



Telecom Regulatory Authority of India

The Indian Telecom Services Performance Indicators January – March, 2022

New Delhi, India

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Snapshot

(Data as on Q.E. 31 st March, 2022)	
Telecom Subscribers (Wireless+Wireline)	
Total Subscribers	1,166.93 Million
% change over the previous quarter	-0.97%
Urban Subscribers	647.11 Million
Rural Subscribers	519.82 Million
Market share of Private Operators	89.10%
Market share of PSU Operators	10.90%
Tele-density	84.88%
Urban Tele-density	134.94%
Rural Tele-density	58.07%
Wireless Subscribers	
Total Wireless Subscribers	1,142.09 Million
% change over the previous quarter	-1.08%
Urban Subscribers	624.23 Million
Rural Subscribers	517.86 Million
Market share of Private Operators	89.76%
Market share of PSU Operators	10.24%
Tele-density	83.07%
Urban Tele-density	130.17%
Rural Tele-density	57.85%
Total Wireless Data Usage during the quarter	35,885 PB
Number of Public Mobile Radio Trunk Services (PMRTS)	66,392
Number of Very Small Aperture Terminals (VSAT)	2,79,333
Wireline Subscribers	
Total Wireline Subscribers	24.84 Million
% change over the previous quarter	4.42%
Urban Subscribers	22.88 Million
Rural Subscribers	1.96 Million
Market share of PSU Operators	41.07%
Market share of Private Operators	58.93%
Tele-density	1.81%
Rural Tele-density	0.22%
Urban Tele-density	4.77%
No. of Village Public Telephones (VPT)	68,606
No. of Public Call Office (PCO)	66,154

Telecom Financial Data	
Gross Revenue (GR) during the quarter	Rs.76,387 Crore
% change in GR over the previous quarter	9.60%
Adjusted Gross Revenue (AGR) during the quarter	Rs.58,886 Crore
% change in AGR over the previous quarter	6.77%
Share of Public sector undertakings in Access AGR	4.17%
Internet/Broadband Subscribers	
Total Internet Subscribers	824.89 Million
% change over previous quarter	-0.53%
Narrowband subscribers	36.59 Million
Broadband subscribers	788.30 Million
Wired Internet Subscribers	27.27 Million
Wireless Internet Subscribers	797.61 Million
Urban Internet Subscribers	493.08 Million
Rural Internet Subscribers	331.81 Million
Total Internet Subscribers per 100 population	60
Urban Internet Subscribers per 100 population	102.82
Rural Internet Subscribers per 100 population	37.06
Broadcasting & Cable Services	
Number of private satellite TV channels permitted by the Ministry of I&B for uplinking only/downlinking only/both uplinking and downlinking	898
Number of Pay TV Channels as reported by broadcasters	345
Number of private FM Radio Stations (excluding All India Radio)	386
Number of total active subscribers with pay DTH operators	66.92 Million
Number of Operational Community Radio Stations	349
Number of pay DTH Operators	4
Revenue & Usage Parameters	
Monthly ARPU of Wireless Service	Rs.127.17
Minutes of Usage (MOU) per subscriber per month - Wireless Service	955 Minutes
Total Outgoing Minutes of Usage for Internet Telephony	137.74 Million
Wireless Data Usage	
Average Wireless Data Usage per wireless data subscriber per month	15.80 GB
Average revenue realization per subscriber per GB wireless data during the quarter	Rs.10.47

* For ARPU explanation please refer to footnote on Page 52

Executive Summary

1. The number of telephone subscribers in India decreased from 1,178.41 million at the end of Dec-21 to 1,166.93 million at the end of Mar-22, registering a decline rate of 0.97% over the previous quarter. This reflects Year-On-Year (Y-O-Y) decline rate of 2.85% over the same quarter of the last year. The overall Tele-density in India decreased from 85.91% as in QE Dec-21 to 84.88% as in QE Mar-22.

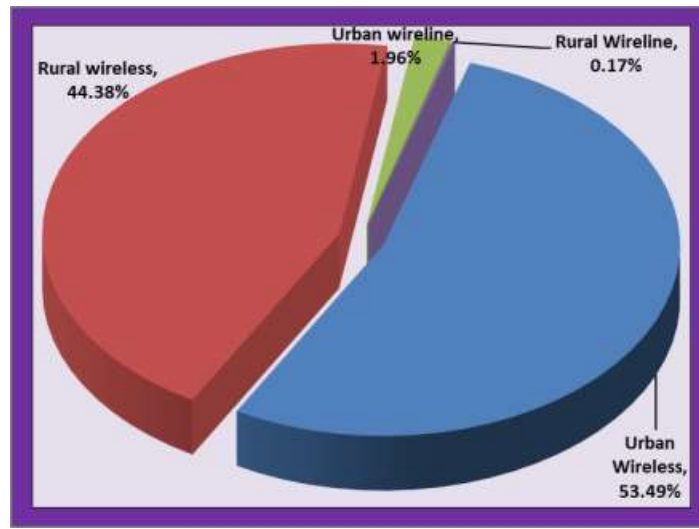
Trends in Telephone subscribers and Tele-density in India



2. Telephone subscribers in Urban areas decreased from 655.20 million at the end of Dec-21 to 647.11 million at the end of Mar-22 and Urban Tele-density also decreased from 137.26% to 134.94% during the same period.
3. Rural telephone subscribers decreased from 523.21 million at the end of Dec-21 to 519.82 million at the end of Mar-22 and Rural Tele-density also decreased from 58.50% to 58.07% during the same period.

4. Out of the total subscription, the share of Rural subscription increased from 44.40% at the end of Dec-21 to 44.55% at the end of Mar-22.

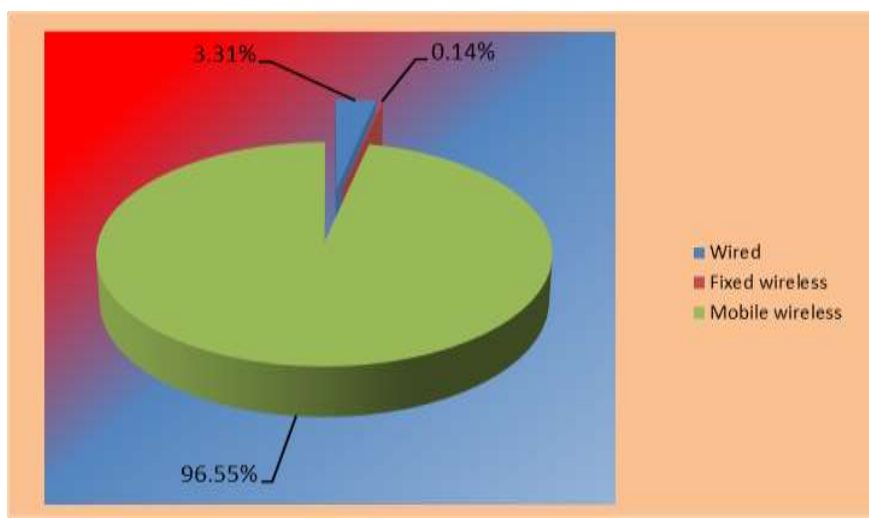
Composition of Telephone Subscribers



5. With a net decrease of 12.53 million subscribers during the quarter, the total wireless subscriber base decreased from 1,154.62 million at the end of Dec-21 to 1,142.09 million at the end of Mar-22, registering a decline rate of 1.08% over the previous quarter. On Y-O-Y basis, wireless subscriptions decreased at the rate of 3.29% during the year.
6. Wireless Tele-density decreased from 84.17% at the end of Dec-21 to 83.07% at the end of Mar-22 with quarterly decline rate of 1.31%.
7. Wireline subscribers increased from 23.79 million at the end of Dec-21 to 24.84 million at the end of Mar-22 with a quarterly growth rate of 4.42% and, on Y-O-Y basis, wireline subscriptions also increased by 22.73% at the end of QE Mar-22.
8. Wireline Tele-density increased from 1.73% at the end of Dec-21 to 1.81% at the end of Mar-22 with quarterly growth rate of 4.19%.

9. Total number of Internet¹ subscribers decreased from 829.30 million at the end of Dec-21 to 824.89 million at the end of Mar-22, registering a quarterly decline rate of 0.53%. Out of 824.89 million internet subscribers, number of Wired Internet subscribers are 27.27 million and number of Wireless Internet subscribers are 797.61 million.

Composition of internet subscription



10. The Internet subscriber base is comprised of Broadband² Internet subscriber base of 788.30 million and Narrowband³ Internet subscriber base of 36.59 million.
11. The broadband Internet subscriber base decreased by 0.48% from 792.08 million at the end of Dec-21 to 788.30 million at the end of Mar-22. The narrowband Internet subscriber base also declined by

¹ Internet: Interconnected global networks that use the internet protocol.

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

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

(Source-ITU)

1.66% from 37.21 million at the end of Dec-21 to 36.59 million at the end of Mar-22.

12. Monthly Average Revenue per User (ARPU)⁴ for wireless service increased by 11.40%, from Rs.114.16 in QE Dec-21 to Rs.127.17 in QE Mar-22. On Y-O-Y basis, monthly ARPU for wireless service increased by 22.77% in this quarter.
13. Prepaid ARPU per month increased from Rs.107.98 in QE Dec-21 to Rs.121.91 in QE Mar-22, however, Postpaid ARPU per month decreased from Rs.210.33 in QE Dec-21 to Rs.200.56 in QE Mar-22.
14. On all India average, the overall Minutes of Usage (MOU)⁵ per subscriber per month for wireless service increased by 11.81% from 854 in QE Dec-21 to 955 in QE Mar-22.
15. Prepaid MOU per subscriber per month increased from 868 in QE Dec-21 to 972 in QE Mar-22. Postpaid MOU per subscriber per month also increased from 638 in QE Dec-21 to 721 in QE Mar-22.
16. Gross Revenue⁶ (GR) and Adjusted Gross Revenue⁷ (AGR) of Telecom Service Sector for the Q.E. Mar-22 has been Rs.76,387/- Crore and

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

⁵ MOU per subscriber per month is calculated by dividing total minutes of usage (incoming & outgoing) by average number of subscribers.

⁶ 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.

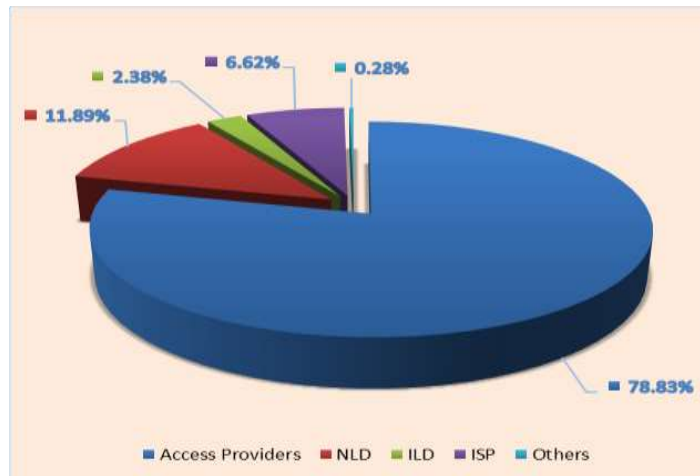
⁷ Adjusted Gross Revenue: The following shall be excluded from the Gross Revenue to arrive at the AGR:

- 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

Rs.58,886/- Crore respectively. GR increased by 9.60% and AGR increased by 6.77% in Q.E. Mar-22, as compared to previous quarter.

17. The Y-O-Y growth in GR and AGR in Q.E. Mar-22 over the same quarter in last year has been 14.38% and 21.20% respectively.
18. Pass-through⁸ charges increased from Rs.14,544 Crore in QE Dec-21 to Rs.17,501 Crore in QE Mar-22 with quarterly growth rate of 20.33%. The Y-O-Y decline rate of 3.82% has been recorded in pass-through charges for QE Mar-22.
19. The License Fee⁹ increased from Rs.4,541 Crore for the QE Dec-21 to Rs.4,712 Crore for the QE Mar-22. The quarterly and the Y-O-Y growth rates of license fee are 3.76% and 18.44% respectively in this quarter.

Service-wise composition of Adjusted Gross Revenue



20. Access services contributed 78.83% of the total Adjusted Gross Revenue of telecom services. In Access services, Gross Revenue (GR),

⁸ Pass through charges means the charges excluded from gross revenue to arrive at adjusted gross revenue for the purpose of levying licence fee.

⁹ License Fee means a fee payable by Licensee at prescribed intervals and rates for the period of the Licence.

Adjusted Gross Revenue (AGR), License Fee, Spectrum Usage Charges (SUC)¹⁰ and Pass Through Charges increased by 10.02%, 8.13%, 8.16%, 9.44% and 17.19% respectively in QE Mar-22.

21. The performance of wireline service providers in terms of QoS during the quarter vis-à-vis that in the previous quarter is given below: -

Parameters showing improvement in QoS	Parameters showing deterioration in QoS
<ul style="list-style-type: none"> ❖ % Fault repaired by next working day (for urban areas) ≥ 85% ❖ Mean time to Repair” (MTTR) ≤ 10Hs ❖ Accessibility of call centre/ customer care ≥ 95% ❖ %age of calls answered by the operators (voice to voice) within 90 seconds ≥ 95% ❖ Time taken for refund of deposits after closures 100% within 60 days 	<ul style="list-style-type: none"> ❖ %age of request for Termination / closure of service complied within 7 days 100% within 7 days

22. The performance of Cellular Mobile service providers in terms of Quality of Service (QoS) during the quarter vis-à-vis that in the previous quarter is given as below: -

Parameters showing improvement in QoS	Parameters showing deterioration in QoS
<ul style="list-style-type: none"> ❖ Network QoS DCR Spatial Distribution Measure [Network_ QSD (90,90)] ≤ 2% ❖ Network QoS DCR Temporal Distribution Measure [Network_ QTD (97,90)] ≤ 3% ❖ %age requests for Termination / Closure of service complied within 7 days. 	<ul style="list-style-type: none"> ❖ Accessibility of call centre/ customer care ≥ 95% ❖ %age of calls answered by the operators (voice to voice) within 90 Seconds

¹⁰ Spectrum Usage Charge is payable by the licensees providing mobile access services, as a percentage of their Adjusted Gross Revenue (AGR).

(Source – DoT License Agreement)

23. A total of approximately 898 private satellite TV channels have been permitted by the Ministry of Information and Broadcasting (MIB) for uplinking only/ downlinking only / both uplinking & downlinking.
24. As per the reporting done by broadcasters in pursuance of the Tariff Order dated 3rd March 2017 as amended, out of 885 permitted satellite TV channels which are available for downlinking in India, there are 345 satellite pay TV channels as on 31st March 2022. Out of 345 pay channels, 248 are SD satellite pay TV channels and 97 are HD satellite pay TV channels.
25. Since the introduction of DTH Sector in the year 2003, Indian DTH (direct-to-home) services have displayed a phenomenal growth. During the QE 31st March 2022, there were 4 pay DTH service providers in the country.
26. Pay DTH has attained total active subscriber base of around 66.92 million in QE 31st March 2022. This is in addition to the subscribers of the DD Free Dish (free DTH services of Doordarshan).
27. Apart from the radio channels operated by All India Radio – the public broadcaster, as per the data reported by FM Radio operators to TRAI, as on 31st March 2022, there are 386 operational private FM Radio channels in 113 cities operated by 36 private FM Radio operators.
28. The advertisement revenue reported by FM Radio operators during the quarter ending 31st March 2022 in respect of 386 private FM Radio channels is Rs 362.63 crore as against Rs 421.74 crore in respect of 386 private FM Radio channels for the previous quarter i.e. 31st December 2021.
29. As on 31st March 2022, 349 Community Radio Stations are operational in the country.

Trends at a Glance

A. Access Service (Wireline + Wireless)									
	QE Mar 2021	QE Jun 2021	QE Sep 2021	QE Dec 2021	QE Mar 2022	%age change over Mar-2021	%age change over Jun-2021	%age change over Sep-2021	%age change over Dec-2021
						(12 months)	(9 months)	(6 months)	(3 months)
1) Subscriber Base (in million)									
Wireline	20.24	21.74	23.13	23.79	24.84	22.73%	14.28%	7.38%	4.42%
Wireless	1180.96	1180.83	1166.02	1154.62	1142.09	-3.29%	-3.28%	-2.05%	-1.08%
Total	1201.20	1202.57	1189.15	1178.41	1166.93	-2.85%	-2.96%	-1.87%	-0.97%
Rural	537.42	536.47	530.06	523.21	519.82	-3.28%	-3.10%	-1.93%	-0.65%
Urban	663.77	666.10	659.09	655.20	647.11	-2.51%	-2.85%	-1.82%	-1.23%
2) Tele-density									
Wireline	1.49	1.59	1.69	1.73	1.81	21.62%	13.51%	6.90%	4.19%
Wireless	86.68	86.48	85.20	84.17	83.07	-4.16%	-3.94%	-2.49%	-1.31%
Total	88.17	88.07	86.89	85.91	84.88	-3.73%	-3.62%	-2.31%	-1.20%
Rural	60.27	60.10	59.33	58.50	58.07	-3.66%	-3.39%	-2.12%	-0.74%
Urban	141.03	140.86	138.72	137.26	134.94	-4.32%	-4.20%	-2.73%	-1.69%
3) Service Provider wise Subscribers Base (in Million) (wireless+wireline)									
Bharti Airtel	357.17	357.05	359.77	361.35	366.18	2.52%	2.56%	1.78%	1.34%
Vodafone Idea	284.23	273.88	270.56	266.05	261.35	-8.05%	-4.57%	-3.40%	-1.77%
Reliance Jio	426.25	440.59	429.48	421.05	410.17	-3.77%	-6.90%	-4.50%	-2.58%
BSNL	125.28	122.88	121.28	121.95	121.25	-3.21%	-1.33%	-0.03%	-0.57%
MTNL	6.20	6.15	6.07	6.01	5.94	-4.15%	-3.38%	-2.17%	-1.16%
Tata Tele.	1.63	1.61	1.60	1.60	1.60	-1.58%	-0.47%	0.32%	0.22%
Reliance Com.	0.22	0.21	0.20	0.19	0.18	-19.15%	-14.72%	-9.62%	-4.66%
Quadrant	0.22	0.21	0.20	0.21	0.27	23.27%	29.93%	34.13%	26.00%
Total	1201.20	1202.57	1189.15	1178.41	1166.93	-2.85%	-2.96%	-1.87%	-0.97%

B. Internet Services									
	QE Mar 2021	QE Jun 2021	QE Sep 2021	QE Dec 2021	QE Mar 2022	%age change over Mar-2021 (12 months)	%age change over Jun-2021 (9 months)	%age change over Sep-2021 (6 months)	%age change over Dec-2021 (3 months)
1) Subscriber's Base (in million)									
A. Wired Internet Subscribers	26.00	23.58	24.47	26.58	27.27	4.92%	15.69%	11.47%	2.62%
B. Wireless Internet Subscribers	799.31	810.13	809.82	802.72	797.61	-0.21%	-1.55%	-1.51%	-0.64%
i. Mobile Wireless (Mobile & Dongle)	798.63	809.48	808.54	801.58	796.43	-0.28%	-1.61%	-1.50%	-0.64%
ii. Fixed Wireless (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.68	0.66	1.28	1.14	1.18	74.62%	80.14%	-7.65%	3.36%
Total Internet Subscribers	825.30	833.71	834.29	829.30	824.89	-0.05%	-1.06%	-1.13%	-0.53%
2) No. of Internet Subs per 100 Population	60.73	61.06	60.96	60.46	60.00	-1.20%	-1.73%	-1.57%	-0.76%
C. Usage and Revenue for Wireless Services									
Traffic (MOU) (minutes of uses/subscriber/month)	818	813	827	854	955	16.84%	17.54%	15.54%	11.81%
ARPU (Rs./sub/month)	104	105	108	114	127	22.77%	21.51%	17.58%	11.40%
D. Telecom Financial Data									
	QE Mar 2021	QE Jun 2021	QE Sep 2021	QE Dec 2021	QE Mar 2022	%age change over Mar-2021 (12 months)	%age change over Jun-2021 (9 months)	%age change over Sep-2021 (6 months)	%age change over Dec-2021 (3 months)
1. Telecom Sector									
i) Gross Revenue (Rs.in Crores)	66784	64801	67300	69695	76387	14.38%	17.88%	13.50%	9.60%
ii) Adjusted Gross Revenue (Rs. in Crores)	48587	51335	53510	55151	58886	21.20%	14.71%	10.05%	6.77%
2. Access Services									
Adjusted Gross Revenue (Rs. in Crores)	38608	40840	42422	42930	46421	20.24%	13.66%	9.43%	8.13%

Introduction

This Report presents the Key Parameters and growth trends for the Telecom Services in India for the quarter ending 31st March, 2022. It provides a broad perspective on the Telecom Services to serve as a reference document for various stakeholders, research agencies and analysts. Chapter-1 depicts the growth pattern, in terms of Subscriber base and Tele-density of Wireline, Wireless, Internet and Value Added Services (VAS) as well as Wireless Data Usage. Chapter-2 covers the key revenue and usage parameters. Chapter-3 gives the financial and accounting data. Chapter-4 covers performance of various telecom service providers in terms of QoS. The information relating to Cable TV, DTH & Radio Broadcast services is provided in Chapter-5.

2. The Report has been prepared based on the information furnished by the Service Providers. It is also available on TRAI's website (www.trai.gov.in) and under the link <http://www.trai.gov.in/release-publication/reports/performance-indicators-reports>). Any suggestion or any clarification pertaining to this report, Pr. Advisor (F&EA), TRAI may be contacted on Tel. +91-11-23221856, Fax. +91-11-23235249 and e-mail: mptangirala@traigov.in

Chapter 1 :

Subscription Data

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

Section A : Access Service - An Overview

1.1 The number of telephone subscribers in India decreased from 1,178.41 million at the end of December-21 to 1,166.93 million at the end of March-22, registering a decline rate of 0.97% over the previous quarter. This reflects year-on-year (Y-O-Y) decline rate of 2.85% over the same quarter of last year. The overall Tele-density in India decreased from 85.91% as on 31st December, 2021 to 84.88% as on 31st March, 2022 with quarterly decline rate of 1.20%.

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

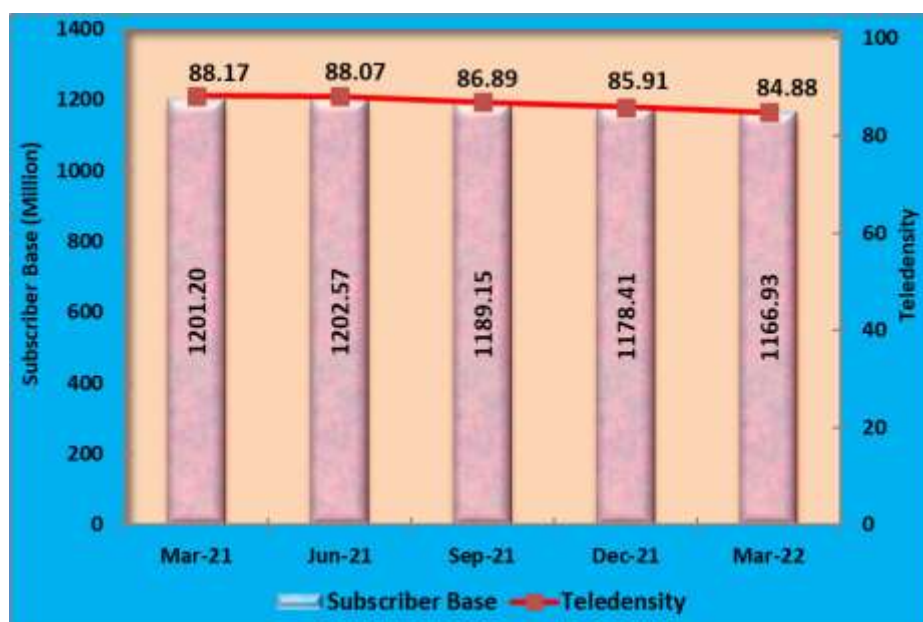
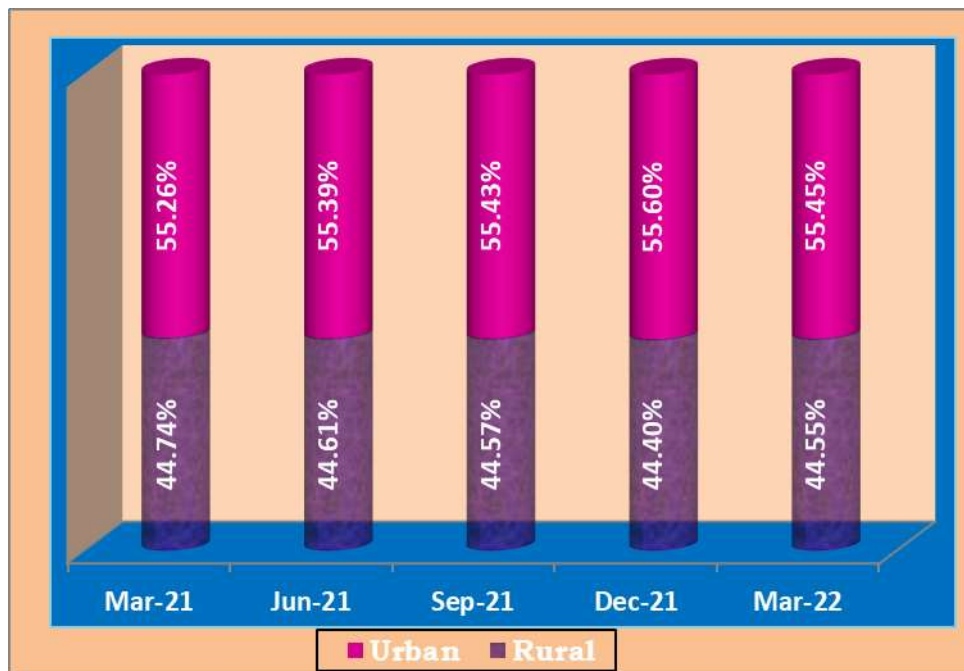


Table 1.1: Subscriber Base & Tele-density - Rural & Urban

Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
Mar-21	537.42	663.77	60.27	141.03
Jun-21	536.47	666.10	60.10	140.86
Sep-21	530.06	659.09	59.33	138.72
Dec-21	523.21	655.20	58.50	137.26
Mar-22	519.82	647.11	58.07	134.94

- 1.2 Telephone subscription in Urban areas decreased from 655.20 million at the end of December-21 to 647.11 million at the end of March-22 and Urban Tele-density also decreased from 137.26% to 134.94% at the end of the quarter.
- 1.3 Rural telephone subscription decreased from 523.21 million at the end of December-21 to 519.82 million at the end of March-22 and Rural Tele-density also decreased from 58.50% to 58.07% at the end of the quarter.
- 1.4 The Y-O-Y decline rates of Urban and Rural telephone subscriptions from March-21 to March-22 are 2.51% and 3.28% respectively. The Y-O-Y decline rates of Urban and Rural Tele-density from March-21 to March-22 are 4.32% and 3.66% respectively.

Chart 1.2: Market Share - Rural & Urban Subscribers



- 1.5 Share of subscriptions of rural areas in the total telephone subscriptions increased from 44.40% at the end of December-21 to 44.55% at the end of March-22.

Chart 1.3: Composition of Access subscription - Wireline & Wireless



1.6 Share of wireline subscription in total telephone subscription increased from 2.02% at the end of December-21 to 2.13% at the end of March-22.

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

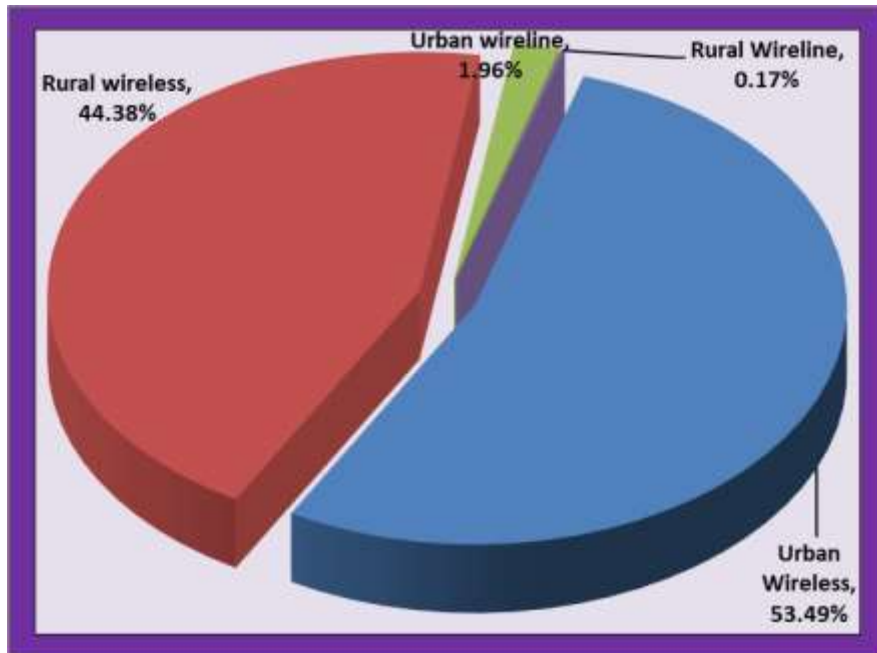


Table 1.2: Service Area wise Access (Wireless+Wireline) Subscriber base

Service Area	Subscribers (million)			
	Dec-21	Mar-22	Net Additions	Rate of Growth
Andhra Pradesh	86.78	85.12	-1.66	-1.92%
Assam	24.42	24.25	-0.17	-0.69%
Bihar	87.82	86.76	-1.06	-1.20%
Delhi	56.40	56.20	-0.20	-0.36%
Gujarat	68.50	68.36	-0.14	-0.21%
Haryana	27.96	27.56	-0.40	-1.44%
Himachal Pradesh	10.46	10.29	-0.17	-1.62%
Jammu & Kashmir	12.07	12.23	0.17	1.37%
Karnataka	68.82	67.37	-1.45	-2.10%
Kerala	45.67	44.69	-0.97	-2.13%
Madhya Pradesh	78.34	77.79	-0.54	-0.69%
Maharashtra	93.78	93.69	-0.09	-0.10%
Mumbai	37.28	37.38	0.10	0.26%
North East	12.15	12.08	-0.07	-0.59%
Odisha	33.48	32.86	-0.62	-1.86%
Punjab	38.61	37.94	-0.67	-1.74%
Rajasthan	63.98	63.88	-0.11	-0.17%
Tamil Nadu	83.24	81.20	-2.04	-2.45%
Uttar Pradesh(E)	101.03	101.16	0.13	0.13%
Uttar Pradesh(W)	64.75	64.69	-0.06	-0.09%
Kolkata	25.21	24.67	-0.54	-2.13%
West Bengal	57.66	56.77	-0.89	-1.55%
All India	1,178.41	1,166.93	-11.47	-0.97%

1.7 All service areas, except Jammu & Kashmir, Mumbai and Uttar Pradesh (E) showed decline in their subscriber base during the quarter ending March-22. Jammu & Kashmir service area showed maximum growth of 1.37% during the quarter.

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

Service Area	Number of Subscribers (in million)			
	Total	Rural	Urban	% of Rural Subscribers
Andhra Pradesh	85.12	41.52	43.59	48.79%
Assam	24.25	15.18	9.07	62.60%
Bihar	86.76	57.37	29.38	66.13%
Delhi	56.20	1.80	54.40	3.20%
Gujarat	68.36	26.83	41.53	39.25%
Haryana	27.56	12.21	15.34	44.32%
Himachal Pradesh	10.29	6.77	3.52	65.78%
Jammu & Kashmir	12.23	5.67	6.56	46.37%
Karnataka	67.37	25.80	41.57	38.30%
Kerala	44.69	19.97	24.73	44.67%
Madhya Pradesh	77.79	34.84	42.95	44.79%
Maharashtra	93.69	42.96	50.73	45.85%
Mumbai	37.38	1.12	36.26	3.00%
North East	12.08	6.23	5.85	51.58%
Odisha	32.86	21.43	11.43	65.21%
Punjab	37.94	12.74	25.19	33.59%
Rajasthan	63.88	34.38	29.50	53.82%
Tamil Nadu	81.20	23.57	57.63	29.02%
U.P.(E)	101.16	62.55	38.61	61.83%
U.P.(W)	64.69	30.75	33.94	47.53%
Kolkata	24.67	1.53	23.14	6.19%
West Bengal	56.77	34.60	22.18	60.94%
All India	1,166.93	519.82	647.11	44.55%

1.8 Only eight service areas have more than 50% share of rural subscribers in their total number of subscribers. Bihar service area has maximum share of rural subscribers of 66.13% in its total telephone subscribers.

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



1.9 The net decrease in telephone subscription is 11.47 million during QE March-22 as compared to the decline of 10.75 million during QE December-21.

Table 1.4 : Service Area wise Tele-density

Service Area/ States	As on 31 st Dec, 2021			As on 31 st March, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Andhra Pradesh	78.56	120.54	95.55	76.81	118.01	93.53
Assam	51.02	168.58	69.15	50.72	165.83	68.50
Bihar	41.46	120.66	53.71	41.38	115.61	52.88
Delhi	-	-	269.86	-	-	267.64
Gujarat	72.90	119.53	95.60	72.89	118.36	95.08
Haryana	70.35	127.16	93.87	69.95	123.60	92.24
Himachal Pradesh	104.48	458.79	140.90	101.51	460.65	138.44
J&K	58.18	155.20	87.51	58.91	156.72	88.55
Karnataka	70.10	143.79	102.41	68.42	140.47	100.10

Service Area/ States	As on 31 st Dec, 2021			As on 31 st March, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Kerala	211.14	97.06	128.01	210.29	94.32	125.15
Madhya Pradesh	42.47	132.71	68.03	42.11	131.14	67.35
Maharashtra (incl. Mumbai)*	67.28	141.59	103.35	67.50	140.84	103.15
North East	61.36	110.26	77.99	60.59	109.67	77.35
Orissa	60.62	142.21	75.85	59.67	138.32	74.38
Punjab	72.66	185.07	121.72	71.28	181.32	119.41
Rajasthan	58.72	139.08	79.97	58.29	138.83	79.62
Tamil Nadu	66.38	141.28	106.45	64.92	137.35	103.76
Uttar Pradesh (incl. UPE & UPW)*	50.05	122.92	67.83	50.39	121.16	67.68
West Bengal (incl. Kolkata)*	57.84	127.51	83.20	57.05	124.48	81.66
All India	58.50	137.26	85.91	58.07	134.94	84.88

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

Notes:-

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

1.10 Kerala service area has the highest Rural Tele-density of 210.29 followed by Himachal Pradesh service area of 101.51. Bihar service area has the lowest Rural Tele-density of 41.38 followed by Madhya Pradesh service area with rural tele-density of 42.11 in QE March-22.

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

Sl. No.	States/UT	Total Telephone Subscription (million)		
		Total	Rural	Urban
1	Andhra Pradesh	44.54	24.50	20.03
2	Arunachal Pradesh	1.28	0.78	0.50
3	Assam	24.25	15.18	9.07
4	Bihar	64.31	45.14	19.16
5	Chhattisgarh	20.35	9.80	10.55
6	Goa	2.18	0.78	1.40
7	Gujarat	67.44	26.50	40.93
8	Haryana	33.48	12.26	21.22
9	Himachal Pradesh	10.29	6.77	3.52
10	Jharkhand	22.45	12.23	10.22
11	Karnataka	67.37	25.80	41.57
12	Kerala	44.63	19.95	24.68
13	Madhya Pradesh	57.44	25.04	32.40
14	Maharashtra Incl. Mumbai	128.89	43.30	85.58
15	Manipur	2.34	1.05	1.29
16	Meghalaya	2.42	1.42	1.01
17	Mizoram	1.40	0.62	0.77
18	Nagaland	1.58	0.90	0.67
19	Odisha	32.86	21.43	11.43
20	Punjab	36.06	12.71	23.35
21	Rajasthan	63.88	34.38	29.50
22	Sikkim	0.96	0.57	0.39
23	Tamil Nadu	80.07	23.24	56.82
24	Telangana	40.58	17.02	23.56
25	Tripura	3.06	1.46	1.60
26	Uttar Pradesh (UPE + UPW)	160.74	86.81	73.93
27	Uttarakhand	13.13	6.49	6.64
28	West Bengal Incl. Kolkata	79.94	35.35	44.59
Union Territories				
1	Andaman & Nicobar Islands	0.53	0.20	0.34
2	Chandigarh	1.88	0.04	1.84
3	Dadra and Nagar Haveli and Daman and Diu	0.93	0.33	0.60
4	Delhi	42.25	1.75	40.50
5	Jammu & Kashmir	11.66	5.43	6.23
6	Ladakh	0.57	0.24	0.33
7	Lakshdweep	0.07	0.02	0.05
8	Puduchery	1.14	0.32	0.81
Total		1166.93	519.82	647.11

Table 1.6 : State/UT wise total Tele-density

Sl.No.	State/UT	Total Tele-density (%)		
		Total	Rural	Urban
1	Andhra Pradesh	84.05	122.29	229.04
2	Arunachal Pradesh	82.83	67.59	127.58
3	Assam	68.50	50.72	165.83
4	Bihar	51.42	41.11	125.53
5	Chhattisgarh	68.15	44.87	131.66
6	Goa	138.97	196.59	119.58
7	Gujarat	95.36	72.45	119.89
8	Haryana	112.05	70.21	170.88
9	Himachal Pradesh	138.44	101.51	460.65
10	Jharkhand	57.55	42.38	100.70
11	Karnataka	100.10	68.42	140.47
12	Kerala	125.20	210.12	94.37
13	Madhya Pradesh	67.08	41.12	130.97
14	Maharashtra Incl. Mumbai	102.70	66.72	141.25
15	Manipur	73.29	48.45	125.64
16	Meghalaya	73.02	53.79	147.05
17	Mizoram	113.73	111.95	115.20
18	Nagaland	71.15	73.36	68.40
19	Odisha	74.38	59.67	138.32
20	Punjab	118.02	71.08	184.23
21	Rajasthan	79.62	58.29	138.83
22	Sikkim	141.18	157.87	122.48
23	Tamil Nadu (incl. Chennai)	104.46	64.89	139.16
24	Telangana	106.75	84.66	131.56
25	Tripura	74.42	57.42	101.95
26	Uttar Pradesh (UPE +UPW)	68.84	48.85	132.51
27	Uttarakhand	113.90	87.20	162.50
28	West Bengal Incl. Kolkata	81.04	56.36	124.17
Union Territories				
1	Andaman & Nicobar Islands	132.56	87.16	191.33
2	Chandigarh	154.04	-	-
3	Dadra and Nagar Haveli and Daman and Diu	78.65	148.13	63.15
4	Delhi	201.23	-	-
5	Jammu & Kashmir	86.30	57.66	152.15
6	Ladakh	190.27	115.29	363.85
7	Lakshdweep	99.98	-	-
8	Puduchery	70.49	67.44	71.80
Total		84.88	58.07	134.94

Table 1.7 : Service Provider wise Growth/Decline in Subscriber base

Service Provider	Subscriber base (millions)			Rate of Growth (%)	Market Share in QE Dec-21 (%)	Market Share in QE Mar-22 (%)
	Dec-21	Mar-22	Net Additions			
Reliance Jio	421.05	410.17	-10.88	-2.58	35.73	35.15
Bharti Airtel	361.35	366.18	4.83	1.34	30.66	31.38
Vodafone Idea Ltd	266.05	261.35	-4.70	-1.77	22.58	22.40
BSNL	121.95	121.25	-0.70	-0.57	10.35	10.39
MTNL	6.01	5.94	-0.07	-1.16	0.51	0.51
Tata Teleservices	1.60	1.60	0.00	0.22	0.14	0.14
Quadrant	0.21	0.27	0.055	26	0.02	0.02
Reliance Com.	0.19	0.18	-0.01	-4.66	0.02	0.02
Total	1,178.41	1,166.93	-11.47	-0.97	100	100

Note: 1. M/s Bharti Airtel Ltd has reported the wireless subscribers including the subscribers of M/s Tata Teleservices Ltd.

