



Telecom Regulatory Authority of India

The Indian Telecom Services Performance Indicators

July–September, 2023

New Delhi, India

9th February, 2024

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Snapshot

(Data as on Q.E. 30th September, 2023)

Telecom Subscribers (Wireless+Wireline)	
Total Subscribers	1,181.13 Million
% change over the previous quarter	0.62%
Urban Subscribers	658.46 Million
Rural Subscribers	522.66 Million
Market share of Private Operators	91.13%
Market share of PSU Operators	8.87%
Tele-density	84.76%
Urban Tele-density	133.54%
Rural Tele-density	58.05%
Wireless Subscribers	
Total Wireless Subscribers	1,150.15 Million
% change over the previous quarter	0.57%
Urban Subscribers	630.17 Million
Rural Subscribers	519.99 Million
Market share of Private Operators	91.69%
Market share of PSU Operators	8.31%
Tele-density	82.54%
Urban Tele-density	127.81%
Rural Tele-density	57.75%
Total Wireless Data Usage during the quarter	47,629 PB
Number of Public Mobile Radio Trunk Services (PMRTS)	65,811
Number of Very Small Aperture Terminals (VSAT)	2,53,445
Wireline Subscribers	
Total Wireline Subscribers	30.98 Million
% change over the previous quarter	2.19%
Urban Subscribers	28.30 Million
Rural Subscribers	2.68 Million
Market share of PSU Operators	29.52%
Market share of Private Operators	70.48%
Tele-density	2.22%
Rural Tele-density	0.30%
Urban Tele-density	5.74%
No. of Village Public Telephones (VPT)	68,606
No. of Public Call Office (PCO)	30,643

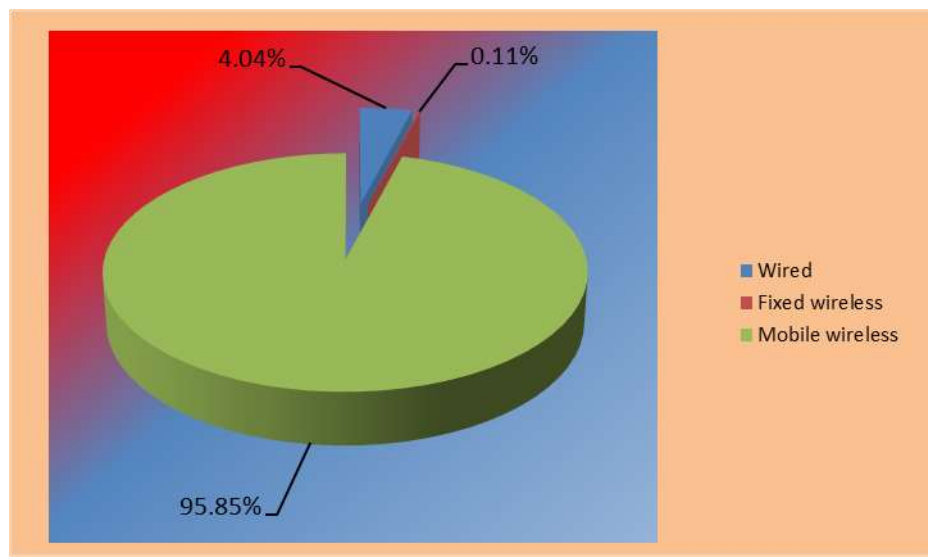
Telecom Financial Data	
Gross Revenue (GR) during the quarter	Rs. 82,741 Crore
% change in GR over the previous quarter	2.28%
Applicable Gross Revenue (ApGR) during quarter	Rs. 79,747 Crore
% change in ApGR over the previous quarter	1.78%
Adjusted Gross Revenue (AGR) during the quarter	Rs. 66,583 Crore
% change in AGR over the previous quarter	1.46%
Share of Public sector undertakings in Access AGR	3.93%
Internet/Broadband Subscribers	
Total Internet Subscribers	918.19 Million
% change over previous quarter	2.50%
Narrowband subscribers	33.19 Million
Broadband subscribers	885 Million
Wired Internet Subscribers	37.11 Million
Wireless Internet Subscribers	881.08 Million
Urban Internet Subscribers	542.53 Million
Rural Internet Subscribers	375.66 Million
Total Internet Subscribers per 100 population	65.89
Urban Internet Subscribers per 100 population	110.03
Rural Internet Subscribers per 100 population	41.72
No. of Public Wi-Fi Hotspots	1,65,533
Aggregate Data Consumed (GB)	73,23,038
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	915
Number of Pay TV Channels as reported by broadcasters	361
Number of private FM Radio Stations (excluding All India Radio)	388
Number of total active subscribers with pay DTH operators	64.18 Million
Number of Operational Community Radio Stations	465
Number of pay DTH Operators	4
Revenue & Usage Parameters	
Monthly ARPU of Wireless Service	Rs.149.66
Minutes of Usage (MOU) per subscriber per month - Wireless Service	948 Minutes
Total Outgoing Minutes of Usage for Internet Telephony	74.14 Million
Wireless Data Usage	
Average Wireless Data Usage per wireless data subscriber per month	19.08 GB
Average revenue realization per GB for wireless data usage during the quarter	Rs.9.22

* For ARPU explanation please refer to footnote on Page 52

Executive Summary

1. Total number of Internet¹ subscribers increased from 895.83 million at the end of Jun-23 to 918.19 million at the end of Sep-23, registering a quarterly rate of growth of 2.50%. Out of 918.19 million internet subscribers, number of Wired Internet subscribers are 37.11 million and number of Wireless Internet subscribers are 881.08 million.

Composition of internet subscription



2. The Internet subscriber base is comprised of Broadband² Internet subscriber base of 885 million and Narrowband³ Internet subscriber base of 33.19 million.
3. The broadband Internet subscriber base increased by 2.73% from 861.47 million at the end of Jun-23 to 885 million at the end of Sep-23. The narrowband Internet subscriber base decreased from 34.36 million at the end of Jun-23 to 33.19 million at the end of Sep-23.

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

² Broadband: Internet access with a minimum capacity of greater or equal 2Mbps in one or both directions.

³ Narrowband: Internet access with a capacity of less than 2Mbps in one or both directions.

4. Wireline subscribers increased from 30.31 million at the end of June-23 to 30.98 million at the end of Sep-23 with a quarterly rate of growth of 2.19% and, on Y-O-Y basis, wireline subscriptions also increased by 17.03% at the end of QE Sep-23.
5. Wireline Tele-density increased from 2.18% at the end of Jun-23 to 2.22% at the end of Sep-23 with quarterly rate of growth of 1.96%.
6. Monthly Average Revenue per User (ARPU)⁴ for wireless service increased by 2.76%, from Rs.145.64 in QE Jun-23 to Rs.149.66 in QE Sep-23. On Y-O-Y basis, monthly ARPU for wireless service increased by 8.99% in this quarter.
7. Prepaid ARPU per month increased from Rs.143.81 in QE Jun-23 to Rs.148 in QE Sep-23 and Postpaid ARPU per month also increased from Rs.166.22 in QE Jun-23 to Rs.167.93 in QE Sep-23.
8. On an all-India average, the overall MOU per subscriber per month decreased by 1.21% from 960 in Q.E. Jun-2023 to 948 in Q.E. Sep-2023.
9. Prepaid MOU per subscriber per month decreased from 1000 in QE Jun-23 to 989 in QE Sep-23. Postpaid MOU per subscriber per month also decreased from 509 in QE Jun-23 to 495 in QE Sep-23.

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

10. Gross Revenue⁵ (GR), Applicable Gross Revenue (ApGR) and Adjusted Gross Revenue⁶ (AGR) of Telecom Service Sector for the Q.E. Sep-23 has been Rs.82,741 Crore, Rs.79,747 crore and Rs.66,583 Crore respectively. GR increased by 2.28%, ApGR increased by 1.78% and AGR increased by 1.46% in Q.E. Sep-23, as compared to previous quarter.
11. The Y-O-Y rate of growth in GR, ApGR and AGR in Q.E. Sep-23 over the same quarter in last year has been -1.22%, 6.74% and 7.43% respectively.
12. Pass-through charges increased from Rs.13,220 Crore in QE Jun-23 to Rs.13,425 Crore in QE Sep-23 with quarterly rate of growth by 1.55%. The Y-O-Y rate of decline of 0.15% has been recorded in pass-through charges for QE Sep-23.
13. The License Fee⁷ increased from Rs.5,246 Crore for the QE Jun-23 to Rs.5,326 Crore for the QE Sep-23. The quarterly and the Y-O-Y rates of growth in license fees are 1.53% and 8.23% respectively in this quarter.

