home service area declined from Rs.0.05 during the year 2020 to Rs.0.04 during the year 2021.



# **Chapter 3: Wireless Data Service**

1. As per information received from the wireless access service providers, number of wireless data subscribers has increased from 769 million at the year ending 2020 to 802 million at the year ending 2021 with yearly growth rate of 4.24%. The number of wireless data subscribers was 227.91 million at the year ending 2013.
2. Total number of wireless telephone subscribers was 1154.62 million at the year ending 2021. Out of total number of wireless telephone subscribers, the number of wireless data subscriber was 802 million at the year ending 2021. Thereby, share of wireless data subscribers was 69.42% of total wireless telephone subscribers at the year ending 2021.

**Chart 3.1: Trend of total wireless telephone subscribers and total wireless data subscribers (in Million)**



3. Total volume of wireless data usage increased from 103,522 million GB during the year 2020 to 135,657 million GB during the year 2021 with yearly growth of 31.04%.
4. Total volume of Wireless data usage comprises of data usage by 2G, 3G, 4G and CDMA data subscribers. Technology-wise distribution of volume of wireless data usage is mentioned in the following table.

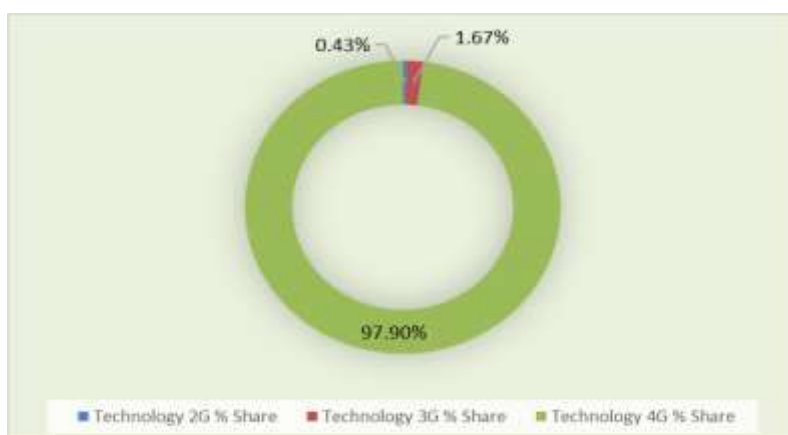


**Table 3.1 : Wireless data usage (in million GB per year)**

Year Ending	2G Data Usage	3G Data Usage	4G Data Usage	CDMA Data Usage	Total Volume of Data Usage
2016	477	1,221	2,775	169	4,642
2017	423	3,187	16,426	56	20,092
2018	443	5,654	40,304	3	46,404
2019	488	4,705	71,125	-	76,319
2020	669	3,055	99,798	-	1,03,522
2021	589	2,261	1,32,808	-	135,657

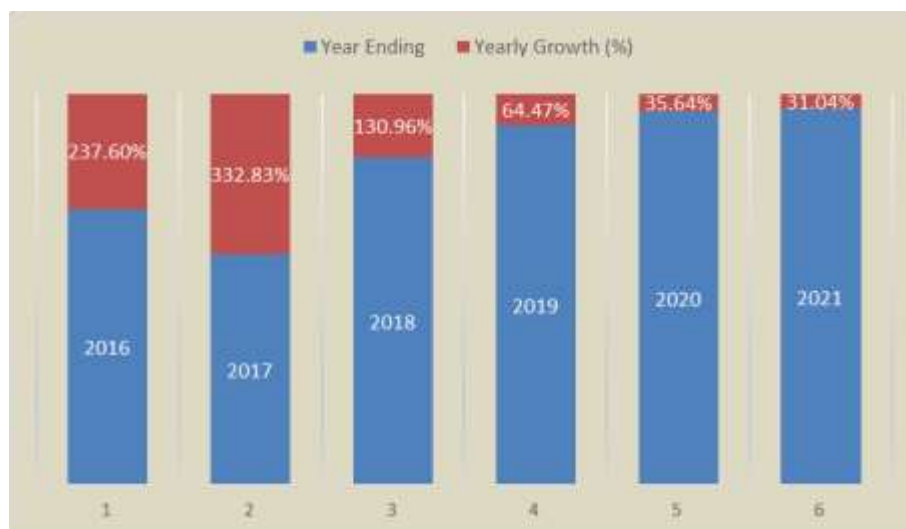
5. 4G technology (LTE – Long Term Technology) was introduced in India during the year 2016. During a short period of time, 4G data technology became the market leader in wireless data usage.
6. Out of total volume of wireless data usage of 132,808 million GB in the year 2021, 4G (LTE) technology has major part of 97.90% with volume of 1,32,808 million GB. Shares of 2G and 3G data usage are 0.43% and 1.67% respectively in total volume of wireless data usage in the year 2021.
7. Share of technology-wise data usage during the year 2021 is depicted in the following chart.

**Chart 3.2 : Share of 2G, 3G, and 4G data usage during 2021**



8. The following chart depicts the trend of yearly growth of volume of wireless data usage during last six years.

**Chart 3.3: Trend of yearly growth in volume of wireless data usage (%)**



9. Total volume of wireless data usage increased by 31.04% in the year 2021 over previous year, as compared to the yearly growth rate of 35.64% in the year 2020. However, the growth rate in volume of wireless data usage were recorded 130.96% and 64.47% in the years 2018 and 2019 over previous year.
10. Total revenue from wireless data usage increased from Rs.1,13,156 crore in the year 2020 to Rs. 1,35,175 crore in the year 2021 with yearly growth rate of 19.46%. The total revenue from wireless data usages was Rs. 22,265 crore in the year 2014.

**Chart 3.4 : Trend of Wireless Data Revenue (in crore Rs.) per year**

Year	Total Wireless Data Revenue	YoY Growth
2014	22,265	-
2015	31,120	39.77%
2016	35,079	12.72%

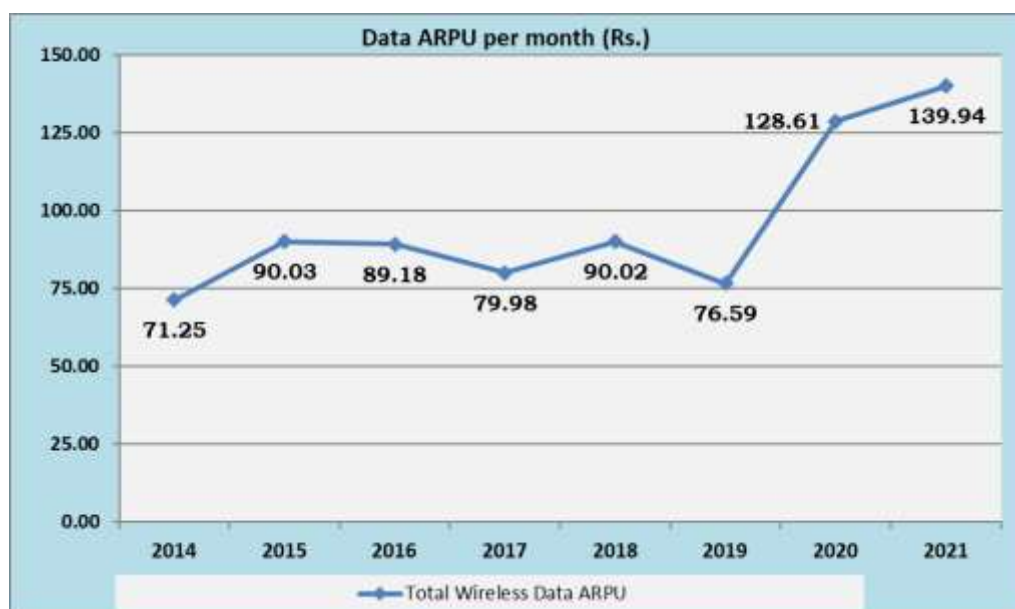
Year	Total Wireless Data Revenue	YoY Growth
2017	38,882	10.84%
2018	54,671	40.61%
2019	59,334	8.53%
2020	113,156	90.71%
2021	135,175	19.46%

11. Average Revenue for wireless data usage (Data ARPU) per data subscriber per month increased from Rs. Rs. 128.61 in the year 2020 to Rs. 139.94 in the year 2021.
12. Average revenue for data services has been derived on dividing of total yearly revenue of wireless data services by the average number of wireless data subscribers during the year. The following table and chart show the trend of Average Revenue Per Data User (data ARPU) per month for wireless data usage during the year 2014 to 2021.

**Table 3.2 : Average Revenue for wireless data usage per data subscriber per month (in Rs.)**

Year	Total Wireless Data ARPU
2014	71.25
2015	90.03
2016	89.18
2017	79.98
2018	90.02
2019	76.59
2020	128.61
2021	139.94

**Chart 3.5: Trend of Average Wireless Data Revenue per data subscriber per month (Data ARPU in Rs.)**



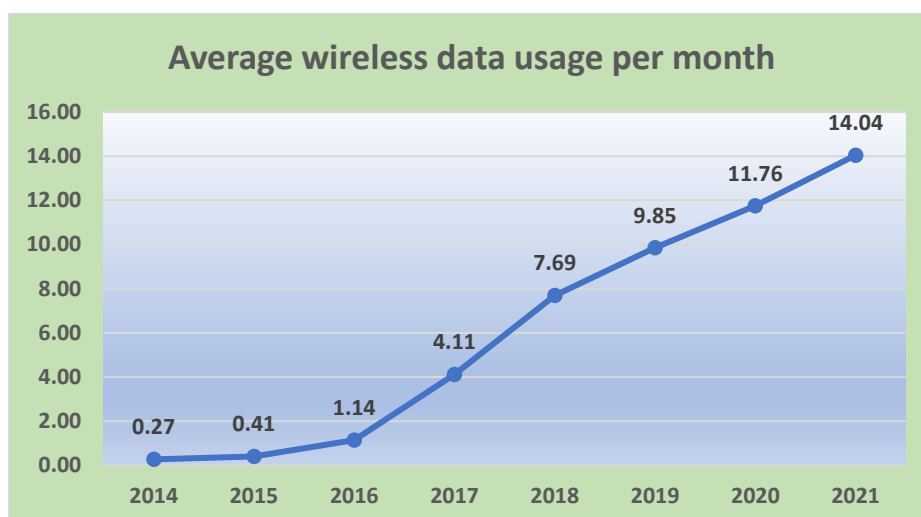
13. The following table and chart show the trend of Average Wireless Data Usage (in GB) per data subscriber per month during the year 2014 to 2021.

**Table 3.3 : Average Wireless Data Usage (in GB) per data user per month**

Year Ending	2G Data Usage	3G Data Usage	4G Data Usage	CDMA Data Usage	GSM Data Usage	Total Wireless Data Usage
2014	0.14	0.62	-	1.72	0.23	0.27
2015	0.20	0.75	-	2.53	0.35	0.41
2016	0.23	0.79	12.42	2.31	1.16	1.14
2017	0.30	2.29	7.95	3.67	4.13	4.11
2018	0.54	5.26	9.73	2.15	7.69	7.60
2019	0.64	7.05	11.26	0.00	9.85	9.85
2020	1.16	8.26	12.71	0.00	11.77	11.76
2021	1.20	8.38	14.92	0.00	14.04	14.04

14. Average wireless data usage per wireless data subscriber per month increased from 11.76 GB during the year 2020 to 14.04 GB during the year 2021. The average wireless data usage per wireless data subscribers per month was 0.27 GB per month in the year 2014.

**Chart 3.6 : Trend of Average Wireless Data Usage (in GB) per active data user per month**



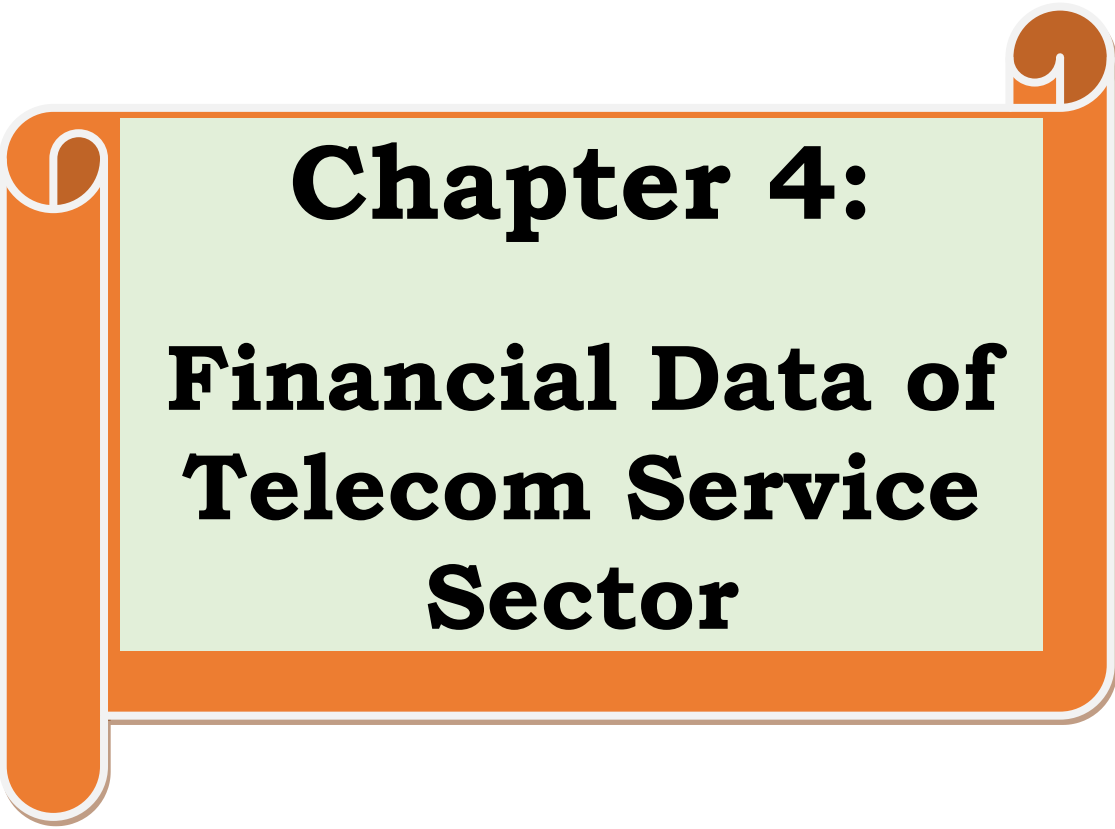
15. The following table depicts the average revenue realization per subscriber for per GB wireless data usage.

**Table 3.4 : Average revenue realization per subscriber for Per GB wireless data (in Rs.)**

Year	Total wireless data revenue realization per GB (Rs.)
2014	268.97
2015	226.30
2016	75.57
2017	19.35
2018	11.78
2019	7.77
2020	10.93
2021	9.96

16. Average wireless data revenue realization per subscriber has been calculated in respect of total wireless data revenue and volume of total wireless data usage reported by the access service providers.
17. The average revenue realization per subscriber per GB for wireless data in the year 2014 was Rs.269 per GB and in the year 2015, it was Rs.226 per GB. On introduction of 4G (LTE) technology in India,

the same was sharply declined to Rs.75.57 per GB during the year 2016. Average revenue realization per subscriber per GB for wireless data usage has been decreased from Rs. 10.93 per GB in the year 2020 to Rs.9.96 per GB in the year 2021.