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

1.11 M/s Reliance Jio Infocomm Ltd is the market leader with 35.15% in the access segment in terms of number of subscribers with 410.17 million subscribers at the end of March-22 followed by M/s Bharti Airtel Ltd with 366.18 million subscribers.

1.12 In term of net addition, Bharti Telemedia Ltd became the biggest gainer with net addition of 4.83 million telephone subscribers during the QE Mar-22.

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

Service Provider	No. of Total Subscribers (in millions)	No. of Rural Subscribers (in millions)	Percentage of Rural subscribers	Market share of Rural subscribers (%)
Reliance Jio	410.17	175.86	42.87%	33.83
Bharti Airtel	366.18	173.98	47.51%	33.47
Vodafone Idea Ltd	261.35	131.45	50.30%	25.29
BSNL	121.25	38.43	31.69%	7.39
MTNL	5.94	0.04	0.76%	0.01
Tata Teleservices	1.60	0.04	2.35%	0.01
Quadrant	0.27	0.02	8.48%	0.004
Reliance Com.	0.18	0.00	0.08%	0.00
Total	1,166.93	519.82	45.55	100

1.13 M/s Vodafone Idea Ltd is the telecom service provider with highest proportion of rural telephone subscribers of 50.30% followed by Bharti Airtel of 47.51% to their total telephone subscribers at the end of March-22.

Section B : Wireless Service

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

[As on 31st March, 2022]

Sl.No.	Service Provider	Licensed Service Areas
1	Bharti Airtel Ltd	All India
2	Reliance Jio Infocom Ltd	All India
3	Vodafone Idea Ltd	All India
4	BSNL	All India (except Delhi & Mumbai)
5	MTNL	Delhi & Mumbai
6	Reliance Communications Ltd / Reliance Telecom Ltd	All India (except Assam & NE)/Kolkata, MP, WB, HP, Bihar, Odisha, Assam & NE

Source : DoT website

UL Access Services Licensees Virtual Network Operators (VNOs) who are providing services as on 31st March, 2022

1	Surftelecom Pvt. Ltd (Formerly PlintronIndia Pvt. Ltd.)	All India
2	AdPay Mobile Payment India Pvt. Ltd	Tamil Nadu including Chennai

Source : As reported by telecom service providers

- 1.14 Number of total wireless (Mobile and WLL (F)) subscribers decreased from 1,154.62 million at the end of December-21 to 1,142.09 million at the end of March-22, thereby showing a quarterly decline rate of 1.08%. During the quarter, net decrease of 12.53 million wireless subscribers has been recorded.
- 1.15 The total wireless subscriber base recorded a Y-O-Y decline rate of 3.29% in QE March-22 over the same quarter in the previous year.
- 1.16 Wireless Teledensity in the country decreased from 84.17% at the end of December-21 to 83.07% at the end of March-22.

Chart 1.6: Wireless Subscriber Base and Teledensity

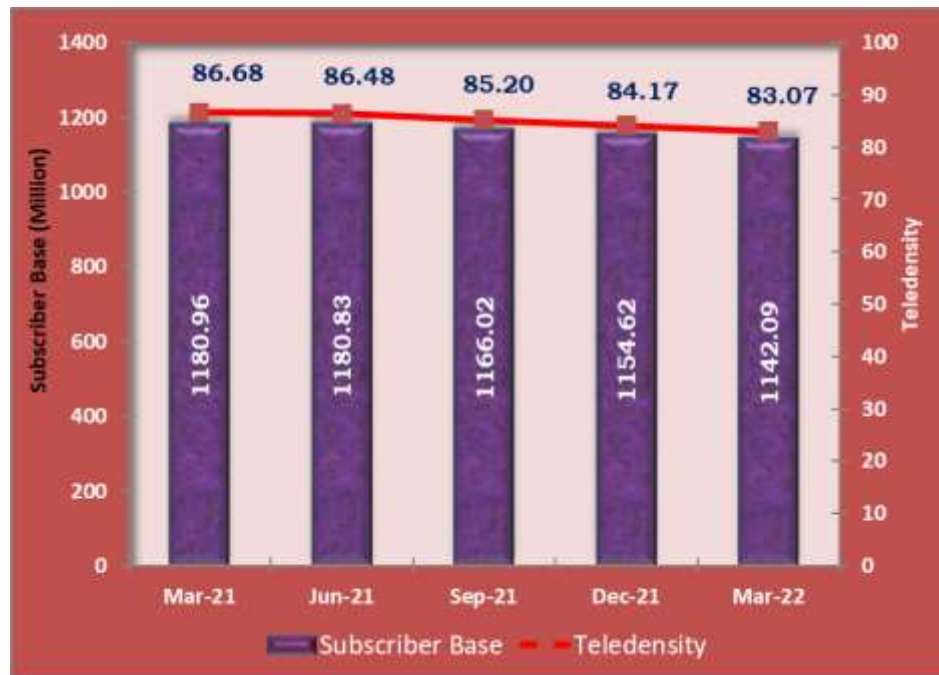


Table 1.10: Wireless Subscriber Base & Tele-density - Rural & Urban

Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
Mar-21	535.75	645.20	60.08	137.08
Jun-21	534.54	646.29	59.89	136.67
Sep-21	528.13	637.89	59.11	134.26
Dec-21	521.28	633.34	58.28	132.68
Mar-22	517.86	624.23	57.85	130.17

1.17 Number of Rural Wireless subscribers decreased from 521.28 million at the end of December-21 to 517.86 million at the end of March-22 and number of urban wireless subscribers also decreased from 633.34 million to 624.23 million during the quarter. Quarterly decline rates of Rural and Urban wireless subscriptions are 0.65% and 1.44% respectively during QE Mar-22.

1.18 The share of rural wireless subscription increased from 45.15% to 45.34% in total wireless subscription during QE March-22.

Chart 1.7: Wireless Market Share - Rural & Urban

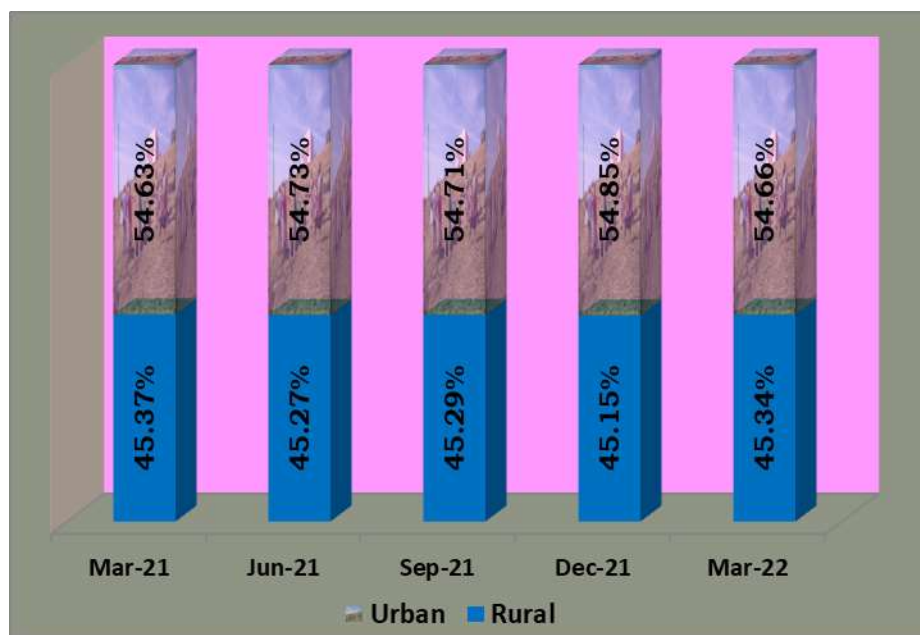


Table 1.11: Growth in Wireless Subscriber base

Service Provider	Subscriber Base (millions)			Rate of Growth	Market Share Dec-21	Market Share Mar-22
	Dec-21	Mar-22	Net Additions			
Reliance Jio	415.72	403.99	-11.72	-2.82%	36.00%	35.37%
Bharti Airtel	355.77	360.33	4.56	1.28%	30.81%	31.55%
Vodafone Idea Ltd	265.51	260.77	-4.74	-1.79%	23.00%	22.83%
BSNL	114.36	113.74	-0.62	-0.54%	9.90%	9.96%
MTNL	3.26	3.25	-0.01	-0.26%	0.28%	0.28%
Reliance Com.	0.004	0.003	0.00	-10.36%	0.00%	0.00%
Total	1,154.62	1142.09	-12.53	-1.08%	100	100

1.19 M/s RJIL Limited is the market leader with a wireless subscriber base of 403.99 million which translates into market share of 35.37% w.r.t total wireless subscriber base. M/s Bharti Airtel Ltd. is at 2nd position with a total subscriber base of 360.33 million and market share of 31.55%.

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

Table 1.12: Service Area wise Wireless Subscriber base

Service Area	Subscriber base (in million)			
	Dec-21	Mar-22	Net Additions	Rate of change (%)
Andhra Pradesh	84.91	83.12	-1.79	-2.11%
Assam	24.23	24.05	-0.19	-0.78%
Bihar	87.41	86.32	-1.10	-1.25%
Delhi	52.60	52.27	-0.33	-0.62%
Gujarat	67.47	67.30	-0.18	-0.26%
Haryana	27.64	27.22	-0.42	-1.52%
Himachal Pradesh	10.35	10.17	-0.17	-1.69%
Jammu & Kashmir	11.80	11.95	0.15	1.26%
Karnataka	66.28	64.67	-1.61	-2.43%
Kerala	44.37	43.37	-0.99	-2.24%
Madhya Pradesh	77.37	76.76	-0.61	-0.79%
Maharashtra	92.41	92.30	-0.11	-0.12%
Mumbai	34.18	34.27	0.09	0.26%
North East	12.00	11.92	-0.08	-0.71%
Orissa	33.18	32.53	-0.65	-1.95%
Punjab	37.80	36.99	-0.81	-2.15%
Rajasthan	63.33	63.19	-0.15	-0.23%
Tamil Nadu	80.95	78.85	-2.10	-2.59%
U.P.(E)	100.46	100.61	0.14	0.14%
U.P.(W)	64.21	64.09	-0.12	-0.19%
Kolkata	24.35	23.77	-0.58	-2.39%
West Bengal	57.31	56.39	-0.92	-1.60%
All India	1,154.62	1,142.09	-12.53	-1.08%

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

Service Area	Subscriber base (in million)			
	Total	Rural	Urban	% of Rural Subscribers
Andhra Pradesh	83.12	41.34	41.78	49.74%
Assam	24.05	15.16	8.88	63.07%
Bihar	86.32	57.34	28.98	66.43%
Delhi	52.27	1.80	50.47	3.44%
Gujarat	67.30	26.76	40.54	39.77%
Haryana	27.22	12.16	15.06	44.66%
Himachal Pradesh	10.17	6.72	3.45	66.07%
Jammu & Kashmir	11.95	5.66	6.29	47.34%
Karnataka	64.67	25.70	38.97	39.74%
Kerala	43.37	19.32	24.05	44.55%
Madhya Pradesh	76.76	34.82	41.94	45.36%
Maharashtra	92.30	42.81	49.49	46.38%
Mumbai	34.27	1.12	33.15	3.26%
North East	11.92	6.22	5.70	52.18%
Orissa	32.53	21.39	11.14	65.75%
Punjab	36.99	12.63	24.36	34.15%
Rajasthan	63.19	34.33	28.85	54.34%
T.N. (incl. Chennai)	78.85	23.31	55.55	29.56%
U.P.(E)	100.61	62.52	38.08	62.15%
U.P.(W)	64.09	30.72	33.37	47.93%
Kolkata	23.77	1.53	22.25	6.42%
West Bengal	56.39	34.51	21.89	61.19%
All India	1,142.09	517.86	624.23	45.34%

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

Table 1.14 : Service Area wise Wireless Tele-density

Service Area	As on 31 st December, 2021			As on 31 st March, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
A.P.	78.25	115.92	93.50	76.47	113.10	91.34
Assam	50.96	165.43	68.61	50.66	162.36	67.91
Bihar	41.44	119.20	53.47	41.35	114.02	52.61
Delhi	-	-	251.66	-	-	248.93
Gujarat	72.73	116.77	94.16	72.70	115.54	93.60
Haryana	70.06	125.00	92.81	69.64	121.33	91.12
H.P.	103.68	450.54	139.34	100.75	451.42	136.81
J&K	58.03	149.19	85.59	58.76	150.35	86.52
Karnataka	69.83	135.51	98.63	68.15	131.68	96.09
Kerala	204.48	94.54	124.36	203.50	91.74	121.45
M.P.	42.45	129.82	67.19	42.08	128.05	66.46
Maharashtra (incl. Mumbai)*	67.04	134.58	99.82	67.26	133.81	99.61
North East	61.23	107.65	77.02	60.46	106.84	76.30
Orissa	60.52	138.97	75.16	59.56	134.82	73.64
Punjab	72.05	180.01	119.17	70.66	175.28	116.41
Rajasthan	58.64	136.20	79.16	58.21	135.79	78.76
Tamil Nadu	65.67	136.41	103.53	64.21	132.37	100.75
Uttar Pradesh (incl. UPE&UPW)*	50.02	121.16	67.38	50.36	119.32	67.21
West Bengal (incl. Kolkata)*	57.70	124.42	81.99	56.91	121.22	80.38
All India	58.28	132.68	84.17	57.85	130.17	83.07

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

Notes:

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

Table 1.15 : State/UT wise Wireless Subscriber Base

Sl. No.	States/UT	Wireless Subscribers (in million)		
		Total	Rural	Urban
1	Andhra Pradesh	43.47	24.37	19.11
2	Arunachal Pradesh	1.27	0.78	0.49
3	Assam	24.05	15.16	8.88
4	Bihar	64.11	45.12	18.99
5	Chhattisgarh	20.12	9.80	10.32
6	Goa	2.11	0.76	1.35
7	Gujarat	66.38	26.43	39.94
8	Haryana	33.02	12.21	20.82
9	Himachal Pradesh	10.17	6.72	3.45
10	Jharkhand	22.21	12.22	9.99
11	Karnataka	64.67	25.70	38.97
12	Kerala	43.31	19.30	24.01
13	Madhya Pradesh	56.64	25.02	31.62
14	Maharashtra	124.46	43.17	81.29
15	Manipur	2.31	1.05	1.26
16	Meghalaya	2.39	1.42	0.97
17	Mizoram	1.37	0.62	0.75
18	Nagaland	1.56	0.90	0.66
19	Odisha	32.53	21.39	11.14
20	Punjab	35.30	12.60	22.71
21	Rajasthan	63.19	34.33	28.85
22	Sikkim	0.96	0.57	0.39
23	Tamil Nadu	77.77	22.99	54.78
24	Telangana	39.65	16.97	22.67
25	Tripura	3.02	1.46	1.57
26	Uttar Pradesh	159.65	86.77	72.87
27	Uttarakhand	12.93	6.47	6.45
28	West Bengal	78.71	35.28	43.43
Union Territories				
1	Andaman & Nicobar Islands	0.50	0.18	0.32
2	Chandigarh	1.68	0.04	1.65
3	Dadra and Nagar Haveli and Daman and Diu	0.92	0.33	0.59
4	Delhi	38.59	1.75	36.84
5	Jammu & Kashmir	11.39	5.42	5.97
6	Ladakh	0.56	0.24	0.33
7	Lakshdweep	0.06	0.02	0.05
8	Puduchery	1.08	0.32	0.77
Total		1142.09	517.86	624.23

Table 1.16 : State/UT wise Wireless Tele-density

Sl.No.	State/UT	Wireless Tele-density (%)		
		Total	Rural	Urban
1	Andhra Pradesh	82.05	71.77	100.39
2	Arunachal Pradesh	81.81	67.20	124.70
3	Assam	67.91	50.66	162.36
4	Bihar	51.26	41.09	124.35
5	Chhattisgarh	67.36	44.82	128.82
6	Goa	134.58	191.83	115.31
7	Gujarat	93.86	72.27	117.00
8	Haryana	110.53	69.90	167.66
9	Himachal Pradesh	136.81	100.75	451.42
10	Jharkhand	56.94	42.33	98.47
11	Karnataka	96.09	68.15	131.68
12	Kerala	121.51	203.35	91.79
13	Madhya Pradesh	66.14	41.09	127.80
14	Maharashtra	99.17	66.51	134.17
15	Manipur	72.22	48.35	122.54
16	Meghalaya	71.93	53.72	142.06
17	Mizoram	111.67	111.85	111.52
18	Nagaland	70.41	73.31	66.80
19	Odisha	73.64	59.56	134.82
20	Punjab	115.55	70.46	179.14
21	Rajasthan	78.76	58.21	135.79
22	Sikkim	140.33	157.81	120.74
23	Tamil Nadu	101.46	64.19	134.15
24	Telangana	104.29	84.42	126.60
25	Tripura	73.52	57.27	99.84
26	Uttar Pradesh	68.37	48.83	130.61
27	Uttarakhand	112.15	87.02	157.89
28	West Bengal	79.79	56.24	120.93
Union Territories				
1	Andaman & Nicobar Islands	123.79	80.08	180.37
2	Chandigarh	137.95	-	-
3	Dadra and Nagar Haveli and Daman and Diu	78.14	147.25	62.72
4	Delhi	183.78	-	-
5	Jammu & Kashmir	84.26	57.53	145.73
6	Ladakh	188.66	114.55	360.23
7	Lakshdweep	93.93	-	-
8	Puduchery	67.24	65.43	68.02
All India Tele-density		83.07	57.85	130.17

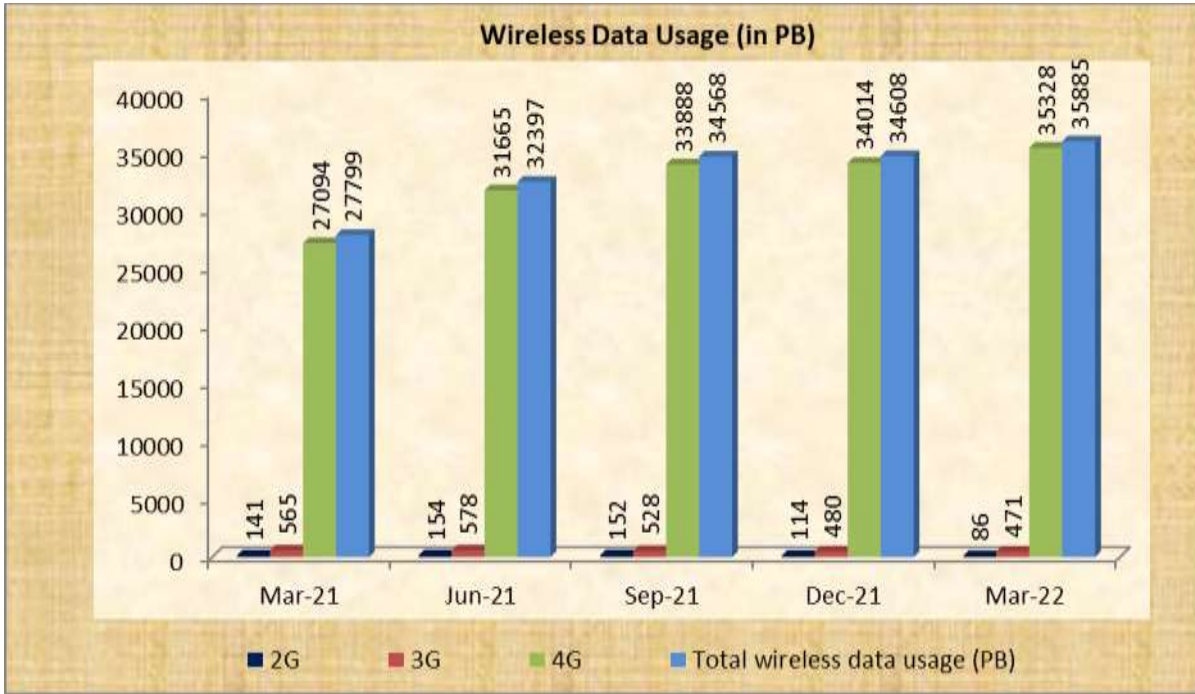
**Table 1.17 : Rural Wireless Subscriber base and Market Share
(as on 31.03.2022)**

Service Provider	Total number of wireless Subscribers (in millions)	Rural Subscribers (in millions)	% of Rural subscribers in total	Market Share of Rural Subscribers (%)
Reliance Jio	403.99	175.77	43.51	33.94
Bharti Airtel*	360.33	173.98	48.28	33.59
Vodafone Idea Ltd	260.77	131.45	50.41	25.38
BSNL	113.74	36.62	32.20	7.07
MTNL	3.25	0.04	1.38	0.01
Reliance Com.	0.003	0.00	0.00	0.00
Total	1,142.09	517.86	45.34	100

Wireless Data Usage

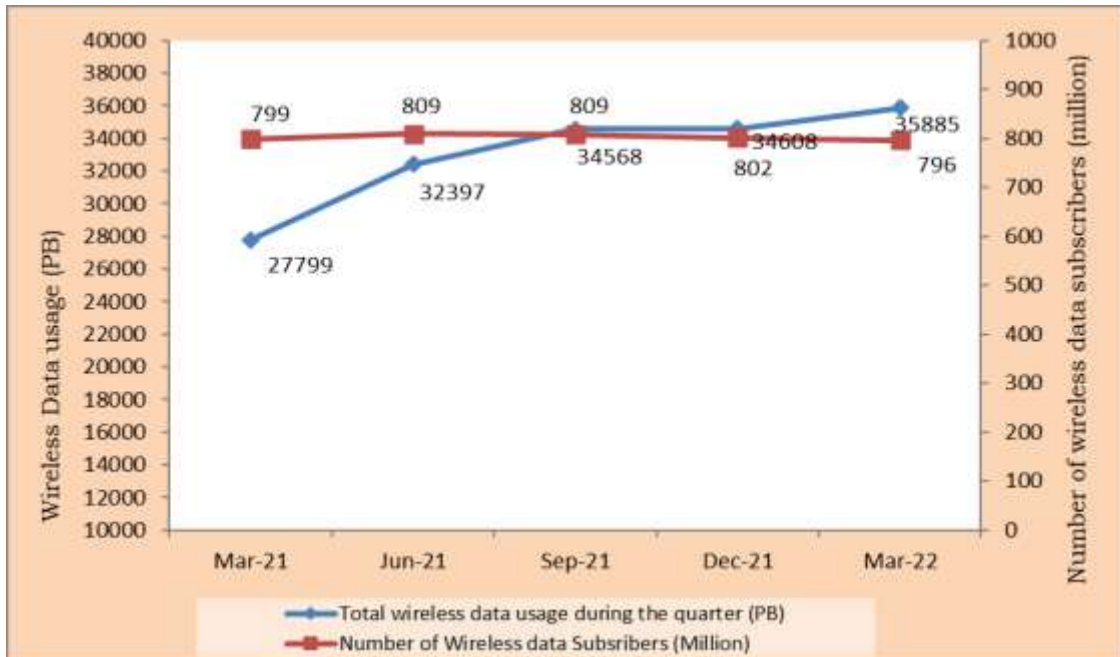
- 1.22 Volume of total wireless data usage increased from 34,608 PB during Q.E. December-21 to 35,885 PB during Q.E. March-22 with quarterly growth rate of 3.69%. Out of total data wireless usage, 2G data usage was 86 PB, 3G data usage was 471 PB and 4G data usage was 35,328 PB during the quarter.
- 1.23 Total number of wireless data subscribers decreased from 801.58 million at the end of December-21 to 796.44 million at the end of March-22.
- 1.24 The contribution of 2G, 3G and 4G data usage in total volume of wireless data usage are about 0.24%, 1.31% and 98.45% respectively during the QE March-22.
- 1.25 Technology-wise trend of growth in volume of wireless data usage is depicted in the following chart.

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



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

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



Section C : Wireline Service

Table 1.18 : Service Providers providing Wireline Service

[As on 31st March, 2022]

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 including Chennai, 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 including Chennai, UP-East, UP-West and West Bengal.
6.	Tata Teleservices Ltd. & Tata Teleservices (Maharashtra) Ltd	Andhra Pradesh, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Karnataka, Kerala, Kolkata, Madhya Pradesh, Maharashtra, Mumbai, Odisha, Punjab, Rajasthan, Tamil Nadu including Chennai, UP-East, UPWest and West Bengal.
7	Vodafone Idea Ltd	Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Kolkata, Madhya Pradesh, Maharashtra, Mumbai, North-East, Odisha, Punjab, Rajasthan, Tamil Nadu including Chennai, UP-East, UP-West and West Bengal.
8	Reliance Jio Infocomm Ltd.	Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Kolkata, Madhya Pradesh, Maharashtra, Mumbai, North-East, Odisha, Punjab, Rajasthan, Tamil Nadu including Chennai, UP-East, UP-West and West Bengal.

1.27 Total number of Wireline subscribers increased from 23.79 million at the end of Dec-21 to 24.84 million at the end of Mar-22 with quarterly growth rate of 4.42%. Overall Wireline Teledensity in the country increased from 1.73% at the end of Dec-21 to 1.81% at the end of Mar-22.

1.28 Urban wireline subscriber base increased by 4.69% from 21.86 million at the end of Dec-21 to 22.88 million at the end of Mar-22. Rural wireline subscription also increased by 1.39%, from 1.93 million to 1.96 million during the same period.

Chart 1.10: Wireline Subscriber Base and Tele-density

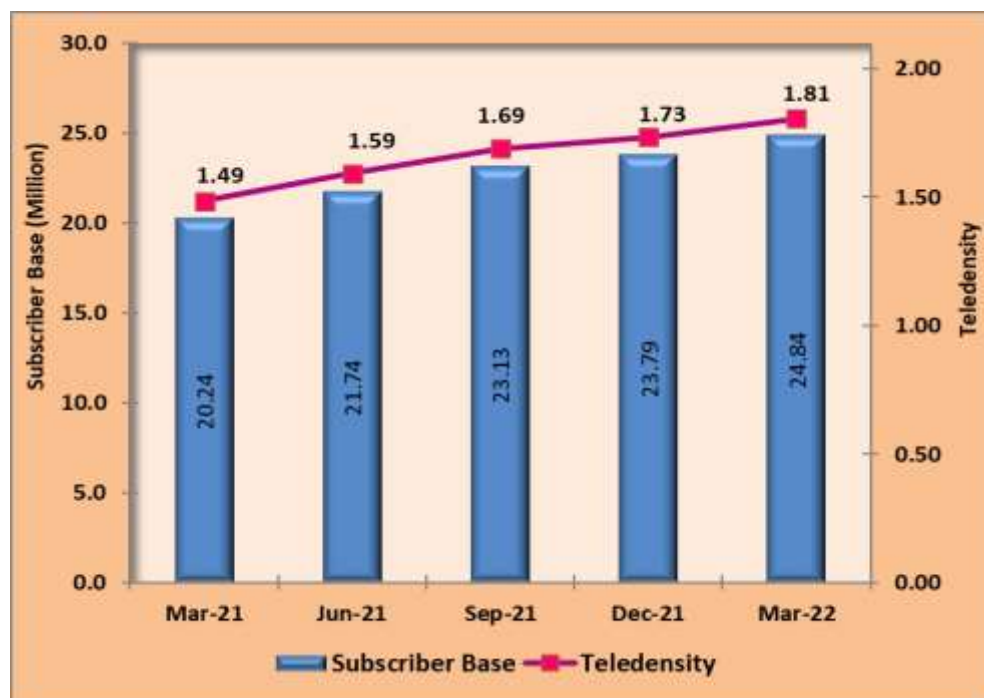


Table 1.19: Wireline Subscriber Base & Tele-density - Rural & Urban

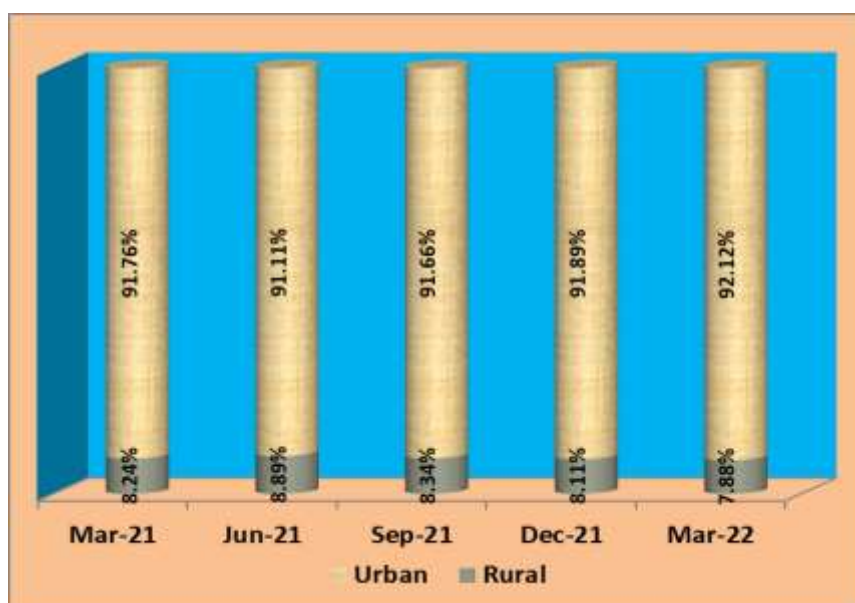
Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
Mar-21	1.67	18.57	0.19	3.95
Jun-21	1.93	19.80	0.22	4.19
Sep-21	1.93	21.20	0.22	4.46
Dec-21	1.93	21.86	0.22	4.58
Mar-22	1.96	22.88	0.22	4.77

**Table 1.20 : Service Provider wise Wireline Subscriber base
(Rural - Urban) – As on 31.03.2022**

Service Provider	Subscriber Base (million)			Percentage of Rural subscribers	Share of Rural subscription
	Rural	Urban	Total		
BSNL	1.81	5.70	7.51	24.06%	92.36%
Bharti	-	5.85	5.85	-	0.00%
MTNL	-	2.69	2.69	-	0.00%
Tata Tele.	0.04	1.56	1.60	2.35%	1.92%
Reliance Com.	0.0002	0.17	0.17	0.09%	0.01%
Quadrant	0.02	0.24	0.27	8.48%	1.16%
Vodafone Idea	-	0.57	0.57	-	0.00%
Reliance Jio	0.089	6.08	6.17	1.44%	4.56%
Total	1.96	22.88	24.84	7.88	100

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

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



1.30 Market Share of Rural wireline subscription decreased from 8.11% in QE Dec-21 to 7.88% in QE Mar-22.

Table 1.21 : Service Provider wise growth in Wireline Subscriber base

Service Provider	Subscriber Base (million)			Rate of change (%)	Market share-Dec-21(%)	Market share-Mar-22(%)
	Dec-21	Mar-22	Net Addition			
Reliance Jio	5.33	6.17	0.84	15.75	22.42	24.85
Quadrant	0.21	0.27	0.06	26	0.89	1.07
Vodafone Idea	0.53	0.57	0.04	7.26	2.24	2.30
Bharti Airtel	5.58	5.85	0.27	4.82	23.46	23.55
Tata Tele.	1.60	1.60	0.00	0.22	6.71	6.44
Reliance Com	0.18	0.17	-0.01	-4.54	0.77	0.70
MTNL	2.75	2.69	-0.06	-2.21	11.58	10.84
BSNL	7.59	7.51	-0.08	-1.11	31.92	30.23
Total	23.79	24.84	1.05	4.42	100	100

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

Service Area	Dec-21	Mar-22	Net Additions	Rate of Change (%)
Andhra Pradesh	1.87	1.99	0.13	6.80
Assam	0.19	0.21	0.02	9.99
Bihar	0.40	0.44	0.04	9.44
Delhi	3.80	3.93	0.12	3.26
Gujarat	1.03	1.06	0.03	3.27
Haryana	0.32	0.34	0.02	5.89
Himachal Pradesh	0.12	0.12	0.01	4.59
Jammu & Kashmir	0.26	0.28	0.02	6.12
Karnataka	2.54	2.70	0.16	6.41
Kerala	1.30	1.32	0.02	1.46

Service Area	Dec-21	Mar-22	Net Additions	Rate of Change (%)
Madhya Pradesh	0.96	1.04	0.07	7.35
Maharashtra	1.37	1.39	0.02	1.24
Mumbai	3.10	3.11	0.01	0.35
North East	0.15	0.16	0.01	8.97
Orissa	0.30	0.33	0.02	7.62
Punjab	0.81	0.95	0.14	17.37
Rajasthan	0.65	0.69	0.04	5.76
Tamil Nadu	2.29	2.35	0.06	2.58
U.P.(E)	0.57	0.55	-0.01	-2.52
U.P.(W)	0.54	0.60	0.06	11.22
Kolkata	0.85	0.90	0.05	5.28
West Bengal	0.35	0.38	0.02	6.96
All India	23.79	24.84	1.05	4.42

1.31 Punjab service area showed maximum growth of 17.37% and U.P. (East) service area showed decline of 2.52% in their wireline subscriber base during the quarter ending Mar-22.

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

Service Area	Total Subscribers	Rural Subscribers	Urban Subscribers	% of Rural Subscribers
Andhra Pradesh	1.99	0.18	1.81	9.07
Assam	0.21	0.02	0.19	9.08
Bihar	0.44	0.03	0.41	7.84
Delhi	3.93	0.00	3.93	0.01
Gujarat	1.06	0.07	0.99	6.56
Haryana	0.34	0.05	0.28	16.18
Himachal Pradesh	0.12	0.05	0.07	41.75
Jammu & Kashmir	0.28	0.01	0.27	5.13
Karnataka	2.70	0.10	2.60	3.84

Service Area	Total Subscribers	Rural Subscribers	Urban Subscribers	% of Rural Subscribers
Kerala	1.32	0.64	0.68	48.83
Madhya Pradesh	1.04	0.02	1.01	2.19
Maharashtra	1.39	0.15	1.24	11.04
Mumbai	3.11	0.00	3.11	0.09
North East	0.16	0.01	0.15	8.17
Orissa	0.33	0.04	0.29	11.33
Punjab	0.95	0.11	0.84	11.74
Rajasthan	0.69	0.04	0.65	6.34
Tamil Nadu	2.35	0.26	2.09	11.04
U.P.(E)	0.55	0.02	0.53	4.09
U.P.(W)	0.60	0.03	0.57	4.70
Kolkata	0.90	0.00	0.90	0.00
West Bengal	0.38	0.09	0.29	23.63
All India	24.84	1.96	22.88	7.88

1.32 Kerala service area has the maximum share 48.83% of rural wireline subscriber in its total wireline subscriber base at the end of Mar-22.