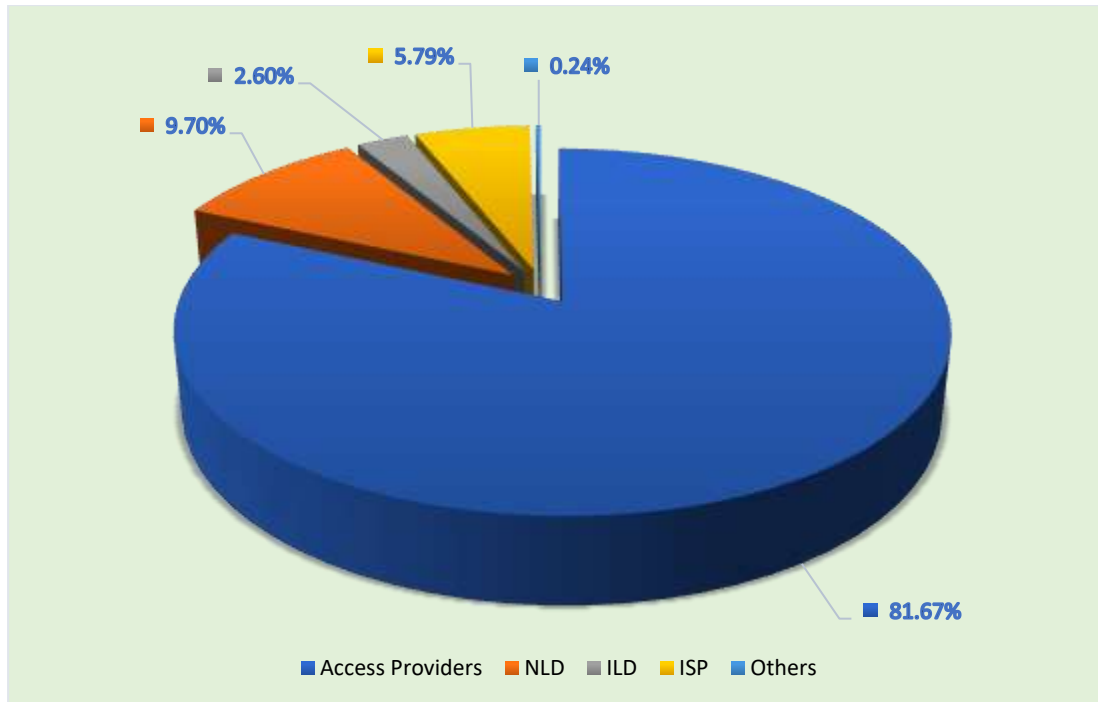
⁵ Gross Revenue is inclusive of installation charges, late fees, sale proceeds of handsets (or any other terminal equipment etc.), revenue on account of interest, dividend, value added services, supplementary services, access or interconnection charges, roaming charges, revenue from permissible sharing 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

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

Service-wise composition of Adjusted Gross Revenue



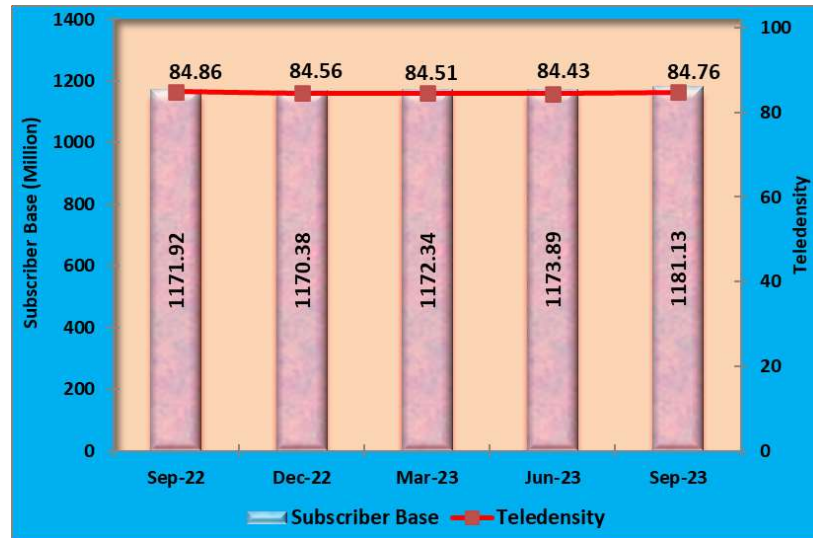
14. Access services contributed 81.67% of the total Adjusted Gross Revenue of telecom services. In Access services, Gross Revenue (GR), Applicable Gross Revenue (ApGR), Adjusted Gross Revenue (AGR), License Fee, Spectrum Usage Charges (SUC)⁸ and Pass Through Charges increased by 3.68%, 2.52%, 2.91%, 3.06%, 2.20% and 0.66% respectively in QE Sep-23.

15. The number of telephone subscribers in India increased from 1,173.89 million at the end of Jun-23 to 1,181.13 million at the end of Sep-23, registering a rate of growth of 0.62% over the previous quarter. This reflects Year-On-Year (Y-O-Y) rate of growth of 0.79% over the same quarter of the last year. The overall Tele-density in India increased from 84.43% as in QE Jun-23 to 84.76% as in QE Sep-23.

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

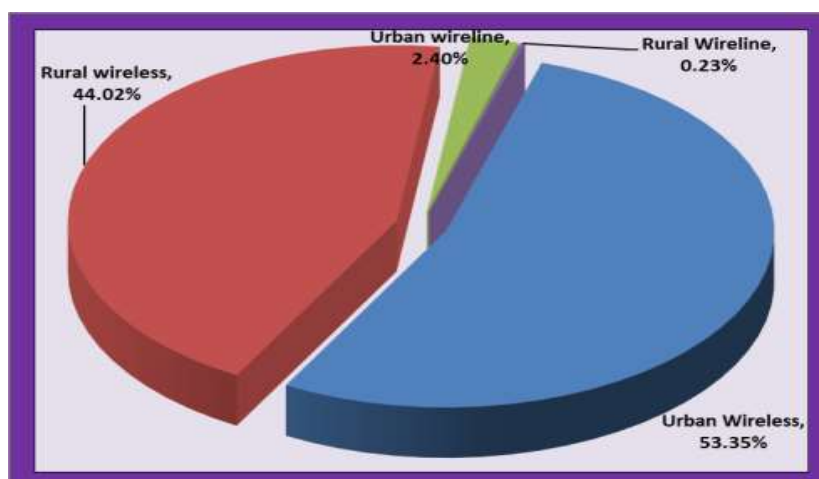
(Source – DoT License Agreement)

Trends in Telephone subscribers and Tele-density in India



16. Telephone subscribers in Urban areas increased from 653.70 million at the end of Jun-23 to 658.46 million at the end of Sep-23 and Urban Tele-density also increased from 133.19% to 133.54% during the same period.
17. Rural telephone subscribers increased from 520.19 million at the end of Jun-23 to 522.66 million at the end of Sep-23 and Rural Tele-density also increased from 57.83% to 58.05% during the same period.
18. Out of the total subscription, the share of Rural subscription decreased from 44.31% at the end of Jun-23 to 44.25% at the end of Sep-23.

Composition of Telephone Subscribers



19. With a net increase of 6.57 million subscribers during the quarter, the total wireless subscriber base increased from 1,143.58 million at the end of Jun-23 to 1,150.15 million at the end of Sep-23, registering a rate of growth of 0.57% over the previous quarter. On Y-O-Y basis, wireless subscriptions increased at the rate of 0.41% during the year.
20. Wireless Tele-density increased from 82.25% at the end of Jun-23 to 82.54% at the end of Sep-23 with quarterly rate of growth of 0.35%.
21. During this quarter, the following parameters in terms of QoS benchmarks have been fully complied by wireline service providers: -
 - i. Fault incidences No. of faults per 100 subs/month ≤ 7
 - ii. Point of Interconnection'(POI) Congestion (No. of PoIs not meeting benchmark) $\leq 0.5\%$
 - iii. Metering and billing credibility- post-paid $\leq 0.1\%$
 - iv. Metering and billing credibility- pre-paid $\leq 0.1\%$
 - v. Resolution of billing/charging/Credit & validity complaints 98% within 4 weeks
 - vi. Resolution of billing/charging Credit & validity complaints 100% within 6 weeks
 - vii. Period of applying credit/waiver/adjustment to customer's 100% within 1 week of resolution of complaint
22. The following parameters have shown improvement, as compared to the previous quarter, in QoS by wireline service providers: -
 - i. Accessibility of call centre/ customer care $\geq 95\%$
 - ii. % age of calls answered by the operators (voice to voice) within ninety seconds $\geq 95\%$
 - iii. Time taken for refund of deposits after closures 100% within 60 days