# **Chapter 4:**

## **Financial Data of Telecom Service Sector**

**Table 4.1: Gross Revenue (GR), Adjusted Gross Revenue (AGR), License Fee (LF) & Spectrum Charges**  
(Rupees in Crore)

Particulars***	Calendar Year, 2020	Calendar Year, 2021	Yearly Growth (%)
Gross Revenue (GR)	2,74,208	2,68,580	-2.05%
Adjusted Gross Revenue (AGR)	1,82,398	2,08,583	14.36%
License Fee	14,596	16,894	15.74%
Spectrum Usage Charges	5,781	6,687	15.66%
Pass Through Charges (GR-AGR)	91,810	59,996	-34.65%

- 1 Gross Revenue (GR) decreased from Rs.2,74,208 crore in the year 2020 to Rs.2,68,580 crore in the year 2021 with yearly decline rate of 2.05%. Adjusted Gross Revenue (AGR) increased from Rs.1,82,398 crore in the year 2020 to Rs. 2,08,583 crore in the year 2021 with yearly growth rate of 14.36%.
- 2 Pass through charges decreased by 34.65% from Rs. 91,810 crore in the year 2020 to Rs.59,996 crore in the year 2021. Pass-through charges as a percentage of Gross Revenue are 22.34% in 2021 as against 33.48% in the previous year.

\*\*\* 1. 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.

2. 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

3. License Fee means a fee payable by Licensee at prescribed intervals and rates for the period of the Licence.

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

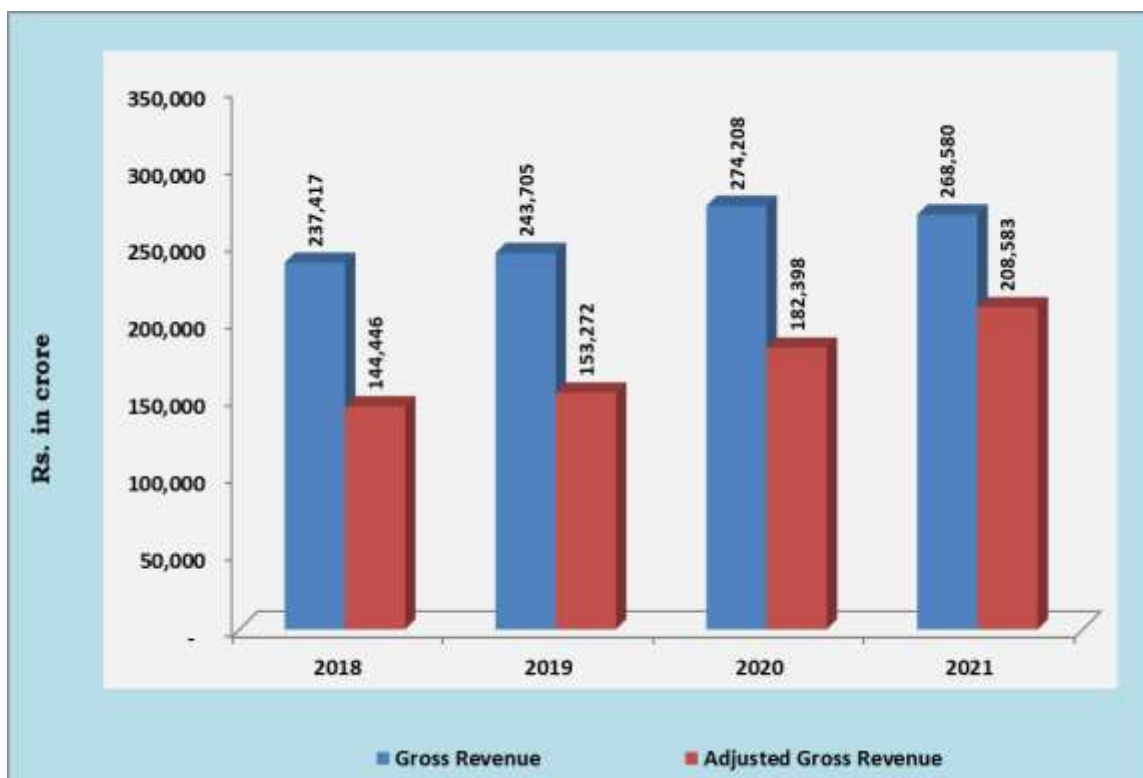
4. Pass through charges means the charges excluded from gross revenue to arrive at adjusted gross revenue for the purpose of levying licence fee.

(Source – DoT License Agreement)



3. Spectrum Usage Charges (SUC) yearly increased by 15.66% from Rs.5,781 crore in the year 2020 to Rs.6,687 crore in the year 2021. License Fee also yearly increased by 15.74% from Rs.14,596 crore to Rs.16,894 crore during the same period.
4. The following charts depicts the trend of GR and AGR of telecom sector during last four years.

**Chart 4.1: Comparison of Gross Revenue and Adjusted Gross Revenue (crore Rs.)**



5. The following table depicts the service category wise comparison of GR, AGR, License Fee, SUC and Pass Through Charges for the year 2020 and 2021.

**Table 4.2: Service-wise Gross Revenue, Adjusted Gross Revenue, License Fee and Spectrum Charges**

(Rs. in Crore)

Service	Year	Access	NLD	ILD	Others (V-SAT, MNP, ISP)	Total
Gross Revenue	2020	203850	40190	13496	16672	<b>274208</b>
	2021	207652	29931	12520	18476	<b>268580</b>
Adjusted Gross Revenue	2020	143415	30679	6504	1801	<b>182398</b>
	2021	164800	28578	6336	8869	<b>208583</b>
License Fee	2020	11484	2456	520	136	<b>14596</b>
	2021	13255	2304	504	830	<b>16894</b>
Spectrum Usage Charge	2020	5766	0	0	15	<b>5781</b>
	2021	6660	0	0	26	<b>6687</b>
Pass Through Charge	2020	60435	9511	6993	14871	<b>91810</b>
	2021	42852	1353	6185	9607	<b>59996</b>

**Table 4.3: Yearly Growth of Service-wise Gross Revenue, Adjusted Gross Revenue, License Fee and Spectrum Charges for the year 2021**

Service <sup>†††</sup>	Gross Revenue	Adjusted Gross Revenue	License Fee	Spectrum Charges	Pass Through Charges
Access	1.87%	14.91%	15.42%	15.51%	-29.09%
NLD	-25.53%	-6.85%	-6.17%	-	-85.77%
ILD	-7.23%	-2.58%	-3.22%	-	-11.56%
Others (V-SAT, MNP,ISP)	10.82%	392.36%	511.90%	72.33%	-35.40%
<b>Overall</b>	<b>-2.05%</b>	<b>14.36%</b>	<b>15.74%</b>	<b>15.66%</b>	<b>-34.65%</b>

††† 1. Access service means telecommunication service provided to subscribers by means of a telecommunication system for the conveyance of voice or non-voice messages through wired or wireless telegraphy on the network of the Access Service Provider.

2. National Long Distance (NLD) service refers to the carriage of switched-bearer telecommunication services over a long distance network.

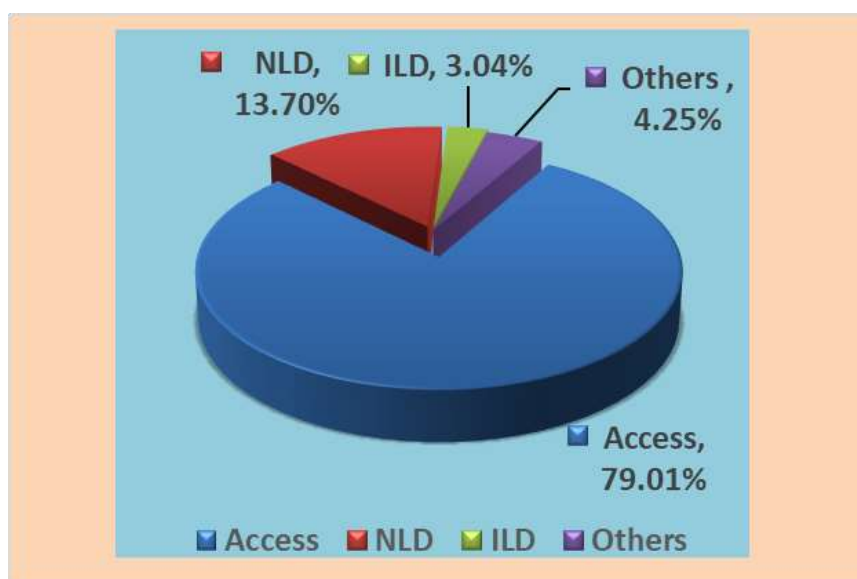
3. International Long Distance (ILD) Service is defined as a network carriage service, providing the NLD Operators in the country, International connectivity to Network facilities operated by foreign carriers in other countries

4. MNP (Mobile Number Portability) means a service which allows subscribers to retain their existing telephone number when they switch from one access service provider to another irrespective of mobile technology or from one technology to another of the same or any other access service provider

5. ISP stands for Internet Service Providers

(Source – DoT License Agreement)

**Chart 4.2: Service wise composition of Adjusted Gross Revenue for the year 2021**

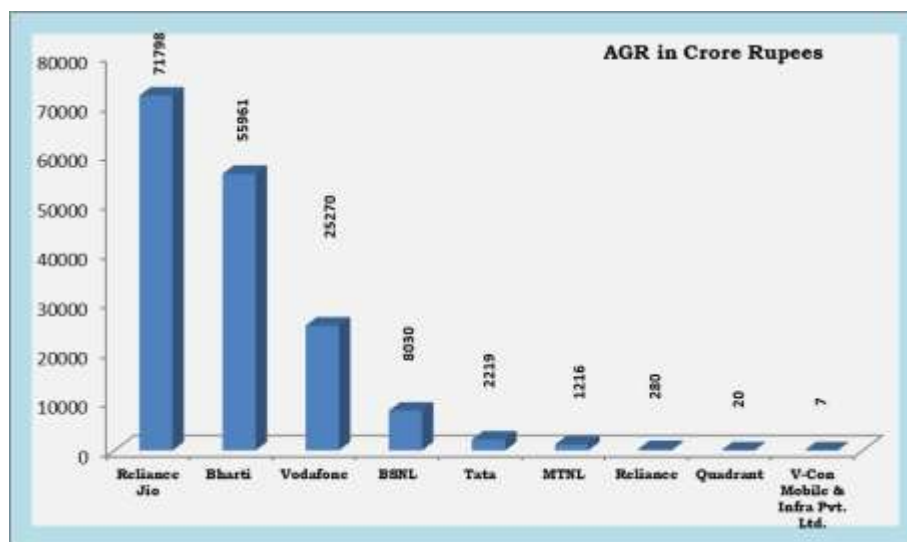


6 Access services contributed 79.01% of the total Adjusted Gross Revenue of telecom services. In Access services, Gross Revenue (GR), Adjusted Gross Revenue (AGR), License Fee and Spectrum Usage Charges (SUC) increased by 1.87%, 14.91%, 15.42% and 15.51% respectively in the year 2021 over the year 2020. However, Pass Through Charges declined by 29.09% during the same period.

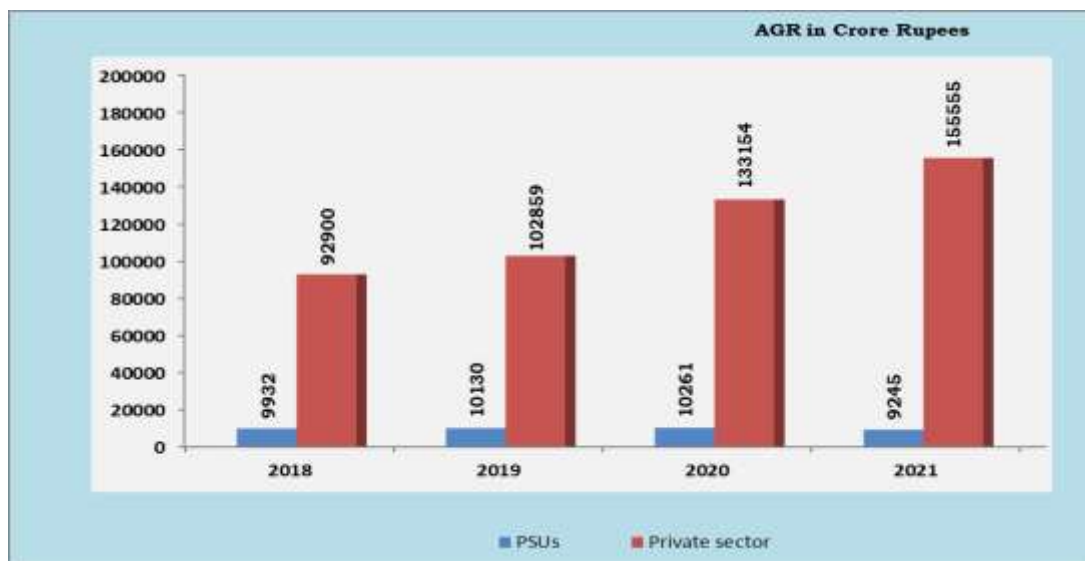
**Table 4.4: Access Service – Service Provider wise Adjusted Gross Revenue (Rs. in Crore)**

Sl.No.	Access Service Provider	Calendar Year 2020	Calendar Year 2021	Yearly Growth (%)
1	Reliance Jio	61,785	71,798	16.21
2	Bharti	41,931	55,961	33.46
3	Vodafone	26,756	25,270	-5.56
4	BSNL	8,735	8,030	-8.08
5	Tata	2,372	2,219	-6.45
6	MTNL	1,525	1,216	-20.30
7	Reliance	302	280	-7.16
8	Quadrant	-1	20	3,822.05
9	V-Con Mobile & Infra Pvt. Ltd.	9	7	-20.39
<b>Grand Total (Access)</b>		<b>1,43,415</b>	<b>1,64,800</b>	<b>14.92</b>

**Chart 4.3: Composition of Adjusted Gross Revenue (in crore Rs.) of Access Service Providers for the year 2021**



**Chart 4.4: Composition of Public/Private sector of Adjusted Gross Revenue (Access Service) (in crore Rs.)**



7. Public Sector Undertakings' (PSUs) share in the Access AGR of telecom services is 5.61% for the year 2021 as compared to 7.15% in the previous year. Following table depicts the share of PSUs vs. Private Sector in total access AGR during last four years.