Table 1.24: Service Area wise Wireline Tele-density

Service Area	As on 31st December, 2021			As on 31st March, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Andhra Pradesh	0.31	4.62	2.06	0.33	4.91	2.19
Assam	0.06	3.15	0.54	0.06	3.47	0.59
Bihar	0.02	1.46	0.25	0.02	1.59	0.27
Delhi	-	-	18.20	-	-	18.70
Gujarat	0.17	2.77	1.44	0.19	2.83	1.48
Haryana	0.29	2.16	1.06	0.31	2.26	1.12
Himachal Pradesh	0.79	8.24	1.56	0.76	9.23	1.63
Jammu & Kashmir	0.15	6.01	1.92	0.15	6.37	2.03
Karnataka	0.26	8.28	3.78	0.28	8.78	4.02
Kerala	6.66	2.53	3.65	6.79	2.58	3.70

Service Area	As on 31 st December, 2021			As on 31 st March, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Madhya Pradesh	0.03	2.89	0.84	0.03	3.09	0.90
Maharashtra (incl. Mumbai)*	0.24	7.01	3.53	0.24	7.03	3.54
North East	0.13	2.60	0.97	0.13	2.83	1.05
Orissa	0.10	3.25	0.69	0.10	3.51	0.74
Punjab	0.61	5.07	2.55	0.62	6.04	2.99
Rajasthan	0.07	2.88	0.82	0.07	3.04	0.86
Tamil Nadu (incl. Chennai)	0.70	4.86	2.93	0.71	4.98	3.00
Uttar Pradesh (incl. UPE & UPW)*	0.03	1.76	0.45	0.03	1.84	0.47
West Bengal (incl. Kolkata)*	0.14	3.09	1.21	0.14	3.26	1.28
All India	0.22	4.58	1.73	0.22	4.77	1.81

* Population data/projections are available state-wise only

- Note: -
1. Tele-density figures are derived from the subscriber data provided by the operators and projection of population from the 'Report of the Technical Group on Population Projections for India and States 2011 – 2036', which is available under the link https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf
 2. 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 1.25: State/UT wise Wireline Subscriber base

Sl. No.	States/UT	Wireline Subscribers (in million)		
		Total	Rural	Urban
1	Andhra Pradesh	1.06	0.13	0.93
2	Arunachal Pradesh	0.02	0.004	0.01
3	Assam	0.21	0.02	0.19
4	Bihar	0.20	0.02	0.18
5	Chhattisgarh	0.24	0.01	0.23
6	Goa	0.07	0.02	0.05
7	Gujarat	1.06	0.07	0.99
8	Haryana	0.45	0.05	0.40
9	Himachal Pradesh	0.12	0.05	0.07
10	Jharkhand	0.24	0.01	0.23
11	Karnataka	2.70	0.10	2.60
12	Kerala	1.32	0.64	0.67
13	Madhya Pradesh	0.80	0.01	0.79
14	Maharashtra Incl. Mumbai	4.43	0.14	4.29
15	Manipur	0.03	0.002	0.03
16	Meghalaya	0.04	0.002	0.03
17	Mizoram	0.03	0.001	0.02
18	Nagaland	0.02	0.001	0.02
19	Odisha	0.33	0.04	0.29
20	Punjab	0.75	0.11	0.64
21	Rajasthan	0.69	0.04	0.65
22	Sikkim	0.006	0.0002	0.01
23	Tamil Nadu	2.30	0.25	2.05
24	Telangana	0.93	0.05	0.89
25	Tripura	0.04	0.004	0.03
26	Uttar Pradesh (UPE+UPW)	1.10	0.04	1.06
27	Uttarakhand	0.20	0.01	0.19
28	West Bengal Incl. Kolkata	1.24	0.07	1.16
Union Territories				
1	Andaman & Nicobar Islands	0.04	0.02	0.02
2	Chandigarh	0.20	0.002	0.19
3	Dadra and Nagar Haveli and Daman and Diu	0.006	0.002	0.004
4	Delhi	3.66	0.00	3.66
5	Jammu & Kashmir	0.28	0.01	0.26
6	Ladakh	0.005	0.002	0.003
7	Lakshdweep	0.004	0.002	0.002
8	Puduchery	0.05	0.01	0.04
Total		24.84	1.96	22.88

Table 1.26: State/UT wise Wireline Tele-density

Sl.No.	State/UT	Wireline Tele-density		
		Total (%)	Rural (%)	Urban (%)
1	Andhra Pradesh	3.77	0.53	9.53
2	Arunachal Pradesh	1.02	0.38	2.88
3	Assam	0.59	0.06	3.47
4	Bihar	0.16	0.02	1.17
5	Chhattisgarh	0.79	0.04	2.84
6	Goa	4.40	4.76	4.27
7	Gujarat	1.49	0.19	2.90
8	Haryana	1.52	0.31	3.22
9	Himachal Pradesh	1.63	0.76	9.23
10	Jharkhand	0.61	0.04	2.23
11	Karnataka	4.02	0.28	8.78
12	Kerala	3.69	6.77	2.57
13	Madhya Pradesh	0.93	0.02	3.17
14	Maharashtra Incl. Mumbai	3.53	0.21	7.08
15	Manipur	1.06	0.09	3.11
16	Meghalaya	1.09	0.07	5.00
17	Mizoram	2.06	0.10	3.68
18	Nagaland	0.74	0.05	1.60
19	Odisha	0.74	0.10	3.51
20	Punjab	2.47	0.61	5.09
21	Rajasthan	0.86	0.07	3.04
22	Sikkim	0.85	0.06	1.74
23	Tamil Nadu	3.00	0.70	5.01
24	Telangana	2.46	0.23	4.95
25	Tripura	0.90	0.15	2.11
26	Uttar Pradesh (UPE + UPW)	0.47	0.02	1.90
27	Uttarakhand	1.75	0.18	4.61
28	West Bengal incl. Kolkata	1.25	0.12	3.24
Union Territories				
1	Andaman & Nicobar Islands	8.77	7.08	10.96
2	Chandigarh	16.10	175.90	15.96
3	Dadra and Nagar Haveli and Daman and Diu	0.51	0.88	0.43
4	Delhi	17.45	0.22	17.54
5	Jammu & Kashmir	2.04	0.14	6.43
6	Ladakh	1.61	0.74	3.63
7	Lakshdweep	6.05	163.80	3.70
8	Puduchery	3.25	2.01	3.78
Total		1.81	0.22	4.77

Public Call Offices (PCO)

1.33 Total number of PCOs in the country decreased from 73,634 at the end of Dec-21 to 66,154 at the end of Mar-22. Detailed table of service provider wise PCOs is available at **Annexure-1.3**.

Chart 1.12: Trend of Number of PCOs



1.34 Number of PCOs continued show declining trend over the year. It has recorded a overall quarterly decline rate of 10.16% and on Y-O-Y basis decline rate of 47.54% at the QE Mar-22.

Table 1.27: Rate of change & Market share of PCOs

Service Provider	Dec-21	Mar-22	Rate of change (%)	Market share (%) (Mar-22)
BSNL	51,522	45,434	-11.82	68.68
MTNL	17,796	16,443	-7.60	24.86
Bharti	3,877	3,861	-0.41	5.84
Quadrant	439	416	-5.24	0.63
Total	73,634	66,154	-10.16	100

Village Public Telephones (VPTs)

- 1.35 There are 5,93,731 inhabited villages in India as per census 2001. During the Q.E. Mar-22, there are 68,606 villages having Village Public Telephones (VPTs).
- 1.36 Number of VPTs remained same i.e. 68,606 at the end of Mar-22 as were at the end of Dec-21.
- 1.37 As per the information received in TRAI, at the end of Mar-22, only M/s BSNL was providing VPT in the country. Service area wise detailed table of VPT is available at **Annexure-1.4**.

Chart 1.13: Trend of number of VPTs



Section D: Internet Service

1.38 This section summarizes information submitted by internet service providers for the quarter ending Mar-21. **Part-I** consists of information of Internet service (narrowband+broadband), **Part-II** consists of broadband service and **Part-III** covers narrowband service.

Part-I: Internet Service (broadband + narrowband)

1.39 As per reports received from 660 operators as compared to 639 operators in last quarter, total number of internet subscribers decreased from 829.30 million at the end of Dec-21 to 824.89 million at the end of Mar-22 with quarterly decline rate of 0.53%. Out of total 824.89 million internet subscribers, 788.30 million were broadband subscribers and 36.59 million were narrowband subscribers.

1.40 Wired Internet subscribers increased from 26.58 million at the end of Dec-21 to 27.27 million at the end of Mar-22 with quarterly growth rate of 2.62%. Wireless Internet subscribers decreased from 802.72 million at the end of Dec-21 to 797.61 million at the end of Mar-22 with quarterly decline rate of 0.64%.

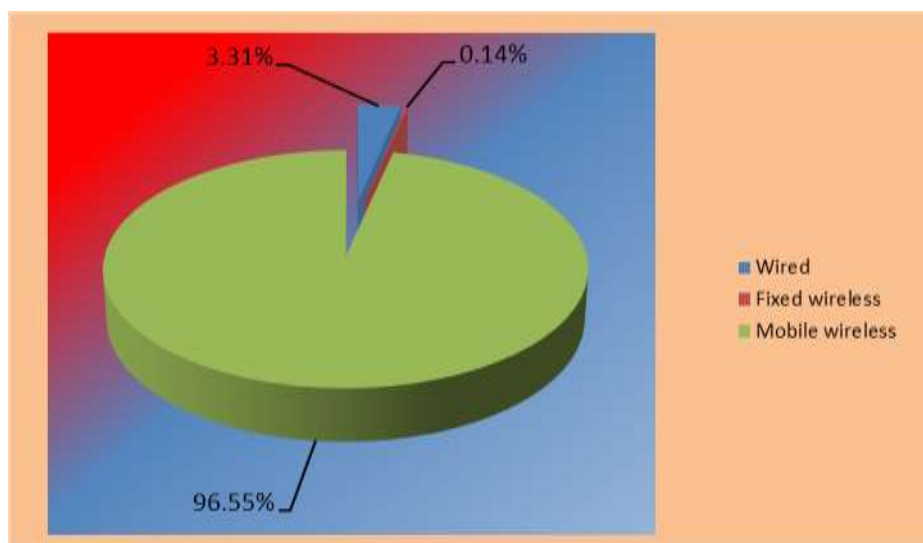
1.41 The number of Broadband subscribers decreased from 792.08 million at the end of Dec-21 to 788.30 million at the end of Mar-22 with quarterly decline rate of 0.48%. Number of Narrowband subscribers also declined from 37.21 million at the end of Dec-21 to 36.59 million at the end of Mar-22 with quarterly decline rate of 1.66%.

Table 1.28: Trend of Internet subscriber base

Segment	Mode of Access								Total Subscribers (in million)	
	Wired Subscribers (in million)		Wireless Subscribers (in million)							
			Fixed Wireless (Wi-Fi, Wi-Max, Radio & VSAT)		Mobile Wireless (Phone + Dongle)		Total Wireless			
	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22
Broadband	26.43	27.25	1.13	1.18	764.52	759.87	765.65	761.05	792.08	788.30
Narrowband	0.14	0.03	0.01	0.0060	37.06	36.56	37.07	36.57	37.21	36.59
Total	26.58	27.27	1.14	1.18	801.58	796.43	802.72	797.61	829.30	824.89

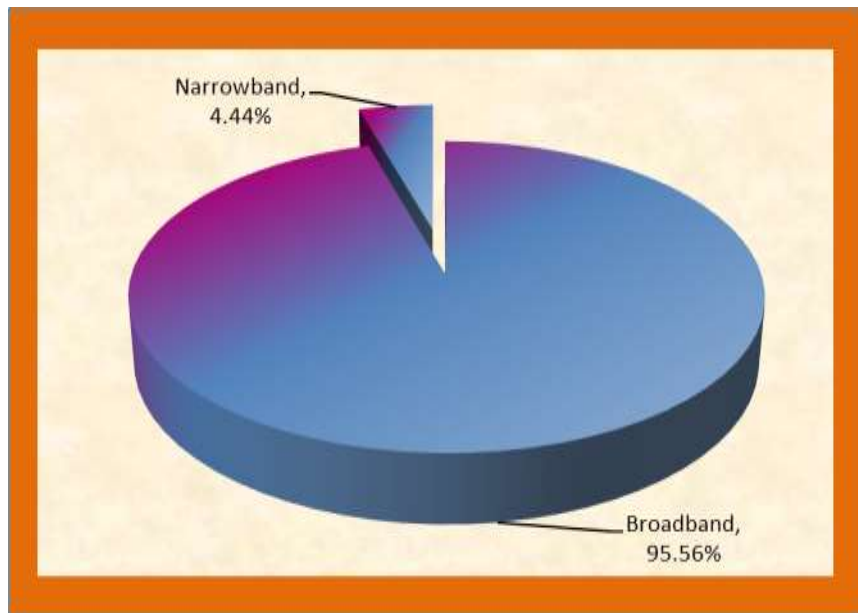
1.42 The following charts present the composition of Internet Subscribers by mode of access and composition of Broadband & Narrowband subscription as on 31st March, 2022.

Chart 1.14: Composition of Internet subscription



1.43 Out of total internet subscribers, 96.69% subscribers are using Mobile devices for access of internet service. Wired internet subscribers are only 3.31% in total internet subscribers at the end of Mar-22.

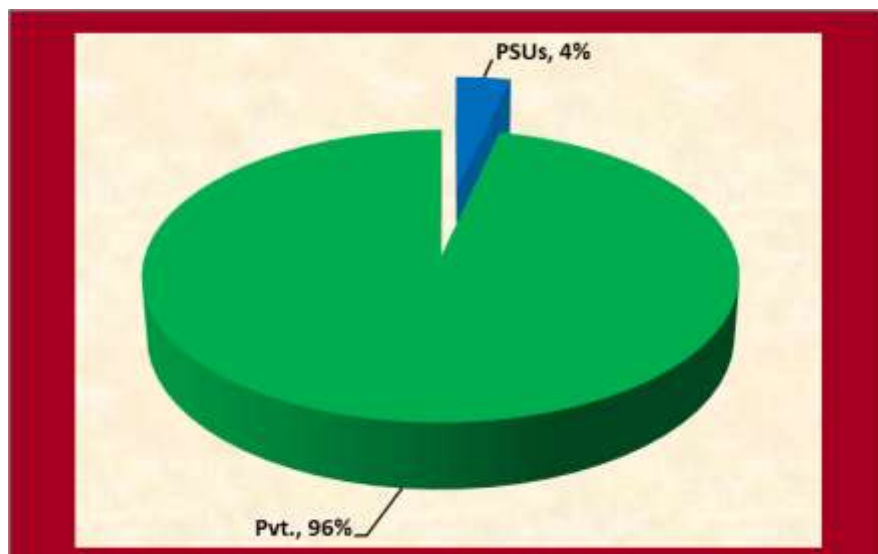
Chart 1.15 : Composition of Broadband & Narrowband subscription



1.44 Out of total internet subscribers, 95.56% subscribers are using broadband for access of internet.

1.45 Share of private internet service providers in total internet subscriber base is 96%, at QE Mar-22. The following charts present the composition of market share of PSUs and Private Internet service providers.

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



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

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

Telecom Service Area	Narrowband		Broadband		Total (Mar-22)		Total (Dec-2021)	
	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban
Andhra Pradesh	1.45	1.38	25.68	33.54	27.13	34.92	28.03	35.27
Assam	0.49	0.20	9.19	6.11	9.68	6.30	9.66	6.42
Bihar	2.25	0.67	35.09	20.69	37.34	21.36	36.69	21.56
Delhi	0.27	4.82	0.53	41.10	0.80	45.92	0.79	38.20
Gujarat	0.50	0.65	16.02	34.34	16.52	34.99	16.24	34.64
Haryana	0.32	0.42	7.75	9.96	8.07	10.37	8.10	13.04
Himachal Pradesh	0.10	0.08	3.80	2.30	3.89	2.38	4.06	2.37
Jammu & Kashmir	0.16	0.10	3.74	4.63	3.90	4.73	3.79	4.63
Karnataka	1.06	1.21	16.40	29.43	17.45	30.64	17.99	31.74
Kerala	0.54	0.49	13.77	15.62	14.32	16.10	14.46	16.66
Kolkata	0.04	0.64	1.17	15.91	1.21	16.55	1.26	16.77
Madhya Pradesh	1.18	0.81	22.46	32.37	23.64	33.18	23.54	32.96
Maharashtra	1.32	1.05	28.62	40.15	29.94	41.20	29.90	41.56
Mumbai	0.01	1.44	1.01	27.42	1.02	28.86	1.06	28.70
North East	0.16	0.11	4.49	4.25	4.65	4.36	4.68	4.29
Orissa	0.55	0.19	13.14	7.01	13.69	7.20	13.90	7.40
Punjab	0.34	0.53	8.44	17.18	8.78	17.71	9.13	18.46
Rajasthan	0.90	0.76	20.27	22.42	21.17	23.18	21.26	22.78
Tamil Nadu	0.83	1.40	14.64	39.03	15.47	40.43	15.74	41.30
UP (East)	2.60	0.93	32.61	27.39	35.20	28.32	35.10	32.83
UP (West)	1.03	0.82	16.54	24.63	17.57	25.45	17.39	25.59
West Bengal	1.40	0.39	18.96	18.53	20.36	18.92	20.34	19.04
Grand Total	17.51	19.09	314.30	473.99	331.81	493.08	333.10	496.20
	36.59		788.30		824.89		829.30	

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

S.No.	State(s)	Narrowband		Broadband		Total (Mar 2022)	
		Rural	Urban	Rural	Urban	Rural	Urban
1	Andhra Pradesh	0.88	0.78	14.91	15.15	15.79	15.93
2	Arunachal Pradesh	0.02	0.01	0.44	0.32	0.46	0.33
3	Assam	0.49	0.20	9.19	6.11	9.68	6.31
4	Bihar	1.90	0.46	26.73	13.55	28.62	14.02
5	Chattisgarh	0.23	0.18	6.86	7.84	7.09	8.02
6	Goa	0.04	0.04	0.59	1.24	0.63	1.28
7	Gujarat	0.50	0.64	15.80	33.99	16.29	34.63
8	Haryana	0.32	0.42	7.79	12.90	8.11	13.32
9	Himachal Pradesh	0.10	0.08	3.80	2.30	3.89	2.38
10	Jharkhand	0.35	0.21	8.36	7.13	8.72	7.34
11	Karnataka	1.06	1.21	16.40	29.43	17.45	30.64
12	Kerala	0.51	0.49	13.73	15.62	14.24	16.10
13	Madhya Pradesh	0.95	0.63	15.60	24.53	16.55	25.16
14	Maharashtra incl. Mumbai	1.29	2.46	29.04	66.32	30.33	68.77
15	Manipur	0.03	0.02	0.83	1.12	0.86	1.14
16	Meghalaya	0.04	0.02	1.06	0.64	1.09	0.66
17	Mizoram	0.01	0.01	0.45	0.64	0.46	0.65
18	Nagaland	0.02	0.02	0.85	0.60	0.87	0.61
19	Odisha	0.55	0.19	13.14	7.01	13.69	7.20
20	Punjab	0.34	0.52	8.40	16.40	8.74	16.92
21	Rajasthan	0.90	0.76	20.27	22.42	21.17	23.18
22	Sikkim	0.02	0.00	0.23	0.29	0.25	0.29
23	Tamil Nadu incl. Chennai	0.83	1.39	14.41	38.64	15.24	40.03
24	Telangana	0.57	0.60	10.77	18.39	11.33	18.98
25	Tripura	0.04	0.04	0.86	0.93	0.90	0.96
26	Uttar Pradesh (UPE+UPW)	3.50	1.60	45.39	50.80	48.89	52.41
27	Uttarakhand	0.13	0.15	3.76	4.34	3.89	4.49
28	West Bengal incl. Kolkata	1.42	1.03	19.78	34.05	21.20	35.07
Union Territories							
1	Andaman & Nicobar Islands	0.00	0.00	0.13	0.10	0.13	0.10
2	Chandigarh	0.00	0.01	0.03	0.78	0.04	0.80
3	Dadar & Nagar Haweli (incl. Daman & Diu)	0.00	0.01	0.23	0.35	0.23	0.35
4	Delhi	0.27	4.82	0.47	35.03	0.74	39.85
5	Jammu & Kashmir	0.16	0.10	3.61	4.60	3.77	4.70
6	Ladakh	0.00	0.00	0.13	0.03	0.13	0.03
7	Lakshdweep	0.03	0.00	0.04	0.00	0.07	0.00
8	Puduchery	0.01	0.01	0.23	0.39	0.23	0.40
	Total	17.51	19.09	314.30	473.99	331.81	493.08
	Grand Total	36.59		788.30		824.89	

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

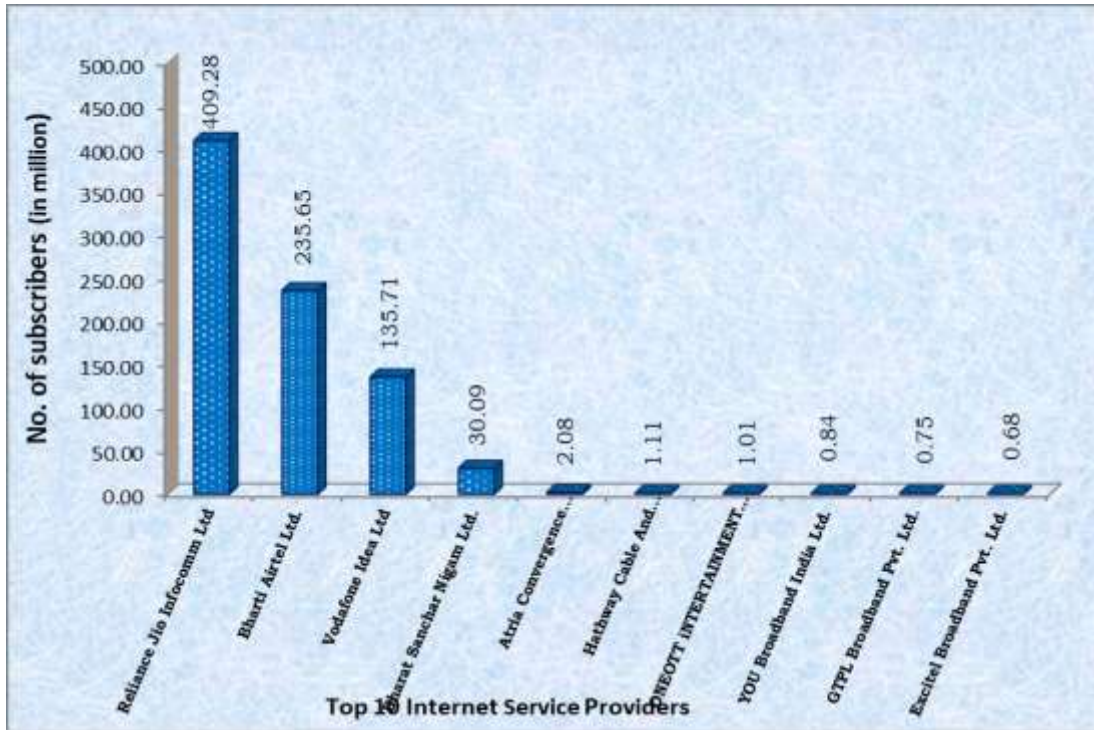
S.No	ISP	No. of Subscribers (In million)	Share (%)
1	Reliance Jio Infocomm Ltd	409.28	49.62
2	Bharti Airtel Ltd.	235.65	28.57
3	Vodafone Idea Ltd	135.71	16.45
4	Bharat Sanchar Nigam Ltd.	30.09	3.65
5	Atria Convergence Technologies Pvt. Ltd.	2.08	0.25
6	Hathway Cable And Datacom Limited	1.11	0.13
7	ONEOTT iNTERTAINMENT LIMITED	1.01	0.12
8	YOU Broadband India Ltd.	0.84	0.10
9	GTPL Broadband Pvt. Ltd.	0.75	0.09
10	Excitel Broadband Pvt. Ltd.	0.68	0.08
Total of Top 10 ISPs		817.20	99.07
Others		7.69	0.93
Grand Total		824.89	100

1.47 Reliance Jio holds the top position with 49.62% of market share of internet subscribers followed by Bharti Airtel Ltd with 28.57% at the QE Mar-22. M/s Vodafone Idea Ltd held the third position in respect of internet subscriber base with market share of 16.45%.

1.48 Out of total 660 internet service providers, top 10 Service Providers together hold 99.07% of total internet subscriber base at the QE Mar-22. Detailed table of number of internet subscriber base (broadband and narrowband) of all the service providers is available at **Annexure-1.5**.

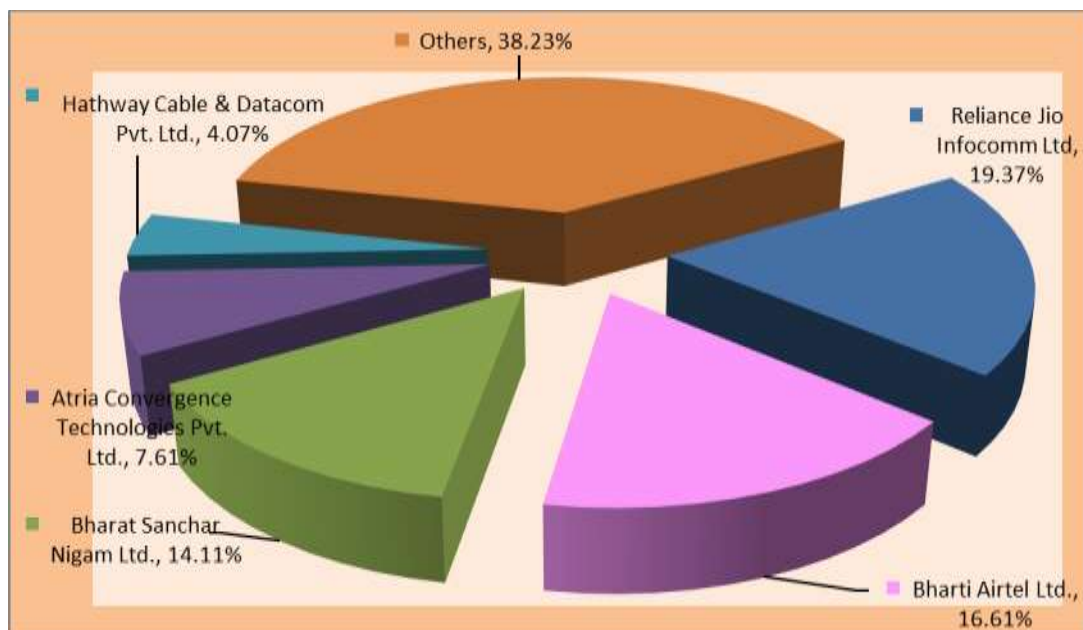
1.49 The following chart depicts the internet subscriber base of top ten Internet Service Providers (ISPs) in the QE Mar-22.

Chart 1.17 : Subscriber base of top ten ISPs



1.50 Out of total 27.27 million wired internet subscribers, Reliance Jio Infocomm Ltd holds 19.37% market share with 5.28 million subscribers, followed by Bharti with 4.53 million subscribers.

Chart 1.18 : Composition of Wired Internet subscribers



1.51 In wireless internet segment, Reliance Jio holds 50.65% market share with 403.99 million subscribers followed by Bharti Airtel Ltd with 28.98% and 231.13 million wireless internet subscribers at the QE Mar-22.

Chart 1.19 : Composition of Wireless Internet subscription

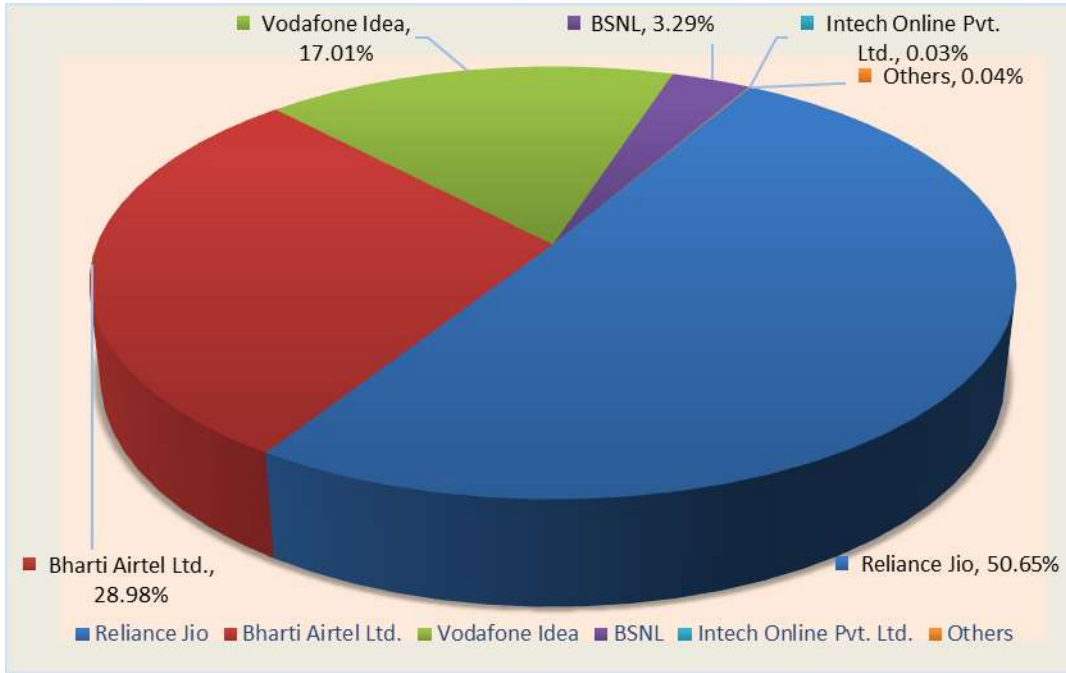


Chart 1.20 : Technology trend for Wireless Internet Access

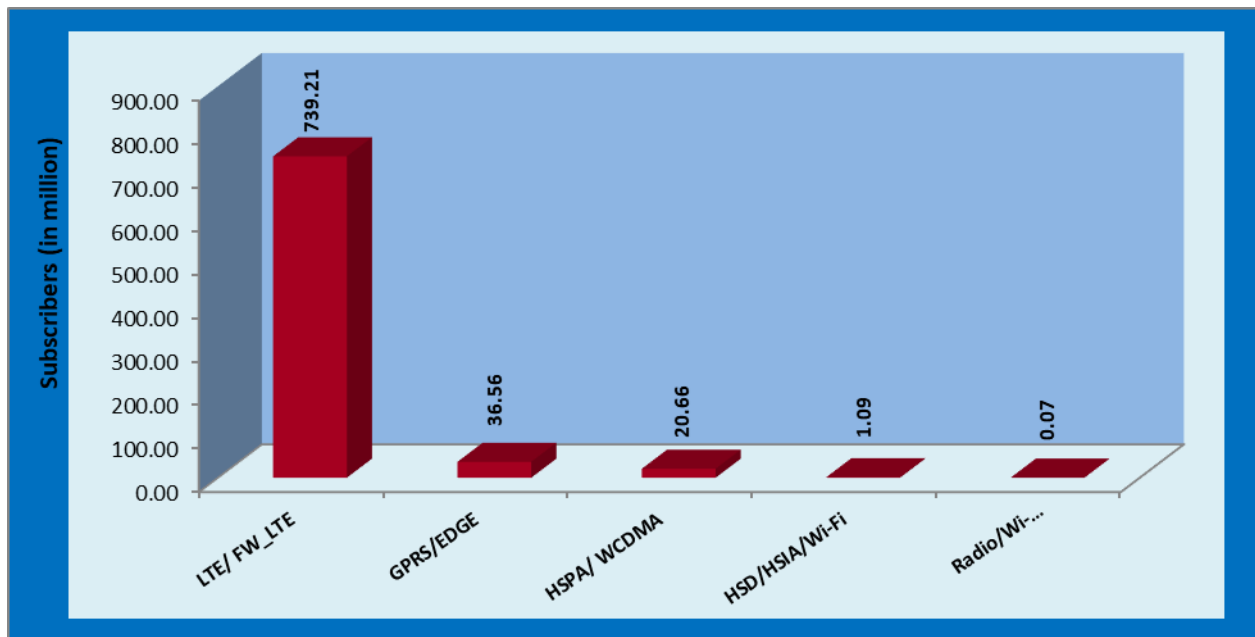
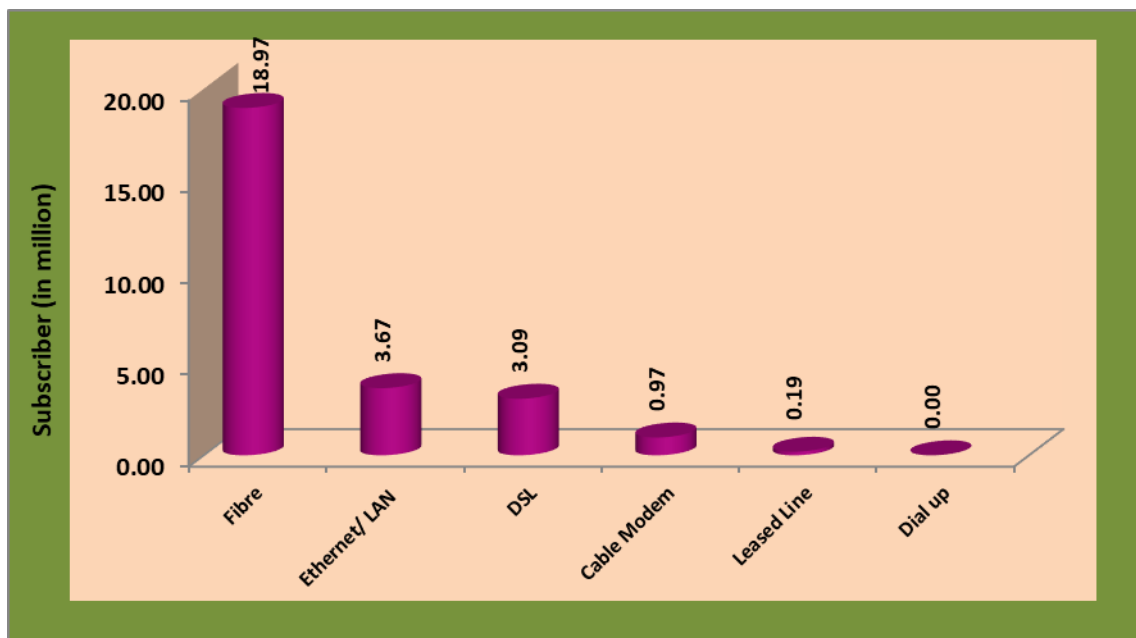


Chart 1.21: Technology trend for Wired Internet Access



1.52 Top five service areas in terms of internet subscriptions (wired+wireless) are Maharashtra (71.14 million), U.P.(East) (63.52 million), Andhra Pradesh (62.05 million), Bihar (58.70 million) and Madhya Pradesh (56.82 million).

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

Service Area	Internet Subscribers (in million)			No. of Internet subscribers per 100 population		
	Rural	Urban	Total	Rural	Urban	Total
Andhra Pradesh	27.13	34.92	62.05	50.18	94.53	68.18
Assam	9.68	6.30	15.98	32.32	115.25	45.13
Bihar	37.34	21.36	58.70	26.93	84.04	35.77
Delhi	0.80	45.92	46.71	-	-	222.47
Gujarat	16.52	34.99	51.51	44.88	99.72	71.64
Haryana	8.07	10.37	18.44	46.20	83.55	61.72
Himachal Pradesh	3.89	2.38	6.27	58.40	311.18	84.39
Jammu & Kashmir	3.90	4.73	8.63	40.48	113.07	62.48
Karnataka	17.45	30.64	48.10	46.28	103.55	71.46
Kerala	14.32	16.10	30.42	150.78	61.42	85.18
Madhya Pradesh	23.64	33.18	56.82	28.58	101.29	49.20

Service Area	Internet Subscribers (in million)			No. of Internet subscribers per 100 population		
	Rural	Urban	Total	Rural	Urban	Total
Maharashtra	29.94	41.20	71.14	47.42	113.44	79.51
Mumbai	1.02	28.86	29.88			
North East	4.65	4.36	9.01	45.20	81.71	57.67
Orissa	13.69	7.20	20.90	38.14	87.18	47.31
Punjab	8.78	17.71	26.49	49.11	127.48	83.39
Rajasthan	21.17	23.18	44.35	35.89	109.10	55.28
Tamil Nadu	15.47	40.43	55.90	42.62	96.34	71.42
UP (East)	35.20	28.32	63.52	28.51	89.78	43.48
UP (West)	17.57	25.45	43.02			
Kolkata	1.21	16.55	17.76	34.07	97.43	57.20
West Bengal	20.36	18.92	39.28			
Total	331.81	493.08	824.89	37.06	102.82	60.00

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

Notes:

- No. of total internet subscribers per 100 population is derived from the subscriber data provided by the operators and the and the projection of population from the 'Report of the Technical Group on Population Projections for India and States 2011 - 2036', which is available under the link https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf
- 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 1.33 : State/UT wise number of Internet Subscribers per 100 population at the end of Mar-22

S.N.	State(s)	Total Subscribers (In million)			Tele-density (%)		
		Rural	Urban	Total	Rural	Urban	Total
1	Andhra Pradesh	15.79	15.93	31.73	46.51	83.72	59.88
2	Arunachal Pradesh	0.46	0.33	0.79	39.72	83.79	50.92
3	Assam	9.68	6.31	15.98	32.32	115.28	45.14
4	Bihar	28.62	14.02	42.64	26.07	91.81	34.09
5	Chattisgarh	7.09	8.02	15.12	32.46	100.13	50.61
6	Goa	0.63	1.28	1.91	160.14	109.10	121.95
7	Gujarat	16.29	34.63	50.93	44.54	101.44	72.01
8	Haryana	8.11	13.32	21.43	46.47	107.29	71.74
9	Himachal Pradesh	3.89	2.38	6.27	58.40	311.03	84.38
10	Jharkhand	8.72	7.34	16.06	30.20	72.35	41.17
11	Karnataka	17.45	30.64	48.10	46.28	103.55	71.46
12	Kerala	14.24	16.10	30.34	150.03	61.57	85.13
13	Madhya Pradesh	16.55	25.16	41.72	27.18	101.71	48.71
14	Maharashtra	30.33	68.77	99.10	46.73	113.51	78.97
15	Manipur	0.86	1.14	2.01	39.75	111.32	62.78
16	Meghalaya	1.09	0.66	1.75	41.44	96.45	52.78
17	Mizoram	0.46	0.65	1.11	83.76	96.14	90.54
18	Nagaland	0.87	0.61	1.48	70.60	62.11	66.83
19	Odisha	13.69	7.20	20.90	38.14	87.18	47.31
20	Punjab	8.74	16.92	25.66	48.92	133.46	84.00
21	Rajasthan	21.17	23.18	44.35	35.89	109.11	55.28
22	Sikkim	0.25	0.29	0.54	67.91	90.89	78.75
23	Tamil Nadu incl. Chennai	15.24	40.03	55.27	42.54	98.03	72.10
24	Telangana	11.33	18.98	30.32	56.37	106.01	79.75
25	Tripura	0.90	0.96	1.87	35.53	61.43	45.42
26	Uttar Pradesh (UPE+UPW)	48.89	52.41	101.29	27.51	93.93	43.38
27	Uttarakhand	3.89	4.49	8.38	52.34	109.74	72.70
28	West Bengal incl. Kolkata	21.20	35.07	56.27	33.79	97.67	57.05
Union Territories							
1	Andaman & Nicobar Islands	0.13	0.10	0.24	58.31	59.16	58.68
2	Chandigarh	0.04	0.80	0.83	-	-	68.14
3	Dadar & Nagar Haweli (incl. Daman & Diu)	0.23	0.35	0.58	102.71	37.60	49.58
4	Delhi	0.74	39.85	40.59	-	-	193.31
5	Jammu & Kashmir	3.77	4.70	8.47	40.02	114.75	62.67
6	Ladakh	0.13	0.03	0.16	61.24	36.27	53.71
7	Lakshdweep	0.07	0.00	0.07	-	-	108.65
8	Puduchery	0.23	0.40	0.63	48.68	35.14	39.19
Total		331.81	493.08	824.89	37.06	102.82	60.00

ISP Connectivity

1.53 The International Internet bandwidth owned by various service providers is reported to be 27,468 Gbps during the quarter ending Mar-22 as compared to 26,391 Gbps during the previous quarter.

