



Telecom Regulatory Authority of India

The Indian Telecom Services Performance Indicators

April – June, 2022

New Delhi, India

23rd November, 2022

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Snapshot

(Data as on Q.E. 30th June, 2022)

Telecom Subscribers (Wireless+Wireline)	
Total Subscribers	1,172.96 Million
% change over the previous quarter	0.52%
Urban Subscribers	649.09 Million
Rural Subscribers	523.87 Million
Market share of Private Operators	89.38%
Market share of PSU Operators	10.62%
Tele-density	85.13%
Urban Tele-density	134.72%
Rural Tele-density	58.46%
Wireless Subscribers	
Total Wireless Subscribers	1,147.39 Million
% change over the previous quarter	0.46%
Urban Subscribers	625.49 Million
Rural Subscribers	521.90 Million
Market share of Private Operators	90%
Market share of PSU Operators	10%
Tele-density	83.27%
Urban Tele-density	129.82%
Rural Tele-density	58.24%
Total Wireless Data Usage during the quarter	37,626 PB
Number of Public Mobile Radio Trunk Services (PMRTS)	66,048
Number of Very Small Aperture Terminals (VSAT)	2,76,971
Wireline Subscribers	
Total Wireline Subscribers	25.57 Million
% change over the previous quarter	2.92%
Urban Subscribers	23.60 Million
Rural Subscribers	1.97 Million
Market share of PSU Operators	38.47%
Market share of Private Operators	61.53%
Tele-density	1.86%
Rural Tele-density	0.22%
Urban Tele-density	4.90%
No. of Village Public Telephones (VPT)	68,606
No. of Public Call Office (PCO)	61,427

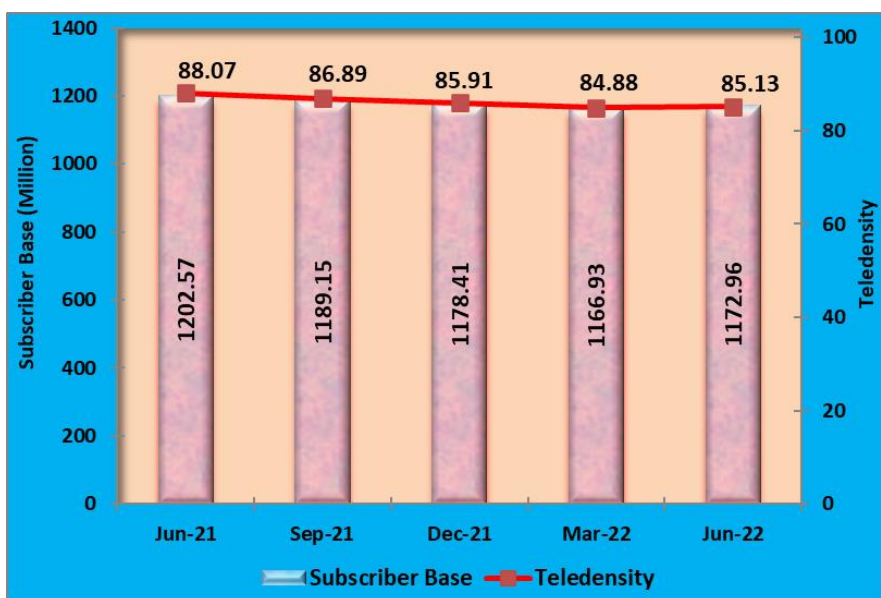
Telecom Financial Data	
Gross Revenue (GR) during the quarter	Rs.76,408 Crore
% change in GR over the previous quarter	-0.01%
Adjusted Gross Revenue (AGR) during the quarter	Rs.60,530 Crore
% change in AGR over the previous quarter	2.79%
Share of Public sector undertakings in Access AGR	4.88%
Internet/Broadband Subscribers	
Total Internet Subscribers	836.86 Million
% change over previous quarter	1.45%
Narrowband subscribers	35.92 Million
Broadband subscribers	800.94 Million
Wired Internet Subscribers	28.73 Million
Wireless Internet Subscribers	808.13 Million
Urban Internet Subscribers	497.56 Million
Rural Internet Subscribers	339.30 Million
Total Internet Subscribers per 100 population	60.73
Urban Internet Subscribers per 100 population	103.27
Rural Internet Subscribers per 100 population	37.86
No. of Public Wi-Fi Hotspots	1,00,206
Aggregate Data Consumed (GB)	1,42,16,743
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	892
Number of Pay TV Channels as reported by broadcasters	347
Number of private FM Radio Stations (excluding All India Radio)	388
Number of total active subscribers with pay DTH operators	67.04 Million
Number of Operational Community Radio Stations	366
Number of pay DTH Operators	4
Revenue & Usage Parameters	
Monthly ARPU of Wireless Service	Rs.133.55
Minutes of Usage (MOU) per subscriber per month - Wireless Service	914 Minutes
Total Outgoing Minutes of Usage for Internet Telephony	98.31 Million
Wireless Data Usage	
Average Wireless Data Usage per wireless data subscriber per month	16.40 GB
Average revenue realization per subscriber per GB wireless data during the quarter	Rs.10.29

* For ARPU explanation please refer to footnote on Page 52

Executive Summary

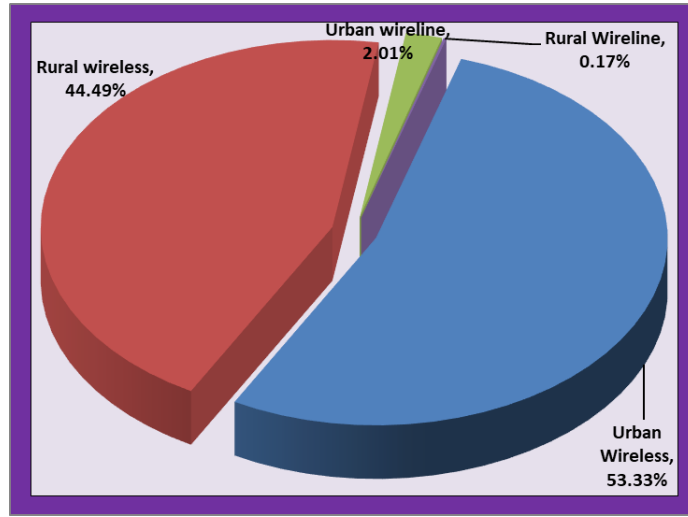
1. The number of telephone subscribers in India increased from 1,166.93 million at the end of Mar-22 to 1,172.96 million at the end of Jun-22, registering a growth rate of 0.52% over the previous quarter. This reflects Year-On-Year (Y-O-Y) decline rate of 2.46% over the same quarter of the last year. The overall Tele-density in India increased from 84.88% as in QE Mar-22 to 85.13% as in QE Jun-22.

Trends in Telephone subscribers and Tele-density in India



2. Telephone subscribers in Urban areas increased from 647.11 million at the end of Mar-22 to 649.09 million at the end of Jun-22 however Urban Tele-density decreased from 134.94% to 134.72% during the same period.
3. Rural telephone subscribers increased from 519.82 million at the end of Mar-22 to 523.27 million at the end of Jun-22 and Rural Tele-density also increased from 58.07% to 58.46% during the same period.
4. Out of the total subscription, the share of Rural subscription increased from 44.55% at the end of Mar-22 to 44.66% at the end of Jun-22.

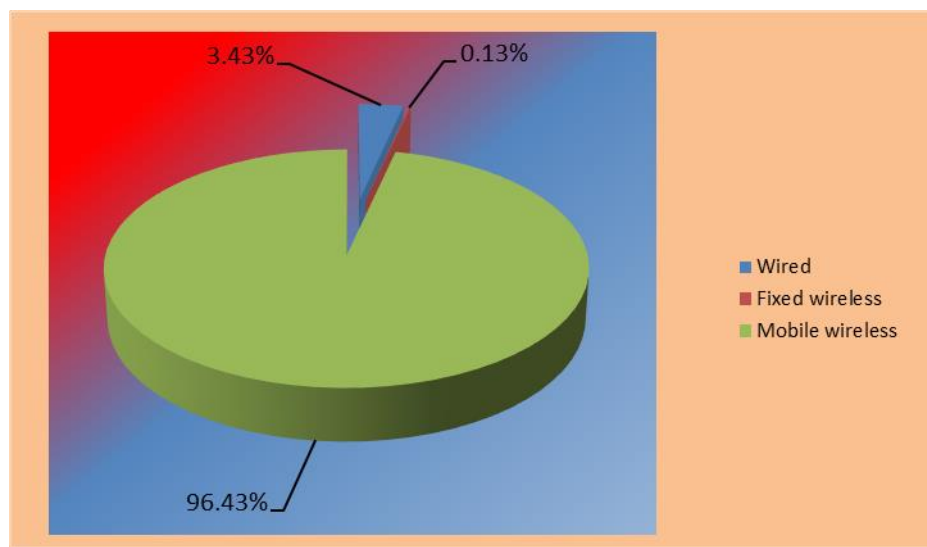
Composition of Telephone Subscribers



5. With a net increase of 5.30 million subscribers during the quarter, the total wireless subscriber base increased from 1,142.09 million at the end of Mar-22 to 1,147.39 million at the end of Jun-22, registering a growth rate of 0.46% over the previous quarter. On Y-O-Y basis, wireless subscriptions decreased at the rate of 2.83% during the year.
6. Wireless Tele-density increased from 83.07% at the end of Mar-22 to 83.27% at the end of Jun-22 with quarterly growth rate of 0.24%.
7. Wireline subscribers increased from 24.84 million at the end of Mar-22 to 25.57 million at the end of Jun-22 with a quarterly growth rate of 2.92% and, on Y-O-Y basis, wireline subscriptions also increased by 17.62% at the end of QE Jun-22.
8. Wireline Tele-density increased from 1.81% at the end of Mar-22 to 1.86% at the end of Jun-22 with quarterly growth rate of 2.69%.

9. Total number of Internet¹ subscribers increased from 824.89 million at the end of Mar-22 to 836.86 million at the end of Jun-22, registering a quarterly growth rate of 1.45%. Out of 836.86 million internet subscribers, number of Wired Internet subscribers are 28.73 million and number of Wireless Internet subscribers are 808.13 million.

Composition of internet subscription



10. The Internet subscriber base is comprised of Broadband² Internet subscriber base of 800.94 million and Narrowband³ Internet subscriber base of 35.92 million.
11. The broadband Internet subscriber base increased by 1.60% from 788.30 million at the end of Mar-22 to 800.94 million at the end of Jun-22. The narrowband Internet subscriber base declined by 1.84% from 36.59 million at the end of Mar-22 to 35.92 million at the end of Jun-22.

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)

12. Monthly Average Revenue per User (ARPU)⁴ for wireless service increased by 5.02%, from Rs.127.17 in QE Mar-22 to Rs.133.55 in QE Jun-22. On Y-O-Y basis, monthly ARPU for wireless service increased by 27.61% in this quarter.
13. Prepaid ARPU per month increased from Rs.121.91 in QE Mar-22 to Rs.128.61 in QE Jun-22, however, Postpaid ARPU per month decreased from Rs.200.56 in QE Mar-22 to Rs.197.55 in QE Jun-22.
14. On an all-India average, the overall MOU per subscriber per month decreased by 4.38% from 955 in Q.E. March - 2022 to 914 in Q.E. June- 2022.
15. Prepaid MOU per subscriber per month decreased from 972 in QE Mar-22 to 936 in QE Jun-22. Postpaid MOU per subscriber per month also decreased from 721 in QE Mar-22 to 621 in QE Jun-22.
16. Gross Revenue⁵ (GR) and Adjusted Gross Revenue⁶ (AGR) of Telecom Service Sector for the Q.E. June-22 has been Rs.76,408/- Crore and Rs.60,530/- Crore respectively. GR decreased by 0.01% and AGR increased by 2.79% in Q.E. Jun-22, as compared to previous quarter.

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

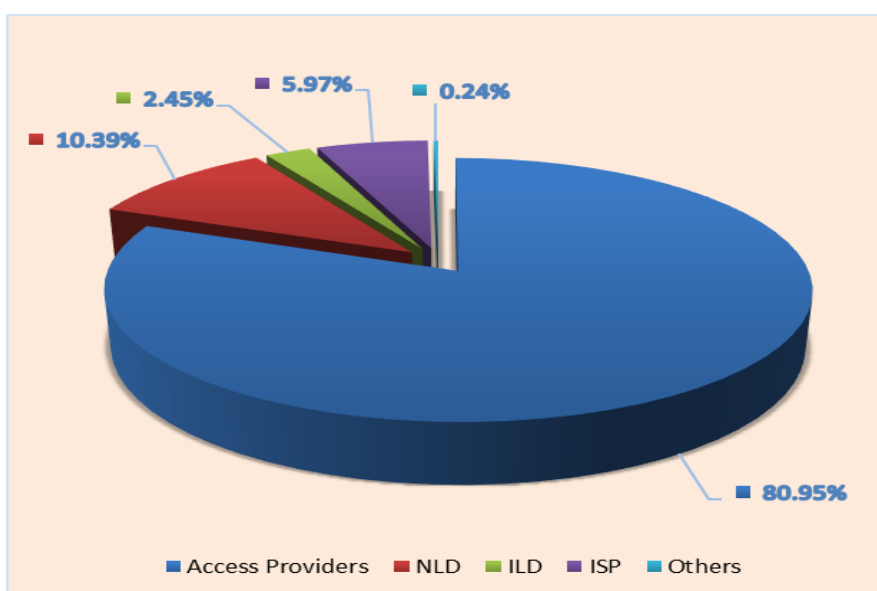
⁵ Gross Revenue is inclusive of installation charges, late fees, sale proceeds of handsets (or any other terminal equipment etc.), revenue on account of interest, dividend, value added services, supplementary services, access or interconnection charges, roaming charges, revenue from permissible sharing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

⁶ 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

17. The Y-O-Y growth in GR and AGR in Q.E. Jun-22 over the same quarter in last year has been 17.91% and 17.91% respectively.
18. Pass-through charges decreased from Rs.13,568 Crore in QE Mar-22 to Rs.13,415 Crore in QE Jun-22 with quarterly decline rate of 1.12%. The Y-O-Y decline rate of 0.38% has been recorded in pass-through charges for QE Jun-22.
19. The License Fee⁷ increased from Rs. Rs.4,712 Crore for the QE Mar-22 to Rs.4,844 Crore for the QE Jun-22. The quarterly and the Y-O-Y growth rates of license fee are 2.79% and 18.05% respectively in this quarter.

Service-wise composition of Adjusted Gross Revenue



20. Access services contributed 80.95% of the total Adjusted Gross Revenue of telecom services. In Access services, Gross Revenue (GR), Adjusted Gross Revenue (AGR), License Fee, Spectrum Usage Charges (SUC)⁸ and Pass Through Charges increased by

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

⁸ 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)

1.67%, 5.55%, 5.53%, 3.82% and -3.41% respectively in QE Jun-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
❖ %age of calls answered by the operators (voice to voice) within 90 seconds \geq 95%	❖ No case of deterioration of any parameter observed in QE June 2022

22. The performance of Cellular Mobile service providers in terms of Quality of Service performance in all the parameters remain same i.e. neither performance has improved nor deteriorated in this quarter, as compared to the previous quarter.
23. A total of approximately 892 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 879 permitted satellite TV channels which are available for downlinking in India, there are 347 satellite pay TV channels as on 30th June 2022. Out of 347 pay channels, 249 are SD satellite pay TV channels and 98 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 30th June 2022, there were 4 pay DTH service providers in the country.

26. Pay DTH has attained total active subscriber base of around 67.04 million in QE 30th June 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 30th June 2022, there are 388 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 30th June 2022 in respect of 388 private FM Radio channels is Rs 345.12 crore as against Rs 362.63 crore in respect of 386 private FM Radio channels for the previous quarter i.e. 31st March 2022.
29. As on 30th June 2022, 366 Community Radio stations are operational.

Trends at a Glance

A. Access Service (Wireline + Wireless)									
	QE Jun 2021	QE Sep 2021	QE Dec 2021	QE Mar 2022	QE Jun 2022	%age change over Jun-2021	%age change over Sep-2021	%age change over Dec-2021	%age change over Mar-2022
						(12 months)	(9 months)	(6 months)	(3 months)
1) Subscriber Base (in million)									
Wireline	21.74	23.13	23.79	24.84	25.57	17.62%	10.52%	7.47%	2.92%
Wireless	1180.83	1166.02	1154.62	1142.09	1147.39	-2.83%	-1.60%	-0.63%	0.46%
Total	1202.57	1189.15	1178.41	1166.93	1172.96	-2.46%	-1.36%	-0.46%	0.52%
Rural	536.47	530.06	523.21	519.82	523.87	-2.35%	-1.17%	0.13%	0.78%
Urban	666.10	659.09	655.20	647.11	649.09	-2.55%	-1.52%	-0.93%	0.30%
2) Tele-density									
Wireline	1.59	1.69	1.73	1.81	1.86	16.56%	9.77%	6.99%	2.69%
Wireless	86.48	85.20	84.17	83.07	83.27	-3.71%	-2.26%	-1.07%	0.24%
Total	88.07	86.89	85.91	84.88	85.13	-3.34%	-2.03%	-0.91%	0.29%
Rural	60.10	59.33	58.50	58.07	58.46	-2.73%	-1.46%	-0.07%	0.68%
Urban	140.86	138.72	137.26	134.94	134.72	-4.36%	-2.89%	-1.85%	-0.16%
3) Service Provider wise Subscribers Base (in Million) (wireless+wireline)									
Bharti Airtel	357.05	359.77	361.35	366.18	369.00	3.35%	2.57%	2.12%	0.77%
Vodafone Idea	273.88	270.56	266.05	261.35	257.32	-6.05%	-4.89%	-3.28%	-1.54%
Reliance Jio	440.59	429.48	421.05	410.17	419.99	-4.68%	-2.21%	-0.25%	2.39%
BSNL	122.88	121.28	121.95	121.25	118.73	-3.38%	-2.11%	-2.65%	-2.08%
MTNL	6.15	6.07	6.01	5.94	5.87	-4.53%	-3.34%	-2.34%	-1.19%
Tata Tele.	1.61	1.60	1.60	1.60	1.59	-1.37%	-0.60%	-0.69%	-0.91%
Reliance Com.	0.21	0.20	0.19	0.18	0.17	-17.05%	-12.09%	-7.26%	-2.73%
Quadrant	0.21	0.20	0.21	0.27	0.30	45.33%	50.04%	40.94%	11.86%
Total	1202.57	1189.15	1178.41	1166.93	1172.96	-2.46%	-1.36%	-0.46%	0.52%

B. Internet Services									
	QE Jun 2021	QE Sep 2021	QE Dec 2021	QE Mar 2022	QE Jun 2022	%age change over Jun-2021 (12 months)	%age change over Sep-2021 (9 months)	%age change over Dec-2021 (6 months)	%age change over Mar-2022 (3 months)
1) Subscriber's Base (in million)									
A. Wired Internet Subscribers	23.58	24.47	26.58	27.27	28.73	21.86%	17.41%	8.09%	5.33%
B. Wireless Internet Subscribers	810.13	809.82	802.72	797.61	808.13	-0.25%	-0.21%	0.67%	1.32%
i. Mobile Wireless (Mobile & Dongle)	809.48	808.54	801.58	796.43	807.02	-0.30%	-0.19%	0.68%	1.33%
ii. Fixed Wireless (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.66	1.28	1.14	1.18	1.11	68.99%	-13.37%	-3.04%	-6.19%
Total Internet Subscribers	833.71	834.29	829.30	824.89	836.86	0.38%	0.31%	0.91%	1.45%
2) No. of Internet Subs per 100 Population	61.06	60.96	60.46	60.00	60.73	-0.53%	-0.37%	0.46%	1.22%
C. Usage and Revenue for Wireless Services									
Traffic (MOU) (minutes of uses/subscriber/month)	813	827	854	955	914	12.39%	10.48%	6.92%	-4.38%
ARPU (Rs./sub/month)	105	108	114.16	127.17	133.55	27.61%	23.48%	16.98%	5.02%
D. Telecom Financial Data									
	QE Jun 2021	QE Sep 2021	QE Dec 2021	QE Mar 2022	QE Jun 2022	%age change over Jun-2021 (12 months)	%age change over Sep-2021 (9 months)	%age change over Dec-2021 (6 months)	%age change over Mar-2022 (3 months)
1. Telecom Sector									
i) Gross Revenue (Rs.in Crores)	64801	67300	69695	76420	76408	17.91%	13.53%	9.63%	-0.01%
ii) Adjusted Gross Revenue (Rs. in Crores)	51335	53510	55151	58886	60530	17.91%	13.12%	9.75%	2.79%
2. Access Services									
Adjusted Gross Revenue (Rs. in Crores)	40840	42422	42930	46421	48999	19.98%	15.51%	14.14%	5.55%

Introduction

This Report presents the Key Parameters and growth trends for the Telecom Services in India for the quarter ending 30th June, 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, Advisor (F&EA), TRAI may be contacted on Tel. +91-23234367 and e-mail: advfea2@tra.gov.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 increased from 1,166.93 million at the end of March-22 to 1,172.96 million at the end of June-22, registering a growth rate of 0.52% over the previous quarter. This reflects year-on-year (Y-O-Y) decline rate of 2.46% over the same quarter of last year. The overall Tele-density in India increased from 84.88% as on 31st March, 2022 to 85.13% as on 30th June, 2022 with quarterly growth rate of 0.29%.

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

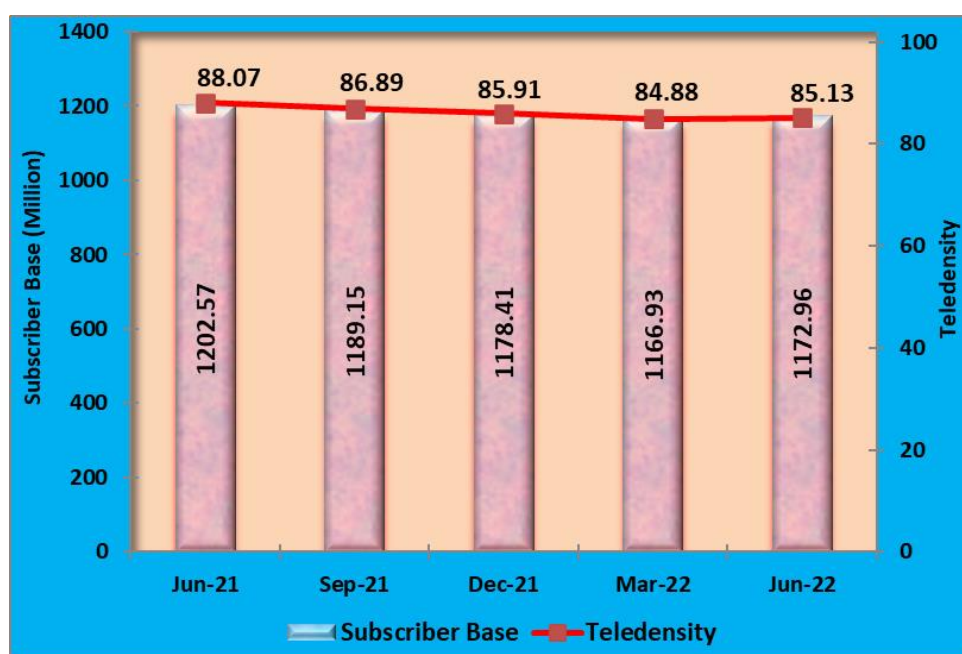
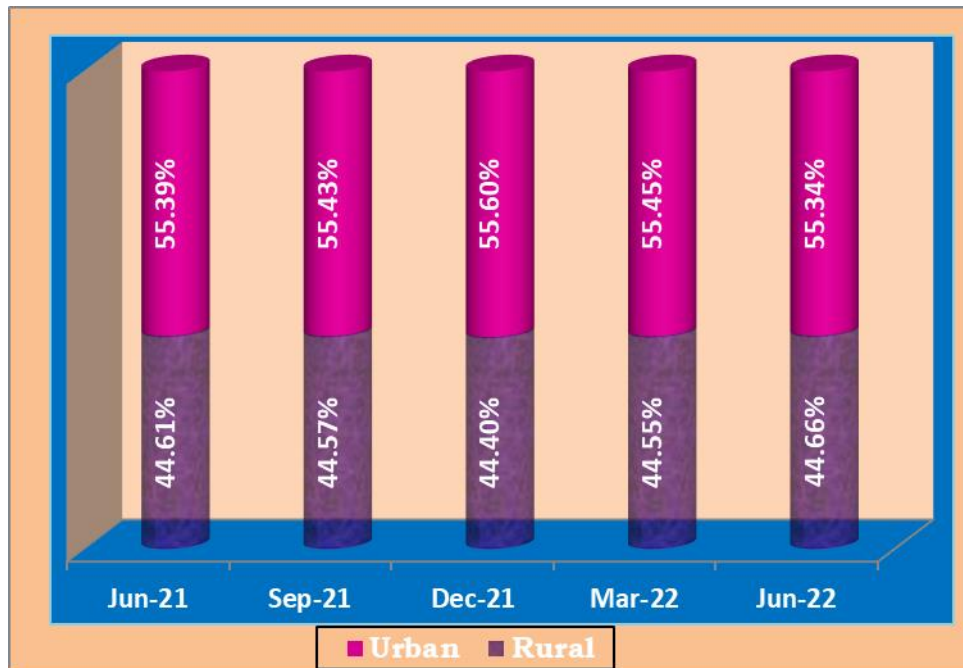


Table 1.1: Subscriber Base & Tele-density - Rural & Urban

Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
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
Jun-22	523.87	649.09	58.46	134.72

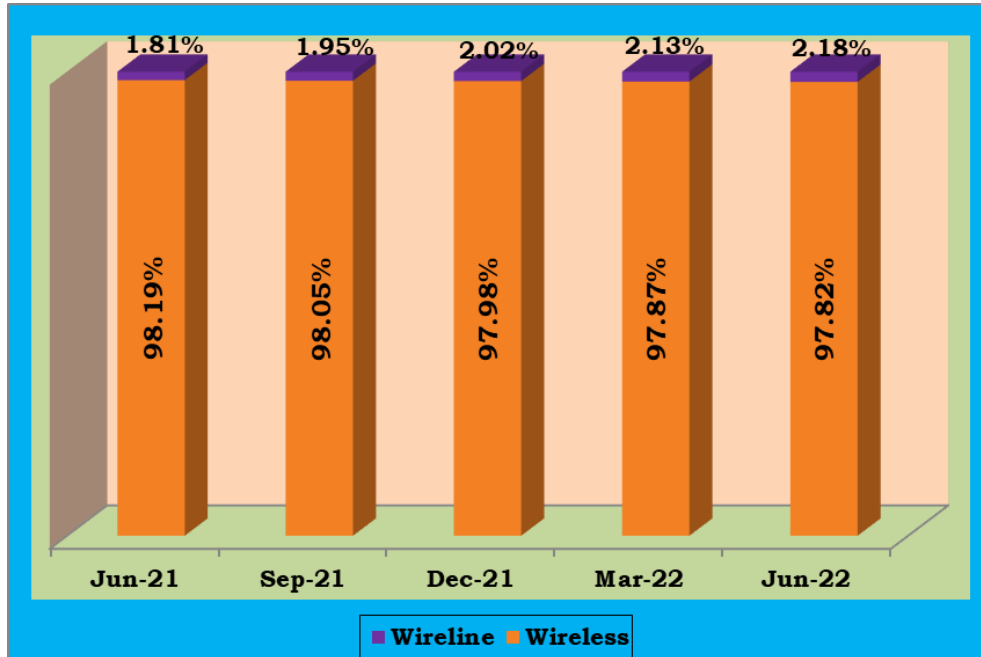
- 1.2 Telephone subscription in Urban areas increased from 647.11 million at the end of March-22 to 649.09 million at the end of Jun-22 however, Urban Tele-density decreased from 134.94% to 134.72% at the end of the quarter.
- 1.3 Rural telephone subscription increased from 519.82 million at the end of March-22 to 523.87 million at the end of June-22 and Rural Tele-density also increased from 58.07% to 58.46% at the end of the quarter.
- 1.4 The Y-O-Y decline rates of Urban and Rural telephone subscriptions from June-21 to June-22 are 2.55% and 2.35% respectively. The Y-O-Y decline rates of Urban and Rural Tele-density from June-21 to June-22 are 4.36% and 2.73% respectively.

Chart 1.2: Market Share - Rural & Urban Subscribers



- 1.5 Share of subscriptions of rural areas in the total telephone subscriptions increased from 44.55% at the end of March-22 to 44.66% at the end of June-22.

Chart 1.3: Composition of Access subscription - Wireline & Wireless



1.6 Share of wireline subscription in total telephone subscription increased from 2.13% at the end of March-22 to 2.18% at the end of June-22.

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

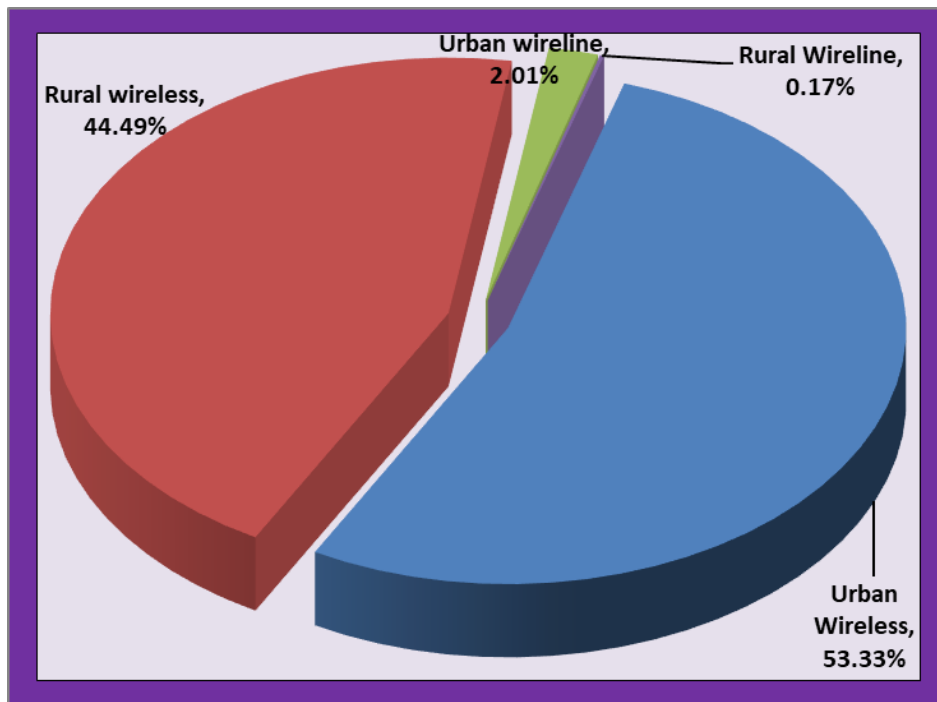


Table 1.2: Service Area wise Access (Wireless+Wireline) Subscriber base

Service Area	Subscribers (million)			
	Mar-22	June-22	Net Additions	Rate of Growth
Andhra Pradesh	85.12	85.30	0.19	0.22%
Assam	24.25	24.35	0.09	0.37%
Bihar	86.76	89.42	2.67	3.07%
Delhi	56.20	56.97	0.78	1.38%
Gujarat	68.36	68.47	0.11	0.15%
Haryana	27.56	27.48	-0.08	-0.28%
Himachal Pradesh	10.29	9.91	-0.38	-3.72%
Jammu & Kashmir	12.23	12.05	-0.18	-1.50%
Karnataka	67.37	67.99	0.61	0.91%
Kerala	44.69	44.20	-0.50	-1.12%
Madhya Pradesh	77.79	78.38	0.59	0.76%
Maharashtra	93.69	93.75	0.06	0.07%
Mumbai	37.38	37.38	0.01	0.01%
North East	12.08	12.15	0.07	0.55%
Odisha	32.86	33.15	0.29	0.90%
Punjab	37.94	37.36	-0.58	-1.52%
Rajasthan	63.88	63.87	-0.01	-0.02%
Tamil Nadu	81.20	81.36	0.16	0.20%
Uttar Pradesh(E)	101.16	102.33	1.17	1.16%
Uttar Pradesh(W)	64.69	65.12	0.43	0.66%
Kolkata	24.67	24.59	-0.08	-0.34%
West Bengal	56.77	57.39	0.61	1.08%
All India	1,166.93	1,172.96	6.02	0.52%

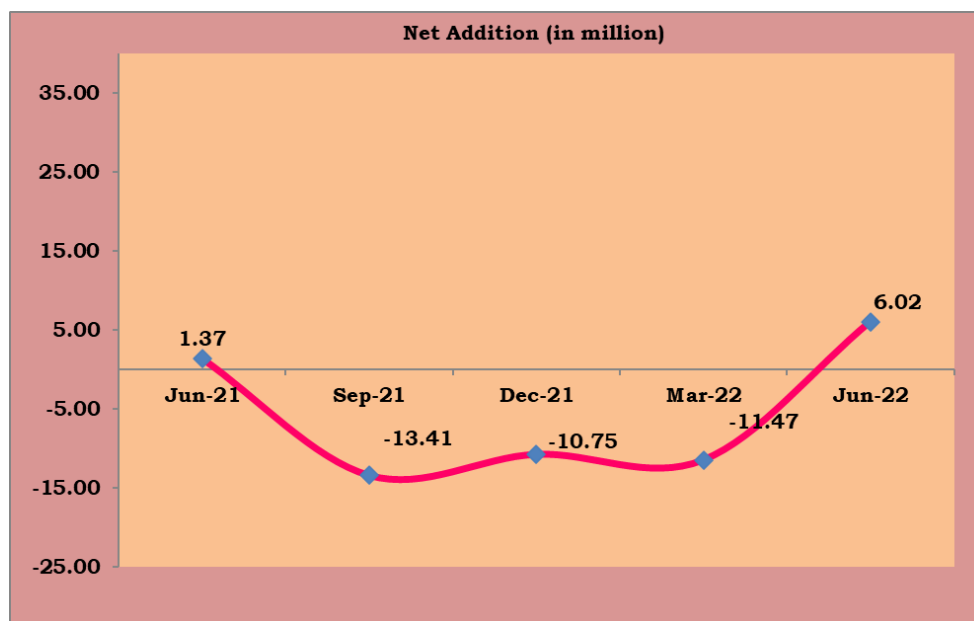
1.7 All service areas, except Haryana, Himachal Pradesh, Jammu & Kashmir, Kerala, Punjab, Rajasthan and Kolkata showed growth in their subscriber base during the quarter ending June-22. Bihar service area showed maximum growth of 3.07% during the quarter.

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

Service Area	Number of Subscribers (in million)			
	Total	Rural	Urban	% of Rural Subscribers
Andhra Pradesh	85.30	41.67	43.63	48.85%
Assam	24.35	15.25	9.09	62.64%
Bihar	89.42	59.04	30.38	66.03%
Delhi	56.97	1.80	55.17	3.16%
Gujarat	68.47	26.96	41.51	39.38%
Haryana	27.48	12.12	15.37	44.09%
Himachal Pradesh	9.91	6.47	3.43	65.34%
Jammu & Kashmir	12.05	5.81	6.24	48.22%
Karnataka	67.99	26.46	41.53	38.92%
Kerala	44.20	19.70	24.50	44.57%
Madhya Pradesh	78.38	35.22	43.16	44.93%
Maharashtra	93.75	43.07	50.68	45.95%
Mumbai	37.38	1.14	36.24	3.06%
North East	12.15	6.25	5.90	51.45%
Odisha	33.15	21.74	11.41	65.57%
Punjab	37.36	12.45	24.91	33.32%
Rajasthan	63.87	34.39	29.48	53.85%
Tamil Nadu	81.36	23.40	57.96	28.76%
U.P.(E)	102.33	63.38	38.95	61.94%
U.P.(W)	65.12	30.92	34.20	47.48%
Kolkata	24.59	1.54	23.05	6.27%
West Bengal	57.39	35.08	22.30	61.14%
All India	1,172.96	523.87	649.09	44.66%

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 66.03% in its total telephone subscribers.

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



1.9 The net increase in telephone subscription is 6.02 million during QE June-22 as compared to the decline of 11.47 million during QE March-22.

Table 1.4 : Service Area wise Tele-density

Service Area/ States	As on 31 st March, 2022			As on 30 th June, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Andhra Pradesh	76.81	118.01	93.53	77.22	117.52	93.64
Assam	50.72	165.83	68.50	50.84	165.55	68.60
Bihar	41.38	115.61	52.88	42.44	118.92	54.31
Delhi	-	-	267.64	-	-	270.06
Gujarat	72.89	118.36	95.08	73.20	117.58	94.91
Haryana	69.95	123.60	92.24	69.35	122.95	91.71
Himachal Pradesh	101.51	460.65	138.44	96.97	448.35	133.13
J&K	58.91	156.72	88.55	60.29	148.46	87.07
Karnataka	68.42	140.47	100.10	70.20	139.73	100.85
Kerala	210.29	94.32	125.15	211.52	92.66	123.63

Service Area/ States	As on 31 st March, 2022			As on 30 th June, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Madhya Pradesh	42.11	131.14	67.35	42.46	131.20	67.66
Maharashtra (incl. Mumbai)*	67.50	140.84	103.15	67.88	140.25	103
North East	60.59	109.67	77.35	60.77	109.84	77.60
Orissa	59.67	138.32	74.38	60.53	137.66	74.99
Punjab	71.28	181.32	119.41	69.63	178.64	117.40
Rajasthan	58.29	138.83	79.62	58.18	138.17	79.39
Tamil Nadu	64.92	137.35	103.76	64.57	137.72	103.88
Uttar Pradesh (incl. UPE & UPW)*	50.39	121.16	67.68	50.83	121.64	68.16
West Bengal (incl. Kolkata)*	57.05	124.48	81.66	57.87	124.04	82.09
All India	58.07	134.94	84.88	58.46	134.72	85.13

* 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 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.