23. The following parameters have shown deterioration as compared to the previous quarter, in QoS by wireline service providers: -
- i. % Fault repaired by next working day (for urban areas) \geq 85%
24. During this quarter, list of Parameters which are fully complied, as compared to the previous quarter, by all the Cellular Mobile service providers: -
- i. BS Accumulated down-time (not available for service) (%age) \leq 2%
 - ii. Worst affected BS due to down-time(%age) \leq 2%
 - iii. Call Set-up Success Rate and Session Establishment Success Rate for Circuit Switched Voice or VoLTE as applicable (within licensee's own network) \geq 95%
 - iv. SDCCH/ Paging Channel Congestion/ RRC Congestion (% age) \leq 1%
 - v. TCH, RAB and E-RAB congestion (%age) \leq 2%
 - vi. Network QoS DCR Spatial Distribution Measure [Network_QSD (90,90)] \leq 2%
 - vii. Network QoS DCR Temporal Distribution Measure [Network_QTD (97,90)] \leq 3%
 - viii. Connections with good voice quality, Circuit Switched Voice Quality and VoLTE quality \geq 95%
 - ix. Down Link (DL) Packet Drop Rate or DL-PDR \leq 2%
 - x. Up Link (UL) Packet Drop Rate or UL-PDR \leq 2%
 - xi. Point of Interconnection (POI) Congestion (No. of POIs not meeting the benchmark) \leq 0.5%
 - xii. Metering and billing credibility - postpaid \leq 0.1%
 - xiii. Metering and billing credibility – prepaid \leq 0.1%
 - xiv. Resolution of billing/charging/validity complaints - 98% within 4 weeks
 - xv. Resolution of billing/charging/validity complaints - 100% within 6 weeks

- xvi. Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution - within 1 week of resolution of complaint
 - xvii. Accessibility of call centre/ customer care > 95%
 - xviii. Termination / Closure of service < 7 days
 - xix. Time taken for refund of deposits after closures (100% within 60 days)
25. The following parameters have shown improvement, as compared to the previous quarter, in QoS by Cellular Mobile service providers: -
- i. Worst affected BSs due to down-time (%age) < 2%
 - ii. Accessibility of call centre/ customer care \geq 95%
 - iii. Percentage of calls answered by the operators (voice to voice) within ninety seconds \geq 95%
26. A total of approximately 915 private satellite TV channels have been permitted by the Ministry of Information and Broadcasting (MIB) for uplinking only/downlinking only/both uplinking & downlinking.
27. As per the reporting done by broadcasters in pursuance of the Tariff Order dated 3rd March 2017, as amended, out of 904 permitted satellite TV channels which are available for downlinking in India, there are 361 satellite pay TV channels as on 30th September, 2023. Out of 361 pay channels, 257 are SD satellite pay TV channels and 104 are HD satellite pay TV channels.
28. 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 September 2023, there were 4 pay DTH service providers in the country.

29. Pay DTH has attained total active subscriber base of around 64.18 million. This is in addition to the subscribers of the DD Free Dish (free DTH services of Doordarshan). The total active subscriber base has decreased from 65.50 million in QE June 2023 to 64.18 million in QE September 2023.
30. 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 September 2023, there are 388 operational private FM Radio channels in 113 cities operated by 36 private FM Radio operators. As compared to the previous quarter, there is no change in the number of operational private FM Radio channels, cities and FM Radio operators.
31. The advertisement revenue reported by FM Radio operators during the quarter ending 30th September 2023 in respect of 388 private FM Radio channels is Rs.408.37 crore as against Rs.389.97 crore in respect of 388 private FM Radio channels for the previous quarter.
32. As on 30th September, 2023, 465 Community Radio stations are operational.

Trends at a Glance

A. Access Service (Wireline + Wireless)									
	QE Sep 2022	QE Dec 2022	QE Mar 2023	QE Jun 2023	QE Sep 2023	%age change over Sep-2022	%age change over Dec-2022	%age change over Mar-2023	%age change over Jun-2023
						(12 months)	(9 months)	(6 months)	(3 months)
1) Subscriber Base (in million)									
Wireline	26.47	27.45	28.41	30.31	30.98	17.03%	12.83%	9.04%	2.19%
Wireless	1145.45	1142.93	1143.93	1143.58	1150.15	0.41%	0.63%	0.54%	0.57%
Total	1171.92	1170.38	1172.34	1173.89	1181.13	0.79%	0.92%	0.75%	0.62%
Rural	520.30	517.99	518.63	520.19	522.66	0.45%	0.90%	0.78%	0.48%
Urban	651.61	652.39	653.71	653.70	658.46	1.05%	0.93%	0.73%	0.73%
2) Tele-density									
Wireline	1.92	1.98	2.05	2.18	2.22	15.99%	12.08%	8.56%	1.96%
Wireless	82.94	82.57	82.46	82.25	82.54	-0.48%	-0.04%	0.10%	0.35%
Total	84.86	84.56	84.51	84.43	84.76	-0.11%	0.24%	0.30%	0.39%
Rural	58.01	57.69	57.71	57.83	58.05	0.07%	0.62%	0.59%	0.38%
Urban	134.62	134.16	133.81	133.19	133.54	-0.80%	-0.46%	-0.20%	0.27%
3) Service Provider wise Subscribers Base (in Million) (wireless+wireline)									
Reliance Jio	427.62	432.92	439.35	448.53	459.67	7.49%	6.18%	4.63%	2.48%
Bharti Airtel	370.62	374.39	378.06	381.24	385.71	4.07%	3.02%	2.02%	1.17%
Vodafone Idea	249.82	242.04	237.45	230.34	228.19	-8.66%	-5.72%	-3.90%	-0.93%
BSNL	116.45	113.82	110.79	106.10	99.92	-14.20%	-12.21%	-9.81%	-5.82%
MTNL	5.35	5.17	4.66	4.27	4.20	-21.64%	-18.79%	-10.00%	-1.70%
Tata Tele.	1.58	1.57	1.54	2.25	2.27	43.48%	44.27%	47.01%	0.74%
Reliance Com.	0.16	0.15	0.15	0.14	0.14	-14.10%	-8.65%	-6.84%	-3.44%
Quadrant	0.30	0.32	0.34	0.36	0.37	24.32%	17.77%	10.95%	4.74%
VMIPL	0.00	0.00	0.00	0.01	0.02	-	-	-	32.96%
APFSPL	0.00	0.00	0.00	0.66	0.65	-	-	-	-0.93%
Total	1171.92	1170.38	1172.34	1173.89	1181.13	0.79%	0.92%	0.75%	0.62%

B. Internet Services									
	QE Sep 2022	QE Dec 2022	QE Mar 2023	QE Jun 2023	QE Sep 2023	%age change over Sep-2022	%age change over Dec-2022	%age change over Mar-2023	%age change over Jun-2023
						(12 months)	(9 months)	(6 months)	(3 months)
1) Subscriber's Base (in million)									
A. Wired Internet Subscribers	30.82	32.41	33.94	35.54	37.11	20.41%	14.50%	9.33%	4.40%
B. Wireless Internet Subscribers	820.13	833.49	847.31	860.29	881.08	7.43%	5.71%	3.99%	2.42%
i. Mobile Wireless (Mobile & Dongle)	818.98	832.35	846.21	859.33	880.11	7.46%	5.74%	4.01%	2.42%
ii. Fixed Wireless (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	1.16	1.13	1.10	0.96	0.97	-16.09%	-14.51%	-11.91%	1.10%
Total Internet Subscribers	850.95	865.90	881.25	895.83	918.19	7.90%	6.04%	4.19%	2.50%
2) No. of Internet Subs per 100 Population	61.62	62.56	63.53	64.43	65.89	6.94%	5.33%	3.73%	2.27%
C. Usage and Revenue for Wireless Services									
Traffic (MOU) (minutes of uses/subscriber/month)	894	919	946	960	948	6.06%	3.22%	0.24%	-1.20%
ARPU (Rs./sub/month)	137.31	141.14	142.32	145.64	149.66	8.99%	6.03%	5.16%	2.76%
D. Telecom Financial Data									
	QE Sep 2022	QE Dec 2022	QE Mar 2023	QE Jun 2023	QE Sep 2023	%age change over Sep-2022	%age change over Dec-2022	%age change over Mar-2023	%age change over Jun-2023
						(12 months)	(9 months)	(6 months)	(3 months)
1. Telecom Sector									
i) Gross Revenue (Rs.in Crores)	83767	88166	85356	80899	82741	-1.22%	-6.15%	-3.06%	2.28%
ii) Adjusted Gross Revenue (Rs. in Crores)	61981	62904	64494	65624	66583	7.43%	5.85%	3.24%	1.46%
2. Access Services									
Adjusted Gross Revenue (Rs. in Crores)	50327	51023	51631	52838	54376	8.05%	6.57%	5.32%	2.91%

Introduction

This Report presents the Key Parameters and growth trends for the Telecom Services in India for the quarter ending 30th September, 2023. 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%20011-2036%20-%20upload_compressed_0.pdf

Section A : Access Service - An Overview

1.1 The number of telephone subscribers in India increased from 1,173.89 million at the end of Jun-23 to 1,181.13 million at the end of Sep-23, registering a rate of growth of 0.62% over the previous quarter. This reflects year-on-year (Y-O-Y) rate of growth of 0.79% over the same quarter of last year. The overall Tele-density in India increased from 84.43% as on 30th June, 2023 to 84.76% as on 30th September, 2023 with quarterly rate of growth of 0.39%.