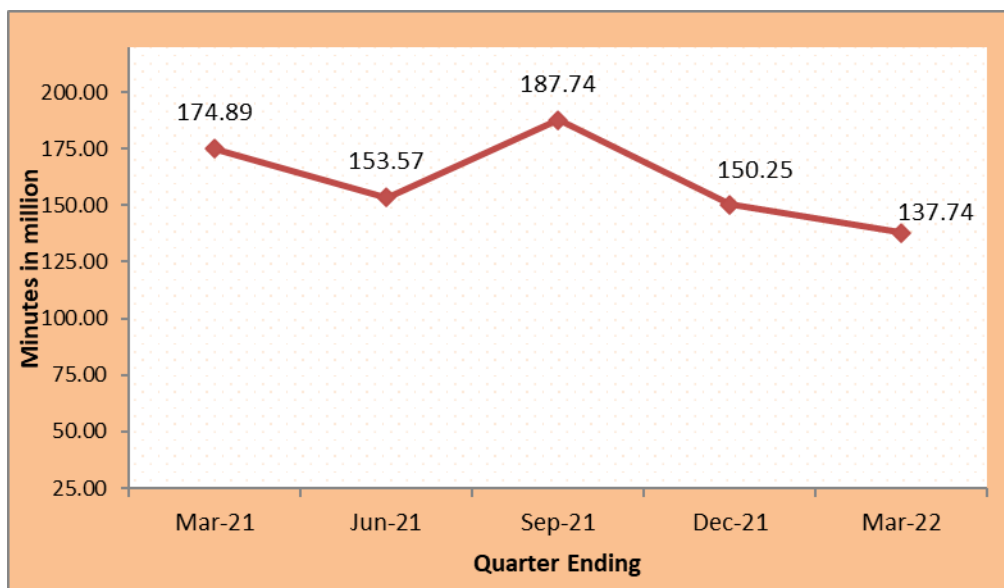
Public WiFi Hotspot

1.54 A public Wi-Fi hotspot is an area where you can access Wi-Fi enabled internet. These areas are usually created in places such as malls, coffee shops, airports, stadiums, and parks to name a few information on Public Wi-Fi Hotspots. Telecom Service Area-wise details of Public Wi-Fi Hotspots, as on 31st March 2022, at **Annexure-1.6**.

Internet Telephony

1.55 As per the reports received from 13 service providers, providing Internet Telephony services, the total outgoing minutes of usage for internet telephony decreased from 150.25 million minutes at the end of Dec-21 to 137.74 million minutes at the end of Mar-22. List of Internet Telephony Service providers is available at **Annexure-1.7**.

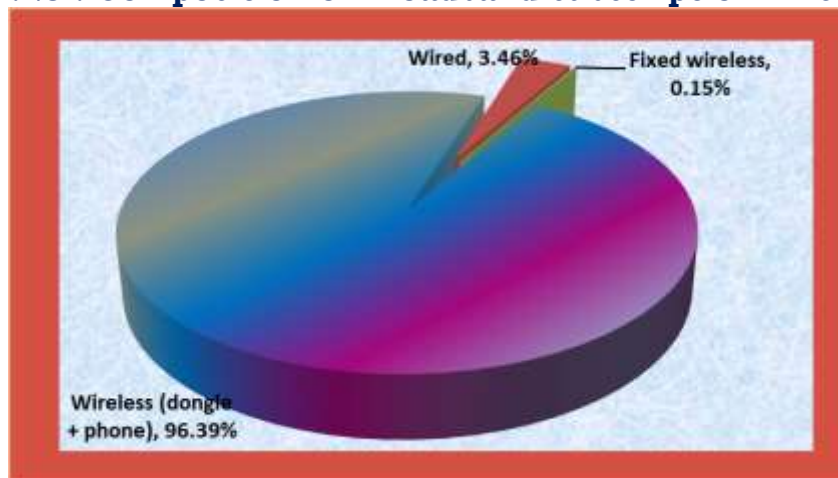
Chart 1.22 : Trends in MOU for Internet Telephony



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

- 1.56 The total number of broadband subscribers decreased from 792.08 million at the end of Dec-21 to 788.30 million at the end of Mar-22. Out of which number of wired broadband subscribers are 27.25 million and wireless broadband subscribers are 761.05 million.
- 1.57 Top five broadband (wired+wireless) service providers in term of subscribers are Reliance Jio 409.28 million, Bharti Airtel 215.27 million, Vodafone Idea Ltd 122.48 million, BSNL 27.19 million and Atria Convergence 2.08 million.
- 1.58 In wired broadband segment, Reliance Jio Infocomm Ltd. holds 19.39% market share with 5.28 million subscribers followed by Bharti Airtel Ltd. with 4.53 million subscribers in QE Mar-22.
- 1.59 In wireless broadband segment, Reliance Jio holds 53.08% market share with 403.99 million subscribers followed by Bharti Airtel Ltd 27.69% with 210.75 million subscribers in QE Mar-22.
- 1.60 Top five service areas in respect of broadband subscriptions at Q.E. Mar-22 are Maharashtra 68.77 million, U.P.-East 59.99 million, Andhra Pradesh 59.22 million, Bihar 55.78 million and Madhya Pradesh 54.83 million.

Chart 1.23 : Composition of Broadband subscription – Technology wise



1.61 Mobile Device Users (dongle+phone) constitute 96.39% of total broadband subscribers at the end of Mar-22.

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

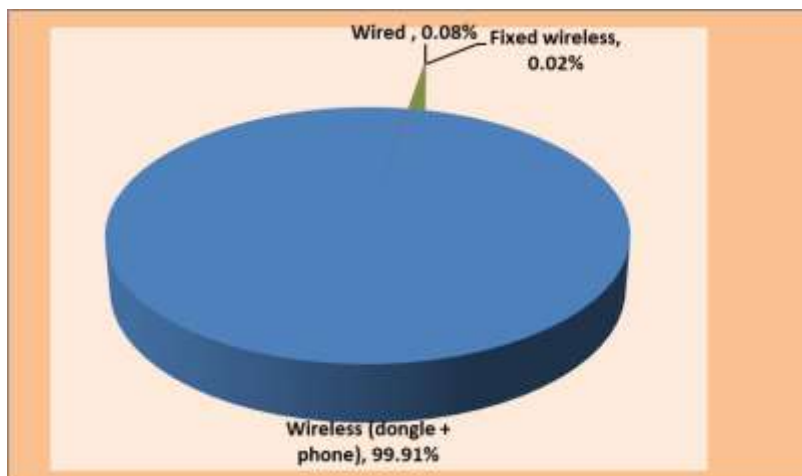
1.62 Total number of narrowband subscribers declined from 37.21 million at the end of Dec-21 to 36.59 million at the end of Mar-22 with the quarterly decline rate of 1.66%. Out of 36.59 million narrowband subscribers, Wired Narrowband subscribers are 0.03 million and Wireless Narrowband subscribers are 36.57 million.

1.63 The top five narrowband (wired+wireless) service providers in term of subscriber base are Bharti Airtel 20.38 million, Vodafone Idea Ltd 13.23 million, BSNL 2.90 million, MTNL 0.06 million and YOU Broadband India Ltd. 0.01 million at the end of Mar-22.

1.64 In wired narrowband segment, YOU Broadband India Ltd. hold 52.11% market share with 0.014 million subscribers followed by Broadband Pacenet (I) Pvt. Ltd. with 0.010 million subscribers.

1.65 In wireless narrowband segment, Bharti Airtel holds 55.74% market share with 20.38 million subscribers followed by Vodafone Idea Ltd with 13.23 million subscribers.

Chart 1.24 : Composition of Narrowband subscription – Technology wise



Section E : Other Value Added Services - PMRTS & VSAT

Public Mobile Radio Trunk Services (PMRTS)

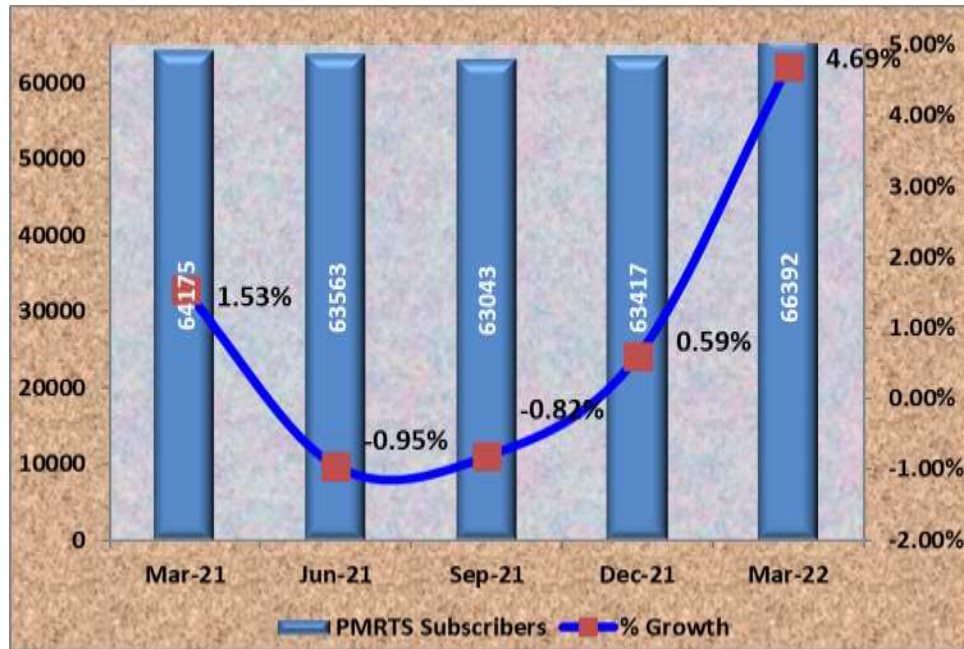
1.66 The subscriber base of PMRTS increased from 63,417 at the end of Dec-21 to 66,392 at the end of Mar-22 with quarterly growth rate of 4.69%.

Table 1.34 : PMRTS Subscriber base - Service Provider wise

Sl. No	Name of the Service Provider	Subscriber Base as on 31.12.2021	Subscriber Base as on 31.03.2022	Net Addition	% Growth in subscribers in QE Mar-22
1	Arya Omnitalk Radio Trunking Services Pvt. Ltd.	52,294	54,838	2,544	4.86
2	Procall Ltd.	3,475	3,510	35	1.01
3	Quick Call	2,026	2,033	7	0.35
4	Inative Networks Pvt Ltd	1,820	1,820	0	0.00
5	Smartalk Pvt Ltd	1,578	1,699	121	7.67
6	Bhilwara Telenet Services Pvt Ltd	872	926	54	6.19
7	Wiwonet Solutions Pvt Ltd	857	1,041	184	21.47
8	Airtalk Solutions & Services Pvt Ltd	495	525	30	6.06
Total		63,417	66,392	2975	4.69

1.67 Detailed table on Service Area wise subscriber base of PMRTS as on 31st March, 2022 is available at **Annexure-1.8**.

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



Very Small Aperture Terminal (VSAT)

1.68 The total number of VSAT subscribers decreased from 2,88,848 at the end of Dec-21 to 2,79,333 at the end of Mar-22. Net decrease during the quarter has been 9,515 at the decline rate of 3.29%.

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



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

Sr. No	Name of Service Providers	Subscriber base at the Quarter ending		Net Addition	%age Growth	Market Share (%) Mar-22
		Dec-21	Mar-22			
1	Hughes Communications Ltd.	135,374	194,823	59,449	43.91%	69.75%
2	Bharti Airtel Limited	60,211	-	-60,211	-100.00%	0.00%
3	Nelco Ltd.	76,166	74,710	-1,456	-1.91%	26.75%
4	BSNL	6,709	7,122	413	6.16%	2.55%
5	HCL Comnet	7,784	63	-7,721	-99.19%	0.02%
6	Infotel Satcom	2,554	2,565	11	0.43%	0.92%
7	Cloudcast Digital (earthwhile Planetcast Media Services)	50	50	0	0.00%	0.02%
Total		2,88,848	2,79,333	-9,515	-3.29	100

Note: Transfer/Merger of VSAT CUG Service Authorizations under Unified License held by M/s Bharti Airtel Limited and the satellite spectrum assets relating to VSAT CUG Service Authorizations and NLD Service Authorization under Unified License held by M/s Bharti Airtel Limited to M/s Hughes Communications India Private Limited, w.e.f. 04.01.2022 vide DoT letter File No.AS-21/1/2020-Office of DIR (AS-V)-Part-1, dated 14.01.2022.

1.69 Hughes Communications Ltd. is the market leader having 194,823 subscribers with market share of 69.75% followed by Nelco Ltd. having 74,710 subscribers with market share of 26.75% at the end of Mar-22.

1.70 In term of net addition, Hughes Communication Limited added maximum number of VSAT subscribers 59,449 subscribers during the QE Mar-22. Except Hughes Communication Limited, BSNL and Infotel Satcom, all other service providers have registered decline in their VSAT subscribers during the quarter.

Chapter 2 :

Revenue and Usage

Wireless Services

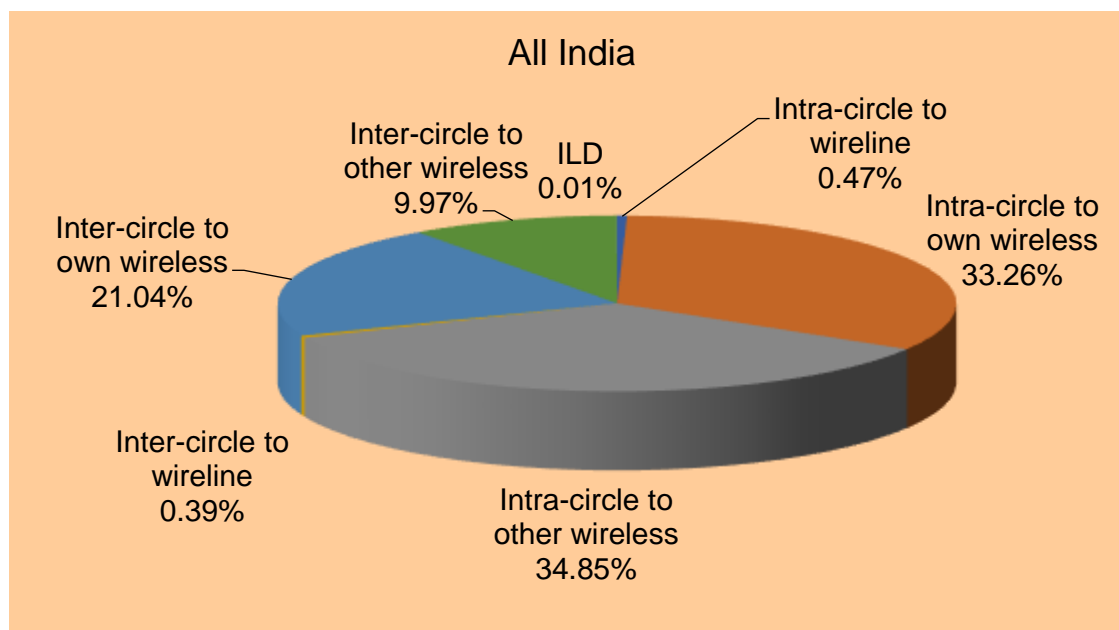
-
- For all the parameters, Metros indicate data for Delhi, Mumbai & Kolkata. Data for Chennai service area has been included in Circle A, as part of TN.
 - ARPU arrived after adjusting interconnect usage charges and roaming settlement charges.
 - The data contained in this section covers the licensees, who have been providing service during the entire period from 1st January, 2022 to 31st March, 2022 in the various service areas.

Table 2.1: Key Indicators – Wireless Services

Parameter	Mar-22	Dec-21	Mar-21	QoQ %age change	YoY %age change
Share of Prepaid (%)	93.05%	93.62%	95.04%	-0.61%	-2.09%
Incoming MOU per subscriber per month	447	427	411	4.69%	8.71%
Outgoing MOU per subscriber per month	508	427	406	18.93%	25.08%
No. of Outgoing SMS per subscriber per month	13.46	14.13	15.68	-4.74%	-14.17%
Average Revenue Per User (ARPU) per month (Rs.)	127.17	114.16	103.58	11.40%	22.77%

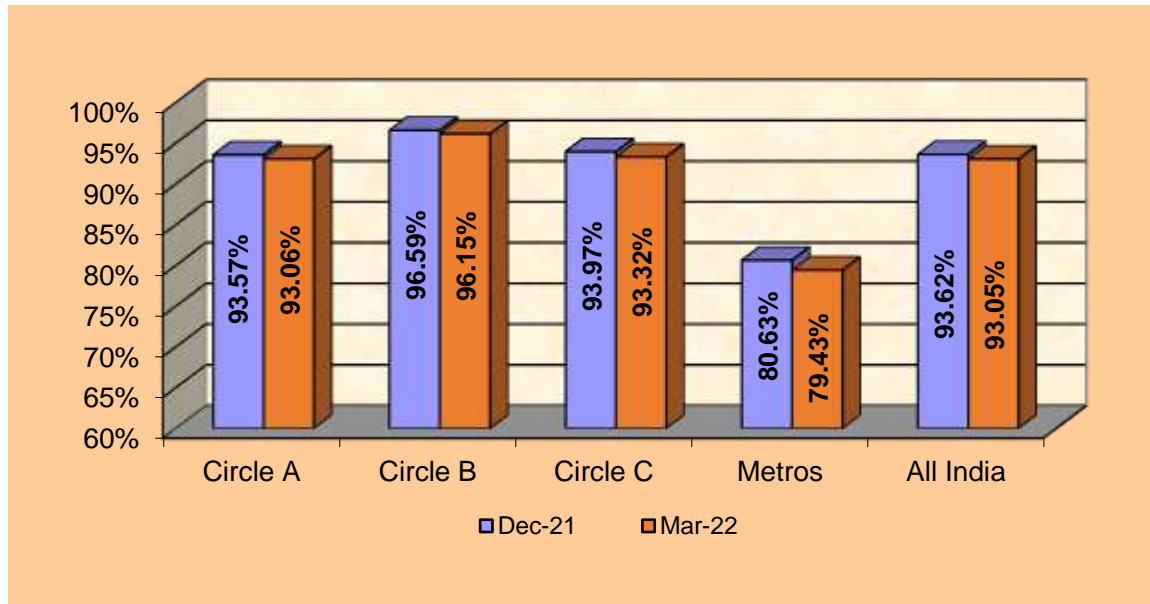
2.1 The following chart presents % break-up of outgoing minutes from Home Service Area (HSA) in the QE Mar-22.

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



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

Chart 2.2: Proportion of prepaid subscribers



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

- 2.3 The market share of pre-paid segment has decreased from 93.62% at the end of December-2021 to 93.05% at the end of March-2022.
- 2.4 The ARPU per month (all India blended) increased from Rs.114.16 in QE Dec-21 to Rs.127.17 in QE Mar-22 with quarterly growth rate of 11.40%. Year-on-Year basis, ARPU per month increased by 22.77% in this quarter.
- 2.5 The ARPU per month for pre-paid segment is Rs.121.91 and ARPU per month for postpaid segment is Rs.200.56 in QE Mar-22.
- 2.6 The following table presents the ARPU per month for various categories of circles and various platforms for payment viz. post-paid and pre-paid.

Table 2.2: Monthly ARPU – Wireless Services in QE Dec-21

Circle Category	ARPU per month (in Rs.)		
	Post-paid	Pre-paid	Blended
Circle A	240.42	139.32	146.08
Circle B	186.44	114.96	117.57
Circle C	195.02	119.19	124.03
Metros	167.64	91.21	106.55
All India	200.56	121.91	127.17
All private SPs	204.81	130.38	135.64
BSNL/MTNL	122.17	50.46	52.87

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

Table 2.3: Composition of ARPU per month - Wireless Services

S. No.	Item	Revenue (excl. service tax) per subscriber per month (in Rs.)	Share of total revenue from subscribers
1	Usage from Home Service Area		
1.1.	Rental Revenue	0.79	0.58%
1.2.	Revenue from calls	15.02	11.14%
1.3.	Revenue from SMS	0.12	0.09%
1.4.	Revenue from data usage	114.62	85.01%
1.5.	Revenue from other VAS	1.37	1.02%
1.6.	Other revenue	2.14	1.59%
2	Usage outside Home Service Area		
2.1.	Revenue from out-roamers	0.78	0.58%
3	Total revenue from subscribers (1+2)	134.84	100%
4	Net inter-operator settlement charges receivable *	-7.67	
5	Net Revenue (ARPU) per month (3+4)	127.17	

* includes Interconnect Usages Charges and roaming settlement charges

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

- 2.8 From the above table, it may be seen that the net inter-operator settlement charges payable (Rs. 7.67) accounted for 5.69% of the total revenue from subscribers in the Q.E. March - 2022.
- 2.9 On an all-India average, the overall MOU per subscriber per month increased by 11.81% from 854 in Q.E. December-2021 to 955 in Q.E. March-2022.
- 2.10 The following table presents the total MOU (usage from, and outside, the home service area) per subscriber per month for various categories of circles and various platforms for payment viz. post-paid and pre-paid during Q.E. Mar-22.

Table 2.4: MOU per subscriber per month - QE Mar-22

Circle category	MOU per subscriber per month								
	Post-paid			Pre-paid			Blended		
	Outgoing MOU	Incoming MOU	Total MOU	Outgoing MOU	Incoming MOU	Total MOU	Outgoing MOU	Incoming MOU	Total MOU
Circle A	374	293	668	473	403	876	466	395	862
Circle B	557	385	942	501	452	953	503	450	952
Circle C	675	432	1107	634	593	1227	637	583	1219
Metro	230	187	417	534	456	990	473	402	875
All India	418	304	721	515	458	972	508	447	955

Note: MOU indicates total usage i.e. usage from and outside HSA

- 2.11 The overall ratio of incoming MOUs and outgoing MOUs for the Q.E. Mar-22 is 47:53.
- 2.12 Average number of Outgoing SMS per subscriber per month is 13 in Q.E. March-2022. The following table presents the outgoing SMS usage (usage from and outside, the home service area) per subscriber per month for various categories of circles and various categories of subscribers viz. post-paid and pre-paid during Q.E. March - 2022.

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

Circle category	Outgoing SMS per subscriber per month		
	Post-paid	Pre-paid	Blended
Circle A	34	13	14
Circle B	23	11	12
Circle C	16	16	16
Metro	32	11	15
All India	28	12	13

Note: No. of Outgoing SMS indicate total usage i.e. usage from and outside HSA

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

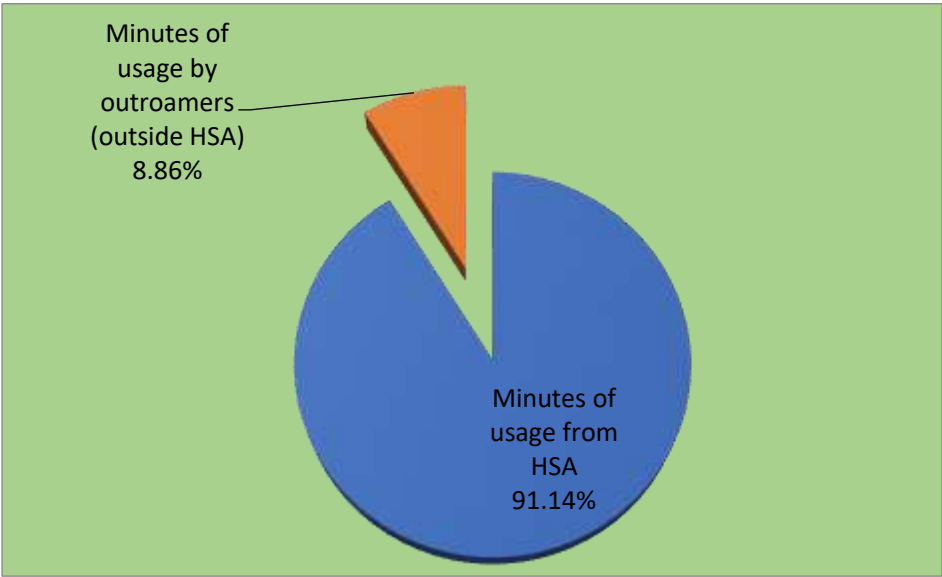
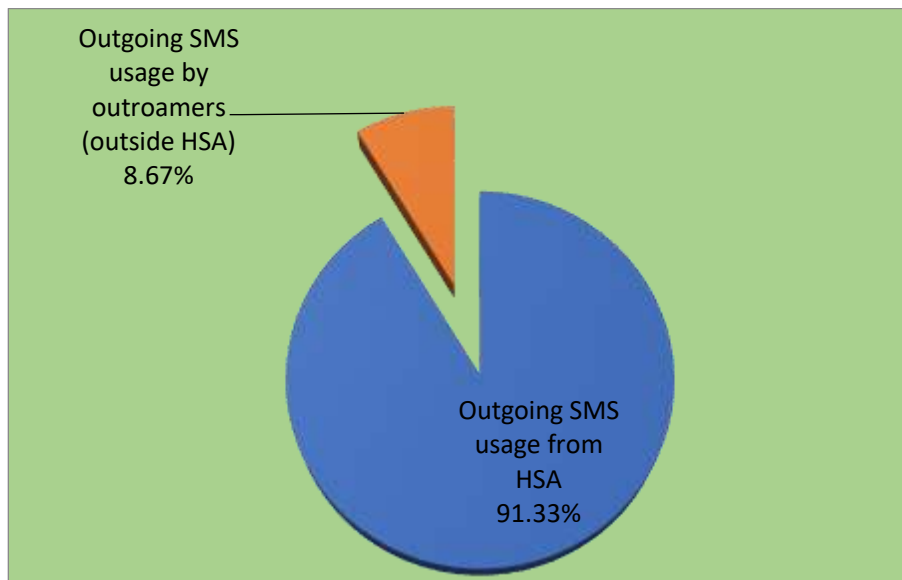


Chart 2.4: Outgoing SMS Usage by Out-roamers as a % of Total No. of Outgoing SMS Usage during Q.E. Mar-2022



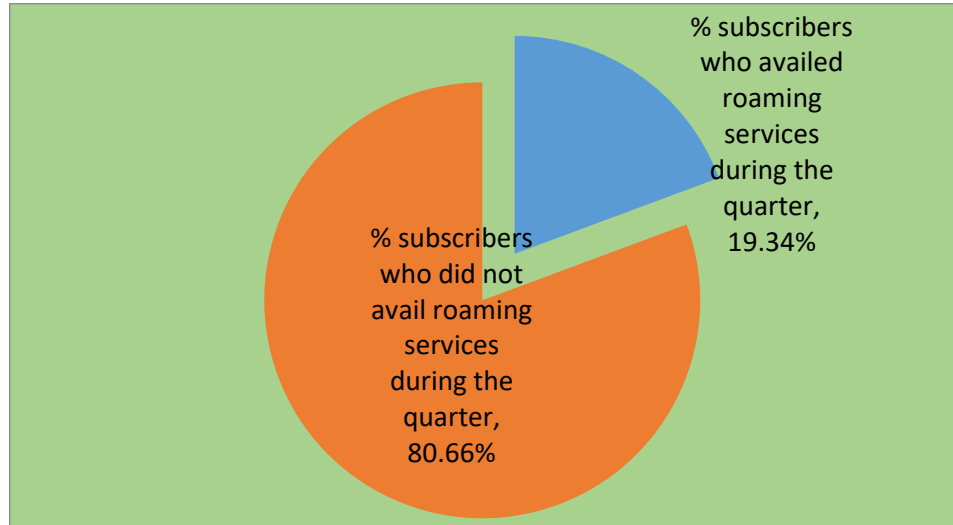
2.13 The following table presents the percentage break-up of outgoing minutes of usage from home service area between various categories of termination networks in the Q.E. Mar-22.

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

Category	% Intra-circle to wireline	% Intra-circle to own wireless	% Intra-circle to other wireless	% Inter-circle to wireline	% Inter-circle to own wireless	% Inter-circle to other wireless	% ILD
Circle A	0.50	34.65	38.60	0.30	19.12	6.82	0.01
Circle B	0.46	32.66	35.31	0.44	21.08	10.04	0.01
Circle C	0.32	35.56	29.90	0.37	22.85	10.98	0.00
Metros	0.80	25.54	29.38	0.56	24.15	19.54	0.03
All India	0.47	33.26	34.85	0.39	21.04	9.97	0.01

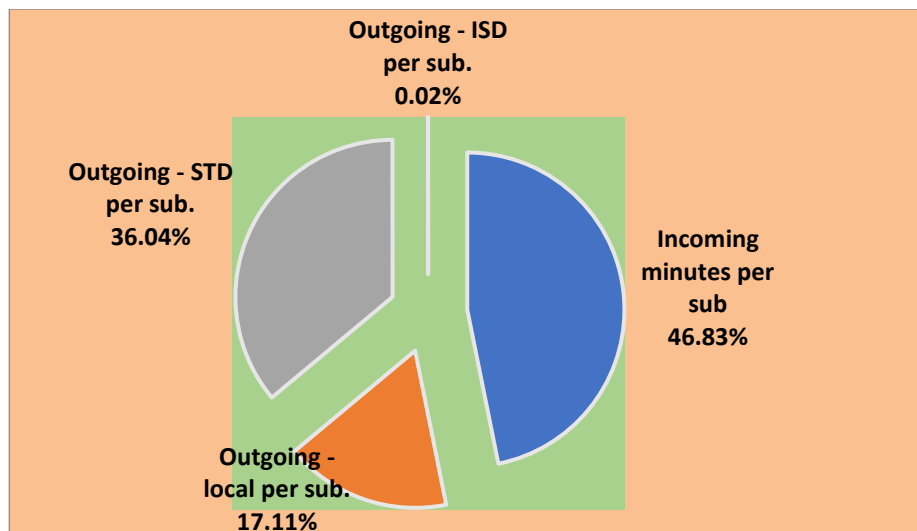
2.14 The following chart presents the share of outroamers (who had availed roaming services) as a percentage of total subscribers during Q.E. Mar-22.

Chart 2.5: % Share of outroamers as a percentage of total subscribers during Q. E. March – 2022



2.15 The usage pattern of outroamers i.e. usage from outside the home service area shows that incoming minutes accounts for 46.83% of the total minutes of usage by outroamers in Q.E. March - 2022 as against 46.53% in the Q.E. December - 2021. The chart given below presents the break-up of minutes of usage of outroamers.

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



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

Average Revenue per Outgoing Minute of usage from HSA

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

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

(In Rs. per minute)

Circle Category	Postpaid	Prepaid	Blended
Circle A	0.04	0.04	0.04
Circle B	0.02	0.03	0.03
Circle C	0.01	0.03	0.03
Metros	0.06	0.03	0.03
All India	0.03	0.03	0.03

2.17 All India average revenue per outgoing minute is reduced to 0.03 in Q.E March - 2022 from 0.04 in Q.E. December - 2021.

Table 2.8: Trends of Key Parameters - Wireless Services

Parameter	Mar-21	Jun-21	Sep-21	Dec-21	Mar-22
1. ARPU (Rs. Per month)	103.58	104.66	108.16	114.16	127.17
2. Average revenue Realization per subscriber per GB wireless data (in Rs.)	10.77	9.80	9.53	9.91	10.47
3. MOU per subscriber per month	818	813	827	854	955
4. Outgoing MOU per subscriber per month					
4.1 Local (Intra-circle)	306	313	312	319	332
4.2 NLD (inter-circle)	100	94	102	108	176
4.3 ILD	0.06	0.05	0.05	0.05	0.05
5. Average no. of Outgoing SMS per subscriber per month	16	15	15	14	13
6. Average revenue per outgoing minute from HSA (in Rs.)	0.05	0.04	0.04	0.04	0.03

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

Chapter 3 :

Financial Data of Telecom Service Sector

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

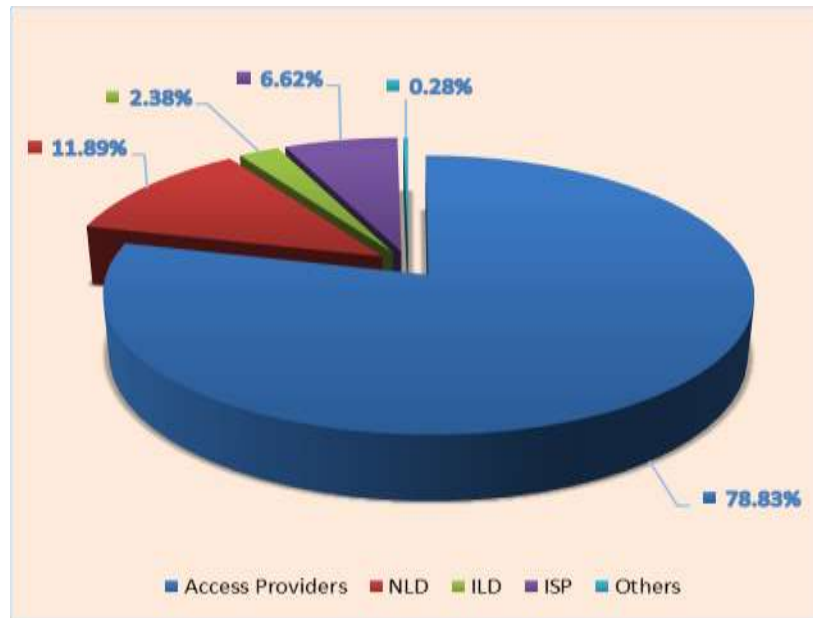
Particulars	QE Mar-21 (Rs. in Crore)	QE Dec-21 (Rs. in Crore)	QE Mar-22 (Rs. in Crore)	Q-O-Q % Change	Y-O-Y % Change
Gross Revenue (GR)	66,784	69,695	76,387	9.60	14.38
Adjusted Gross Revenue (AGR)	48,587	55,151	58,886	6.77	21.20
Pass Through Charges (GR-AGR)	18,196	14,544	17,501	20.33	-3.82
License Fee (LF)	3,979	4,541	4,712	3.76	18.44
Spectrum Usage Charges (SUC)	1,540	1,760	1,926	9.44	25.04

- 3.1 Gross Revenue (GR) increased by 9.60% and Adjusted Gross Revenue (AGR) increased by 6.77% during QE Mar-22. On YoY basis also GR increased by 14.38% and AGR increased by 21.20% in QE Mar-22.
- 3.2 Pass through charges increased by 20.33% in QE Mar-22, however, on YoY basis it is decreased by 3.82%.
- 3.3 Pass-through charges as a percentage of Gross Revenue are 22.91% in QE Mar-22 as against 20.87% in the previous quarter.

Table 3.2: Service-wise Gross Revenue, Adjusted Gross Revenue, License Fee, Spectrum Charges and PTC for QE Mar-22
(in Rs. Crore)

Service	GR	AGR	LF	SUC	PTC
Access Providers	59,709.94	46,421.09	3,715.06	1,921.76	13,288.86
NLD	8,273.56	7,001.09	560.08	-	1,272.47
ILD	3,034.60	1,399.84	113.08	-	1,634.76
ISP	5,190.75	3,898.60	311.99	-	1,292.15
Others	177.98	165.66	11.96	4.34	12.31
Total	76,386.83	58,886.29	4,712.17	1,926.09	17,500.54

Chart 3.1: Composition of Adjusted Gross Revenue



3.4 Access services contributed 78.83% of the total Adjusted Gross Revenue of telecom services. In Access services, Gross Revenue (GR), Adjusted Gross Revenue (AGR), License Fee, Pass Through Charges and Spectrum Usage (SUC)¹¹ increased by 10.02%, 8.13%, 8.16%, 17.19%, and 9.44% respectively in QE Mar-22.

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

Service Provider	QE Dec-21	QE Mar-22	% Change
Reliance Jio	19063.75	20659.90	8.37
Bharti Airtel	14484.48	16005.16	10.50
Vodafone Idea	6541.83	7209.57	10.21
BSNL	1984.94	1750.58	-11.81
Tata Tele.	530.21	533.74	0.67
MTNL	254.78	183.24	-28.08

¹¹ Spectrum Usage Charge is payable by the licensees providing mobile access services, as a percentage of their Adjusted Gross Revenue (AGR).