1.10 Kerala service area has the highest Rural Tele-density of 211.52 followed by Himachal Pradesh service area of 96.97. Bihar service area has the lowest Rural Tele-density of 42.44 followed by Madhya Pradesh service area with rural tele-density of 42.46 in QE June-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	44.45	24.60	19.85
2	Arunachal Pradesh	1.32	0.78	0.54
3	Assam	24.35	15.25	9.09
4	Bihar	66.35	46.44	19.91
5	Chhattisgarh	20.47	9.85	10.61
6	Goa	2.14	0.76	1.38
7	Gujarat	67.54	26.63	40.91
8	Haryana	33.47	12.16	21.31
9	Himachal Pradesh	9.91	6.47	3.43
10	Jharkhand	23.07	12.60	10.47
11	Karnataka	67.99	26.46	41.53
12	Kerala	44.12	19.68	24.44
13	Madhya Pradesh	57.92	25.37	32.55
14	Maharashtra Incl. Mumbai	128.99	43.46	85.53
15	Manipur	2.33	1.04	1.30
16	Meghalaya	2.45	1.44	1.01
17	Mizoram	1.39	0.62	0.77
18	Nagaland	1.58	0.90	0.68
19	Odisha	33.15	21.74	11.41
20	Punjab	35.51	12.41	23.10
21	Rajasthan	63.87	34.39	29.48
22	Sikkim	0.96	0.57	0.39
23	Tamil Nadu	80.22	23.07	57.15
24	Telangana	40.85	17.07	23.78
25	Tripura	3.07	1.47	1.60
26	Uttar Pradesh (UPE + UPW)	162.54	87.83	74.70
27	Uttarakhand	13.07	6.47	6.60
28	West Bengal Incl. Kolkata	80.47	35.85	44.62
Union Territories				
1	Andaman & Nicobar Islands	0.55	0.21	0.34
2	Chandigarh	1.85	0.03	1.81
3	Dadra and Nagar Haveli and Daman and Diu	0.93	0.33	0.59
4	Delhi	42.83	1.75	41.08
5	Jammu & Kashmir	11.52	5.53	6.00
6	Ladakh	0.52	0.28	0.24
7	Lakshdweep	0.08	0.02	0.06
8	Puduchery	1.14	0.33	0.81
Total		1172.96	523.87	649.09

Table 1.6 : State/UT wise total Tele-density

Sl.No.	State/UT	Total Tele-density (%)		
		Total	Rural	Urban
1	Andhra Pradesh	83.82	122.90	228.10
2	Arunachal Pradesh	85.08	67.81	135.62
3	Assam	68.60	50.84	165.55
4	Bihar	52.86	42.15	129.72
5	Chhattisgarh	68.33	45.00	131.70
6	Goa	136.51	194.41	117.30
7	Gujarat	95.21	72.75	119.16
8	Haryana	111.69	69.63	170.49
9	Himachal Pradesh	133.13	96.97	448.35
10	Jharkhand	58.96	43.56	102.67
11	Karnataka	100.85	70.20	139.73
12	Kerala	123.65	211.33	92.69
13	Madhya Pradesh	67.43	41.55	131.04
14	Maharashtra Incl. Mumbai	102.59	66.92	140.69
15	Manipur	72.86	47.76	125.62
16	Meghalaya	73.69	54.48	147.65
17	Mizoram	113.22	111.64	114.52
18	Nagaland	71.10	73.44	68.22
19	Odisha	74.99	60.53	137.66
20	Punjab	116.06	69.44	181.56
21	Rajasthan	79.39	58.18	138.17
22	Sikkim	139.57	158.78	118.49
23	Tamil Nadu (incl. Chennai)	104.58	64.52	139.56
24	Telangana	107.34	85.10	132.12
25	Tripura	74.50	58.00	100.89
26	Uttar Pradesh (UPE +UPW)	69.43	49.32	133.35
27	Uttarakhand	113.07	86.88	160.48
28	West Bengal Incl. Kolkata	81.48	57.17	123.75
Union Territories				
1	Andaman & Nicobar Islands	135.66	90.78	193.38
2	Chandigarh	150.93	-	-
3	Dadra and Nagar Haveli and Daman and Diu	77.26	142.43	61.49
4	Delhi	203.01	-	-
5	Jammu & Kashmir	85.13	58.66	145.82
6	Ladakh	174.70	134.08	267.86
7	Lakshdweep	109.84	-	-
8	Puduchery	70.46	68.24	71.41
Total		85.13	58.46	134.72

Table 1.7 : Service Provider wise Growth in Subscriber base

Service Provider	Subscriber base (millions)			Rate of Growth (%)	Market Share in QE Mar-22 (%)	Market Share in QE Jun-22 (%)
	Mar-22	Jun-22	Net Additions			
Reliance Jio	410.17	419.99	9.82	2.39	35.15	35.81
Bharti Airtel	366.18	369.00	2.82	0.77	31.38	31.46
Vodafone Idea Ltd	261.35	257.32	-4.03	-1.54	22.40	21.94
BSNL	121.25	118.73	-2.53	-2.08	10.39	10.12
MTNL	5.94	5.87	-0.07	-1.19	0.51	0.50
Tata Teleservices	1.60	1.59	-0.01	-0.91	0.14	0.14
Quadrant	0.27	0.30	0.032	11.86	0.02	0.03
Reliance Com.	0.18	0.17	0.00	-2.73	0.02	0.01
Total	1,166.93	1,172.96	6.02	0.52	100	100

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

1.11 M/s Reliance Jio Infocomm Ltd is the market leader with 35.81% in the access segment in terms of number of subscribers with 419.99 million subscribers at the end of June-22 followed by M/s Bharti Airtel Ltd with 369 million subscribers.

1.12 In term of net addition, Reliance Jio became the biggest gainer with net addition of 9.82 million telephone subscribers during the QE Jun-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	419.99	180.95	43.08%	34.54
Bharti Airtel	369	176.33	47.79%	33.66
Vodafone Idea Ltd	257.32	128.90	50.09%	24.60
BSNL	118.73	37.60	31.67%	7.18
MTNL	5.87	0.04	0.77%	0.01
Tata Teleservices	1.59	0.03	2.07%	0.01
Quadrant	0.30	0.02	7.19%	0.004
Reliance Com.	0.17	0.00	0.22%	0.00
Total	1,172.96	523.87	44.66	100

1.13 M/s Vodafone Idea Ltd is the telecom service provider with highest proportion of rural telephone subscribers of 50.09% followed by Bharti Airtel of 47.79% to their total telephone subscribers at the end of June-22.

Section B : Wireless Service

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

[As on 30th June, 2022]

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

Source : DoT website

UL Access Services Licensees Virtual Network Operators (VNOs) who are providing services as on 30th June, 2022

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

- 1.14 Number of total wireless (Mobile and WLL (F)) subscribers increased from 1,142.09 million at the end of March-22 to 1,147.39 million at the end of June-22, thereby showing a quarterly growth rate of 0.46%. During the quarter, net increase of 5.30 million wireless subscribers has been recorded.
- 1.15 The total wireless subscriber base recorded a Y-O-Y decline rate of 2.83% in QE June-22 over the same quarter in the previous year.
- 1.16 Wireless Teledensity in the country increased from 83.07% at the end of March-22 to 83.27% at the end of June-22.

Chart 1.6: Wireless Subscriber Base and Teledensity

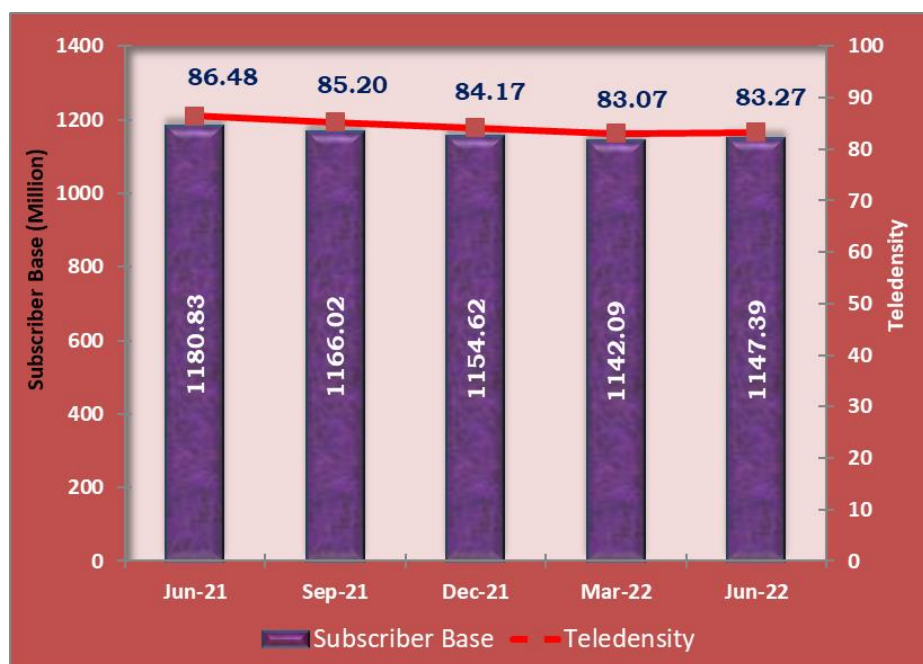


Table 1.10: Wireless Subscriber Base & Tele-density - Rural & Urban

Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
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
Jun-22	521.90	625.49	58.24	129.82

1.17 Number of Rural Wireless subscribers increased from 517.86 million at the end of March-22 to 521.90 million at the end of June-22 and number of urban wireless subscribers also increased from 624.23 million to 625.49 million during the quarter. Quarterly growth rates of Rural and Urban wireless subscriptions are 0.78% and 0.20% respectively during QE June-22.

1.18 The share of rural wireless subscription increased from 45.34% to 45.49% in total wireless subscription during QE June-22.

Chart 1.7: Wireless Market Share - Rural & Urban

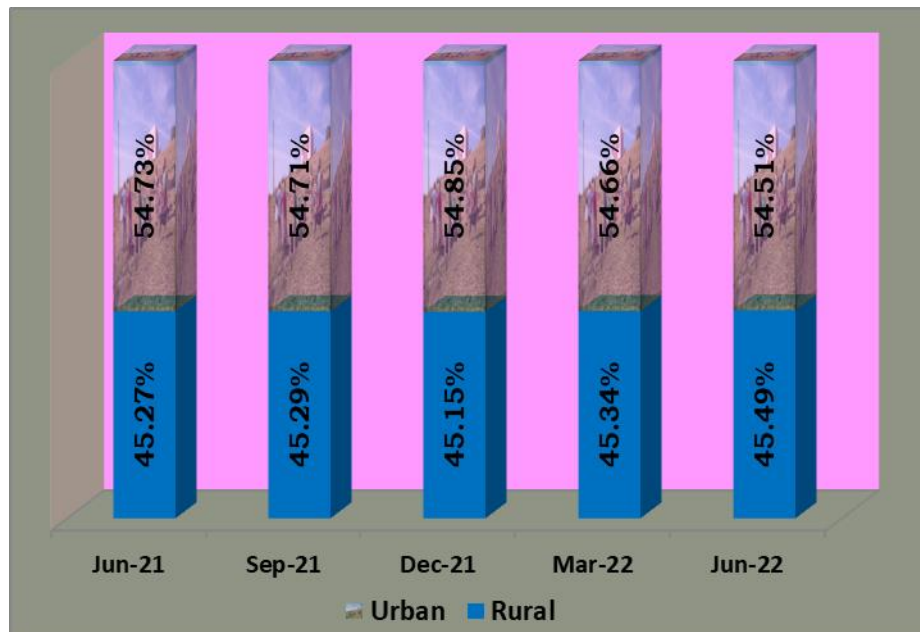


Table 1.11: Growth in Wireless Subscriber base

Service Provider	Subscriber Base (millions)			Rate of Growth	Market Share Mar-22	Market Share Jun-22
	Mar-22	Jun-22	Net Additions			
Reliance Jio	403.99	413.01	9.02	2.23%	35.37%	36.00%
Bharti Airtel	360.33	362.97	2.64	0.73%	31.55%	31.63%
Vodafone Idea Ltd	260.77	256.65	-4.13	-1.58%	22.83%	22.37%
BSNL	113.74	111.52	-2.22	-1.95%	9.96%	9.72%
MTNL	3.25	3.24	-0.01	-0.27%	0.28%	0.28%
Reliance Com.	0.003	0.003	0.00	-5.77%	0.0003%	0.0003%
Total	1142.09	1,147.39	5.30	0.46%	100	100

1.19 M/s RJIL Limited is the market leader with a wireless subscriber base of 413.01 million which translates into market share of 36% w.r.t total wireless subscriber base. M/s Bharti Airtel Ltd. is at 2nd position with a total subscriber base of 362.97 million and market share of 31.63%.

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

Table 1.12: Service Area wise Wireless Subscriber base

Service Area	Subscriber base (in million)			
	Mar-22	Jun-22	Net Additions	Rate of change (%)
Andhra Pradesh	83.12	83.21	0.09	0.11%
Assam	24.05	24.11	0.06	0.27%
Bihar	86.32	88.95	2.63	3.05%
Delhi	52.27	53.00	0.73	1.40%
Gujarat	67.30	67.37	0.07	0.11%
Haryana	27.22	27.12	-0.10	-0.36%
Himachal Pradesh	10.17	9.78	-0.39	-3.83%
Jammu & Kashmir	11.95	11.75	-0.20	-1.67%
Karnataka	64.67	65.21	0.54	0.84%
Kerala	43.37	42.88	-0.49	-1.14%
Madhya Pradesh	76.76	77.27	0.51	0.66%
Maharashtra	92.30	92.34	0.04	0.04%
Mumbai	34.27	34.17	-0.09	-0.27%
North East	11.92	11.97	0.05	0.43%
Orissa	32.53	32.81	0.28	0.86%
Punjab	36.99	36.35	-0.63	-1.72%
Rajasthan	63.19	63.13	-0.05	-0.08%
Tamil Nadu	78.85	78.96	0.11	0.14%
U.P.(E)	100.61	101.72	1.11	1.11%
U.P.(W)	64.09	64.48	0.39	0.61%
Kolkata	23.77	23.81	0.04	0.17%
West Bengal	56.39	56.98	0.59	1.05%
All India	1,142.09	1,147.39	5.30	0.46%

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	83.21	41.48	41.73	49.85%
Assam	24.11	15.23	8.88	63.17%
Bihar	88.95	59.01	29.94	66.34%
Delhi	53.00	1.80	51.21	3.39%
Gujarat	67.37	26.89	40.48	39.92%
Haryana	27.12	12.06	15.07	44.46%
Himachal Pradesh	9.78	6.42	3.36	65.67%
Jammu & Kashmir	11.75	5.80	5.96	49.32%
Karnataka	65.21	26.35	38.86	40.41%
Kerala	42.88	19.06	23.82	44.46%
Madhya Pradesh	77.27	35.19	42.07	45.55%
Maharashtra	92.34	42.93	49.41	46.49%
Mumbai	34.17	1.14	33.04	3.33%
North East	11.97	6.24	5.73	52.11%
Orissa	32.81	21.70	11.11	66.14%
Punjab	36.35	12.34	24.01	33.94%
Rajasthan	63.13	34.34	28.79	54.40%
T.N. (incl. Chennai)	78.96	23.13	55.83	29.30%
U.P.(E)	101.72	63.36	38.36	62.29%
U.P.(W)	64.48	30.89	33.59	47.91%
Kolkata	23.81	1.54	22.27	6.47%
West Bengal	56.98	34.99	21.99	61.41%
All India	1,147.39	521.90	625.49	45.49%

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 March, 2022			As on 30 th June, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density(%)
A.P.	76.47	113.10	91.34	76.87	112.40	91.35
Assam	50.66	162.36	67.91	50.78	161.62	67.93
Bihar	41.35	114.02	52.61	42.42	117.19	54.02
Delhi	-	-	248.93	-	-	251.25
Gujarat	72.70	115.54	93.60	73.01	114.67	93.40
Haryana	69.64	121.33	91.12	69.03	120.55	90.51
H.P.	100.75	451.42	136.81	96.20	438.33	131.41
J&K	58.76	150.35	86.52	60.15	141.72	84.92
Karnataka	68.15	131.68	96.09	69.92	130.74	96.74
Kerala	203.50	91.74	121.45	204.70	90.10	119.95
M.P.	42.08	128.05	66.46	42.43	127.88	66.70
Maharashtra (incl. Mumbai)*	67.26	133.81	99.61	67.44	133.4	99.37
North East	60.46	106.84	76.30	60.63	106.75	76.45
Orissa	59.56	134.82	73.64	60.42	134.01	74.22
Punjab	70.66	175.28	116.41	69.02	172.18	114.23
Rajasthan	58.21	135.79	78.76	58.10	134.95	78.48
Tamil Nadu	64.21	132.37	100.75	63.83	132.66	100.81
Uttar Pradesh (incl. UPE&UPW)*	50.36	119.32	67.21	50.80	119.65	67.66
West Bengal (incl. Kolkata)*	56.91	121.22	80.38	57.72	121.07	80.92
All India	57.85	130.17	83.07	58.24	129.82	83.27

* 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	43.34	24.46	18.88
2	Arunachal Pradesh	1.30	0.78	0.52
3	Assam	24.11	15.23	8.88
4	Bihar	66.12	46.42	19.71
5	Chhattisgarh	20.21	9.84	10.37
6	Goa	2.07	0.74	1.33
7	Gujarat	66.45	26.56	39.89
8	Haryana	32.98	12.11	20.88
9	Himachal Pradesh	9.78	6.42	3.36
10	Jharkhand	22.83	12.59	10.23
11	Karnataka	65.21	26.35	38.86
12	Kerala	42.81	19.05	23.76
13	Madhya Pradesh	57.05	25.35	31.70
14	Maharashtra	124.43	43.32	81.11
15	Manipur	2.30	1.03	1.26
16	Meghalaya	2.41	1.44	0.98
17	Mizoram	1.37	0.62	0.75
18	Nagaland	1.56	0.90	0.66
19	Odisha	32.81	21.70	11.11
20	Punjab	34.70	12.31	22.40
21	Rajasthan	63.13	34.34	28.79
22	Sikkim	0.95	0.57	0.38
23	Tamil Nadu	77.88	22.81	55.06
24	Telangana	39.87	17.03	22.85
25	Tripura	3.03	1.47	1.56
26	Uttar Pradesh	161.34	87.80	73.54
27	Uttarakhand	12.85	6.45	6.39
28	West Bengal	79.34	35.78	43.56
Union Territories				
1	Andaman & Nicobar Islands	0.51	0.19	0.32
2	Chandigarh	1.65	0.03	1.61
3	Dadra and Nagar Haveli and Daman and Diu	0.92	0.33	0.59
4	Delhi	39.16	1.75	37.41
5	Jammu & Kashmir	11.23	5.52	5.71
6	Ladakh	0.52	0.28	0.24
7	Lakshdweep	0.07	0.02	0.05
8	Puduchery	1.09	0.32	0.77
Total		1147.39	521.90	625.49

Table 1.16 : State/UT wise Wireless Tele-density

Sl.No.	State/UT	Wireless Tele-density (%)		
		Total	Rural	Urban
1	Andhra Pradesh	81.72	72.14	98.71
2	Arunachal Pradesh	83.97	67.43	132.38
3	Assam	67.93	50.78	161.62
4	Bihar	52.67	42.13	128.39
5	Chhattisgarh	67.49	44.96	128.69
6	Goa	132.18	189.81	113.07
7	Gujarat	93.68	72.57	116.18
8	Haryana	110.06	69.30	167.03
9	Himachal Pradesh	131.41	96.20	438.33
10	Jharkhand	58.33	43.53	100.34
11	Karnataka	96.74	69.92	130.74
12	Kerala	119.98	204.53	90.12
13	Madhya Pradesh	66.42	41.53	127.61
14	Maharashtra	98.96	66.71	133.43
15	Manipur	71.69	47.63	122.25
16	Meghalaya	72.50	54.40	142.16
17	Mizoram	110.92	111.53	110.42
18	Nagaland	70.27	73.39	66.42
19	Odisha	74.22	60.42	134.01
20	Punjab	113.41	68.84	176.03
21	Rajasthan	78.48	58.10	134.95
22	Sikkim	138.72	158.71	116.80
23	Tamil Nadu	101.53	63.80	134.47
24	Telangana	104.76	84.87	126.94
25	Tripura	73.56	57.85	98.71
26	Uttar Pradesh	68.92	49.30	131.27
27	Uttarakhand	111.18	86.69	155.51
28	West Bengal	80.33	57.05	120.81
Union Territories				
1	Andaman & Nicobar Islands	126.83	83.48	182.57
2	Chandigarh	134.64	-	-
3	Dadra and Nagar Haveli and Daman and Diu	76.77	141.61	61.08
4	Delhi	185.61	-	-
5	Jammu & Kashmir	82.97	58.53	139.00
6	Ladakh	173.20	133.33	264.63
7	Lakshdweep	103.84	-	-
8	Puduchery	67.01	66.16	67.37
All India Tele-density		83.27	58.24	129.82

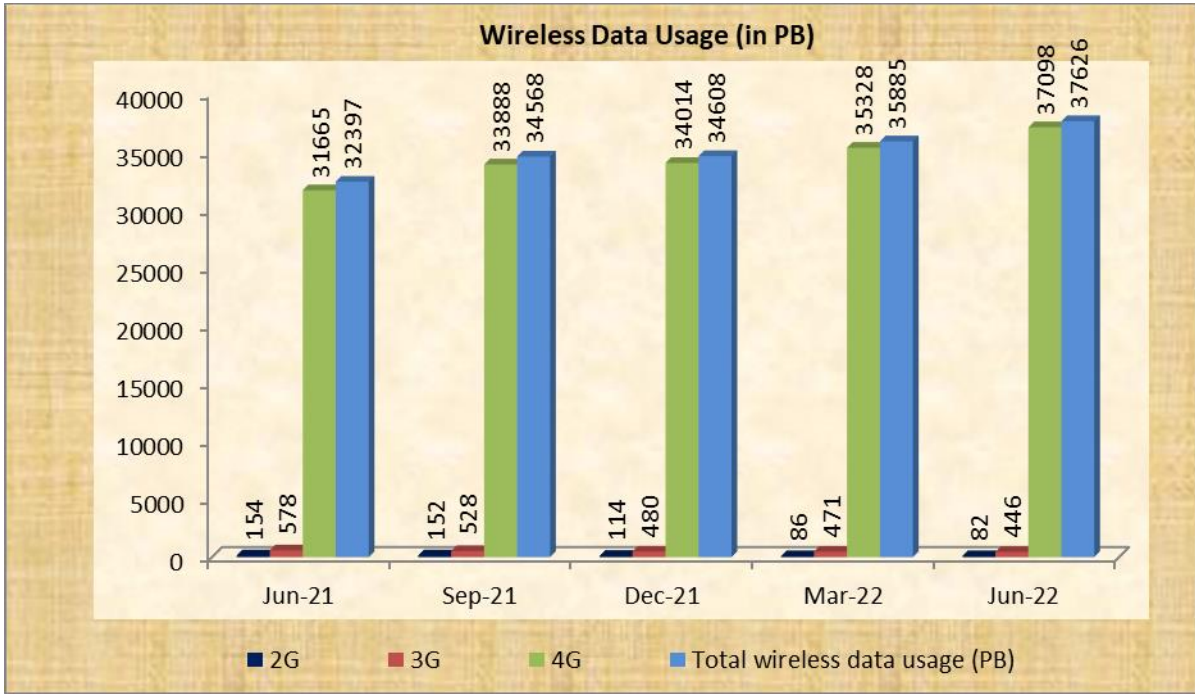
**Table 1.17 : Rural Wireless Subscriber base and Market Share
(as on 30.06.2022)**

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	413.01	180.82	43.78	34.65
Bharti Airtel*	362.97	176.33	48.58	33.79
Vodafone Idea Ltd	256.65	128.90	50.22	24.70
BSNL	111.52	35.81	32.11	6.86
MTNL	3.24	0.04	1.39	0.01
Reliance Com.	0.003	0.00	0.00	0.00
Total	1,147.39	521.90	45.49	100

Wireless Data Usage

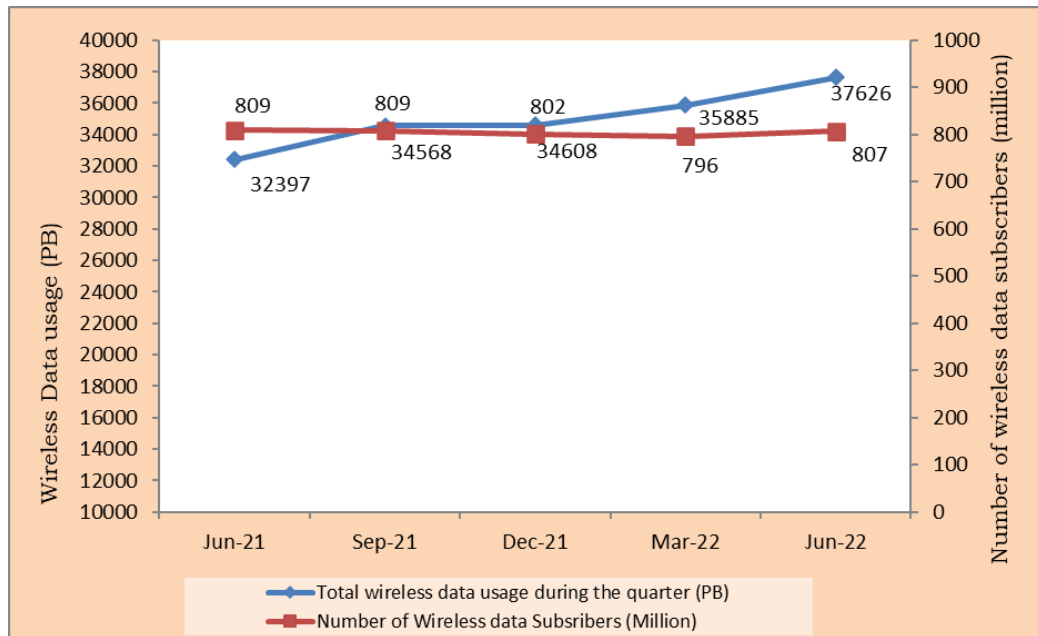
- 1.22 Volume of total wireless data usage increased from 35,885 PB during Q.E. March-22 to 37,626 PB during Q.E. June-22 with quarterly growth rate of 4.85%. Out of total data wireless usage, 2G data usage was 82 PB, 3G data usage was 446 PB and 4G data usage was 37,098 PB during the quarter.
- 1.23 Total number of wireless data subscribers increased from 796.44 million at the end of March-22 to 806.97 million at the end of June-22.
- 1.24 The contribution of 2G, 3G and 4G data usage in total volume of wireless data usage are about 0.22%, 1.18% and 98.60% respectively during the QE June-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 usease (in PB)



1.26 The following chart depicts the trend of number of wireless data subscribers and volume of wireless data usage in QE Jun-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 30th June, 2022]

Sl. No.	Name of the Service Provider	Area of Operation
1	Bharti Airtel Ltd	Andhra Pradesh, Assam, Delhi, Gujarat, Haryana, Himachal Pradesh, 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.	Delhi, Gujarat, Haryana, Himachal Pradesh, Karnataka, Kerala, Mumbai, Odisha, Punjab, Rajasthan, Tamil Nadu including Chennai, UP-West and West Bengal.
6.	Tata Teleservices Ltd. & Tata Teleservices (Maharashtra) Ltd	Andhra Pradesh, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Karnataka, Kerala, Kolkata, Madhya Pradesh, Maharashtra, Mumbai, Odisha, Punjab, Rajasthan, Tamil Nadu including Chennai, UP-East, UP-West and West Bengal.
7	Vodafone Idea Ltd	Andhra Pradesh, Assam, Bihar, Delhi, Gujarat, Haryana, Himachal Pradesh, Jammu & Kashmir, Karnataka, Kerala, Kolkata, Madhya Pradesh, Maharashtra, Mumbai, North-East, Odisha, Punjab, Rajasthan, Tamil Nadu including Chennai, UP-East, UPWest 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, UPWest and West Bengal

1.27 Total number of Wireline subscribers increased from 24.84 million at the end of Mar-22 to 25.57 million at the end of June-22 with quarterly growth rate of 2.92%. Overall Wireline Teledensity in the country increased from 1.81% at the end of Mar-22 to 1.86% at the end of Jun-22.

1.28 Urban wireline subscriber base increased by 3.11% from 22.88 million at the end of Mar-22 to 23.60 million at the end of Jun-22. Rural wireline subscription also increased by 0.65%, from 1.96 million to 1.97 million during the same period.

Chart 1.10: Wireline Subscriber Base and Tele-density

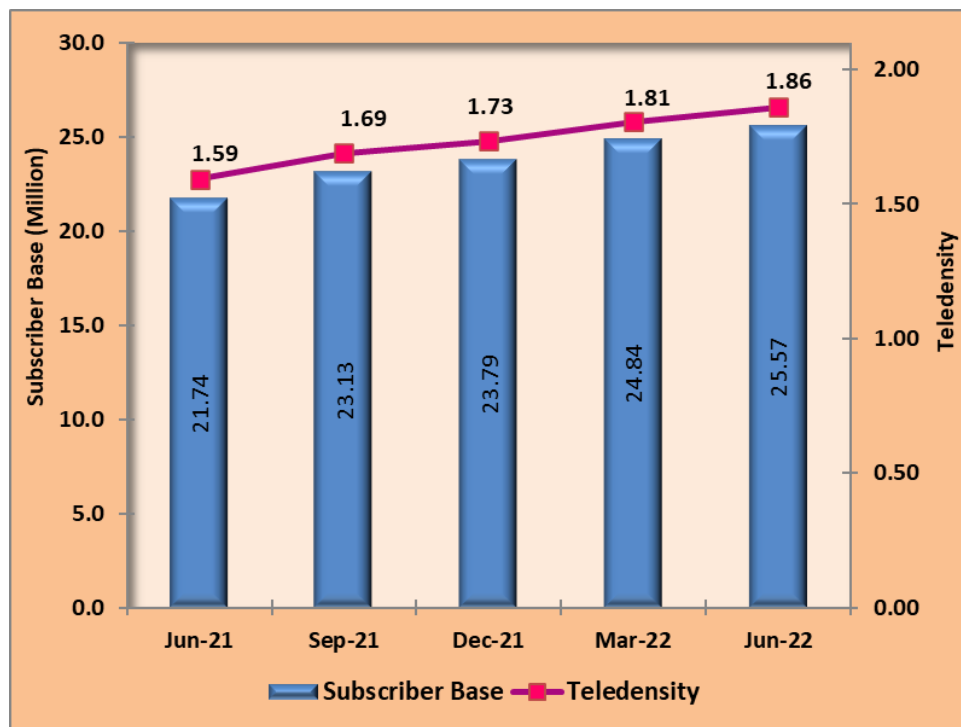


Table 1.19: Wireline Subscriber Base & Tele-density - Rural & Urban

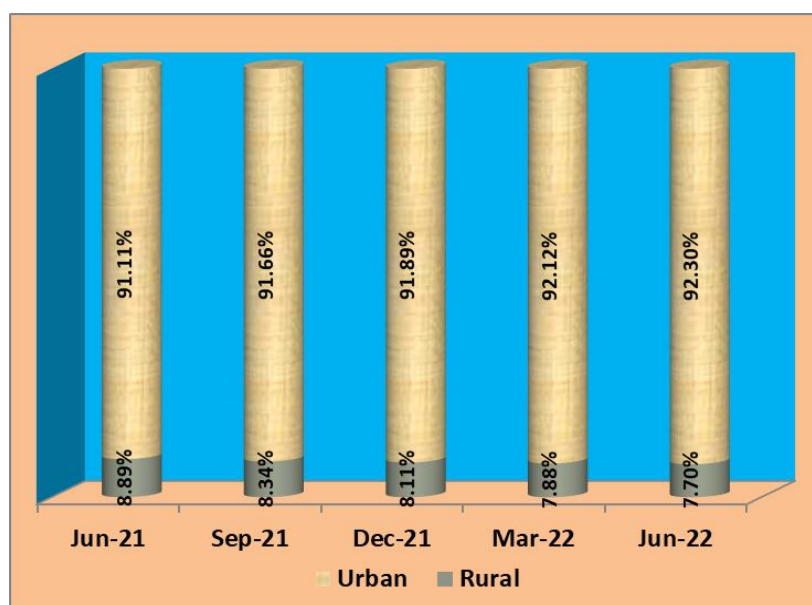
Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
Jun-21	1.93	19.80	0.22	4.19
Sep-21	1.93	21.20	0.22	4.46
Dec-21	1.93	21.86	0.22	4.58
Mar-22	1.96	22.88	0.22	4.77
Jun-22	1.97	23.60	0.22	4.90

**Table 1.20 : Service Provider wise Wireline Subscriber base
(Rural - Urban) – As on 30.06.2022**

Service Provider	Subscriber Base (million)			Percentage of Rural subscribers	Share of Rural subscription
	Rural	Urban	Total		
BSNL	1.79	5.42	7.20	24.80%	90.73%
Bharti	--	6.03	6.03	--	0.00%
MTNL	--	2.63	2.63	--	0.00%
Tata Tele.	0.03	1.55	1.59	2.07%	1.67%
Reliance Com.	0.0004	0.17	0.17	0.23%	0.02%
Quadrant	0.02	0.28	0.30	7.19%	1.09%
Vodafone Idea	--	0.67	0.67	--	0.00%
Reliance Jio	0.13	6.85	6.98	1.83%	6.49%
Total	1.97	23.60	25.57	7.70	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 7.88% in QE Mar-22 to 7.70% in QE Jun-22.

Table 1.21 : Service Provider wise growth in Wireline Subscriber base

Service Provider	Subscriber Base (million)			Rate of change (%)	Market share-Mar-22(%)	Market share-Jun-22(%)
	Mar-22	Jun-22	Net Addition			
BSNL	7.51	7.20	-0.31	-4.08	30.23	28.17
Reliance Jio	6.17	6.98	0.80	13.03	24.85	27.29
Bharti Airtel	5.85	6.03	0.18	3.05	23.55	23.58
MTNL	2.69	2.63	-0.06	-2.31	10.84	10.29
Vodafone Idea	0.57	0.67	0.10	17.26	2.30	2.63
Tata Tele.	1.60	1.59	-0.01	-0.91	6.44	6.20
Quadrant	0.27	0.30	0.03	11.86	1.07	1.17
Reliance Com	0.17	0.17	0.00	-2.67	0.70	0.66
Total	24.84	25.57	0.73	2.92	100	100

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

Service Area	Mar-22	Jun-22	Net Additions	Rate of Change (%)
Andhra Pradesh	1.99	2.09	0.09	4.74
Assam	0.21	0.24	0.03	12.73
Bihar	0.44	0.47	0.04	8.00
Delhi	3.93	3.97	0.04	1.07
Gujarat	1.06	1.09	0.03	2.94
Haryana	0.34	0.36	0.02	6.60
Himachal Pradesh	0.12	0.13	0.01	5.76
Jammu & Kashmir	0.28	0.30	0.02	5.77
Karnataka	2.70	2.78	0.07	2.68
Kerala	1.32	1.31	-0.01	-0.48

Service Area	Mar-22	Jun-22	Net Additions	Rate of Change (%)
Madhya Pradesh	1.04	1.12	0.08	8.00
Maharashtra	1.39	1.41	0.03	1.82
Mumbai	3.11	3.21	0.10	3.18
North East	0.16	0.18	0.02	9.35
Orissa	0.33	0.34	0.01	4.15
Punjab	0.95	1.01	0.06	6.14
Rajasthan	0.69	0.73	0.04	6.33
Tamil Nadu	2.35	2.40	0.05	2.14
U.P.(E)	0.55	0.61	0.06	10.77
U.P.(W)	0.60	0.64	0.04	6.06
Kolkata	0.90	0.78	-0.12	-13.78
West Bengal	0.38	0.40	0.02	6.42
All India	24.84	25.57	0.73	2.92

1.31 Assam service area showed maximum growth of 12.73% and Kolkata service area showed maximum decline of 13.78% in their wireline subscriber base during the quarter ending Jun-22.

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

Service Area	Total Subscribers	Rural Subscribers	Urban Subscribers	% of Rural Subscribers
Andhra Pradesh	2.09	0.19	1.90	8.97
Assam	0.24	0.02	0.22	8.38
Bihar	0.47	0.03	0.44	6.97
Delhi	3.97	0.00	3.97	0.04
Gujarat	1.09	0.07	1.03	6.22
Haryana	0.36	0.06	0.30	15.93
Himachal Pradesh	0.13	0.05	0.08	40.10
Jammu & Kashmir	0.30	0.01	0.28	4.71
Karnataka	2.78	0.10	2.67	3.77

Service Area	Total Subscribers	Rural Subscribers	Urban Subscribers	% of Rural Subscribers
Kerala	1.31	0.63	0.68	48.32
Madhya Pradesh	1.12	0.02	1.09	2.22
Maharashtra	1.41	0.15	1.27	10.37
Mumbai	3.21	0.01	3.20	0.25
North East	0.18	0.01	0.17	8.00
Orissa	0.34	0.04	0.30	11.16
Punjab	1.01	0.11	0.90	10.79
Rajasthan	0.73	0.05	0.69	6.36
Tamil Nadu	2.40	0.27	2.13	11.16
U.P.(E)	0.61	0.02	0.59	3.73
U.P.(W)	0.64	0.03	0.61	4.31
Kolkata	0.78	0.00	0.78	0.00
West Bengal	0.40	0.09	0.31	22.82
All India	25.57	1.97	23.60	7.70

1.32 Kerala service area has the maximum share 48.32% of rural wireline subscriber in its total wireline subscriber base at the end of Jun-22.