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

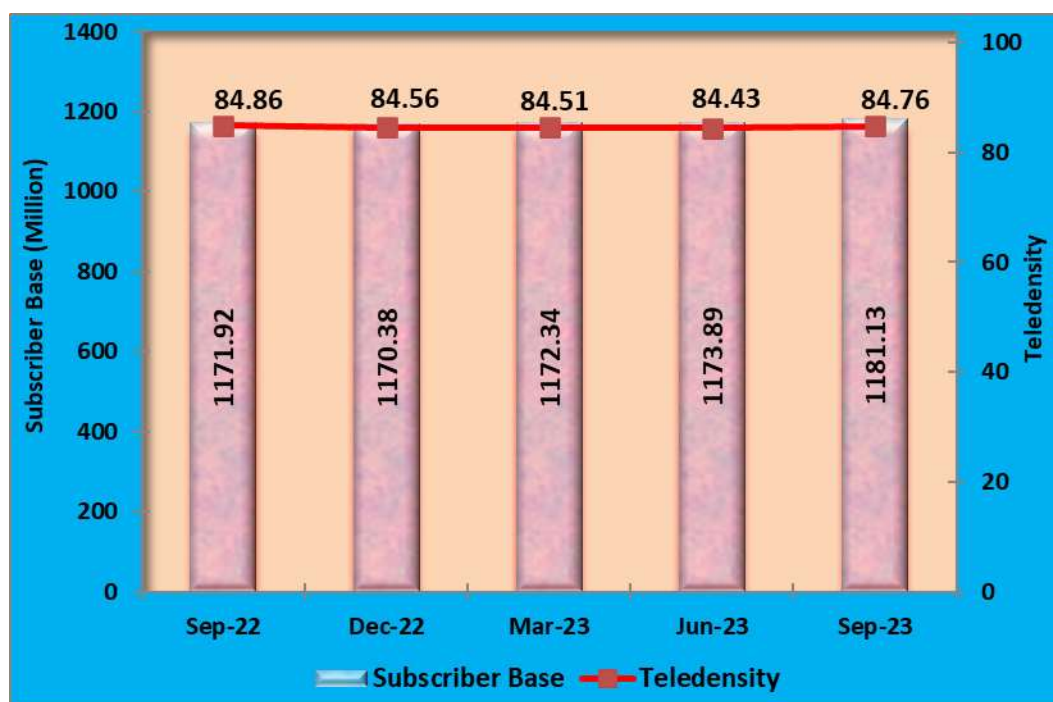
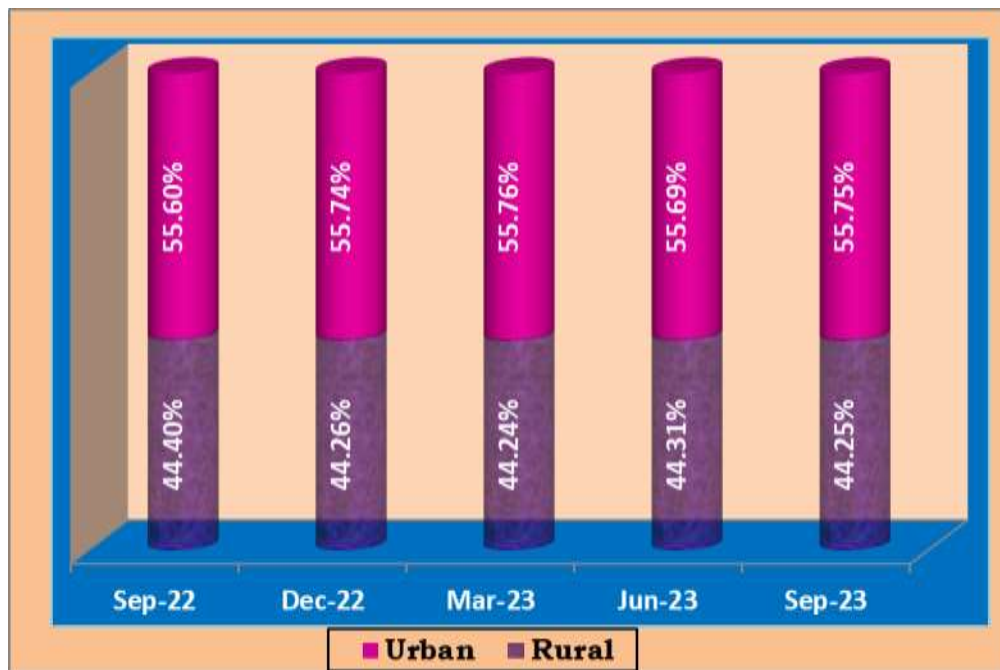


Table 1.1: Subscriber Base & Tele-density - Rural & Urban

Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
Sep-22	520.30	651.61	58.01	134.62
Dec-22	517.99	652.39	57.69	134.16
Mar-23	518.63	653.71	57.71	133.81
Jun-23	520.19	653.70	57.83	133.19
Sep-23	522.66	658.46	58.05	133.54

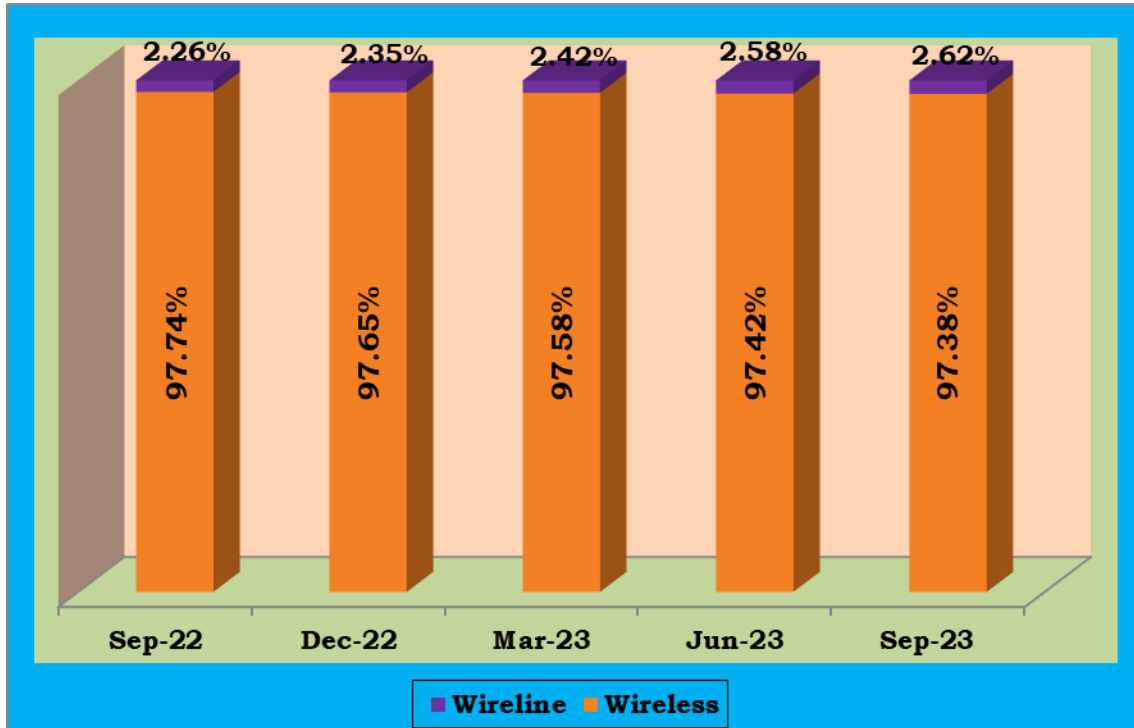
- 1.2 Telephone subscription in Urban areas increased from 653.70 million at the end of Jun-23 to 658.46 million at the end of Sep-23 and Urban Tele-density also increased from 133.19% to 133.54% at the end of the quarter.
- 1.3 Rural telephone subscription increased from 520.19 million at the end of Jun-23 to 522.66 million at the end of Sep-23 and Rural Tele-density also increased from 57.83% to 58.05% at the end of the quarter.
- 1.4 The Y-O-Y rates of growth in Urban and Rural telephone subscriptions from Sep-22 to Sep-23 are 1.05% and 0.45% respectively. The Y-O-Y rates of growth in Urban and Rural Tele-density from Sep-22 to Sep-23 are -0.80% and 0.07% respectively.

Chart 1.2: Market Share - Rural & Urban Subscribers



- 1.5 Share of subscriptions of rural areas in the total telephone subscriptions decreased from 44.31% at the end of Jun-23 to 44.25% at the end of Sep-23.

Chart 1.3: Composition of Access subscription - Wireline & Wireless



1.6 Share of wireline subscription in total telephone subscription increased from 2.58% at the end of Jun-23 to 2.62% at the end of Sep-23.