(Source – DoT License Agreement)

Service Provider	QE Dec-21	QE Mar-22	% Change
Reliance Com.	61.69	68.80	11.52
V-Con Mobile & Infra Pvt. Ltd.	-4.80	14.69	406.18
Tata Play Fiber	0.00	0.95	0.00
Quadrant	13.22	-5.53	-141.86
Fusion Net	0.00	0.00	0.00
Grand Total (Access)	42930.10	46421.09	8.13

3.5 Public Sector Undertakings' share in the Access AGR of telecom services is 4.17% in the QE Mar-22.

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

Category	AGR of Access Services for QE Mar-22 (in crore)	%age share of AGR
Metro	4,697.09	10.12
A	17,748.25	38.23
B	17,238.14	37.13
C	6,737.61	14.51
Total	46,421.10	100

Notes: -

1. Figures are un-audited and as submitted by the TSPs.
2. A copy of quarterly Statement(s) of Revenue and Licence Fee and Spectrum Charges filed with the licensor(DoT) is submitted by Telecom Service Providers to TRAI in reference to TRAI's Order No.14-11/2009-FA, dated 9th August, 2010.
3. The figures have been re-grouped wherever considered necessary for analysis purpose.
4. Percentage of contribution of Five TSPs of Public Sector (BSNL, MTNL, Rail Tel, Power Grid, Oil India and Bharat Broadband) to AGR in NLD Service and two TSPs of Public Sector (BSNL/MTNL) in Access Services and BSNL in ILD Services.
5. For all the parameters metros indicate data for Delhi, Mumbai and Kolkata. Data for Chennai Service Area has been included as part of Tamil Nadu
6. From this quarter onwards ISPs is not included in 'Others'.

Chapter 4 : Quality of Service (QoS)

Section A: Quality of Service of Cellular Mobile Service Providers

Table 4.1: QoS Summary - Cellular Mobile Service

Summary of Performance of Service providers against identified parameters

S. No.	Parameters	Bench mark	Performance in respect of UASL/CMTS Licensees for the Parameters and Benchmarks			
			For Quarter Ending December, 2021		For Quarter Ending March, 2022	
			Out Of 88 (Nos.)	Out Of 88 (%)	Out Of 88 (Nos.)	Out Of 88 (%)
I.	Network Related Parameters					
1	Network Availability					
(i)	BS Accumulated down-time (not available for service) (%age)	≤ 2%	0	0%	0	0%
(ii)	Worst affected BSs due to down-time (%age)	≤ 2%	0	0%	0	0%
2	Connection Establishment (Accessibility)					
(i)	Call Set-up Success Rate and Session Establishment Success Rate for Circuit Switched Voice or VoLTE as applicable(within licensee's own network)	≥ 95%	0	0%	0	0%
(ii)	SDCCH/ Paging Channel Congestion/ RRC Congestion (%age)	≤ 1%	0	0%	0	0%
(iii)	TCH, RAB and E-RAB congestion (%age)	≤ 2%	0	0%	0	0%
3	Connection Maintenance (Retain ability)					
(i)	Network QoS DCR Spatial Distribution Measure [Network_QSD (90,90)]	≤ 2%	1	1.14%	0	0%
(ii)	Network QoS DCR Temporal Distribution Measure [Network_QTD (97,90)]	≤ 3%	1	1.14%	0	0%
4	Connections with good voice quality, Circuit Switched Voice Quality and VoLTE quality	≥ 95%	0	0%	0	0%
5	Point of Interconnection (POI) Congestion (No. of POIs not meeting the benchmark) (Averaged over a period of quarter)	≤ 0.5%	0	0%	0	0%

6	Down Link (DL) Packet Drop Rate or DL-PDR	$\leq 2\%$	0	0%	0	0%
7	Up Link (UL) Packet Drop Rate or UL-PDR	$\leq 2\%$	0	0%	0	0%
II.	Customer Service Quality Parameters					
8	Metering and Billing					
(i)	Metering and billing credibility - post paid	$\leq 0.1\%$	0	0%	0	0%
(ii)	Metering and billing credibility - pre paid	$\leq 0.1\%$	0	0%	0	0%
(iii)	Resolution of billing/charging/validity complaints	98% within 4 weeks	0	0%	0	0%
	Resolution of billing/charging/validity complaints	100% within 6 weeks	0	0%	0	0%
(iv)	Period of applying credit/waiver/adjustment to customer's account from the date of resolution of complaints	within 1 week of resolution of complaint	0	0%	0	0%
9	Response time to the customer for assistance					
(i)	Accessibility of call centre/customer care	$\geq 95\%$	0	0%	2	2.27%
(ii)	%age of calls answered by the operators (voice to voice) within 90 seconds	$\geq 95\%$	3	3.41%	8	9.09%
10	Termination/closure of service					
(i)	%age requests for Termination / Closure of service complied within 7 days	100% within 7 days	8	9.09%	0	0%
(ii)	Time taken for refund of deposits after closures	100% within 60 days	0	0%	0	0%

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

- i. Network QoS DCR Spatial Distribution Measure [Network_ QSD (90,90)] $\leq 2\%$
- ii. Network QoS DCR Temporal Distribution Measure [Network_ QTD (97,90)] $\leq 3\%$

- iii. %age requests for Termination / Closure of service complied within 7 days

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

- i. Accessibility of call centre/customer care $\geq 95\%$
- ii. %age of calls answered by the operators (voice to voice) within 90 Seconds

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

Parameter	Benchmark	Service Provider	Service Area	Performance in QE March 2022 (in %)
Accessibility of call centre/ customer care	$\geq 95\%$	BSNL	Andhra Pradesh	88.50
			Karnataka	93.18
Percentage of calls answered by the operators (voice to voice) within 90 seconds	$\geq 95\%$	Airtel	Assam	94.00
			Kolkata	88.00
			North East	94.00
			Tamil Nadu	90.00
			West Bengal	85.00
		BSNL	Andhra Pradesh	37.45
			Karnataka	21.54
			Tamil Nadu	89.34

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

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

Table 4.3: QoS Summary - Wireline Service

Summary of Performance of service providers against identified parameters

S. No.	Parameters	Benchmark	No of license areas where operators not meeting the benchmarks			
			December, 2021		March, 2022	
			Out of 101 In Nos.	Out of 101 In %age	Out of 102 In Nos.	Out of 102 In %age
(i)	“Fault repair” Fault incidences No. of faults per 100 subs/month)	≤ 7	0	0.00%	0	0.00%
(ii)	% Fault repaired by next working day (for urban areas)	≥ 85%	4	3.96%	2	1.96%
	% Fault repaired within 5 days (for urban areas)	≥100%	2	1.98%	2	1.96%
(iii)	% Fault repaired by next working day (for rural and hilly areas)	≥ 75%	0	0.00%	0	0.00%
	% Fault repaired within 7 days (for rural and hilly areas)	≥100%	0	0.00%	0	0.00%
(iv)	“Mean time to Repair” (MTTR)	≤10Hs	3	2.97%	2	1.96%
(v)	“Point of Interconnection” (POI) Congestion (No. of PoIs not meeting benchmark)	≤ 0.5%	0	0.00%	0	0.00%
(vi)	“Metering and Billing” Metering and billing credibility - post-paid	≤ 0.1%	0	0.00%	0	0.00%
	Metering and Billing credibility -pre-paid	≤ 0.1%	0	0.00%	0	0.00%
(vii)	Resolution of billing/charging /Credit & validity complaints	98% within 4 weeks	0	0.00%	0	0.00%
	Resolution of billing/charging / Credit & validity complaints	100% within 6 weeks	0	0.00%	0	0.00%
(viii)	Period of applying credit /waiver/adjustment to customer's	1 week of resolution of complaint	0	0.00%	0	0.00%
(ix)	“Response time to the customer for assistance”	≥ 95%	1	0.99%	0	0.00%

	Accessibility of call centre/ customer care					
	%age of calls answered by the operators (voice to voice) within 90 seconds	≥ 95%	11	10.89%	2	1.96%
(x)	“Termination / closure of service”- %age of request for Termination / closure of service complied within 7 days	100% within 7 days	1	0.99%	2	1.96%
(xi)	Time taken for refund of deposits after closures	100% within 60 days	5	4.95%	4	3.92%

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

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

- i. % Fault repaired by next working day (for urban areas) ≥ 85%
- ii. Mean time to Repair” (MTTR) ≤10Hs
- iii. Accessibility of call centre/ customer care ≥ 95%
- iv. %age of calls answered by the operators (voice to voice) within 90 seconds ≥ 95%
- v. Time taken for refund of deposits after closures 100% within 60 days

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

- i. “%age of request for Termination / closure of service complied within 7 days 100% within 7 days.

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

Parameters	Benchmarks	Service Provider	Service areas	Parameters not met
% of faults repaired by next working day	For urban areas by next working day: $\geq 85\%$	MTNL	Delhi	70.34%
			Mumbai	71.00%
% of faults repaired within 5 days	For urban areas: $\geq 100\%$	MTNL	Delhi	90.65%
			Mumbai	87.90%
Mean Time to Repair (MTTR)	≤ 10 Hrs	MTNL	Delhi	13.33
			Mumbai	23.37
Percentage of calls answered by the operators (voice to voice) within 90 seconds	$\geq 95\%$	Bharti Airtel	Kerala	92.00%
			Tamil Nadu	93.00%
%age requests for Termination / Closure of service complied within 7 days	100% within 7 days	MTNL	Mumbai	99.84%
		Tata	Karnataka	99.00%
Time taken for refund of deposits after closures	100% within 60 days	BSNL	Himachal Pradesh	96.50%
			Punjab	98.60%
			Rajasthan	0.00%
		MTNL	Mumbai	29.93%

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

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

- 4.7 There are 611 Service Providers providing broadband (wireline) service at the end of March, 2022. Total number of broadband (wireline) subscriber base of all the broadband service providers is 2,72,46,440 in quarter ending March, 2022 as compared to 2,64,29,851 in quarter ending December, 2021.
- 4.8 Out of 611 broadband service providers providing broadband (wireline) service, only 80 service providers are having subscriber base more than 10,000 subscribers and share 97.77% of total subscriber base in this quarter. The total number of broadband subscribers (wireline) of service providers having more than 10,000 subscriber base, has increased from 2,51,32,423 at the end of December, 2021 (for 80 service providers) to 2,66,39,690 at the end of March, 2022 (for 80 service providers).
- 4.9 This report covers performance of 73 broadband service providers' vis-à-vis the QoS benchmarks prescribed by TRAI. Service providers namely M/s. Digital Satellite Connect Pvt. Ltd., M/s. GTPL KCBPL Broadband Private Limited, M/s Kernel Fibernet Online Network Pvt Ltd., M/s Sristi Sanchar Webnet Ltd., M/s Wan and Lan Internet Pvt. Ltd., M/s Weebo Networks Pvt Ltd. (6 ISPs) and one new entrant M/s. Pacenet Meghbela Broadband Pvt. Ltd. have not submitted their Performance Monitoring Report (PMR) in this quarter.

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

S. No.	Parameters	Benchmark	Quarter Ending		Quarter Ending	
			December, 2021		March, 2022	
			Out of 118	Out of 118	Out of 137	Out of 137
1	Service Provisioning	100% in =<15 working days				
1.2	%age of connections provided within 15 days of registration of demand	100%	2	1.69%	1	0.73%
2	Faults Repair					
2.2	% of faults repaired by next working day (>90%)	>90%	2	1.69%	1	0.73%
2.3	% of faults repaired within 3 working day	=>99%	3	2.54%	3	2.19%
3	Billing Performance					
3.3	%age of bills disputed	<2%	0	0.00%	0	0.00%
3.4	%age of billing complaints resolved within 4 weeks	100% within 4 weeks	0	0.00%	0	0.00%
3.5	%age of cases to whom refund of deposits is made within 60 days of closures	100% within 60 days	2	1.69%	2	1.46%
4	Response Time to the Customer for assistance					
4.2	%age of calls answered by operator (Voice to voice) within 60 sec	>60%	0	0.00%	0	0.00%
4.3	%age of calls answered by operator (Voice to voice) within 90 sec	>80%	0	0.00%	1	0.73%
5	Bandwidth utilisation/ throughput					
5.2	No. of Intra network links having Bandwidth utilisation >90% during peak hours (TCBH)	0	0	0.00%	0	0.00%
5.4	No. of Upstream links for International connectivity having bandwidth utilisation >90% during peak hours (TCBH)	0	0	0.00%	0	0.00%
5.7	% International bandwidth utilization during peak hours (TCBH) (Enclose MRTG) <90%	<90%	0	0.00%	0	0.00%
5.8	Broadband Connection Speed available (download) from ISP node to user	>80%	0	0.00%	0	0.00%

S. No.	Parameters	Benchmark	Quarter Ending		Quarter Ending	
			December, 2021		March, 2022	
			Out of 118	Out of 118	Out of 137	Out of 137
6	Service availability /uptime (for all users) in %age					
6.3	Service availability /uptime (for all users) in %age	>98%	0	0.00%	0	0.00%
7	Packet loss (for wired broadband access) in %age	<1%	0	0.00%	0	0.00%
8	Network latency (for wired broadband access)					
8.1	User reference point at POP/ISP Gateway node to IGSP/NIXI	<120 ms	0	0.00%	0	0.00%
8.2	User reference point at ISP Gateway node to International nearest NAP port abroad (terrestrial)	<350 ms	0	0.00%	0	0.00%
8.3	User reference point at ISP Gateway node to International nearest NAP port abroad (satellite)	<800 ms	0	0.00%	0	0.00%

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

Sl. No.	Parameters	Benchmark	Name of the Service Provider not meeting the Benchmark
1	Service Provisioning		
1.2	%age of connections provided within 15 days of registration of demand	100%	MTNL - All India (87.74%)
2	Faults Repair		
2.2	% of faults repaired by next working day (>90%)	>90%	MTNL - All India (69.13%)
2.3	% of faults repaired within 3 working day	=>99%	MTNL - All India (82.71%), Tata (TTSL) - Karnataka (97.25%), TATA(TTML) - Mumbai. (97.21%)
3	Billing Performance		
3.5	%age of cases to whom refund of deposits is made within 60 days of closures	100% within 60 days	BSNL - All India (98.91%) MTNL - All India (64.51%)

4	Response Time to the Customer for assistance		
4.3	%age of calls answered by operator (Voice to voice) within 90 sec.	>80%	Atria Convergence - All India (77.21%)

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

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

Table 5.1: Key Parameters - Broadcasting & Cable TV Services

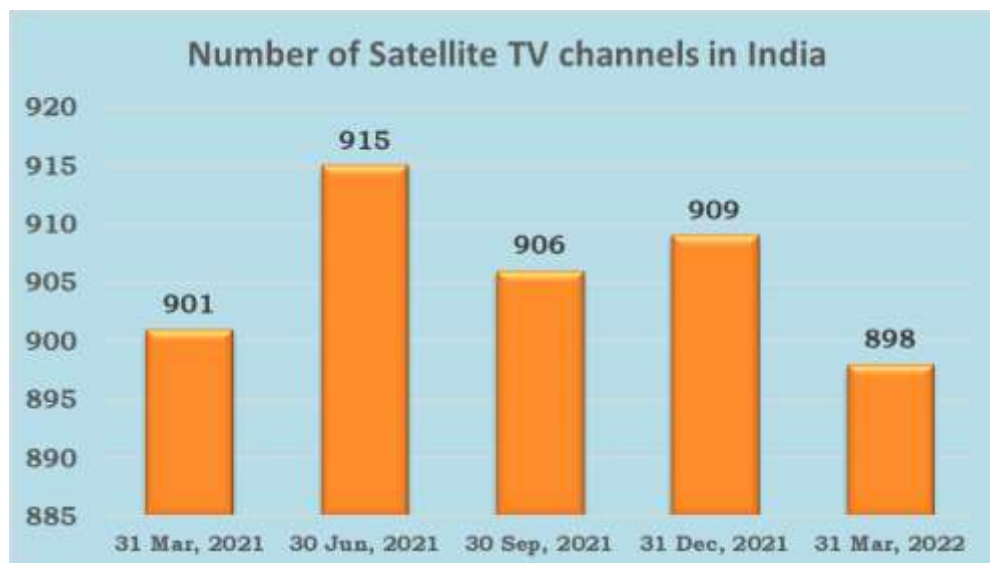
S.No	Parameter	Dec-21	Mar-22
1	Number of Private satellite TV channels permitted by the Ministry of Information and Broadcasting (MIB) for uplinking only/ downlinking only/both uplinking and downlinking	909*	898*
2	Number of Pay TV Channels as reported by broadcasters	350	345
3	Total number of Multi System Operators (MSOs), who have been granted Permanent Registration (for 10 years) by Ministry of I&B for providing Cable TV services through Digital Addressable Systems	1753#	1764#
4	Number of FM Radio Stations (excluding All India Radio)	386	386
5	Number of pay DTH Operators	4	4
6	Number of Operational Community Radio Stations	343	349
7	Number of total active Subscribers with pay DTH operators (in million)	68.52	66.92

* <https://new.broadcastseva.gov.in/digigov-portal-web-app/webHP?requestType=ApplicationRH&actionVal=userInformationSystem&screenId=2> (uploaded on 24.05.2022)
Source- https://mib.gov.in/all_broadcasting_documents

A. Satellite TV Channels

5.1 A total of approximately 898 private satellite TV channels have been permitted by the Ministry of Information and Broadcasting (MIB) for uplinking only/ downlinking only / both uplinking & downlinking. The total number of satellite TV channels is depicted in **Chart 5.1**. Further, the permission-wise number of permitted satellite TV channels is given in the **Table 5.2**.

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



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

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

Type of Permission	Number of channels	Remarks
Uplinking only	13	TV channels uplinked from India but downlinked abroad only
Downlinking only	69	TV channels uplinked from abroad but downlinked only in India
Both Uplinking & downlinking	816	TV channels uplinked from India and also downlinked only in India
Total	898	

Out of 898 permitted satellite TV channels, 885 channels are available for downlinking in India.

Pay TV Channels

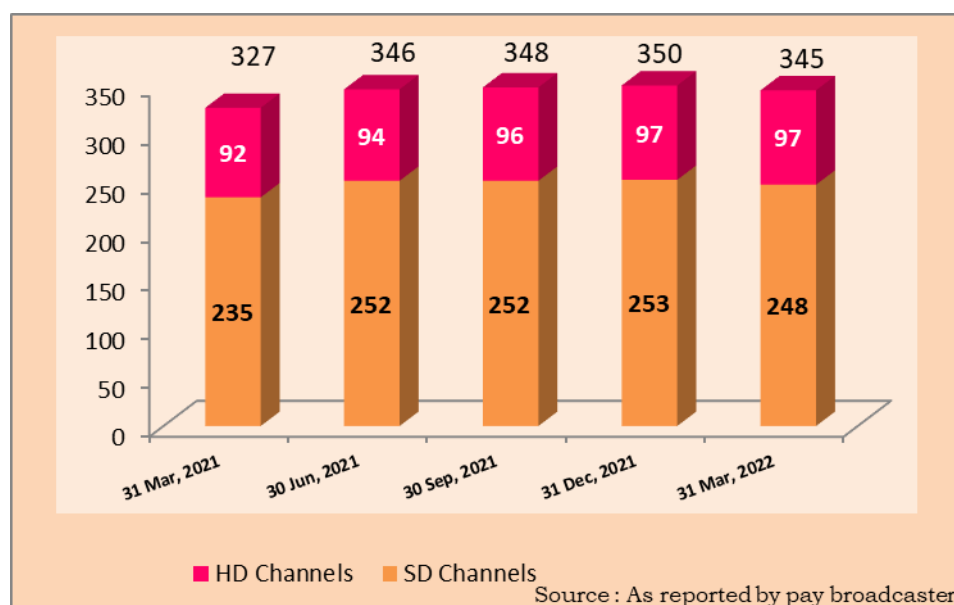
5.2 As per the reporting done by broadcasters in pursuance of the Tariff Order dated 3rd March 2017 as amended, out of 885 permitted satellite TV channels which are available for downlinking in India, there are 345 satellite pay TV channels as on 31st March 2022. Out of 345 pay channels, 248 are SD satellite 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. Chart-5.2 depicts total number of Pay satellite TV channels and FTA satellite TV channels available for downlinking in India during last one year. **Chart-5.3** depicts total number of SD satellite Pay TV channels and HD satellite Pay TV channels during last one year.

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



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



B. Cable TV Sector

5.3 As on 31st March 2022, there are 1764 MSOs registered with MIB. As per the data reported by MSOs and HITS operator, there are 12 MSOs & 1 HITS operator who have subscriber base greater than one million. A list of such major MSOs and HITS operators is attached as **Annexure 5.2**. Details of subscriber base of major MSO and HITS Operators (greater than one million) are given in following **Table 5.3:-**

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

Sl. No.	Name of the operator	Total Active Subscriber Base (includes subscribers who have been inactive or temporarily suspended for not more than last 90 days)
1.	GTPL Hathway Ltd	8,232,240
2.	Siti Networks Ltd	7,281,041
3.	Hathway Digital Ltd	5,455,919
4.	Den Networks Ltd	4,458,103
5.	Thamizhaga Cable TV Communication Pvt Ltd	3,856,930
6.	Kerala Communicators Cable Ltd	3,042,828
7.	Tamil Nadu Arasu Cable TV Corporation Ltd	2,641,641
8.	NXT Digital Ltd (HITS)	2,456,013
9.	KAL Cables Pvt. Ltd	2,058,720
10.	Fastway Transmissions Pvt Ltd	2,017,384
11.	V K Digital Network Pvt. Ltd	1,878,076
12.	NXT Digital Ltd (Cable TV)	1,394,481
13.	Asianet Digital Network Pvt. Ltd	1,142,778

C. Direct-to-Home (DTH) Sector

5.4 Since its introduction in the year 2003, Indian DTH service have displayed a phenomenal growth. During the quarter ending 31st March, 2022, there were 4 pay DTH service providers in India. A list of DTH Operators is attached as **Annexure 5.3**.

5.5 Pay DTH has attained total active subscriber base of around 66.92 million. This is in addition to the subscribers of the DD Free Dish (free DTH services of Doordarshan). The total active subscriber base has decreased from 68.52 million in December 2021 to 66.92 million in March 2022.

5.6 Quarterly growth in the DTH sector in terms of the total active subscriber base and market share of DTH operators in terms of percentage of total active subscribers during the quarter ending 31st March 2022 is depicted in the following charts: -

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

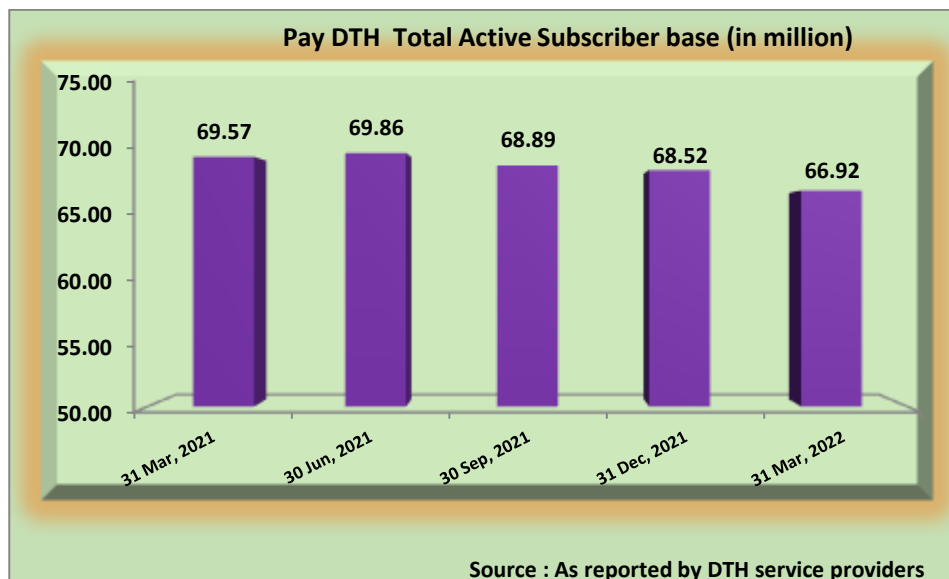
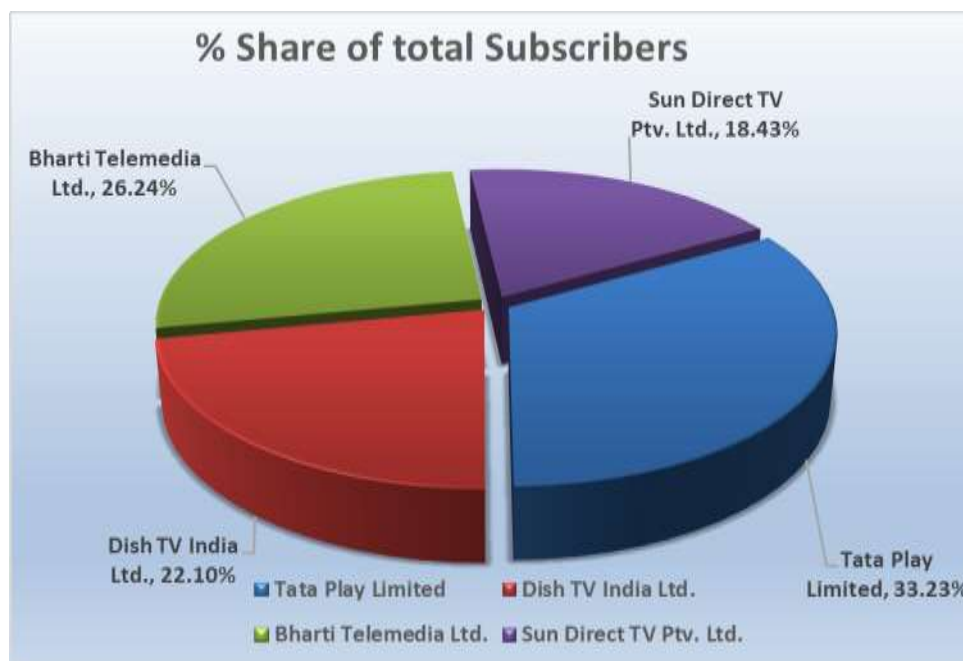


Chart 5.5 : Market share of DTH Operators



Source : As reported by DTH service providers

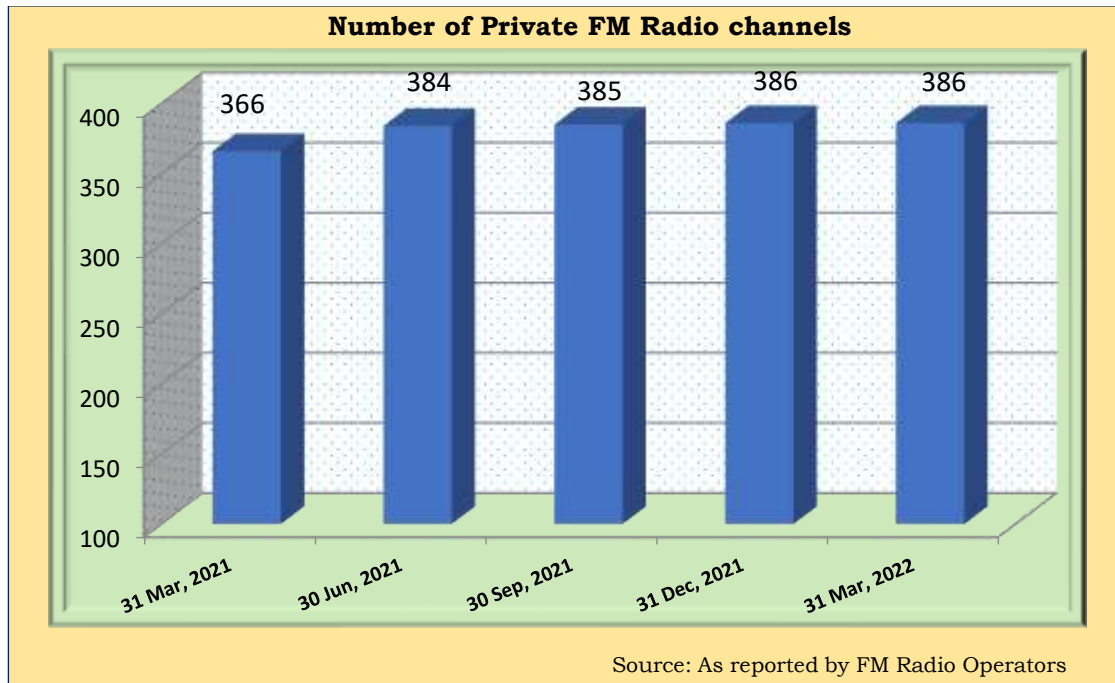
D. IPTV

As per information provided by the Ministry of Information and Broadcasting (MIB), as on 31.03.2022, there are 20 IPTV Operators. A list of such IPTV Operators is attached as **Annexure 5.4**. At presently, M/s Andhra Pradesh State Fibernet Ltd has reported a subscriber base of 7,50,306 at the end of March 2022.

E. FM Radio Services

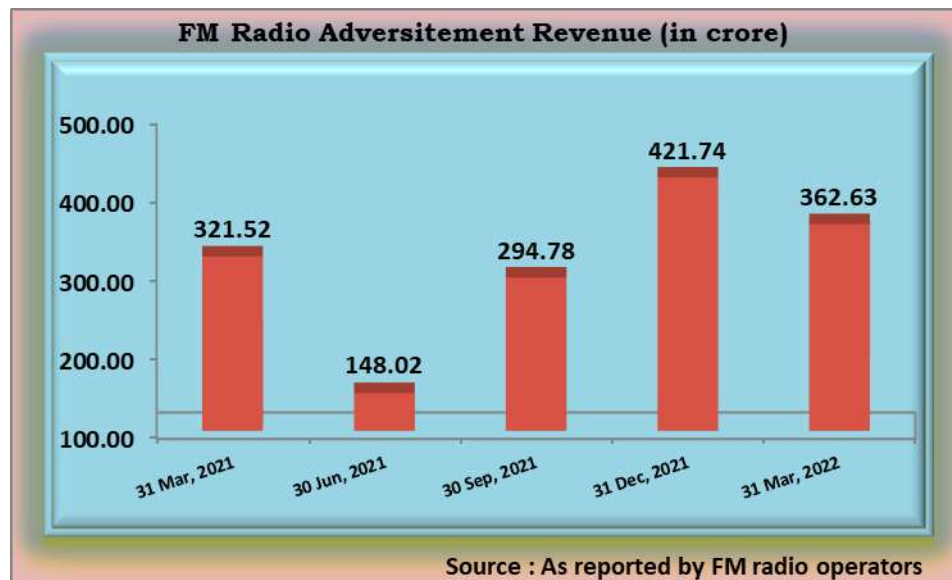
5.7 Apart from the radio channels operated by All India Radio – the public broadcaster, as per the data reported by FM Radio operators to TRAI, as on 31st March 2022, there are 386 operational private FM Radio channels in 113 cities operated by 36 private FM Radio operators.. A list of 113 existing cities with operational private FM radio channels in India, as on 31st March, 2022 is placed at **Annexure 5.5**. The following **chart 5.6** depicts the quarterly growth in private FM Radio stations.

Chart 5.6 : Number of Private FM Radio channels



5.8 The advertisement revenue reported by FM Radio operators during the quarter ending 31st March 2022 in respect of 386 private FM Radio channels is Rs 362.63 crore as against Rs 421.74 crore in respect of 386 private FM Radio channels for the previous quarter i.e. 31st December 2021.

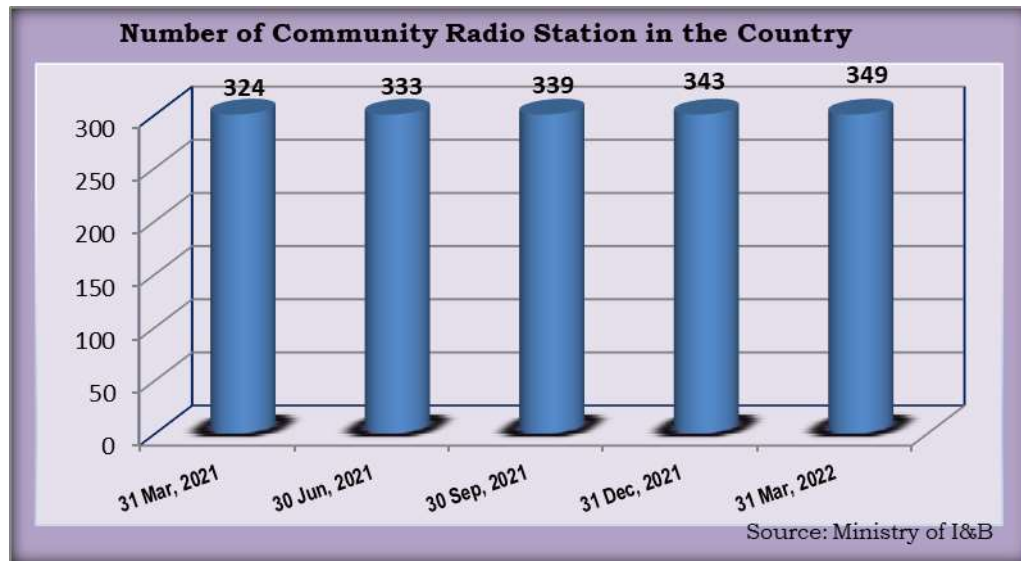
Chart 5.7: Details of Advertisement Revenue submitted by the private FM Radio broadcasters



F. Community Radio

5.9 As on 31st March, 2022, there are 349 Community Radio stations are operational. The quarterly growth in the number of operational community radio stations during last one year is depicted in the following **chart 5.8**.