Table 1.24: Service Area wise Wireline Tele-density

Service Area	As on 31st March, 2022			As on 30th June, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Andhra Pradesh	0.33	4.91	2.19	0.35	5.12	2.29
Assam	0.06	3.47	0.59	0.07	3.93	0.66
Bihar	0.02	1.59	0.27	0.02	1.73	0.29
Delhi	-	-	18.70	-	-	18.81
Gujarat	0.19	2.83	1.48	0.18	2.91	1.52
Haryana	0.31	2.26	1.12	0.33	2.41	1.19
Himachal Pradesh	0.76	9.23	1.63	0.77	10.02	1.72
Jammu & Kashmir	0.15	6.37	2.03	0.15	6.74	2.15
Karnataka	0.28	8.78	4.02	0.28	8.99	4.12
Kerala	6.79	2.58	3.70	6.82	2.57	3.67

Service Area	As on 31 st March, 2022			As on 30 th June, 2022		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Madhya Pradesh	0.03	3.09	0.90	0.03	3.32	0.96
Maharashtra (incl. Mumbai)*	0.24	7.03	3.54	0.24	7.21	3.63
North East	0.13	2.83	1.05	0.14	3.08	1.15
Orissa	0.10	3.51	0.74	0.11	3.65	0.77
Punjab	0.62	6.04	2.99	0.61	6.46	3.17
Rajasthan	0.07	3.04	0.86	0.08	3.22	0.91
Tamil Nadu (incl. Chennai)	0.71	4.98	3.00	0.74	5.06	3.06
Uttar Pradesh (incl. UPE & UPW)*	0.03	1.84	0.47	0.03	1.99	0.51
West Bengal (incl. Kolkata)*	0.14	3.26	1.28	0.14	2.97	1.18
All India	0.22	4.77	1.81	0.22	4.90	1.86

* 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	1.11	0.14	0.97
2	Arunachal Pradesh	0.02	0.004	0.01
3	Assam	0.24	0.02	0.22
4	Bihar	0.23	0.02	0.20
5	Chhattisgarh	0.25	0.01	0.24
6	Goa	0.07	0.02	0.05
7	Gujarat	1.09	0.07	1.02
8	Haryana	0.49	0.06	0.43
9	Himachal Pradesh	0.13	0.05	0.08
10	Jharkhand	0.25	0.01	0.24
11	Karnataka	2.78	0.10	2.67
12	Kerala	1.31	0.63	0.68
13	Madhya Pradesh	0.87	0.02	0.85
14	Maharashtra Incl. Mumbai	4.56	0.14	4.42
15	Manipur	0.04	0.003	0.03
16	Meghalaya	0.04	0.002	0.04
17	Mizoram	0.03	0.001	0.03
18	Nagaland	0.02	0.001	0.02
19	Odisha	0.34	0.04	0.30
20	Punjab	0.81	0.11	0.70
21	Rajasthan	0.73	0.05	0.69
22	Sikkim	0.006	0.0003	0.01
23	Tamil Nadu	2.34	0.26	2.09
24	Telangana	0.98	0.05	0.93
25	Tripura	0.04	0.004	0.03
26	Uttar Pradesh (UPE+UPW)	1.20	0.04	1.16
27	Uttarakhand	0.22	0.01	0.20
28	West Bengal Incl. Kolkata	1.14	0.07	1.06
Union Territories				
1	Andaman & Nicobar Islands	0.04	0.02	0.02
2	Chandigarh	0.20	0.002	0.20
3	Dadra and Nagar Haveli and Daman and Diu	0.006	0.002	0.004
4	Delhi	3.67	0.00	3.67
5	Jammu & Kashmir	0.29	0.01	0.28
6	Ladakh	0.004	0.002	0.003
7	Lakshdweep	0.004	0.002	0.002
8	Puduchery	0.06	0.01	0.05
Total		25.57	1.97	23.60

Table 1.26: State/UT wise Wireline Tele-density

Sl.No.	State/UT	Wireline Tele-density		
		Total (%)	Rural (%)	Urban (%)
1	Andhra Pradesh	3.94	0.55	9.94
2	Arunachal Pradesh	1.11	0.38	3.24
3	Assam	0.66	0.07	3.93
4	Bihar	0.18	0.02	1.33
5	Chhattisgarh	0.84	0.04	3.01
6	Goa	4.32	4.60	4.23
7	Gujarat	1.53	0.18	2.98
8	Haryana	1.64	0.33	3.46
9	Himachal Pradesh	1.72	0.77	10.02
10	Jharkhand	0.63	0.03	2.33
11	Karnataka	4.12	0.28	8.99
12	Kerala	3.67	6.80	2.57
13	Madhya Pradesh	1.01	0.03	3.42
14	Maharashtra Incl. Mumbai	3.62	0.21	7.27
15	Manipur	1.18	0.13	3.37
16	Meghalaya	1.19	0.07	5.49
17	Mizoram	2.30	0.11	4.10
18	Nagaland	0.83	0.05	1.80
19	Odisha	0.77	0.11	3.65
20	Punjab	2.65	0.60	5.53
21	Rajasthan	0.91	0.08	3.22
22	Sikkim	0.84	0.07	1.69
23	Tamil Nadu	3.05	0.72	5.09
24	Telangana	2.57	0.24	5.18
25	Tripura	0.94	0.16	2.19
26	Uttar Pradesh (UPE + UPW)	0.51	0.02	2.07
27	Uttarakhand	1.89	0.19	4.97
28	West Bengal incl. Kolkata	1.15	0.12	2.94
Union Territories				
1	Andaman & Nicobar Islands	8.84	7.30	10.82
2	Chandigarh	16.28	223.30	16.11
3	Dadra and Nagar Haveli and Daman and Diu	0.49	0.82	0.41
4	Delhi	17.39	0.24	17.48
5	Jammu & Kashmir	2.16	0.13	6.82
6	Ladakh	1.50	0.75	3.23
7	Lakshdweep	6.00	162.40	3.67
8	Puduchery	3.45	2.08	4.04
Total		1.86	0.22	4.90

Public Call Offices (PCO)

1.33 Total number of PCOs in the country decreased from 66,154 at the end of Mar-22 to 61,427 at the end of Jun-22. Detailed table of service provider wise PCOs is available at **Annexure-1.3**.

Chart 1.12: Trend of Number of PCOs



1.34 Number of PCOs continued show declining trend over the year. It has recorded a overall quarterly decline rate of 7.15% and on Y-O-Y basis decline rate of 48.89% at the QE Jun-22.

Table 1.27: Rate of change & Market share of PCOs

Service Provider	Mar-22	Jun-22	Rate of change (%)	Market share (%) (Jun-22)
BSNL	45,434	42,257	-6.99	68.79
MTNL	16,443	14,906	-9.35	24.27
Bharti	3,861	3,861	0.00	6.29
Quadrant	416	403	-3.13	0.66
Total	66,154	61,427	-7.15	100

Village Public Telephones (VPTs)

- 1.35 There are 5,93,731 inhabited villages in India as per census 2001. During the Q.E. Jun-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 Jun-22 as were at the end of Mar-22.
- 1.37 As per the information received in TRAI, at the end of Jun-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 Jun-22. **Part-I** consists of information of Internet service (narrowband+broadband), **Part-II** consists of broadband service and **Part-III** covers narrowband service.

Part-I: Internet Service (broadband + narrowband)

1.39 As per reports received from 675 operators as compared to 660 operators in last quarter, total number of internet subscribers increased from 824.89 million at the end of Mar-22 to 836.86 million at the end of Jun-22 with quarterly growth rate of 1.45%. Out of total 836.86 million internet subscribers, 800.94 million were broadband subscribers and 35.92 million were narrowband subscribers.

1.40 Wired Internet subscribers increased from 27.27 million at the end of Mar-22 to 28.73 million at the end of Jun-22 with quarterly growth rate of 5.33%. Wireless Internet subscribers increased from 797.61 million at the end of Mar-22 to 808.13 million at the end of Jun-22 with quarterly growth rate of 1.32%.

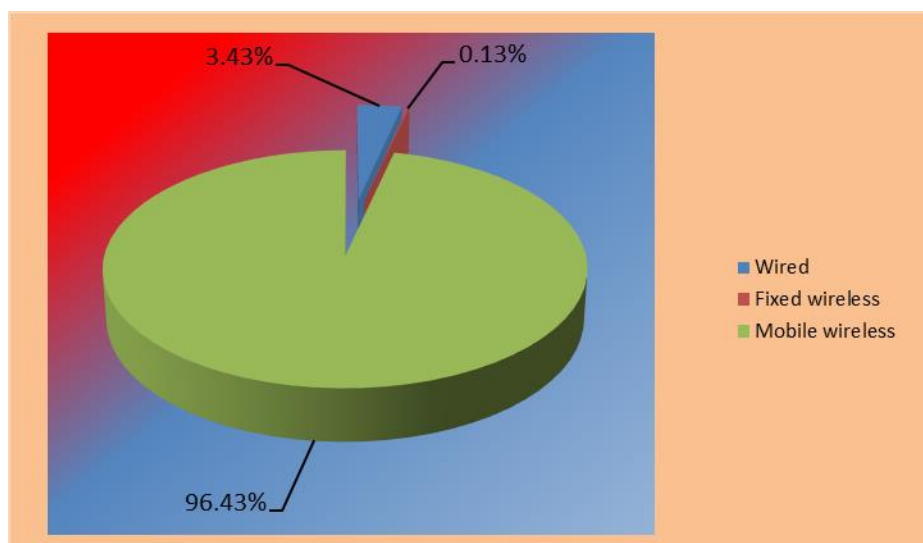
1.41 The number of Broadband subscribers increased from 788.30 million at the end of Mar-22 to 800.94 million at the end of Jun-22 with quarterly growth rate of 1.60%. Number of Narrowband subscribers declined from 36.59 million at the end of Mar-22 to 35.92 million at the end of Jun-22 with quarterly decline rate of 1.84%.

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			
Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	
Broadband	27.25	28.71	1.18	1.10	759.87	771.13	761.05	772.23	788.30	800.94
Narrowband	0.03	0.02	0.006	0.01	36.56	35.89	36.57	35.90	36.59	35.92
Total	27.27	28.73	1.18	1.11	796.43	807.02	797.61	808.13	824.89	836.86

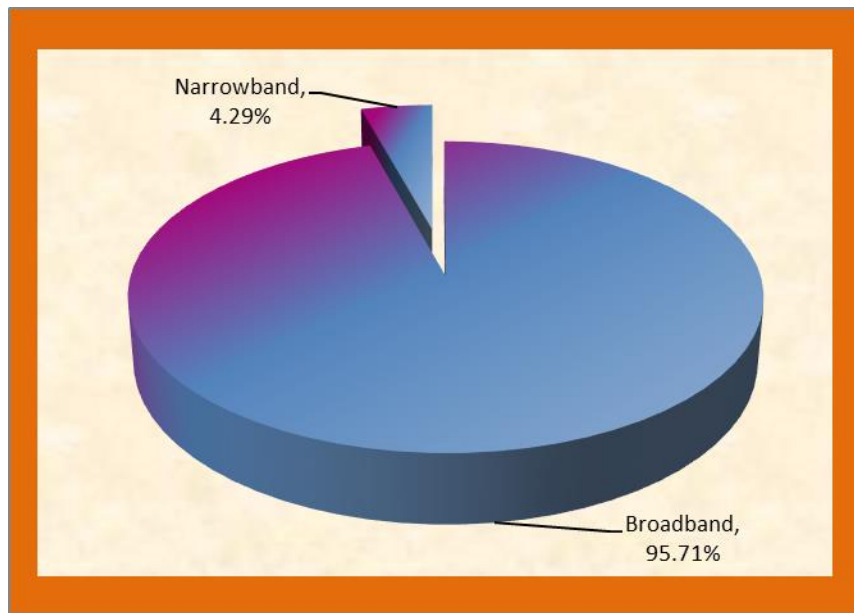
1.42 The following charts present the composition of Internet Subscribers by mode of access and composition of Broadband & Narrowband subscription as on 30TH June, 2022.

Chart 1.14: Composition of Internet subscription



1.43 Out of total internet subscribers, 96.43% subscribers are using Mobile devices for access of internet service. Wired internet subscribers are only 3.43% in total internet subscribers at the end of June-22.

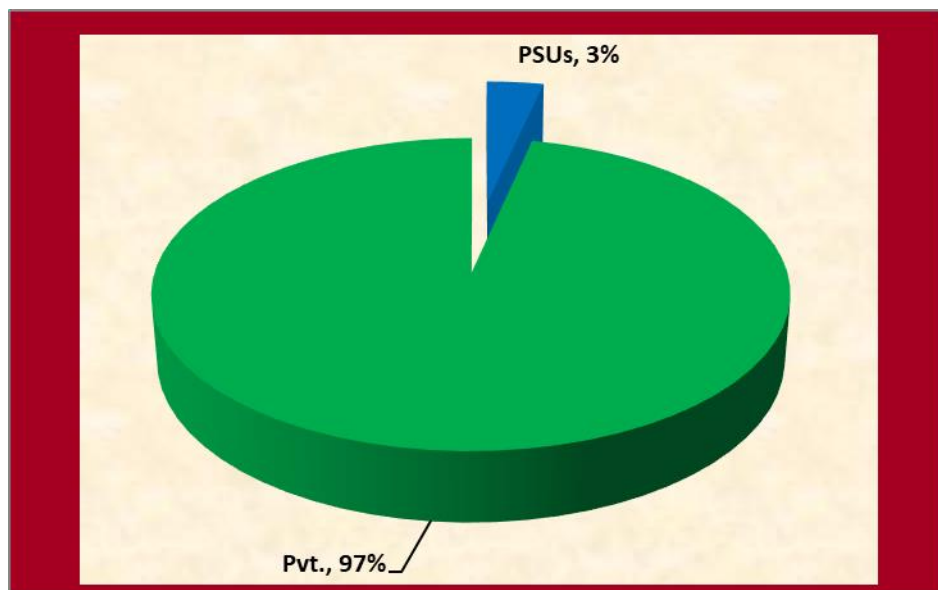
Chart 1.15 : Composition of Broadband & Narrowband subscription



1.44 Out of total internet subscribers, 95.71% subscribers are using broadband for access of internet.

1.45 Share of private internet service providers in total internet subscriber base is 97%, at QE Jun-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 (Jun-22)		Total (Mar-2022)	
	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban
Andhra Pradesh	1.43	1.33	26.26	33.97	27.70	35.30	27.13	34.92
Assam	0.43	0.18	9.43	6.14	9.87	6.32	9.68	6.30
Bihar	2.14	0.64	36.78	21.46	38.92	22.10	37.34	21.36
Delhi	0.27	5.34	0.52	41.96	0.79	47.30	0.80	45.92
Gujarat	0.46	0.61	16.22	34.17	16.67	34.78	16.52	34.99
Haryana	0.31	0.42	7.75	10.02	8.06	10.44	8.07	10.37
Himachal Pradesh	0.09	0.08	3.58	2.22	3.67	2.29	3.89	2.38
Jammu & Kashmir	0.15	0.10	3.90	4.76	4.05	4.86	3.90	4.73
Karnataka	1.05	1.23	17.33	29.53	18.38	30.77	17.45	30.64
Kerala	0.53	0.47	13.77	15.90	14.29	16.37	14.32	16.10
Kolkata	0.04	0.62	1.19	16.03	1.24	16.64	1.21	16.55
Madhya Pradesh	1.10	0.78	23.08	32.72	24.19	33.51	23.64	33.18
Maharashtra	1.23	1.02	29.13	40.34	30.35	41.36	29.94	41.20
Mumbai	0.01	1.33	1.03	27.48	1.04	28.82	1.02	28.86
North East	0.15	0.11	4.51	4.28	4.66	4.38	4.65	4.36
Orissa	0.52	0.18	13.50	7.04	14.02	7.22	13.69	7.20
Punjab	0.33	0.53	8.26	16.89	8.58	17.42	8.78	17.71
Rajasthan	0.84	0.73	20.55	22.39	21.39	23.12	21.17	23.18
Tamil Nadu	0.81	1.38	14.86	39.43	15.67	40.81	15.47	40.43
UP (East)	2.62	0.91	34.28	27.82	36.90	28.73	35.20	28.32
UP (West)	0.98	0.75	17.07	25.05	18.04	25.80	17.57	25.45
West Bengal	1.32	0.37	19.51	18.86	20.83	19.23	20.36	18.92
Grand Total	16.80	19.12	322.50	478.44	339.30	497.56	331.81	493.08
	35.92		800.94		836.86		824.89	

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

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

S.No.	State(s)	Narrowband		Broadband		Total (Jun 2022)	
		Rural	Urban	Rural	Urban	Rural	Urban
1	Andhra Pradesh	0.87	0.75	15.33	15.23	16.20	15.98
2	Arunachal Pradesh	0.01	0.01	0.43	0.32	0.45	0.33
3	Assam	0.43	0.18	9.43	6.14	9.87	6.32
4	Bihar	1.81	0.44	28.02	14.07	29.82	14.51
5	Chattisgarh	0.22	0.17	6.98	7.90	7.20	8.07
6	Goa	0.04	0.04	0.59	1.20	0.63	1.24
7	Gujarat	0.45	0.60	15.99	33.82	16.44	34.42
8	Haryana	0.31	0.42	7.80	13.04	8.11	13.45
9	Himachal Pradesh	0.09	0.08	3.58	2.22	3.67	2.29
10	Jharkhand	0.33	0.20	8.76	7.39	9.10	7.60
11	Karnataka	1.05	1.23	17.33	29.53	18.38	30.77
12	Kerala	0.48	0.47	13.73	15.89	14.21	16.37
13	Madhya Pradesh	0.88	0.61	16.10	24.84	16.98	25.45
14	Maharashtra incl. Mumbai	1.20	2.31	29.57	66.59	30.77	68.91
15	Manipur	0.03	0.02	0.83	1.16	0.85	1.18
16	Meghalaya	0.03	0.02	1.09	0.67	1.12	0.68
17	Mizoram	0.01	0.01	0.45	0.62	0.46	0.63
18	Nagaland	0.02	0.02	0.85	0.61	0.87	0.62
19	Odisha	0.52	0.18	13.50	7.04	14.02	7.22
20	Punjab	0.32	0.52	8.23	16.15	8.55	16.66
21	Rajasthan	0.84	0.73	20.55	22.38	21.39	23.11
22	Sikkim	0.02	0.00	0.34	0.35	0.37	0.36
23	Tamil Nadu incl. Chennai	0.80	1.37	14.63	39.02	15.43	40.39
24	Telangana	0.56	0.58	10.93	18.74	11.49	19.32
25	Tripura	0.04	0.03	0.87	0.92	0.91	0.96
26	Uttar Pradesh (UPE+UPW)	3.47	1.52	47.57	51.82	51.04	53.34
27	Uttarakhand	0.13	0.14	3.78	4.30	3.90	4.44
28	West Bengal incl. Kolkata	1.34	0.98	20.17	34.29	21.50	35.27
Union Territories							
1	Andaman & Nicobar Islands	0.00	0.00	0.19	0.23	0.19	0.23
2	Chandigarh	0.00	0.01	0.03	0.75	0.03	0.76
3	Dadar & Nagar Haweli (incl. Daman & Diu)	0.00	0.01	0.23	0.35	0.23	0.36
4	Delhi	0.27	5.34	0.47	35.69	0.74	41.04
5	Jammu & Kashmir	0.15	0.09	3.74	4.73	3.89	4.83
6	Ladakh	0.00	0.00	0.15	0.03	0.15	0.03
7	Lakshdweep	0.05	0.00	0.04	0.00	0.08	0.00
8	Puduchery	0.01	0.01	0.23	0.41	0.24	0.41
	Total	16.80	19.12	322.50	478.44	339.30	497.56
	Grand Total	35.92		800.94		836.86	

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

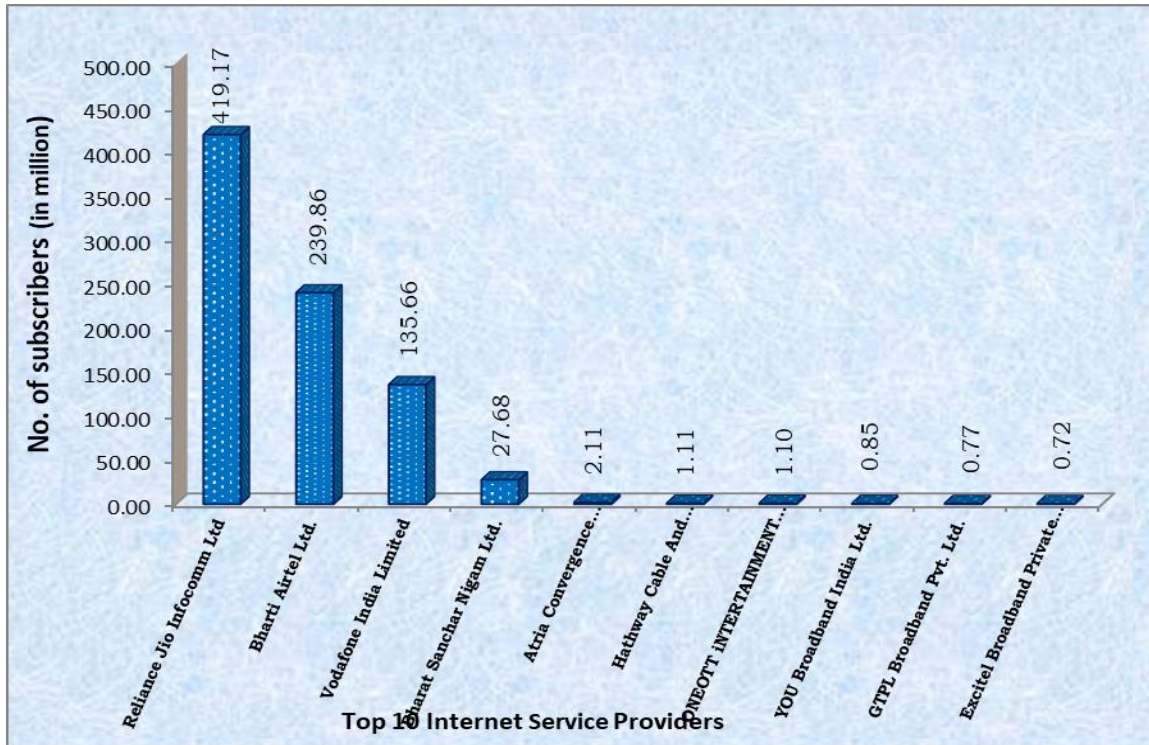
S.No	ISP	No. of Subscribers (In million)	Share (%)
1	Reliance Jio Infocomm Ltd	419.17	50.09%
2	Bharti Airtel Ltd.	239.86	28.66%
3	Vodafone Idea Ltd	135.66	16.21%
4	Bharat Sanchar Nigam Ltd.	27.68	3.31%
5	Atria Convergence Technologies Pvt. Ltd.	2.11	0.25%
6	Hathway Cable And Datacom Limited	1.11	0.13%
7	ONEOTT iNTERTAINMENT LIMITED	1.10	0.13%
8	YOU Broadband India Ltd.	0.85	0.10%
9	GTPL Broadband Pvt. Ltd.	0.77	0.09%
10	Excitel Broadband Pvt. Ltd.	0.72	0.09%
Total of Top 10 ISPs		829.03	99.06
Others		7.83	0.94
Grand Total		836.36	100

1.47 Reliance Jio holds the top position with 50.09% of market share of internet subscribers followed by Bharti Airtel Ltd with 28.66% at the QE Jun-22. M/s Vodafone Idea Ltd held the third position in respect of internet subscriber base with market share of 16.21%.

1.48 Out of total 675 internet service providers, top 10 Service Providers together hold 99.06% of total internet subscriber base at the QE Jun-22. Detailed table of number of internet subscriber base (broadband and narrowband) of all the service providers is available at **Annexure-1.5**.

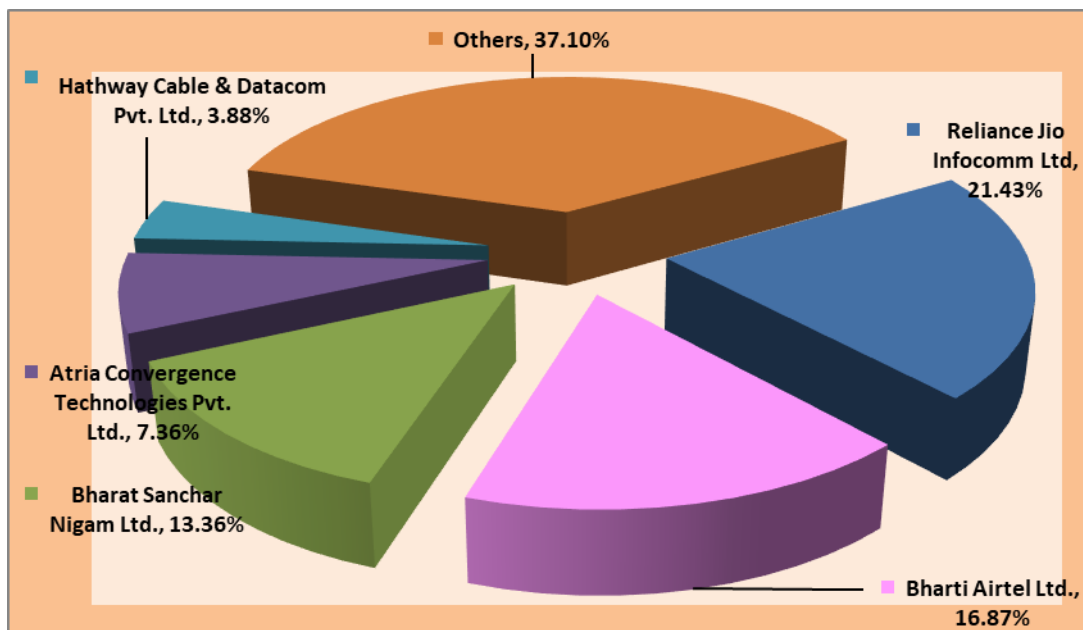
1.49 The following chart depicts the internet subscriber base of top ten Internet Service Providers (ISPs) in the QE Jun-22.

Chart 1.17 : Subscriber base of top ten ISPs



1.50 Out of total 28.73 million wired internet subscribers, Reliance Jio Infocomm Ltd holds 21.43% market share with 6.16 million subscribers, followed by Bharti with 4.85 million subscribers.

Chart 1.18 : Composition of Wired Internet subscribers



1.51 In wireless internet segment, Reliance Jio holds 51.11% market share with 413.01 million subscribers followed by Bharti Airtel Ltd with 29.08% and 235.01 million wireless internet subscribers at the QE Jun-22.

Chart 1.19 : Composition of Wireless Internet subscription

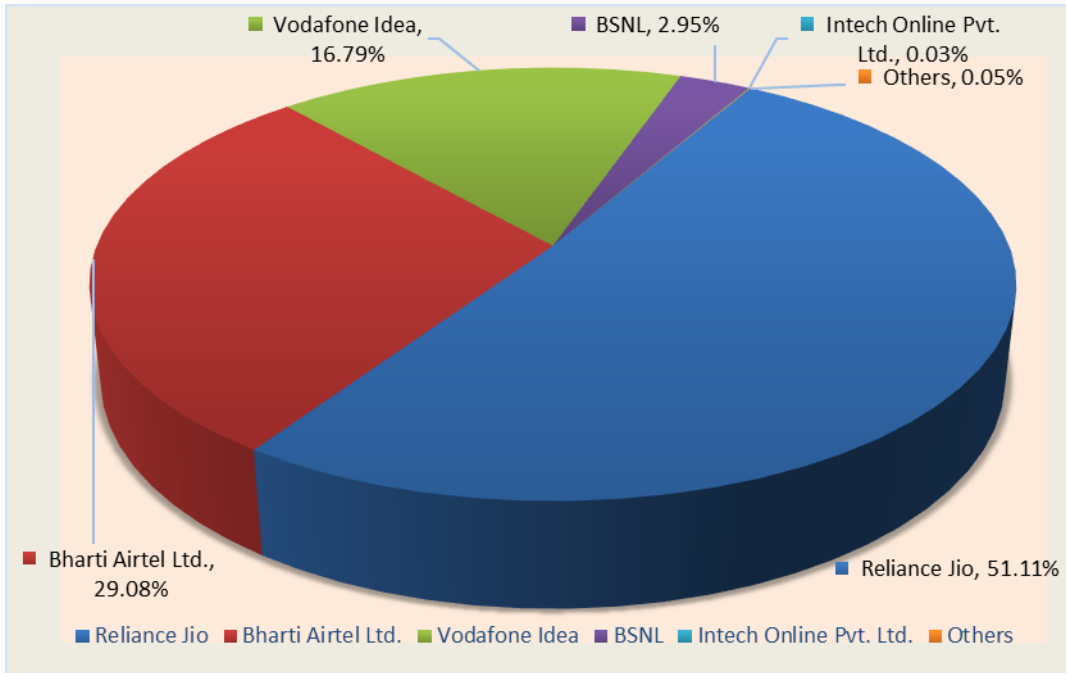


Chart 1.20 : Technology trend for Wireless Internet Access

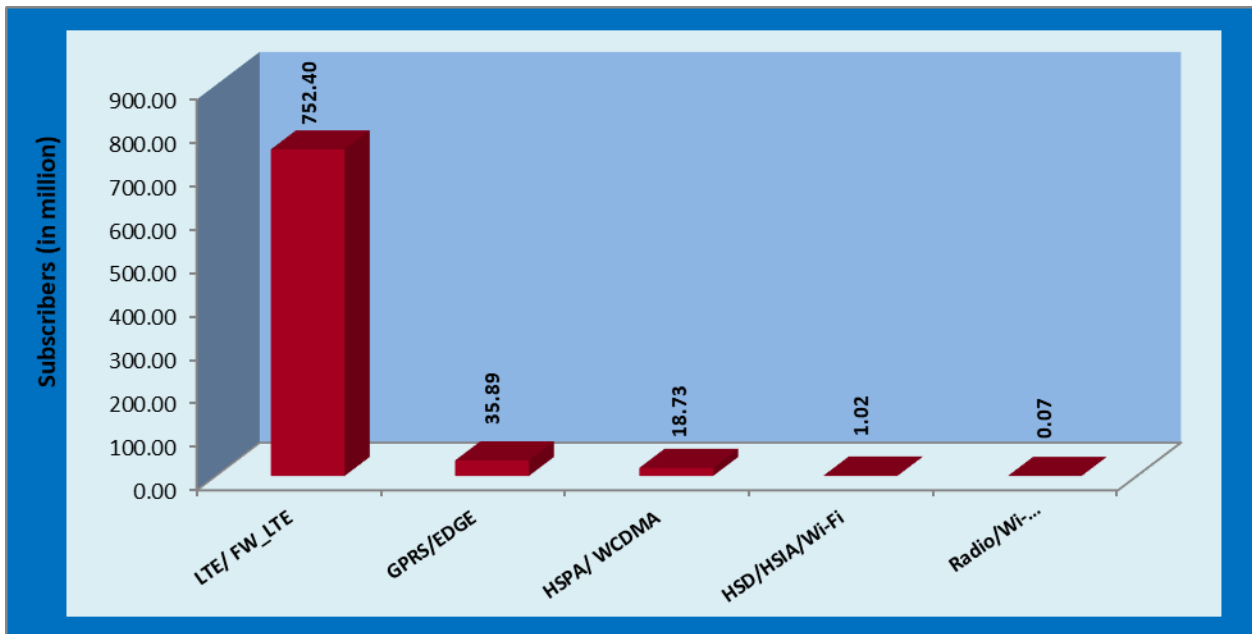
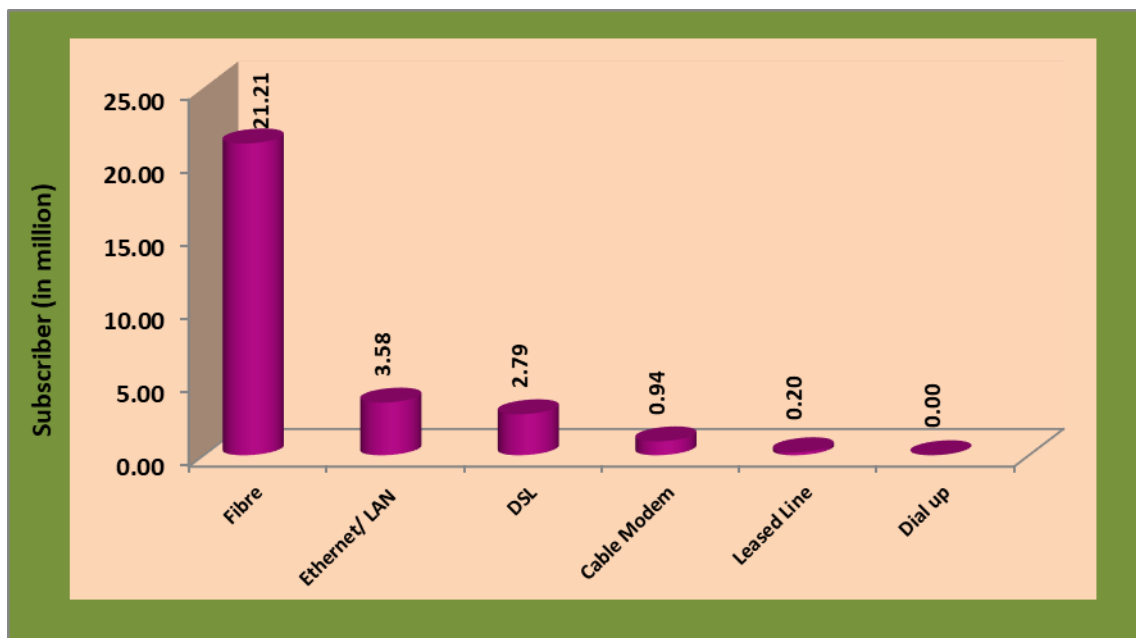


Chart 1.21: Technology trend for Wired Internet Access



1.52 Top five service areas in terms of internet subscriptions (wired+wireless) are Maharashtra 71.71 million, U.P.(East) 65.62 million, Andhra Pradesh 63 million, Bihar 61.02 million and Madhya Pradesh 57.69 million.

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

Service Area	Internet Subscribers (in million)			No. of Internet subscribers per 100 population		
	Rural	Urban	Total	Rural	Urban	Total
Andhra Pradesh	27.70	35.30	63.00	51.32	95.08	69.16
Assam	9.87	6.32	16.19	32.89	115.02	45.61
Bihar	38.92	22.10	61.02	27.98	86.52	37.06
Delhi	0.79	47.30	48.09	-	-	227.96
Gujarat	16.67	34.78	51.46	45.26	98.54	71.33
Haryana	8.06	10.44	18.50	46.15	83.52	61.73
Himachal Pradesh	3.67	2.29	5.96	54.94	299.19	80.07
Jammu & Kashmir	4.05	4.86	8.91	42.00	115.67	64.37
Karnataka	18.38	30.77	49.14	48.76	103.52	72.90
Kerala	14.29	16.37	30.66	153.49	61.92	85.77
Madhya Pradesh	24.19	33.51	57.69	29.16	101.84	49.80

Service Area	Internet Subscribers (in million)			No. of Internet subscribers per 100 population		
	Rural	Urban	Total	Rural	Urban	Total
Maharashtra	30.35	41.36	71.71	48.05	113.24	79.79
Mumbai	1.04	28.82	29.86			
North East	4.66	4.38	9.04	45.31	81.60	57.76
Orissa	14.02	7.22	21.24	39.04	87.09	48.05
Punjab	8.58	17.42	26.00	48.01	124.91	81.71
Rajasthan	21.39	23.12	44.51	36.19	108.37	55.33
Tamil Nadu	15.67	40.81	56.48	43.23	96.96	72.10
UP (East)	36.90	28.73	65.62	29.61	90.67	44.56
UP (West)	18.04	25.80	43.84			
Kolkata	1.24	16.64	17.88	34.86	98.11	58.02
West Bengal	20.83	19.23	40.05			
Total	339.30	497.56	836.86	37.86	103.27	60.73

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

Notes:

1. No. of total internet subscribers per 100 population is derived from the subscriber data provided by the operators and the 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. 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 Jun-22

S.N.	State(s)	Total Subscribers (In million)			Tele-density (%)		
		Rural	Urban	Total	Rural	Urban	Total
1	Andhra Pradesh	16.20	15.98	32.18	47.79	83.53	60.68
2	Arunachal Pradesh	0.45	0.33	0.78	38.83	84.57	50.48
3	Assam	9.87	6.32	16.19	32.89	115.02	45.61
4	Bihar	29.82	14.51	44.33	27.07	94.52	35.31
5	Chattisgarh	7.20	8.07	15.27	32.90	100.08	50.97
6	Goa	0.63	1.24	1.87	160.68	105.23	119.04
7	Gujarat	16.44	34.42	50.86	44.91	100.26	71.70
8	Haryana	8.11	13.45	21.56	46.42	107.63	71.95
9	Himachal Pradesh	3.67	2.29	5.96	54.94	299.05	80.06
10	Jharkhand	9.10	7.60	16.69	31.44	74.48	42.66
11	Karnataka	18.38	30.77	49.14	48.76	103.52	72.91
12	Kerala	14.21	16.37	30.58	152.61	62.07	85.70
13	Madhya Pradesh	16.98	25.45	42.44	27.82	102.47	49.41
14	Maharashtra	30.77	68.91	99.68	47.38	113.35	79.27
15	Manipur	0.85	1.18	2.03	39.29	114.22	63.45
16	Meghalaya	1.12	0.68	1.80	42.38	99.38	54.14
17	Mizoram	0.46	0.63	1.09	82.48	94.01	88.80
18	Nagaland	0.87	0.62	1.49	71.09	62.47	67.22
19	Odisha	14.02	7.22	21.24	39.04	87.09	48.05
20	Punjab	8.55	16.66	25.22	47.83	130.97	82.40
21	Rajasthan	21.39	23.11	44.50	36.19	108.34	55.32
22	Sikkim	0.37	0.36	0.72	102.39	109.25	105.66
23	Tamil Nadu incl. Chennai	15.43	40.39	55.82	43.15	98.64	72.77
24	Telangana	11.49	19.32	30.82	57.29	107.35	80.97
25	Tripura	0.91	0.96	1.87	35.89	60.35	45.30
26	Uttar Pradesh (UPE+UPW)	51.04	53.34	104.38	28.66	95.21	44.59
27	Uttarakhand	3.90	4.44	8.34	52.44	107.85	72.16
28	West Bengal incl. Kolkata	21.50	35.27	56.78	34.29	97.82	57.49
Union Territories							
1	Andaman & Nicobar Islands	0.19	0.23	0.42	84.30	130.62	104.56
2	Chandigarh	0.03	0.76	0.79	-	-	64.97
3	Dadar & Nagar Haweli (incl. Daman & Diu)	0.23	0.36	0.59	99.86	37.26	49.46
4	Delhi	0.74	41.04	41.78	-	-	198.03
5	Jammu & Kashmir	3.89	4.83	8.72	41.31	117.39	64.42
6	Ladakh	0.15	0.03	0.19	73.01	37.44	62.21
7	Lakshdweep	0.08	0.00	0.08	-	-	123.82
8	Puduchery	0.24	0.41	0.66	49.68	36.48	40.43
Total		339.30	497.56	836.86	37.86	103.27	60.73

ISP Connectivity

1.53 The International Internet bandwidth owned by various service providers is reported to be 34486 Gbps during the quarter ending Jun-22 as compared to 27,468 Gbps during the previous quarter.