**Table 4.5: Access Service – Share of PSUs and Private Sector in Adjusted Gross Revenue**  
(Rs. in Crore)

Calendar Year	PSUs	Private sector	Total	Share of PSUs
2021	9,932	92,900	1,02,832	9.66%
2019	10,130	1,02,859	1,12,989	8.97%
2020	10,261	1,33,154	1,43,415	7.15%
2021	9245	155555	164800	5.61%

**Table 4.6: Category-wise Adjusted Gross Revenue (AGR) of Access Service**  
(Rs. in Crore)

Category##	Adjusted Gross Revenue (Access)		Yearly Growth (%)
	2020	2021	
Metro	15,144	17,677	16.72%
Circle A	55,400	63,073	13.85%
Circle B	53,207	60,523	13.75%
Circle C	19,664	23,528	19.65%
<b>Total</b>	<b>1,43,415</b>	<b>164,800</b>	<b>14.91%</b>

## **Category-A circles** – Andhra Pradesh, Gujarat, Karnataka, Maharashtra and Tamilnadu (including Chennai)

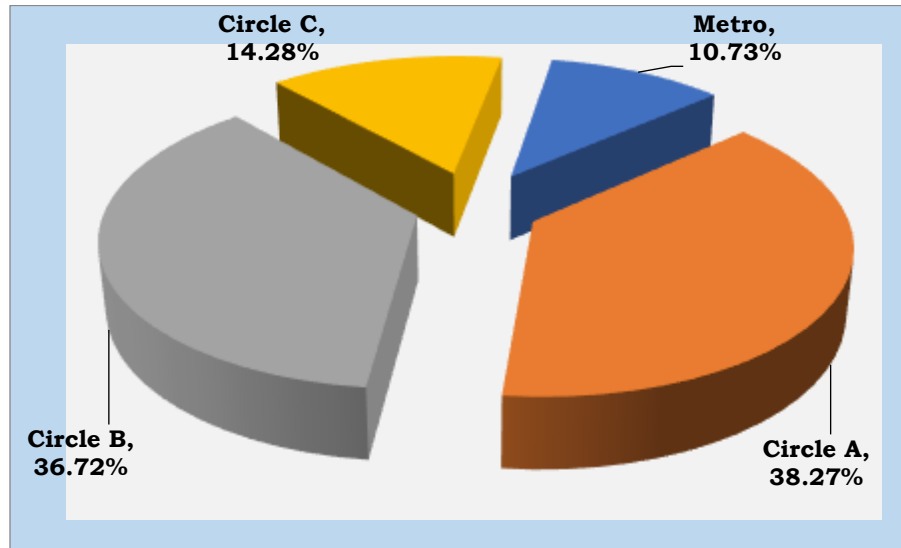
**Category-B circles** – Haryana, Kerala, Madhya Pradesh, Punjab, Rajasthan, Uttar Pradesh (East & West), West Bengal

**Category-C circles** – Assam, Bihar, Himachal Pradesh, Jammu & Kashmir, North East and Orissa

**Metro circles** – Delhi, Mumbai and Kolkata

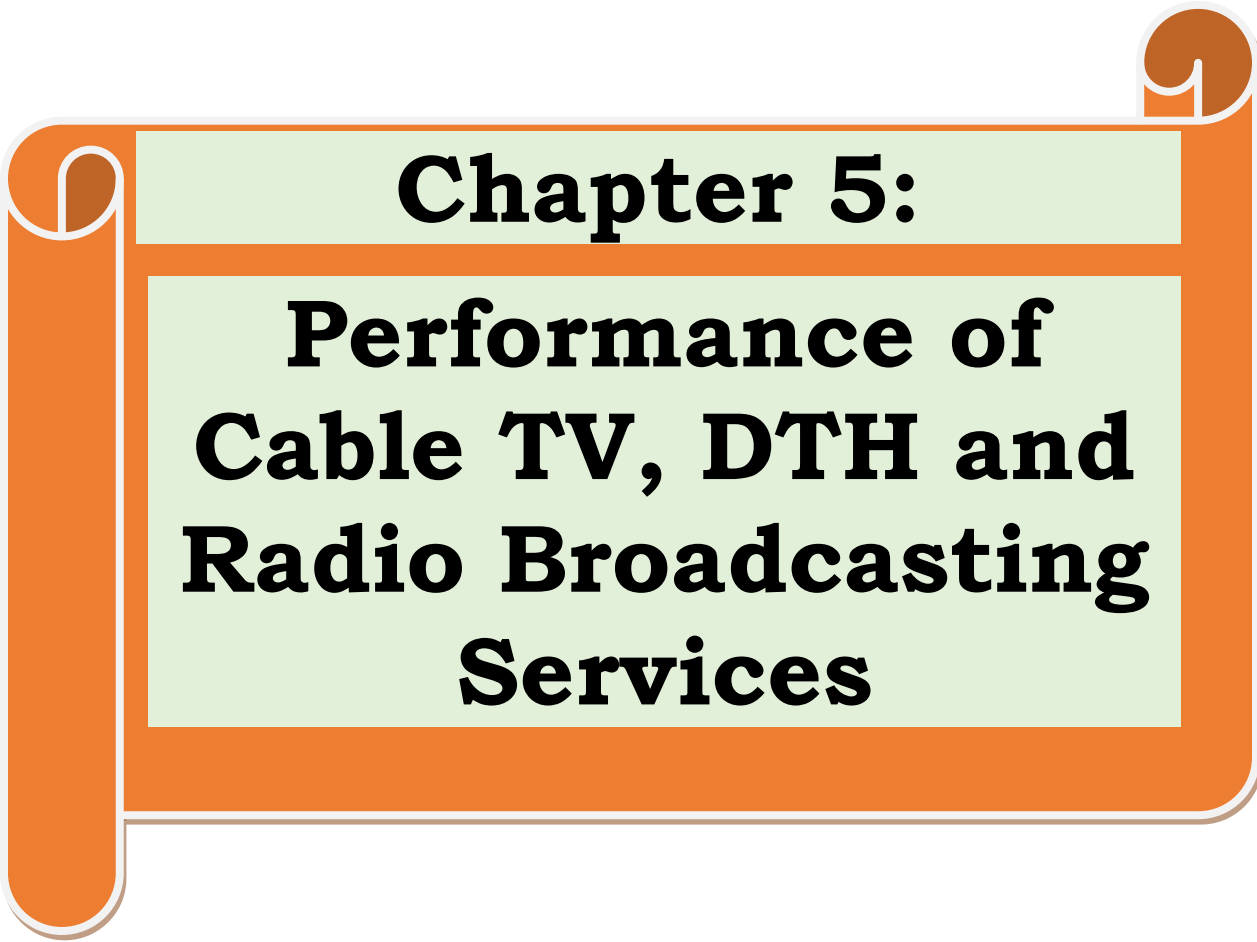
(Source- DoT License Agreement)

**Chart 4.5: Category wise Share of Adjusted Gross Revenue for the year 2021**



**Notes:**

1. Source: Figures are un-audited and as submitted by the Operators.
2. The figures have been regrouped wherever considered necessary for analysis purpose.
3. The figures are additions of four quarters of the calendar year, i.e. QE March, June, September and December.
3. The Spectrum usage charges (mostly) are now reported on “Payment for the current Quarter to Quarter” basis. However, some operators are reporting on payment basis or on estimate basis on projected AGR for next quarters.
4. Metro area includes Delhi, Mumbai and Kolkata only. Chennai is clubbed with Tamilnadu.
5. Where ‘2020’ stands for year starting from 1<sup>st</sup> January 2020 to 31<sup>st</sup> December 2020 and ‘2021’ stands for year starting from 1<sup>st</sup> January 2021 to 31<sup>st</sup> December 2021.



**Chapter 5:**

**Performance of  
Cable TV, DTH and  
Radio Broadcasting  
Services**

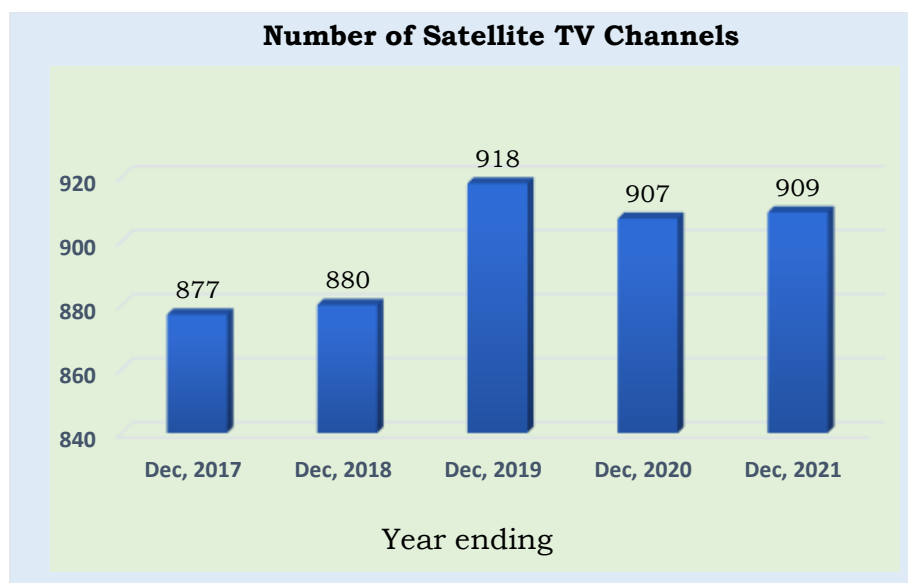
**Table 5.1: Key Parameters - Broadcasting & Cable Services**

S.No	Parameter	As on 31.12.2020	As on 31.12.2021
1	Number of Private satellite TV channels permitted by the Ministry of I&B for uplinking only/downlinking only/both uplinking and downlinking	907	909*
2	Number of Pay TV Channels as reported by broadcasters	326	350
3	Number of FM Radio stations (excluding All India Radio)	367	386
4	Number of Private DTH Operators	4	4
5	Number of net Active DTH Subscribers	70.99 Million	68.52
6	Number of Operational Community Radio Stations (CRS)	315	343

\* Source- MIB ([broadcastseva.gov.in/webpage-User-tvchannels](http://broadcastseva.gov.in/webpage-User-tvchannels))-as on 31.10.2021

#### A. Satellite TV Channels

1. A total of **909** 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**.

**Chart 5.1: Trend of number of Satellite TV Channels**



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

<b>Type of Permission</b>	<b>Number of channels</b>	<b>Remarks</b>
Uplinking only	16	TV channels uplinked from India but downlinked abroad only
Downlinking only	70	TV channels uplinked from abroad but downlinked only in India
Both Uplinking & downlinking	823	TV channels uplinked from India and also downlinked only in India
<b>Total</b>	<b>909</b>	

Out of 909 permitted satellite TV channels, 893 channels are available for downlinking in India.

### **B. Pay TV Channels**

- As per the reporting done by broadcasters in pursuance of the Tariff Order dated 3rd March 2017 as amended, out of 893 permitted satellite TV channels which are available for downlinking in India, Out of 350 pay channels, 253 are SD satellite pay TV channels and 97 are HD satellite pay TV channels. Apart from these pay channels reported to TRAI, all other channels, available for downlinking in India, are considered as Free to Air (FTA) channels. A list of pay TV channels offered by broadcasters for subscribers as reported to TRAI is attached as **Annexure-5.1**.

### **C. Cable TV Sector**

- As on 31<sup>st</sup> December 2021, there are 1753 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 0.3: Subscriber base of major MSOs/HITS operators at the end of December, 2021 (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	7,906,424
2.	Siti Networks Ltd	7,443,265
3.	Hathway Digital Ltd	5,480,327
4.	Den Networks Ltd	4,600,430
5.	Thamizhaga Cable TV Communication Pvt Ltd	3,864,781
6.	Kerala Communicators Cable Ltd	3,010,793
7.	Tamil Nadu Arasu Cable TV Corporation Ltd	2,746,828
8.	NXT Digital Ltd (HITS)	2,245,427
9.	KAL Cables Pvt. Ltd	2,098,600
10.	Fastway Transmissions Pvt Ltd	2,074,462
11.	V K Digital Network Pvt. Ltd	1,913,630
12.	NXT Digital Ltd (Cable TV)	1,254,212
13.	Asianet Digital Network Pvt. Ltd	1,174,814

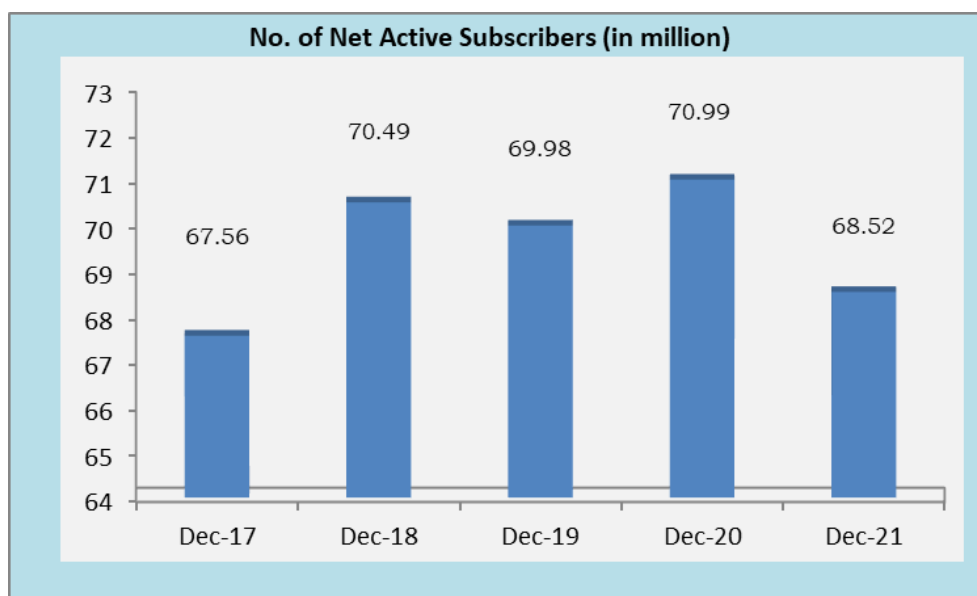
#### **D. Direct-to-Home (DTH) Sector**

6. Since its introduction in the year 2003, Indian DTH service has displayed a phenomenal growth. During the period ending 31<sup>st</sup> December, 2021, there were 4 pay DTH service providers in India. List and details of pay DTH service providers is placed at **Annexure-5.3**.
  
7. Pay DTH has attained net pay active subscriber base of around 68.52 million with 4 pay DTH service providers as on 31<sup>st</sup> December, 2021 as compared to 70.99 million subscribers with 4 pay DTH service providers as on 31<sup>st</sup> December, 2020. This is in addition to the subscribers of the free DTH services of Doordarshan. Yearly decrease

rate of 3.48% has been recorded in pay active subscriber base in the year 2021 as compared to the previous year.

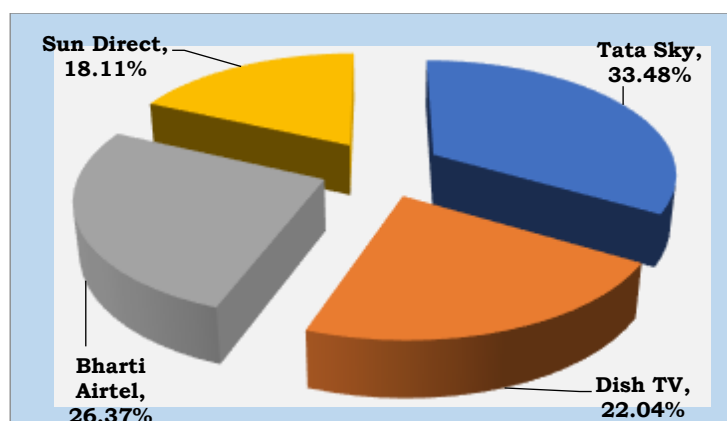
- The following chart depict the yearly trend of number of pay active subscribers of pay DTH service during last five years.

**Chart 5.2: Trend of Net Active subscribers (in million) of pay DTH service**



- The following chart depicts the service provider wise composition of market shares of net active subscriber base as on 31.12.2021.