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

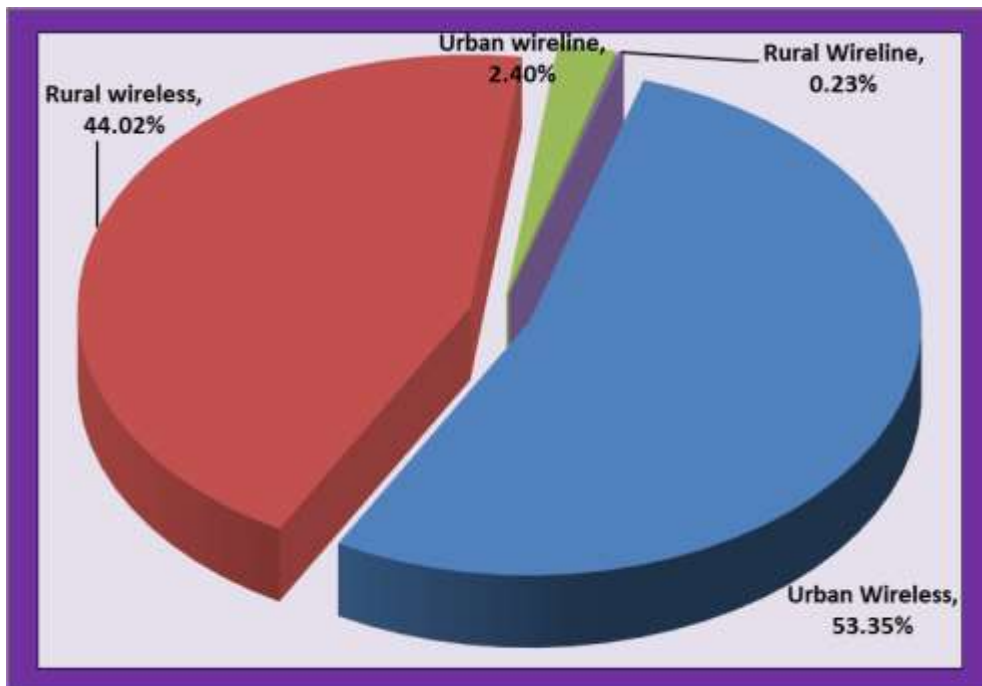


Table 1.2: Service Area wise Access (Wireless+Wireline) Subscriber base

Service Area	Subscribers (million)			
	Jun-23	Sep-23	Net Additions	Rate of Growth
Andhra Pradesh	85.59	85.45	-0.14	-0.16%
Assam	25.49	25.82	0.32	1.27%
Bihar	93.20	93.81	0.62	0.66%
Delhi	58.63	59.70	1.07	1.83%
Gujarat	67.51	67.40	-0.11	-0.16%
Haryana	26.98	26.85	-0.13	-0.47%
Himachal Pradesh	8.94	9.07	0.124	1.39%
Jammu & Kashmir	12.59	12.64	0.05	0.42%
Karnataka	68.93	68.79	-0.14	-0.20%
Kerala	43.68	43.98	0.30	0.68%
Madhya Pradesh	78.56	79.12	0.56	0.71%
Maharashtra	93.51	94.88	1.38	1.47%
Mumbai	37.26	37.35	0.10	0.26%
North East	12.52	12.60	0.08	0.64%
Odisha	33.83	33.66	-0.17	-0.49%
Punjab	36.56	36.37	-0.19	-0.51%
Rajasthan	64.65	66.45	1.80	2.78%
Tamil Nadu	79.48	80.45	0.96	1.21%
Uttar Pradesh(E)	100.97	101.18	0.21	0.21%
Uttar Pradesh(W)	63.18	63.18	0.00	0.01%
Kolkata	24.88	24.98	0.10	0.42%
West Bengal	56.97	57.39	0.42	0.73%
All India	1,173.89	1,181.13	7.24	0.62%

1.7 All service areas, except Andhra Pradesh, Gujarat, Haryana, Karnataka, Odisha and Punjab showed growth in their subscriber base during the quarter ending Sep-23. Rajasthan service area showed maximum growth of 2.78% during the quarter.

Table 1.3: Service Area wise Rural-Urban Subscribers at QE Sep-23

Service Area	Number of Subscribers (in million)			
	Total	Rural	Urban	% of Rural Subscribers
Andhra Pradesh	85.45	41.15	44.30	48.15%
Assam	25.82	16.25	9.56	62.96%
Bihar	93.81	61.99	31.83	66.08%
Delhi	59.70	1.81	57.89	3.03%
Gujarat	67.40	25.78	41.62	38.25%
Haryana	26.85	12.07	14.78	44.97%
Himachal Pradesh	9.07	5.81	3.25	64.11%
Jammu & Kashmir	12.64	6.08	6.56	48.12%
Karnataka	68.79	25.04	43.75	36.40%
Kerala	43.98	19.55	24.43	44.45%
Madhya Pradesh	79.12	35.81	43.31	45.26%
Maharashtra	94.88	42.13	52.75	44.40%
Mumbai	37.35	1.22	36.14	3.26%
North East	12.60	6.46	6.14	51.26%
Odisha	33.66	21.94	11.72	65.19%
Punjab	36.37	12.11	24.26	33.29%
Rajasthan	66.45	35.13	31.32	52.87%
Tamil Nadu	80.45	23.86	56.59	29.66%
U.P.(E)	101.18	62.18	39.01	61.45%
U.P.(W)	63.18	29.83	33.35	47.21%
Kolkata	24.98	1.65	23.33	6.61%
West Bengal	57.39	34.82	22.57	60.67%
All India	1,181.13	522.66	658.46	44.25%

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 66.08% 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 7.24 million during QE Sep-23 as compared to the net increase of 1.86 million during QE Jun-23.

Table 1.4 : Service Area wise Tele-density

Service Area/ States	As on 30 th June, 2023			As on 30 th September, 2023		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Andhra Pradesh	77.25	116.68	93.58	76.95	116.37	93.34
Assam	53.11	168.83	71.16	53.65	170.38	71.90
Bihar	43.77	120.87	55.81	43.85	121.46	55.98
Delhi	-	-	272.81	-	-	276.54
Gujarat	70.08	115.12	92.37	69.77	114.42	91.92
Haryana	68.56	116.75	88.94	68.95	114.46	88.26
Himachal Pradesh	85.59	414.90	119.57	86.56	420.80	121.08
J&K	62.49	153.36	90.33	62.88	152.98	90.54
Karnataka	66.96	144.71	101.61	66.64	144.09	101.25

Service Area/ States	As on 30 th June, 2023			As on 30 th September, 2023		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Kerala	-	-	121.69	-	-	122.40
Madhya Pradesh	40.23	134.03	67.02	42.66	128.80	67.30
Maharashtra (incl. Mumbai)*	68.47	136.81	101.93	66.16	141.06	102.88
North East	62.62	110.29	79.26	62.81	110.66	79.58
Orissa	61.56	139.39	76.30	61.05	139.05	75.87
Punjab	67.79	172.67	114.13	67.71	170.81	113.36
Rajasthan	57.19	140.88	79.51	58.78	143.87	81.50
Tamil Nadu	64.83	131.84	101.13	66.35	132.52	102.27
Uttar Pradesh (incl. UPE & UPW)*	49.22	117.92	66.15	49.10	117.86	66.07
West Bengal (incl. Kolkata)*	57.46	122.54	81.57	57.76	122.97	81.99
All India	57.83	133.19	84.43	58.05	133.54	84.76

* 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 Himachal Pradesh service area has the highest Rural Tele-density of 86.56 followed by Andhra Pradesh service area of 76.95. Madhya Pradesh service area has the lowest Rural Tele-density of 42.66 followed by Bihar service area with rural tele-density of 43.85 in QE Sep-23.

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

Sl. No.	States/UT	Total Telephone Subscription (million)		
		Total	Rural	Urban
1	Andhra Pradesh	44.03	24.40	19.63
2	Arunachal Pradesh	1.26	0.83	0.43
3	Assam	25.82	16.25	9.56
4	Bihar	69.24	48.41	20.83
5	Chhattisgarh	20.25	9.73	10.52
6	Goa	2.57	0.88	1.69
7	Gujarat	66.47	25.44	41.03
8	Haryana	33.47	12.13	21.34
9	Himachal Pradesh	9.07	5.81	3.25
10	Jharkhand	24.57	13.58	11.00
11	Karnataka	68.79	25.04	43.75
12	Kerala	43.91	19.53	24.38
13	Madhya Pradesh	58.87	26.07	32.80
14	Maharashtra Incl. Mumbai	129.67	42.47	87.20
15	Manipur	2.43	0.98	1.46
16	Meghalaya	2.60	1.61	0.99
17	Mizoram	1.41	0.53	0.88
18	Nagaland	1.69	0.86	0.83
19	Odisha	33.66	21.94	11.72
20	Punjab	34.31	12.06	22.24
21	Rajasthan	66.45	35.13	31.32
22	Sikkim	0.89	0.54	0.35
23	Tamil Nadu	79.22	23.49	55.74
24	Telangana	41.42	16.75	24.67
25	Tripura	3.21	1.66	1.55
26	Uttar Pradesh (UPE + UPW)	161.02	85.93	75.10
27	Uttarakhand	12.39	6.08	6.31
28	West Bengal Incl. Kolkata	80.95	35.68	45.27
Union Territories				
1	Andaman & Nicobar Islands	0.54	0.25	0.28
2	Chandigarh	2.06	0.04	2.02
3	Dadra and Nagar Haveli and Daman and Diu	0.93	0.34	0.59
4	Delhi	44.03	1.75	42.28
5	Jammu & Kashmir	12.20	5.85	6.35
6	Ladakh	0.44	0.24	0.21
7	Lakshdweep	0.07	0.02	0.05
8	Puduchery	1.22	0.37	0.85
Total		1181.13	522.66	658.46