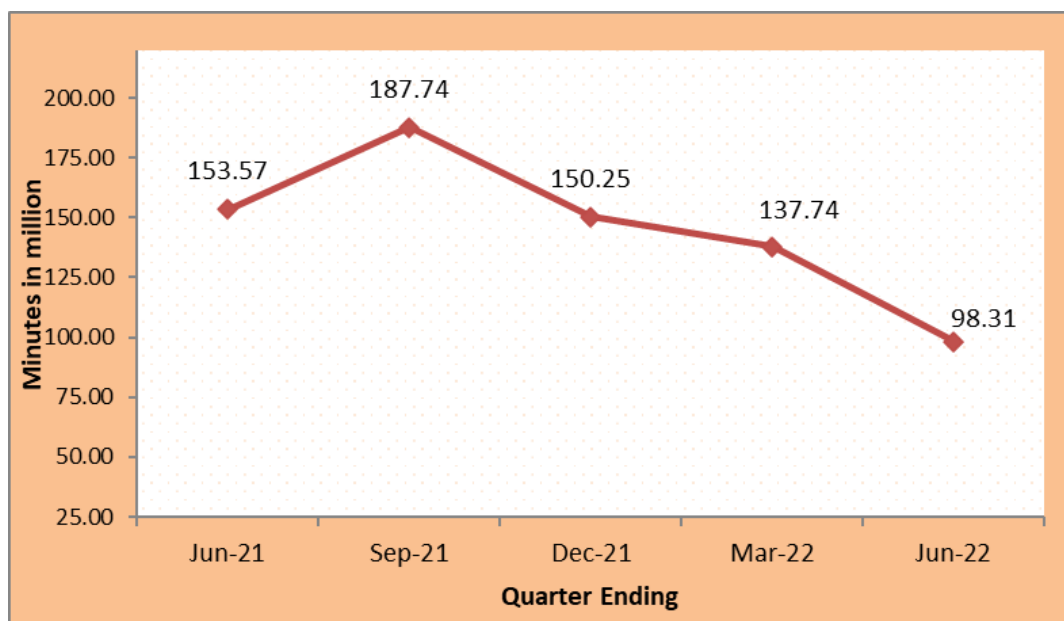
Public WiFi Hotspot

1.54 A public Wi-Fi hotspot is an area where you can access Wi-Fi enabled internet. These areas are usually created in places such as malls, coffee shops, airports, stadiums, and parks to name a few. This report also includes information on Public Wi-Fi Hotspots, as on 30th June 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 137.74 million minutes at the end of Mar-22 to 98.31 million minutes at the end of Jun-22. List of Internet Telephony Service providers is available at **Annexure-1.7**.

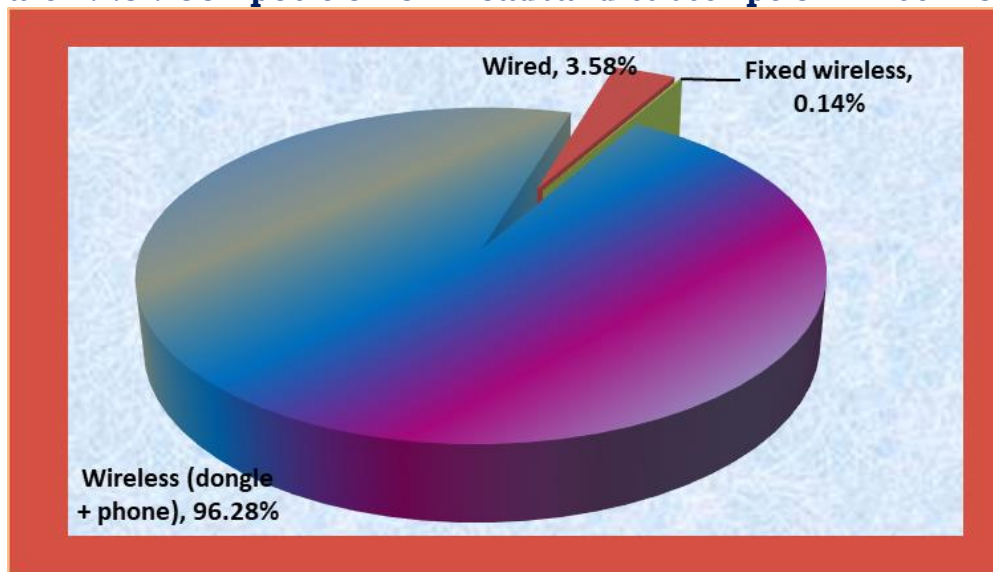
Chart 1.22 : Trends in MOU for Internet Telephony



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

- 1.56 The total number of broadband subscribers increased from 788.30 million at the end of Mar-22 to 800.94 million at the end of Jun-22. Out of which number of wired broadband subscribers are 28.71 million and wireless broadband subscribers are 772.23 million.
- 1.57 Top five broadband (wired+wireless) service providers in term of subscribers are Reliance Jio 419.17 million, Bharti Airtel 219.41 million, Vodafone Idea Ltd 122.96 million, BSNL 25.02 million and Atria Convergence 2.11 million.
- 1.58 In wired broadband segment, Reliance Jio Infocomm Ltd. holds 21.45% market share with 6.16 million subscribers followed by Bharti Airtel Ltd. with 4.85 million subscribers in QE Jun-22.
- 1.59 In wireless broadband segment, Reliance Jio holds 53.48% market share with 413.01 million subscribers followed by Bharti Airtel Ltd 27.78% with 214.56 million subscribers in QE Jun-22.
- 1.60 Top five service areas in respect of broadband subscriptions at Q.E. Jun-22 are Maharashtra 69.46 million, U.P.-East 62.09 million, Andhra Pradesh 60.23 million, Bihar 58.24 million and Madhya Pradesh 55.81 million.

Chart 1.23 : Composition of Broadband subscription – Technology wise



1.61 Mobile Device Users (dongle+phone) constitute 96.28% of total broadband subscribers at the end of Jun-22.

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

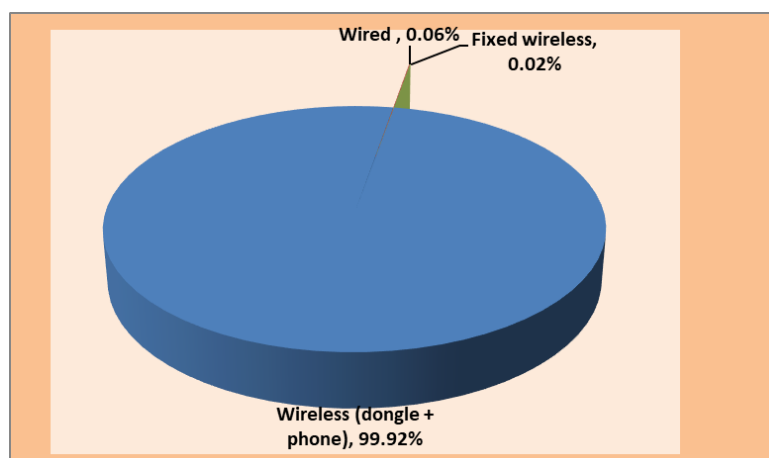
1.62 Total number of narrowband subscribers decreased from 36.59 million at the end of Mar-22 to 35.92 million at the end of Jun-22 with the quarterly decline rate of 1.84%. Out of 35.92 million narrowband subscribers, Wired Narrowband subscribers are 0.02 million and Wireless Narrowband subscribers are 35.90 million.

1.63 The top five narrowband (wired+wireless) service providers in term of subscriber base are Bharti Airtel 20.45 million, Vodafone Idea Ltd 12.70 million, BSNL 2.66 million, MTNL 0.08 million and YOU Broadband India Ltd. 0.01 million at the end of Jun-22.

1.64 In wired narrowband segment, YOU Broadband India Ltd. hold 69.16% market share with 0.014 million subscribers followed by Broadband Pacenet (I) Pvt. Ltd. with 0.002 million subscribers.

1.65 In wireless narrowband segment, Bharti Airtel holds 56.97% market share with 20.45 million subscribers followed by Vodafone Idea Ltd with 12.70 million subscribers.

Chart 1.24 : Composition of Narrowband subscription – Technology wise



Section E : Other Value Added Services - PMRTS & VSAT

Public Mobile Radio Trunk Services (PMRTS)

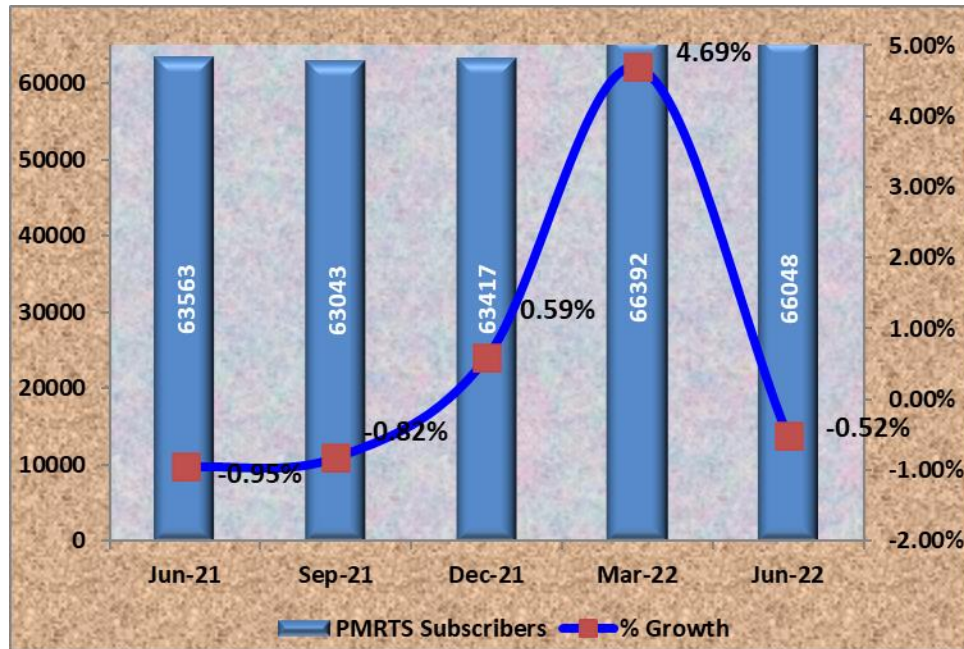
1.66 The subscriber base of PMRTS decreased from 66,392 at the end of Mar-22 to 66,048 at the end of Jun-22 with quarterly decline rate of 0.52%.

Table 1.34 : PMRTS Subscriber base - Service Provider wise

Sl. No	Name of the Service Provider	Subscriber Base as on 31.03.2022	Subscriber Base as on 30.06.2022	Net Addition	% Growth in subscribers in QE Mar-22
1	Arya Omnitalk Radio Trunking Services Pvt. Ltd.	54,838	54,004	-834	-1.52
2	Procall Ltd.	3,510	4,178	668	19.03
3	Quick Call	2,033	1,973	-60	-2.95
4	Inative Networks Pvt Ltd	1,820	1,820	0	0.00
5	Smartalk Pvt Ltd	1,699	1,601	-98	-5.77
6	Bhilwara Telenet Services Pvt Ltd	926	876	-50	-5.40
7	Wiwonet Solutions Pvt Ltd	1,041	1,046	5	0.48
8	Airtalk Solutions & Services Pvt Ltd	525	550	25	4.76
Total		66,392	66,048	-344	-0.52

1.67 Detailed table on Service Area wise subscriber base of PMRTS as on 30th June, 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 2,79,333 at the end of Mar-22 to 2,76,971 at the end of Jun-22. Net decrease during the quarter has been 2,362 at the decline rate of 0.85%.

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

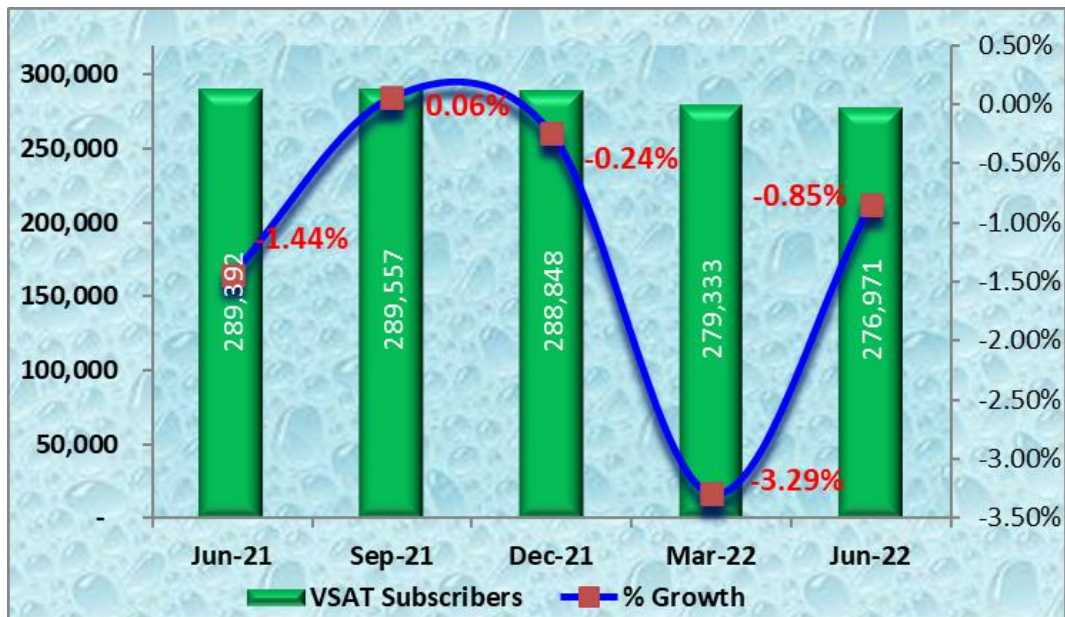


Table 1.35 : VSAT Service Providers currently providing service & their subscriber base

Sr. No	Name of Service Providers	Subscriber base at the Quarter ending		Net Addition	%age Growth	Market Share (%) Jun-22
		Mar-22	Jun-22			
1	Hughes Communications Ltd.	194,823	192,889	-1934	-0.99	69.64
2	Nelco Ltd.	74,710	74,782	72	0.10	27
3	BSNL	7,122	6,577	-545	-7.65	2.37
4	HCL Comnet	63	63	0	0.00	0.02
5	Infotel Satcom	2,565	2,610	45	1.75	0.94
6	Cloudcast Digital (earthwhile Planetcast Media Services)	50	50	0	0.00	0.02
Total		2,79,333	2,76,971	-2,362	-0.85%	100

1.69 Hughes Communications Ltd. is the market leader having 192,889 subscribers with market share of 69.64% followed by Nelco Ltd. having 74,782 subscribers with market share of 27% at the end of Jun-22.

1.70 In term of net addition, Nelco added maximum number of VSAT subscribers 72 subscribers during the QE Jun-22. Hughes Communications Ltd. and BSNL have registered decline in their VSAT subscribers during this quarter.

Chapter 2 :

Revenue and Usage

Wireless Services

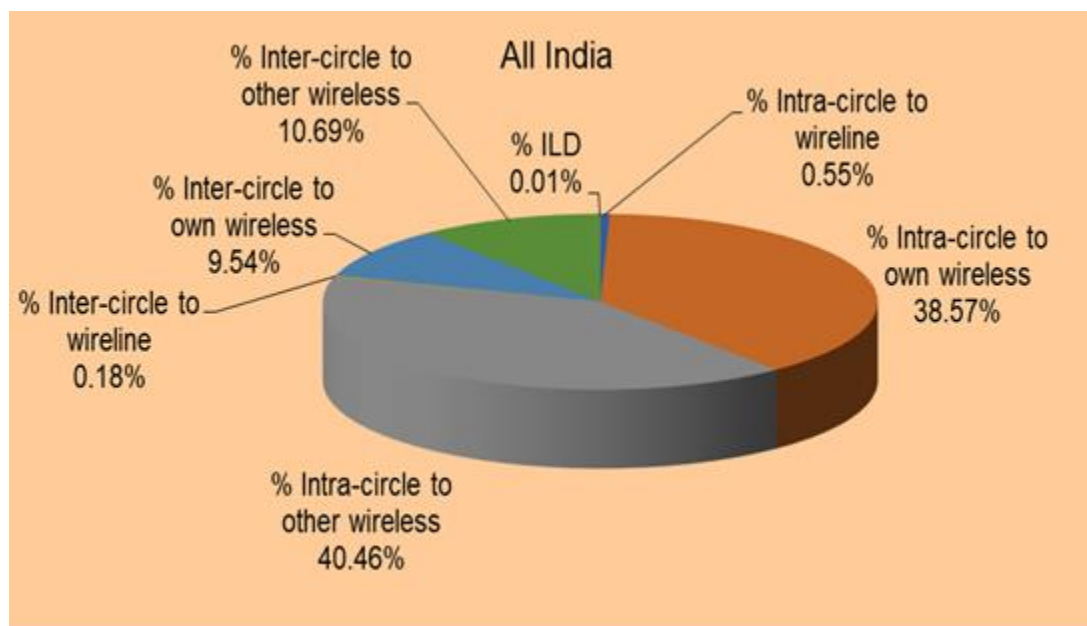
-
- For all the parameters, Metros indicate data for Delhi, Mumbai & Kolkata. Data for Chennai service area has been included in Circle A, as part of TN.
 - ARPU arrived after adjusting interconnect usage charges and roaming settlement charges.
 - The data contained in this section covers the licensees,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

Table 2.1: Key Indicators – Wireless Services

Parameter	Jun-22	Mar-22	Jun-21	QoQ %age change	YoY %age change
Share of Prepaid (%)	92.74%	93.05%	94.81%	-0.33%	-2.18%
Incoming MOU per subscriber per month	456.93	447.23	405.43	2.17%	12.70%
Outgoing MOU per subscriber per month	456.64	508.19	407.40	-10.14%	12.09%
No. of Outgoing SMS per subscriber per month	14.31	13.46	15.13	6.30%	-5.42%
Average Revenue Per User (ARPU) per month (Rs.)	133.55	127.17	104.66	5.02%	27.61%

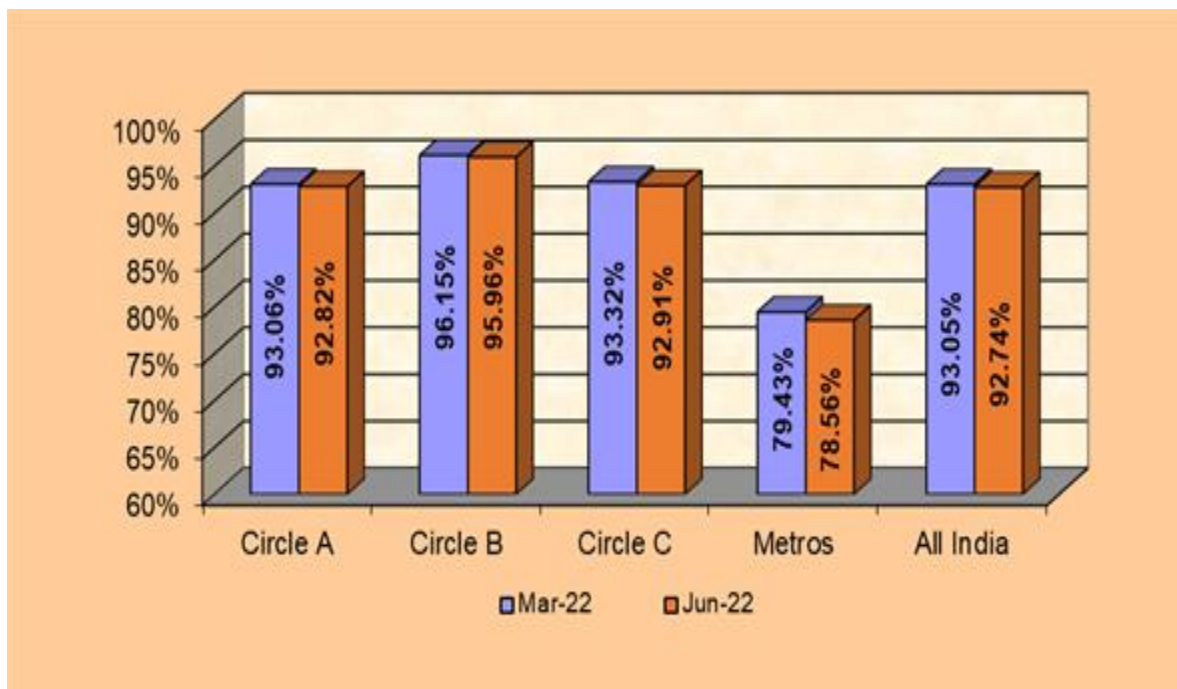
2.1 The following chart presents % break-up of outgoing minutes from Home Service Area (HSA) in the QE Jun-22.

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 93.05% at the end of March - 2022 to 92.74% at the end of June - 2022.
- 2.4 The ARPU per month (all India blended) increased from Rs.127.17 in QE Mar-22 to Rs.133.55 in QE Jun-22 with quarterly growth rate of 5.02%. Year-on-Year basis, ARPU per month increased by 27.61% in this quarter.
- 2.5 The ARPU per month for the pre-paid segment is Rs. 128.66 and the ARPU per month for the post-paid segment is Rs. 197.55 for Q.E. June- 2022.
- 2.6 The following table presents the ARPU per month for various categories of circles and various platforms for payment viz. post-paid and pre-paid.

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

Circle Category	ARPU per month (in Rs.)		
	Post-paid	Pre-paid	Blended
Circle A	235.68	146.21	152.53
Circle B	180.03	121.25	123.56
Circle C	181.12	127.24	130.96
Metros	175.46	97.54	113.88
All India	197.55	128.66	133.55
All private SPs	201.94	138.09	142.88
BSNL/MTNL	117.18	48.48	50.97

2.7 The following table presents the composition of ARPU per month for QE Jun-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	0.6%
1.2.	Revenue from calls	15.01	10.8%
1.3.	Revenue from SMS	0.20	0.1%
1.4.	Revenue from data usage	118.20	84.9%
1.5.	Revenue from other VAS	1.34	1.0%
1.6.	Other revenue	2.53	1.8%
2	Usage outside Home Service Area		
2.1.	Revenue from out-roamers	1.12	0.8%
3	Total revenue from subscribers (1+2)	139.20	100%
4	Net inter-operator settlement charges receivable *	-5.65	
5	Net Revenue (ARPU) per month (3+4)	133.55	

* includes Interconnect Usages Charges and roaming settlement charges

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

- 2.8 From the above table, it may be seen that the net inter-operator settlement charges payable (Rs. 5.65) accounted for 4.06% of the total revenue from subscribers in the Q.E. June- 2022.
- 2.9 On an all-India average, the overall MOU per subscriber per month decreased by 4.38% from 955 in Q.E. March-2022 to 914 in Q.E. June-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. Jun-22.

Table 2.4: MOU per subscriber per month - QE Jun-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	309	284	593	423	416	839	415	407	822
Circle B	403	375	778	454	464	918	452	460	912
Circle C	466	410	876	571	600	1171	564	587	1151
Metro	212	183	395	510	469	979	448	409	856
All India	326	295	621	467	469	936	457	457	914

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

- 2.11 overall ratio of incoming MOUs and outgoing MOUs for the Q.E. June - 2022 is 50:50.
- 2.12 Average number of Outgoing SMS per subscriber per month is 14 in Q.E. June-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. June - 2022.

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

Circle category	Outgoing SMS per subscriber per month		
	Post-paid	Pre-paid	Blended
Circle A	71	13	17
Circle B	12	11	11
Circle C	15	17	17
Metro	18	11	12
All India	34	13	14

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

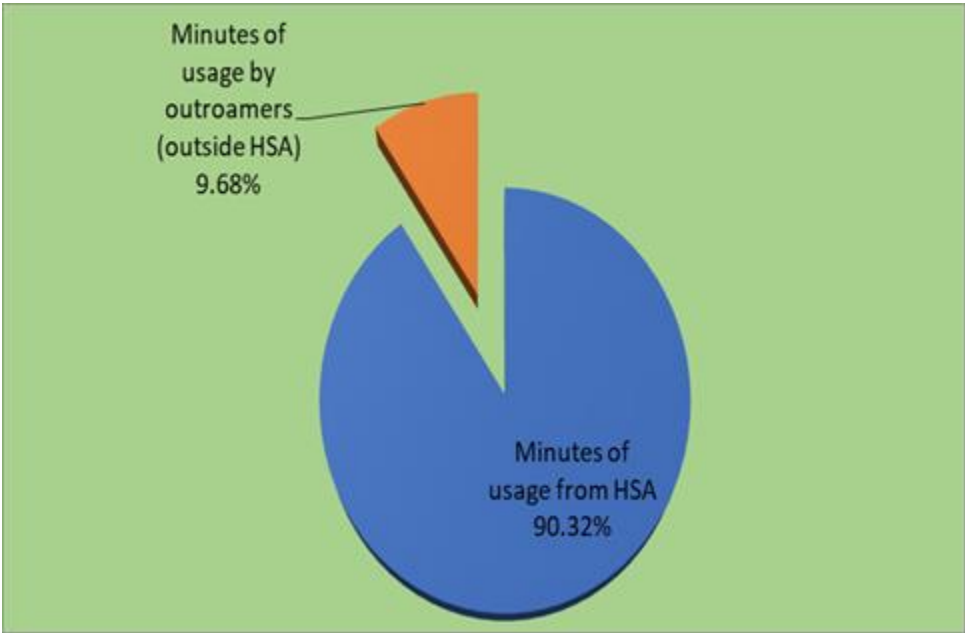
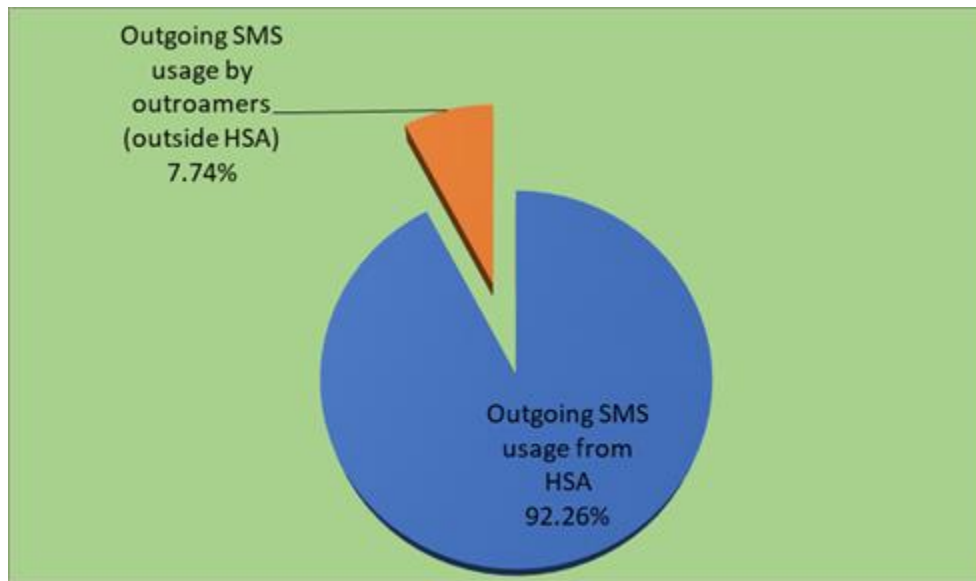


Chart 2.4: Outgoing SMS Usage by Out-roamers as a % of Total No. of Outgoing SMS Usage during Q.E. Jun-2022



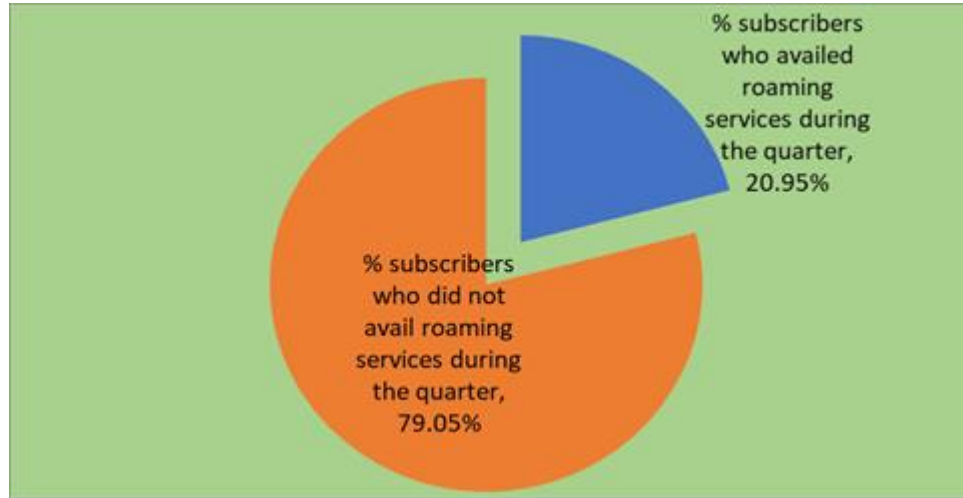
2.13 The following table presents the percentage break-up of outgoing minutes of usage from home service area between various categories of termination networks in the Q.E. Jun-22.

Table 2.6: % Break-up of Outgoing minutes from Home Service Area (HSA) during the Q.E. Jun-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	0.57	40.61	45.09	0.16	6.36	7.19	0.02
Circle B	0.53	37.82	41.31	0.17	9.34	10.83	0.01
Circle C	0.40	41.60	34.70	0.18	11.53	11.58	0.00
Metros	0.89	27.91	32.13	0.35	17.77	20.92	0.04
All India	0.55	38.57	40.46	0.18	9.54	10.69	0.01

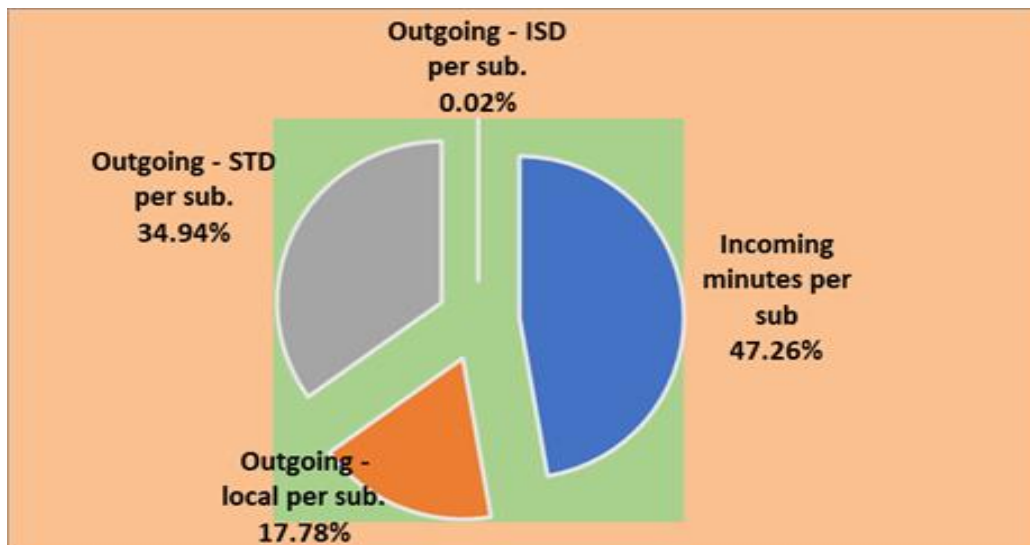
2.14 The following chart presents the share of outroamers (who had availed roaming services) as a percentage of total subscribers during Q.E. Jun-22.

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



2.15 The usage pattern of outroamers i.e. usage from outside the home service area shows that incoming minutes accounts for 47.26% of the total minutes of usage by outroamers in Q.E. June - 2022 as against 46.83% in the Q.E. March- 2022. The chart given below presents the break-up of minutes of usage of outroamers.

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



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

Average Revenue per Outgoing Minute of usage from HSA

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

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

(In Rs. per minute)

Circle Category	Postpaid	Prepaid	Blended
Circle A	0.04	0.04	0.04
Circle B	0.02	0.04	0.04
Circle C	0.01	0.03	0.03
Metros	0.05	0.03	0.03
All India	0.03	0.04	0.04

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

Table 2.8: Trends of Key Parameters - Wireless Services

Parameter	Jun-21	Sep-21	Dec-21	Mar-22	Jun-22
1. ARPU (Rs. Per month)	104.66	108.16	114.16	127.17	133.55
2. Average revenue Realization per subscriber per GB wireless data (in Rs.)	9.80	9.53	9.91	10.47	10.29
3. MOU per subscriber per month	813	827	854	955	914
4. Outgoing MOU per subscriber per month					
4.1 Local (Intra-circle)	313	312	319	332	342
4.2 NLD (inter-circle)	94	102	108	176	115
4.3 ILD	0.05	0.05	0.05	0.05	0.05
5. Average no. of Outgoing SMS per subscriber per month	15	15	14	13	14
6. Average revenue per outgoing minute from HSA (in Rs.)	0.04	0.04	0.04	0.03	0.04

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

Chapter 3 :

Financial Data of Telecom Service Sector

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

Particulars	QE Jun-21 (Rs. in Crore)	QE Mar-22 (Rs. in Crore)	QE Jun-22 (Rs. in Crore)	Q-O-Q % Change	Y-O-Y % Change
Gross Revenue (GR)	64,801	76,420	76,408	-0.01	17.91
Adjusted Gross Revenue (AGR)	51,335	58,886	60,530	2.79	17.91
Pass Through Charges (PTC)	13,466	13,568	13,415	-1.12	-0.38
License Fee (LF)	4,103	4,712	4,844	2.79	18.05
Spectrum Usage Charges (SUC)	1,646	1,926	1,999	3.79	21.47

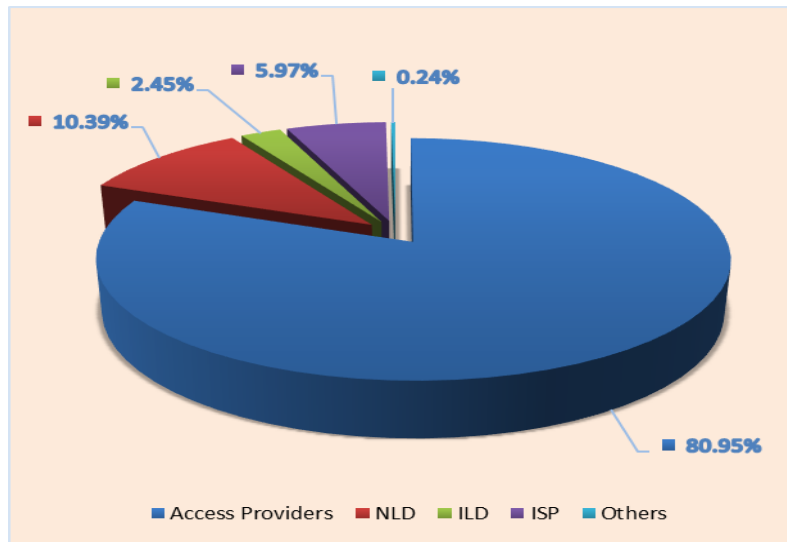
- 3.1 Gross Revenue (GR) decreased by -0.01% and Adjusted Gross Revenue (AGR) increased by 2.79% during QE Jun-22. On YoY basis GR increased by 17.91% and AGR increased by 17.91% in QE Jun-22.
- 3.2 Pass through charges decreased by 1.12% in QE Jun-22, and on YoY basis also it decreased by 0.38%.
- 3.3 Pass-through charges as a percentage of Gross Revenue are 17.56% in QE Jun-22 as against 17.75% in the previous quarter.

Table 3.2: Service-wise Gross Revenue, Adjusted Gross Revenue, License Fee, Spectrum Charges and PTC for QE Jun-22

(in Rs. Crore)

Service	GR	AGR	LF	SUC	PTC
Access Providers	60,735.21	48,999.24	3,920.49	1,995.10	10,266.07
NLD	7,242.60	6,289.65	503.17	-	183.14
ILD	3,367.35	1,481.81	120.40	-	1,813.83
ISP	4,902.14	3,615.16	289.21	-	1,146.87
Others	160.92	143.85	10.39	4.08	5.15
Total	76,408.23	60,529.71	4,843.66	1,999.18	13,415.06

Chart 3.1: Composition of Adjusted Gross Revenue



3.4 Access services contributed 80.95% of the total Adjusted Gross Revenue of telecom services. In Access services, Gross Revenue (GR), Adjusted Gross Revenue (AGR), License Fee (LF), Pass Through Charges (PTC) and Spectrum Usage (SUC)⁹ increased by 1.67%, 5.55%, 5.53%, -3.41%, and 3.82% respectively in QE Jun-22.