**Chart 5.3: Composition of market share in respect of Net Active subscriber base of Pay DTH Service Providers**

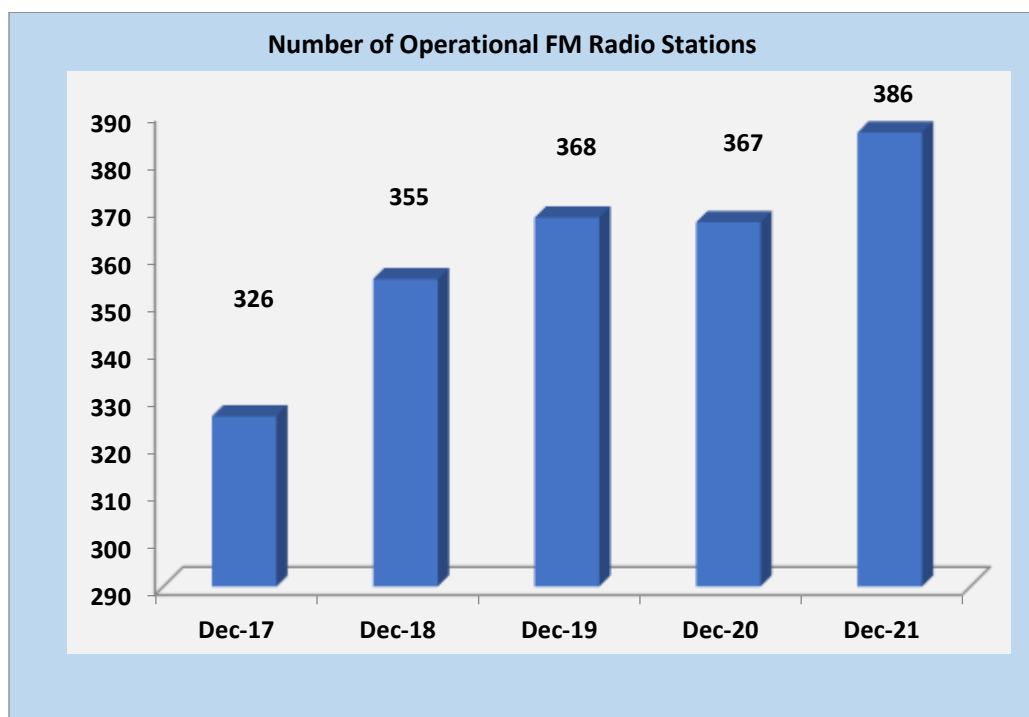


10. M/s Tata Sky is the market leader with 33.48% market share of total net pay active DTH subscribers followed by M/s Bharti Telemedia Ltd. with 26.37% as on 31<sup>st</sup> December, 2021.

#### **E. FM Radio Services**

11. Apart from the radio Stations operated by All India Radio, the public broadcaster, as on 31<sup>st</sup> December 2021, there are 386 operational private FM Radio stations in 113 cities with operational 36 Private FM Radio broadcaster as compared to 367 operational private FM Radio stations in 105 cities with operational 31 FM Radio broadcaster as on 31<sup>st</sup> December 2020.
12. The following chart depicts the trend of number of operational FM radio stations in India as on year ending 2017 to 2021.

**Chart 5.4: Trend of number of Operational FM Radio Stations**

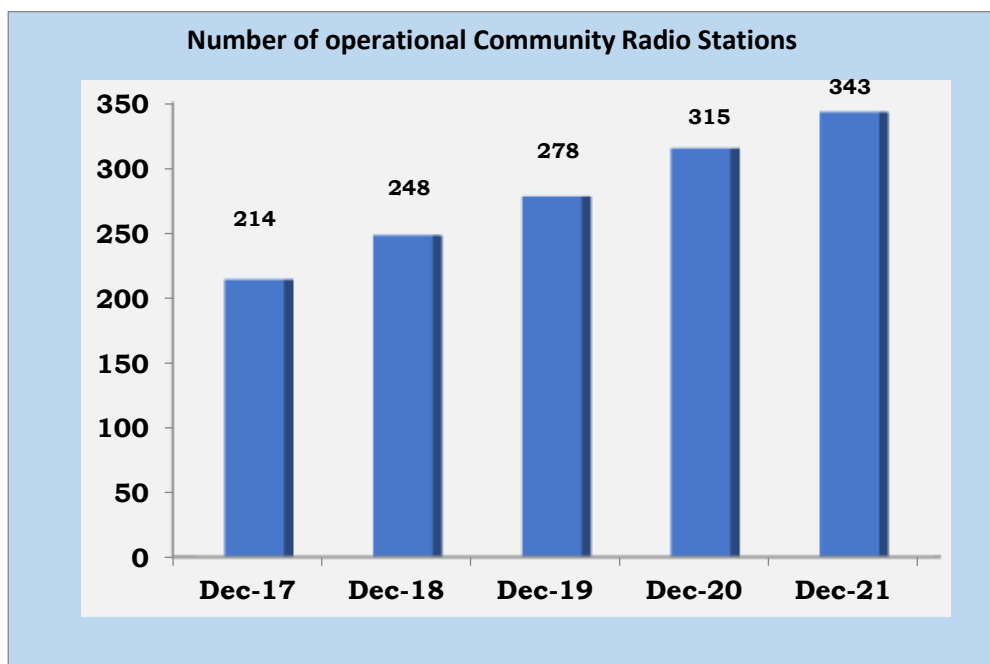


13. A list of existing cities with operational FM radio channels is placed at **Annexure 5.4.**

**D. Community Radio Stations<sup>§§§</sup>**

14. As on 31<sup>st</sup> December 2021, 343 Community Radio stations are operational as compared to 315 Community Radio station as on 31<sup>st</sup> December, 2020. The yearly trend of the number of operational community radio stations is depicted in the chart below.

**Chart 5.5 : Yearly Growth in number of Operational Community Radio Stations (CRS)**



*Source: Ministry of Information & Broadcasting (MIB)*

<sup>§§§</sup> Community radio station usually is a short-range, not-for-profit radio station or channel that caters for the information needs of people living in a particular locality, in the languages and formats that are most adapted to the local context. Community Radio Stations (CRS) are essentially low power radio stations to be set up and operated by the local communities.

(Source- Annual Report of MIB)

# **Annexures**

### Annexure 1.1: Wireless Subscriber Base

Service Area	Vodafone Idea		Bharti		Reliance Com.		BSNL		MTNL		Reliance Jio (LTE)		Total		Net Additions
	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	
Andhra Pradesh	16,142,823	14,241,991	30433618	31441078	1177	0	9670536	9250321			31369643	29977838	87,617,797	84,911,228	-2706569.00
Assam	3,354,187	2,751,705	8881995	9863684		0	2959676	3148812			8851010	8469432	24,046,868	24,233,633	186765.00
Bihar	12,378,262	10,577,260	35117840	36617800	190	0	5946966	6055483			31448264	34164308	84,891,522	87,414,851	2523329.00
Delhi	15,602,750	15,994,885	15847702	16083381	513	208			2169449	2153573	18974028	18363659	52,594,442	52,595,706	1264.00
Gujarat	25,021,411	23,790,340	11444492	11706924	271	109	5891420	5557094			25426122	26419800	67,783,716	67,474,267	-309449.00
Haryana	8,052,103	7,912,039	5079438	5758268	89	19	5094145	5008936			8907509	8964965	27,133,284	27,644,227	510943.00
Himachal Pradesh	711,847	581,906	3327293	3346476	97	93	3010300	2731558			4004237	3685363	11,053,774	10,345,396	-708378.00
Jammu & Kashmir	524,869	460,394	5548416	5585762	0	0	1264351	1314310			4464159	4440438	11,801,795	11,800,904	-891.00
Karnataka	9,583,667	8,249,302	29491199	30515006	1938	691	7257790	6883854			20894958	20628775	67,229,552	66,277,628	-951924.00
Kerala	17,317,452	16,408,387	6487239	7655543	489	185	10960864	10713151			9911644	9590349	44,677,688	44,367,615	-310073.00
Madhya Pradesh	21372271	20461601	14711874	15204073	518	0	6271291	6016461			33150116	35689111	75,506,070	77,371,246	1865176.00
Maharashtra	32852288	28665552	17904801	20034296	463	0	6933418	6626836			35578402	37083113	93,269,372	92,409,797	-859575.00
Mumbai	9330964	11587899	9856523	9457931	952	1380			1148184	1103707	14652911	12027759	34,989,534	34,178,676	-810858.00
North East	1467590	1217071	5312862	5541403	0	0	1366913	1355620			4067072	3889037	12,214,437	12,003,131	-211306.00
Orissa	2536251	2002780	10858137	11054462	219	66	6414057	6230390			13705976	13887968	33,514,640	33,175,666	-338974.00
Punjab	8711158	8871081	10666819	11698618	353	144	5855940	5340564			12490810	11889299	37,725,080	37,799,706	74626.00
Rajasthan	12229571	11463411	21562650	21437654	332	183	6364204	6339200			25004662	24090835	65,161,419	63,331,283	-1830136.00
Tamil Nadu	19066507	18029076	26051251	28022805	1248	317	11016854	9999921			24328225	24899646	80,464,085	80,951,765	487680.00
UP(E)	23421596	20531856	33434345	35978842	431	0	11644758	11135129			30092918	32816775	98,594,048	100,462,602	1868554.00
UP(W)	20332967	19033068	15801717	17844869	270	21	5883811	5707962			20410003	21620210	62,428,768	64,206,130	1777362.00
Kolkata	6957077	6313538	5904209	5551034	28	2	2448590	2282912			10857344	10207503	26,167,248	24,354,989	-1812259.00
West Bengal	17287656	16369180	14983747	15369706	976	316	2453707	2659841			20183313	22910130	54,909,399	57,309,173	2399774.00
<b>Total</b>	<b>284,255,267</b>	<b>265,514,322</b>	<b>338,708,167</b>	<b>355,769,615</b>	<b>10,554</b>	<b>3,734</b>	<b>118,709,591</b>	<b>114,358,355</b>	<b>3,317,633</b>	<b>3,257,280</b>	<b>408,773,326</b>	<b>415,716,313</b>	<b>1,153,774,538</b>	<b>1,154,619,619</b>	<b>845,081</b>

**Note:** The subscribers of M/s Bharti Airtel includes subscribers of M/s Tata Teleservices Ltd.

## Annexure 1.2: Wireline Subscriber Base

Service Area	Bharti		Reliance Com.		Quadrant		Tata		MTNL		BSNL		Vodafone		Reliance Jio		Total		Net Additions
	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	Dec-20	Dec-21	
Andhra Pradesh	246,692	331,146	21834	20421			153579	156777			606606	685587	62310	61800	286558	612321	1,377,579	1,868,052	<b>490,473</b>
Assam	-	-		-				0			84922	102699	3450	3090	37495	84138	125,867	189,927	<b>64,060</b>
Bihar	-	-	19	20			7421	7821			132134	178530	1830	1740	71741	213702	213,145	401,813	<b>188,668</b>
Delhi	1,494,955	1,726,905	36827	29875			142655	138496	1337088	1292016		0	76847	86377	219994	529284	3,308,366	3,802,953	<b>494,587</b>
Gujarat	116,751	141,669	3734	3466			81225	77024			512515	426891	33437	43306	214473	336570	962,135	1,028,926	<b>66,791</b>
Haryana	28,229	39,709	13	0			36637	33788			136906	182248	330	360	105429	60652	307,544	316,757	<b>9,213</b>
Himachal Pradesh	-	-	3	0			1747	1587			79352	87852	30	30	8143	26389	89,275	115,858	<b>26,583</b>
Jammu & Kashmir	-	34,236	-	-			0	0			92451	104446	0	30	65858	126060	158,309	264,772	<b>106,463</b>
Karnataka	803,607	876,762	27087	23731			260894	245416			780432	871076	103002	93657	203107	429875	2,178,129	2,540,517	<b>362,388</b>
Kerala	64,547	74,927	5438	4838			19128	18668			1145302	1062807	6120	8770	58634	130981	1,299,169	1,300,991	<b>1,822</b>
Madhya Pradesh	260,190	339,682	5	95			11692	10951			273161	289096	3585	9500	144815	314866	693,448	964,190	<b>270,742</b>
Maharashtra	141,296	240,718	11732	10683			231376	213806			769408	736465	29353	24673	82652	145434	1,265,817	1,371,779	<b>105,962</b>
Mumbai	383,653	461,513	75997	53726			494995	480526	1623003	1462573	0	0	95971	107871	346561	533097	3,020,180	3,099,306	<b>79,126</b>
North East		-		0				0			73283	80197	270	330	26189	70448	99,742	150,975	<b>51,233</b>
Orissa		-	6	4			8115	8353			155552	190624	6210	3670	36440	101190	206,323	303,841	<b>97,518</b>
Punjab	142,858	179,032	2228	1668	202915	211745	12870	13223			242734	257504	3240	2100	84121	145064	690,966	810,336	<b>119,370</b>
Rajasthan	71,438	128,159	4715	4007			11590	12197			266161	296733	16490	15200	96716	195944	467,110	652,240	<b>185,130</b>
Tamil Nadu	554,373	650,686	24465	23321			120947	117937			948714	1033111	39955	37880	234581	426886	1,923,035	2,289,821	<b>366,786</b>
U.P.(E)	74,102	110,259	25	20			7540	7979			173983	187383	20020	20070	111337	239448	387,007	565,159	<b>178,152</b>
U.P.(W)	43,370	78,709	8	7			4480	4427			156018	200908	5220	3250	159845	254497	368,941	541,798	<b>172,857</b>
Kolkata	140369	167235	7330	6516			46980	45924			338083	389729	13740	9930	119138	234916	665,640	854,250	<b>188,610</b>
West Bengal		-	13	12			2322	2410			201006	229754	120	120	40,974	120,837	244,435	353,133	<b>108,698</b>
<b>Total</b>	<b>4,566,430</b>	<b>5,581,347</b>	<b>221,479</b>	<b>182,410</b>	<b>202,915</b>	<b>211,745</b>	<b>1,656,193</b>	<b>1,597,310</b>	<b>2,960,091</b>	<b>2,754,589</b>	<b>7,168,723</b>	<b>7,593,640</b>	<b>521,530</b>	<b>533,754</b>	<b>2,754,801</b>	<b>5,332,599</b>	<b>20,052,162</b>	<b>23,787,394</b>	<b>3,735,232</b>



### Annexure 1.3: Service Area and Operator wise details of PCOs

Name of the Circle/Service Area	Service Provider	Number of PCOs as on 31.12.2020	Number of PCOs as on 31.12.2021
Andhra Pradesh	Bharat Sanchar Nigam Ltd.	7609	5,421
	Bharti Group	181	181
Assam	Bharat Sanchar Nigam Ltd.	624	512
Bihar	Bharat Sanchar Nigam Ltd.	3001	2,625
Delhi	Bharti Group	330	330
	Mahanagar Telephone Nigam Ltd./MTNL	38,936	6,906
Gujarat	Bharat Sanchar Nigam Ltd.	4,680	3,239
	Bharti Group	16	14
Haryana	Bharat Sanchar Nigam Ltd.	415	348
	Bharti Group	134	133
Himachal Pradesh	Bharat Sanchar Nigam Ltd.	618	548
Jammu & Kashmir	Bharat Sanchar Nigam Ltd.	372	267
Karnataka	Bharat Sanchar Nigam Ltd.	8,752	4,195
	Bharti Group	2,713	2,560
Kerala	Bharat Sanchar Nigam Ltd.	10,326	7,430
	Bharti Group	382	374
Kolkata	Bharat Sanchar Nigam Ltd.	1,884	1,522
	Bharti Group	26	26
Madhya Pradesh	Bharat Sanchar Nigam Ltd.	5,658	1,446
	Bharti Group	0	0
Maharashtra	Bharat Sanchar Nigam Ltd.	6,910	4,373
Mumbai	Bharti Group	50	50
	Mahanagar Telephone Nigam Ltd./MTNL	14,777	10,890
North East	Bharat Sanchar Nigam Ltd.	1452	598
Orissa	Bharat Sanchar Nigam Ltd.	1,044	325
Punjab	Bharat Sanchar Nigam Ltd.	1,182	995
	Bharti Group	4	0
	Quadrant	522	439
Rajasthan	Bharat Sanchar Nigam Ltd.	991	687
	Bharti Group	209	209
Tamilnadu	Bharat Sanchar Nigam Ltd.	17,654	12,131
	Bharti Group	0	0
Uttar Pradesh- East	Bharat Sanchar Nigam Ltd.	3,602	3,329
	Bharti Group	0	0

<b>Name of the Circle/Service Area</b>	<b>Service Provider</b>	<b>Number of PCOs as on 31.12.2020</b>	<b>Number of PCOs as on 31.12.2021</b>
Uttar Pradesh - West	Bharat Sanchar Nigam Ltd.	1,525	1,334
	Bharti Group	13	0
West Bengal	Bharat Sanchar Nigam Ltd.	423	197
<b>Total</b>		<b>137,015</b>	<b>73,634</b>