Table 1.6: State/UT wise total Tele-density

Sl.No.	State/UT	Total Tele-density (%)		
		Total	Rural	Urban
1	Andhra Pradesh	82.67	122.29	225.87
2	Arunachal Pradesh	80.21	71.17	106.25
3	Assam	71.90	53.65	170.38
4	Bihar	54.17	43.19	132.21
5	Chhattisgarh	66.66	44.08	126.78
6	Goa	162.47	-	-
7	Gujarat	92.30	69.29	116.24
8	Haryana	110.02	69.25	165.32
9	Himachal Pradesh	121.08	86.56	420.80
10	Jharkhand	61.81	46.33	105.25
11	Karnataka	101.25	66.64	144.09
12	Kerala	122.45	-	-
13	Madhya Pradesh	67.53	42.16	129.46
14	Maharashtra Incl. Mumbai	102.14	65.20	141.08
15	Manipur	75.07	44.71	137.93
16	Meghalaya	77.29	60.18	142.97
17	Mizoram	113.29	94.19	128.83
18	Nagaland	75.07	71.52	79.14
19	Odisha	75.87	61.05	139.05
20	Punjab	111.22	67.47	171.55
21	Rajasthan	81.50	58.78	143.87
22	Sikkim	127.86	-	-
23	Tamil Nadu (incl. Chennai)	102.90	66.23	134.20
24	Telangana	108.19	84.47	133.67
25	Tripura	77.06	66.33	93.26
26	Uttar Pradesh (UPE +UPW)	67.92	47.76	131.38
27	Uttarakhand	105.86	81.42	148.99
28	West Bengal Incl. Kolkata	81.46	57.03	123.02
Union Territories				
1	Andaman & Nicobar Islands	132.59	112.12	158.23
2	Chandigarh	166.58	-	-
3	Dadra and Nagar Haveli and Daman and Diu	70.83	-	-
4	Delhi	203.97	-	-
5	Jammu & Kashmir	89.30	61.74	151.53
6	Ladakh	146.78	-	-
7	Lakshdweep	95.81	-	-
8	Puduchery	73.33	74.75	72.73
Total		84.76	58.05	133.54

Table 1.7 : Service Provider wise Growth in Subscriber base

Service Provider	Subscriber base (millions)			Rate of Growth (%)	Market Share in QE Jun-23 (%)	Market Share in QE Sep-23 (%)
	Jun-23	Sep-23	Net Additions			
Reliance Jio	448.53	459.67	11.13	2.48	38.21	38.92
Bharti Airtel	381.24	385.71	4.47	1.17	32.48	32.66
Vodafone Idea Ltd	230.34	228.19	-2.15	-0.93	19.62	19.32
BSNL	106.10	99.92	-6.18	-5.82	9.04	8.46
MTNL	4.27	4.20	-0.07	-1.70	0.36	0.36
Tata Teleservices	2.25	2.27	0.02	0.74	0.19	0.19
Quadrant	0.36	0.37	0.017	4.74	0.03	0.03
Reliance Com.	0.14	0.14	0.00	-3.44	0.01	0.01
VMIPL	0.01	0.02	0.004	32.96	0.00	0.001
APSFL	0.66	0.65	-0.01	-0.93	0.06	0.06
Total	1,173.89	1,181.13	7.24	0.62	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 38.92% in the access segment in terms of number of subscribers with 459.67 million subscribers at the end of Sep-23 followed by M/s Bharti Airtel Ltd with 385.71 million subscribers.

1.12 In term of net addition, Reliance Jio became the biggest gainer with net addition of 11.13 million telephone subscribers during the QE Sep-23.

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	459.67	198.06	43.09%	37.89%
Bharti Airtel	385.71	182.14	47.22%	34.85%
Vodafone Idea Ltd	228.19	110.65	48.49%	21.17%
BSNL	99.92	31.28	31.30%	5.98%
MTNL	4.20	0.04	0.91%	0.01%
Tata Teleservices	2.27	0.01	0.40%	0.002%
Quadrant	0.37	0.02	4.71%	0.003%
Reliance Com.	0.14	0.0004	0.26%	0.0001%
VMIPL	0.02	-	0.00%	0.00%
APSFL	0.65	0.48	74.00%	0.09%
Total	1,181.13	522.66	44.25%	100

1.13 M/s APSFL is the telecom service provider with highest proportion of rural telephone subscribers of 74% followed by Vodafone Idea Ltd of 48.49% to their total telephone subscribers at the end of Sep-23.

Section B : Wireless Service

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

[As on 30th September, 2023]

Sl.No.	Service Provider	Licensed Service Areas
1	Reliance Jio Infocom Ltd	All India
2	Bharti Airtel 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 September, 2023

1	AdPay Mobile Payment India Pvt. Ltd	Tamil Nadu including Chennai
2	Surftelecom Private Limited	Tamil Nadu including Chennai

Source : As reported by telecom service providers

1.14 Number of wireless subscriber base has increased from 1,143.58 million at the end of Jun-23 to 1,150.15 million at the end of Sep-23, thereby showing a quarterly rate of growth of 0.57%. During the quarter, net increase of 6.57 million wireless subscribers has been recorded.

1.15 The wireless subscriber base recorded a Y-O-Y rate of growth of 0.41% in QE Sep-23 over the same quarter in the previous year.

1.16 Wireless Teledensity in the country increased from 82.25% at the end of Jun-23 to 82.54% at the end of Sep-23.

Chart 1.6: Wireless Subscriber Base and Teledensity

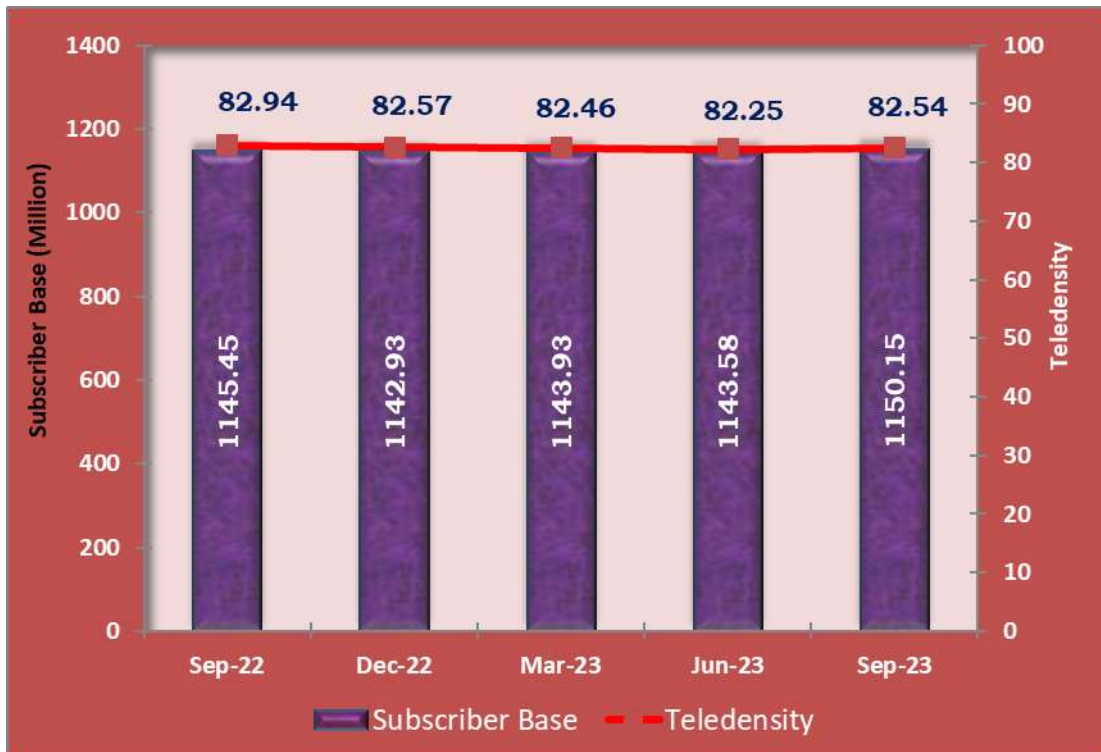


Table 1.10: Wireless Subscriber Base & Tele-density - Rural & Urban

Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
Sep-22	518.31	627.14	57.79	129.56
Dec-22	515.89	627.03	57.46	128.94
Mar-23	516.38	627.54	57.46	128.45
Jun-23	517.51	626.07	57.53	127.56
Sep-23	519.99	630.17	57.75	127.81

1.17 Number of Rural Wireless subscribers increased from 517.51 million at the end of Jun-23 to 519.99 million at the end of Sep-23 and number of urban wireless subscribers also increased from 626.07 million to 630.17 million during the quarter. Quarterly rate of growth of Rural and Urban wireless subscriptions are 0.48% and 0.65% respectively during QE Sep-23.

1.18 The share of rural wireless subscription decreased from 45.25% million at the end of Jun-23 to 45.21% million at the end of Sep-23.