Chart 5.8: Number of operational Community Radio Stations



Annexures

Annexure 1.1: Wireless Subscriber Base

Service Area	Vodafone Idea		Bharti Airtel (including Tata Teleservices)		Reliance Com.		BSNL		MTNL		Reliance Jio		Total		Net Additions
	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	
Andhra Pradesh	14241991	13692242	31441078	31366746	0		9250321	9299811			29977838	28761926	84,911,228	83,120,725	-1790503
Assam	2751705	2501259	9863684	10043796	0		3148812	3210135			8469432	8290308	24,233,633	24,045,498	-188135
Bihar	10577260	10189484	36617800	37414631	0		6055483	5438780			34164308	33276206	87,414,851	86,319,101	-1095750
Delhi	15994885	16130457	16083381	16235553	208	204			2153573	2152246	18363659	17752242	52,595,706	52,270,702	-325004
Gujarat	23790340	23787229	11706924	11978342	109	78	5557094	5584147			26419800	25949345	67,474,267	67,299,141	-175126
Haryana	7912039	7833440	5758268	5921655	19	19	5008936	4935801			8964965	8531886	27,644,227	27,222,801	-421426
Himachal Pradesh	581906	558401	3346476	3317454	93	93	2731558	2773564			3685363	3521078	10,345,396	10,170,590	-174806
Jammu & Kashmir	460394	430021	5585762	5632326	0	0	1314310	1321119			4440438	4566655	11,800,904	11,950,121	149217
Karnataka	8249302	7639731	30515006	30664024	691	653	6883854	6858477			20628775	19505818	66,277,628	64,668,703	-1608925
Kerala	16408387	15953380	7655543	7734058	185	165	10713151	10520191			9590349	9166678	44,367,615	43,374,472	-993143
Madhya Pradesh	20461601	19984148	15204073	15080492	0	0	6016461	6026898			35689111	35667197	77,371,246	76,758,735	-612511
Maharashtra	28665552	28714243	20034296	20274742	0	0	6626836	6656723			37083113	36653409	92,409,797	92,299,117	-110680
Mumbai	11587899	11837333	9457931	9693295	1380	1270			1103707	1096405	12027759	11637672	34,178,676	34,265,975	87299
North East	1217071	1099337	5541403	5628807	0	0	1355620	1358731			3889037	3831508	12,003,131	11,918,383	-84748
Orissa	2002780	1829944	11054462	11069813	66	54	6230390	6262887			13887968	13366795	33,175,666	32,529,493	-646173
Punjab	8871081	8546865	11698618	11909677	144	117	5340564	5301931			11889299	11227549	37,799,706	36,986,139	-813567
Rajasthan	11463411	11073954	21437654	21819804	183	170	6339200	6545223			24090835	23746244	63,331,283	63,185,395	-145888
Tamil Nadu	18029076	17928621	28022805	27403128	317	293	9999921	9718797			24899646	23801100	80,951,765	78,851,939	-2099826
UP(E)	20531856	20543055	35978842	37152947	0	0	11135129	11047872			32816775	31861176	100,462,602	100,605,050	142448
UP(W)	19033068	18762746	17844869	18499362	21	9	5707962	5955327			21620210	20868507	64,206,130	64,085,951	-120179
Kolkata	6313538	6076759	5551034	5709242	2	0	2282912	2260124			10207503	9726519	24,354,989	23,772,644	-582345
West Bengal	16369180	15662083	15369706	15781370	316	222	2659841	2665422			22910130	22284113	57,309,173	56,393,210	-915963
Total	265,514,322	260,774,732	355,769,615	360,331,264	3,734	3,347	114,358,355	113,741,960	3,257,280	3,248,651	415,716,313	403,993,931	1,154,619,619	1,142,093,885	-12525734

Annexure 1.2: Wireline Subscriber Base

Sl. No	Service Area	Bharti Airtel		Reliance Com.		Quadrant		Tata Tele.		MTNL		BSNL		Vodafone Idea		Reliance Jio		Total		Net Additions
		Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	Dec-21	Mar-22	
1	Andhra Pradesh	331146	352032	20421	20035			156777	156683			685587	692320	61800	65410	612321	708510	1,868,052	1,994,990	126,938
2	Assam	0	0	0	0			0	0			102699	103782	3090	2820	84138	102291	189,927	208,893	18,966
3	Bihar	0	0	20	9			7821	8152			178530	167828	1740	1890	213702	261865	401,813	439,744	37,931
4	Delhi	1726905	1773430	29875	28539			138496	138455	1292016	1284568	-	-	86377	84260	529284	617697	3,802,953	3,926,949	123,996
5	Gujarat	141669	160949	3466	3420			77024	77575			426891	393836	43306	43986	336570	382794	1,028,926	1,062,560	33,634
6	Haryana	39709	48246	0	0			33788	32688			182248	184984	360	330	60652	69179	316,757	335,427	18,670
7	Himachal Pradesh	0	0	0	0			1587	1563			87852	88425	30	30	26389	31160	115,858	121,178	5,320
8	Jammu & Kashmir	34236	40024	0	0			0	0			104446	101378	30	30	126060	139539	264,772	280,971	16,199
9	Karnataka	876762	920943	23731	22923			245416	246903			871076	879553	93657	121757	429875	511274	2,540,517	2,703,353	162,836
10	Kerala	74927	79432	4838	4666			18668	18781			1062807	1054283	8770	8960	130981	153820	1,300,991	1,319,942	18,951
11	Madhya Pradesh	339682	354987	95	5			10951	12164			289096	281090	9500	16560	314866	370286	964,190	1,035,092	70,902
12	Maharashtra	240718	276161	10683	10148			213806	211678			736465	701616	24673	25463	145434	163694	1,371,779	1,388,760	16,981
13	Mumbai	461513	478389	53726	50549			480526	481882	1462573	1,409,070	0	0	107871	106951	533097	583164	3,099,306	3,110,005	10,699
14	North East	0	0	0	0			0	0			80197	80057	330	330	70448	84129	150,975	164,516	13,541
15	Orissa	0	0	4	4			8353	7990			190624	188482	3670	3710	101190	126797	303,841	326,983	23,142
16	Punjab	179032	186740	1668	1578	211745	266799	13223	13882			257504	313453	2100	2040	145064	166589	810,336	951,081	140,745
17	Rajasthan	128159	139265	4007	3981			12197	12822			296733	292244	15200	15700	195944	225772	652,240	689,784	37,544
18	Tamil Nadu	650686	672072	23321	21915			117937	118938			1033111	1026022	37880	38570	426886	471395	2,289,821	2,348,912	59,091
19	U.P.(E)	110259	100907	20	20			7979	8159			187383	146270	20070	16780	239448	278805	565,159	550,941	-14,218
20	U.P.(W)	78709	96213	7	7			4427	4450			200908	196937	3250	4246	254497	300745	541,798	602,598	60,800
21	Kolkata	167235	170510	6516	6310			45924	45506			389729	382575	9930	12535	234916	281928	854,250	899,364	45,114
22	West Bengal	0	0	12	12			2410	2548			229754	233895	120	120	120837	141138	353,133	377,713	24,580
	Total	5,581,347	5,850,300	182,410	174,121	211,745	266,799	1,597,310	1,600,819	2,754,589	2,693,638	7,593,640	7,509,030	533,754	572,478	5,332,599	6,172,571	23,787,394	24,839,756	1,052,362

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

Sl. No.	Name of Telecom Service Area	Service Provider	Number of PCOs as on 30.12.2021	Number of PCOs as on 31.03.2022	Net PCO increase/decrease as on 31.03.2022	Percentage Growth/Decline as on 31.03.2022
1	Andhra Pradesh	Bharat Sanchar Nigam Limited	5,421	5,428	7	0.13%
		Bharti Airtel	181	181	0	0.00%
2	Assam	Bharat Sanchar Nigam Limited	512	508	-4	-0.78%
3	Bihar	Bharat Sanchar Nigam Limited	2,625	2,605	-20	-0.76%
4	Delhi	Bharti Airtel	330	330	0	0.00%
		MTNL	6,906	6,686	-220	-3.19%
5	Gujarat	Bharat Sanchar Nigam Limited	3,239	2,640	-599	-18.49%
		Bharti Airtel	14	14	0	0.00%
6	Haryana	Bharat Sanchar Nigam Limited	348	291	-57	-16.38%
		Bharti Airtel	133	129	-4	-3.01%
7	Himachal Pradesh	Bharat Sanchar Nigam Limited	548	586	38	6.93%
8	Jammu & Kashmir	Bharat Sanchar Nigam Limited	267	257	-10	-3.75%
9	Karnataka	Bharat Sanchar Nigam Limited	4,195	3,718	-477	-11.37%
		Bharti Airtel	2,560	2,549	-11	-0.43%
10	Kerala	Bharat Sanchar Nigam Limited	7,430	5,504	-1,926	-25.92%
		Bharti Airtel	374	373	-1	-0.27%
11	Kolkata	Bharat Sanchar Nigam Limited	1,522	1,426	-96	-6.31%
		Bharti Airtel	26	26	0	0.00%
12	Madhya Pradesh	Bharat Sanchar Nigam Limited	1,446	1,084	-362	-25.03%
		Bharti Airtel	0	0	0	
13	Maharashtra	Bharat Sanchar Nigam Limited	4,373	3,930	-443	-10.13%
		Bharti Airtel	0	0	0	
14	Mumbai	Bharti Airtel	50	50	0	0.00%
		MTNL	10,890	9,757	-1,133	-10.40%
15	North East	Bharat Sanchar Nigam Limited	598	559	-39	-6.52%
16	Odisha	Bharat Sanchar Nigam Limited	325	320	-5	-1.54%
17	Punjab	Bharat Sanchar Nigam Limited	995	966	-29	-2.91%
		Bharti Airtel	0	0	0	
		Quadrant	439	416	-23	-5.24%
18	Rajasthan	Bharat Sanchar Nigam Limited	687	635	-52	-7.57%
		Bharti Airtel	209	209	0	0.00%
19	TN including Chennai	Bharat Sanchar Nigam Limited	12,131	11,493	-638	-5.26%
		Bharti Airtel	0	0	0	
20	UP - East	Bharat Sanchar Nigam Limited	3,329	2,057	-1,272	-38.21%
		Bharti Airtel	0	0	0	
21	UP - West	Bharat Sanchar Nigam Limited	1,334	1,231	-103	-7.72%
		Bharti Airtel	0	0	0	
22	West Bengal	Bharat Sanchar Nigam Limited	197	196	-1	-0.51%
Total			73,634	66,154	-7,480	-10.16%
Total (In Lakhs)			0.74	0.66	-0.07	-10.16%

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

S.NO	Name of Telecom Service Area	Service Provider	Number of VPTs as on 31.12.2021	VPT Rural	VPT Urban	Number of VPTs as on 31.03.2022	Net VPTs increase/ decrease as on 31.03.2022	Percentage Growth/ Decline as on 31.03.2022
1	Andhra Pradesh	BSNL	2,896	0	2,896	2,896	0	0.00%
2	Assam	BSNL	105	0	105	105	0	0.00%
3	Bihar	BSNL	6,114	0	6,114	6,114	0	0.00%
4	Delhi	BSNL						
5	Gujarat	BSNL	5,278	0	5,278	5,278	0	0.00%
6	Haryana	BSNL	462	0	462	462	0	0.00%
7	Himachal Pradesh	BSNL	1,875	0	1,875	1,875	0	0.00%
8	Jammu & Kashmir	BSNL	810	0	810	810	0	0.00%
9	Karnataka	BSNL	3,656	0	3,656	3,656	0	0.00%
10	Kerala	BSNL	331	0	331	331	0	0.00%
11	Kolkata	BSNL	130	0	130	130	0	0.00%
12	Madhya Pradesh	BSNL	10,100	0	10,100	10,100	0	0.00%
13	Maharashtra	BSNL	7,846	0	7,846	7,846	0	0.00%
14	Mumbai	BSNL						
15	North East	BSNL	1,182	0	1,182	1,182	0	0.00%
16	Odisha	BSNL	1,554	0	1,554	1,554	0	0.00%
17	Punjab	BSNL	4,493	0	4,493	4,493	0	0.00%
18	Rajasthan	BSNL						
19	TN including Chennai	BSNL	5,478	0	5,478	5,478	0	0.00%
20	UP - East	BSNL	568	0	568	568	0	0.00%
21	UP - West	BSNL	3,758	0	3,758	3,758	0	0.00%
22	West Bengal	BSNL	11,970	0	11,970	11,970	0	0.00%
	Total		68,606			68,606	0	0.00%
	Total (In Lakh)		0.69			0.69	0.00	0.00%

**Annexure 1.5: Internet Service Provider(ISP) wise Internet Subscriber base
as on 31.03.2022**

S. No.	Name of Service Provider	Narrowband	Broadband	Total
1	Reliance Jio Infocomm Ltd	0	409276307	409276307
2	Bharti Airtel Ltd.	20379781	215274819	235654600
3	Vodafone Idea Ltd	13225595	122481979	135707574
4	Bharat Sanchar Nigam Ltd.	2896080	27191156	30087236
5	Atria Convergence Technologies Pvt. Ltd.	0	2075908	2075908
6	Hathway Cable And Datacom Limited	0	1110240	1110240
7	ONEOTT iENTERTAINMENT LIMITED	0	1011144	1011144
8	YOU Broadband India Ltd.	14411	829703	844114
9	GTPL Broadband Pvt. Ltd.	0	749415	749415
10	Excitel Broadband Pvt. Ltd.	0	682589	682589
11	Mahanagar Telephone Nigam Limited	58092	612477	670569
12	Kerala Vision Broadband Ltd.	0	650008	650008
13	ALLIANCE BROADBAND SERVICES PVT. LTD.	0	512683	512683
14	Netplus Broadband Services Pvt. Ltd	0	501436	501436
15	RailTel Corporation of India Ltd.	0	460897	460897
16	Asianet Satellite Communications Ltd.	0	392094	392094
17	Tata Play Broadband Private Limited	0	299269	299269
18	Intech Online Pvt. Ltd.	0	282681	282681
19	Tikona Infinet Ltd.	0	273879	273879
20	D-Vois Communication Private Limited	0	262540	262540
21	Quadrant Televentures Ltd.	57	240049	240106
22	Joister Infoserve Pvt. Ltd.	0	163570	163570
23	Excell Media Pvt. Ltd.	0	145455	145455
24	Indinet Service Pvt. Ltd.	0	131731	131731
25	Wish Net Pvt. Ltd.	0	107868	107868
26	Limras Eronet Broadband Service Pvt Ltd	0	100973	100973
27	ANI Network Pvt Ltd	0	99756	99756
28	Siti Broadband Services Pvt. Limited	0	98971	98971
29	Five Network Solution (India) Ltd.	0	94048	94048
30	Airnet Cable & Datacom Private Limited	0	89089	89089
31	DEN Broadband Limited	0	81524	81524
32	Fusionnet Web Services Pvt Ltd	0	72631	72631
33	Ishan Netsol Pvt. Ltd.	0	68955	68955
34	Digital Satellite Connect Private Limited	0	58981	58981
35	GTPL KCBPL Broadband Private Limited	0	55377	55377
36	Dwan Supports Pvt. Ltd.	0	54600	54600

S. No.	Name of Service Provider	Narrowband	Broadband	Total
37	K NET Solutions Private Limited	0	52851	52851
38	Juweriyah Networks Pvt Ltd	0	50104	50104
39	Microscan Infocommtech Private Limited	0	36804	36804
40	Honesty Net Solutions (I) Pvt Ltd	0	36018	36018
41	INSTANET TECHNOLOGIES PRIVATE LIMITED	0	35807	35807
42	DNA Infotel Pvt. Ltd.	0	34951	34951
43	Meghbela Cable & Broadband Servies (P) Ltd	0	29130	29130
44	WAN AND LAN INTERNET PRIVATE LIMITED	0	29031	29031
45	Multicraft Digital Technologies Private Limited	0	28894	28894
46	Sristisanchar Webnet Limited	0	28638	28638
47	Kernel Fibernet Online Network Pvt Ltd	0	27474	27474
48	Tata Teleservices(Maharashtra) Ltd.	0	25851	25851
49	Shyam Spectra Private Limited	0	24944	24944
50	Digital Networks Associates Pvt. Ltd.	0	24369	24369
51	SIKKA BROADBAND PRIVATE LIMITED	0	24298	24298
52	Nuron Networks India Private Limited	0	24047	24047
53	Ethernet Xpress(I) Pvt. Ltd.	0	23301	23301
54	Radinet Info Solutions Pvt. Ltd.	0	22758	22758
55	Readylink Internet Services Limited	0	22524	22524
56	TACHYON COMMUNICATIONS PRIVATE LIMITED	0	22130	22130
57	Kings Broadband Pvt. Ltd	0	21823	21823
58	RI Networks Pvt Ltd	0	21468	21468
59	Weebo Networks Pvt Ltd.	0	20714	20714
60	Tata Communications Limited	292	19090	19382
61	Tata Teleservices Limited	0	19375	19375
62	Genstar Network Solutions Pvt. Ltd.	0	19197	19197
63	Stampede Communications Pvt. Ltd.	0	19063	19063
64	Rajesh Digital & DataCom Pvt. Ltd.	0	19033	19033
65	Shree Omkar Infocomm Pvt Ltd	0	18573	18573
66	United Telecoms Ltd.	0	18074	18074
67	DDC Broad Band Pvt. Ltd	0	17457	17457
68	Yashash Cable Network (Pvt.) Ltd	0	16824	16824
69	Spiderlink Networks Pvt. Ltd.	0	16740	16740
70	QUEST CONSULTANCY PVT LTD	0	16246	16246
71	City Online Services Ltd.	0	15427	15427
72	Airlink Communications Pvt. Ltd.	0	15142	15142
73	Candor Infosolution Pvt. Ltd.	0	14301	14301
74	Angel Air Network Solutions Pvt. Ltd.	0	12779	12779

S. No.	Name of Service Provider	Narrowband	Broadband	Total
75	Pacenet Meghbela Broadband Pvt.Ltd.	0	12150	12150
76	Intermedia Cable Communication Pvt Ltd	0	11864	11864
77	DL GTPL Broadband Pvt. Ltd.	0	11189	11189
78	ULTRANET INFOTECH SOLUTION PRIVATE LIMITED	0	11034	11034
79	HYFY Giga Fiber Pvt. Ltd.	0	10973	10973
80	Net 9 Fibernet Pvt Ltd	0	10841	10841
81	Net 9 Online Hathway Private Limited	0	10634	10634
82	Esto Broadband Pvt. Ltd.	0	10208	10208
83	LM Energy and Software Pvt. Ltd.	5780	4390	10170
84	Airfiber Networks Pvt. Ltd.	0	10137	10137
85	Broadband Pacenet (I) Pvt. Ltd.	10052	0	10052
86	Signum Digital Networks Pvt. Ltd	0	10037	10037
87	INFONET COMM ENTERPRISES PVT LTD	0	9662	9662
88	MAHA MEDIACOM INTERNET PVT. LTD.	0	9469	9469
89	JETWAY Broadband India Pvt Ltd.	0	8960	8960
90	Orange Waves Networks Pvt. Ltd.	0	8860	8860
91	Five Internet Solutions Pvt. Ltd.	0	8207	8207
92	Siliguri Internet & Cable TV Pvt. Ltd.	0	8163	8163
93	Balaji Teleworks Development Pvt Ltd	0	8099	8099
94	AT Broadband Pvt. Ltd.	0	8019	8019
95	Airconnect Internet Services Pvt. Ltd.	0	7847	7847
96	IAXN Telecom Pvt. Ltd.	0	7715	7715
97	Apna TeleLink Pvt. Ltd.	0	7687	7687
98	FOXTEL TELECOMMUNICATIONS PVT LTD	0	7325	7325
99	Prisac Aviation Technologies Pvt. Ltd.	0	7071	7071
100	NORTH EAST DATAA NETWORK PRIVATE LIMITED	0	7045	7045
101	SSCN Pvt. Ltd.	0	7031	7031
102	Cityzone Infonet Pvt. Ltd	0	6925	6925
103	Kappa Internet Services Pvt. Ltd.	0	6886	6886
104	WSNS Pvt. Ltd.	0	6730	6730
105	Skymax Broadband Services Pvt. Ltd.	0	6607	6607
106	WORLD PHONE INTERNET SERVICES PVT LTD	0	6550	6550
107	Vizag Broad CastingCompany Pvt. Ltd.	0	6398	6398
108	OM-ASHA Net Pvt. Ltd.	0	6150	6150
109	S S Netcom Pvt. Ltd.	0	6039	6039
110	DEEPNET BROADBAND PRIVATE LIMITED	0	6007	6007
111	HYOSEC SOLUTIONS Pvt. LTD	0	5943	5943
112	Symbios Creations Pvt. Ltd.	0	5804	5804

S. No.	Name of Service Provider	Narrowband	Broadband	Total
113	GBPS Networks Pvt. Ltd.	0	5662	5662
114	Sonali Internet Services Pvt. Ltd.	0	5341	5341
115	Wefe Technology Pvt. Ltd.	0	5203	5203
116	Southern Online Bio Technologies Ltd.	0	5135	5135
117	R.G. Technosolutions Pvt. Ltd.	0	5132	5132
118	Dsouza Infotainment Pvt. Ltd.	0	4986	4986
119	Geocity Network Solutions Pvt. Ltd.	0	4858	4858
120	Multinet (Udaipur) Pvt. Ltd.	0	4844	4844
121	Inet Fiber India Pvt. Ltd	0	4703	4703
122	LALAT INTERNET SERVICE PVT LTD	0	4643	4643
123	B2H Infonet Pvt. Ltd.	0	4466	4466
124	Ani Broadband Service Pvt. Ltd.	0	4201	4201
125	Five Net Service Provider Pvt. Ltd.	0	4068	4068
126	Sai Prasad Internet Services Pvt. Ltd.	0	4020	4020
127	Blazenet Ltd.	0	4017	4017
128	Bittel Telecom Pvt.Ltd	0	4000	4000
129	SUPER SONIC BROADBAND PVT LTD	0	3915	3915
130	Swiftmail Communications Ltd.	0	3893	3893
131	Siddhant Broadband Pvt. Ltd.	0	3827	3827
132	GETWAY BROADBAND PVT LTD	0	3755	3755
133	SNS Internet Services Pvt. Ltd.	0	3742	3742
134	Maharaj Netsol Pvt Ltd	0	3739	3739
135	SoftCall Cust-O-Care Pvt. Ltd..	0	3699	3699
136	Mukand Infotel Pvt. Ltd.	0	3626	3626
137	Antarjal IT Communication Pvt. Ltd.	0	3524	3524
138	Fiberzone communication Pvt Ltd	0	3500	3500
139	MINDAGE BROADCASTING Pvt. LTD	0	3410	3410
140	Kumar Cable Digital Network Pvt. Ltd.	0	3392	3392
141	Sri Nagar Net Tech Pvt. Ltd.	0	3346	3346
142	Shine Communications Pvt. Ltd.	0	3304	3304
143	VRD Web Services Pvt. Ltd.	0	3264	3264
144	Rainbow Internet teleservices Pvt Ltd	0	3184	3184
145	AS Broadband Pvt. Ltd	0	2924	2924
146	Renu Giga Fiber Pvt. Ltd.	0	2904	2904
147	NET ACCESS INTERNET INDIA PRIVATE LIMITED	0	2879	2879
148	STN INFOTECH PRIVATE LIMITED	0	2865	2865
149	Nirav Infoway Pvt. Ltd.	0	2842	2842
150	Airgenie Communications Pvt. Ltd.	0	2822	2822

S. No.	Name of Service Provider	Narrowband	Broadband	Total
151	Netfirre Communications Pvt. Ltd.	0	2816	2816
152	El Dot Com Pvt Ltd	0	2804	2804
153	Skynet Datacom Pvt. Ltd.	0	2802	2802
154	Prathamesh Broadband Pvt. Ltd	0	2783	2783
155	CSC e-Governance Services India Ltd.	0	2779	2779
156	Sherie Plexus ISP Pvt. Ltd.	0	2779	2779
157	NETVISION AWADH NETWORKS PVT LTD	0	2774	2774
158	TGN NETWORKS PVT LTD	0	2679	2679
159	Exnet Broadband Pvt. Ltd.	0	2670	2670
160	TRANSMEDIA TECHNOLOGIES (AP) PVT LTD	0	2639	2639
161	E I DOT Com Pvt. Ltd.	0	2579	2579
162	Classic Internet and Cable Services Pvt. Ltd.	0	2552	2552
163	NISS INTERNET SERVICES PVT. LTD.	0	2545	2545
164	Lbs Infoway India Pvt. Ltd.	0	2499	2499
165	WOW Solutions and Systems Pvt. Ltd	0	2483	2483
166	Deenet Services Pvt Ltd	0	2475	2475
167	Chandra Net Pvt. Limited	0	2435	2435
168	Swiftnet Broadband Pvt Ltd	0	2417	2417
169	Lotus Broadband Pvt Ltd	0	2356	2356
170	SBR Telecom Pvt. Ltd.	0	2350	2350
171	HIGHTEC NETWORK SOLUTIONS (OPC) PRIVATE LIMITED	0	2321	2321
172	Foxxcell Communications Pvt. Ltd.	0	2302	2302
173	Adri Infocom Pvt. Ltd.	0	2265	2265
174	Uzaina Business India Pvt Ltd	0	2237	2237
175	Bakliwal Telecom Services Pvt. Ltd.	0	2236	2236
176	Pink Broadband Services Pvt. Ltd.	0	2203	2203
177	delDSL Internet Pvt Ltd	0	2127	2127
178	Scud Communication Pvt. Ltd.	0	2103	2103
179	Real Wire Express Network Pvt. Ltd.	0	2097	2097
180	Vision Smartlink Networking Pvt. Ltd.	0	2048	2048
181	Mana Broadband Pvt. Ltd.	0	2038	2038
182	SMARTLINK SOLUTIONS PVT. LTD.	0	2033	2033
183	Shikhar BroadbandEnterprises Pvt. Ltd.	0	2000	2000
184	Jetspot Networks Pvt. Ltd.	0	1996	1996
185	SMART NET INDIA PVT LTD	0	1981	1981
186	OUTOFBOX NETWORKS PRIVATE LIMITED	0	1953	1953
187	WNET TELECOM PRIVATE LIMITED	0	1940	1940
188	Southnet Broadband Pvt. Ltd.	0	1935	1935

S. No.	Name of Service Provider	Narrowband	Broadband	Total
189	Speed Online Net Pvt Ltd	0	1934	1934
190	Channel III Internet Pvt. Ltd.	0	1932	1932
191	Galaxynet Connections Pvt. Ltd.	0	1916	1916
192	Mayekar Broadband Pvt. Ltd.	0	1905	1905
193	CredenceIS Computing Pvt. Ltd.	0	1900	1900
194	ARKTEL NETWORKS PVT LTD	0	1895	1895
195	First Mile Digital Private Limited	0	1860	1860
196	CORREL IT SERVICE PVT LTD	0	1830	1830
197	Osbnnet Broadband Pvt. Ltd.	0	1829	1829
198	AAACLOUD TELEPHONY PRIVATE LIMITED	0	1826	1826
199	City Online AP Pvt. Ltd.	0	1822	1822
200	Sanchit Infocom Pvt Ltd	0	1818	1818
201	Sphier Infotech Pvt. Ltd.	0	1789	1789
202	Elyzium Technologies Pvt. Ltd.	0	1760	1760
203	Surround Networks Pvt Ltd	0	1731	1731
204	Karunay Internet Pvt. Ltd.	0	1729	1729
205	DNS SKYLINK PVT. LTD.	0	1728	1728
206	Assistive networks & technologie Pvt Ltd	0	1701	1701
207	Syntego Technologies India Pvt. Ltd.	0	1694	1694
208	Maruthi Cable & Data Pvt. Ltd.	0	1687	1687
209	Protoact Digital Network Pvt. Ltd.	0	1683	1683
210	Bakcom Networks India Pvt Ltd	0	1667	1667
211	BLITS GLOBAL TECHNOLOGIES PVT LTD	0	1655	1655
212	Venessa Internet Pvt. Ltd.	0	1632	1632
213	Netlinx Limited	0	1591	1591
214	Charotar Telelink Pvt. Ltd..	0	1578	1578
215	Shaildhar Telecom Services Pvt. Ltd.	0	1568	1568
216	Teligus Networks Pvt. Ltd	0	1558	1558
217	Capture Network Systems Pvt. Ltd.	0	1517	1517
218	S S Fiber Net OpticalCommunication Pvt. Ltd.	0	1507	1507
219	Speednet Unique Network Pvt. Ltd.	0	1506	1506
220	JB Jain Broadband Solutions Private Limited	0	1495	1495
221	SIS NETWORKS PRIVATE LIMITED	0	1478	1478
222	Macro Signal Pvt. Ltd	0	1467	1467
223	NGC Broadband Pvt. Ltd.	0	1444	1444
224	Ski Network Services Pvt. Ltd	0	1414	1414
225	Kovai Fibernet Pvt. Ltd.	0	1413	1413
226	Country Online Services Pvt. Ltd.	0	1410	1410

S. No.	Name of Service Provider	Narrowband	Broadband	Total
227	Vimal Telecom Pvt. Ltd	0	1400	1400
228	Speedmaxx Digital Networks Pvt. Ltd.	0	1398	1398
229	Smart Wi5 Pvt. Ltd.	0	1372	1372
230	MORE WIFI PRIVATE LIMITED	0	1370	1370
231	Skyline Infonet Pvt. Ltd.	0	1370	1370
232	Sprioc Web Private Limited	0	1367	1367
233	Click 4 Net Internet Services Pvt. Ltd.	0	1355	1355
234	Amar Broadband Pvt. Ltd.	0	1337	1337
235	Flashcom Network Pvt. Ltd.	0	1329	1329
236	Gigacast Network Private Limited	0	1302	1302
237	Airwaves Internet Pvt. Ltd.	0	1255	1255
238	RTEL INTERNET SERVICES PVT LTD	0	1252	1252
239	MAKS COMMUNICATIONS PVT.LTD.	0	1248	1248
240	City Broadband Network Pvt Ltd	0	1246	1246
241	SEFARO NETWORKS PRIVATE LTD	0	1246	1246
242	Trueinet Networks Pvt.Ltd	0	1244	1244
243	Nikita Broadband Pvt. Ltd	0	1230	1230
244	UNITED STARS NETWORK PRIVATE LIMITED	0	1221	1221
245	A.S.C.S.C. DIGITAL PRIVATE LIMITED	0	1215	1215
246	iAIRONET COMMUNICATION PVT LTD	0	1213	1213
247	VENKATA SAI INTERNET PRIVATE LIMITED	0	1202	1202
248	Poem Techno Pvt. Ltd.	0	1186	1186
249	REVOLUTION BROADBAND PVT LTD	0	1177	1177
250	Blu Ultraband Internet Services Private Limited	0	1150	1150
251	Anish Infoline Pvt. Ltd.	0	1140	1140
252	ACN Fiber Pvt. Ltd.	0	1100	1100
253	Hardwork Cable & Internet services Pvt. Ltd.	0	1072	1072
254	Mega Hertz Network Solutions Pvt Ltd	0	1072	1072
255	FTTX Broadband P Ltd	0	1050	1050
256	Oxynet Telecommunications Pvt. Ltd	0	1046	1046
257	DA Smartzone Pvt. Ltd.	0	1034	1034
258	VPM NETWORKS PRIVATE LIMITED	0	1034	1034
259	Hostaxis Network Pvt. Ltd.	0	1021	1021
260	Veloxr Telecom Pvt. Ltd.	0	1019	1019
261	SKY ONLINE TECHNOSYSTEM PVT LTD	0	1016	1016
262	Green Tech Net Com Pvt. Ltd.	0	1009	1009
263	Reliance Communications Limited	1005	0	1005
264	Netfirst Communications Pvt. Ltd.	0	990	990

S. No.	Name of Service Provider	Narrowband	Broadband	Total
265	Wi-Link Network Pvt. Ltd	0	977	977
266	Nandini Broadband Pvt. Ltd.	0	973	973
267	AHM Digital Network Pvt Ltd	0	970	970
268	AMK SUNBEAM COMMUNICATION PRIVATE LIMITED	0	970	970
269	Shrisai Shavenk Technologies Pvt. Ltd.	0	968	968
270	Bass Jokernet Pvt. Ltd.	0	960	960
271	Rida Communication Pvt. Ltd.	0	952	952
272	Anushree Digital Network Pvt Ltd	0	944	944
273	Netmagic Solutions Pvt Ltd.	0	944	944
274	Al-Mairah Braodband Pvt. Ltd.	0	934	934
275	Grace Teleinfra Pvt Ltd	0	927	927
276	SREEDEVI COMMUNICATION PRIVATE LIMITED	0	927	927
277	Sampath Venkateswara Communications Pvt. Ltd.	0	923	923
278	Deepnetwork Pvt. Ltd.	0	917	917
279	ALWAR ONLINE PVT LTD	0	910	910
280	Aeroway Networks Pvt. Ltd.	0	882	882
281	FASTNET COMMUNICATION PVT. LTD	0	876	876
282	Ficus Telecom Pvt. Ltd.	0	873	873
283	AU NetworksPvt. Ltd.	0	853	853
284	Bluwaves Internet Services India Pvt. Ltd.	0	848	848
285	DREAMLINK TECHNOLOGIES PVT LTD	0	848	848
286	Jiffy Cable & Datacom Pvt. Ltd.	0	847	847
287	Nextra Communications Private Limited	0	837	837
288	Darer Internet Services Pvt. Ltd.	0	831	831
289	KESHAVA DIGITAL NETWORK PVT. LTD.	0	825	825
290	Shree Manoranjan Broadband Pvt. Ltd.	0	825	825
291	Packenet Solutions Pvt. Ltd.	0	822	822
292	TOUCHNET BROADBAND SERVICES PVT LTD	0	809	809
293	JMD Internet and Services Pvt. Ltd.	0	803	803
294	GREEN ARROW TECHNOLOGY PRIVATE LIMITED	0	800	800
295	Vinayaga Communications Pvt Ltd.	0	795	795
296	VIVA Communications Pvt Ltd	0	776	776
297	CATLA IT&ENGG. CO. PVT LTD.	0	770	770
298	Unisas Netserve Pvt. Ltd.	0	769	769
299	Alegra Communication Pvt Ltd	0	763	763
300	Datawave IT solutions Pvt. Ltd.	0	763	763
301	Mhatoba BroadbandPvt. Ltd	0	763	763
302	Wyris Network Pvt. Ltd.	0	763	763

S. No.	Name of Service Provider	Narrowband	Broadband	Total
303	Bapu Internet Services Pvt.Ltd.	760	0	760
304	LIMERICK TECHNOLOGIES PRIVATE LIMITED	0	760	760
305	KGS NETWORKS PRIVATE LIMITED	0	756	756
306	SB Broadband Services Pvt. Ltd	0	756	756
307	Sarva Air World Network Pvt Ltd	0	747	747
308	Shineplus Networks Pvt. Ltd.	0	743	743
309	Reticule Infotech Pvt. Ltd.	0	737	737
310	Global (India) Tele Infra Pvt. Ltd.	0	735	735
311	Uttam Infranet Pvt. Ltd..	0	735	735
312	Telosy Telecom Pvt. Ltd.	0	725	725
313	CJ Online Pvt. Ltd.	0	723	723
314	Spirenet Digital Communications Pvt. Ltd.	0	720	720
315	Software Technology Parks of India	0	716	716
316	NEONET COMMUNICATIONS PVT LTD	0	708	708
317	Cloudnet Communications Pvt. Ltd.	0	706	706
318	CNS Infotel Services Pvt. Ltd.	0	705	705
319	Touch Net India Pvt. Ltd.	0	702	702
320	Starlings Wireless Communications Pvt. Ltd.	0	701	701
321	Rajesh Patel Net Services Pvt. Ltd.	3	694	697
322	Daksh Broadband Services Pvt. Ltd.	0	684	684
323	Gloiosa Infotel IT Services Pvt Ltd.	0	682	682
324	Netsat Communications Pvt. Ltd.	0	678	678
325	Kosmic Broadband Pvt Ltd	0	676	676
326	Unitel Media Pvt. Ltd.	0	676	676
327	HPS DIGITAL BROADBAND PVT LTD	0	672	672
328	SVD DIGITAL NETWORKS PVT LTD	0	670	670
329	Power Grid Corporation of India Ltd.	0	668	668
330	Craze IT Solutions Pvt Ltd	0	667	667
331	PRIMENET GLOBAL LTD.	0	666	666
332	Bandwidth Infinity Pvt. Ltd	0	661	661
333	BASS NETWORKS PRIVATE LIMITED	0	661	661
334	Spectram Telecom Pvt.Ltd	0	650	650
335	POWERNET TELECOM PVT LTD	0	649	649
336	Briskcom Infoway Pvt. Ltd.	0	646	646
337	TOUCH NET INDIATELESERVICE PRIVATE LIMITED	0	646	646
338	Gleam Worldwide Services Pvt. Ltd.	0	643	643
339	Fastx Broadband Pvt. Ltd.	0	631	631
340	Stackbit Internet Services Pvt. Ltd.	0	626	626

S. No.	Name of Service Provider	Narrowband	Broadband	Total
341	VICTORY DIGITAL NETWORK PRIVATE LIMITED	0	620	620
342	Gowio Networks Pvt. Ltd	0	614	614
343	Airnetz Broadband Services Pvt. Ltd.	0	613	613
344	Datamax Technologies Pvt Ltd	0	611	611
345	Windsor Internet Pvt. Ltd.	0	608	608
346	Ometa Net Pvt. Ltd.	0	603	603
347	Sivaan Infocom Pvt. Ltd	0	603	603
348	RSBS Online Services Pvt. Ltd.	0	595	595
349	Clickian Network Pvt. Ltd.	0	588	588
350	SG Broadband Internet Pvt. Ltd.	0	588	588
351	ALLIED IT INFRASTRUCTURE & SERVICES PRIVATE LIMITED	0	573	573
352	SHEEN TELECOM CONSULTANTS PVT LTD	0	572	572
353	Alphanet Broadband Pvt Ltd	0	571	571
354	Nanjil Internet Services Pvt. Ltd.	0	560	560
355	Gazillio Technologies Pvt. Ltd.	0	557	557
356	Digital2Virtual ISP Pvt. Ltd.	0	549	549
357	Panav Network and Communications Private Limited	0	548	548
358	Acegen Broadband Pvt. Ltd.	0	546	546
359	Goodwill Smartlink Pvt. Ltd.	0	529	529
360	Imperium Digital Network Pvt. Ltd.	0	520	520
361	Fastnet Wire & Wireless Solutions Pvt. Ltd.	0	516	516
362	Varsha Datacom Services Pvt Ltd	0	514	514
363	Cityline Networks Pvt Ltd	0	496	496
364	Hughes Communications India Ltd.	37	458	495
365	Spider Broadband & Cable Pvt. Ltd.	0	495	495
366	Faconet Internet Pvt Ltd	0	490	490
367	NC BROADBAND SERVICES PRIVATE LIMITED	0	486	486
368	DE-CIX Interwire Internet Services Pvt. Limited	0	485	485
369	Hightel Digital India Pvt. Ltd.	0	480	480
370	Texas Connect Private Limited	0	475	475
371	MSINFINITY ETHERNET SOLUTIONS PRIVATE LIMITED	470	0	470
372	BREITBAND TECHNOLOGIES PRIVATE LIMITED	0	468	468
373	Aerocast Networks Pvt Ltd.	0	467	467
374	Quick Link Broadband and Services Pvt. Ltd.	0	459	459
375	OPTO Communications Private Limited	0	456	456
376	Simplex Broadband Pvt. Ltd.	0	456	456
377	ARJUN BROADBAND PRIVATE LIMITED	0	453	453
378	INTERJET INDIA PRIVATE LIMITED	0	450	450

S. No.	Name of Service Provider	Narrowband	Broadband	Total
379	KSK Broadband Pvt. Ltd.	0	450	450
380	BPS COMMUNICATION AND SERVICES PRIVATE LIMITED	0	448	448
381	Earthlink Broadband Pvt. Ltd	0	445	445
382	Tamana Winet Pvt. Ltd.	0	445	445
383	DMDS SOLUTIONSPRIVATE LIMITED	0	443	443
384	MREZHI INTERNET PRIVATE LIMITED	0	440	440
385	MORADABAD INTERNET SERVICES PVT LTD	0	438	438
386	Mall and Mall Digiworld Pvt. Ltd.	0	437	437
387	Prompt Infracom Pvt. Ltd.	0	430	430
388	Shivraj Broadband Internet Pvt. Ltd.	0	422	422
389	Sysnet Broadband Services Pvt. Ltd.	0	417	417
390	Nandita Infocom Pvt. Ltd.	0	414	414
391	GOMTESH INFOTECH PVT. LTD.	0	413	413
392	TRACKNET SERVICES PVT LTD	0	413	413
393	Giganet Digital Net Services Private Limited	0	412	412
394	KKM Broadband Internet Pvt. Ltd.	0	412	412
395	Rocketwire Internet Solutions Pvt. Ltd.	0	405	405
396	RUSH ME BROADBAND PRIVATE LIMITED	0	403	403
397	SIDDIQUI GLOBAL SERVICES PVT LTD	0	403	403
398	HANUMAT NETWORKS PRIVATE LIMITED	0	397	397
399	PULSE TELESYSTEMS PRIVATE LIMITED	0	386	386
400	Digital Telco Network India Pvt. Ltd.	0	382	382
401	VORRUCKEN NETWORKS PRIVATE LIMITED	0	382	382
402	Visputes Internet Pvt. Ltd.	0	381	381
403	Cybernet Introtech Pvt. Ltd.	0	375	375
404	Malang Solutions Pvt. Ltd.	0	370	370
405	Starnet Global Pvt. Ltd.	0	370	370
406	Suncity Broadband Pvt. Ltd.	0	365	365
407	WAVETREE NETWORKS PVT LTD	0	365	365
408	LINKIO FIBERNET PRIVATE LIMITED	0	363	363
409	Citylink Broadband Services Pvt. Ltd.	0	360	360
410	Elecon Information Technology Ltd.	0	360	360
411	JBN Online Pvt. Ltd.	0	360	360
412	Speedster Communications Pvt. Ltd	0	350	350
413	Unigro Infranet Online Pvt. Ltd.	0	342	342
414	Chaitali Communication (OPC) Pvt. Ltd.	0	341	341
415	VERYS INFOTECH PRIVATE LIMITED	0	335	335
416	PRONET PRIVATE LIMITED	0	334	334