### Annexure 1.4: Service Area & Operator wise details of Village Public Telephones

Name of Circle/Service Area	Service Provider	Number of VPTs as on 31.12.2020	Number of VPTs as on 31.12.2021
Andhra Pradesh (Excluding Telangana)	Bharat Sanchar Nigam Ltd.	2052	2052
Telangana	Bharat Sanchar Nigam Ltd.	844	844
Assam	Bharat Sanchar Nigam Ltd.	105	105
Bihar (excluding Jharkhand)	Bharat Sanchar Nigam Ltd.	5893	5893
Jharkhand	Bharat Sanchar Nigam Ltd.	221	221
Gujarat	Bharat Sanchar Nigam Ltd.	5278	5278
Haryana	Bharat Sanchar Nigam Ltd.	462	462
Himachal Pradesh	Bharat Sanchar Nigam Ltd.	1875	1875
Jammu & Kashmir	Bharat Sanchar Nigam Ltd.	810	810
Karnataka	Bharat Sanchar Nigam Ltd.	3656	3656
Kerala	Bharat Sanchar Nigam Ltd.	331	331
Kolkata	Bharat Sanchar Nigam Ltd.	130	130
Madhya Pradesh (excl. Chhattisgarh)	Bharat Sanchar Nigam Ltd.	9907	9907
Chhattisgarh	Bharat Sanchar Nigam Ltd.	193	193
Maharashtra (incl. Mumbai & Goa)	Bharat Sanchar Nigam Ltd.	7846	7846
Arunachal Pradesh	Bharat Sanchar Nigam Ltd.	623	623
Manipur	Bharat Sanchar Nigam Ltd.	93	93
Meghalaya	Bharat Sanchar Nigam Ltd.	207	207
Mizoram	Bharat Sanchar Nigam Ltd.	12	12
Nagaland	Bharat Sanchar Nigam Ltd.	25	25
Tripura	Bharat Sanchar Nigam Ltd.	222	222
Orissa	Bharat Sanchar Nigam Ltd.	1554	1554
Punjab	Bharat Sanchar Nigam Ltd.	4493	4493
Rajasthan	Bharat Sanchar Nigam Ltd.	0	0
Tamil Nadu (incl. Chennai)	Bharat Sanchar Nigam Ltd.	5478	5478
Uttar Pradesh- East	Bharat Sanchar Nigam Ltd.	568	568
Uttarakhand	Bharat Sanchar Nigam Ltd.	2121	2121
Uttar Pradesh – West (excluding Uttarakhand)	Bharat Sanchar Nigam Ltd.	1637	1637
West Bengal (excluding Andaman & Nicobar and Sikkim)	Bharat Sanchar Nigam Ltd.	11557	11557
Andaman and Nicobar	Bharat Sanchar Nigam Ltd.	93	93
Sikkim	Bharat Sanchar Nigam Ltd.	320	320
<b>Total</b>		<b>68,,606</b>	<b>68,606</b>

**Annexure 1.5 : Internet Service Provider(ISP) wise Internet Subscriber base as  
on 31.12.2021**

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
1	Reliance Jio Infocomm Ltd	0	420283175	420283175
2	Bharti Airtel Ltd.	20587733	210065491	230653224
3	Vodafone Idea Limited	13628068	122623217	136251285
4	Bharat Sanchar Nigam Ltd.	2789141	25537878	28327019
5	Atria Convergence Technologies Pvt. Ltd.	0	2005924	2005924
6	Hathway Cable & Datacom Pvt. Ltd.	0	1077425	1077425
7	You Broadband India Pvt. Ltd.	14434	825860	840294
8	ONEOTT iNTERENTAINMENT LTD (Planet E-Shop Holdings India Ltd.)	0	771650	771650
9	GTPL Broadband Pvt. Ltd.	0	718778	718778
10	Mahanagar Telephone Nigam Ltd.	59663	624451	684114
11	Excitel Broadband Private Limited	0	641351	641351
12	Kerala Vision Broadband Ltd.	0	614880	614880
13	Alliance Broadband Services Pvt. Ltd.	0	498650	498650
14	Netplus Broadband Services Pvt. Ltd	0	456902	456902
15	RailTel Corporation of India Ltd.	0	431168	431168
16	Asianet Satellite Communications Ltd.	0	371600	371600
17	Tikona Infinet Pvt Ltd	0	289572	289572
18	D-Vois Communication Private Limited	0	277817	277817
19	Intech Online Pvt. Ltd.	0	273542	273542
20	QUICKEST BROADBAND PVT. LTD.	0	268543	268543
21	Tata Sky Broadband Private Limited	0	268543	268543
22	Quadrant Televentures Ltd.	53	234761	234814
23	Joister Infoserve Pvt. Ltd.	0	204244	204244
24	Excell Media Pvt. Ltd.	0	143177	143177
25	Indinet Service Pvt. Ltd	0	122812	122812
26	DEN Broadband Limited	0	111640	111640
27	Wish Net Pvt. Ltd.	0	105336	105336
28	Limras Eronet Broadband Service Pvt Ltd	0	94990	94990
29	Five Network Solution (India) Ltd.	0	91377	91377
30	Airnet Cable & Datacom Private Limited	86129	0	86129
31	ANI NETWORK PVT LTD	0	85131	85131
32	GTPL KCBPL Broadband Private Limited	0	76860	76860
33	SITI Broadband Services Pvt. Ltd.	0	75920	75920
34	Fusionnet Web Services Pvt. Ltd.	0	70434	70434
35	Digital Satellite Connect Private Limited	0	58981	58981
36	Ishan Netsol Pvt Ltd	0	57909	57909
37	Dwan Supports Pvt. Ltd.	0	52418	52418

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
38	K NET Solutions Private Limited	0	50487	50487
39	Tata Teleservices Limited	82	42811	42893
40	Instanet Technologies Pvt. Ltd.	0	35067	35067
41	Honesty Net Solutions (I) Pvt Ltd	1	34465	34466
42	DNA Infotel Pvt Ltd	0	33118	33118
43	Wan and Lan Internet Pvt. Ltd.	0	33100	33100
44	Microscan Infommtech Private Limited	0	32374	32374
45	Srisitsanchar Webnet Limited	0	26977	26977
46	Shyam Spectra Private Limited	0	24484	24484
47	Sikka Broadband(P) Ltd.	0	24432	24432
48	Ethernet Xpress(I) Pvt. Ltd.	0	24358	24358
49	Genstar Network Solutions Pvt. Ltd.	0	23816	23816
50	Digital Network associates Pvt. Ltd	0	23583	23583
51	Juweriyah Networks Private Limited	0	23239	23239
52	Kernel Fibernet Online Network Pvt Ltd	0	21987	21987
53	Ortel Communication Ltd.	0	21863	21863
54	Kings Broadband Pvt. Ltd	0	21823	21823
55	Multicraft Digital Technologies Private Limited	0	21156	21156
56	Radinet Info Solutions Pvt Ltd	0	21061	21061
57	Tachyon Communications Private Limited	0	21049	21049
58	Weebo Networks Pvt Ltd.	0	20714	20714
59	Readylink Internet Services Pvt Ltd	0	20039	20039
60	Nuron Networks Private Limited	0	19960	19960
61	Rajesh Digital & Datacom Pvt. Ltd.	0	19762	19762
62	RI Networks Pvt Ltd	0	19600	19600
63	Sai Prasad Internet Services Pvt. Ltd.	0	18818	18818
64	Shree Omkar Infocom Pvt. Ltd.	0	17834	17834
65	DDC BROADBAND PRIVATE LIMITED	0	17701	17701
66	Yashash Cable Network Pvt Ltd	0	17640	17640
67	United Telecoms Ltd.	0	17015	17015
68	Airlink Communications Pvt. Ltd	0	16209	16209
69	Stampede Communications Pvt. Ltd.	0	16014	16014
70	Quest Consultancy Pvt. Ltd.	0	15998	15998
71	Tata Communications Limited	158	15400	15558
72	City Online Services Ltd	0	15304	15304
73	ESTO BROADBAND Pvt. Ltd.	0	14679	14679
74	Spiderlink Networks Pvt. Ltd.	0	14608	14608
75	Meghbela Cable & Broadband Servies (P) Ltd	0	14462	14462
76	Intermedia Cable Communication Pvt Ltd	0	11661	11661
77	Angel Air Network Solutions Private Limited	0	11472	11472

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
78	Ultrahnet Infotech Solution Private Limited	0	10950	10950
79	DL GTPL Broadband Pvt. Ltd.	0	10781	10781
80	HYFY Giga Fiber Pvt. Ltd.	0	10750	10750
81	Signum Digital Networks Pvt. Ltd	0	10735	10735
82	Net 9 Online Hathway Private Limited	0	10634	10634
83	Airfiber Networks Pvt. Ltd.	0	10137	10137
84	LM ENERGY & SOFTWARE PVT. LTD.	5745	4361	10106
85	Broadband Pacenet (I) Pvt. Ltd.	0	9684	9684
86	MAHA MEDIACOM INTERNET PVT. LTD.	0	9469	9469
87	INFONET COMM ENTERPRISES PVT LTD	0	9351	9351
88	Cityzone Infonet Pvt. Ltd	0	9171	9171
89	JETWAY Broadband India Pvt Ltd.	0	8960	8960
90	Five Internet Solutions Pvt. Ltd.	0	8028	8028
91	AT Broadband Pvt. Ltd.	0	7874	7874
92	Airconnect Internet Services Pvt. Ltd.	149	7669	7818
93	Apna Telelink Ltd.	0	7750	7750
94	Candor Infosolution Pvt. Ltd.	0	7478	7478
95	ANI BROADBAND SERVICE PVT LTD	3343	4084	7427
96	Siliguri Internet & Cable TV Pvt. Ltd.	0	7420	7420
97	FOXTEL TELECOMMUNICATIONS PVT LTD	0	7325	7325
98	World Phone Internet Services Pvt Ltd	0	7222	7222
99	Balaji Teleworks Development Pvt Ltd	0	7146	7146
100	Kappa Internet Services Pvt Ltd.	0	7137	7137
101	Prisac Aviation Technologies Pvt. Ltd.	0	7071	7071
102	SSCN PVT LTD	0	6972	6972
103	North East Dataa Network Pvt Ltd.	0	6721	6721
104	Skymax Broadband Services Pvt. Ltd.	6700	0	6700
105	WSNS Pvt. Ltd.	0	6642	6642
106	Orange Waves Networks Pvt. Ltd.	0	6119	6119
107	Om Asha Net Pvt. Ltd.	0	6076	6076
108	S S Netcom Pvt. Ltd.	0	6039	6039
109	DEEPNET BROADBAND PRIVATE LIMITED	0	6007	6007
110	Deepnetwork Pvt. Ltd.	0	6007	6007
111	Symbois Creations Pvt. Ltd.	0	5592	5592
112	Wefe Technology Pvt. Ltd.	344	5203	5547
113	Sonali Internet Services Pvt Ltd	0	5375	5375
114	Pacenet Meghbela Broadband Pvt. Ltd.	0	5302	5302
115	Geocity Network Solutions Pvt. Ltd.	0	5167	5167
116	R.G. Technosolutions Pvt. Ltd.	0	5132	5132
117	GBPS Networks Pvt. Ltd.	0	5105	5105
118	B2H Infonet Pvt. Ltd.	0	5072	5072

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
119	Southern Online Bio Technologies Ltd.	0	4874	4874
120	Multinet (Udaipur) Pvt. Ltd.	0	4844	4844
121	IAXN Telecom Pvt. Ltd.	0	4766	4766
122	Dsouza Infotainment Pvt. Ltd.	0	4677	4677
123	Nextra Teleservices Pvt. Ltd.	0	4644	4644
124	Wnet Telecom Private Limited	0	4511	4511
125	delDSL Internet Pvt Ltd	2105	2105	4210
126	Swiftmail Communications Ltd.	0	4093	4093
127	LALAT INTERNET SERVICE PVT LTD	0	4071	4071
128	Sri Nagar Net Tech Pvt. Ltd.	0	4034	4034
129	Blazenet Ltd.	0	4017	4017
130	Bittel Telecom Pvt.Ltd	0	4016	4016
131	Getway Broadband Pvt. Ltd.	0	3927	3927
132	SUPER SONIC BROADBAND PVT LTD	0	3915	3915
133	Five Net Service Provider Pvt. Ltd.	0	3848	3848
134	SNS Internet Services Pvt. Ltd.	0	3799	3799
135	Arktel Networks Pvt. Ltd. (Formerly Know Sifi Online Pvt. Ltd.)	1853	1856	3709
136	Shine Communications Pvt. Ltd.	0	3659	3659
137	Mukand Infotel Pvt. Ltd.	0	3634	3634
138	Siddhant Broadband Pvt Ltd	0	3623	3623
139	Maharaj Netsol Pvt Ltd	0	3580	3580
140	Antarjal IT Communication Pvt. Ltd.	0	3510	3510
141	Fiberzone communication Pvt Ltd	0	3250	3250
142	SFOUR CABLENET PVT LTD	3054	185	3239
143	VRD Web Services Pvt. Ltd.	0	3200	3200
144	Rainbow Internet teleservices Pvt Ltd	10	3184	3194
145	MINDAGE BROADCASTING Pvt. LTD	0	2908	2908
146	Renu Giga Fiber Pvt. Ltd.	0	2904	2904
147	Airgenie Communications Pvt. Ltd.	0	2822	2822
148	AS Broadband Pvt Ltd	0	2822	2822
149	EI Dot Com Pvt Ltd	0	2804	2804
150	El Dot Com Pvt Ltd	0	2804	2804
151	CSC e-Governance Services India Ltd.	0	2779	2779
152	Sherie Plexus ISP Pvt. Ltd.	0	2779	2779
153	Deenet Services Pvt Ltd	0	2756	2756
154	NETVISION AWADH NETWORKS PVT LTD	0	2709	2709
155	TGN NETWORKS PVT LTD	0	2679	2679
156	CLASSIC INTERNET AND CABLE SERVICES PVT LTD	2646	0	2646
157	Nirav Infoway Pvt. Ltd.	0	2640	2640
158	TRANSMEDIA TECHNOLOGIES (AP) PVT LTD	0	2639	2639