Chart 1.7: Wireless Market Share - Rural & Urban

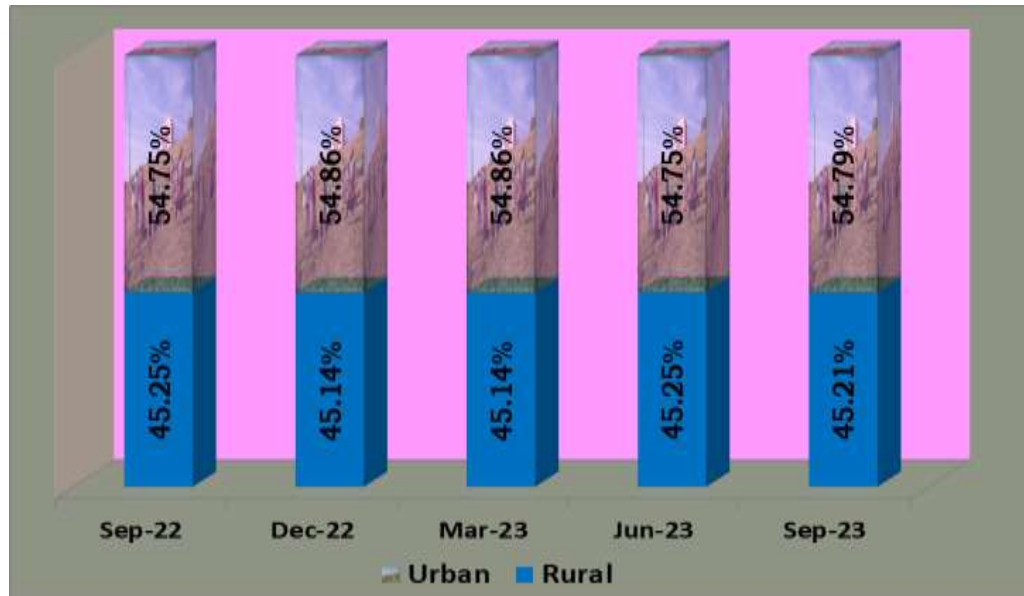


Table 1.11: Growth in Wireless Subscriber base

Service Provider	Subscriber Base (millions)			Rate of Growth	Market Share Jun-23	Market Share Sep-23
	Jun-23	Sep-23	Net Addition			
Reliance Jio	438.58	449.21	10.63	2.42%	38.35%	39.06%
Bharti Airtel	373.73	377.78	4.06	1.09%	32.68%	32.85%
Vodafone Idea Ltd	229.66	227.53	-2.12	-0.92%	20.08%	19.78%
BSNL	99.62	93.67	-5.95	-5.97%	8.71%	8.14%
MTNL	1.99	1.95	-0.04	-2.03%	0.17%	0.17%
Reliance Com.	0.003	0.002	-0.0001	-4.91%	0.0002%	0.0002%
Total	1,143.58	1,150.15	6.57	0.57%	100	100

1.19 M/s Reliance Jio Infocom Ltd. is the market leader with a wireless subscriber base of 449.21 million which translates into market share of 39.06% and

M/s Bharti Airtel Ltd. is at 2nd position with a total subscriber base of 377.78 million and market share of 32.85%.

- 1.20 In terms of net additions during QE Sep-23 except M/s Reliance Jio and M/s Bharti Airtel Ltd., all other service providers have showed negative growth in their wireless subscribers.

Table 1.12: Service Area wise Wireless Subscriber base

Service Area	Subscriber base (in million)			
	Jun-23	Sep-23	Net Additions	Rate of change (%)
Andhra Pradesh	82.34	82.17	-0.17	-0.20%
Assam	25.20	25.51	0.31	1.25%
Bihar	92.46	93.04	0.59	0.64%
Delhi	54.41	55.39	0.98	1.80%
Gujarat	66.16	66.03	-0.13	-0.19%
Haryana	26.48	26.34	-0.14	-0.54%
Himachal Pradesh	8.79	8.91	0.12	1.37%
Jammu & Kashmir	12.22	12.26	0.04	0.36%
Karnataka	65.85	65.66	-0.19	-0.29%
Kerala	42.29	42.58	0.28	0.67%
Madhya Pradesh	77.13	77.62	0.49	0.64%
Maharashtra	92.00	93.37	1.36	1.48%
Mumbai	33.79	33.88	0.08	0.24%
North East	12.30	12.37	0.07	0.57%
Orissa	33.41	33.21	-0.20	-0.61%
Punjab	35.25	35.01	-0.25	-0.70%
Rajasthan	63.76	65.53	1.77	2.78%
Tamil Nadu	76.75	77.67	0.92	1.20%
U.P.(E)	100.17	100.34	0.18	0.18%
U.P.(W)	62.35	62.31	-0.04	-0.07%
Kolkata	23.94	24.03	0.09	0.37%
West Bengal	56.53	56.92	0.40	0.70%
All India	1,143.58	1,150.15	6.57	0.57%

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

Service Area	Subscriber base (in million)			
	Total	Rural	Urban	% of Rural Subscribers
Andhra Pradesh	82.17	40.47	41.70	49.25%
Assam	25.51	16.23	9.28	63.61%
Bihar	93.04	61.92	31.13	66.54%
Delhi	55.39	1.80	53.59	3.26%
Gujarat	66.03	25.72	40.31	38.95%
Haryana	26.34	11.98	14.36	45.47%
Himachal Pradesh	8.91	5.77	3.15	64.69%
Jammu & Kashmir	12.26	6.07	6.20	49.46%
Karnataka	65.66	24.95	40.70	38.00%
Kerala	42.58	18.89	23.68	44.38%
Madhya Pradesh	77.62	35.75	41.87	46.06%
Maharashtra	93.37	42.01	51.36	44.99%
Mumbai	33.88	1.21	32.67	3.56%
North East	12.37	6.44	5.92	52.10%
Orissa	33.21	21.90	11.31	65.95%
Punjab	35.01	11.92	23.09	34.05%
Rajasthan	65.53	35.07	30.46	53.52%
T.N. (incl. Chennai)	77.67	23.59	54.07	30.37%
U.P.(E)	100.34	62.15	38.20	61.93%
U.P.(W)	62.31	29.78	32.53	47.79%
Kolkata	24.03	1.65	22.38	6.87%
West Bengal	56.92	34.72	22.20	61.00%
All India	1,150.15	519.99	630.17	45.21%

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

Table 1.14: Service Area wise Wireless Tele-density

Service Area	As on 30 th June, 2023			As on 30 th September, 2023		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
A.P.	75.98	109.91	90.03	75.68	109.53	89.76
Assam	53.03	163.98	70.34	53.57	165.40	71.05
Bihar	43.72	118.31	55.36	43.79	118.80	55.52
Delhi	-	-	253.19	-	-	256.59
Gujarat	69.88	111.59	90.52	69.61	110.81	90.05
Haryana	68.01	113.66	87.32	68.40	111.24	86.58
H.P.	84.88	401.46	117.55	85.86	406.95	119.02
J&K	62.32	145.09	87.68	62.70	144.56	87.84
Karnataka	66.73	134.81	97.08	66.40	134.06	96.64
Kerala	-	-	117.82	-	-	118.50
M.P.	40.16	129.92	65.80	42.59	124.51	66.03
Maharashtra (incl. Mumbai)*	68.27	129.11	98.06	65.96	133.34	99.00
North East	62.47	106.50	77.84	62.66	106.72	78.10
Orissa	61.44	134.93	75.36	60.93	134.19	74.85
Punjab	66.79	164.73	110.06	66.67	162.54	109.12
Rajasthan	57.09	137.05	78.41	58.68	139.93	80.37
Tamil Nadu	64.07	126.05	97.65	65.61	126.63	98.73
Uttar Pradesh (incl. UPE&UPW)*	49.18	115.38	65.49	49.06	115.20	65.38
West Bengal (incl. Kolkata)*	57.31	119.08	80.19	57.61	119.43	80.58
All India	57.53	127.56	82.25	57.75	127.81	82.54

* 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 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 1.15 : State/UT wise Wireless Subscriber Base