S. No.	Name of Service Provider	Narrowband	Broadband	Total
417	Sai Akshay Internet Services Pvt Ltd.	0	332	332
418	Kataria Net Solutions Pvt. Ltd.	0	331	331
419	Twincity Communication Private Limited	0	328	328
420	BHORER ALO CABLE AND BROADBAND PRIVATE LIMITED	0	325	325
421	BSL Technologies Pvt. Ltd.	0	311	311
422	DIGISCOPE NETWORKS PRIVATE LIMITED	0	311	311
423	TRIVNET NETWORKS PRIVATE LIMITED	0	304	304
424	Apex Netcom India Pvt. Ltd..	0	300	300
425	ASHOKA NETSOL PVT LTD	0	300	300
426	Development Logics Solutions Pvt. Ltd.	0	299	299
427	YES BROADBANDPRIVATE LIMITED	0	298	298
428	Aayu Infonet Pvt. Ltd.	0	297	297
429	SmartLink Broadband Services Pvt Ltd	0	293	293
430	STN Communication & Advertising Pvt. Ltd.	0	293	293
431	Sense Connect IT Pvt. Ltd.	0	288	288
432	Vardaan Netservices Pvt. Ltd.	0	284	284
433	CONSAM TELECOM PRIVATE LIMITED	0	281	281
434	Verizon Communications India Pvt. Ltd.	280	0	280
435	Voxterria Innovtions Pvt. Ltd.	0	280	280
436	Skyhunt IT Park Pvt. Ltd.	0	279	279
437	Shreepad Communication Pvt. Ltd.	0	277	277
438	Bluenet Broadband Services Pvt. Ltd.	0	276	276
439	J-Link Infotainment Pvt. Ltd.	0	270	270
440	HELM CONSULTANTS PVT LTD	0	269	269
441	Neton Icom Pvt. Ltd.	0	268	268
442	VIZCON DIGITAL PVT LTD	265	0	265
443	Singh Internet Services Pvt. Ltd.	0	260	260
444	Auspice Infratel Pvt. Ltd.	0	259	259
445	I-Infolink Networks Pvt. Ltd.	0	259	259
446	HIPOINT CONNECT PRIVATE LIMITED	0	255	255
447	Proline Datatech Services Pvt. Ltd.	0	252	252
448	ANTARIKSH BROADBAND & WIRELESS SOLUTIONS PVT LTD	0	249	249
449	SNT Broadband Pvt. Ltd.	0	244	244
450	Micronova Telesystems Pvt Ltd	0	240	240
451	Way2Air Net Solution Pvt. Ltd.	0	240	240
452	Zoram Infonet Pvt. Ltd.	0	239	239
453	AEROLINK BROADBAND PRIVATE LIMITED	0	238	238
454	Microsense Pvt Ltd	0	237	237

S. No.	Name of Service Provider	Narrowband	Broadband	Total
455	Barani Data Solutions Private Limited	0	232	232
456	Hipath Netcom Services Pvt. Ltd.	0	228	228
457	Khetan Cable Network (P) Ltd	0	228	228
458	Magnuss Broadband Service Pvt. Ltd.	0	228	228
459	ZEES BROAD BAND PRIVATE LIMITED	0	228	228
460	Peer Networks Private Limited	0	226	226
461	VIVEK NETWORK PRIVATE LIMITED	0	226	226
462	Amity Hua Electronics Pvt. Ltd.	0	225	225
463	Rmax Broadband Pvt. Ltd.	0	222	222
464	Data Ingenious Global Ltd	0	221	221
465	Netrexo Communications Pvt. Ltd.	0	221	221
466	ST Network Solutions Pvt. Ltd.	0	221	221
467	ACEBROWSE PVT LTD	0	219	219
468	CIT SOLUTIONS PVT. LTD.	0	217	217
469	Clicknet Communication Pvt. Ltd.	0	216	216
470	iBus Network & Infrastructure (P) Ltd.	0	212	212
471	Pune Teleinfra Pvt. Ltd.	0	212	212
472	Enhancelink Coreport Pvt. Ltd	0	211	211
473	Yuva Communications Private Limited	0	209	209
474	Saibaba Broadband Pvt. Ltd.	0	206	206
475	Vrednus Network Pvt. Ltd.	0	204	204
476	AIRTECHZONE SERVICES INDIA PRIVATE LIMITED	0	203	203
477	METREXA BROADNET PRIVATE LIMITED	0	203	203
478	Dhadam Hospitality & Services Pvt. Ltd.	0	200	200
479	Ishani Broadband Pvt Ltd	0	200	200
480	7 Sai Net Solutions Pvt. Ltd.	0	194	194
481	Cheetah Networks Pvt. Ltd.	0	188	188
482	Frontier Infra Communications(P) Ltd.	0	187	187
483	EYE FASTNET SERVICE PRIVATE LIMITED	0	186	186
484	M-TEL Networks (P) Ltd	0	186	186
485	SFOUR CABLENET PVT LTD	0	185	185
486	S.V.C CABLE NET PRIVATE LIMITED	0	182	182
487	AIRMAX INTERNET PVT LTD	0	181	181
488	Fabnet Services Private Limited	0	180	180
489	VMO BROADBAND PVT LTD	0	180	180
490	White Stallion Networks Pvt. Ltd.	0	179	179
491	Achiever Communication and Services Pvt. Ltd.	0	178	178
492	Excel UG Pvt. Ltd	0	171	171

S. No.	Name of Service Provider	Narrowband	Broadband	Total
493	Rae Internet Service Provider Pvt Ltd	0	171	171
494	CINFOGEN PRIVATE LIMITED	0	170	170
495	Sify Technologies Ltd.	0	170	170
496	Optisky Fibernet Pvt. Ltd.	0	168	168
497	Costel Networks Pvt. Ltd.	0	167	167
498	Oistel Telecom Pvt. Ltd.	0	166	166
499	Fibernetisp Pvt. Ltd.	0	162	162
500	PMG Networks Pvt Ltd	0	162	162
501	Wifi Inter-connect Pvt. Ltd.	0	162	162
502	MANAS INTERNET TECHNOLOGY PRIVATE LIMITED	0	160	160
503	ARP INFONET PVT. LTD.	0	159	159
504	PR SHREE NETWORKS PRIVATE LIMITED	0	158	158
505	JAYBHOLE CABLE VISION PRIVATE LIMITED	0	155	155
506	Rita Infocom Pvt. Ltd.	0	155	155
507	Noob Technologies Pvt.Ltd	0	152	152
508	Pyramid Infocom Pvt. Ltd.	0	152	152
509	Alien DNS Pvt. Ltd.	0	151	151
510	NEXTGEN COMPUSOFT PVT LTD	0	151	151
511	Prateek Netconnect Pvt. Ltd	0	150	150
512	SRI RAM BROADBAND SERVICES PRIVATE LIMITED	0	149	149
513	KOLI'Z PRIVATE LIMITED	0	148	148
514	Airfiber IT Solutions Pvt. Ltd.	0	147	147
515	VISHWAKARMA BROADBAND PRIVATE LIMITED	0	143	143
516	Ezeenet Internet Solutions Pvt. Ltd.	0	142	142
517	Triple Link Pvt. Ltd.	0	142	142
518	Wi5 Internet Services Pvt. Ltd.	0	140	140
519	LIGHT AIR TRANSMISSION PVT. LTD.	0	138	138
520	Sath Technologies Pvt. Ltd.	0	137	137
521	Mediatech Communication Pvt. Ltd.	0	135	135
522	Galvin Broadband (OPC) Pvt. Ltd.	0	130	130
523	S A Internet Solution Pvt Ltd	0	127	127
524	MLC INTERNET PVT LTD	0	126	126
525	Linkup Networks Pvt. Ltd.	0	125	125
526	A-Net Communication India Pvt.Ltd.	0	123	123
527	NT CYBRONET PRIVATE LIMITED	0	123	123
528	Gaurav Communication Pvt. Ltd	0	120	120
529	LEVOTEL BIGNET SOLUTIONS PRIVATE LIMITED	0	118	118
530	V NET NETWORKS PVT. LTD	0	118	118

S. No.	Name of Service Provider	Narrowband	Broadband	Total
531	King Netsol Pvt. Ltd.	0	117	117
532	ASVISH TECHNOLOGY PARTNER (OPC) PVT LTD	0	116	116
533	Ekdant Communication Pvt Ltd	0	116	116
534	Sharktel Infocom Pvt. Ltd.	0	116	116
535	Pronoc Technologies Pvt. Ltd.	0	113	113
536	Japra Tele Link Pvt. Ltd.	0	110	110
537	AxomNet Broadband Pvt. Ltd.	0	105	105
538	Telstra Telecommunications Private Limited	0	103	103
539	ROYAL WIRELESS SERVICES PVT LTD	0	102	102
540	Invensys Networks Pvt.Ltd.	0	101	101
541	NR IT Service Pvt. Ltd.	0	100	100
542	FLIX BROADBAND SERVICES PRIVATE LIMITED	0	99	99
543	LINKUNIVERSE COMMUNICATION PRIVATE LIMITED	0	98	98
544	Broad Net India Pvt. Ltd.	0	97	97
545	GigHz IT Solutions Pvt Ltd	0	97	97
546	YOTTA NETWORK SERVICES PRIVATE LIMITED	0	95	95
547	Jetato Skynet Services Pvt. Ltd.	0	94	94
548	Magica Networking Solutions Pvt. Ltd.	0	94	94
549	Veer Point Pvt. Ltd.	0	94	94
550	Durga Broadband Pvt. Ltd.	0	93	93
551	Satpar Infotech Pvt Ltd	0	93	93
552	Winet Infratel Pvt. Ltd.	0	90	90
553	INFINITY WIRELESS SERVICES PVT. LTD.	0	89	89
554	YNET TELECOM SOLUTIONS PVT LTD	0	89	89
555	Wireline Solution India Pvt Ltd	0	88	88
556	Aspire Broadband Pvt. Ltd.	21	64	85
557	VAISHNAVAIBHAVI INTERNET SOLUTIONS PRIVATE LIMITED	0	81	81
558	G-Max IT Services Pvt. Ltd.	0	80	80
559	NAS Broadband Pvt. Ltd	0	78	78
560	CLOUDINSTA24 SERVICES PRIVATE LIMITED	0	76	76
561	Netwire Internet Solutions Pvt. Ltd.	0	76	76
562	Promptnet Broadband Pvt. Ltd.	0	76	76
563	Omkar Net Services Pvt. Ltd.	0	74	74
564	Shri Vinayagaa Internet Pvt Ltd	0	74	74
565	Hansin IT Services Private Limited	0	73	73
566	ANODIC TELENETWORK PRIVATE LIMITED	0	72	72
567	AT&T Global Network Service India Private Limited	0	72	72
568	NR Data Service Pvt Ltd.	0	72	72

S. No.	Name of Service Provider	Narrowband	Broadband	Total
569	JAI MATA DI TELETRONIX PVT LTD	0	71	71
570	Sanavi Infotech (OPC) Pvt. Ltd.	0	71	71
571	MABA SAFENET BROADBAND SERVICES PVT LTD	0	70	70
572	IndrayaniCommunication Pvt. Ltd	0	66	66
573	Blueweb BroadbandServices Pvt. Ltd.	0	63	63
574	Delix Net Solutions Pvt. Ltd	0	62	62
575	Vidarbha Wi-Fi & Network Services Pvt. Ltd.	0	62	62
576	Broadstar Net India Pvt. Ltd.	0	60	60
577	Kim Broadband Services Pvt. Ltd.	0	60	60
578	MALACHANDRA BROADBAND SERVICES PRIVATE LIMITED	0	60	60
579	Quantasoul Aiologix Pvt. Ltd.	0	59	59
580	Infiber Broadnet Pvt. Ltd.	0	56	56
581	Nextra Teleservices Pvt. Ltd.	0	56	56
582	Aamak Network Pvt. Ltd.	0	54	54
583	Bloglytics Internet Pvt.Ltd	0	54	54
584	Ncore Creative Technologies Pvt. Ltd	54	0	54
585	Highnet Broadband & Technologies Pvt. Ltd.	0	49	49
586	SPEEDNET INFORMEDIA PVT LTD	0	49	49
587	Nelco Ltd.	3	45	48
588	Fibernet Solutions (OPC) Pvt. Ltd.	0	47	47
589	Streamax Broadband Services Pvt. Ltd	0	47	47
590	S.G.I.C SERVICES PRIVATE LIMITED	0	46	46
591	Ajay Cable & Broadband Service OPC Pvt. Ltd	0	45	45
592	SAMVAD TELECOM	0	45	45
593	TLN COMMUNICATION PRIVATE LIMITED	0	43	43
594	Edge Telecommunications Pvt. Ltd.	0	41	41
595	Gaxiom Networking Solutions Private Limited	0	40	40
596	Mesh Infranet Pvt. Ltd.	0	40	40
597	Gigalo Communication Private Limited	0	39	39
598	Divine Broadband Services Pvt. Ltd.	0	38	38
599	Jmohit Cable Vision Pvt. Ltd.	0	38	38
600	FASTHOOK NETWORKS PVT LTD	0	35	35
601	SPARKLIGHT INTERNET PRIVATE LIMITED	0	35	35
602	Tarantula WebNetworks Pvt. Ltd.	0	34	34
603	Bajpai Telecom Pvt. Ltd.	0	30	30
604	Bilal Internet Services Private Limited	0	28	28
605	IKRA Broadband Private Limited	0	28	28
606	Skynet Zone Wifi Services (P) Ltd.	0	28	28

S. No.	Name of Service Provider	Narrowband	Broadband	Total
607	Praveen Telecom Pvt. Ltd.	0	27	27
608	RAJNET CARE PRIVATE LIMITED	0	27	27
609	WE INTERNET LIMITED	0	27	27
610	SMPL Networks Pvt. Ltd.	0	26	26
611	Spacetrade Internet Pvt Ltd	0	26	26
612	Doonbroadband Pvt. Ltd.	0	25	25
613	DRONAGIRI INFOTECH PVT LTD	0	25	25
614	Sudhana Telecommunication Pvt Ltd.	0	25	25
615	Orange Business Services India Network Pvt. Ltd.	0	23	23
616	Pacific Internet India Pvt. Ltd.	0	23	23
617	NSD Internet Private Limited	0	22	22
618	Smartware Technologies Pvt. Ltd.	0	22	22
619	Marutham Networks Pvt. Ltd.	0	21	21
620	Pintwire Infomatics Pvt. Ltd.	0	21	21
621	Samruddhi Communication Pvt. Ltd.	0	20	20
622	Ultrawave Internet Access Pvt. Ltd.	5	14	19
623	Sun Broadband and Data Services PVT. LTD.	0	18	18
624	ERNET India	0	17	17
625	FASTJET TELECOM PRIVATE LIMITED	0	16	16
626	Angrow Netcomm Pvt. Ltd.	0	15	15
627	Microtel Internet Network Pvt. Ltd.	0	15	15
628	Fibmesh IN Limited	0	14	14
629	Nivid Telecom India Private Limited	0	13	13
630	Heramb T-10 Network Pvt. Ltd..	0	12	12
631	Hienet Internet Services Pvt. Ltd.	0	12	12
632	Mastek Infosystems OPC Pvt. Ltd.	0	10	10
633	VISHVA INFRATEL PRIVATE LIMITED	0	10	10
634	Tatanet Services Ltd	0	8	8
635	Ultradoon Networks Pvt. Ltd.	0	8	8
636	CIFY IT Services Pvt. Ltd.	0	7	7
637	Clear Beam Communication Pvt. Ltd.	0	7	7
638	Financial Technologies Communication Ltd.	0	7	7
639	Guru Netcom Pvt. Ltd.	0	7	7
640	PHONIX BROADBAND PRIVATE LIMITED	0	7	7
641	Riyaz Internet Services Pvt. Ltd.	0	7	7
642	Upnet Communications Pvt. Ltd.	0	6	6
643	Aristo Telenet Pvt Ltd	0	5	5
644	Critel Technologies Pvt. Ltd.	0	5	5

S. No.	Name of Service Provider	Narrowband	Broadband	Total
645	Passcom System and Services Pvt. Ltd.	0	5	5
646	Pier Communication Pvt. Ltd	0	5	5
647	ZAPTIC PVT. LTD.	0	5	5
648	A to Z Infolink Pvt. Ltd.	0	4	4
649	CLOUD8IN TECHNOLOGIES PRIVATE LIMITED	0	4	4
650	ESP Fibernet Pvt. Ltd.	0	4	4
651	ESTO MEDIA PRIVATE LIMITED	0	4	4
652	UBERCORE DATA LABS PVT LTD	0	4	4
653	AGILE NETLINK PRIVATE LIMITED	0	3	3
654	Cloudcast Digital Ltd.	0	3	3
655	Kartik Network Pvt. Ltd.	0	3	3
656	AMBITION NETWORK SOLUTIONS INDIA PRIVATE LIMITED	0	2	2
657	Sabse Internet Services Provider Pvt Ltd	0	2	2
658	FLYFAST CONNECTIONS Pvt. LTD	0	1	1
659	Sahiba Silk Mills Pvt. Ltd.	0	1	1
660	SHYAM DATA & VOICE SERVICES PVT LTD	0	1	1
	Total	36593043	788295124	824888167
	Total (in million)	36.593	788.295	824.888

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

Annexure 1.6: Telecom Service Area-wise Public Wi-Fi Hotspots, as on 31st March 2022

Telecom Service Area	Number of Public Wi-Fi Hotspots	Number of Access Points	Number of unique Wi-Fi Users	Aggregate Data Consumed (GB)
Andhra Pradesh	7343	20045	322208	425110
Assam	779	1695	35829	34377
Bihar	3504	13308	188356	749819
Delhi	11792	23208	1663303	7314685
Gujarat	4517	13613	864136	10654290
Haryana	2098	6276	42140	219685
Himachal Pradesh	1035	2184	11408	13785
Jammu & Kashmir	1491	3318	63606	26955
Karnataka	5743	26001	9071325	2481657
Kerala	3644	7839	395027	240155
Kolkata	328	1101	68959	30456
Madhya Pradesh	4972	24266	126954	241225
Maharashtra	5769	15718	327506	304511
Mumbai	1665	15631	677086	2866891
North East	1570	3489	59882	76443
Orissa	2099	3582	48478	109397
Punjab	5679	8515	85669	319777
Rajasthan	3272	8414	90410	84963
Tamil Nadu	2407	7838	62590	63672
UP (East)	28282	115477	189829	384567
UP (West)	1790	7116	66068	159358
West Bengal	2043	9985	216266	115626
Total	101822	338619	14677035	26917403

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

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

S. No.	Name of Service Providers reported IP Telephony Minutes as on 31st March 2022
1	Alliance Broadband Services Pvt. Ltd.
2	Asianet Satellite Communications Ltd.
3	Blazenet Ltd.
4	City Online Services Ltd.
5	Citycom Networks Pvt. Ltd.
6	delDSL Internet Pvt Ltd
7	Pulse Telesystems Pvt. Ltd.
8	Sify Technologies Ltd.
9	Tata Communications Limited
10	Trikon Electronics Pvt. Ltd.
11	World Phone Internet Services Pvt. Ltd.
12	You Broadband & Cable India Pvt. Ltd.
13	Warmconnect Internet Services Pvt. Ltd.

Annexure 1.8: Service Area wise PMRTS subscriber Base

S.No.	DOT Licensed Service	Area Served	Service Provider	Subscriber Base	
				31.12.2021	31.03.2022
1	Andhra Pradesh	Hyderabad	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	2,880	3,036
			QuickCall	1,038	1,048
		Visakhapatnam	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	3,927	4,006
		Total		7,845	8,090
2	Delhi	Delhi	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	6,818	7,690
			Procall Ltd.	3,051	3,087
		Total		9,869	10,777
3	Gujarat	Ahmedabad	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	958	1,001
		Amrela	Inative Networks Pvt. Ltd.	-	-
		Bharuch	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,506	1,501
			Inative Networks Pvt. Ltd.	-	-
		Dahej	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,393	1,471
		Jamnagar	Inative Networks Pvt. Ltd.	360	360
		Kutch	Inative Networks Pvt. Ltd.	205	205
		Surat	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,732	1,749
			Inative Networks Pvt. Ltd.	895	895
		Vadodara	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,991	1,942
Inative Networks Pvt. Ltd.	360		360		
Total		9,400	9,484		
4	Karnataka	Bangalore	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,289	7,360
			QuickCall	486	480
		Total		7,775	7,840
5	Kerala	Ernakulam	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,021	1,020
		Kerala	Wiwonet Solutions Pvt. Ltd	857	1,041
		Total		1,878	2,061
6	Kolkata	Kolkata	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,765	1,782
7	Madhya Pradesh	Indore	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,611	1,723
8	Maharashtra	Pune	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	2,065	2,143
			Smartalk Pvt Ltd.	717	720
		Total		2,782	2,863
9	Mumbai	Mumbai	Airtalk Solutions & Services Pvt. Ltd.	495	525
			Arya Omnitalk Radio Trunking Services Pvt.Ltd.	8,947	9,658
			Bhilwara Telenet Services Pvt.Ltd.	872	926
			Smartalk Pvt Ltd.	861	979
		Total		11,175	12,088
10	Rajasthan	Jaipur	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	798	880
			Procall Ltd.	424	423
		Total		1,222	1,303
11	Tamil Nadu	Chennai	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,593	7,876
			QuickCall	502	505
		Total		8,095	8,381
Grand Total				63,417	66,392

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

Key parameters for service areas of category-A

Service Area	% of pre-paid in total subscribers	ARPU (Rs. per month)	Total usage (from & outside HSA) per subscriber per month			
			Outgoing SMS	Outgoing MOU	Incoming MOU	Total MOU
AP	93.70%	153	12	494	421	915
Gujarat	93.78%	136	18	432	358	790
Karnataka	91.36%	147	16	491	432	924
MH	94.16%	141	13	466	372	838
TN (incl. Chennai)	91.89%	153	11	447	396	843

Key parameters for service areas of category-B

Service Area	% of pre-paid in total Subscribers	ARPU (Rs. per month)	Total usage (from & outside HSA) per subscriber per month			
			Outgoing SMS	Outgoing MOU	Incoming MOU	Total MOU
Haryana	94.97%	106	8	405	381	786
Kerala	96.74%	144	6	311	309	620
MP	95.36%	122	14	557	439	996
Punjab	94.60%	134	9	403	369	772
Rajasthan	95.78%	126	15	501	442	943
UP(E)	96.56%	97	11	586	555	1141
UP(W)	96.47%	112	11	475	443	918
WB	97.72%	120	14	573	489	1062

Key parameters for service areas of category-C

Service Area	% of pre-paid in total subscribers	ARPU (Rs. per month)	Total usage (from & outside HSA) per subscriber per month			
			Outgoing SMS	Outgoing MOU	Incoming MOU	Total MOU
Assam	97.07%	132	27	574	517	1090
Bihar	96.24%	113	12	684	664	1348
HP	97.74%	130	9	452	383	835
J&K	47.40%	149	26	691	535	1226
NE	97.68%	154	28	505	452	956
Odisha	96.66%	127	16	644	544	1188

Key parameters for service areas of category-Metro

Service Area	% of pre-paid in total subscribers	ARPU (Rs. per month)	Total usage (from & outside HSA) per subscriber per month			
			Outgoing SMS	Outgoing MOU	Incoming MOU	Total MOU
Kolkata	93.23%	96	12	502	398	900
Delhi	73.61%	103	19	480	425	905
Mumbai	78.74%	119	10	443	369	812

Annexure 4.1: Performance of QoS Parameters for Cellular Mobile Service

Name of Service Area	Name of Service Provider	Network Related Parameters										Customer Service Quality Parameters									
		Network Availability		Connection Establishment (Accessibility)			Connection Maintenance (Retainability)			POI			Metering and billing				Response time to the customer for assistance		Termination / closure of service		
		BS Accumulated down-time (not available for service) (%)	Worst affected BSs due to down-time (%)	Call Set-up Success Rate and Session Establishment Success Rate for Circuit Switched Voice or VoLTE as applicable (within licensee's)	SDCCH/Paging Channel Congestion/RRC Congestion (%)	TCH, RAB and E-RAB Congestion (%)	Network QoS DCR Spatial Distribution Measure [Network_QSD(90,90)]	Network QoS DCR Temporal Distribution Measure [Network_QTD(97,90)]	Connections with good voice quality, Circuit Switched Voice Quality and VoLTE quality	Point of Interconnection (POI) Congestion (No. of POIs not meeting the benchmark) (Averaged over a period of quarter)	Down Link (DL) Packet Drop Rate or DL-PDR	Up Link (UL) Packet Drop Rate or UL-PDR	Metering and billing credibility - post paid	Metering and billing credibility - pre paid	Resolution of billing/charging complaints	Period of applying credit/waiver/adjustment to customer's account from the date of resolution of complaints	Accessibility of call centre/ customer care	Percentage of calls answered by the operators (voice to voice) within 90 seconds	%age requests for Termination / Closure of service complied within 7 days	Time taken for refund of deposits after closures	
		≤ 2%	≤ 2%	≥ 95%	≤ 1%	≤ 2%	≤ 2%	≤ 3%	≥ 95%	≤ 0.5%	≤ 2%	≤ 2%	≤ 0.1%	≤ 0.1%	98% within 4 weeks	100% within 6 weeks	within 1 week of resolution of complaint	≥ 95%	≥ 95%	100% within 7 days	100% within 60 days
The achievement of benchmark against each parameter is to be averaged over a period of one quarter for 2G, 3G and 4G VoLTE Services (combined) as per the measurement methodology explained in Explanatory Memorandum to regulations																					
Andhra Pradesh	Airtel	0.16	0.75	99.47	0.28	0.39	1.23	1.43	95.98	0	0.14	0.12	0.02	0.00	100.00	100.00	100.00	100.00	97.00	100.00	100.00
	BSNL	1.34	1.85	98.84	0.77	0.67	1.65	1.79	98.65	0	0.10	0.19	0.00	0.00	100.00	100.00	100.00	88.50	37.45	100.00	100.00
	RJIL	0.03	0.03	99.57	0.06	0.00	0.14	0.26	99.97	0	0.00	0.06	0.00	0.00	100.00	100.00	100.00	97.48	98.66	100.00	100.00
	VIL	0.07	0.31	99.16	0.28	0.31	1.69	2.37	98.03	0	0.01	0.16	0.00	0.00	100.00	100.00	100.00	98.84	99.98	100.00	100.00
Assam	Airtel	0.24	1.19	98.75	0.24	0.71	1.88	2.00	96.91	0	0.15	0.14	0.00	0.00	100.00	100.00	100.00	100.00	94.00	100.00	100.00
	BSNL	1.74	0.37	98.68	0.77	1.75	1.95	2.11	98.44	0	1.55	1.85	0.02	0.00	100.00	100.00	100.00	96.50	97.52	100.00	100.00
	RJIL	0.18	0.60	99.72	0.03	0.00	0.70	0.84	99.96	0	0.00	0.08	0.00	0.00	100.00	100.00	100.00	97.77	99.01	100.00	100.00
Bihar	VIL	0.37	1.90	99.28	0.28	0.56	1.96	2.72	98.77	0	0.08	0.10	0.01	0.00	100.00	100.00	100.00	98.53	100.00	100.00	100.00
	Airtel	0.18	0.07	97.72	0.27	0.64	1.58	1.67	98.07	0	0.10	0.36	0.00	0.00	100.00	100.00	100.00	100.00	97.00	100.00	100.00
	BSNL	1.94	0.62	95.53	0.33	0.36	1.87	2.29	98.40	0	0.00	0.00	0.00	0.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Delhi	RJIL	0.10	0.31	99.36	0.00	0.00	0.33	0.42	99.96	0	0.00	0.08	0.00	0.00	100.00	100.00	100.00	96.42	98.47	100.00	100.00
	VIL	0.03	1.42	99.07	0.15	0.14	1.54	2.18	99.23	0	0.01	0.02	0.00	0.00	100.00	100.00	100.00	96.13	99.99	100.00	100.00
	Airtel	0.09	0.09	99.26	0.09	0.16	1.82	2.24	95.36	0	0.92	0.19	0.00	0.00	100.00	100.00	100.00	100.00	97.00	100.00	100.00
Gujarat	MTNL	0.06	0.65	97.40	0.09	0.85	1.29	1.49	98.19	0	NA	NA	0.00	0.00	100.00	100.00	100.00	99.87	99.67	100.00	100.00
	RJIL	0.09	0.20	99.46	0.00	0.00	0.13	0.24	99.97	0	0.00	0.06	0.00	0.00	100.00	100.00	100.00	98.24	98.89	100.00	100.00
	VIL	0.07	0.19	99.84	0.26	0.15	0.99	1.43	99.67	0	0.17	0.27	0.01	0.01	100.00	100.00	100.00	99.08	99.99	100.00	100.00
Haryana	Airtel	0.07	0.23	99.18	0.22	0.41	1.76	2.22	96.22	0	0.09	0.19	0.00	0.00	100.00	100.00	100.00	100.00	96.00	100.00	100.00
	BSNL	1.29	0.39	97.89	0.18	0.69	1.42	2.27	98.54	0	0.08	0.17	0.00	0.00	100.00	100.00	100.00	99.33	96.72	100.00	100.00
	RJIL	0.08	0.15	99.65	0.03	0.00	0.12	0.23	99.97	0	0.00	0.06	0.00	0.00	100.00	100.00	100.00	98.32	98.74	100.00	100.00
Himachal Pradesh	VIL	0.05	0.14	99.58	0.07	0.30	1.51	2.00	98.44	0	0.16	0.16	0.01	0.00	100.00	100.00	100.00	98.48	99.99	100.00	100.00
	Airtel	0.13	0.83	99.56	0.20	0.24	1.35	2.50	95.41	0	0.13	0.22	0.00	0.00	100.00	100.00	100.00	100.00	97.00	100.00	100.00
	BSNL	0.64	0.13	98.62	0.71	0.80	1.59	1.77	97.28	0	0.17	0.51	0.02	0.00	100.00	100.00	100.00	95.35	99.74	100.00	100.00
Jammu & Kashmir	RJIL	0.09	0.31	99.58	0.00	0.00	0.21	0.38	99.97	0	0.00	0.06	0.00	0.00	100.00	100.00	100.00	98.07	98.89	100.00	100.00
	VIL	0.12	0.39	99.60	0.24	0.39	1.65	2.44	98.56	0	0.10	0.14	0.00	0.01	100.00	100.00	100.00	98.46	99.98	100.00	100.00
	Airtel	0.17	0.62	99.55	0.31	0.01	1.95	2.46	95.30	0	0.14	0.13	0.00	0.00	100.00	100.00	100.00	100.00	98.00	100.00	100.00
Jammu & Kashmir	BSNL	1.96	0.33	98.06	0.57	0.81	1.94	2.07	97.52	0	0.00	0.00	0.01	0.00	100.00	100.00	100.00	97.75	95.98	100.00	100.00
	RJIL	0.13	0.62	99.68	0.00	0.00	0.15	0.30	99.98	0	0.00	0.05	0.00	0.00	100.00	100.00	100.00	98.15	99.05	100.00	100.00
	VIL	0.11	0.32	99.11	0.37	0.45	1.89	2.78	97.65	0	0.22	0.25	0.02	0.01	100.00	100.00	100.00	99.76	99.98	100.00	100.00
Jammu & Kashmir	Airtel	0.29	1.77	99.23	0.05	0.05	1.61	2.36	95.40	0	0.17	0.16	0.00	0.00	100.00	100.00	100.00	100.00	96.00	100.00	100.00
	BSNL	1.76	0.56	97.26	0.85	1.02	1.99	2.63	95.46	0	0.02	0.11	0.00	0.00	100.00	100.00	100.00	96.00	99.61	100.00	100.00
	RJIL	0.16	0.62	99.66	0.00	0.00	0.16	0.29	99.97	0	0.00	0.05	0.00	0.00	100.00	100.00	100.00	97.41	99.28	100.00	100.00
VIL	0.31	1.79	99.54	0.12	0.17	1.72	2.63	97.81	0	0.26	0.20	0.01	0.01	100.00	100.00	100.00	99.97	99.98	100.00	100.00	

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

Quarterly Performance Monitoring Report (PMR) on QoS of Basic Telephone Service (Wireline) for QE March 2022																		
S. No.	Name of Service Area	Name of Service Provider	Faults incidences (No. of faults/ 100 Subs./ month)	Fault Repair				Mean Time to Repair (MTTR)	POI Point of Interconnection (POI) Congestion (No. of POIs not meeting the benchmark)	Mean Time to Repair (MTR)				Response time to the customer for Assistance		Termination / closure of service		
				% of faults repaired by next working day	% of faults repaired within 5 days	% of faults repaired by next working day	% of faults repaired within 7 days			Metering and Billing credibility - post paid	Metering and billing credibility - pre paid	Resolution of billing/ charging/ validity complaints	Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution of complaints	Accessibility of call central/ customer care	Percentage of calls answered by the operators (Voice to voice) within 90 seconds	%age requests for Termination / Closure of service complied within 7 days	Time taken for refund of deposits after closures	
				≤7	For urban areas by next working day: ≥85%	For urban areas: ≥ 100%	For rural and hilly areas: ≥ 75%			For rural and hilly areas: ≥ 100%	≤ 10 Hrs	≤0.5%	≤0.1%	≤0.1%	98% within 4 weeks	100% within 6 weeks	1 week of resolution of complaint	≥95%
1	Andhra Pradesh	Bharti Airtel	1	95.35%	100.00%	NA	NA	6.76	0	0.01%	NA	100.00%	100.00%	100.00%	100.00%	96.00%	100.00%	100.00%
2		BSNL	5	97.00%	100.00%	95.00%	100.00%	6	0	0.00%	0.00%	100.00%	100.00%	100.00%	97.96%	97.95%	100.00%	100.00%
3		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	95.03%	98.74%	100.00%	100.00%
4		Tata	6	95.35%	100.00%	100.00%	100.00%	5.25	0	0.00%	NA	100.00%	100.00%	100.00%	99.00%	98.00%	100.00%	100.00%
5		VIL	0	100.00%	100.00%	NA	NA	3.11	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
6	Assam	BSNL	3	93.00%	100.00%	91.00%	100.00%	4	0	0.00%	0.00%	100.00%	100.00%	100.00%	97.21%	96.73%	100.00%	100.00%
7		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	100.00%	98.26%	100.00%	100.00%
8		VIL	2	100.00%	100.00%	NA	NA	6.53	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
9	Bihar	BSNL	3	95.00%	100.00%	96.00%	100.00%	4	0	0.01%	0.00%	98.00%	100.00%	100.00%	98.22%	97.88%	100.00%	100.00%
10		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	96.43%	99.13%	100.00%	100.00%
11		Tata	0	100.00%	100.00%	100.00%	100.00%	1.80	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
12		VIL	1	100.00%	100.00%	NA	NA	6.22	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
13	Delhi	Bharti Airtel	1	96.47%	100.00%	NA	NA	8.98	0	0.01%	NA	100.00%	100.00%	100.00%	100.00%	97.00%	100.00%	100.00%
14		MTNL	2	70.34%	90.65%	NA	NA	13.33	0	0.00%	0.00%	100.00%	100.00%	100.00%	99.93%	99.82%	100.00%	100.00%
15		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	95.95%	98.51%	100.00%	100.00%
16		Tata	2	92.96%	100.00%	100.00%	100.00%	4.77	0	0.00%	NA	100.00%	100.00%	100.00%	99.00%	96.00%	100.00%	100.00%
17		VIL	0	100.00%	100.00%	NA	NA	2.30	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA

Annexure 4.2 (Contd.)

18	Gujarat	Bharti Airtel	0	88.95%	100.00%	NA	NA	8.91	0	0.01%	NA	100.00%	100.00%	100.00%	100.00%	98.00%	100.00%	100.00%
19		BSNL	5	95.00%	100.00%	94.00%	100.00%	5	0	0.01%	0.00%	100.00%	100.00%	100.00%	99.64%	99.64%	100.00%	100.00%
20		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	96.15%	99.18%	100.00%	100.00%
21		Tata	2	91.69%	100.00%	100.00%	100.00%	6.36	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	96.00%	100.00%	100.00%
22		VIL	0	100.00%	100.00%	NA	NA	6.26	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
23	Himachal Pradesh	BSNL	6	89.00%	100.00%	93.00%	100.00%	7	0	0.02%	0.00%	99.00%	100.00%	100.00%	100.00%	99.48%	100.00%	96.50%
24		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	100.00%	99.74%	100.00%	100.00%
25		Tata	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
26		VIL	0	100.00%	100.00%	NA	NA	0.00	0	NA	NA	NA	NA	NA	95.00%	100.00%	NA	NA
27	Haryana	Bharti Airtel	0	86.05%	100.00%	NA	NA	4.71	0	0.01%	NA	100.00%	100.00%	100.00%	100.00%	96.00%	100.00%	100.00%
28		BSNL	5	91.00%	100.00%	88.00%	100.00%	6	0	0.09%	0.00%	100.00%	100.00%	100.00%	99.06%	99.56%	100.00%	100.00%
29		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	100.00%	100.00%	100.00%	100.00%
30		Tata	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
31		VIL	4	100.00%	100.00%	NA	NA	2.20	0	NA	NA	NA	NA	NA	95.00%	100.00%	NA	NA
32	Jammu & Kashmir	Bharti Airtel	0	86.84%	100.00%	NA	NA	5.59	0	0.01%	NA	100.00%	100.00%	100.00%	100.00%	98.00%	100.00%	100.00%
33		BSNL	4	97.00%	100.00%	94.00%	100.00%	7	0	0.01%	0.00%	98.00%	100.00%	100.00%	100.00%	99.90%	100.00%	100.00%
34		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	95.83%	99.68%	100.00%	100.00%
35		VIL	0	100.00%	100.00%	NA	NA	0.00	0	NA	NA	NA	NA	NA	95.00%	100.00%	NA	NA
36	Karnataka	Bharti Airtel	1	90.79%	100.00%	NA	NA	9.46	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	95.00%	100.00%	100.00%
37		BSNL	6	88.00%	100.00%	92.00%	100.00%	7	0	0.09%	0.00%	98.00%	100.00%	100.00%	97.16%	97.16%	100.00%	100.00%
38		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	96.55%	99.76%	100.00%	100.00%
39		Tata	0	89.22%	100.00%	100.00%	100.00%	8.17	0	0.00%	NA	100.00%	100.00%	100.00%	99.00%	99.00%	99.00%	100.00%
40		VIL	0	100.00%	100.00%	NA	NA	3.37	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
41	Kerala	Bharti Airtel	1	93.37%	100.00%	NA	NA	7.24	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	92.00%	100.00%	100.00%
42		BSNL	4	93.00%	100.00%	92.00%	100.00%	7	0	0.02%	0.00%	100.00%	100.00%	100.00%	97.73%	97.68%	100.00%	100.00%
43		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	95.65%	98.70%	100.00%	100.00%
44		Tata	0	100.00%	100.00%	100.00%	100.00%	2.52	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
45		VIL	0	100.00%	100.00%	NA	NA	4.16	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
46	Kolkata	Bharti Airtel	0	93.64%	100.00%	NA	NA	9.38	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	97.00%	100.00%	100.00%
47		BSNL	6	91.00%	100.00%	NA	NA	8	0	0.00%	0.00%	98.00%	100.00%	100.00%	96.30%	96.23%	100.00%	100.00%
48		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	96.10%	96.75%	100.00%	100.00%
49		Tata	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
50		VIL	0	100.00%	100.00%	NA	NA	4.14	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
51	Maharashtra	Bharti Airtel	0	95.32%	100.00%	NA	NA	8.75	0	0.01%	NA	100.00%	100.00%	100.00%	100.00%	98.00%	100.00%	100.00%
52		BSNL	6	86.00%	100.00%	77.00%	100.00%	8	0	0.01%	0.00%	100.00%	100.00%	100.00%	99.55%	99.55%	100.00%	100.00%
53		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	96.30%	100.00%	100.00%	100.00%
54		Tata	2	92.82%	100.00%	100.00%	100.00%	6.23	0	0.00%	NA	100.00%	100.00%	100.00%	99.00%	98.00%	100.00%	100.00%
55		VIL	0	100.00%	100.00%	NA	NA	6.31	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
56	Madhya Pradesh	Bharti Airtel	0	85.10%	100.00%	NA	NA	4.67	0	0.01%	NA	100.00%	100.00%	100.00%	100.00%	96.00%	100.00%	100.00%
57		BSNL	6	88.00%	100.00%	90.00%	100.00%	5	0	0.01%	0.00%	100.00%	100.00%	100.00%	99.62%	99.57%	100.00%	100.00%
58		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	96.35%	98.71%	100.00%	100.00%
59		Tata	3	100.00%	100.00%	100.00%	100.00%	1.65	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	99.00%	100.00%	100.00%
60		VIL	0	100.00%	100.00%	NA	NA	3.13	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA

Annexure 4.2 (Contd.)