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
159	WOW Solutions and Systems Pvt. Ltd	0	2631	2631
160	NISS INTERNET SERVICES PVT. LTD.	0	2535	2535
161	Chandra Net Pvt. Limited	0	2435	2435
162	STN INFOTECH PRIVATE LIMITED	0	2424	2424
163	Swiftnet Broadband Pvt Ltd	0	2417	2417
164	Kumar Cable Digital Network Pvt. Ltd.	0	2412	2412
165	Pink Broadband Services Pvt. Ltd.	643	1761	2404
166	Lotus Broadband Pvt Ltd	0	2356	2356
167	HIGHTEC NETWORK SOLUTIONS (OPC) PRIVATE LIMITED	0	2321	2321
168	Correl IT Services Pvt. Ltd.	1523	722	2245
169	Bakliwal Telecom Services Pvt. Ltd.	0	2236	2236
170	Macro Signal Pvt. Ltd	0	2184	2184
171	Uzaina Business India Pvt Ltd	0	2170	2170
172	Lbs Infoway India Pvt. Ltd.	0	2141	2141
173	Channel III Internet Pvt. Ltd.	0	2140	2140
174	Foxcell Communications Pvt. Ltd.	0	2117	2117
175	Net Access Internet India Private Limited	0	2087	2087
176	Airnetz Broadband Services Pvt. Ltd.	527	1545	2072
177	REALWIRE EXPRESS NETWORK PRIVATE LIMITED	0	2070	2070
178	Vision Smartlink Networking Pvt. Ltd.	0	2048	2048
179	Shikhar BroadbandEnterprises Pvt. Ltd.	0	2000	2000
180	Scud Communication Pvt Ltd	0	1981	1981
181	SMART NET INDIA PVT. LTD.	0	1981	1981
182	SMARTLINK SOLUTIONS PVT. LTD.	0	1965	1965
183	Speed Online.net Pvt. Ltd.	0	1961	1961
184	Galaxynet Connections Pvt. Ltd.	0	1947	1947
185	Jetspot Networks Pvt. Ltd.	0	1936	1936
186	Southnet Broadband Pvt. Ltd.	0	1935	1935
187	Country Online Services Pvt. Ltd.	523	1410	1933
188	Blu Ultraband Internet Services Pvt Ltd	0	1930	1930
189	Mayekar Broadband Pvt. Ltd.	0	1911	1911
190	CredenceIS Computing Pvt. Ltd.	10	1900	1910
191	CITY ONLINE AP PVT LTD	0	1906	1906
192	Rida Communication Pvt. Ltd.	857	1014	1871
193	First Mile Digital Private Limited	0	1860	1860
194	SBR Telecom Pvt. Ltd.	530	1330	1860
195	Sphier Infotech Pvt. Ltd.	0	1859	1859
196	Osbnnet Broadband Pvt. Ltd.	0	1855	1855
197	Exnet Broadband Pvt. Ltd.	0	1780	1780
198	Capture Network Systems Pvt. Ltd.	247	1517	1764



<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
199	Maruthi Cable & Data Pvt. Ltd.	0	1748	1748
200	DNS SKYLINK PVT. LTD.	0	1728	1728
201	Assistive networks & technologie Pvt Ltd	0	1701	1701
202	Syntego Technologies India Pvt. Ltd.	0	1694	1694
203	Protoact Digital Network Pvt. Ltd.	0	1683	1683
204	Karunay Internet Pvt. Ltd.	0	1667	1667
205	Bakcom Networks India Pvt Ltd	0	1638	1638
206	Surround Networks Pvt Ltd	0	1634	1634
207	Venessa Internet Private Limited	0	1613	1613
208	Netlinx Limited	0	1591	1591
209	Charotar Telelink Pvt. Ltd..	0	1578	1578
210	SIS NETWORKS PRIVATE LIMITED	0	1563	1563
211	Teligus Networks Pvt. Ltd	0	1531	1531
212	Speednet Unique Network Pvt. Ltd.	0	1506	1506
213	SHAILDHAR TELECOM SERVICE Pvt Ltd	0	1497	1497
214	ADRI INFOCOM PVT. LTD.	0	1415	1415
215	Kovai Fibernet Pvt. Ltd.	0	1413	1413
216	Netfirre Communications Pvt. Ltd.	0	1408	1408
217	Elyzium Technologies Pvt. Ltd.	0	1405	1405
218	MORE WIFI PRIVATE LIMITED	0	1370	1370
219	Skynet Datacom Pvt. Ltd.	0	1362	1362
220	Click 4 Net Internet Services Pvt. Ltd.	0	1355	1355
221	Wi-Link Network Pvt. Ltd	614	737	1351
222	SS FIBER NET OPTICAL COMMUNICATION PVT LTD	0	1350	1350
223	Speedmaxx Digital Networks Pvt. Ltd.	0	1343	1343
224	NGC Broadband Pvt. Ltd.	2	1317	1319
225	VN ETHERNET INDIA PRIVATE LIMITED	1316	0	1316
226	Gigacast Network Private Limited	0	1314	1314
227	Skyline Infonet Pvt. Ltd.	0	1308	1308
228	JB Jain Broadband Solutions Private Limited.	0	1290	1290
229	Broad Net India Pvt. Ltd.	1167	97	1264
230	MAKS COMMUNICATIONS PVT.LTD.	0	1248	1248
231	Sefaro Networks Pvt. Ltd.	0	1246	1246
232	City Broadband Network Pvt Ltd	63	1177	1240
233	RTEL INTERNET SERVICES PVT LTD	0	1232	1232
234	UNITED STARS NETWORK PRIVATE LIMITED	0	1221	1221
235	VENKATA SAI INTERNET PVT. LTD	0	1219	1219
236	REVOLUTION BROADBAND PVT LTD	0	1177	1177
237	Amar Broadband Pvt. Ltd.	0	1163	1163
238	Reliance Communications Limited	53	1098	1151

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
239	ALIGARH BROADBAND PVT. LTD.	1150	0	1150
240	Flashcom Network Pvt Ltd	0	1147	1147
241	ACN Fiber Pvt. Ltd.	0	1100	1100
242	Trueinet Networks Pvt.Ltd	0	1095	1095
243	Al-Mairah Braodband Pvt. Ltd.	0	1094	1094
244	FASTNET COMMUNICATION PVT. LTD	201	876	1077
245	BLITS GLOBAL TECHNOLOGIES Pvt. LTD	0	1074	1074
246	Mega Hertz Network Pvt Ltd	0	1052	1052
247	FTTX Broadband P Ltd	0	1050	1050
248	RK Broadband Hifi Services Pvt Ltd	0	1048	1048
249	Mega Hertz Network Solutions Pvt Ltd	0	1045	1045
250	DA Smartzone Pvt. Ltd.	0	1039	1039
251	Net First Communication Pvt Ltd	0	1018	1018
252	Sprioc Web Private Limited	0	1014	1014
253	Hostaxis Network Pvt Ltd	0	1009	1009
254	Oxynet Telecommunications Pvt. Ltd	0	997	997
255	Poem Techno Pvt. Ltd.	0	985	985
256	Hardwork Cable & Internet services Pvt. Ltd.	0	979	979
257	AHM Digital Network Pvt Ltd	0	970	970
258	Shrisai Shavenk Technologies Pvt. Ltd.	0	968	968
259	Anushree Digital Network Pvt Ltd	0	944	944
260	NetMagic Solutions(P) Ltd.	0	936	936
261	Grace Teleinfra Pvt Ltd	0	927	927
262	Veloxr Telecom Pvt. Ltd. (Shree Balaji Infoway Pvt Ltd.)	0	927	927
263	Sampath Venkateswara Communications Pvt. Ltd.	0	913	913
264	Sanchit Infocom Pvt Ltd	0	909	909
265	NETSAT COMMUNICATION PVT. LTD.	0	897	897
266	TOUCHNET BROADBAND SERVICES PVT LTD	0	886	886
267	ALWAR ONLINE PVT LTD	12	868	880
268	Ficus Telecom Pvt. Ltd.	0	873	873
269	Packenet Solutions Pvt. Ltd.	24	844	868
270	SKY ONLINE TECHNOSYSTEM PVT LTD	0	863	863
271	Darer Internet Services Pvt Ltd	0	849	849
272	Bluwaves Internet Services India Pvt. Ltd.	0	848	848
273	DREAMLINK TECHNOLOGIES PVT LTD	0	848	848
274	GREEN TECH NET COM PRIVATE LIMITED	0	830	830
275	Nandini Broadband Pvt. Ltd	0	819	819
276	Daksh Broadband Pvt Ltd	0	816	816
277	Spectram Telecom Pvt.Ltd	156	650	806

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
278	BHR BROADBAND Pvt. LTD	805	0	805
279	AU Networks Pvt. Ltd.	0	803	803
280	Jiffy Cable & Datacom Pvt. Ltd.	0	779	779
281	SB Broadband Services Pvt. Ltd.	0	775	775
282	CATLA IT&ENGG. CO. PVT LTD.	0	770	770
283	Datawave IT solutions Pvt. Ltd.	0	763	763
284	Bapu Internet Services Pvt .Ltd	744	0	744
285	Reticule Infotech Pvt. Ltd.	0	737	737
286	Wyris Network Pvt. Ltd.	0	730	730
287	Rajesh Patel Net Services Pvt. Ltd.	2	727	729
288	Telosy Telecom Pvt. Ltd.	0	729	729
289	LIMERICK TECHNOLOGIES PRIVATE LIMITED	0	727	727
290	Shree Manoranjan Broadband Pvt. Ltd.	0	726	726
291	Aeroway Networks Pvt Ltd.	0	725	725
292	VIVA Communications Pvt Ltd	0	725	725
293	Spirenet Digital Communications Pvt. Ltd.	0	720	720
294	NEONET COMMUNICATIONS PVT LTD	0	708	708
295	CNS Infotel Services Pvt. Ltd.	0	707	707
296	Power Grid Corporation of India Ltd.	0	707	707
297	Cloudnet Communications Pvt. Ltd.	0	706	706
298	Shineplus Networks Pvt Ltd	0	702	702
299	Touch Net India Pvt. Ltd.	0	702	702
300	Vimal Telecom Pvt. Ltd	0	700	700
301	CJ Online Pvt. Ltd.	0	694	694
302	TOUCH NET INDIATELESERVICE PRIVATE LIMITED	0	689	689
303	Smart Wi5 Pvt. Ltd.	0	686	686
304	Software Technology Park of India(STPI)	0	684	684
305	Aerocast Networks Pvt Ltd.	0	683	683
306	Gloiosa Infotel IT Services Pvt Ltd.	500	182	682
307	HPS DIGITAL BROADBAND PVT LTD	0	672	672
308	Unitel Media Pvt. Ltd.	671	0	671
309	SVD DIGITAL NETWORKS PVT LTD	0	670	670
310	Kosmic Broadband Pvt Ltd	669	0	669
311	Craze IT Solutions Pvt Ltd	0	667	667
312	Bandwidth Infinity Private Limited	0	665	665
313	Primenet Global Ltd.	0	665	665
314	BASS NETWORKS PRIVATE LIMITED	0	661	661
315	POWERNET TELECOM PVT LTD	0	649	649
316	Unisas Netserve Pvt Ltd	0	644	644
317	iAIRONET COMMUNICATION PVT LTD	0	631	631

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
318	Sarva Air World Network Pvt Ltd	0	622	622
319	Excel UG Pvt. Ltd.	0	620	620
320	VICTORY DIGITAL NETWORK PRIVATE LIMITED	0	620	620
321	Global India Tele Infra Pvt. Ltd.	0	615	615
322	Gleam Worldwide Services Pvt. Ltd.	0	613	613
323	Fastx Broadband Private Limited	0	612	612
324	Gowio Networks Pvt. Ltd	0	608	608
325	Windsor Internet Pvt. Ltd.	0	608	608
326	Enhancelink CoreportPvt. Ltd	0	604	604
327	RSBS Online Services Pvt. Ltd.	0	595	595
328	Briskcom Infoway Pvt. Ltd.	0	592	592
329	AMK SUNBEAM COMMUNICATION PRIVATE LIMITED	0	588	588
330	Sivaan Infocom Pvt. Ltd	0	586	586
331	Ometa Net Pvt. Ltd.	0	583	583
332	KGS NETWORKS PRIVATE LIMITED	0	575	575
333	Alphanet Broadband Pvt Ltd	0	571	571
334	Anish Infoline Pvt. Ltd.	0	570	570
335	Acegen Broadband Pvt Ltd.	0	567	567
336	Verizon Communications India Pvt. Ltd.	284	283	567
337	SG Broadband Internet Pvt. Ltd.	0	562	562
338	Stackbit Internet Services Pvt. Ltd.	0	560	560
339	Gazillio Technologies Pvt. Ltd.	0	557	557
340	Alegra Communication Pvt Ltd	0	552	552
341	HYOSEC SOLUTIONS Pvt. LTD	0	552	552
342	Digital2Virtual ISP Pvt. Ltd.	0	549	549
343	Panav Network and Communications Private Limited	0	548	548
344	ALLIED IT INFRASTRUCTURE & SERVICES PRIVATE LIMITED	536	0	536
345	MREZHI INTERNET PRIVATE LIMITED	0	524	524
346	Amity Hua Electronics Pvt. Ltd.	0	523	523
347	Fastnet Wire & Wireless Solutions Pvt. Ltd.	420	100	520
348	Raycom Fibers Private Limited	0	514	514
349	Varsha Datacom Services Pvt Ltd	0	514	514
350	Hughes Communications India Ltd.	37	474	511
351	Skylink Fibernet Pvt. Ltd.	0	503	503
352	Clickian Network Pvt. Ltd.	0	502	502
353	KSK Broadband Pvt. Ltd.	0	492	492
354	SAMMY NETWORKS PRIVATE LIMITED	489	0	489
355	Imperium Digital Network Pvt. Ltd.	0	487	487
356	Simplex Broadband Pvt Ltd	0	484	484

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
357	Spider Broadband and Cable Pvt. Ltd.	0	481	481
358	Hightel Digital India Pvt. Ltd.	0	480	480
359	Vayutel Technology Services Pvt Ltd	479	0	479
360	Goodwill Smartlink Pvt. Ltd.	0	475	475
361	NC BROADBAND SERVICES PRIVATE LIMITED	0	472	472
362	MSINFINITY ETHERNET SOLUTIONS PRIVATE LIMITED	471	0	471
363	JBN Online Private Limited.	0	470	470
364	Prompt Infracom Pvt. Ltd.	0	458	458
365	Quick Link Broadband and Services Pvt. Ltd.	0	457	457
366	OPTO Communications Private Limited	0	456	456
367	ARJUN BROADBAND PRIVATE LIMITED	0	453	453
368	Tamana Winet Pvt. Ltd.	0	452	452
369	JMD Internet and Services Pvt. Ltd.	0	450	450
370	Zoram Internet Provider Pvt. Ltd.	330	120	450
371	BPS COMMUNICATION AND SERVICES PRIVATE LIMITED	0	448	448
372	Breitband Technologies Private Limited	0	438	438
373	Digital Telco Network India Pvt Ltd	0	433	433
374	Airwaves Internet Pvt. Ltd.	0	423	423
375	Earthlink Broadband Pvt Ltd	0	420	420
376	Sysnet Broadband Services Pvt. Ltd.	0	417	417
377	Moradabad Internet Services Pvt. Ltd.	0	416	416
378	GOMTESH INFOTECH PVT. LTD.	0	414	414
379	Nandita Infocom Pvt. Ltd.	0	414	414
380	TRACKNET SERVICES PVT LTD	0	413	413
381	Rocketwire Internet Solutions Pvt. Ltd.	0	411	411
382	SIDDIQUI GLOBAL SERVICES PVT LTD	0	411	411
383	Mall & Mall Digiworld Pvt Ltd	0	402	402
384	Voxterria Innovtions Pvt Ltd	143	257	400
385	Pulse Telesystems Pvt. Ltd.	0	392	392
386	Visputes Internet Pvt. Ltd.	0	383	383
387	VORRUCKEN NETWORKS PRIVATE LIMITED	0	382	382
388	DMDS SOLUTIONS PRIVATE LIMITED	0	379	379
389	Starlings Wireless Communications Pvt. Ltd.	0	377	377
390	Cybernet Introtech Pvt Ltd	0	375	375
391	Citylink Broadband Services Pvt. Ltd.	0	370	370
392	KKM Broadband Internet Pvt. Ltd.	0	370	370
393	Starnet Global Pvt. Ltd.	0	370	370
394	Speedster Communication Pvt Ltd	0	362	362
395	Elecon Information Technology Limited	0	361	361