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

Service Provider	Q.E. June 2021	Q.E. March 2022	Q.E. June 2022	Q-o-Q Growth (%)	Y-o-Y Growth (%)
Reliance Jio	17843.56	20659.90	21515.88	4.14	20.58
Bharti Airtel	13696.06	16005.16	17140.56	7.09	25.15
Vodafone Idea	6238.18	7209.57	7356.54	2.04	17.93
BSNL	2122.75	1750.58	2177.95	24.41	2.60
Tata	551.90	533.74	533.01	-0.14	-3.42
MTNL	326.70	183.24	213.67	16.61	-34.60
Reliance	60.43	68.80	43.11	-37.33	-28.66
V-Con Mobile & Infra	0.20	14.69	11.39	-22.46	5536.53
Quadrant	0.67	-5.53	6.41	215.88	860.75

⁹ 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)

Tata Play Broadband	0.00	0.95	0.60	-36.62	0.00
Shyam Spectra	0.00	0.00	0.10	0.00	0.00
Fusion Net	0.00	0.00	0.01	669.61	0.00
Total	40,840.46	46,421.09	48,999.24		

3.5 Public Sector Undertakings' share in the Access AGR of telecom services is 4.88% in the QE Jun-22.

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

Category	AGR of Access Services for QE Jun-22 (in crore)	%age share of AGR
Metro	5,022.74	10.25
A	18,512.57	37.78
B	18,276.08	37.30
C	7,187.86	14.67
Total	48,999.24	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

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. N.	Parameters	Benchmark	Performance in respect of UASL/CMTS Licensees for the Parameters and Benchmarks			
			For Quarter Ending March, 2022		For Quarter Ending June, 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%	0	0%	0	0%
(ii)	Network QoS DCR Temporal Distribution Measure [Network_QTD (97,90)]	≤ 3%	0	0%	0	0%
4	Connections with good voice quality, Circuit Switched Voice Quality and VoLTE quality					
5	Point of Interconnection (POI) Congestion (No. of POIs not meeting the benchmark)					
		≤ 0.5%	0	0%	0	0%

	(Averaged over a period of quarter)					
6	Down Link (DL) Packet Drop Rate or DL-PDR	≤ 2%	0	0%	0	0%
7	Up Link (UL) Packet Drop Rate or UL-PDR	≤ 2%	0	0%	0	0%
II.	Customer Service Quality Parameters					
8	Metering and Billing					
(i)	Metering and billing credibility - post paid	≤ 0.1%	0	0%	0	0%
(ii)	Metering and billing credibility – prepaid	≤ 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	≥ 95%	2	2.27%	2	2.27%
(ii)	% age of calls answered by the operators (voice to voice) within 90 seconds	≥ 95%	8	9.09%	8	9.09%
10	Termination / closure of service					
(i)	%age requests for Termination / Closure of service complied within 7 days	100% within 7 days	0	0%	0	0%
(ii)	Time taken for refund of deposits after closures	100% within 60 days	0	0%	0	0%

4.1 Comparison of Performance with the last quarter: -

From above table 4.1, it is observed that performance in all the parameters remain same i.e. neither performance has improved nor deteriorated in this quarter as compared to the previous quarter.

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

Parameter	Benchmark	Service Provider	Service Area	Performance in QE June 2022 (in %)
Accessibility of call centre/ customer care	=> 95%	BSNL	Karnataka	87.46
			Tamilnadu including Chennai	92.03
AIRTEL		Kerala	92.91	
		Kolkata	94.59	
		North East	93.33	
		West Bengal	93.09	
Percentage of calls answered by the operators (voice to voice) within 90 seconds		BSNL	Andhra Pradesh	57.64
			Karnataka	62.91
			Kerala	45.20
			Tamilnadu including Chennai	63.28

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

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

Table 4.3: QoS Summary - Wireline Service

Summary of Performance of service providers against identified parameters

Sr. No.	Parameters	Benchmark	No of license areas where operators not meeting the benchmarks			
			March, 2022		June, 2022	
			Out of 102 In Nos.	Out of 102 In %age	Out of 104 In Nos.	Out of 104 In %age
(i)	Fault incidences No. of faults per 100 subs/month)	≤ 7	0	0.00%	0	0.00%
(ii)	% Fault repaired by next working day (for urban areas)	≥ 85%	2	1.96%	2	1.92%
	% Fault repaired within 5 days (for urban areas)	≥100%	2	1.96%	2	1.92%
(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	2	1.96%	2	1.92%
(v)	Point of Interconnection (POI) Congestion (No. of PoIs not meeting benchmark)	≤ 0.5%	0	0.00%	0	0.00%
(vi)	Metering and Billing credibility - post-paid	≤ 0.1%	0	0.00%	0	0.00%
	Metering and Billing credibility -pre-paid	≤ 0.1%	0	0.00%	0	0.00%
(vii)	Resolution of billing/charging /Credit & validity complaints	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)	Accessibility of call centre/ customer care	≥ 95%	0	0.00%	0	0.00%
	%age of calls answered by the operators (voice to voice) within 90 seconds	≥ 95%	2	1.96%	0	0.00%
(x)	%age of request for Termination / closure of service complied within 7 days	100% within 7 days	2	1.96%	2	1.92%
(xi)	Time taken for refund of deposits after closures	100% within 60 days	4	3.92%	4	3.85%

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

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

- i. %age of calls answered by the operators (voice to voice) within 90 seconds $\geq 95\%$

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

- i. “It is further observed from the above Table 4.3, that no case of deterioration of any parameter observed in QE June 2022.

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

Parameter	Benchmark	Service Provider	Service Area	Parameters not met
% of faults repaired by next working day - Urban	For urban areas by next working day ≥ 85	MTNL	Delhi	81.33 %
			Mumbai	57.80 %
% of faults repaired within 5 days - Urban	For urban areas ≥ 100	MTNL	Delhi	95.50 %
			Mumbai	79.00 %
Mean Time to Repair (MTTR)	≤ 10 hrs	MTNL	Mumbai	34.96
		TATA	Karnataka	10.76
%age requests for Termination / Closure of service complied within 7 days	100% within 7 days	MTNL	Mumbai	99.84 %
		TATA	Karnataka	99.86 %
Time taken for Refund of deposits after closures- within 60 days	100% within 60 days	BSNL	Himachal Pradesh	95.60 %
			Punjab	99.00 %
			Rajasthan	0.00 %
		MTNL	Mumbai	10.01 %

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

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

- 4.6 There are 625 Service Providers providing broadband (wireline) service at the end of June, 2022. Total number of broadband (wireline) subscriber base of all the broadband service providers is 2,87,07,464 in quarter ending June, 2022 as compared to 2,72,46,440 in quarter ending March, 2022.
- 4.7 Out of 625 broadband service providers providing broadband (wireline) service, only 77 service providers are having subscriber base more than 10,000 subscribers and share 97.79% 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 2,66,39,690 at the end of March, 2022 (for 80 service providers) to 2,80,72,052 at the end of June, 2022 (for 77 service providers).
- 4.8 This report covers performance of 76 broadband service providers' vis-à-vis the QoS benchmarks prescribed by TRAI. Service providers namely M/s. Digital Satellite Connect Pvt. Ltd., has not submitted their Performance Monitoring Report (PMR) in this quarter. The summary of performance of the service providers who have not met the benchmarks in this quarter and performance of previous quarter is given in the table below: -

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

S.No	Parameters	Benchmarks	Quarter Ending		Quarter Ending	
			March, 2022		June, 2022	
			Out of 137	Out of 137	Out of 120	Out of 120
1	Service Provisioning/ Activation Time	100% in =< 15 working days				
1.2	%age of connections provided within 15 days of registration of demand	100%	1	0.73%	1	0.83%
2	Faults Repair/Restoration Time					
2.2	% of faults repaired by next working day	>90%	1	0.73%	1	0.83%
2.3	% of faults repaired within 3 working day	=>99%	3	2.19%	1	0.83%
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	1.46%	2	1.67%
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%	1	0.73%	2	1.67%
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%	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%
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	<120ms	0	0.00%	0	0.00%
8.2	User reference point at ISP Gateway node to International nearest NAP port abroad (terrestrial)	<350ms	0	0.00%	0	0.00%
8.3	User reference point at ISP Gateway node to International nearest NAP port abroad (satellite)	<800 ms	0	0.00%	0	0.00%

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

S. No.	Parameters		Bench- marks	Service Provider	LSA	Perform ance
1	Service Provisioning	%age of connections provided within 15 days of registration of demand	100%	MTNL	All India	96.85%
2	Fault Repair	% of faults repaired by next working day (>90%)	>90%	MTNL	All India	71.93%
		% of faults repaired within 3 working day	=>99%	MTNL	All India	79.85%
3	Billing Performance	%age of cases to whom refund of	100% within	BSNL	All India	96.25%

		deposits is made within 60 days of closures	60 days	MTNL	All India	66.53%
4	Response Time to the Customer for assistance	%age of calls answered by operator (Voice to voice) within 90 sec	>80%	Atria Convergence Technologies Ltd.	All India	69.10%
Shyam Spectra Private Limited				All India	76.45%	

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

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

Table 5.1: Key Parameters - Broadcasting & Cable TV Services

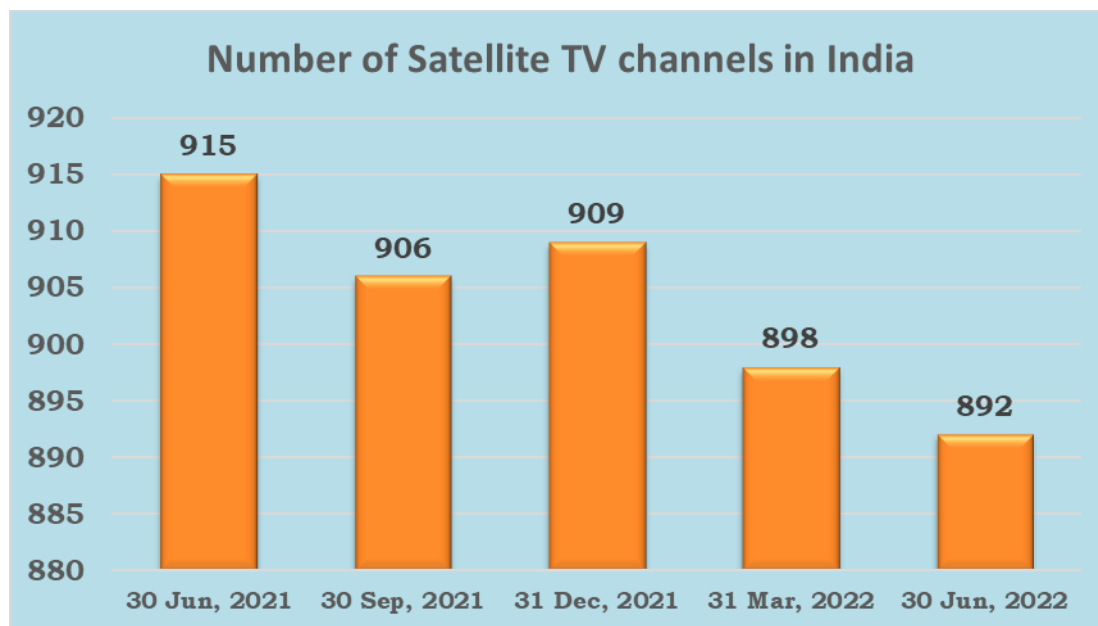
S.No	Parameter	Mar-22	Jun-22
1	Number of Private satellite TV channels permitted by the Ministry of Information and Broadcasting (MIB) for uplinking only/downlinking only/both uplinking and downlinking	898*	892*
2	Number of Pay TV Channels as reported by broadcasters	345	347
3	Total number of Multi System 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	1764#	1756#
4	Number of FM Radio Stations (excluding All India Radio)	386	388
5	Number of pay DTH Operators	4	4
6	Number of Operational Community Radio Stations	349	366
7	Number of total active Subscribers with pay DTH operators (in million)	66.92	67.04

* <https://new.broadcastseva.gov.in/digigov-portal-web-app/webHP?requestType=ApplicationRH&actionVal=userInformationSystem&screenId=2> (uploaded on 27.07.20222)
Source- https://mib.gov.in/all_broadcasting_documents

A. Satellite TV Channels

5.1 A total of approximately 892 private satellite TV channels have been permitted by the Ministry of Information and Broadcasting (MIB) for uplinking only/downlinking only/both uplinking & downlinking. The total number of satellite TV channels is depicted in **Chart 5.1**. Further, the permission-wise number of permitted satellite TV channels is given in the **Table 5.2**.

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



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

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

Type of Permission	Number of channels	Remarks
Uplinking only	13	TV channels uplinked from India but downlinked abroad only
Downlinking only	67	TV channels uplinked from abroad but downlinked only in India
Both Uplinking & downlinking	812	TV channels uplinked from India and also downlinked only in India
Total	892	

Out of 892 permitted satellite TV channels, 879 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 879 permitted satellite TV channels which are available for downlinking in India, there are 347 satellite pay TV channels as on 30th June 2022. Out of 347 pay channels, 249 are SD satellite pay TV channels and 98 are HD satellite pay TV channels. A list of pay TV channels offered by broadcasters for

subscribers as reported to TRAI is attached as **Annexure-5.1. 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

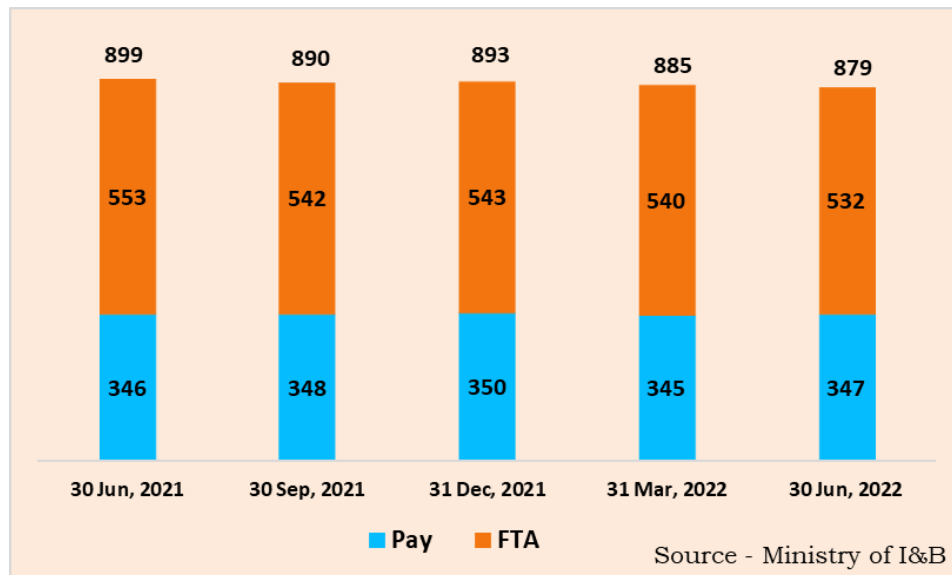
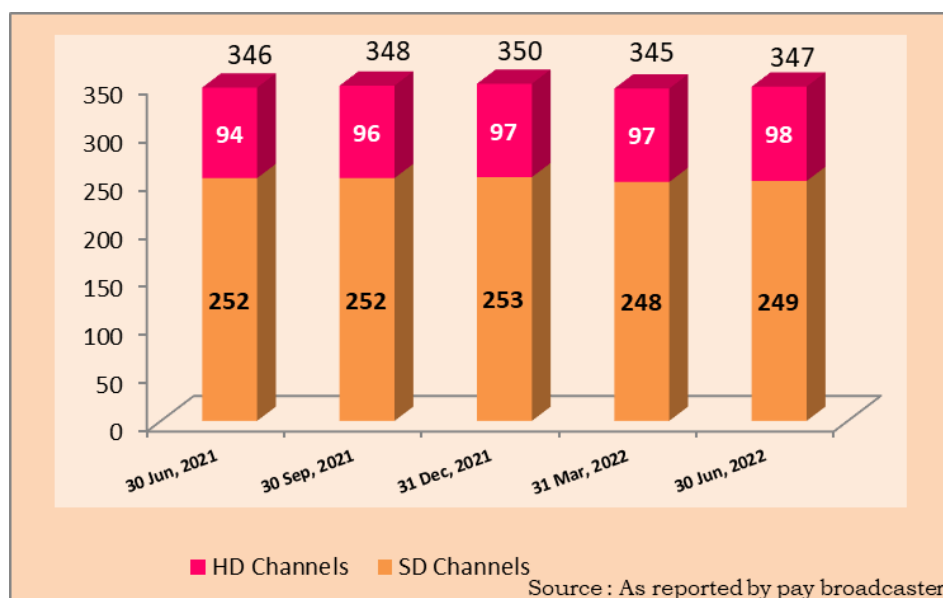


Chart 5.3 : Numbers of SD satellite pay TV channels and HD satellite pay TV channels



B. Cable TV Sector

5.3 As on 30th June 2022, there are 1756 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 June, 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	8,297,704
2.	Siti Networks Ltd	7,271,961
3.	Hathway Digital Ltd	5,521,811
4.	Den Networks Ltd	4,408,842
5.	Thamizhaga Cable TV Communication Pvt Ltd	3,840,312
6.	Kerala Communicators Cable Ltd	3,077,903
7.	Tamil Nadu Arasu Cable TV Corporation Ltd	2,545,427
8.	NXT Digital Ltd (HITS)	2,398,248
9.	KAL Cables Pvt. Ltd	2,052,728
10.	Fastway Transmissions Pvt Ltd	1,972,935
11.	V K Digital Network Pvt. Ltd	1,836,882
12.	NXT Digital Ltd (Cable TV)	1,358,881
13.	Asianet Digital Network Pvt. Ltd	1,109,618

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 30th June, 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 67.04 million. This is in addition to the subscribers of the DD Free Dish (free DTH services of Doordarshan). The total active subscriber base has increased from 66.92 million in March 2022 to 67.04 million in June 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 30th June 2022 is depicted in the following charts: -

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

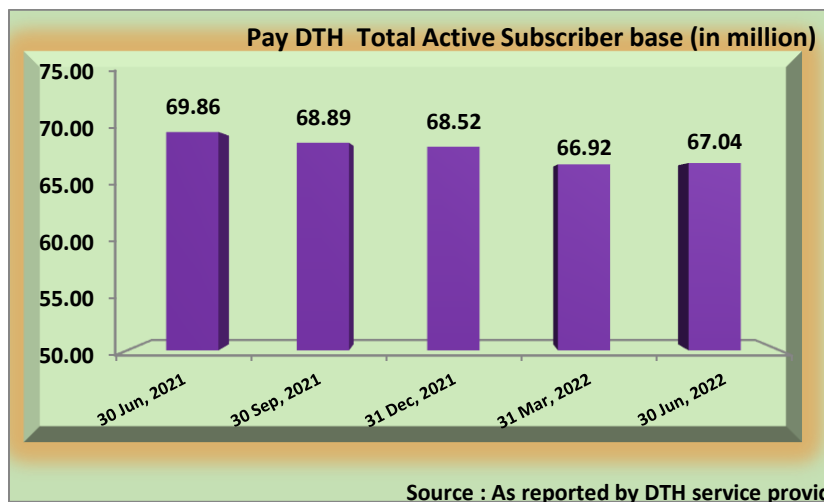
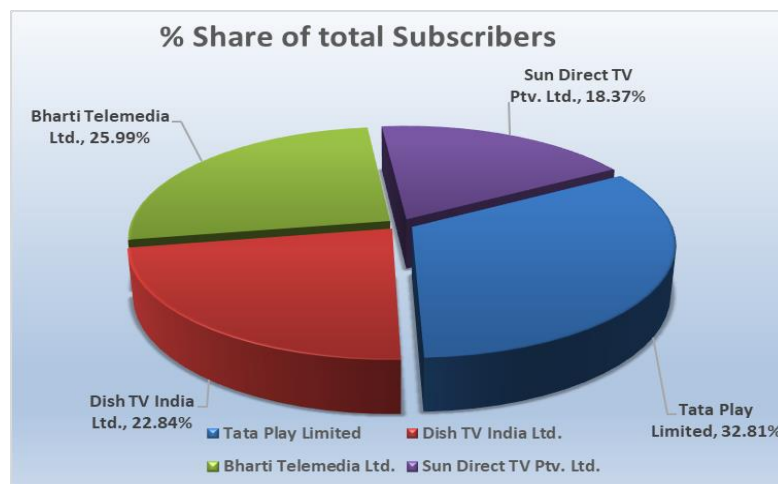


Chart 5.5 : Market share of DTH Operators



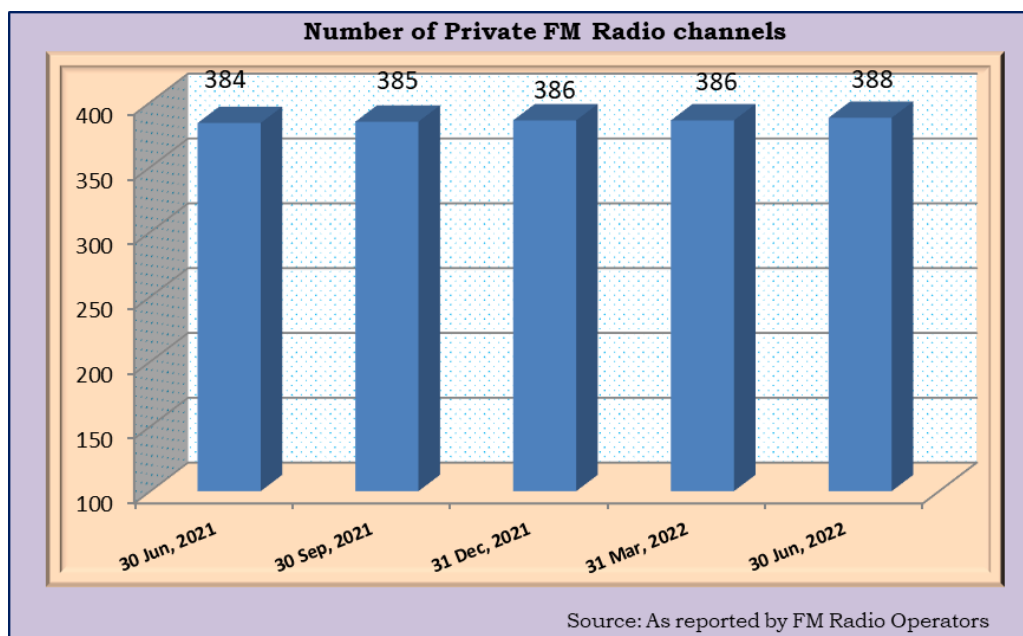
D. IPTV

As per information provided by the Ministry of Information and Broadcasting (MIB), as on 30.6.2022, there are 21 IPTV Operators. A list of such IPTV Operators is attached as **Annexure 5.4**. At present, M/s Andhra Pradesh State Fibernet Ltd has reported a subscriber base of 7,24,025 at the end of June 2022.

E. FM Radio Services

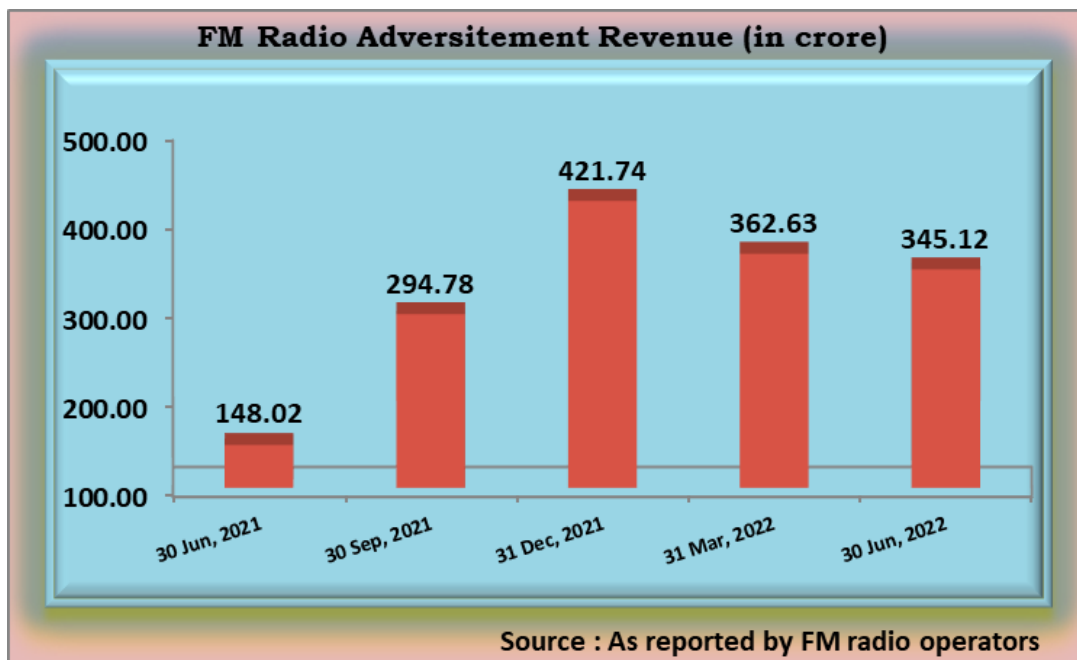
5.7 Apart from the radio channels operated by All India Radio – the public broadcaster, as per the data reported by FM Radio operators to TRAI, as on 30th June 2022, there are 388 operational private FM Radio channels in 113 cities operated by 36 private FM Radio operators. A list of 113 existing cities with operational private FM radio channels in India, as on 30th June, 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 30th June 2022 in respect of 388 private FM Radio channels is Rs 345.12 crore as against Rs 362.63 crore in respect of 386 private FM Radio channels for the previous quarter i.e. 31st March 2022.

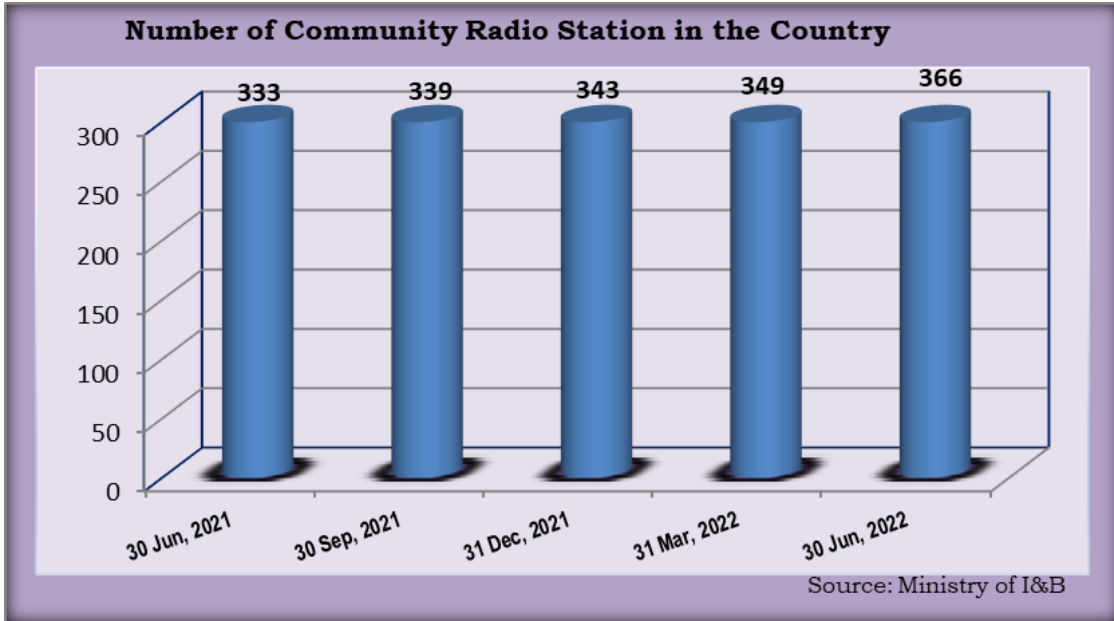
Chart 5.7: Details of Advertisement Revenue submitted by the private FM Radio broadcasters



F. Community Radio

5.9 As on 30th June 2022, 366 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
	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	
Andhra Pradesh	13692242	13356859	31366746	31538725			9299811	9012485			28761926	29304929	83,120,725	83,212,998	92273
Assam	2501259	2410870	10043796	10201674			3210135	3250243			8290308	8246878	24,045,498	24,109,665	64167
Bihar	10189484	10101469	37414631	38301968			5438780	5587868			33276206	34958257	86,319,101	88,949,562	2630461
Delhi	16130457	16425147	16235553	16258221	204	202			2152246	2151291	17752242	18169458	52,270,702	53,004,319	733617
Gujarat	23787229	23835491	11978342	11622248	78	64	5584147	5510968			25949345	26404219	67,299,141	67,372,990	73849
Haryana	7833440	7796890	5921655	6202510	19	18	4935801	4731997			8531886	8392903	27,222,801	27,124,318	-98483
Himachal Pradesh	558401	539042	3317454	3323745	93	92	2773564	2722613			3521078	3195547	10,170,590	9,781,039	-389551
Jammu & Kashmir	430021	416947	5632326	5792073	0	0	1321119	827217			4566655	4714476	11,950,121	11,750,713	-199408
Karnataka	7639731	7473709	30664024	30777403	653	615	6858477	6759194			19505818	20198583	64,668,703	65,209,504	540801
Kerala	15953380	15278510	7734058	7798383	165	157	10520191	10319550			9166678	9485240	43,374,472	42,881,840	-492632
Madhya Pradesh	19984148	19544985	15080492	15281659	0	0	6026898	5818909			35667197	36620014	76,758,735	77,265,567	506832
Maharashtra	28714243	27756584	20274742	20429513	0	0	6656723	6618575			36653409	37530857	92,299,117	92,335,529	36412
Mumbai	11837333	11702577	9693295	9525925	1270	1214			1096405	1088510	11637672	11853986	34,265,975	34,172,212	-93763
North East	1099337	1076669	5628807	5733657	0	0	1358731	1410265			3831508	3749449	11,918,383	11,970,040	51657
Orissa	1829944	1727691	11069813	11181653	54	36	6262887	6296889			13366795	13603769	32,529,493	32,810,038	280545
Punjab	8546865	8345197	11909677	12000312	117	115	5301931	5184123			11227549	10821536	36,986,139	36,351,283	-634856
Rajasthan	11073954	10891351	21819804	22005978	170	169	6545223	6441357			23746244	23792866	63,185,395	63,131,721	-53674
Tamil Nadu	17928621	17654593	27403128	27100431	293	291	9718797	9919677			23801100	24289215	78,851,939	78,964,207	112268
UP(E)	20543055	20159319	37152947	37292054	0	0	11047872	10800275			31861176	33468171	100,605,050	101,719,819	1114769
UP(W)	18762746	18406223	18499362	18661342	9	9	5955327	5790363			20868507	21619720	64,085,951	64,477,657	391706
Kolkata	6076759	6080093	5709242	5703819	0	0	2260124	2158452			9726519	9869978	23,772,644	23,812,342	39698
West Bengal	15662083	15665406	15781370	16235000	222	172	2665422	2361967			22284113	22720643	56,393,210	56,983,188	589978
Total	260,774,732	256,645,622	360,331,264	362,968,293	3,347	3,154	113,741,960	111,522,987	3,248,651	3,239,801	403,993,931	413,010,694	1,142,093,885	1,147,390,551	5296666

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
		Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	Mar-22	Jun-22	
1	Andhra Pradesh	352032	365092	20035	20731			156683	156504			692320	679728	65410	72645	708510	794850	1,994,990	2,089,550	94,560
2	Assam	0	12084	0	0			0	0			103782	106288	2820	2820	102291	114293	208,893	235,485	26,592
3	Bihar	0	0	9	9			8152	8356			167828	162445	1890	1890	261865	302238	439,744	474,938	35,194
4	Delhi	1773430	1768807	28539	27935			138455	138150	1284568	1261711	-	-	84260	83245	617697	689195	3,926,949	3,969,043	42,094
5	Gujarat	160949	160722	3420	2552			77575	76609			393836	373194	43986	51766	382794	428969	1,062,560	1,093,812	31,252
6	Haryana	48246	62763	0	0			32688	31996			184984	185121	330	330	69179	77350	335,427	357,560	22,133
7	Himachal Pradesh	0	2261	0	0			1563	1563			88425	87779	30	30	31160	36523	121,178	128,156	6,978
8	Jammu & Kashmir	40024	47619	0	0			0	0			101378	96398	30	30	139539	153130	280,971	297,177	16,206
9	Karnataka	920943	939345	22923	21608			246903	234558			879553	873995	121757	131482	511274	574699	2,703,353	2,775,687	72,334
10	Kerala	79432	80870	4666	4273			18781	18899			1054283	1030782	8960	6990	153820	171776	1,319,942	1,313,590	-6,352
11	Madhya Pradesh	354987	368034	5	5			12164	12345			281090	272623	16560	23405	370286	441441	1,035,092	1,117,853	82,761
12	Maharashtra	276161	305339	10148	10111			211678	210639			701616	674857	25463	25663	163694	187492	1,388,760	1,414,101	25,341
13	Mumbai	478389	481375	50549	49154			481882	478692	1,409,070	1,369,823	0		106951	178216	583164	651576	3,110,005	3,208,836	98,831
14	North East	0	0	0	0			0	0			80057	80733	330	330	84129	98831	164,516	179,894	15,378
15	Orissa	0	0	4	4			7990	8192			188482	181004	3710	3430	126797	147938	326,983	340,568	13,585
16	Punjab	186740	190841	1578	2413	266799	298440	13882	14149			313453	310451	2040	2010	166589	191182	951,081	1,009,486	58,405
17	Rajasthan	139265	148818	3981	3639			12822	12877			292244	286579	15700	15180	225772	266364	689,784	733,457	43,673
18	Tamil Nadu	672072	690972	21915	20830			118938	120398			1026022	1004844	38570	37765	471395	524259	2,348,912	2,399,068	50,156
19	U.P.(E)	100907	131779	20	20			8159	8320			146270	143780	16780	16720	278805	309635	550,941	610,254	59,313
20	U.P.(W)	96213	100935	7	10			4450	4802			196937	191436	4246	3716	300745	338209	602,598	639,108	36,510
21	Kolkata	170510	170958	6310	6161			45506	46538			382575	220248	12535	13525	281928	318002	899,364	775,432	-123,932
22	West Bengal	0	0	12	13			2548	2634			233895	240220	120	120	141138	158960	377,713	401,947	24,234
	Total	5,850,300	6,028,614	174,121	169,468	266,799	298,440	1,600,819	1,586,221	2,693,638	2,631,534	7,509,030	7,202,505	572,478	671,308	6,172,571	6,976,912	24,839,756	25,565,002	725,246

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 31.03.2022	Number of PCOs as on 30.6.2022	Net PCO increase/decrease as on 30.6.2022	Percentage Growth/Decline as on 30.6.2022
1	Andhra Pradesh	Bharat Sanchar Nigam Limited	5,428	5,009	-419	-7.72%
		Bharti Airtel	181	181	0	0.00%
2	Assam	Bharat Sanchar Nigam Limited	508	501	-7	-1.38%
3	Bihar	Bharat Sanchar Nigam Limited	2,605	2,311	-294	-11.29%
4	Delhi	Bharti Airtel	330	330	0	0.00%
		MTNL	6,686	6,303	-383	-5.73%
5	Gujarat	Bharat Sanchar Nigam Limited	2,640	2,499	-141	-5.34%
		Bharti Airtel	14	14	0	0.00%
6	Haryana	Bharat Sanchar Nigam Limited	291	306	+15	5.15%
		Bharti Airtel	129	129	0	0.00%
7	Himachal Pradesh	Bharat Sanchar Nigam Limited	586	455	-131	-22.35%
8	Jammu & Kashmir	Bharat Sanchar Nigam Limited	257	182	-75	-29.18%
9	Karnataka	Bharat Sanchar Nigam Limited	3,718	3,376	-342	-9.20%
		Bharti Airtel	2,549	2,549	0	0.00%
10	Kerala	Bharat Sanchar Nigam Limited	5,504	5,293	-211	-3.83%
		Bharti Airtel	373	373	0	0.00%
11	Kolkata	Bharat Sanchar Nigam Limited	1,426	1,399	-27	-1.89%
		Bharti Airtel	26	26	0	0.00%
12	Madhya Pradesh	Bharat Sanchar Nigam Limited	1,084	1,049	-35	-3.23%
		Bharti Airtel	0	0	0	
13	Maharashtra	Bharat Sanchar Nigam Limited	3,930	3,668	-262	-6.67%
		Bharti Airtel	0	0	0	
14	Mumbai	Bharti Airtel	50	50	0	0.00%
		MTNL	9,757	8,603	-1154	-11.83%
15	North East	Bharat Sanchar Nigam Limited	559	496	-63	-11.27%
16	Odisha	Bharat Sanchar Nigam Limited	320	315	-5	-1.56%
17	Punjab	Bharat Sanchar Nigam Limited	966	907	-59	-6.11%
		Bharti Airtel	0	0	0	
		Quadrant	416	403	-13	-3.13%
18	Rajasthan	Bharat Sanchar Nigam Limited	635	599	-36	-5.67%
		Bharti Airtel	209	209	0	0.00%
19	TN including Chennai	Bharat Sanchar Nigam Limited	11,493	10,085	-1408	-12.25%
		Bharti Airtel	0	0	0	
20	UP - East	Bharat Sanchar Nigam Limited	2,057	2,485	+428	20.81%
		Bharti Airtel	0	0	0	
21	UP - West	Bharat Sanchar Nigam Limited	1,231	1,126	-105	-8.53%
		Bharti Airtel	0	0	0	
22	West Bengal	Bharat Sanchar Nigam Limited	196	196	0	0.00%
	Total		66,154	61,427	-4727	-7.15%
	Total (In Lakhs)		0.66	0.61	-0.047	-7.15%