61	Mumbai	Bharti Airtel	0	90.97%	100.00%	NA	NA	8.81	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	97.00%	100.00%	100.00%
62		MTNL	2	71.00%	87.90%	NA	NA	23.37	0	0.00	NA	99.80%	100.00%	100.00%	98.69%	97.61%	99.84%	29.93%
63		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	96.90%	99.81%	100.00%	100.00%
64		Tata	4	88.50%	100.00%	100.00%	100.00%	9.16	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	98.00%	100.00%	100.00%
65		VIL	0	100.00%	100.00%	NA	NA	3.51	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
66	North East	RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00	0.00%	NA	NA	NA	100.00%	100.00%	100.00%	100.00%
67		VIL	0	100.00%	100.00%	NA	NA	0.00	0	NA	NA	NA	NA	NA	95.00%	100.00%	NA	NA
68	Odisha	BSNL	5	93.00%	100.00%	92.00%	100.00%	6	0	0.01%	0.00%	100.00%	100.00%	100.00%	97.81%	97.65%	100.00%	100.00%
69		BSNL	4	93.00%	100.00%	88.00%	100.00%	8	0	0.09%	0.00%	99.00%	100.00%	100.00%	97.99%	97.88%	100.00%	100.00%
70		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	95.65%	100.00%	100.00%	100.00%
71		Tata	3	100.00%	100.00%	100.00%	100.00%	1.79	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
72		VIL	0	100.00%	100.00%	NA	NA	0.34	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
73	Punjab	Bharti Airtel	0	85.86%	100.00%	NA	NA	5.03	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	96.00%	100.00%	100.00%
74		BSNL	6	91.00%	100.00%	89.00%	100.00%	6	0	0.01%	0.00%	98.00%	100.00%	100.00%	100.00%	100.00%	100.00%	98.60%
75		Quadrant	6	92.30%	100.00%	100.00%	100.00%	6.12	0	0.00%	0.00%	100.00%	100.00%	100.00%	99.04%	96.32%	100.00%	100.00%
76		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	96.77%	99.27%	100.00%	100.00%
77		Tata	1	100.00%	100.00%	100.00%	100.00%	5.28	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
78	VIL	0	100.00%	100.00%	NA	NA	0.44	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA	
79	Rajasthan	Bharti Airtel	0	86.12%	100.00%	NA	NA	4.98	0	0.01%	NA	100.00%	100.00%	100.00%	100.00%	97.00%	100.00%	100.00%
80		BSNL	5	95.00%	100.00%	95.00%	100.00%	6	0	0.09%	0.00%	99.00%	100.00%	100.00%	99.41%	99.84%	100.00%	0.00%
81		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	96.61%	98.51%	100.00%	100.00%
82		Tata	5	100.00%	100.00%	100.00%	100.00%	2.55	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
83		VIL	0	100.00%	100.00%	NA	NA	5.00	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
84	Tamil Nadu	Bharti Airtel	1	92.30%	100.00%	NA	NA	8.22	0	0.01%	NA	100.00%	100.00%	100.00%	100.00%	93.00%	100.00%	100.00%
85		BSNL	5	95.00%	100.00%	91.00%	100.00%	6	0	0.04%	0.00%	100.00%	100.00%	100.00%	97.90%	97.88%	100.00%	100.00%
86		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	96.38%	97.34%	100.00%	100.00%
87		Tata	0	96.39%	100.00%	100.00%	100.00%	3.11	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	99.00%	100.00%	100.00%
88		VIL	0	100.00%	100.00%	NA	NA	3.29	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
89	UPE	Bharti Airtel	0	94.86%	100.00%	NA	NA	9.80	0	0.01%	NA	100.00%	100.00%	100.00%	100.00%	97.00%	100.00%	100.00%
90		BSNL	6	89.00%	100.00%	88.00%	100.00%	8	0	0.08%	0.00%	100.00%	100.00%	100.00%	100.00%	99.87%	100.00%	100.00%
91		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	96.58%	99.45%	100.00%	100.00%
92		Tata	2	100.00%	100.00%	100.00%	100.00%	0.96	0	0.00%	NA	100.00%	100.00%	100.00%	98.00%	99.00%	100.00%	100.00%
93		VIL	0	100.00%	100.00%	NA	NA	1.59	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
94	UPW	Bharti Airtel	0	94.98%	100.00%	NA	NA	9.80	0	0.01%	NA	100.00%	100.00%	100.00%	100.00%	97.00%	100.00%	100.00%
95		BSNL	7	96.00%	100.00%	93.00%	100.00%	8	0	0.06%	0.00%	99.00%	100.00%	100.00%	100.00%	99.71%	100.00%	100.00%
96		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	97.47%	99.76%	100.00%	100.00%
97		Tata	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
98		VIL	1	100.00%	100.00%	NA	NA	5.28	0	NA	NA	NA	NA	NA	95.00%	100.00%	100.00%	NA
99	West Bengal	BSNL	3	87.00%	100.00%	86.00%	100.00%	6	0	0.00%	0.00%	98.00%	100.00%	100.00%	97.97%	97.97%	100.00%	100.00%
100		RJIL	0	100.00%	100.00%	100.00%	100.00%	0.00	0	0.00%	0.00%	NA	NA	NA	97.33%	99.12%	100.00%	100.00%
101		Tata	1	100.00%	100.00%	100.00%	100.00%	2.16	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
102		VIL	1	100.00%	100.00%	NA	NA	0.52	0	NA	NA	NA	NA	NA	95.00%	100.00%	NA	NA
Note: NA means Not applicable																		

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

S.No.	Service Provider	LSA	Service Provisioning	Fault Repair		Billing Performance		Response Time to the Customer for assistance		Bandwidth utilisation/throughput				Service availability /uptime (for all users) in %ag	Packet loss (for wired broadband access) in %ag	Network latency (for wired broadband access)			
			%Age Of Connections Provided Within 15 Days Of Registration Of Demand	% of Faults Repaired By Next Working Day (>90%)	% of Faults Repaired Within 3 Working Day	%Age Of Bills Disputed	%Age Of Billing Complaints Resolved Within 4 Weeks	%Age Of Cases To Whom Refund Of Deposits Is Made Within 60 Days Of Closures	%Age of calls answered by operator (Voice to voice) within 60 sec	%Age of calls answered by operator (Voice to voice) within 90 sec	No. of Intra network links having Bandwidth utilisation >50% during peak hours (TCBH)	No. Upstream links for international connectivity having bandwidth utilisation > 50% during peak hours (TCBH)	% International bandwidth utilisation during peak hours (TCBH) (Enclose WRTG) <90%			Broadband Connection Speed available (download) from ISP node to user	User reference point at POP/ISP Gateway node to ISP/NIIX	User reference point at ISP Gateway node to International nearest NAP port abroad (terrestrial)	User reference point at ISP Gateway node to International nearest NAP port abroad (satellite)
			100%	>90%	=>99%	<2%	100% within 4 weeks	100% within 60 days	>60%	>80%	0	0	<90%			>80%	>98%	<1%	<120 ms
1	Airfiber Networks Pvt. Ltd.	Karnataka	100.00	95.00	99.90	0.00	100.00	100.00	93.00	99.00	0	0	71.00	99.00	100.00	0.50	23	246	0
		Tamilnadu	100.00	95.00	99.90	0.04	100.00	100.00	93.00	99.00	0	0	57.00	99.00	100.00	0.50	22	245	0
2	Airlink Communications Pvt. Ltd.	All India	100.00	91.32	99.34	0.00	100.00	100.00	99.95	100.00	0	0	77.83	98.80	99.86	0.47	80	275	0
3	Airnet Cable and Datacom Pvt. Ltd.	Maharashtra	100.00	98.33	100.00	0.00	100.00	100.00	95.00	100.00	0	0	2.37	100.00	100.00	0.49	4	225	0
		Mumbai	100.00	93.00	99.00	0.17	100.00	100.00	87.00	94.00	0	0	18.62	100.00	100.00	0.53	4	228	0
4	Alliance Broadband Services Pvt. Ltd.	All India	100.00	91.95	100.00	0.00	100.00	100.00	83.33	100.00	0	0	59.30	97.40	99.73	0.00	2	4	102
5	Angel Air Network Solutions Private Limited	Punjab	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0	0	81.00	90.00	100.00	0.00	20	25	40
		Rajasthan	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0	0	81.00	90.00	100.00	0.00	20	25	40
6	ANI NETWORK PVT LTD	Delhi	100.00	93.00	100.00	0.00	100.00	100.00	99.00	100.00	0	0	88.00	100.00	99.00	0.40	20	288	0
7	Asianet Satellite Communications Ltd.	All India	100.00	90.41	99.81	0.26	100.00	100.00	60.62	80.50	0	0	59.33	91.00	99.87	0.81	56	229	0
8	Atria Convergence Technologies Pvt. Ltd.	All India	100.00	96.75	99.72	0.75	100.00	100.00	72.96	77.21	0	0	44.38	95.53	99.95	0.00	17	167	0
9	Bharat Sanchar Nigam Ltd.	All India	100.00	94.15	99.73	0.09	100.00	98.91	93.24	95.64	0	0	65.40	93.90	99.31	0.40	42	92	0
		Andhra Pradesh	100.00	96.48	99.95	0.02	100.00	100.00	96.25	97.81	0	0	44.23	100.00	99.90	0.00	7	23	0
10	Bharti Airtel Ltd.	Assam	100.00	96.53	100.00	0.03	100.00	100.00	96.41	98.41	0	0	30.23	100.00	99.75	0.00	69	76	0
		Bihar	100.00	91.57	99.83	0.03	100.00	100.00	95.44	97.78	0	0	32.98	100.00	99.76	0.00	66	70	0
		Delhi	100.00	95.47	100.00	0.02	100.00	100.00	95.93	97.81	0	0	38.60	100.00	99.97	0.00	37	75	0
		Gujarat	100.00	95.05	99.55	0.03	100.00	100.00	95.52	97.65	0	0	41.29	100.00	99.89	0.00	47	64	0
		Haryana	100.00	91.64	99.45	0.03	100.00	100.00	96.04	97.88	0	0	0.00	100.00	99.82	0.00	76	0	0
		Himachal Pradesh	100.00	91.14	99.68	0.02	100.00	100.00	97.31	98.73	0	0	0.00	100.00	99.81	0.00	40	0	0
		Jammu & Kashmir	100.00	91.13	99.32	0.03	100.00	100.00	95.71	98.08	0	0	26.91	100.00	99.45	0.00	58	79	0
		Karnataka	100.00	90.43	100.00	0.01	100.00	100.00	96.24	97.76	0	0	34.65	100.00	99.93	0.00	11	44	0
		Kerala	100.00	94.51	99.84	0.01	100.00	100.00	94.81	96.55	0	0	28.99	100.00	99.93	0.00	28	42	0
		Kolkata	100.00	94.55	100.00	0.02	100.00	100.00	94.48	97.24	0	0	40.70	100.00	99.93	0.00	43	68	0
		Madhya Pradesh	100.00	90.08	99.06	0.03	100.00	100.00	94.80	97.14	0	0	46.84	100.00	99.85	0.00	64	62	0
		Maharashtra	100.00	94.62	99.35	0.03	100.00	100.00	95.16	97.60	0	0	37.53	100.00	99.78	0.00	17	53	0
		Mumbai	100.00	94.79	99.30	0.02	100.00	100.00	96.10	97.84	0	0	30.81	100.00	99.82	0.00	37	59	0
		North East	100.00	96.08	100.00	0.01	100.00	100.00	98.25	98.97	0	0	0.00	100.00	99.66	0.00	87	0	0
		Odisha	100.00	95.28	100.00	0.01	100.00	100.00	97.57	98.68	0	0	0.00	100.00	99.51	0.00	74	0	0
		Punjab	100.00	90.14	99.31	0.02	100.00	100.00	95.89	97.75	0	0	29.71	100.00	99.84	0.00	79	79	0
		Rajasthan	100.00	92.50	99.81	0.03	100.00	100.00	96.15	97.97	0	0	29.98	100.00	99.88	0.00	45	71	0
Tamilnadu	100.00	93.49	99.94	0.02	100.00	100.00	95.44	97.35	0	0	27.47	100.00	99.93	0.00	5	35	0		
Uttar Pradesh (East)	100.00	91.18	99.54	0.03	100.00	100.00	95.04	97.61	0	0	33.24	100.00	99.78	0.00	20	74	0		
Uttar Pradesh (West)	100.00	91.76	99.59	0.04	100.00	100.00	95.68	97.96	0	0	0.00	100.00	99.77	0.00	23	0	0		
West Bengal	100.00	92.26	100.00	0.01	100.00	100.00	96.52	98.17	0	0	41.76	100.00	99.51	0.00	57	67	0		
11	Candor Infosolution Pvt. Ltd.	Delhi	100.00	99.00	100.00	0.11	100.00	100.00	100.00	100.00	0	0	89.00	90.00	100.00	0.00	90	250	350
12	City Online Services Ltd	Andhra Pradesh	100.00	99.00	99.00	0.00	100.00	100.00	98.00	99.00	0	0	59.28	99.00	99.72	0.30	15	238	0
		Karnataka	100.00	98.00	99.00	0.00	100.00	100.00	95.50	98.17	0	0	77.50	97.87	99.72	0.57	18	280	0
13	D-Vois Communication Private Limited	All India	100.00	95.00	99.84	0.00	100.00	100.00	91.00	99.00	0	0	0.00	90.00	99.97	0.10	24	28	59
14	DDC BROADBAND PRIVATE LIMITED	Delhi	100.00	97.00	100.00	0.01	100.00	100.00	92.00	95.00	0	0	88.16	98.00	100.00	0.50	11	171	0
15	DEN Broadband Limited	All India	100.00	98.56	99.95	0.00	100.00	100.00	86.00	90.00	0	0	53.87	92.33	99.03	0.62	75	307	0
16	Digital Network Associates Pvt. Ltd.	Maharashtra	100.00	90.51	99.11	0.00	100.00	100.00	65.09	81.98	0	0	80.00	83.00	99.77	0.85	4	255	600
		Mumbai	100.00	99.65	100.00	0.00	100.00	100.00	92.17	96.39	0	0	80.00	81.00	99.77	0.25	4	255	600

Annexure 4.3 (Contd.)

17	DL GTPL Broadband Pvt. Ltd.	Gujarat	100.00	94.00	99.00	0.00	100.00	100.00	93.00	96.00	0	0	60.10	85.00	99.17	0.00	0	0	0
		Maharashtra	100.00	96.00	99.00	0.00	100.00	100.00	99.00	99.00	0	0	60.10	85.00	99.31	0.00	0	0	0
18	DNA Infotel Pvt Ltd	Maharashtra	100.00	90.53	99.11	0.00	100.00	100.00	65.72	82.22	0	0	80.00	83.00	99.77	0.90	4	255	600
19	Dwan Supports Pvt. Ltd.	All India	100.00	95.67	100.00	0.00	100.00	100.00	91.67	99.00	0	0	78.33	95.33	99.86	0.04	44	245	455
20	ESTO BROADBAND Pvt. Ltd.	All India	100.00	95.05	100.00	0.00	100.00	100.00	91.66	98.33	0	0	42.02	90.00	99.03	0.00	40	100	720
21	Ethernet Xpress (I) Pvt. Ltd.	Maharashtra	100.00	93.60	99.40	0.26	100.00	100.00	93.30	94.60	0	0	20.00	99.00	100.00	0.10	30	300	650
22	Excell Media Pvt. Ltd.	Andhra Pradesh	100.00	93.26	99.86	0.00	100.00	100.00	93.00	96.66	0	0	77.09	97.33	98.92	0.50	10	300	0
23	Excitel Broadband Private Limited	All India	100.00	91.06	99.60	0.00	100.00	100.00	62.50	82.00	0	0	78.60	100.00	99.03	0.00	4	199	0
24	Five Network Solution (India) Ltd.	All India	100.00	99.50	100.00	0.00	100.00	100.00	100.00	100.00	0	0	0.00	90.00	99.86	0.60	0	0	0
25	Fusionnet Web Services Pvt. Ltd.	All India	100.00	95.34	99.56	0.00	100.00	100.00	75.83	84.28	0	0	57.00	100.00	100.00	0.00	5	230	0
26	Genstar Network Solutions Pvt. Ltd.	Mumbai	100.00	98.00	100.00	0.00	100.00	100.00	83.00	87.00	0	0	83.00	99.00	98.82	0.00	1	47	80
27	GTPL Broadband Pvt. Ltd.	All India	100.00	98.06	99.43	0.00	100.00	100.00	88.49	92.98	0	0	51.89	94.00	99.22	0.00	11	300	0
28	Hathway Cable & Datacom Pvt. Ltd.	All India	100.00	93.12	99.40	0.87	100.00	100.00	75.86	92.48	0	0	76.97	90.00	99.81	0.32	76	261	0
29	Honesty Net Solutions (I) Pvt Ltd	Mumbai	100.00	93.33	100.00	0.00	100.00	100.00	68.00	100.00	0	0	0.00	95.00	99.81	0.02	0	66	0
30	HYFY Giga Fiber Pvt. Ltd.	Andhra Pradesh	100.00	100.00	100.00	0.00	100.00	100.00	99.00	99.50	0	0	85.00	90.00	99.68	0.50	30	248	0
31	Indinet Service Pvt. Ltd	All India	100.00	91.67	100.00	0.00	100.00	100.00	61.63	81.31	0	0	86.90	92.67	99.44	0.33	54	259	570
32	Instanet Technologies Pvt. Ltd.	Maharashtra	100.00	98.97	100.00	0.24	100.00	100.00	75.16	86.75	0	0	63.00	90.00	100.00	0.00	4	255	0
33	Intech Online Pvt. Ltd.	Maharashtra	100.00	90.86	99.47	1.07	100.00	100.00	94.54	94.54	0	0	39.90	85.66	99.86	0.07	15	89	451
		Mumbai	100.00	92.97	99.65	0.77	100.00	100.00	94.19	94.19	0	0	38.59	85.00	99.86	0.04	1	76	453
34	Intermedia Cable Communication Pvt Ltd	Maharashtra	100.00	98.60	99.80	0.00	100.00	100.00	96.50	99.80	0	0	84.33	90.00	99.86	0.00	67	300	0
35	Ishan Netsol Pvt Ltd	Gujarat	100.00	91.15	100.00	0.00	100.00	100.00	65.01	82.60	0	0	63.37	91.00	98.64	0.00	100	225	0
36	Joister Infoserve Pvt. Ltd.	Maharashtra	100.00	94.00	100.00	0.00	100.00	100.00	82.00	90.00	0	0	88.00	99.00	100.00	0.98	1	225	265
		Mumbai	100.00	95.00	100.00	0.00	100.00	100.00	86.00	90.00	0	0	89.00	99.00	100.00	0.98	1	47	265
37	Juwariyah Networks Private Limited	Maharashtra	100.00	98.00	100.00	0.00	100.00	100.00	83.67	87.00	0	0	83.00	99.00	100.00	0.00	1	47	80
		Mumbai	100.00	98.00	100.00	0.00	100.00	100.00	83.67	87.00	0	0	78.00	99.00	100.00	0.00	1	47	80
38	K NET Solutions Private Limited	Tamilnadu	100.00	93.22	99.54	0.00	100.00	100.00	82.11	83.71	0	0	0.00	100.00	99.91	0.00	27	221	0
39	Kerala Vision Broadband Ltd.	Kerala	100.00	92.00	99.00	0.00	100.00	100.00	68.00	83.33	0	0	60.00	99.00	99.62	0.00	16	261	0
40	Kings Broadband Pvt. Ltd	All India	100.00	97.30	100.00	0.00	100.00	100.00	80.00	96.66	0	0	80.00	95.60	99.77	0.10	30	310	650
41	Limras Eronet Broadband Service Pvt Ltd	All India	100.00	99.00	100.00	0.01	100.00	100.00	90.00	100.00	0	0	0.00	98.00	99.40	0.01	30	259	0
42	Mahanagar Telephone Nigam Ltd.	All India	87.74	69.13	82.71	0.00	100.00	64.51	95.17	98.46	0	0	57.30	89.78	99.53	0.50	35	300	0
43	Meghbela Cable & Broadband Services (P) Ltd	All India	100.00	95.00	100.00	1.63	100.00	100.00	95.00	100.00	0	0	74.00	95.00	100.00	0.00	60	150	0
44	Microscan Infocommtech Private Limited	Maharashtra	100.00	97.85	100.00	0.00	100.00	100.00	100.00	100.00	0	0	10.00	100.00	100.00	0.49	4	225	0
		Mumbai	100.00	95.15	99.60	0.00	100.00	100.00	100.00	100.00	0	0	18.00	100.00	100.00	0.53	4	228	0
45	Multicraft Digital Technologies Private Limited	All India	100.00	97.17	100.00	0.00	100.00	100.00	99.00	99.00	0	0	88.17	91.00	100.00	0.00	119	0	0
46	Net 9 Fibernet Pvt. Ltd. (formerly Net 9 Online Hathway Pvt. Ltd.)	Mumbai	100.00	97.72	100.00	0.00	100.00	100.00	100.00	100.00	0	0	87.94	90.00	99.68	0.31	94	303	0
47	Netplus Broadband Services Pvt. Ltd	All India	100.00	100.00	100.00	1.29	100.00	100.00	95.04	97.66	0	0	77.87	95.63	100.00	0.10	45	196	0
48	Nuron Networks Private Limited	Karnataka	100.00	91.56	99.00	0.00	100.00	100.00	75.00	93.00	0	0	0.00	90.00	100.00	0.10	27	29	59
49	ONEOTT ENTERTAINMENT LTD	All India	100.00	97.00	99.00	1.46	100.00	100.00	95.00	95.00	0	0	73.98	100.00	99.91	0.50	1	227	0
50	Quadrant Televentures Ltd.	Punjab	100.00	95.30	99.06	0.34	100.00	100.00	91.33	94.05	0	0	73.73	100.00	100.00	0.00	80	300	0
51	Quest Consultancy Pvt. Ltd.	Gujarat	100.00	95.00	100.00	0.08	100.00	100.00	89.00	99.00	0	0	82.40	99.00	98.66	0.30	11	255	630
52	Radinet Info Solutions Pvt Ltd	Rajasthan	100.00	95.12	99.88	0.00	100.00	100.00	98.74	98.97	0	0	74.24	90.00	99.58	0.00	23	300	0
53	RaiTel Corporation of India Ltd.	All India	100.00	98.00	100.00	0.00	100.00	100.00	87.67	100.00	0	0	45.20	100.00	99.86	0.87	90	326	0
54	Rajesh Digital & Datacom Pvt. Ltd.	Mumbai	100.00	98.00	100.00	0.00	100.00	100.00	97.00	97.00	0	0	87.00	83.00	99.86	0.00	46	250	500
55	Readylink Internet Services Limited	Tamilnadu	100.00	99.00	100.00	0.01	100.00	100.00	83.00	91.00	0	0	73.00	82.00	100.00	0.00	23	85	0

Annexure 4.3 (Contd.)

		Andhra Pradesh	100.00	97.52	99.30	0.00	100.00	100.00	84.46	87.74	-	NA	NA	100.00	100.00	0.11	8	NA	NA
		Assam	100.00	97.28	99.11	0.00	100.00	100.00	85.27	88.52	NA	NA	NA	100.00	100.00	NA	NA	NA	NA
		Bihar	100.00	97.67	99.31	0.00	100.00	100.00	85.23	88.55	NA	NA	NA	100.00	99.99	NA	NA	NA	NA
		Delhi	100.00	97.71	99.36	0.00	100.00	100.00	85.85	89.01	-	-	32.68	100.00	99.99	0.01	19	NA	NA
		Gujarat	100.00	97.66	99.28	0.00	100.00	100.00	85.00	88.50	-	NA	NA	100.00	100.00	0.00	24	NA	NA
		Haryana	100.00	99.35	99.86	0.00	100.00	100.00	85.68	88.84	NA	NA	NA	100.00	100.00	NA	NA	NA	NA
		Himachal Pradesh	100.00	99.21	99.70	0.00	100.00	100.00	85.86	88.84	NA	NA	NA	100.00	99.99	NA	NA	NA	NA
		Jammu & Kashmir	100.00	95.80	99.37	0.00	100.00	100.00	90.61	93.07	NA	NA	NA	100.00	100.00	NA	NA	NA	NA
		Karnataka	100.00	96.44	99.28	0.00	100.00	100.00	85.41	88.43	-	NA	NA	100.00	100.00	0.02	15	NA	NA
56	Reliance Jio Infocomm Ltd.	Kerala	100.00	98.93	99.75	0.00	100.00	100.00	87.31	90.52	NA	NA	NA	100.00	100.00	NA	NA	NA	NA
		Kolkata	100.00	98.63	99.58	0.00	100.00	100.00	84.65	88.03	-	NA	NA	100.00	100.00	0.05	32	NA	NA
		Madhya Pradesh	100.00	97.52	99.29	0.00	100.00	100.00	83.02	86.82	NA	NA	NA	100.00	99.99	NA	NA	NA	NA
		Maharashtra	100.00	95.19	99.02	0.00	100.00	100.00	85.08	88.39	-	NA	NA	100.00	99.99	0.11	18	NA	NA
		Mumbai	100.00	98.13	99.35	0.00	100.00	100.00	86.89	89.83	-	-	49.00	100.00	99.96	0.02	10	101	NA
		North East	100.00	98.76	99.75	0.00	100.00	100.00	85.92	89.36	NA	NA	NA	100.00	99.95	NA	NA	NA	NA
		Orissa	100.00	99.44	99.91	0.00	100.00	100.00	85.47	88.92	NA	NA	NA	100.00	100.00	NA	NA	NA	NA
		Punjab	100.00	98.91	99.73	0.00	100.00	100.00	88.82	91.45	NA	NA	NA	100.00	100.00	NA	NA	NA	NA
		Rajasthan	100.00	98.27	99.50	0.00	100.00	100.00	85.15	88.53	NA	NA	NA	100.00	100.00	NA	NA	NA	NA
		Tamilnadu	100.00	98.98	99.76	0.00	100.00	100.00	86.07	89.22	-	-	57.00	100.00	100.00	0.01	7	35	NA
		Uttar Pradesh - East	100.00	99.14	99.74	0.00	100.00	100.00	85.27	88.55	-	NA	NA	100.00	100.00	0.07	33	NA	NA
		Uttar Pradesh - West	100.00	97.63	99.39	0.00	100.00	100.00	86.15	89.40	NA	NA	NA	100.00	99.99	NA	NA	NA	NA
		West Bengal	100.00	99.06	99.81	0.00	100.00	100.00	85.12	88.30	NA	NA	NA	100.00	100.00	NA	NA	NA	NA
		57	Ri Networks Pvt Ltd	All India	100.00	94.73	99.15	0.00	100.00	100.00	92.38	95.71	0	0	77.78	100.00	100.00	0.50	50
58	Shree Omkar Infocom Pvt. Ltd.	Maharashtra	100.00	98.00	100.00	0.00	100.00	100.00	90.00	95.00	0	0	60.00	97.00	100.00	0.50	2	125	600
59	Shyam Spectra Private Limited	All India	100.00	98.64	99.64	0.47	100.00	100.00	79.32	81.58	0	0	18.75	97.33	99.65	0.00	9	187	0
60	Signum Digital Networks Pvt. Ltd	Andhra Pradesh	100.00	92.33	99.00	0.00	100.00	100.00	72.33	86.00	0	0	62.00	99.00	98.64	0.53	8	256	328
61	Sikka Broadband(P) Ltd.	Uttar Pradesh (East)	100.00	91.00	99.26	0.00	100.00	100.00	88.00	98.70	0	0	80.00	86.60	100.00	0.10	10	290	400
62	SITI Broadband Services Pvt. Ltd.	All India	100.00	90.44	99.19	0.00	100.00	100.00	95.33	100.00	0	0	72.77	95.00	99.05	0.00	3	137	307
63	Spiderlink Networks Pvt. Ltd.	Rajasthan	100.00	95.50	99.73	0.00	100.00	100.00	73.85	83.98	0	0	77.00	97.83	99.31	0.00	50	240	0
64	Stampede Communications Pvt. Ltd.	Kerala	100.00	95.00	100.00	0.00	100.00	100.00	80.00	100.00	0	0	85.00	90.00	99.91	0.00	25	250	750
65	Tachyon Communications Private Limited	Uttar Pradesh (East)	100.00	98.00	100.00	1.97	100.00	100.00	88.00	94.00	0	0	74.00	99.00	100.00	0.00	35	70	0
66	Tata Play Broadband Private Limited (formerly Tata Sky Broadband Pvt.Ltd.)	All India	100.00	92.90	99.47	0.00	100.00	100.00	88.17	91.13	0	0	38.84	100.00	99.97	0.00	1	0	0
67	Tata Teleservices Limited	Andhra Pradesh	100.00	93.91	99.09	0.02	100.00	100.00	99.00	99.00	0	0	50.24	88.67	99.96	0.00	51	60	0
		Bihar	100.00	100.00	100.00	0.00	100.00	100.00	99.00	100.00	0	0	50.24	94.03	99.99	0.00	64	59	0
		Delhi	100.00	94.19	99.59	0.00	100.00	100.00	100.00	99.00	0	0	50.24	86.30	99.95	0.00	57	59	0
		Gujarat	100.00	91.97	99.27	0.00	100.00	100.00	100.00	100.00	0	0	50.24	95.67	99.76	0.00	36	62	0
		Karnataka	100.00	93.39	97.25	0.28	100.00	100.00	100.00	100.00	0	0	50.24	93.00	99.27	0.00	94	64	0
		Kerala	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0	0	50.24	98.67	98.01	0.00	64	63	0
		Kolkata	100.00	97.14	99.05	0.00	100.00	100.00	100.00	100.00	0	0	50.24	85.23	99.86	0.00	38	58	0
		Madhya Pradesh	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0	0	50.24	100.00	100.00	0.00	0	0	0
		Punjab	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0	0	50.24	99.40	100.00	0.00	61	60	0
		Rajasthan	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0	0	50.24	92.59	99.39	0.00	70	62	0
Tamilnadu	100.00	94.31	99.33	0.21	100.00	100.00	100.00	100.00	0	0	50.24	98.67	99.56	0.00	53	61	0		
68	Tata Teleservices(Maharashtra) Ltd.	Maharashtra	100.00	92.55	99.27	0.01	100.00	100.00	99.00	99.00	0	0	68.00	98.33	99.85	0.00	19	32	0
		Mumbai	100.00	92.19	97.21	0.11	100.00	100.00	99.00	99.00	0	0	68.00	100.00	99.81	0.00	14	29	0
69	Tikona Inffinet Pvt Ltd	All India	100.00	94.54	99.69	0.76	100.00	100.00	63.20	81.20	0	0	87.16	95.45	99.95	0.00	3	0	0
70	United Telecoms Ltd.	Maharashtra	100.00	92.60	99.00	0.00	100.00	100.00	82.00	91.00	0	0	79.98	100.00	100.00	0.00	19	128	0
		Kolkata	100.00	98.05	100.00	0.00	100.00	100.00	94.73	99.07	0	0	36.62	100.00	100.00	0.30	12	0	0
71	Wish Net Pvt. Ltd.	West Bengal	100.00	98.50	100.00	0.00	100.00	100.00	94.30	96.18	0	0	36.62	100.00	100.00	0.09	19	0	0
		Karnataka	100.00	91.76	99.30	0.00	100.00	100.00	85.55	93.11	0	0	62.46	84.00	99.77	0.01	41	293	0
72	Yashash Cable Network Pvt Ltd	Karnataka	100.00	91.76	99.30	0.00	100.00	100.00	85.55	93.11	0	0	62.46	84.00	99.77	0.01	41	293	0
73	You Broadband India Ltd.	All India	100.00	95.53	99.06	0.00	100.00	100.00	92.59	95.59	0	0	76.99	86.84	99.04	0.00	9	277	0

Annexure 5.1: List of pay channels, offered by broadcasters to subscribers as reported to TRAI (New Regulatory Framework) - as on 31st March, 2022

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

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

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

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

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

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

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

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

S.No	Name of the broadcaster	Sl. No	Name of the channel	Declared as SD or HD
36	Viacom 18 Media Private Limited	245	Colors	SD
		246	Comedy Central (HD)	HD
		247	MTV	SD
		248	NICK	SD
		249	NICK JR	SD
		250	SONIC	SD
		251	VH 1 (HD Distribution)	HD
		252	Colors Infinity HD	HD
		253	Colors Infinity	SD
		254	Colors HD	HD
		255	NICKS HD+	HD
		256	Colors Cineplex	SD
		257	MTV Beats	SD
		258	Colors Kannada HD	HD
		259	Colors Marathi HD	HD
		260	Colors Bangla HD	HD
		261	Colors Super	SD
		262	Colors Bangla	SD
		263	Colors Gujarati	SD
		264	Colors Kannada	SD
		265	Colors Marathi	SD
		266	Colors Oriya	SD
		267	MTV Beats HD	HD
		268	Colors Tamil	SD
		269	Colors Cineplex HD	HD
		270	VH 1	SD
		271	Colors Tamil HD	HD
272	MTV HD+	HD		
273	Colors Rishtey	SD		
274	Colors Kannada Cinema	SD		
275	Colors Gujarati Cinema	SD		
276	Comedy Central	SD		

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

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

S.No	Name of the broadcaster	Sl. No	Name of the channel	Declared as SD or HD
		338	Zee Hindustan	SD
		339	Zee Bihar Jharkhand	SD
		340	Zee News	SD
		341	Zee Rajasthan News	SD
40	Zoom Entertainment Network Limited	342	Movies Now	SD
41	Sidharth Broadcasting Private Limited	343	Sidharth TV	SD
42	Sarthak Music Private Limited	344	Sidharth Bhakti	SD
		345	Sidharth Gold	SD

List of Major MSOs / HITS Operators

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

- 6. M/s NXT Digital Limited (HITS)**
IN Centre, 49/50 MIDC
12th Road, Andheri
MUMBAI-400093 (Maharashtra)
Ph: 022-28208585
Website : 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
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
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
Toll Free No. 18004195755
- 10. M/s Thamizhaga Cable TV Communication Pvt. Ltd.**
Old No. 150, New No. 48, Sami Naicken Street,
Chinthadripet, Chennai-600002 (T.N.)
Ph: 044-49272222
Website : www.tccl.co.in
Toll Free No. 1800-102-9845
- 11. M/s Asianet Digital Network Pvt. Network**
2A, 2nd Floor, Leela Infopark
Technopark, Kazahakuttom,
Thiruvananthapuram-695581 (Kerala)
Ph: 0471-2700995
Fax : 0471-2527878
Website : 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
Toll Free No. 1800-102-0728
- 13. M/s V.K. Digital Network Pvt. Ltd.**
3-A-29, Willow Crest,
6th Main Road, R.A. Puram,
Chennai-600029 (T.N.)
Ph: 044-4242 8282
Website : www.vkdigital.co.in
Toll Free No. 18004199908

List of Pay DTH Operators

- 1. M/s. Tata Play Limited**
Tata Communications Complex,
Mandi Road, PO Chattarpur,
New Delhi – 110 074
Tel: 011-6616 3000
Fax-022-6616 3030
Website : www.tatasky.com
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
- 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
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
Toll Free No. 18001036065

List of Pay IPTV Operators

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

Annexure 5.5: List of 113 existing cities with operational FM Radio Channels in India, as on 31st March, 2022

S.No.	City	Category	Channels
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	Bareily	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

S.No.	City	Category	Channels
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

S.No.	City	Category	Channels
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

S.No.	City	Category	Channels
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
	Total		386

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