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
396	DIGISCOPE NETWORKS PRIVATE LIMITED	0	360	360
397	Sify Technologies Ltd.	187	170	357
398	Peer Networks Private Limited	0	353	353
399	Barani Data Solutions Private Limited	120	232	352
400	NAS Broadband Pvt. Ltd	132	216	348
401	Genisys Communication Private Limited	346	0	346
402	BSL Technologies Private Limited	0	338	338
403	Malang Solutions Pvt. Ltd.	7	330	337
404	EYE FASTNET SERVICE PRIVATE LIMITED	168	168	336
405	Oistel Telecom Pvt. Ltd.	166	166	332
406	Sai Akshay Internet Services Pvt Ltd.	0	332	332
407	WAVETREE NETWORKS PVT LTD	0	331	331
408	Chaitali Communication (OPC) Pvt. Ltd.	0	330	330
409	LINKIO FIBERNET PRIVATE LIMITED	0	330	330
410	Twincity Communication Private Limited	0	325	325
411	Ashoka Netsol Pvt. Ltd.	0	311	311
412	TRIVNET NETWORKS PRIVATE LIMITED	0	304	304
413	STN Communication & Advertising Pvt Ltd.	0	301	301
414	Apex Netcom India Pvt. Ltd..	0	300	300
415	BHORER ALO CABLE AND BROADBAND PRIVATE LIMITED	0	300	300
416	Development Logics Solutions Pvt. Ltd.	0	298	298
417	Aayu Infonet Pvt. Ltd.	0	297	297
418	VERYS INFOTECH PRIVATE LIMITED	0	295	295
419	SHEEN TELECOM CONSULTANTS PVT LTD	0	292	292
420	Neton Icom Pvt. Ltd.	0	290	290
421	Sense Connect IT Pvt. Ltd.	54	234	288
422	Vardaan Netservices Pvt. Ltd.	0	284	284
423	Nanjil Internet Services Pvt. Ltd.	0	280	280
424	PRONET PRIVATE LIMITED	0	278	278
425	LIGHT AIR TRANSMISSION PVT. LTD.	138	138	276
426	Suncity Broadband Pvt Ltd.	0	275	275
427	S.V.C CABLE NET PRIVATE LIMITED	0	273	273
428	HELM CONSULTANTS PVT LTD	82	190	272
429	J-Link Infotainment Pvt. Ltd.	0	270	270
430	RUSH ME BROADBAND PRIVATE LIMITED	0	269	269
431	Kataria Net Solutions Pvt. Ltd.	0	266	266
432	AUSPICE INFRATAL PVT LTD	0	265	265
433	WAY2AIR NET SOLUTION PVT. LTD.	0	265	265
434	SATH Technologies Pvt Ltd	132	132	264
435	INTERJET INDIA PRIVATE LIMITED	0	262	262

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
436	Texas Connect Private Limited	0	261	261
437	Proline Datatech Service Pvt Ltd	0	260	260
438	Singh Internet Services Pvt. Ltd.	0	260	260
439	VIZCON DIGITAL PVT LTD	260	0	260
440	Cityline Networks Pvt Ltd	0	251	251
441	Microsense Pvt. Ltd.	0	246	246
442	SmartLink Broadband Services	0	246	246
443	Faconet Internet Pvt Ltd	0	245	245
444	SNT BROADBAND PRIVATE LIMITED	0	245	245
445	Skyhunt IT Park Pvt. Ltd.	9	235	244
446	I-Infolink Networks Pvt. Ltd.	0	243	243
447	AEROLINK BROADBAND PRIVATE LIMITED	0	238	238
448	HIPOINT CONNECT PRIVATE LIMITED	0	237	237
449	iBus Network & Infrastructure (P) Ltd.	0	235	235
450	Data Ingenious Global Ltd	232	2	234
451	Shreepad Communications Pvt Ltd.	0	229	229
452	Hipath Netcom Services Pvt. Ltd.	0	228	228
453	Khetan Cable Network (P) Ltd	0	228	228
454	Magnuss Broadband Service Pvt. Ltd.	0	228	228
455	VMO BROADBAND PVT LTD	45	180	225
456	VIVEK NETWORK PRIVATE LIMITED	0	224	224
457	CONSAM TELECOM PRIVATE LIMITED	0	222	222
458	Rmax Broadband Pvt. Ltd.	0	222	222
459	GIGANET DIGITAL NET SERVICES PRIVATE LIMITED	0	221	221
460	Zoram Infonet Pvt. Ltd.	0	220	220
461	ACEBROWSE PVT LTD	0	219	219
462	AIRTECHZONE SERVICES INDIA PRIVATE LIMITED	0	219	219
463	CIT SOLUTIONS PVT. LTD.	0	217	217
464	Yuvaa Communications Private Limited	0	209	209
465	Saibaba Broadband Pvt. Ltd.	0	206	206
466	Ishani Broadband Pvt Ltd	0	200	200
467	ANTARIKSH BROADBAND & WIRELESS SOLUTIONS PVT LTD	0	199	199
468	Vrednus Network Pvt. Ltd.	0	196	196
469	7 Sai Net Solutions Pvt. Ltd.	0	194	194
470	Costel Networks Pvt. Ltd.	27	167	194
471	FABNET SERVICES PVT. LTD.	0	194	194
472	AT&T Global Network Services India Private Limited	0	193	193
473	Netrexo Communications Pvt. Ltd.	0	191	191
474	Frontier Infra Communications(P) Ltd.	0	187	187

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
475	Wi5 Internet Services P Ltd	0	183	183
476	Dhadam Hospitality & Services Pvt. Ltd.	182	0	182
477	Achiever Communication and Services Pvt. Ltd.	0	174	174
478	Noob Technologies Pvt.Ltd	0	172	172
479	Rae Internet Service Provider Pvt Ltd	0	171	171
480	White Stallion Networks Pvt. Ltd.	0	169	169
481	Optisky Fibernet Pvt. Ltd.	0	168	168
482	Fibernetisp Pvt. Ltd.	0	164	164
483	Mana Broadband Pvt. Ltd.	0	163	163
484	Pune Teleinfra Pvt. Ltd.	0	161	161
485	Manas Internet Technology Private Limited	0	160	160
486	Veer Point Pvt. Ltd.	0	158	158
487	S A Internet Solution Pvt Ltd	0	152	152
488	NEXTGEN COMPUSOFT PVT LTD	0	151	151
489	Prateek Netconnect Pvt. Ltd	0	150	150
490	PR SHREE NETWORKS PRIVATE LIMITED	0	146	146
491	Shree Siddhivinayak Cable And Internet Service Provider Private Limited	146	0	146
492	AIRMAX INTERNET PVT LTD	137	6	143
493	Sri Ram Broadband Services Private Limited	0	143	143
494	Vishwakarma Broadband Private Limited	0	143	143
495	Aeroway Networks Pvt Ltd	0	140	140
496	Jaybhole Cable Vision Private Limited	0	136	136
497	Airfiber IT Solutions Pvt Ltd	0	132	132
498	Galvin Broadband (OPC) Pvt. Ltd.	0	130	130
499	Triple Link Pvt. Ltd.	5	125	130
500	PMG Networks Pvt Ltd	0	128	128
501	A-Net Communication India Pvt.Ltd.	4	123	127
502	MLC INTERNET PVT LTD	0	126	126
503	Japra Tele Link Pvt. Ltd.	0	125	125
504	Linkup Networks Pvt. Ltd.	0	125	125
505	Mediatech Communication Pvt. Ltd.	0	125	125
506	Micronova Telesystems Pvt Ltd	0	120	120
507	Levotel Bignet Solutions Private Limited	0	118	118
508	ST Network Solutions Pvt. Ltd.	0	118	118
509	V NET NETWORKS PVT. LTD	0	118	118
510	Sharktel Infocom Pvt. Ltd.	0	116	116
511	Pronoc Technologies Pvt. Ltd.	0	107	107
512	Linkuniverse Communication Private Limited	0	105	105
513	AxomNet Broadband Pvt. Ltd.	0	104	104
514	Alien DNS Private Limited	0	103	103



<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
515	Telstra Telecommunications Pvt. Ltd.	0	103	103
516	ROYAL WIRELESS SERVICES PVT LTD	0	102	102
517	Invensys Networks Pvt.Ltd.	0	101	101
518	Flix Broadband Services Private Limited	0	99	99
519	NT CYBRONET PRIVATE LIMITED	0	96	96
520	Cheetah Networks Pvt. Ltd.	0	94	94
521	Magica Networking Solutions Pvt. Ltd.	0	94	94
522	Omkar Net Services Pvt. Ltd.	0	94	94
523	M-TEL Networks (P) Ltd	0	93	93
524	Satpar Infotech Pvt Ltd	0	93	93
525	Clicknet Communication Pvt. Ltd.	90	0	90
526	INFINITY WIRELESS SERVICES PVT. LTD.	0	89	89
527	Wireline solution India Pvt Ltd	0	88	88
528	YNET TELECOM SOLUTIONS PVT. LTD.	0	87	87
529	CINFOGEN PRIVATE LIMITED	0	85	85
530	GigHz IT Solutions Pvt Ltd	0	85	85
531	NR IT Service Pvt. Ltd.	0	85	85
532	ARP INFONET PVT. LTD.	0	84	84
533	DURGA BROADBAND PRIVATE LIMITED	0	83	83
534	Aspire Broadband Pvt. Ltd.	21	60	81
535	Wifi Inter-connect Pvt. Ltd.	0	81	81
536	G-Max IT Services Pvt. Ltd.	0	80	80
537	NR Data Service Pvt Ltd.	0	80	80
538	Yotta Network Services Private Limied	0	80	80
539	Shri Vinayagaa Internet Pvt Ltd	0	74	74
540	Jetato Skynet Services Pvt. Ltd.	0	72	72
541	Ezeenet Internet Solutions Pvt. Ltd.	0	71	71
542	SMPL Networks Pvt. Ltd.	45	26	71
543	Blueweb BroadbandServices Pvt. Ltd.	0	70	70
544	JAI MATA DI TELETRONIX PVT LTD	0	70	70
545	Highnet Broadband & Technologies Pvt. Ltd.	0	66	66
546	Divine Broadband Services Pvt Ltd	0	65	65
547	MALACHANDRA BROADBAND SERVICES PRIVATE LIMITED	0	65	65
548	Netwire Internet Solution Pvt Ltd.	0	64	64
549	Datamax Technologies Pvt Ltd	0	63	63
550	Vidarbha Wi-Fi & Network Services Pvt. Ltd.	0	62	62
551	Sanavi Infotech (OPC) Pvt. Ltd.	0	61	61
552	ANODIC TELENETWORK PRIVATE LIMITED	46	14	60
553	Broadstar Net India Pvt. Ltd.	0	60	60
554	Fibernet Solutions (OPC) Pvt. Ltd.	50	10	60

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
555	Kim Broadband Services Pvt Ltd	0	60	60
556	MABA SAFENET BROADBAND SERVICES PVT LTD	0	60	60
557	Winet Infratel Pvt. Ltd.	30	30	60
558	ASVISH TECHNOLOGY PARTNER (OPC) PVT LTD	0	58	58
559	Delix Net Solutions Private Limited	0	58	58
560	Ekdant Communication Pvt Ltd	0	58	58
561	Hansin IT Services Pvt. Ltd.	0	58	58
562	IndrayaniCommunication Pvt. Ltd	0	57	57
563	Infiber Broadnet Pvt. Ltd.	0	56	56
564	Bloglytics Internet Pvt.Ltd	0	54	54
565	Mesh Infranet Pvt. Ltd.	0	52	52
566	Cloudinsta24 Services Private Limited	0	46	46
567	Aamak Network Pvt Ltd.	0	45	45
568	SHIVRAJ BROADBAND INTERNET PVT. LTD.	0	45	45
569	SAMVAD TELECOM PVT LTD	0	43	43
570	Software Technology Parks of India	0	41	41
571	Streamax Broadband Services Pvt. Ltd	0	41	41
572	Edge Telecommunications Pvt. Ltd.	0	40	40
573	Gaxiom Networking Solutions Private Limited	0	40	40
574	Gigalo Communication Pvt. Ltd.	34	6	40
575	ERNET India	22	17	39
576	SPEEDNET INFORMEDIA PVT LTD	0	39	39
577	Tarantula WebNetworks Pvt. Ltd.	0	34	34
578	Jmohit Cable Vision Pvt. Ltd.	0	33	33
579	SKYNETZONE WIFI SERVICES PVT LTD	0	33	33
580	Promptnet Broadband Pvt. Ltd.	0	32	32
581	Bajpai Telecom Pvt. Ltd.	0	30	30
582	RAJNET Care Private Limited	0	28	28
583	Praveen Telecom Pvt. Ltd.	0	27	27
584	WE INTERNET LIMITED	0	27	27
585	Spacetrade Internet Pvt Ltd	0	26	26
586	ULTRAWAVE INTERNET ACCESS PVT LTD	8	18	26
587	Samruddhi Communication Pvt. Ltd.	0	25	25
588	Sudhana Telecommunication Pvt Ltd.	0	25	25
589	Orange Business Services India Network Pvt. Ltd.	0	23	23
590	Pacific Internet India Pvt. Ltd.	0	23	23
591	Smartware Technologies Pvt. Ltd.	0	22	22
592	DRONAGIRI INFOTECH PVT LTD	0	21	21
593	Pintwire Infomatics Pvt. Ltd.	0	21	21

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
594	ME MEXTRA BROADNET PRIVATE LIMITED	0	20	20
595	FASTHOOK NETWORKS PVT LTD	0	18	18
596	Fibmesh IN Limited	0	18	18
597	Sun Broadband and Data Services PVT. LTD.	0	18	18
598	Marutham Networks Pvt. Ltd.	0	16	16
599	Passcom Systems and Services Pvt. Ltd.	0	16	16
600	Angrow Netcomm Pvt. Ltd.	0	15	15
601	IKRA Broadband Private Limited	0	15	15
602	Microtel Internet Network Pvt. Ltd.	0	15	15
603	Nelco Ltd.	14	0	14
604	FASTJET TELECOM PRIVATE LIMITED	0	13	13
605	Hienet Internet Services Pvt. Ltd.	0	10	10
606	Ceralink Communication Pvt Ltd	9	0	9
607	A TO Z INFOLINK PVT. LTD.	0	8	8
608	RIYAZ INTERNET SERVICES PRIVATE LIMITED	0	8	8
609	Tatanet Services Ltd	0	8	8
610	VISHVA INFRATEL PRIVATE LIMITED	0	8	8
611	Airlink Broadband Pvt Ltd	0	7	7
612	CIFY IT Services Pvt. Ltd.	0	7	7
613	Clear Beam Communication Pvt. Ltd.	0	7	7
614	Financial Technologies Communications Ltd.	0	7	7
615	Guru Netcom Pvt. Ltd.	0	7	7
616	Nivid Telecom India Private Limited	0	7	7
617	ADS Royalnet Communication Private Limited	0	6	6
618	Upnet Communications Pvt. Ltd.	0	6	6
619	Uttradoon Networks Pvt. Ltd.	2	4	6
620	FLYFAST CONNECTIONS Pvt. LTD	4	1	5
621	Mastek Infosystems OPC Pvt. Ltd.	0	5	5
622	UBERCORE DATA LABS PVT LTD	0	5	5
623	Cloud8in Technologies Private Limited	0	4	4
624	Cloudcast Digital Ltd	0	4	4
625	ESTO MEDIA PRIVATE LIMITED	0	4	4
626	PHONIX BROADBAND PRIVATE LIMITED	0	4	4
627	Sabse Internet Service Provider Pvt. Ltd.	2	2	4
628	AGILE NETLINK PRIVATE LIMITED	0	3	3
629	Aristo Telenet Pvt Ltd	0	3	3
630	Critel Technologies Pvt Ltd	0	3	3
631	Hybrid Hash Pvt. Ltd.	3	0	3
632	Kartik Network Pvt. Ltd.	3	0	3
633	ZAPTIC PVT. LTD.	0	3	3

<b>S.No.</b>	<b>Name of the Service Provider</b>	<b>Narrowband</b>	<b>Broadband</b>	<b>Total</b>
634	AMBITION NETWORK SOLUTIONS INDIA PRIVATE LIMITED	0	2	2
635	ESP Fibernet Pvt. Ltd.	0	2	2
636	SMS ELAB PRIVATE LIMITED	2	0	2
637	SPARKLIGHT INTERNET PRIVATE LIMITED	0	2	2
638	Bombay Gas Company Proprietary Private Limited	0	1	1
639	Sahiba Silk Mills Pvt. Ltd.	0	1	1
	<b>Total</b>	<b>37210573</b>	<b>792091226</b>	<b>829301799</b>
	<b>Total (in million)</b>	<b>37.21</b>	<b>792.09</b>	<b>829.30</b>

Note: Some wireless service providers exclude incidental data users from their subscriber base, based on minimum usage decided by them.