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 31.03.2022	VPT Rural	VPT Urban	Number of VPTs as on 30.6.2022	Net VPTs increase/ decrease as on 30.6.2022	Percentage Growth/ Decline as on 30.6.2022
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 30.06.2022**

S. No.	Name of Service Provider	Narrowband	Broadband	Total
1	Reliance Jio Infocomm Ltd	0	419168560	419168560
2	Bharti Airtel Ltd.	20451095	219409195	239860290
3	Vodafone Idea Ltd	12702413	122957654	135660067
4	Bharat Sanchar Nigam Ltd.	2661268	25016943	27678211
5	Atria Convergence Technologies Pvt. Ltd.	0	2113273	2113273
6	Hathway Cable And Datacom Limited	0	1113951	1113951
7	ONEOTT iNTERTAINMENT LIMITED	0	1103219	1103219
8	YOU Broadband India Ltd.	14379	833792	848171
9	GTPL Broadband Pvt. Ltd.	0	769357	769357
10	Excitel Broadband Private Limited	0	718975	718975
11	Mahanagar Telephone Nigam Limited	76374	614687	691061
12	Kerala Vision Broadband Ltd.	0	686456	686456
13	Netplus Broadband Services Pvt. Ltd	0	529795	529795
14	ALLIANCE BROADBAND SERVICES PVT. LTD.	0	514209	514209
15	RailTel Corporation of India Ltd.	0	461042	461042
16	Asianet Satellite Communications Ltd.	0	400745	400745
17	Tata Play Broadband Private Limited	0	336175	336175
18	Intech Online Pvt. Ltd.	0	303611	303611
19	Tikona Infinet Ltd.	0	254858	254858
20	D-Vois Communication Private Limited	0	254563	254563
21	Quadrant Televentures Ltd.	95	243092	243187
22	Limras Eronet Broadband Service Pvt Ltd	0	146966	146966
23	Excell Media Pvt. Ltd.	0	144203	144203
24	Indinet Service Pvt. Ltd.	0	126481	126481
25	Siti Broadband Services Pvt. Limited	0	126324	126324
26	ANI NETWORK PVT LTD	0	126109	126109
27	Wish Net Pvt. Ltd.	0	107839	107839
28	Joister Infoserve Pvt. Ltd.	0	98686	98686
29	Five Network Solution (India) Ltd.	0	91072	91072
30	Airnet Cable and Datacom Pvt. Ltd.	0	81844	81844
31	Fusionnet Web Services Pvt Ltd	0	73704	73704
32	DEN Broadband Limited	0	73216	73216
33	Ishan Netsol Pvt. Ltd.	0	69190	69190
34	Digital Satellite Connect Private Limited	0	58981	58981
35	K Net Solutions Pvt. Ltd.	0	55492	55492
36	GTPL KCBPL Broadband Private Limited	0	55377	55377
37	Dwan Supports Pvt. Ltd.	0	54590	54590
38	Microscan Infocommtech Private Limited	0	42845	42845

S. No.	Name of Service Provider	Narrowband	Broadband	Total
39	Instanet Technologies Pvt. Ltd.	0	35949	35949
40	Juweriyah Networks Pvt. Ltd.	0	35631	35631
41	DNA Infotel Pvt. Ltd.	0	34988	34988
42	Honesty Net Solutions (I) Pvt Ltd	0	34678	34678
43	Meghbela Cable & Broadband Servies (P) Ltd	0	29171	29171
44	Sristisanchar Webnet Limited	0	29011	29011
45	Multicraft Digital Technologies Private Limited	0	28807	28807
46	WAN AND LAN INTERNET PRIVATE LIMITED	0	27723	27723
47	Kernel Fibernet Online Network Pvt. Ltd.	0	27522	27522
48	Tata Teleservices(Maharashtra) Ltd.	66	26265	26331
49	Nuron Networks India Private Limited	0	25812	25812
50	Shyam Spectra Private Limited	0	25663	25663
51	Radinet Info Solutions Pvt. Ltd.	0	25387	25387
52	Digital Networks Associates Pvt. Ltd.	0	24219	24219
53	Readylink Internet Services Limited	0	23871	23871
54	SIKKA BROADBAND PRIVATE LIMITED	0	23463	23463
55	Ethernet Xpress(I) Pvt. Ltd.	0	23328	23328
56	Shree Omkar Infocomm Pvt Ltd	0	21882	21882
57	Kings Broadband Pvt. Ltd	0	21823	21823
58	Tachyon Communications Private Limited	0	21462	21462
59	RI Networks Pvt Ltd	0	21089	21089
60	Weebo Networks Pvt Ltd.	0	20714	20714
61	Tata Communications Limited	392	20306	20698
62	Tata Teleservices Limited	1	20546	20547
63	Stampede Communications Pvt. Ltd.	0	19943	19943
64	Genstar Network Solutions Pvt. Ltd.	0	19197	19197
65	Rajesh Digital & DataCom Pvt. Ltd.	0	18256	18256
66	Spiderlink Networks Pvt. Ltd.	0	17590	17590
67	Yashash Cable Network (Pvt.) Ltd	0	17208	17208
68	United Telecoms Ltd.	0	17173	17173
69	DDC Broad Band Pvt. Ltd	0	16942	16942
70	Airlink Communications Pvt. Ltd.	0	16475	16475
71	QUEST CONSULTANCY PVT LTD	0	16270	16270
72	City Online Services Ltd.	0	16082	16082
73	Candor Infosolution Pvt. Ltd.	0	13767	13767
74	Angel Air Network Solutions Pvt. Ltd.	0	12700	12700
75	Pacenet Meghbela Broadband Pvt.Ltd.	0	12388	12388
76	Intermedia Cable Communication Pvt Ltd	0	11667	11667
77	DL GTPL Broadband Pvt. Ltd.	0	11385	11385
78	Ultranet Infotech Solution Pvt. Ltd.	0	11034	11034
79	LM Energy and Software Pvt. Ltd.	6089	4482	10571

S. No.	Name of Service Provider	Narrowband	Broadband	Total
80	Airfiber Networks Pvt. Ltd.	0	10137	10137
81	Broadband Pacenet (I) Pvt. Ltd.	0	10113	10113
82	Orange Waves Networks Pvt. Ltd.	0	9696	9696
83	INFONET COMM ENTERPRISES PVT LTD	0	9662	9662
84	Esto Broadband Pvt. Ltd.	0	9500	9500
85	NORTH EAST DATAA NETWORK PRIVATE LIMITED	0	9497	9497
86	MAHA MEDIACOM INTERNET PVT. LTD.	0	9469	9469
87	Signum Digital Networks Pvt. Ltd	0	9444	9444
88	Balaji Teleworks Development Pvt Ltd	0	9013	9013
89	JETWAY Broadband India Pvt Ltd.	0	8960	8960
90	HYFY Giga Fiber Pvt. Ltd.	0	8215	8215
91	Five Internet Solutions Pvt. Ltd.	0	8207	8207
92	AT Broadband Pvt. Ltd.	0	8173	8173
93	Siliguri Internet & Cable TV Pvt. Ltd.	0	8167	8167
94	Airconnect Internet Services Pvt. Ltd.	0	7847	7847
95	IAXN Telecom Pvt. Ltd.	0	7715	7715
96	Apna TeleLink Pvt. Ltd.	0	7640	7640
97	FOXTEL TELECOMMUNICATIONS PVT LTD	0	7325	7325
98	Kappa Internet Services Pvt. Ltd.	0	7280	7280
99	Prisac Aviation Technologies Pvt. Ltd.	0	7071	7071
100	Cityzone Infonet Pvt. Ltd.	0	6969	6969
101	SSCN Pvt. Ltd.	0	6856	6856
102	WSNS PVT. LTD.	0	6830	6830
103	Vizag Broad CastingCompany Pvt. Ltd.	0	6398	6398
104	S S Netcom Pvt. Ltd.	0	6354	6354
105	OM-ASHA Net Pvt. Ltd.	0	6186	6186
106	Symbios Creations Pvt. Ltd.	0	6147	6147
107	Multinet (Udaipur) Pvt. Ltd.	0	6028	6028
108	DEEPNET BROADBAND PRIVATE LIMITED	0	6007	6007
109	HYOSEC SOLUTIONS Pvt. LTD	0	5989	5989
110	Southern Online Bio Technologies Ltd.	0	5954	5954
111	Skymax Broadband Services Pvt. Ltd.	0	5900	5900
112	Airgenie Communications Pvt. Ltd.	0	5470	5470
113	SONALI INTERNET SERVICES PVT. LTD.	0	5292	5292
114	Wefe Technology Pvt. Ltd.	0	5203	5203
115	R.G. Technosolutions Pvt. Ltd.	0	5132	5132
116	GEOCITY NETWORK SOLUTIONS PVT. LTD.	0	4997	4997
117	Dsouza Infotainment Pvt. Ltd.	0	4986	4986
118	Inet Fiber India Pvt. Ltd	0	4703	4703
119	Lalat Internet Service Private Limited	0	4500	4500
120	Ani Broadband Service Pvt. Ltd.	0	4201	4201

S. No.	Name of Service Provider	Narrowband	Broadband	Total
121	SNS Internet Services Pvt. Ltd.	0	4120	4120
122	Five Net Service Provider Pvt. Ltd.	0	4068	4068
123	Sai Prasad Internet Services Pvt. Ltd.	0	4020	4020
124	Blazenet Ltd.	0	4017	4017
125	Bittel Telecom Private Limited	0	3917	3917
126	SUPER SONIC BROADBAND PVT LTD	0	3915	3915
127	Swiftmail Communications Ltd.	0	3893	3893
128	Speed Online Net Pvt Ltd	0	3796	3796
129	Siddhant Broadband Pvt. Ltd.	0	3780	3780
130	SoftCall Cust-O-Care Pvt. Ltd.,	0	3699	3699
131	Fiberzone communication Pvt Ltd	0	3650	3650
132	Kumar Cable Digital Network Pvt. Ltd.	0	3640	3640
133	Mukand Infotel Pvt. Ltd.	0	3626	3626
134	Maharaj Netsol Pvt Ltd	0	3541	3541
135	Getway Broadband Pvt. Ltd.	0	3530	3530
136	ARKTEL NETWORKS PVT LTD	0	3253	3253
137	VRD Web Services Pvt. Ltd.	0	3237	3237
138	TJ BROADBAND NETWORK PVT LTD	0	3235	3235
139	Net Access Internet India Private Limited	0	3212	3212
140	Antarjal IT Communication Pvt. Ltd.	0	3200	3200
141	Sri Nagar Net Tech Pvt. Ltd.	0	3191	3191
142	Rainbow Internet teleservices Pvt Ltd	0	3184	3184
143	Shine Communications Pvt. Ltd.	0	3125	3125
144	STN INFOTECH PVT. LTD.	0	3125	3125
145	Nirav Infoway Pvt. Ltd.	0	3078	3078
146	AS Broadband Pvt. Ltd	0	2950	2950
147	Renu Giga Fiber Pvt. Ltd.	0	2904	2904
148	Prathamesh Broadband Pvt. Ltd	0	2900	2900
149	Ski Network Services Pvt. Ltd	1423	1419	2842
150	AAACLOUD TELEPHONY PRIVATE LIMITED	0	2822	2822
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	CSC e-Governance Services India Ltd.	0	2779	2779
155	Sherie Plexus ISP Pvt. Ltd.	0	2779	2779
156	NETVISION AWADH NETWORKS PVT LTD	0	2774	2774
157	TGN NETWORKS PVT LTD	0	2679	2679
158	Exnet Broadband Pvt. Ltd.	0	2670	2670
159	LAKSHAY ISOLUTIONS INDIA PRIVATE LIMITED	0	2643	2643
160	TRANSMEDIA TECHNOLOGIES (AP) PVT LTD	0	2639	2639
161	NISS INTERNET SERVICES PVT. LTD.	0	2545	2545

S. No.	Name of Service Provider	Narrowband	Broadband	Total
162	WOW Solutions and Systems Pvt. Ltd	0	2507	2507
163	N4U broadband pvt.ltd	0	2500	2500
164	E I DOT Com Pvt. Ltd.	0	2497	2497
165	Megahertz Internet Network Pvt. Ltd.	0	2481	2481
166	Deenet Services Pvt Ltd	0	2475	2475
167	Spider Broadband Pvt. Ltd..	0	2441	2441
168	Classic Internet and Cable Services Pvt. Ltd.	0	2436	2436
169	Chandra Net Pvt. Limited	0	2435	2435
170	ADRI INFOCOM Pvt. Ltd.	0	2430	2430
171	Lbs Infoway India Pvt. Ltd.	0	2425	2425
172	Swiftnet Broadband Pvt Ltd	0	2417	2417
173	delDSL Internet Pvt Ltd	0	2388	2388
174	Foxcell Communications Pvt. Ltd.	0	2368	2368
175	Lotus Broadband Pvt Ltd	0	2356	2356
176	SBR Telecom Pvt. Ltd.	0	2350	2350
177	HIGHTEC NETWORK SOLUTIONS (OPC) PRIVATE LIMITED	0	2321	2321
178	Bakliwal Telecom Services Pvt. Ltd.	0	2236	2236
179	WNET TELECOM PRIVATE LIMITED	0	2228	2228
180	Pink Broadband Services Pvt. Ltd.	0	2203	2203
181	Real Wire Express Network Pvt. Ltd.	0	2120	2120
182	B2H Infonet Pvt. Ltd.	0	2076	2076
183	Scud Communication Pvt. Ltd.	0	2072	2072
184	Jetspot Networks Pvt. Ltd.	0	2061	2061
185	Vision Smartlink Networking Pvt. Ltd.	0	2048	2048
186	SMARTLINK SOLUTIONS PVT. LTD.	0	2033	2033
187	Shikhar BroadbandEnterprises Pvt. Ltd.	0	2000	2000
188	OUTOFBOX NETWORKS PRIVATE LIMITED	0	1953	1953
189	Southnet Broadband Pvt. Ltd.	0	1935	1935
190	Mana Broadband Pvt. Ltd.	0	1931	1931
191	City Online AP Pvt. Ltd.	0	1930	1930
192	Uzaina Business India Pvt. Ltd.	0	1927	1927
193	CORREL IT SERVICE PVT LTD	0	1920	1920
194	Mayekar Broadband Pvt. Ltd.	0	1905	1905
195	CredenceIS Computing Pvt. Ltd.	0	1900	1900
196	Channel III Internet Pvt. Ltd.	0	1890	1890
197	First Mile Digital Private Limited	0	1860	1860
198	Galaxynet Connections Pvt. Ltd.	0	1854	1854
199	SMART NET INDIA PVT LTD	0	1845	1845
200	Sprioc Web Private Limited	0	1841	1841
201	Sanchit Infocom Pvt Ltd	0	1818	1818
202	Osbnnet Broadband Pvt. Ltd.	0	1813	1813

S. No.	Name of Service Provider	Narrowband	Broadband	Total
203	Blu Ultraband Internet Services Private Limited	0	1806	1806
204	Elyzium Technologies Pvt. Ltd.	0	1805	1805
205	Karunay Internet Pvt. Ltd.	0	1768	1768
206	Surround Networks Pvt Ltd	0	1731	1731
207	DNS SKYLINK PVT. LTD.	0	1728	1728
208	Assistive networks & technologie Pvt Ltd	0	1701	1701
209	Sphier Infotech PVT. LTD.	0	1700	1700
210	Syntego Technologies India Pvt. Ltd.	0	1694	1694
211	BLITS GLOBAL TECHNOLOGIES Pvt. LTD	0	1690	1690
212	Maruthi Cable & Data Pvt. Ltd.	0	1687	1687
213	Protoact Digital Network Pvt. Ltd.	0	1683	1683
214	Bakcom Networks India Pvt. Ltd.	1682	0	1682
215	JB Jain Broadband Solutions Private Limited	0	1671	1671
216	Netlinx Limited	0	1591	1591
217	Flashcom Network Pvt. Ltd.	0	1587	1587
218	Charotar Telelink Pvt. Ltd..	0	1578	1578
219	SHAILDHAR TELECOM SERVICES Pvt. LTD	0	1570	1570
220	Venessa Internet Pvt. Ltd.	0	1557	1557
221	MORE WIFI PRIVATE LIMITED	0	1550	1550
222	Capture Network Systems Pvt. Ltd.	0	1517	1517
223	Speednet Unique Network Pvt. Ltd.	0	1506	1506
224	Macro Signal Pvt. Ltd	0	1502	1502
225	Amar Broadband Pvt. Ltd..	0	1489	1489
226	S S Fiber Net OpticalCommunication Pvt. Ltd.	0	1482	1482
227	Click 4 Net Internet Services Pvt. Ltd.	0	1475	1475
228	NGC Broadband Pvt. Ltd.	0	1444	1444
229	Sefaro Networks Pvt. Ltd.	0	1420	1420
230	Skyline Infonet Pvt. Ltd.	0	1417	1417
231	Kovai Fibernet Pvt. Ltd.	0	1413	1413
232	Speedmaxx Digital Networks Pvt. Ltd.	0	1412	1412
233	Vimal Telecom Pvt. Ltd	0	1400	1400
234	Smart Wi5 Pvt. Ltd.	0	1372	1372
235	Teligus Networks Pvt. Ltd	0	1370	1370
236	A.S.C.S.C. DIGITAL PRIVATE LIMITED	0	1303	1303
237	Gigacast Network Pvt. Ltd.	0	1278	1278
238	Rtel Internet services Pvt Ltd	0	1269	1269
239	Airwaves Internet Pvt. Ltd.	0	1255	1255
240	City Broadband Network Pvt Ltd	0	1248	1248
241	MAKS COMMUNICATIONS PVT.LTD.	0	1248	1248
242	AMK SUNBEAM COMMUNICATION PRIVATE LIMITED	0	1221	1221
243	UNITED STARS NETWORK PRIVATE LIMITED	0	1221	1221

S. No.	Name of Service Provider	Narrowband	Broadband	Total
244	Nikita Broadband Pvt. Ltd	0	1214	1214
245	iAIRONET COMMUNICATION PVT LTD	0	1213	1213
246	VENKATA SAI INTERNET PRIVATE LIMITED	0	1205	1205
247	Poem Techno Pvt. Ltd.	0	1186	1186
248	REVOLUTION BROADBAND PVT LTD	0	1177	1177
249	Anish Infoline Pvt. Ltd.	0	1140	1140
250	Green Tech Net Com Pvt. Ltd.	0	1118	1118
251	Mega Hertz Network Solutions Pvt. Ltd.	0	1116	1116
252	ACN Fiber Pvt. Ltd.	0	1100	1100
253	Oxynet Telecommunications Pvt. Ltd	0	1098	1098
254	BHORER ALO CABLE AND BROADBAND PRIVATE LIMITED	0	1084	1084
255	Veloxx Telecom Pvt. Ltd.	0	1083	1083
256	Al-Mairah Braodband Pvt. Ltd.	0	1080	1080
257	Shree Manoranjan Broadband Pvt. Ltd.	0	1076	1076
258	Hardwork Cable & Internet services Pvt. Ltd.	0	1072	1072
259	FASTNET COMMUNICATION PVT. LTD	203	862	1065
260	Country Online Services Pvt. Ltd.	0	1061	1061
261	FTTX Broadband P Ltd	0	1050	1050
262	Hostaxis Network Pvt. Ltd.	0	1043	1043
263	SKY ONLINE TECHNOSYSTEM PVT LTD	0	1016	1016
264	DA Smartzone Pvt. Ltd.	0	999	999
265	Reliance Communications Limited	993	0	993
266	Netfirst Communications Pvt. Ltd.	0	989	989
267	Wi-Link Network Pvt. Ltd	0	977	977
268	AHM Digital Network Pvt Ltd	0	970	970
269	Shrisai Shavenk Technologies Pvt. Ltd.	0	968	968
270	Nandini Broadband Pvt. Ltd.	0	966	966
271	Mhatoba BroadbandPvt. Ltd	0	946	946
272	Anushree Digital Network Pvt Ltd	0	944	944
273	Rida Communication Pvt. Ltd.	0	930	930
274	Grace Teleinfra Pvt Ltd	0	927	927
275	NetMagic Solutions(P) Ltd.	0	927	927
276	SIS NETWORKS PVT LTD	0	924	924
277	Sampath Venkateswara Communications Pvt. Ltd.	0	923	923
278	Spider Broadband & Cable Pvt. Ltd.	0	917	917
279	ALWAR ONLINE PVT LTD	0	910	910
280	Aeroway Networks Pvt. Ltd.	0	900	900
281	Ficus Telecom Pvt. Ltd.	0	873	873
282	Packenet Solutions Pvt. Ltd.	0	865	865
283	Darer Internet Services Pvt. Ltd.	0	863	863
284	Uttam Infranet Pvt. Ltd..	0	849	849

S. No.	Name of Service Provider	Narrowband	Broadband	Total
285	Bluwaves Internet Services India Pvt. Ltd.	0	848	848
286	DREAMLINK TECHNOLOGIES PVT LTD	0	848	848
287	Global (India) Tele Infra Pvt. Ltd.	0	832	832
288	Jiffy Cable & Datacom Pvt. Ltd.	0	831	831
289	AU NetworksPvt. Ltd.	0	825	825
290	Vinayaga Communications Pvt Ltd.	0	825	825
291	KESHAVA DIGITAL NETWORK PVT. LTD.	0	818	818
292	Starlings Wireless Communications Pvt. Ltd.	0	806	806
293	GREEN ARROW TECHNOLOGY PRIVATE LIMITED	0	803	803
294	JMD Internet and Services Pvt. Ltd.	0	803	803
295	VIVA Communications Pvt Ltd	0	800	800
296	Unisas Netserve Pvt. Ltd.	0	797	797
297	Shineplus Networks Pvt. Ltd.	0	776	776
298	Wyris Network Pvt. Ltd.	0	774	774
299	C. J. Online Pvt. Ltd.	0	771	771
300	CATLA IT&ENGG. CO. PVT LTD.	0	770	770
301	Bapu Internet ServicesPvt. Ltd.	0	768	768
302	Alegra Communication Pvt Ltd	0	763	763
303	Datawave IT solutions Pvt. Ltd.	0	763	763
304	Touchnet Broadband Services Pvt. Ltd.	0	757	757
305	SB Broadband Services Pvt. Ltd	0	756	756
306	Sarva Air World Network Pvt Ltd	0	747	747
307	CJ Online Pvt. Ltd.	0	743	743
308	Reticule Infotech Pvt. Ltd.	0	737	737
309	KGS NETWORKS PRIVATE LIMITED	0	728	728
310	Telosy Telecom Pvt. Ltd.	0	725	725
311	Spirenet Digital Communications Pvt. Ltd.	0	720	720
312	VICTORY DIGITAL NETWORK PRIVATE LIMITED	0	710	710
313	KOLI'Z PRIVATE LIMITED	0	709	709
314	Nextra Communications Private Limited	0	709	709
315	Software Technology Parks of India	1	708	709
316	NEONET COMMUNICATIONS PVT LTD	0	708	708
317	Cloudnet Communications Pvt. Ltd.	0	706	706
318	Daksh Broadband Services Pvt. Ltd.	0	701	701
319	Rajesh Patel Net Services Pvt. Ltd.	3	695	698
320	Trueinet Networks Pvt.Ltd	0	696	696
321	SVD Digital Networks Pvt. Ltd.	0	695	695
322	CNS Infotel Services Pvt. Ltd..	0	693	693
323	Primenet Global Ltd.	0	692	692
324	TOUCH NET INDIATELESERVICE PRIVATE LIMITED	0	684	684
325	Gloiosa Infotel IT Services Pvt Ltd.	0	682	682

S. No.	Name of Service Provider	Narrowband	Broadband	Total
326	NETSAT COMMUNICATIONS PVT. LTD.	0	680	680
327	Kosmic Broadband Pvt Ltd	0	676	676
328	Unitel Media Pvt. Ltd.	0	675	675
329	HPS DIGITAL BROADBAND PVT LTD	0	672	672
330	Gleam Worldwide Services Pvt. Ltd.	0	670	670
331	Briskcom Infoway Pvt. Ltd.	0	668	668
332	Craze IT Solutions Pvt Ltd	0	667	667
333	Power Grid Corporation of India Ltd.	0	664	664
334	BASS NETWORKS PRIVATE LIMITED	0	661	661
335	Stackbit Internet Services Pvt. Ltd.	0	659	659
336	ACME Diginet Corporation Pvt. Ltd.	0	654	654
337	Spectram Telecom Pvt.Ltd	0	650	650
338	POWERNET TELECOM PVT LTD	0	649	649
339	Fastx Broadband Pvt. Ltd.	0	647	647
340	Bass Jokernet Pvt. Ltd.	0	646	646
341	Bandwidth Infinity Pvt. Ltd	0	637	637
342	LIMERICK TECHNOLOGIES PRIVATE LIMITED	0	634	634
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	Sivaan Infocom Pvt. Ltd	0	603	603
347	RSBS Online Services Pvt. Ltd.	0	595	595
348	Ometa Net Pvt. Ltd.	0	592	592
349	ALLIED IT INFRASTRUCTURE & SERVICES PRIVATE LIMITED	588	0	588
350	Clickian Network Pvt. Ltd.	0	588	588
351	Gowio Networks Pvt. Ltd	0	586	586
352	Digiscope Networks Private Limited	0	578	578
353	SHEEN TELECOM CONSULTANTS PVT LTD	0	572	572
354	Alphanet Broadband Pvt Ltd	0	571	571
355	SG Broadband Internet Pvt. Ltd.	0	568	568
356	Nanjil Internet Services Pvt. Ltd.	0	560	560
357	Gazillio Technologies Pvt. Ltd.	0	557	557
358	INTERJET INDIA PRIVATE LIMITED	0	556	556
359	Digital2Virtual ISP Pvt. Ltd.	0	549	549
360	Panav Network and Communications Private Limited	0	548	548
361	Acegen Broadband Pvt. Ltd.	0	540	540
362	MSINFINITY ETHERNET SOLUTIONS PRIVATE LIMITED	536	0	536
363	Goodwill Smartlink Pvt. Ltd.	0	535	535
364	Imperium Digital Network Pvt. Ltd.	0	520	520
365	Fastnet Wire & Wireless Solutions Pvt. Ltd.	0	518	518
366	Varsha Datacom Services Pvt Ltd	0	514	514

S. No.	Name of Service Provider	Narrowband	Broadband	Total
367	DE-CIX Interwire Internet Services Pvt. Limited	0	502	502
368	Hughes Communications India Ltd.	37	465	502
369	NC BROADBAND SERVICES PRIVATE LIMITED	0	498	498
370	Cityline Networks Pvt Ltd	0	496	496
371	Faiconet Internet Pvt Ltd	0	490	490
372	Breitband Technologies Private Limited	0	488	488
373	KSK Broadband Pvt. Ltd.	0	485	485
374	Hightel Digital India Pvt. Ltd.	0	480	480
375	Texas Connect Private Limited	0	475	475
376	GIGANET DIGITAL NET SERVICES PRIVATE LIMITED	0	465	465
377	OPTO Communications Private Limited	0	456	456
378	Mall and Mall Digiworld Pvt. Ltd.	0	454	454
379	ARJUN BROADBAND PRIVATE LIMITED	0	453	453
380	Moradabad Internet Services Pvt. Ltd.	0	451	451
381	DMDS SOLUTIONSPRIVATE LIMITED	0	443	443
382	MREZHI INTERNET PRIVATE LIMITED	0	440	440
383	Quick Link Broadband and Services Pvt. Ltd.	0	439	439
384	BPS COMMUNICATION AND SERVICES PRIVATE LIMITED	0	436	436
385	KKM Broadband Internet Pvt. Ltd.	0	434	434
386	Simplex Broadband Pvt. Ltd.	0	431	431
387	Prompt Infracom Pvt. Ltd.	0	430	430
388	Susneham Private Limited	0	430	430
389	VPM NETWORKS PRIVATE LIMITED	0	425	425
390	Shivraj Broadband Internet Pvt. Ltd.	0	422	422
391	Tamana Winet Pvt. Ltd.	0	422	422
392	Sysnet Broadband Services Pvt. Ltd.	0	417	417
393	Nandita Infocom Pvt. Ltd.	0	414	414
394	TRACKNET SERVICES PVT LTD	0	413	413
395	7 Sai Net Solutions Pvt. Ltd.	0	412	412
396	Earthlink Broadband Pvt. Ltd	0	410	410
397	RUSH ME BROADBAND PRIVATE LIMITED	0	403	403
398	SIDDIQUI GLOBAL SERVICES PVT LTD	0	403	403
399	3J Global Services Pvt Ltd	0	398	398
400	HANUMAT NETWORKS PRIVATE LIMITED	0	397	397
401	PULSE TELESYSTEMS PRIVATE LIMITED	0	391	391
402	JBN Online Pvt. Ltd.	0	387	387
403	GOMTESH INFOTECH PVT. LTD.	0	386	386
404	Visputes Internet Pvt. Ltd.	0	386	386
405	VORRUCKEN NETWORKS PRIVATE LIMITED	0	382	382
406	Cybernet Introtech Pvt. Ltd.	0	375	375
407	Development Logics Solutions Pvt. Ltd.	0	370	370

S. No.	Name of Service Provider	Narrowband	Broadband	Total
408	Malang Solutions Pvt. Ltd.	0	370	370
409	Starnet Global Pvt. Ltd.	0	370	370
410	COMPLIANCE BROADBAND PRIVATE LIMITED	0	365	365
411	Rocketwire Internet Solutions Pvt. Ltd.	0	365	365
412	LINKIO FIBERNET PRIVATE LIMITED	0	364	364
413	YES BROADBANDPRIVATE LIMITED	0	362	362
414	BSL Technologies Pvt. Ltd.	0	360	360
415	Citylink Broadband Services Pvt. Ltd.	0	356	356
416	Suncity Broadband Pvt. Ltd.	0	352	352
417	Unigro Infranet Online Pvt. Ltd.	0	346	346
418	Speedster Communications Pvt. Ltd	0	340	340
419	VERYS INFOTECH PRIVATE LIMITED	0	335	335
420	PRONET PRIVATE LIMITED	0	334	334
421	WAVETREE NETWORKS PVT LTD	0	333	333
422	Sai Akshay Internet Services Pvt Ltd.	0	332	332
423	Elecon Information Technology Ltd.	0	331	331
424	Kataria Net Solutions Pvt. Ltd.	0	331	331
425	Twincity Communication Private Limited	0	328	328
426	I-Infolink Networks Pvt. Ltd.	0	315	315
427	Voxterria Innovtions Pvt. Ltd.	0	309	309
428	TRIVNET NETWORKS PRIVATE LIMITED	0	304	304
429	Digital Telco Network India Pvt. Ltd.	0	301	301
430	Apex Netcom India Pvt. Ltd..	0	300	300
431	Aayu Infonet Pvt. Ltd.	0	297	297
432	STN Communication & Advertising Pvt. Ltd.	0	294	294
433	Sense Connect IT Pvt. Ltd.	0	288	288
434	Clicknet Communication Pvt. Ltd.	0	286	286
435	ST Network Solutions Pvt. Ltd.	0	284	284
436	CONSAM TELECOM PRIVATE LIMITED	0	281	281
437	Vardaan Netservices Pvt. Ltd.	0	281	281
438	Vizcon Digital Pvt. Ltd.	280	0	280
439	Skyhunt IT Park Pvt. Ltd.	0	279	279
440	Verizon Communications India Pvt. Ltd.	0	276	276
441	WAY2AIR NET SOLUTION PVT. LTD.	0	275	275
442	Bluenet Broadband Services Pvt. Ltd.	0	272	272
443	HIPOINT CONNECT PRIVATE LIMITED	0	271	271
444	SMARTLINK BROADBAND SERVICES PVT LTD	0	271	271
445	J-Link Infotainment Pvt. Ltd.	0	270	270
446	Wireline Solution India Pvt Ltd	0	270	270
447	HELM CONSULTANTS PVT LTD	0	269	269
448	Proline Datatech Services Pvt. Ltd.	0	260	260

S. No.	Name of Service Provider	Narrowband	Broadband	Total
449	Singh Internet Services Pvt. Ltd.	0	260	260
450	Neton Icom Pvt. Ltd.	0	249	249
451	SNT Broadband Pvt. Ltd.	0	247	247
452	Zoram Infonet Pvt. Ltd.	0	246	246
453	Auspice Infratel Pvt. Ltd.	0	240	240
454	Micronova Telesystems Pvt Ltd	0	240	240
455	TEJNET GIGAFIBER PRIVATE LIMITED	0	240	240
456	AEROLINK BROADBAND PRIVATE LIMITED	0	238	238
457	Microsense Pvt Ltd	0	237	237
458	Barani Data Solutions Private Limited	0	232	232
459	Vrednus Network Pvt. Ltd.	0	230	230
460	Hipath Netcom Services Pvt. Ltd.	0	228	228
461	Khetan Cable Network (P) Ltd	0	228	228
462	Magnuss Broadband Service Pvt. Ltd.	0	228	228
463	VIVEK NETWORK PRIVATE LIMITED	0	228	228
464	ZEES BROAD BAND PRIVATE LIMITED	0	228	228
465	Antariksh Broadband & Wireless Solution Pvt. Ltd.	0	223	223
466	AT&T Global Network Service India Private Limited	0	223	223
467	Rmax Broadband Pvt. Ltd.	0	222	222
468	Netrexo Communications Pvt. Ltd.	0	221	221
469	Peer Networks Private Limited	0	221	221
470	ACEBROWSE PVT LTD	0	219	219
471	CIT SOLUTIONS PVT. LTD.	0	217	217
472	iBus Network & Infrastructure (P) Ltd.	0	212	212
473	Enhancelink Coreport Pvt. Ltd	0	211	211
474	Data Ingenious Global Ltd	0	209	209
475	Yuva Communications Private Limited	0	209	209
476	Saibaba Broadband Pvt. Ltd.	0	206	206
477	AIRTECHZONE SERVICES INDIA PRIVATE LIMITED	0	203	203
478	Delix Net Solutions Pvt. Ltd	0	203	203
479	SSICON SYSTEMS PRIVATE LIMITED	0	202	202
480	Dhadam Hospitality & Services Pvt. Ltd.	0	200	200
481	Ishani Broadband Pvt Ltd	0	200	200
482	VN ETHERNET INDIA PRIVATE LIMITED	199	0	199
483	EYE FASTNET SERVICE PRIVATE LIMITED	0	196	196
484	METREXA BROADNET PRIVATE LIMITED	0	191	191
485	King Netsol Pvt. Ltd.	18	172	190
486	Pune Teleinfra Pvt. Ltd..	0	190	190
487	Cheetah Networks Pvt. Ltd.	0	188	188
488	Alien DNS Pvt. Ltd.	0	187	187
489	Frontier Infra Communications(P) Ltd.	0	187	187

S. No.	Name of Service Provider	Narrowband	Broadband	Total
490	M-TEL Networks (P) Ltd	0	186	186
491	SFOUR CABLENET PVT LTD	0	185	185
492	Shreepad Communication Pvt. Ltd.	0	185	185
493	AIRMAX INTERNET PVT LTD	0	181	181
494	Chaitali Communications (OPC) Pvt.Ltd	0	181	181
495	VMO BROADBAND PVT LTD	0	180	180
496	White Stallion Networks Pvt. Ltd.	0	179	179
497	Wi5 Internet Services Pvt. Ltd.	0	176	176
498	JAYBHOLE CABLE VISION PRIVATE LIMITED	0	173	173
499	Rae Internet Service Provider Pvt Ltd	0	171	171
500	S.V.C CABLE NET PRIVATE LIMITED	0	171	171
501	CINFOGEN PRIVATE LIMITED	0	170	170
502	PMG Networks Pvt. Ltd.	0	170	170
503	Sify Technologies Ltd.	0	170	170
504	Optisky Fibernet Pvt. Ltd.	0	168	168
505	Costel Networks Pvt. Ltd.	0	167	167
506	Fabnet Services Private Limited	0	167	167
507	Oistel Telecom Pvt. Ltd.	0	166	166
508	Fibernetisp Pvt. Ltd.	0	162	162
509	SPARKLIGHT INTERNET PRIVATE LIMITED	0	162	162
510	Wifi Inter-connect Pvt. Ltd.	0	162	162
511	MANAS INTERNET TECHNOLOGY PRIVATE LIMITED	0	160	160
512	ARP INFONET PVT. LTD.	0	159	159
513	PRSHREE NETWORKS PRIVATE LIMITED	0	157	157
514	Achiever Communication and Services Pvt. Ltd.	0	153	153
515	Airfiber IT Solutions Pvt. Ltd.	0	152	152
516	Noob Technologies Pvt.Ltd	0	152	152
517	Pyramid Infocom Pvt. Ltd.	0	152	152
518	NEXTGEN COMPUSOFT PVT LTD	0	151	151
519	Prateek Netconnect Pvt. Ltd	0	150	150
520	SRI RAM BROADBAND SERVICES PRIVATE LIMITED	0	150	150
521	Triple Link Pvt. Ltd.	0	144	144
522	VISHWAKARMA BROADBAND PRIVATE LIMITED	0	143	143
523	Ezeenet Internet Solutions Pvt. Ltd.	0	142	142
524	LIGHT AIR TRANSMISSION PVT. LTD.	0	138	138
525	Sath Technologies Pvt. Ltd.	0	137	137
526	JD Net Enterprises Pvt. Ltd	0	135	135
527	Mediatech Communication Pvt. Ltd.	0	135	135
528	Galvin Broadband (OPC) Pvt. Ltd.	0	130	130
529	Rita Infocom Pvt. Ltd.	0	129	129
530	GauravCommunication Pvt. Ltd	0	127	127