**Annexure 1.6****List of Service Providers which reported IP Telephony Minutes  
as on 31.12.2021**

<b>S. No.</b>	<b>Name of Service Providers which reported IP Telephony Minutes</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 1.7: Service Area wise PMRTS subscriber Base**

SNo.	Operative Area	Service Provider	Subscriber Base	
			31.12.2020	31.12.2021
1	Delhi(Faridabad/ Gurgaon)	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,715	6,818
		Procall(Delhi)	2,988	3,051
		<b>Total</b>	<b>10,703</b>	<b>9,869</b>
2	Mumbai (Navi Mumbai)	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	8,886	495
		Smartalk (Mumbai)	816	8,947
		Bhilwara Telenet(Mumbai)	864	872
		Airtalk Solutions & Services Pvt. Ltd	413	861
		<b>Total</b>	<b>10,997</b>	<b>11,175</b>
3	Kolkata	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	<b>1743</b>	<b>1765</b>
4	TN (Chennai)	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,655	7,593
		Quick Calls	487	502
		<b>Total</b>	<b>8,142</b>	<b>8,095</b>
5	Karnataka (Bangalore)	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7195	7,289
		Quick Calls	532	486
		<b>Total</b>	<b>7,727</b>	<b>7,775</b>
6	Andhra Pradesh (Vishakhapatnam & Hyderabad)	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	6671	6807
		Quick Calls (Hyderabad Urban)	1010	1038
		<b>Total</b>	<b>7,681</b>	<b>7,845</b>
7	Madhya Pradesh (Indore)	Arya Omnitalk Radio Trunking Services Pvt. Ltd.	<b>1,646</b>	<b>1611</b>

**Annexure- 1.7 (Contd.)**

SNo.	Operative Area	Service Provider	Subscriber Base	
			31.12.2020	31.12.2021
8	Rajasthan (Jaipur)	Procall	381	798
		Arya Omnitalk Radio Trunking Services Pvt.Ltd.	890	424
		<b>Total</b>	<b>1,271</b>	<b>1,222</b>
9	Gujarat (Ahmedaba/Surat/Vadodara/ Bharuch/Dahej/ Kutch/Amrela / Jamnagar)	Arya Omnitalk Radio Trunking Services Pvt.Ltd. (Ahmedaba/Surat/Vadodara/ Bharuch/Dahej)	7,056	7,580
		Inative Network Pvt. Ltd. (Ahmedaba/Surat/Vadodara/ Bharuch/ Kutch/Amrela / Jamnagar)	1820	1820
		<b>Total</b>	<b>8,876</b>	<b>9,400</b>
10	Maharashtra (Pune)	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	2025	2,065
		Smartalk	670	717
		<b>Total</b>	<b>2,695</b>	<b>2,782</b>
11	Kerala (Cochin City & Quilon)	Wiwonet Solutions Pvt. Ltd.	690	1,021
		Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1034	857
		<b>Total</b>	<b>1,724</b>	<b>1,878</b>
<b>Grand Total</b>			<b>63,205</b>	<b>63,417</b>

## Annexure 5.1

### List of pay channels, offered by broadcasters to subscribers, as reported to TRAI (New Regulatory Framework) - as on 31<sup>st</sup> December 2021)

S.No	Name of the broadcaster	S. No	Name of the channel	Declared as SD or HD
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		



<b>S.No</b>	<b>Name of the broadcaster</b>	<b>S. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		28	MNX	SD
		29	Times Now World	HD
6	Celebrities Management Pvt Limited	30	Travel XP HD	HD
		31	Travel XP Tamil	SD
7	CSL Info Media Private Limited	32	JAN TV PLUS	SD
8	Direct New Private Limited	33	News X	SD
9	Discovery Communications India	34	Animal Planet	SD
		35	Discovery Channel	SD
		36	DTAMIL	SD
		37	Discovery Kids Channel	SD
		38	Discovery Science	SD
		39	Discovery Turbo	SD
		40	Investigation Discovery	SD
		41	Discovery HD	HD
		42	Animal Planet HD World	HD
		43	TLC HD	HD
		44	Investigation Discovery HD	HD
		45	TLC	SD
		46	EUROSPORT HD (Earlier name "Dsport HD")	HD
		47	EUROSPORT (Earlier name "Dsport")	SD
10	Disney Broadcasting (India) Limited	48	Disney Junior	SD
		49	UTV Movies	SD
		50	Marvel HQ	SD
		51	Disney International HD	HD
		52	Hungama TV	SD
		53	The Disney Channel	SD
		54	UTV HD	HD
		55	UTV Bindass	SD
		56	UTV Action	SD
11	Eenadu Televisoin Private	57	ETV	SD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>S. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
	Limited	58	ETV Andhra Pradesh	SD
		59	ETV - Telangana	SD
		60	ETV Cinema	SD
		61	ETV Life	SD
		62	ETV Plus	SD
		63	ETV Abhiruchi	SD
		64	ETV HD	HD
		65	ETV Plus HD	HD
		66	ETV Cinema HD	HD
		67	ETV Balbharat Telugu	SD
		68	ETV Balbharat Hindi	SD
		69	ETV Balbharat Punjabi	SD
		70	ETV Balbharat Marathi	SD
		71	ETV Balbharat Gujarathi	SD
		72	ETV Balbharat kannada	SD
		73	ETV Balbharat Malayalam	SD
		74	ETV Balbharat Tamil	SD
		75	ETV Balbharat Bangla	SD
		76	ETV Balbharat Odia	SD
		77	ETV Balbharat Assamese	SD
		78	ETV Balbharat English	SD
		79	ETV Balbharat HD	HD
		80	ETV Balbharat SD	SD
12	IN 10 Media Private Limited	81	EPIC TV	SD
		82	Filamchi	SD
		83	Gubbare	SD
		84	Showbox	SD
		85	Ishara TV	SD
13	Information TV Private Limited	86	India News	SD
14	Fame Media Private Limited	87	4tv News	SD
15	Greycells18 Media Limited	88	Topper TV	SD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>S. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
16	IBN Lokmat News Private Ltd	89	News 18 Lokmat	SD
17	Living Entertainment Enterprises Private Ltd	90	ZEE ZEST HD	HD
		91	LF HD	HD
18	Lifestyle and Media Broadcasting Limited	92	Good Times	SD
19	Lex Sportel Vision Private Limited	93	1SPORTS	SD
20	Mavis Satcom Limited	94	J Movies	SD
		95	Jaya Max	SD
		96	Jaya Plus	SD
		97	Jaya TV HD	HD
21	MSM World Wide Factual Media Private Limited	98	SONY BBC EARTH	SD
		99	SONY BBC EARTH HD	HD
22	Media World Wide Limited	100	Travel XP	SD
23	New Delhi Television Limited	101	NDTV 24*7	SD
		102	NDTV India	SD
		103	NDTV Profit	SD
24	NGC Network (India) Pvt Limited	104	Fox Life	SD
		105	National Geographic Channel (NGC)	SD
		106	Fox Life HD	HD
		107	Nat Geo Wild	SD
		108	National Geographic HD	HD
		109	Nat Geo Wild HD	HD
		110	Baby TV HD	HD
25	Odisha Television Limited	111	Prarthana	SD
		112	Tarang	SD
		113	Tarang Music	SD
		114	Alankar	SD
26	Parshavnath Media Private Limited	115	Dangal Kannada	SD
27	Raj Television Network Limited	116	Raj Digital Plus	SD
		117	Raj Musix	SD
		118	Raj News	SD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>S. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		119	Raj TV	SD
28	Silverstar Communications Limited	120	Mega 24	SD
		121	Mega Musiq	SD
		122	Mega TV	SD
29	Sony Pictures Networks India Private Limited	123	Sony YAY!	SD
		124	SET MAX	SD
		125	SAB	SD
		126	SONY ENTERTAINMENT CHANNEL (SET)	SD
		127	PIX	SD
		128	SIX	SD
		129	MAX 2	SD
		130	PAL	SD
		131	SET HD	HD
		132	SIX HD	HD
		133	PIX HD	HD
		134	MAX HD	HD
		135	Ten 2 HD	HD
		136	Ten 3 HD	HD
		137	Ten 2	SD
		138	Ten 1	SD
		139	Ten 3	SD
140	Ten 1 HD	HD		
141	SONY Wah	SD		
142	SAB HD	HD		
143	Ten 4	SD		
144	Ten 4 HD	HD		
30	Star India Private Limited	145	Star Sports 3	SD
		146	Star Sports 1 Tamil	SD
		147	Star Sports Select 2	SD
		148	Star Bharat	SD
		149	Star Gold 2 (Movies OK)	SD

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

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

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>S. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		213	Kochu TV	SD
		214	Sun TV HD	HD
		215	KTV HD	HD
		216	Sun Music HD	HD
		217	Gemini TV HD	HD
		218	Gemini Music HD	HD
		219	Gemini Movies HD	HD
		220	Surya TV HD	HD
		221	Udaya TV HD	HD
32	Suryansh Broadcasting Private Limited	222	Flowers	SD
33	Turner International India Pvt Ltd	223	Cartoon Network	SD
		224	CNN International	SD
		225	POGO	SD
		226	Cartoon Network HD+	HD
34	TV 18 Broadcast Limited	227	CNN News 18	SD
		228	CNBC Bazaar	SD
		229	CNBC TV 18 Prime HD	HD
		230	CNBC Awaaz	SD
		231	News 18 Tamil Nadu	SD
		232	News 18 Kerala	SD
		233	News 18 Assam / North East	SD
		234	News 18 India	SD
		235	CNBC TV 18	SD
		236	News 18 Bihar Jharkhand	SD
		237	News 18 Madhya Pradesh / Chattisgarh	SD
		238	News 18 Rajasthan	SD
		239	News 18 Uttar Pradesh/ Uttaranchal	SD
		240	News 18 Urdu	SD
241	News 18 Kannada	SD		
242	News 18 Bangla	SD		

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>S. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		243	News 18 Punjab / Haryana / Himanchal Pradesh	SD
		244	News 18 Gujarati	SD
		245	News 18 Odia	SD
35	TV Today Network Limited	246	Aaj Tak	SD
		247	India Today	SD
		248	AAJ Tak HD	HD
		249	Aaj Tak Tez	SD
36	Viacom 18 Media Private Limited	250	Colors	SD
		251	Comedy Central (HD )	HD
		252	MTV	SD
		253	NICK	SD
		254	NICK JR	SD
		255	SONIC	SD
		256	VH 1 (HD Distribution)	HD
		257	Colors Infinity HD	HD
		258	Colors Infinity	SD
		259	Colors HD	HD
		260	NICKS HD+	HD
		261	Colors Cineplex	SD
		262	MTV Beats	SD
		263	Colors Kannada HD	HD
		264	Colors Marathi HD	HD
		265	Colors Bangla HD	HD
		266	Colors Super	SD
		267	Colors Bangla	SD
		268	Colors Gujarati	SD
		269	Colors Kannada	SD
		270	Colors Marathi	SD
		271	Colors Oriya	SD
		272	MTV Beats HD	HD
		273	Colors Tamil	SD



<b>S.No</b>	<b>Name of the broadcaster</b>	<b>S. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		274	Colors Cineplex HD	HD
		275	VH 1	SD
		276	Colors Tamil HD	HD
		277	MTV HD+	HD
		278	Colors Rishtey	SD
		279	Colors Kannada Cinema	SD
		280	Colors Gujarati Cinema	SD
		281	Comedy Central	SD
		282	Rishtey Cineplex	SD
		283	Colors Bangla Cinema	SD
37	Zee Akaash News Private Limited	284	Zee 24 Ghanta	SD
38	Zee Entertainment Enterprises Limited	285	Zee Bollywood	SD
		286	Zee Action	SD
		287	Zee Bangla Cinema	SD
		288	Zee Café HD	HD
		289	Zee Café	SD
		290	Zee Cinema	SD
		291	Zee Talkies	SD
		292	Zee TV	SD
		293	Zing	SD
		294	& Picture	SD
		295	Zee Bangla	SD
		296	Zee Marathi	SD
		297	Zee Zest	SD
		298	Zee TV HD	HD
		299	Zee Cinema HD	HD
		300	& TV	SD
		301	& TV HD	HD
		302	Zee Kannada	SD
		303	Zee Telugu	SD
		304	& Pictures HD	HD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>S. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		305	Zee Cinemalu	SD
		306	Zee Yuva	SD
		307	Zee Marathi HD	HD
		308	& Prive HD	HD
		309	Zee Bangla HD	HD
		310	Zee Tamil HD	HD
		311	Zee Cinemalu HD	HD
		312	Zee Telugu HD	HD
		313	Zee Tamil	SD
		314	Zee Kannada HD	HD
		315	Zee Anmol Cinema	SD
		316	& Flix HD	HD
		317	& Flix	SD
		318	Zee Keralam HD	HD
		319	Zee Keralam	SD
		320	Zee Vajwa	SD
		321	Zee Anmol	SD
		322	Big Magic	SD
		323	Big Ganga	SD
		324	Zee Classic	SD
		325	&Xplore HD	HD
		326	ZEE Sarthak	SD
		327	Zee Talkies HD	HD
		328	Zee Punjabi	SD
		329	Zee Thirai	SD
		330	Zee Picchar	SD
		331	Zee Thirai HD	HD
		332	Zee Picchar HD	HD
		333	Zee Biskope	SD
39	Zee Media Corporation Limited	334	Zee 24 Taas	SD
		335	Zee Odisha	SD
		336	Zee Business	SD

<b>S.No</b>	<b>Name of the broadcaster</b>	<b>S. No</b>	<b>Name of the channel</b>	<b>Declared as SD or HD</b>
		337	Zee Punjab Haryana Himachal	SD
		338	Zee Madhya Pradesh Chattisgarh	SD
		339	Zee Salaam	SD
		340	Zee 24 Kalak	SD
		341	WION	SD
		342	Zee Uttar Pradesh Uttrakhand	SD
		343	Zee Hindustan	SD
		344	Zee Bihar Jharkhand	SD
		345	Zee News	SD
		346	Zee Rajasthan News	SD
40	Zoom Entertainment Network Limited	347	Movies Now	SD
41	Sidharth Broadcasting Private Limited	348	Sidharth TV	SD
42	Sathak Music Private Limited	349	Sidharth Bhakti	SD
		350	Sidharth Gold	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,  
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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.den networks.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

**List of Pay DTH Operators**

- 1. M/s. Tata Sky Ltd.,**  
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

**Annexure 5.4****List of 105 existing cities with operational FM Radio Channels in India  
as on 31<sup>st</sup> December, 2021**

<b>S. No.</b>	<b>City</b>	<b>Category</b>	<b>Stations</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
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
64	Kozhikode	C	4
65	Lucknow	A	6
66	Leh	Others	1
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
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>386</b>

*Source: As reported by Private FM Radio Service Providers to TRAI*

## **Disclaimer**

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