S. No.	Name of Service Provider	Narrowband	Broadband	Total
531	MLC INTERNET PVT LTD	0	126	126
532	LINKUNIVERSE COMMUNICATION PRIVATE LIMITED	0	125	125
533	Linkup Networks Pvt. Ltd.	0	125	125
534	A-Net Communication India Pvt.Ltd.	0	123	123
535	NT CYBRONET PRIVATE LIMITED	0	123	123
536	Shree Siddhivinayak Cable And Internet Service Provider Private Limited.	0	120	120
537	LEVOTEL BIGNET SOLUTIONS PRIVATE LIMITED	0	118	118
538	V NET NETWORKS PVT. LTD	0	118	118
539	ASVISH TECHNOLOGY PARTNER (OPC) PVT LTD	0	116	116
540	Sharktel Infocom Pvt. Ltd.	0	116	116
541	YOTTA NETWORK SERVICES PRIVATE LIMITED	0	115	115
542	Pronoc Technologies Pvt. Ltd.	0	113	113
543	Japra Tele Link Pvt. Ltd.	0	110	110
544	SmchondheCommunication Pvt. Ltd	0	110	110
545	Durga Broadband Pvt. Ltd.	0	108	108
546	Sreedevi Communications Private Limited	0	107	107
547	Telstra Telecommunications Private Limited	0	105	105
548	AxomNet Broadband Pvt. Ltd.	0	103	103
549	CLOUDINSTA24 SERVICES PRIVATE LIMITED	0	103	103
550	ROYAL WIRELESS SERVICES PVT LTD	0	102	102
551	Invensys Networks Pvt.Ltd.	0	101	101
552	NR IT Service Pvt. Ltd.	0	100	100
553	FLIX BROADBAND SERVICES PRIVATE LIMITED	0	99	99
554	Jetato Skynet Services Pvt. Ltd.	0	98	98
555	Broad Net India Pvt. Ltd.	0	97	97
556	Skynet Broadband Pvt. Ltd.	0	96	96
557	Skyney Broadband Pvt Ltd	0	96	96
558	Amity Hua Electronics Pvt. Ltd.	0	95	95
559	Magica Networking Solutions Pvt. Ltd.	0	94	94
560	GIGHZ IT SOLUTIONS PRIVATE LIMITED	0	93	93
561	Satpar Infotech Pvt Ltd	0	93	93
562	Veer Point Pvt. Ltd.	0	91	91
563	Winet Infratel Pvt. Ltd.	0	90	90
564	INFINITY WIRELESS SERVICES PVT. LTD.	0	89	89
565	S A Internet Solution Pvt Ltd	0	89	89
566	YNET TELECOM SOLUTIONS PVT LTD	0	89	89
567	Gaxiom Networking Solutions Private Limited	0	88	88
568	Aspire Broadband Pvt. Ltd.	23	63	86
569	Vaishnavaiabhavi Internet Solutions Private Limited	0	86	86
570	ASHOKA NETSOL PVT LTD	0	84	84
571	Promptnet Broadband Pvt. Ltd.	0	81	81

S. No.	Name of Service Provider	Narrowband	Broadband	Total
572	G-Max IT Services Pvt. Ltd.	0	80	80
573	Omkar Net Services Pvt. Ltd.	0	80	80
574	Sanavi Infotech (OPC) Pvt. Ltd.	0	80	80
575	NAS Broadband Pvt. Ltd	0	78	78
576	ANODIC TELENETWORK PRIVATE LIMITED	0	77	77
577	Jai Mata Di Telectronix Pvt. Ltd.	0	75	75
578	Shri Vinayagaa Internet Pvt Ltd	0	74	74
579	Hansin IT Services Private Limited	0	73	73
580	IndrayaniCommunication Pvt. Ltd	0	73	73
581	Netwire Internet Solutions Pvt. Ltd.	0	73	73
582	NR Data Service Pvt Ltd.	0	72	72
583	MABA SAFENET BROADBAND SERVICES PVT LTD	0	70	70
584	IKRA Broadband Private Limited	0	69	69
585	Ekdant Communication Pvt. Ltd.	0	66	66
586	Blueweb BroadbandServices Pvt. Ltd.	0	63	63
587	Broadstar Net India Pvt. Ltd.	0	60	60
588	Kim Broadband Services Pvt. Ltd.	0	60	60
589	SPEEDNET INFORMEDIA PVT LTD	0	60	60
590	Quantasoul Aiologix Pvt. Ltd.	0	59	59
591	Infiber Broadnet Pvt. Ltd.	0	56	56
592	MALACHANDRA BROADBAND SERVICES PRIVATE LIMITED	0	55	55
593	Aamak Network Pvt. Ltd.	0	54	54
594	Bloglytics Internet Pvt.Ltd	0	54	54
595	Ncore Creative Technologies Pvt. Ltd	54	0	54
596	VIDARBHA WI-FI AND NETWORK SERVICES PVT LTD.	0	52	52
597	Highnet Broadband & Technologies Pvt. Ltd.	0	49	49
598	Guru Netcom Pvt. Ltd.	0	48	48
599	Nextra Teleservices Pvt. Ltd.	0	48	48
600	A M Broadband Pvt.Ltd	0	47	47
601	Fibernet Solutions (OPC) Pvt. Ltd.	0	47	47
602	Streamax Broadband Services Pvt. Ltd	0	47	47
603	S.G.I.C SERVICES PRIVATE LIMITED	0	46	46
604	Samruddhi Communication Pvt. Ltd.	0	46	46
605	Nivid Telecom India Private Limited	0	44	44
606	NSD Internet Private Limited	0	44	44
607	JAGUAR BYTE TECHNOLOGY PRIVATE LIMITED	0	43	43
608	Ajay Cable & Broadband Service OPC Pvt. Ltd	0	42	42
609	SAMVAD TELECOM	0	42	42
610	Edge Telecommunications Pvt. Ltd.	40	0	40
611	Jmohit Cable Vision Pvt. Ltd.	0	40	40
612	TLN COMMUNICATION PRIVATE LIMITED	0	40	40

S. No.	Name of Service Provider	Narrowband	Broadband	Total
613	FASTJET TELECOM PRIVATE LIMITED	0	39	39
614	Gigalo Communication Private Limited	0	39	39
615	Divine Broadband Services Pvt. Ltd.	0	38	38
616	Excel UG Pvt. Ltd	0	35	35
617	FASTHOOK NETWORKS PVT LTD	0	35	35
618	Tarantula WebNetworks Pvt. Ltd.	0	34	34
619	Mesh Infranet Pvt. Ltd.	0	32	32
620	Bajpai Telecom Pvt. Ltd.	0	30	30
621	Bilal Internet Services Private Limited	0	28	28
622	Skynet Zone Wifi Services (P) Ltd.	0	28	28
623	RAJNET CARE PRIVATE LIMITED	0	27	27
624	WE INTERNET LIMITED	0	27	27
625	Nelco Ltd.	0	26	26
626	Praveen Telecom Pvt. Ltd.	0	26	26
627	SMPL Networks Pvt. Ltd.	0	26	26
628	Spacetrade Internet Pvt Ltd	0	26	26
629	Aerocast Networks Pvt Ltd.	0	25	25
630	DRONAGIRI INFOTECH PVT LTD	0	25	25
631	Sudhana Telecommunication Pvt Ltd.	0	25	25
632	Doonbroadband Pvt. Ltd.	0	24	24
633	Orange Business Services India Network Pvt. Ltd.	0	23	23
634	Pacific Internet India Pvt. Ltd.	0	23	23
635	ULTRAWAVE INTERNET ACCESS PVT LTD	3	20	23
636	Smartware Technologies Pvt. Ltd.	0	22	22
637	Pintwire Infomatics Pvt. Ltd.	0	21	21
638	Passcom System and Services Pvt. Ltd.	0	19	19
639	Kartik Network Pvt. Ltd.	0	18	18
640	Sun Broadband and Data Services PVT. LTD.	0	18	18
641	ERNET India	0	17	17
642	Angrow Netcomm Pvt. Ltd.	0	15	15
643	Microtel Internet Network Pvt. Ltd.	0	15	15
644	Hienet Internet Services Pvt. Ltd.	0	14	14
645	Marutham Networks Pvt. Ltd.	0	14	14
646	Pier Communication Pvt. Ltd	0	12	12
647	Fibmesh IN Limited	0	10	10
648	Mastek Infosystems OPC Pvt. Ltd.	0	10	10
649	VISHVA INFRATEL PRIVATE LIMITED	0	10	10
650	WORLD PHONE INTERNET SERVICES PVT LTD	0	9	9
651	Tatanet Services Ltd	0	8	8
652	Uttradoon Networks Pvt. Ltd.	0	8	8
653	CIFY IT Services Pvt. Ltd.	0	7	7

S. No.	Name of Service Provider	Narrowband	Broadband	Total
654	Clear Beam Communication Pvt. Ltd.	0	7	7
655	Financial Technologies Communication Ltd.	0	7	7
656	Riyaz Internet Services Pvt. Ltd.	0	7	7
657	A TO Z INFOLINK PVT. LTD.	0	6	6
658	Upnet Communications Pvt. Ltd.	0	6	6
659	Aristo Telenet Pvt Ltd	0	5	5
660	Ceralink Communication Pvt Ltd	5	0	5
661	Critel Technologies Pvt. Ltd.	0	5	5
662	Heramb T-10 Network Pvt. Ltd..	0	5	5
663	ZAPTIC PRIVATE LIMITED	0	5	5
664	CLOUD8IN TECHNOLOGIES PRIVATE LIMITED	0	4	4
665	ESP Fibernet Pvt. Ltd.	0	4	4
666	ESTO MEDIA PRIVATE LIMITED	0	4	4
667	UBERCORE DATA LABS PVT LTD	0	4	4
668	AGILE NETLINK PRIVATE LIMITED	0	3	3
669	Cloudcast Digital Ltd.	0	3	3
670	Hybrid Hash Pvt. Ltd.	0	2	2
671	Sabse Internet Service Provider Pvt. Ltd.	0	2	2
672	AKD NETWORK PRIVATE LIMITED	0	1	1
673	FLYFAST CONNECTIONS Pvt. LTD	0	1	1
674	Sahiba Silk Mills Pvt. Ltd.	0	1	1
675	SHYAM DATA & VOICE SERVICES PVT LTD	0	1	1
	Total	35918260	800940904	836859164
	Total (in million)	35.91826	800.9409	836.85916

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 30th June, 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	7313	19747	329873	382825
Assam	788	1715	19828	39044
Bihar	3781	14058	223899	790994
Delhi	11790	23206	2000060	8966692
Gujarat	4025	13114	518996	1332398
Haryana	2101	6280	39078	215049
Himachal Pradesh	1049	2204	11641	12716
Jammu & Kashmir	1505	3332	61681	23614
Karnataka	5686	25690	305592	134523
Kerala	3638	7828	386428	242708
Kolkata	543	7839	94337	59825
Madhya Pradesh	4909	24110	132317	239191
Maharashtra	5036	14386	145146	289036
Mumbai	1187	15275	920747	160484
Northeast	1570	3487	59198	71510
Odisha	2121	3604	53215	116291
Punjab	5702	8516	66997	309862
Rajasthan	3346	8529	121031	99441
Tamil Nadu (including Chennai Service Area)	2345	7964	70777	88781
Uttar Pradesh East	28268	115482	135979	363268
Uttar Pradesh West	1790	7122	63566	132927
West Bengal	1713	3353	185881	145563
Total	100206	336841	5946267	14216743

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

** There is major difference in Unique Wi-Fi Users and Consumption Data from previous quarter (March-2022) due to submission of incorrect information by M/s Tata Teleservices Ltd. and M/s GTPL Broadband Ltd.

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

S. No.	Name of Service Providers reported IP Telephony Minutes as on 30th June 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	
				31.03.2022	30.06.2022
1	Andhra Pradesh	Hyderabad	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	3,036	2,910
			QuickCall	1,048	988
		Visakhapatnam	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	4,006	3,902
Total				8,090	7,800
2	Delhi	Delhi	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,690	7,355
			Procall Ltd.	3,087	3,680
		Total			
3	Gujarat	Ahmedabad	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,001	954
		Amrela	Inative Networks Pvt. Ltd.	-	-
		Bharuch	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,501	1,511
			Inative Networks Pvt. Ltd.	-	-
		Dahej	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,471	1,484
		Jamnagar	Inative Networks Pvt. Ltd.	360	360
		Kutch	Inative Networks Pvt. Ltd.	205	205
		Surat	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,749	1,755
			Inative Networks Pvt. Ltd.	895	895
Vadodara	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,942	1,886		
Total				9,484	9,410
4	Karnataka	Bangalore	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,360	7,446
			QuickCall	480	480
		Total			
5	Kerala	Ernakulam	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,020	998
		Kerala	Wiwanet Solutions Pvt. Ltd	1,041	1,046
		Total			
6	Kolkata	Kolkata	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,782	1,545
7	Madhya Pradesh	Indore	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,723	1,753
8	Maharashtra	Pune	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	2,143	2,113
			Smartalk Pvt Ltd.	720	704
		Total			
9	Mumbai	Mumbai	Airtalk Solutions & Services Pvt. Ltd.	525	550
			Arya Omnitalk Radio Trunking Services Pvt.Ltd.	9,658	9,690
			Bhilwara Telenet Services Pvt.Ltd.	926	876
			Smartalk Pvt Ltd.	979	897
			Total		
10	Rajasthan	Jaipur	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	880	880
			Procall Ltd.	423	498
		Total			
11	Tamil Nadu	Chennai	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,876	7,822
			QuickCall	505	505
		Total			
Grand Total				66,392	66,048

**Annexure 2.1: Wireless Revenue Service - Service Area wise Statistics for
QE June, 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	93.55%	157	13	448	440	888
Gujarat	93.87%	142	16	379	365	744
Karnataka	90.96%	155	16	452	440	892
MH	93.84%	147	28	387	381	768
TN (incl. Chennai)	91.52%	160	11	413	411	824

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	93.33%	108	8	406	404	810
Kerala	96.59%	151	7	309	315	624
MP	95.13%	127	14	443	445	887
Punjab	94.35%	137	9	399	390	789
Rajasthan	95.74%	134	13	456	460	916
UP(E)	96.49%	107	11	535	556	1091
UP(W)	96.46%	116	11	447	458	906
WB	97.63%	123	15	483	495	978

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	96.98%	137	27	506	522	1028
Bihar	95.92%	120	12	619	659	1278
HP	97.52%	138	10	416	414	830
J&K	43.23%	156	26	583	549	1131
NE	97.56%	165	28	451	458	909
Odisha	96.51%	131	17	540	556	1095

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	93.08%	100	12	414	401	815
Delhi	71.98%	113	14	482	438	921
Mumbai	78.64%	125	9	417	369	787

Annexure 4.1: Performance of QoS Parameters for Cellular Mobile Service

LSA Name	TSP Name	Network Related Parameters											Customer Service Quality Parameters								
		Network Availability		Connection Establishment (Accessibility)			Connection Maintenance (Retainability)			POI			Metering and Billing				Response time to the customer for assistance		Termination / closure of service		
		BS Accumulated down-time (not available for service) (%age)	Worst affected BSs due to down-time (%age)	Call Set-up Success Rate and Session Establishment Success Rate for Circuit Switched Voice or VoLTE as applicable	SDCCH/Paging Channel Congestion/RRC Congestion (%age)	TCH, RAB and E-RAB Congestion (%age)	Network QoS DCR Spatial Distribution Measure [Network_QSD(90,90)]	Network QoS DCR Temporal Distribution Measure [Network_QTD(97,90)]	Connections with good voice quality, Circuit Switched Voice Quality and VoLTE quality	Point of Interconnection (POI) Congestion (on individual POI) - No. of POIs not meeting the benchmark	Down Link (DL) Packet Drop Rate or DL-PDR	Up Link (UL) Packet Drop Rate or UL-PDR	Metering and billing credibility - post paid	Metering and billing credibility - pre paid	Resolution of billing/charging complaints- within 4 weeks	Resolution of billing/charging complaints- within 6 weeks	Period of applying credit/waiver/ adjustment to customer's account from the date of resolution of complaints	Accessibility of call center/customer care	Percentage of calls answered by the operators (voice to voice) within 90 seconds	%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	100% within 1 week of resolution of complaint	=>95	=>95	100% within 7 days	100% within 60 days
Andhra Pradesh	AIRTEL	0.29	1.65	99.56	0.19	0.28	1.19	1.35	96.31	0	0.14	0.11	0.03	0	100	100	100	100	97.61	100	100
	BSNL	1.43	1.87	98.48	0.79	0.58	1.63	1.77	98.65	0	0.1	0.18	0	0	100	100	100	95.76	57.64	100	100
	RJIL	0.1	0.18	99.58	0.02	0	0.15	0.24	99.97	0	0	0.06	0	0	100	100	100	98.01	98.74	100	100
	VIL	0.05	0.2	99.18	0.3	0.27	1.69	2.43	97.98	0	0.01	0.17	0	0	100	100	100	99.05	99.99	100	100
Assam	AIRTEL	0.33	1.18	98.69	0.31	0.77	1.67	1.97	96.89	0	0.18	0.18	0.03	0	100	100	100	100	95.27	100	100
	BSNL	1.92	0.65	98.23	0.88	1.84	1.98	2.71	98.31	0	1.61	1.82	0.02	0	100	100	100	96.4	96.75	100	100
	RJIL	0.35	1.33	99.61	0	0	0.45	0.81	99.95	0	0	0.1	0	0	100	100	100	98.35	99.1	100	100
	VIL	0.35	1.83	99.26	0.4	0.71	1.84	2.73	98.55	0	0.09	0.12	0	0	100	100	100	98.76	99.86	100	100
Bihar	AIRTEL	0.29	0.14	98.15	0.29	0.74	1.5	1.64	98.19	0	0.14	0.36	0.04	0	100	100	100	100	97.67	100	100
	BSNL	1.96	0.63	95.56	0.34	0.33	1.78	2.25	98.1	0	0	0	0	0	100	100	100	100	100	100	100
	RJIL	0.22	0.9	99.36	0	0	0.31	0.43	99.96	0	0	0.07	0	0	100	100	100	98.28	98.7	100	100
	VIL	0.13	1.72	99.77	0.13	0.12	1.47	2.16	99.38	0	0	0.02	0	0	100	100	100	96.71	99.93	100	100
Delhi	AIRTEL	0.19	1.34	99.5	0.19	0.22	1.8	2.24	95.29	0	0.46	0.19	0.02	0	100	100	100	100	95.97	100	100
	MTNL	0.06	0.33	97.45	0.06	0.84	1.29	1.47	98.3	0	NA	NA	0	0	100	100	100	99.91	99.5	100	100
	RJIL	0.14	0.37	99.43	0	0	0.11	0.25	99.97	0	0	0.06	0	0	100	100	100	98.38	99.19	100	100
Gujarat	VIL	0.09	0.36	99.84	0.07	0.15	1.09	1.75	99.71	0	0.17	0.27	0.01	0.01	100	100	100	99.01	99.99	100	100
	AIRTEL	0.1	0.37	99.31	0.22	0.29	1.67	2.3	95.78	0	0.08	0.19	0.03	0	100	100	100	100	96.58	100	100
	BSNL	1.48	0.4	98.08	0.18	0.58	1.29	2.22	98.24	0	0.08	0.17	0	0	100	100	100	98.85	95.46	100	100
	RJIL	0.1	0.19	99.65	0.01	0	0.11	0.28	99.97	0	0	0.06	0	0	100	100	100	98.37	99.01	100	100
Haryana	VIL	0.06	0.18	99.65	0.08	0.23	1.64	2.35	98.51	0	0.15	0.16	0.01	0	100	100	100	98.09	100	100	100
	AIRTEL	0.15	0.97	99.65	0.14	0.17	1.11	1.56	95.21	0	0.14	0.19	0.02	0	100	100	100	100	97.21	100	100
	BSNL	0.6	0.08	98.86	0.27	0.6	1.59	1.77	97.4	0	0.17	0.46	0.02	0	100	100	100	97	99.92	100	100
	RJIL	0.1	0.34	99.58	0	0	0.1	0.28	99.98	0	0	0.04	0	0	100	100	100	98.57	99.21	100	100
Himachal Pradesh	VIL	0.17	0.71	99.74	0.31	0.25	1.46	2.33	98.79	0	0.12	0.96	0	0	100	100	100	98.18	99.97	100	100
	AIRTEL	0.13	0.75	99.73	0.13	0.07	1.85	2.02	96.26	0	0.15	0.11	0.03	0	100	100	100	100	97.46	100	100
	BSNL	1.92	0.34	97.99	0.76	1.14	1.93	1.09	97.29	0	0	0	0.01	0	100	100	100	98.82	95.65	100	100
	RJIL	0.1	0.24	99.67	0.04	0	0.12	0.25	99.98	0	0	0.05	0	0	100	100	100	98.69	99.33	100	100
Jammu & Kashmir	VIL	0.12	0.52	99.52	0.03	0.16	1.82	2.53	97.26	0	0.22	0.27	0.03	0	100	100	100	99.9	99.95	100	100
	AIRTEL	0.3	1.95	99.34	0.07	0.07	0.84	1.52	95.84	0	0.16	0.15	0.01	0	100	100	100	100	96.85	100	100
	BSNL	1.86	0.61	97.38	0.96	1.07	1.99	2.63	95.96	0	0.21	0.11	0	0	100	100	100	99	99.86	100	100
	RJIL	0.14	0.53	99.65	0.01	0	0.2	0.32	99.97	0	0	0.06	0	0	100	100	100	98.13	99.52	100	100
VIL	0.05	1.88	99.58	0.43	0.19	1.75	2.7	97.79	0	0.18	0.19	0	0	100	100	100	99.76	99.98	100	100	

Annexure 4.1 (Contd.)

Karnataka	AIRTEL	0.1	0.59	99.76	0.11	0.12	0.91	1.21	95.74	0	0.18	0.12	0.04	0	100	100	100	100	96.9	100	100	
	BSNL	1.71	0.56	97.89	0.55	0.5	1.53	1.64	97.52	0	1.25	1.01	0	0	99.84	100	100	100	87.46	62.91	100	100
	RJIL	0.09	0.12	99.54	0.01	0	0.12	0.28	99.97	0	0	0.06	0	0	100	100	100	100	97.52	99.27	100	100
	VIL	0.17	0.48	99.77	0.29	0.22	1.79	2.33	99.07	0	0.13	0.14	0.01	0.01	100	100	100	100	97.13	99.98	100	100
Kerala	AIRTEL	0.13	0.41	99.64	0.2	0.43	1.72	2.5	96.97	0	0.12	0.39	0.03	0	100	100	100	100	92.91	100	100	
	BSNL	0.38	0.25	98.94	0.27	0.55	1.82	2.26	98.56	0	0.06	0.19	0	0	100	100	100	100	96.8	45.2	100	100
	RJIL	0.05	0.1	99.77	0.03	0	0.07	0.42	99.97	0	0	0.06	0	0	100	100	100	100	98.37	99.02	100	100
	VIL	0.06	0.03	99.65	0.18	0.34	0.74	1.11	99	0	0.06	0.12	0.02	0.01	100	100	100	100	98.05	99.82	100	100
Kolkata	AIRTEL	0.08	0	99.86	0.24	0.25	1.45	2.86	98.13	0	0.13	0.25	0.04	0	100	100	100	100	100	94.59	100	100
	BSNL	0.33	0.56	98.78	0.08	0.19	1.37	1.55	96.61	0	0	0	0	0.01	98.2	100	100	100	97.37	97.3	100	100
	RJIL	0.02	0.02	99.61	0.01	0	0.07	0.27	99.98	0	0	0.04	0	0	100	100	100	100	97.94	99.08	100	100
	VIL	0.06	0.22	99.91	0.08	0.09	0.78	1.18	98.47	0	0.08	0.13	0.02	0.01	100	100	100	100	98.33	99.95	100	100
Madhya Pradesh	AIRTEL	0.16	0.46	99.11	0.12	0.22	1.71	2.17	97.1	0	0.07	0.13	0.03	0	100	100	100	100	100	98.32	100	100
	BSNL	1.22	0.33	98.89	0.41	1.1	1.85	2.07	98.55	0	0	0	0	0.01	100	100	100	100	98.78	98.36	100	100
	RJIL	0.17	0.65	99.62	0	0	0.3	0.41	99.96	0	0	0.07	0	0	100	100	100	100	98.23	99.22	100	100
	VIL	0.14	0.6	98.94	0.44	0.65	1.69	2.27	97.63	0	0.2	0.13	0.02	0.02	100	100	100	100	96.43	99.96	100	100
Maharashtra	AIRTEL	0.1	0.04	99.39	0.23	0.19	1.46	1.72	97.38	0	0.08	0.14	0.03	0	100	100	100	100	100	97.16	100	100
	BSNL	1.75	0.62	97.5	0.63	0.88	1.85	2.62	97.2	0	0.06	0.17	0.01	0	99	100	100	100	99.47	96.12	100	100
	RJIL	0.38	1.66	99.6	0.03	0	0.23	0.33	99.96	0	0	0.08	0	0	100	100	100	100	98.23	99.27	100	100
	VIL	0.26	0.78	97.77	0.88	1.18	1.82	2.78	96.76	0	0.35	0.12	0.02	0	100	100	100	100	97.58	99.99	100	100
Mumbai	AIRTEL	0.18	0.78	99.11	0.19	0.45	1.54	1.82	96.17	0	0.15	0.18	0.02	0	100	100	100	100	100	97.12	100	100
	MTNL	0.4	1.3	98.1	0.5	0.2	1.76	2.86	98.29	0	NA	NA	0	0	100	100	100	100	100	99.94	100	100
	RJIL	0.25	0.71	99.62	0.18	0	0.1	0.21	99.97	0	0	0.07	0	0	100	100	100	100	98.2	98.93	100	100
	VIL	0.05	0.05	99.79	0.06	0.21	1.47	2.02	98.72	0	0.14	0.2	0.01	0.01	99.97	100	100	100	97.36	99.99	100	100
North East	AIRTEL	0.44	0.98	98.61	0.56	1.1	1.82	2	97.94	0	0.2	0.18	0.01	0	100	100	100	100	100	93.33	100	100
	BSNL	1.92	0.45	97.99	0.84	1.05	1.77	1.74	97	0	0	0	0.05	0.05	100	100	100	100	96	96.1	100	100
	RJIL	1.26	1.72	99.45	0	0	0.72	1.29	99.94	0	0.01	0.11	0	0	100	100	100	100	98.28	99.25	100	100
	VIL	0.6	1.88	99.53	0.3	0.43	1.95	2	98.65	0	0.16	0.13	0.01	0	100	100	100	100	98.71	99.96	100	100
Odisha	AIRTEL	0.05	0.06	98.62	0.15	0.43	1.65	1.75	96.97	0	0.08	0.17	0.03	0	100	100	100	100	100	97.53	100	100
	BSNL	1.26	0.65	96.66	0.66	1.56	1.89	1.9	95.59	0	0	0	0	0	100	100	100	100	96.2	96.2	100	100
	RJIL	0.11	0.29	99.59	0.03	0	0.24	0.35	99.96	0	0	0.08	0	0	100	100	100	100	98.44	99.19	100	100
	VIL	0.03	0.14	99.88	0.07	0.1	1.67	2.5	98.91	0	0.04	0.1	0.01	0	100	100	100	100	98.86	99.95	100	100
Punjab	AIRTEL	0.08	0.4	99.49	0.12	0.2	1.05	1.29	97.92	0	0.1	0.25	0.04	0	100	100	100	100	100	96.3	100	100
	BSNL	0.77	0.47	98.24	0.47	0.33	1.8	2.22	97.24	0	0.01	0.14	0.01	0	100	100	100	100	96	96	100	100
	RJIL	0.08	0.17	99.59	0	0	0	0.13	99.98	0	0	0.04	0	0	100	100	100	100	98.61	99.11	100	100
	VIL	0.05	0.18	99.71	0.1	0.28	0.44	0.97	99.37	0	0.1	0.14	0.01	0	100	100	100	100	96.24	99.97	100	100
Rajasthan	AIRTEL	0.27	0.94	99.01	0.14	0.4	1.39	1.79	98.22	0	0.21	0.13	0.03	0	100	100	100	100	100	98	100	100
	BSNL	1.19	0.49	98.74	0.74	1.26	1.89	2.56	98.41	0	0	0	0.01	0	100	100	100	100	97.1	95.57	100	100
	RJIL	0.09	0.19	99.67	0.01	0	0.24	0.35	99.97	0	0	0.05	0	0	100	100	100	100	98.41	99.25	100	100
	VIL	0.14	0.41	99.39	0.24	0.32	1.87	2.73	98.81	0	0.16	0.18	0.01	0	100	100	100	100	98.55	99.91	100	100
Tamilnadu including Chennai	AIRTEL	0.08	0.25	99.78	0.12	0.14	1.39	2.17	96.93	0	0.3	0.15	0.03	0	100	100	100	100	100	97.05	100	100
	BSNL	0.91	0.58	99.11	0.44	0.44	1.85	2.86	98.12	0	0	0	0	0	100	100	100	100	92.03	63.28	100	100
	RJIL	0.05	0.09	99.66	0.01	0	0.1	0.21	99.97	0	0	0.05	0	0	100	100	100	100	97.93	99.44	100	100
	VIL	0.16	0.66	99.22	0.65	0.74	1.79	2.33	98.38	0	0.08	0.13	0.02	0	100	100	100	100	97.28	99.99	100	100
Uttar Pradesh (East)	AIRTEL	0.19	0.86	99.29	0.32	0.23	1.19	1.49	98.31	0	0.12	0.22	0.03	0	100	100	100	100	100	98.18	100	100
	BSNL	1.57	0.66	98.91	0.91	0.2	1.77	2.56	97.81	0	0.08	0.44	0.05	0.01	100	100	100	100	96.79	99.75	100	100
	RJIL	0.28	1.43	99.48	0	0	0.18	0.29	99.97	0	0	0.05	0	0	100	100	100	100	98.61	99.1	100	100
	VIL	0.21	0.25	99.36	0.56	0.6	1.85	2.56	97.81	0	0.1	0.18	0.01	0.01	100	100	100	100	99.28	99.95	100	100
Uttar Pradesh (West)	AIRTEL	0.25	0.51	99.7	0.14	0.14	1.5	1.91	95.67	0	0.12	0.2	0.04	0	100	100	100	100	100	97.67	100	100
	BSNL	1.86	0.64	97.17	0.85	1.33	1.74	1.94	97.26	0	0	0	0	0	100	100	100	100	97.74	95.19	100	100
	RJIL	0.22	1.15	99.52	0.03	0	0.38	0.52	99.97	0	0	0.06	0	0	100	100	100	100	98.55	99.21	100	100
	VIL	0.15	0.49	99.26	0.67	0.66	1.75	2.31	97.39	0	0.09	0.16	0	0.01	100	100	100	100	95.01	99.93	100	100
West Bengal	AIRTEL	0.21	0.62	98.68	0.2	0.82	1.94	2.38	95.68	0	0.33	0.35	0.05	0	100	100	100	100	100	93.09	100	100
	BSNL	0.28	0.64	97.21	0.88	1.78	1.85	2.08	97.63	0	0.19	1.94	0	0.02	99	100	100	100	95	95.38	100	100
	RJIL	0.11	0.35	99.65	0.01	0	0.31	0.45	99.96	0	0	0.09	0	0	100	100	100	100	98.52	98.88	100	100
	VIL	0.15	0.87	99.84	0.08	0.15	1.72	2.5	97.99	0	0.09	0.17	0.02	0	100	100	100	100	98.29	99.88	100	100

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

LSA Name	TSP Name	Faults incidences (No. of faults/100 Subs/month)	Fault Repair				Mean Time to Repair (MTTR)	POI	Metering and Billing					Response time to the customer for assistance		Termination / closure of service		
			% of faults repaired by next working day - Urban	% of faults repaired within 5 days - Urban	% of faults repaired by next working day - Rural and hilly areas	% of faults repaired within 7 days- Rural and hilly areas			Point of Interconnection (POI) Congestion (No. of PoIs not meeting benchmark)	Metering and Billing Credibility - Postpaid	Metering and Billing Credibility - Prepaid	Resolution of billing/ charging/ validity complaints within 4 weeks	Resolution of billing/ charging/ validity complaints within 6 weeks	Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution of complaints- within 1 week of resolution of complaint	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- within 60 days
Andhra Pradesh	AIRTEL	0.56%	89.81%	100.00%	100.00%	100.00%	9.41%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	96.98%	100.00%	100.00%	
	BSNL	5.00%	98.00%	100.00%	98.00%	100.00%	6.00%	0	0.00%	0.00%	100.00%	100.00%	100.00%	98.03%	97.93%	100.00%	100.00%	
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	96.11%	100.00%	100.00%	100.00%	
	TATA	5.45%	95.99%	100.00%	100.00%	100.00%	5.07%	0	0.00%	NA	100.00%	100.00%	100.00%	99.66%	99.72%	100.00%	100.00%	
	VIL	0.09%	100.00%	100.00%	NA	NA	2.44%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA	
Assam	AIRTEL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	96.68%	100.00%	100.00%	
	BSNL	3.00%	90.00%	100.00%	92.00%	100.00%	3.00%	0	0.00%	0.00%	100.00%	100.00%	100.00%	97.88%	97.13%	100.00%	100.00%	
	RJIL	0.00%	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%	
	VIL	2.64%	100.00%	100.00%	NA	NA	9.49%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA	
Bihar	BSNL	4.00%	91.00%	100.00%	95.00%	100.00%	4.00%	0	0.01%	0.00%	98.00%	100.00%	100.00%	98.50%	98.50%	100.00%	100.00%	
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	96.74%	99.88%	100.00%	100.00%	
	TATA	0.60%	100.00%	100.00%	100.00%	100.00%	2.81%	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	
	VIL	1.41%	100.00%	100.00%	NA	NA	5.31%	0	NA	NA	NA	NA	NA	98.00%	100.00%	NA	NA	
Delhi	AIRTEL	0.59%	99.32%	100.00%	100.00%	100.00%	9.69%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	96.74%	100.00%	100.00%	
	MTNL	2.03%	81.33%	95.50%	NA	NA	6.66%	0	0.00%	NA	100.00%	100.00%	100.00%	99.91%	99.74%	100.00%	100.00%	
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	97.77%	99.37%	100.00%	100.00%	
	TATA	3.62%	98.80%	100.00%	100.00%	100.00%	2.81%	0	0.00%	NA	100.00%	100.00%	100.00%	99.56%	99.44%	100.00%	100.00%	
	VIL	0.34%	100.00%	100.00%	NA	NA	1.38%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA	

Annexure 4.2 (Contd.)

Gujarat	AIRTEL	0.54%	90.52%	100.00%	100.00%	100.00%	7.72%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	97.72%	100.00%	100.00%
	BSNL	5.00%	95.00%	100.00%	94.00%	100.00%	5.00%	0	0.01%	0.00%	100.00%	100.00%	100.00%	99.61%	99.59%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	98.21%	100.00%	100.00%	100.00%
	TATA	1.48%	85.37%	100.00%	100.00%	100.00%	8.99%	0	0.00%	NA	100.00%	100.00%	100.00%	99.73%	100.00%	100.00%	100.00%
	VIL	0.14%	100.00%	100.00%	NA	NA	3.35%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA
Haryana	AIRTEL	1.16%	93.74%	100.00%	100.00%	100.00%	6.76%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	96.47%	100.00%	100.00%
	BSNL	5.00%	91.00%	100.00%	90.00%	100.00%	5.00%	0	0.06%	0.00%	100.00%	100.00%	100.00%	98.90%	99.86%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	100.00%	99.54%	100.00%	100.00%
	TATA	0.12%	100.00%	100.00%	100.00%	100.00%	5.98%	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	1.52%	100.00%	100.00%	NA	NA	1.50%	0	NA	NA	NA	NA	NA	98.00%	100.00%	NA	NA
Himachal Pradesh	AIRTEL	0.29%	95.00%	100.00%	100.00%	100.00%	7.26%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.04%	100.00%	100.00%
	BSNL	5.00%	92.00%	100.00%	91.00%	100.00%	7.00%	0	0.04%	0.00%	98.59%	100.00%	100.00%	100.00%	99.91%	100.00%	95.60%
	RJIL	0.00%	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%
	TATA	0.00%	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%
	VIL	0.00%	100.00%	100.00%	NA	NA	0.00%	0	NA	NA	NA	NA	NA	98.00%	100.00%	NA	NA
Jammu & Kashmir	AIRTEL	0.38%	88.66%	100.00%	100.00%	100.00%	8.77%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.97%	100.00%	100.00%
	BSNL	4.00%	96.00%	100.00%	99.00%	100.00%	7.00%	0	0.01%	0.00%	98.00%	100.00%	100.00%	100.00%	99.83%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	98.41%	100.00%	100.00%	100.00%
	VIL	0.00%	100.00%	100.00%	NA	NA	0.00%	0	NA	NA	NA	NA	NA	98.00%	100.00%	NA	NA
Karnataka	AIRTEL	0.52%	88.35%	100.00%	100.00%	100.00%	9.57%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	96.66%	100.00%	100.00%
	BSNL	7.00%	90.00%	100.00%	88.00%	100.00%	6.00%	0	0.09%	0.00%	98.00%	100.00%	100.00%	98.35%	98.28%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	96.77%	99.65%	100.00%	100.00%
	TATA	0.19%	89.09%	100.00%	100.00%	100.00%	10.76%	0	0.00%	NA	100.00%	100.00%	100.00%	99.88%	99.64%	99.86%	100.00%
	VIL	0.13%	100.00%	100.00%	NA	NA	5.36%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA
Kerala	AIRTEL	0.86%	89.35%	100.00%	100.00%	100.00%	9.28%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	95.70%	100.00%	100.00%
	BSNL	5.00%	92.00%	100.00%	91.00%	100.00%	7.00%	0	0.02%	0.00%	100.00%	100.00%	100.00%	98.10%	98.10%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	98.33%	100.00%	100.00%	100.00%
	TATA	0.11%	100.00%	100.00%	100.00%	100.00%	1.87%	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.54%	100.00%	100.00%	NA	NA	2.38%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA
Kolkata	AIRTEL	0.10%	94.37%	100.00%	100.00%	100.00%	9.42%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.53%	100.00%	100.00%
	BSNL	6.00%	91.00%	100.00%	NA	NA	8.00%	0	0.00%	0.00%	98.00%	100.00%	100.00%	98.04%	98.04%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	97.96%	100.00%	100.00%	100.00%
	TATA	1.12%	100.00%	100.00%	100.00%	100.00%	2.09%	0	0.00%	NA	100.00%	100.00%	100.00%	98.13%	98.41%	100.00%	100.00%
	VIL	0.28%	100.00%	100.00%	NA	NA	3.30%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA
Madhya Pradesh	AIRTEL	0.19%	85.14%	100.00%	100.00%	100.00%	4.58%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	98.14%	100.00%	100.00%
	BSNL	6.00%	91.00%	100.00%	91.00%	100.00%	4.00%	0	0.01%	0.00%	100.00%	100.00%	100.00%	99.55%	99.45%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	97.22%	100.00%	100.00%	100.00%
	TATA	2.19%	100.00%	100.00%	100.00%	100.00%	1.08%	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.14%	100.00%	100.00%	NA	NA	5.18%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA
Maharashtra	AIRTEL	0.35%	90.86%	100.00%	100.00%	100.00%	7.79%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.36%	100.00%	100.00%
	BSNL	6.00%	89.00%	100.00%	76.00%	100.00%	8.00%	0	0.01%	0.00%	100.00%	100.00%	100.00%	99.78%	99.78%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	96.92%	100.00%	100.00%	100.00%
	TATA	1.70%	94.30%	100.00%	100.00%	100.00%	5.56%	0	0.00%	NA	100.00%	100.00%	100.00%	99.71%	99.84%	100.00%	100.00%
	VIL	0.45%	100.00%	100.00%	NA	NA	5.44%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA

Annexure 4.2 (Contd.)

Mumbai	AIRTEL	0.27%	92.51%	100.00%	100.00%	100.00%	6.91%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.32%	100.00%	100.00%
	MTNL	2.50%	57.80%	79.00%	NA	NA	34.96%	0	0.00%	NA	99.80%	100.00%	100.00%	99.91%	98.78%	99.84%	10.01%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	98.93%	100.00%	100.00%	100.00%
	TATA	3.87%	90.51%	100.00%	100.00%	100.00%	7.97%	0	0.00%	NA	100.00%	100.00%	100.00%	99.57%	99.57%	100.00%	100.00%
	VIL	0.14%	100.00%	100.00%	NA	NA	4.54%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA
North East	BSNL	4.00%	94.00%	100.00%	91.00%	100.00%	8.00%	0	0.01%	0.00%	100.00%	100.00%	100.00%	97.51%	97.51%	100.00%	100.00%
	RJIL	0.00%	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%
	VIL	0.00%	100.00%	100.00%	NA	NA	0.00%	0	NA	NA	NA	NA	NA	98.00%	100.00%	NA	NA
Odisha	BSNL	4.00%	96.00%	100.00%	89.00%	100.00%	8.00%	0	0.09%	0.00%	99.00%	100.00%	100.00%	97.70%	97.65%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	100.00%	99.30%	100.00%	100.00%
	TATA	5.34%	99.24%	100.00%	100.00%	100.00%	1.65%	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.47%	100.00%	100.00%	NA	NA	1.55%	0	NA	NA	NA	NA	NA	98.00%	100.00%	NA	NA
Punjab	AIRTEL	0.59%	93.57%	100.00%	100.00%	100.00%	5.16%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	96.73%	100.00%	100.00%
	BSNL	6.00%	91.00%	100.00%	89.00%	100.00%	6.00%	0	0.01%	0.00%	98.00%	100.00%	100.00%	100.00%	99.90%	100.00%	99.00%
	QTL	6.00%	89.00%	100.00%	100.00%	100.00%	5.92%	0	0.01%	0.00%	99.20%	100.00%	100.00%	98.90%	95.40%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	96.29%	100.00%	100.00%	100.00%
	TATA	0.32%	90.00%	100.00%	100.00%	100.00%	6.78%	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Rajasthan	VIL	0.33%	100.00%	100.00%	NA	NA	1.10%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA
	AIRTEL	0.45%	86.08%	100.00%	100.00%	100.00%	5.73%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	96.86%	100.00%	100.00%
	BSNL	5.00%	95.00%	100.00%	96.00%	100.00%	6.00%	0	0.07%	0.00%	99.00%	100.00%	100.00%	100.00%	99.78%	100.00%	0.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	96.08%	99.66%	100.00%	100.00%
	TATA	3.60%	100.00%	100.00%	100.00%	100.00%	2.72%	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Tamilnadu including Chennai	VIL	0.27%	100.00%	100.00%	NA	NA	3.00%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA
	AIRTEL	1.08%	91.24%	100.00%	100.00%	100.00%	8.99%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	95.40%	100.00%	100.00%
	BSNL	5.00%	95.00%	100.00%	90.00%	100.00%	6.00%	0	0.04%	0.00%	100.00%	100.00%	100.00%	98.64%	98.63%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	97.65%	100.00%	100.00%	100.00%
	TATA	0.39%	96.55%	100.00%	100.00%	100.00%	6.40%	0	0.00%	NA	100.00%	100.00%	100.00%	99.71%	100.00%	100.00%	100.00%
Uttar Pradesh (East)	VIL	0.38%	100.00%	100.00%	NA	NA	2.20%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA
	AIRTEL	0.18%	99.59%	100.00%	100.00%	100.00%	9.60%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	97.20%	100.00%	100.00%
	BSNL	7.00%	85.00%	100.00%	86.00%	100.00%	8.00%	0	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	99.89%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	97.37%	100.00%	100.00%	100.00%
	TATA	3.14%	100.00%	100.00%	100.00%	100.00%	1.22%	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	99.79%	100.00%	100.00%
Uttar Pradesh (West)	VIL	0.22%	100.00%	100.00%	NA	NA	2.12%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA
	AIRTEL	0.56%	92.77%	100.00%	100.00%	100.00%	6.35%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	97.20%	100.00%	100.00%
	BSNL	7.00%	93.00%	100.00%	94.00%	100.00%	7.00%	0	0.08%	0.00%	99.00%	100.00%	100.00%	100.00%	99.86%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	96.83%	99.85%	100.00%	100.00%
	TATA	2.30%	100.00%	100.00%	100.00%	100.00%	1.22%	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
West Bengal	VIL	1.48%	100.00%	100.00%	NA	NA	2.23%	0	NA	NA	NA	NA	NA	98.00%	100.00%	100.00%	NA
	BSNL	4.00%	87.00%	100.00%	79.00%	100.00%	6.00%	0	0.00%	0.00%	98.00%	100.00%	100.00%	98.28%	98.28%	100.00%	100.00%
	RJIL	0.00%	100.00%	100.00%	100.00%	100.00%	0.00%	0	0.00%	0.00%	NA	NA	NA	98.75%	98.45%	100.00%	100.00%
	TATA	0.00%	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%
VIL	1.11%	100.00%	100.00%	NA	NA	1.15%	0	NA	NA	NA	NA	NA	98.00%	100.00%	NA	NA	

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 %age	Packet loss (for wired broadband access) in %age	Network latency (for wired broadband access)		
			%age of connections provided within 11 days of registration of demand	% of faults repaired by next working day (90%)	% of faults repaired within 3 working days	%age of bills disputed	%age of billing complaints resolved within 4 weeks	%age of cases to whom refund of deposit is made within 60 days of closure	%age of calls answered by operator (Voice to voice) within 60 sec	%age of calls answered by operator (Voice to voice) within 90 sec	No. of Intra network links having Bandwidth utilisation >90% during peak hours (TCBH)	No. of Upstream links for international connectivity having bandwidth utilisation >90% during peak hours (TCBH)	% International bandwidth utilization during peak hours (TCBH) [Enclose MRTG <90%]	Broadband Connection Speed available (download) from ISP node to use	User reference point at POP/ISP Gateway node to ISP/NIKI	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			<350 ms	<800 ms	
1	Airfiber Networks Pvt. Ltd.	Karnataka	100.00	96.00	99.90	0.00	100.00	100.00	93.00	99.00	0.00	0.00	74.61	99.00	100.00	0.50	23.00	246.00	0.00			
		Tamilnadu	100.00	95.00	99.90	0.00	100.00	100.00	93.00	99.00	0.00	0.00	56.42	99.00	100.00	0.50	22.00	245.00	0.00			
2	Airlink Communications Pvt. Ltd.	All India	100.00	90.50	99.35	0.00	100.00	100.00	99.84	100.00	0.00	0.00	84.27	98.80	99.86	0.47	80.00	275.00	0.00			
3	Airnet Cable and Datacom Pvt.Ltd.	Maharashtra	100.00	98.33	100.00	0.00	100.00	100.00	95.00	100.00	0.00	0.00	2.37	100.00	100.00	0.49	4.00	225.00	0.00			
		Mumbai	100.00	93.00	99.00	0.16	100.00	100.00	87.00	94.00	0.00	0.00	18.62	100.00	100.00	0.53	4.00	228.00	0.00			
4	Alliance Broadband Services Pvt. Ltd.	All India	100.00	91.15	100.00	0.00	100.00	100.00	83.33	100.00	0.00	0.00	59.30	98.36	99.27	0.00	2.00	4.00	102.00			
5	Angel Air Network Solutions Private Limited	Punjab	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	81.00	90.00	100.00	0.00	20.00	25.00	40.00			
		Rajasthan	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	81.00	90.00	100.00	0.00	20.00	25.00	40.00			
6	ANI NETWORK PVT LTD	Delhi	100.00	93.00	100.00	0.00	100.00	100.00	99.00	100.00	0.00	0.00	88.00	100.00	99.00	0.40	20.00	288.00	0.00			
7	Asianet Satellite Communications Ltd.	All India	100.00	90.35	99.63	0.31	100.00	100.00	60.71	80.48	0.00	0.00	57.06	91.33	99.87	0.81	56.00	229.00	0.00			
8	Atria Convergence Technologies Ltd.	All India	100.00	96.04	99.60	0.90	100.00	100.00	65.51	69.10	0.00	0.00	37.74	93.47	99.95	0.00	21.00	228.00	0.00			
9	Bharat Sanchar Nigam Ltd.	All India	100.00	94.23	99.75	0.07	100.00	96.25	95.74	97.06	0.00	0.00	63.50	93.85	99.54	0.30	45.00	75.00	0.00			
		Andhra Pradesh	100.00	92.04	99.94	0.01	100.00	100.00	96.24	98.67	0.00	0.00	35.94	100.00	99.86	0.00	32.67	5.69	0.00			
		Assam	100.00	96.34	100.00	0.00	100.00	100.00	96.42	98.57	0.00	0.00	53.61	100.00	99.58	0.00	72.00	78.99	0.00			
		Bihar	100.00	91.23	99.52	0.02	100.00	100.00	95.32	98.24	0.00	0.00	28.80	100.00	99.59	0.00	64.00	69.62	0.00			
		Delhi	100.00	96.75	100.00	0.01	100.00	100.00	95.83	97.84	0.00	0.00	32.44	100.00	99.93	0.00	40.33	72.53	0.00			
		Gujarat	100.00	91.77	99.17	0.02	100.00	100.00	95.52	98.31	0.00	0.00	30.24	100.00	99.63	0.00	65.08	64.43	0.00			
		Haryana	100.00	93.65	99.18	0.02	100.00	100.00	95.90	98.46	0.00	0.00	0.00	100.00	99.68	0.00	68.00	0.00	0.00			
		Himachal Pradesh	100.00	93.07	99.48	0.01	100.00	100.00	97.24	99.03	0.00	0.00	0.00	100.00	99.52	0.00	26.00	0.00	0.00			
		Jammu & Kashmir	100.00	91.94	99.33	0.02	100.00	100.00	95.83	98.14	0.00	0.00	26.45	100.00	99.58	0.00	28.67	82.41	0.00			
		Karnataka	100.00	90.46	100.00	0.01	100.00	100.00	96.14	98.53	0.00	0.00	32.23	100.00	99.85	0.00	10.67	47.67	0.00			
		Kerala	100.00	91.14	99.76	0.01	100.00	100.00	94.61	98.19	0.00	0.00	23.84	100.00	99.85	0.00	32.67	36.00	0.00			
		Kolkata	100.00	92.90	100.00	0.01	100.00	100.00	94.48	98.45	0.00	0.00	27.05	100.00	99.89	0.00	54.67	67.44	0.00			
		Madhya Pradesh	100.00	90.03	99.03	0.01	100.00	100.00	94.64	98.50	0.00	0.00	37.78	100.00	99.78	0.00	66.67	62.76	0.00			
		Maharashtra	100.00	92.84	99.17	0.01	100.00	100.00	95.09	98.19	0.00	0.00	36.06	100.00	99.67	0.00	14.55	55.18	0.00			
		Mumbai	100.00	92.83	99.09	0.01	100.00	100.00	96.10	99.03	0.00	0.00	30.43	100.00	99.77	0.00	37.74	58.56	0.00			
		North East	100.00	95.92	100.00	0.00	100.00	100.00	98.25	99.24	0.00	0.00	0.00	100.00	99.48	0.00	108.33	0.00	0.00			
		Odisha	100.00	93.77	100.00	0.01	100.00	100.00	97.59	99.05	0.00	0.00	0.00	100.00	99.79	0.00	70.95	0.00	0.00			
		Punjab	100.00	92.86	99.12	0.01	100.00	100.00	95.81	98.54	0.00	0.00	23.28	100.00	99.88	0.00	71.00	78.37	0.00			
		Rajasthan	100.00	90.20	100.00	0.02	100.00	100.00	96.12	98.60	0.00	0.00	27.46	100.00	99.81	0.00	45.21	75.06	0.00			
		Tamilnadu	100.00	92.26	99.92	0.02	100.00	100.00	95.32	98.01	0.00	0.00	23.79	100.00	99.88	0.00	5.00	36.00	0.00			
		Uttar Pradesh (East)	100.00	92.62	99.13	0.02	100.00	100.00	94.92	97.57	0.00	0.00	28.76	100.00	99.68	0.00	19.17	72.46	0.00			
		Uttar Pradesh (West)	100.00	94.54	99.14	0.02	100.00	100.00	95.56	97.08	0.00	0.00	0.00	100.00	99.60	0.00	24.00	0.00	0.00			
		West Bengal	100.00	94.55	100.00	0.01	100.00	100.00	96.51	98.58	0.00	0.00	31.97	100.00	99.50	0.00	60.00	65.61	0.00			
11	Broadband Pacenet (I) Pvt. Ltd.	All India	100.00	92.50	99.50	0.00	100.00	100.00	92.00	90.00	0.00	0.00	75.00	85.00	100.00	0.45	10.00	250.00	0.00			
12	Candor Infosolution Pvt. Ltd.	Delhi	100.00	99.00	100.00	0.10	100.00	100.00	100.00	100.00	0.00	0.00	89.00	90.00	100.00	0.00	90.00	250.00	350.00			
		Andhra Pradesh	100.00	99.00	99.00	0.00	100.00	100.00	98.00	99.00	0.00	0.00	65.72	99.00	99.72	0.30	15.00	238.00	0.00			
13	City Online Services Ltd	Karnataka	100.00	98.00	99.00	0.00	100.00	100.00	95.50	98.00	0.00	0.00	77.50	97.87	99.72	0.57	18.00	280.00	0.00			
14	D-Vois Communication Private Limited	All India	100.00	92.33	99.14	0.00	100.00	100.00	80.17	87.83	0.00	0.00	0.00	90.00	99.47	0.10	24.00	0.00	0.00			

Annexure 4.3 (Contd.)

15	DDC BROADBAND PRIVATE LIMITED	Delhi	100.00	97.00	100.00	0.01	100.00	100.00	92.00	95.00	0.00	0.00	88.16	98.00	100.00	0.35	11.00	171.00	0.00
16	DEN Broadband Limited	All India	100.00	98.64	99.91	0.00	100.00	100.00	83.45	89.18	0.00	0.00	63.15	91.00	99.31	0.62	73.00	293.00	0.00
17	Digital Network Associates Pvt. Ltd.	Maharashtra	100.00	91.24	99.19	0.00	100.00	100.00	68.48	88.09	0.00	0.00	80.00	83.00	99.82	0.90	4.00	255.00	600.00
		Mumbai	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	80.00	86.00	99.95	0.20	4.00	255.00	600.00
18	DL GTPL Broadband Pvt. Ltd.	Gujarat	100.00	93.00	99.00	0.00	100.00	100.00	85.00	94.00	0.00	0.00	82.00	85.00	99.27	0.00	15.00	300.00	0.00
		Maharashtra	100.00	96.00	99.33	0.00	100.00	100.00	97.00	97.00	0.00	0.00	82.00	85.00	99.40	0.00	15.00	300.00	0.00
19	DNA Infotel Pvt Ltd	Maharashtra	100.00	91.10	99.25	0.00	100.00	100.00	69.22	90.72	0.00	0.00	80.00	83.00	99.82	0.90	4.00	255.00	600.00
20	Dwan Supports Pvt. Ltd.	All India	100.00	95.67	100.00	0.00	100.00	100.00	91.67	99.00	0.00	0.00	85.67	95.33	99.86	0.04	44.00	245.00	455.00
21	Ethernet Xpress(I) Pvt. Ltd.	Maharashtra	100.00	93.60	99.50	0.50	100.00	100.00	67.67	94.33	0.00	0.00	20.00	99.00	100.00	0.10	30.00	300.00	650.00
22	Excell Media Pvt. Ltd.	Andhra Pradesh	100.00	94.06	99.26	0.00	100.00	100.00	95.85	97.52	0.00	0.00	79.03	98.43	99.86	0.50	10.00	300.00	0.00
23	Excitel Broadband Private Limited	All India	100.00	91.06	99.60	0.00	100.00	100.00	75.00	82.00	0.00	0.00	78.00	100.00	99.73	0.00	4.00	199.00	0.00
24	Five Network Solution (India) Ltd.	All India	100.00	99.50	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	90.00	99.86	0.60	0.00	0.00	0.00
25	Fusionnet Web Services Pvt. Ltd.	All India	100.00	94.17	99.51	0.00	100.00	100.00	74.40	84.30	0.00	0.00	54.30	100.00	100.00	0.00	5.00	250.00	0.00
26	Genstar Network Solutions Pvt. Ltd.	Mumbai	100.00	98.00	100.00	0.00	100.00	100.00	83.00	87.00	0.00	0.00	83.00	99.00	98.94	0.00	1.00	47.00	80.00
27	GTPL Broadband Pvt. Ltd.	All India	100.00	95.00	99.02	0.00	100.00	100.00	91.70	96.30	0.00	0.00	53.64	94.00	99.25	0.00	11.00	300.00	0.00
28	GTPL KCBPL Broadband Private Limited	Kolkata	100.00	99.80	100.00	0.00	100.00	100.00	86.57	88.33	0.00	0.00	80.00	97.67	100.00	0.00	10.00	250.00	300.00
		West Bengal	100.00	99.69	100.00	0.00	100.00	100.00	85.31	88.66	0.00	0.00	80.00	98.04	100.00	0.00	10.00	250.00	300.00
29	Hathway Cable & Datacom Pvt. Ltd.	All India	100.00	91.69	99.44	1.19	100.00	100.00	89.66	91.77	0.00	0.00	78.36	90.00	99.77	0.26	76.00	262.00	0.00
30	Honesty Net Solutions (I) Pvt Ltd	Mumbai	100.00	93.33	100.00	0.00	100.00	100.00	68.00	100.00	0.00	0.00	0.00	95.00	99.80	0.02	0.00	66.00	0.00
31	Indinet Service Pvt. Ltd	All India	100.00	91.67	100.00	0.00	100.00	100.00	65.67	82.33	0.00	0.00	84.65	95.00	99.37	0.50	55.00	249.00	
32	Instanet Technologies Pvt. Ltd.	Maharashtra	100.00	98.07	100.00	0.15	100.00	100.00	66.05	82.13	0.00	0.00	63.00	90.00	100.00	0.00	4.00	255.00	0.00
33	Intech Online Pvt. Ltd.	Maharashtra	100.00	90.44	99.35	1.33	100.00	100.00	93.24	93.24	0.00	0.00	40.92	85.66	99.86	0.07	15.00	89.33	451.66
		Mumbai	100.00	90.97	99.28	1.07	100.00	100.00	91.88	91.88	0.00	0.00	35.02	85.66	99.86	0.04	1.00	76.00	453.00
34	Intermedia Cable Communication Pvt Ltd	Maharashtra	100.00	98.00	99.99	0.00	100.00	100.00	90.00	93.66	0.00	0.00	86.33	90.00	99.82	0.00	72.00	320.00	0.00
35	Ishan Netsol Pvt Ltd	Gujarat	100.00	91.42	100.00	0.00	100.00	100.00	66.80	83.74	0.00	0.00	65.18	91.00	98.70	0.00	100.00	225.00	0.00
36	Joister Infoserve Pvt. Ltd.	Maharashtra	100.00	93.00	100.00	0.00	100.00	100.00	83.00	90.00	0.00	0.00	88.00	99.00	100.00	0.98	1.00	225.00	265.00
		Mumbai	100.00	93.00	100.00	0.00	100.00	100.00	85.00	91.00	0.00	0.00	89.00	99.00	100.00	0.97	1.00	47.00	265.00
37	Juwariyah Networks Private Limited	Maharashtra	100.00	98.00	100.00	0.00	100.00	100.00	83.67	87.00	0.00	0.00	83.00	99.00	100.00	0.00	1.00	47.00	80.00
		Mumbai	100.00	98.00	100.00	0.00	100.00	100.00	83.67	87.00	0.00	0.00	78.00	99.00	100.00	0.00	1.00	47.00	80.00
38	K NET Solutions Private Limited	Tamilnadu	100.00	93.95	99.55	0.00	100.00	100.00	85.95	87.58	0.00	0.00	0.00	100.00	99.84	0.00	10.78	217.95	0.00
39	Kerala Vision Broadband Ltd.	Kerala	100.00	92.00	99.00	0.00	100.00	100.00	67.00	82.33	0.00	0.00	32.50	99.00	99.66	0.00	16.00	263.00	0.00
40	Kernel Fibernet Online Network Pvt Ltd	Kerala	100.00	99.00	99.00	0.00	100.00	100.00	90.00	90.00	0.00	0.00	80.00	94.00	99.72	0.00	4.00	0.00	0.00
41	Kings Broadband Pvt. Ltd	All India	100.00	98.00	100.00	0.00	100.00	100.00	88.30	95.66	0.00	0.00	80.00	95.60	99.82	0.10	30.00	310.00	650.00
42	Limras Eronet Broadband Service Pvt Ltd	All India	100.00	99.00	100.00	0.02	100.00	100.00	90.00	100.00	0.00	0.00	0.00	98.50	99.45	0.01	30.00	259.00	0.00
43	Mahanagar Telephone Nigam Ltd.	All India	96.85	71.93	79.85	0.00	100.00	66.53	95.96	98.15	0.00	0.00	44.17	89.70	99.10	0.50	35.32	294.90	0.00
44	Meghbela Cable & Broadband Services (P) Ltd	All India	100.00	95.00	100.00	1.49	100.00	100.00	95.00	100.00	0.00	0.00	74.00	95.00	100.00	0.00	60.00	150.00	0.00
45	Microscan Infocommtech Private Limited	Maharashtra	100.00	93.52	99.68	0.00	100.00	100.00	100.00	100.00	0.00	0.00	11.95	100.00	100.00	0.55	4.10	164.00	NA
		Mumbai	100.00	96.95	99.34	0.00	100.00	100.00	100.00	100.00	0.00	0.00	18.92	100.00	100.00	0.60	4.34	164.00	NA
46	Multicraft Digital Technologies Private Limited	All India	100.00	97.17	100.00	0.00	100.00	100.00	99.00	99.00	0.00	0.00	88.60	91.67	100.00	0.00	119.00	0.00	0.00
47	Netplus Broadband Services Pvt. Ltd	All India	100.00	100.00	100.00	1.17	100.00	100.00	93.62	98.23	0.00	0.00	74.21	96.03	100.00	0.10	44.00	197.33	0.00
48	Nuron Networks Private Limited	Karnataka	100.00	91.00	99.00	0.00	100.00	100.00	72.00	93.00	0.00	0.00	0.00	90.00	100.00	0.10	27.00	30.00	59.00
49	ONEOTT ENTERTAINMENT LTD	All India	100.00	97.00	99.00	1.71	100.00	100.00	95.00	95.00	0.00	0.00	85.56	100.00	99.91	0.50	1.03	63.00	0.00
50	Pacenet Meghbela Broadband Pvt. Ltd.	Kolkata	100.00	95.00	100.00	1.73	100.00	100.00	95.00	100.00	0.00	0.00	74.00	95.00	100.00	0.00	60.00	150.00	0.00

Annexure 4.3 (Contd.)

51	Quadrant Televentures Ltd.	Punjab	100.00	92.48	99.16	0.35	100.00	100.00	89.97	92.77	0.00	0.00	69.43	100.00	100.00	0.00	16.67	255.33	0.00
52	Quest Consultancy Pvt. Ltd.	Gujarat	100.00	95.00	100.00	0.07	100.00	100.00	89.00	99.00	0.00	0.00	82.40	99.00	98.66	0.30	11.00	255.00	630.00
53	Radinet Info Solutions Pvt Ltd	Rajasthan	100.00	95.13	99.83	0.00	100.00	100.00	93.50	98.47	0.00	0.00	74.24	90.00	99.45	0.00	23.33	300.00	0.00
54	RailTel Corporation of India Ltd.	All India	100.00	98.00	100.00	0.00	100.00	100.00	87.00	100.00	0.00	0.00	54.21	100.00	99.86	0.87	90.00	326.00	0.00
55	Rajesh Digital & Datacom Pvt. Ltd.	Mumbai	100.00	98.00	100.00	0.00	100.00	100.00	97.00	97.00	0.00	0.00	87.00	83.00	99.86	0.00	46.00	250.00	500.00
56	Readylink Internet Services Limited	Tamilnadu	100.00	99.00	100.00	0.06	100.00	100.00	83.00	90.00	0.00	0.00	73.00	83.00	100.00	0.00	23.00	85.00	0.00
57	Reliance Jio Infocomm Ltd	All India	100.00	95.53	99.50	0.00	100.00	100.00	83.40	88.95	0.00	0.00	52.68	100.00	99.99	0.01	18.80	69.46	NA
58	RI Networks Pvt Ltd	All India	100.00	91.70	99.15	0.00	100.00	100.00	83.71	89.53	0.00	0.00	75.04	100.00	100.00	0.50	50.00	300.00	300.00
59	Shree Omkar Infocom Pvt. Ltd.	Maharashtra	100.00	98.00	100.00	0.00	100.00	100.00	90.00	95.00	0.00	0.00	63.00	98.00	100.00	0.50	2.00	126.00	600.00
60	Shyam Spectra Private Limited	All India	100.00	96.60	99.24	0.46	100.00	100.00	73.08	76.45	0.00	0.00	21.12	97.33	99.12	0.00	5.50	158.50	0.00
61	Sikka Broadband(P) Ltd.	Uttar Pradesh (East)	100.00	91.00	99.26	0.00	100.00	100.00	88.00	98.70	0.00	0.00	80.00	86.60	100.00	0.10	10.00	290.00	400.00
62	SITI Broadband Services Pvt. Ltd.	All India	100.00	92.77	99.68	0.00	100.00	100.00	91.00	96.00	0.00	0.00	65.11	95.00	98.42	0.00	3.00	131.00	299.00
63	Spiderlink Networks Pvt. Ltd.	Rajasthan	100.00	91.40	99.40	0.00	100.00	100.00	65.57	84.00	0.00	0.00	78.00	98.00	99.95	0.00	30.00	225.00	0.00
64	Sristi Sanchar Webnet Limited	Kolkata	100.00	93.10	100.00	0.00	100.00	100.00	83.13	100.00	0.00	0.00	75.82	93.47	99.73	0.00	50.00	208.00	200.00
65	Stampede Communications Pvt. Ltd.	Kerala	100.00	95.00	100.00	0.00	100.00	100.00	80.00	100.00	0.00	0.00	87.50	90.00	99.91	0.00	25.00	250.00	0.00
66	Tachyon Communications Private Limited	Uttar Pradesh (East)	100.00	98.00	100.00	1.83	100.00	100.00	88.00	94.00	0.00	0.00	58.12	99.00	100.00	0.00	35.00	70.00	NA
67	Tata Play Broadband Private Limited (formerly Tata Sky Broadband Pvt.Ltd.)	All India	100.00	94.35	99.36	0.00	100.00	100.00	84.25	88.02	0.00	0.00	40.46	100.00	99.96	0.00	1.00	0.00	0.00
68	Tata Teleservices Limited	Andhra Pradesh	100.00	94.75	99.33	0.00	100.00	100.00	99.67	100.00	0.00	0.00	50.24	93.23	99.92	0.00	49.88	58.33	0.00
		Bihar	100.00	98.51	100.00	0.00	100.00	100.00	98.85	100.00	0.00	0.00	50.24	92.60	99.87	0.00	62.59	58.33	0.00
		Delhi	100.00	93.83	99.56	0.06	100.00	100.00	100.00	100.00	0.00	0.00	50.24	89.10	99.57	0.00	57.73	60.00	0.00
		Gujarat	100.00	96.80	100.00	0.00	100.00	100.00	99.00	100.00	0.00	0.00	50.24	98.65	99.89	0.33	41.10	57.00	0.00
		Karnataka	100.00	94.84	99.00	0.29	100.00	100.00	99.67	99.67	0.00	0.00	50.24	95.33	99.25	0.00	94.43	58.67	0.00
		Kerala	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	50.24	98.57	98.99	0.00	61.33	60.67	0.00
		Kolkata	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	50.24	84.72	99.87	0.00	38.50	45.67	0.00
		Madhya Pradesh	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	50.24	100.00	100.00	0.00	0.00	0.00	0.00
		Punjab	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	50.24	95.87	100.00	0.00	49.20	54.33	0.00
69	Tata Teleservices(Maharashtra) Ltd.	Maharashtra	100.00	94.60	99.00	0.14	100.00	100.00	100.00	100.00	0.00	0.00	68.00	100.00	99.76	0.00	4.00	24.00	0.00
		Mumbai	100.00	94.37	99.25	0.01	100.00	100.00	99.33	100.00	0.00	0.00	68.00	100.00	99.77	0.00	10.00	28.00	0.00
70	Tikona Infinet Pvt Ltd	All India	100.00	94.16	99.49	0.78	100.00	100.00	63.50	81.50	0.00	0.00	82.73	94.83	99.95	0.00	3.33	0.00	0.00
71	United Telecoms Ltd.	Maharashtra	100.00	91.00	99.00	0.00	100.00	100.00	88.00	94.00	0.00	0.00	76.02	100.00	100.00	0.00	20.00	126.00	0.00
72	Wan and Lan Internet Pvt. Ltd.	Mumbai	100.00	100.00	100.00	0.00	100.00	100.00	90.00	90.00	0.00	0.00	88.00	90.00	100.00	0.00	20.00	40.00	80.00
73	Weebo Networks Pvt Ltd.	All India	100.00	98.00	99.00	0.00	100.00	100.00	88.66	95.00	0.00	0.00	80.00	85.00	98.86	0.43	100.00	300.00	600.00
74	Wish Net Pvt. Ltd.	Kolkata	100.00	98.16	100.00	0.00	100.00	100.00	95.75	98.83	0.00	0.00	34.71	100.00	100.00	0.30	12.00	0.00	0.00
		West Bengal	100.00	98.53	100.00	0.00	100.00	100.00	97.76	97.53	0.00	0.00	34.71	100.00	100.00	0.30	19.00	0.00	0.00
75	Yashash Cable Network Pvt Ltd	Karnataka	100.00	91.76	99.30	0.00	100.00	100.00	85.55	93.11	0.00	0.00	62.46	84.00	99.77	0.01	41.00	293.00	0.00
76	You Broadband India Ltd.	All India	100.00	95.93	99.80	0.00	100.00	100.00	98.51	99.38	0.00	0.00	76.43	87.12	99.04	0.00	9.00	271.00	0.00

Annexure 5.1: List of pay channels, offered by broadcasters to subscribers as reported to TRAI (New Regulatory Framework) - as on 30th June, 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	Histry TV 18 HD	HD
2	Asianet Star Communications Private Limited	3	Vijay TV	SD
		4	Vijay Super	SD
		5	Vijay HD	HD
		6	Vijay Music	SD
		7	Asianet	SD
		8	Asianet Plus	SD
		9	Asianet Movies	SD
		10	Suvarna Plus	SD
		11	Star Suvarna HD	HD
		12	Asianet HD	HD
		13	Star Suvarna	SD
3	Bangla Entertainment Private Limited	14	AATH	SD
		15	SONY Marathi	SD
4	BBC Global News India Private Limited	16	BBC World News	SD
		17	Cbeebies	SD
5	Bennett, Coleman & Company Limited	18	Zoom	SD
		19	Romedy Now	SD
		20	MN +	HD
		21	Mirror Now	SD
		22	ET NOW	SD
		23	Times Now	SD
		24	Times Now Navbharat HD	HD
		25	Movies Now HD	HD
		26	MNX HD	HD
		27	ET Now Swedesh	SD
		28	MNX	SD
29	Times Now World	HD		

S.No	Name of the broadcaster	Sl. No	Name of the channel	Declared as SD or HD
6	Celebrities Management Pvt Limited	30	Travel XP HD	HD
		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

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

S.No	Name of the broadcaster	Sl. No	Name of the channel	Declared as SD or HD
		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
		155	Jalsha Movies	SD

S.No	Name of the broadcaster	Sl. No	Name of the channel	Declared as SD or HD
		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
31	SUN TV Network Limited	186	Adithya TV	SD

S.No	Name of the broadcaster	Sl. No	Name of the channel	Declared as SD or HD
		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
32	Suryansh Broadcasting Private Limited	217	Flowers	SD

S.No	Name of the broadcaster	Sl. No	Name of the channel	Declared as SD or HD
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
36	Viacom 18 Media Private Limited	245	Colors	SD
		246	Comedy Central (HD)	HD
		247	MTV	SD
		248	NICK	SD

S.No	Name of the broadcaster	Sl. No	Name of the channel	Declared as SD or HD
		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 Cineplex Bollywood	SD
		263	Sports 18	SD
		264	Sports 18 HD	HD
		265	Colors Bangla	SD
		266	Colors Gujarati	SD
		267	Colors Kannada	SD
		268	Colors Marathi	SD
		269	Colors Oriya	SD
		270	MTV Beats HD	HD
		271	Colors Tamil	SD
		272	Colors Cineplex HD	HD
		273	VH 1	SD
		274	Colors Tamil HD	HD
		275	MTV HD+	HD
		276	Colors Rishtey	SD
		277	Colors Kannada Cinema	SD
		278	Colors Gujarati Cinema	SD
		279	Comedy Central	SD
		280	Rishtey Cineplex	SD

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

S.No	Name of the broadcaster	Sl. No	Name of the channel	Declared as SD or HD
		313	Zee Anmol Cinema	SD
		314	& Flix HD	HD
		315	& Flix	SD
		316	Zee Keralam HD	HD
		317	Zee Keralam	SD
		318	Zee Anmol	SD
		319	Big Magic	SD
		320	Zee Ganga	SD
		321	Zee Classic	SD
		322	&Xplore HD	HD
		323	ZEE Sarthak	SD
		324	Zee Talkies HD	HD
		325	Zee Punjabi	SD
		326	Zee Thirai	SD
		327	Zee Picchar	SD
		328	Zee Thirai HD	HD
		329	Zee Picchar HD	HD
		330	Zee Biskope	SD
39	Zee Media Corporation Limited	331	Zee 24 Taas	SD
		332	Zee Odisha	SD
		333	Zee Business	SD
		334	Zee Punjab Haryana Himachal	SD
		335	Zee Madhya Pradesh Chattisgarh	SD
		336	Zee Salaam	SD
		337	Zee 24 Kalak	SD
		338	WION	SD
		339	Zee Uttar Pradesh Uttarakhand	SD
		340	Zee Hindustan	SD
		341	Zee Bihar Jharkhand	SD
		342	Zee News	SD
		343	Zee Rajasthan News	SD

S.No	Name of the broadcaster	Sl. No	Name of the channel	Declared as SD or HD
40	Zoom Entertainment Network Limited	344	Movies Now	SD
41	Sidharth Broadcasting Private Limited	345	Sidharth TV	SD
42	Sarthak Music Private Limited	346	Sidharth Bhakti	SD
		347	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.sitinetworkslimited
Toll Free No. 1800 1234 001

- 2. M/s Den Networks Limited.**
236, Ground Floor, Okhla Industrial Estate,
Phase-III, New Delhi-110020
Website: www.den networks.com
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.
21	Bangalore Broadband Network (P) Ltd

Annexure 5.5: List of 113 existing cities with operational FM Radio Channels in India, as on 30th June, 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	Bareilly	C	4
16	Bengaluru	A	8
17	Bhadarwah	Others	1
18	Bharuch	D	2
19	Bhavangar	C	2
20	Bhopal	B	4
21	Bhubaneshwar	C	4
22	Bikaner	C	4
23	Bilaspur	C	3
24	Chandigarh	C	4
25	Chennai	A+	7
26	Coimbatore	B	4
27	Dehradun	C	1
28	Delhi	A+	9
29	Dhule	C	3
30	Dhubri	Others	1
31	Durg-Bhillaina	D	1

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

S.No.	City	Category	Channels
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		388

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