Sl. No.	States/UT	Wireless Subscribers (in million)		
		Total	Rural	Urban
1	Andhra Pradesh	41.97	23.78	18.19
2	Arunachal Pradesh	1.24	0.83	0.42
3	Assam	25.51	16.23	9.28
4	Bihar	68.79	48.36	20.43
5	Chhattisgarh	19.92	9.72	10.20
6	Goa	2.51	0.86	1.65
7	Gujarat	65.10	25.38	39.72
8	Haryana	32.79	12.03	20.76
9	Himachal Pradesh	8.91	5.77	3.15
10	Jharkhand	24.25	13.56	10.70
11	Karnataka	65.66	24.95	40.70
12	Kerala	42.51	18.88	23.63
13	Madhya Pradesh	57.70	26.03	31.68
14	Maharashtra	124.74	42.35	82.39
15	Manipur	2.38	0.97	1.41
16	Meghalaya	2.55	1.60	0.94
17	Mizoram	1.37	0.53	0.85
18	Nagaland	1.66	0.86	0.80
19	Odisha	33.21	21.90	11.31
20	Punjab	33.16	11.88	21.28
21	Rajasthan	65.53	35.07	30.46
22	Sikkim	0.88	0.54	0.34
23	Tamil Nadu	76.50	23.23	53.27
24	Telangana	40.21	16.69	23.51
25	Tripura	3.17	1.66	1.51
26	Uttar Pradesh	159.38	85.87	73.50
27	Uttarakhand	12.07	6.06	6.02
28	West Bengal	79.58	35.61	43.97
Union Territories				
1	Andaman & Nicobar Islands	0.49	0.23	0.26
2	Chandigarh	1.85	0.04	1.80
3	Dadra and Nagar Haveli and Daman and Diu	0.93	0.34	0.58
4	Delhi	40.15	1.75	38.40
5	Jammu & Kashmir	11.82	5.83	5.99
6	Ladakh	0.44	0.24	0.20
7	Lakshdweep	0.06	0.02	0.05
8	Puduchery	1.16	0.36	0.80
Total		1150.15	519.99	630.17

Table 1.16 : State/UT wise Wireless Tele-density

Sl.No.	State/UT	Wireless Tele-density (%)		
		Total	Rural	Urban
1	Andhra Pradesh	78.79	70.67	92.73
2	Arunachal Pradesh	79.11	70.90	102.74
3	Assam	71.05	53.57	165.40
4	Bihar	53.82	43.15	129.68
5	Chhattisgarh	65.56	44.02	122.91
6	Goa	158.74	-	-
7	Gujarat	90.41	69.13	112.54
8	Haryana	107.78	68.68	160.82
9	Himachal Pradesh	119.02	85.86	406.95
10	Jharkhand	61.01	46.26	102.39
11	Karnataka	96.64	66.40	134.06
12	Kerala	118.55	-	-
13	Madhya Pradesh	66.19	42.09	125.04
14	Maharashtra	98.25	65.01	133.28
15	Manipur	73.47	44.55	133.34
16	Meghalaya	75.62	60.09	135.23
17	Mizoram	110.31	94.08	123.52
18	Nagaland	73.79	71.49	76.41
19	Odisha	74.85	60.93	134.19
20	Punjab	107.51	66.43	164.15
21	Rajasthan	80.37	58.68	139.93
22	Sikkim	127.06	-	-
23	Tamil Nadu	99.36	65.51	128.27
24	Telangana	105.01	84.18	127.38
25	Tripura	76.05	66.12	91.03
26	Uttar Pradesh	67.22	47.73	128.59
27	Uttarakhand	103.15	81.08	142.09
28	West Bengal	80.09	56.91	119.50
Union Territories				
1	Andaman & Nicobar Islands	122.34	102.49	147.21
2	Chandigarh	149.25	-	-
3	Dadra and Nagar Haveli and Daman and Diu	70.31	-	-
4	Delhi	185.98	-	-
5	Jammu & Kashmir	86.55	61.56	142.97
6	Ladakh	146.05	-	-
7	Lakshdweep	91.81	-	-
8	Puduchery	69.67	72.37	68.53
All India Tele-density		82.54	57.75	127.81

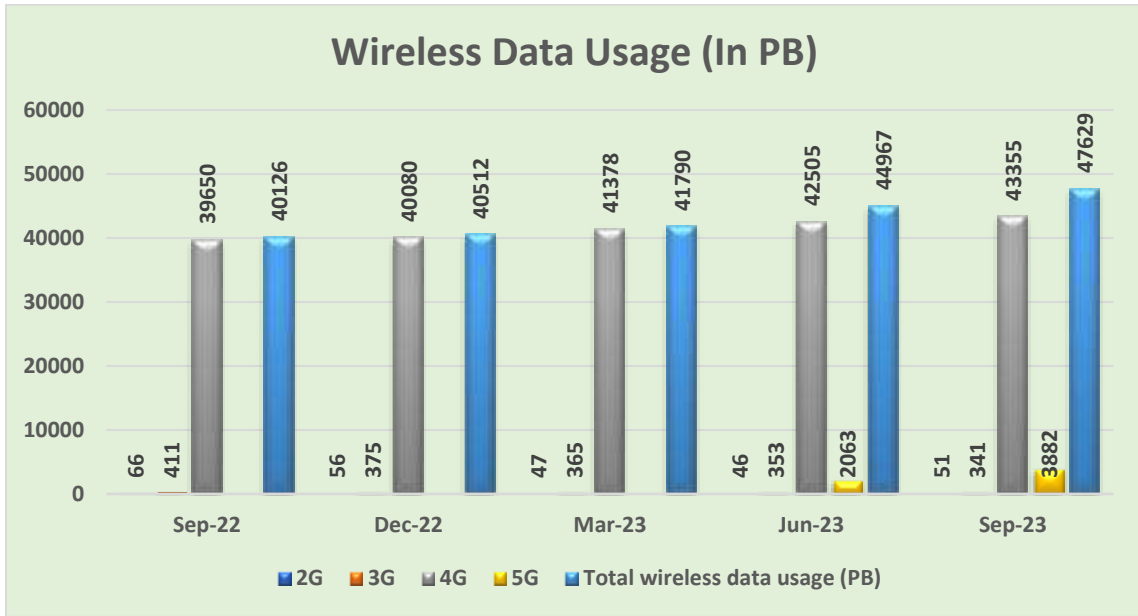
**Table 1.17 : Rural Wireless Subscriber base and Market Share
(as on 30.09.2023)**

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	449.21	197.86	44.05%	38.05%
Bharti Airtel	377.78	182.14	48.21%	35.03%
Vodafone Idea	227.53	110.65	48.63%	21.28%
BSNL	93.67	29.31	31.29%	5.64%
MTNL	1.95	0.04	1.81%	0.01%
Reliance Com.	0.002	0.00	0.00%	0.00%
Total	1,150.15	519.99	45.21%	100%

Wireless Data Usage

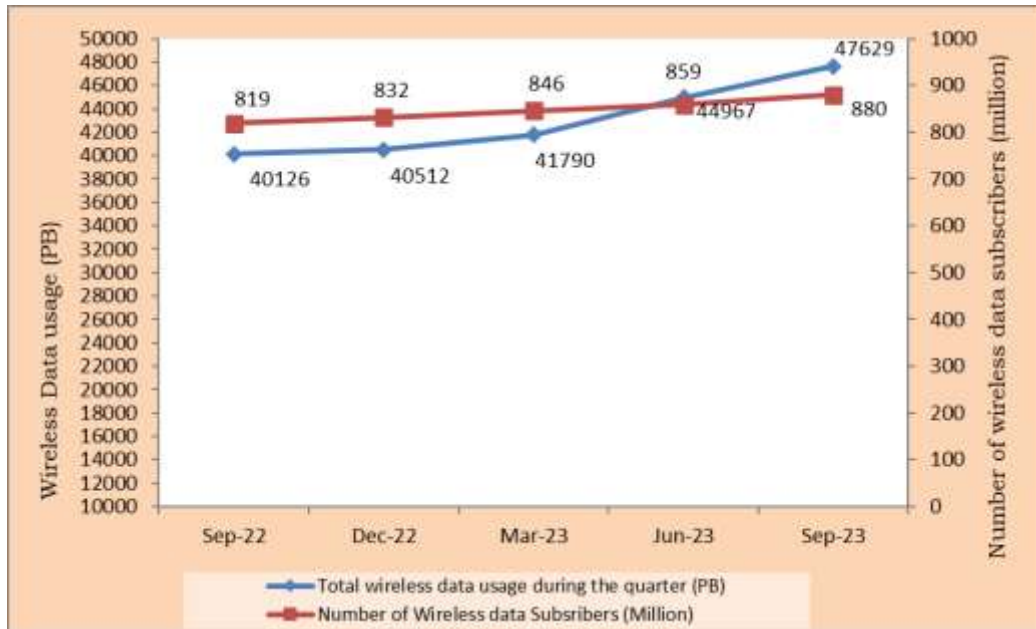
- 1.22 Volume of total wireless data usage increased from 44,967 PB during Q.E. Jun-23 to 47,629 PB during Q.E. Sep-23 with quarterly rate of growth of 5.92%. Out of total data wireless usage, 2G data usage was 51 PB, 3G data usage was 341 PB, 4G data usage was 43,355 PB and 5G data usage was 3,882 PB during the quarter.
- 1.23 Total number of wireless data subscribers increased from 859.33 million at the end of Jun-23 to 880.11 million at the end of Sep-23.
- 1.24 The contribution of 2G, 3G, 4G and 5G data usage in total volume of wireless data usage are about 0.11%, 0.72%, 91.03% and 8.15% respectively during the QE Sep-23.
- 1.25 Technology-wise trend of growth in volume of wireless data usage is depicted in the following chart: -

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



1.26 The following chart depicts the trend of number of wireless data subscribers and volume of wireless data usage in QE Sep-23.

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 September, 2023]

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

1.27 Wireline subscribers base increased from 30.31 million at the end of Jun-23 to 30.98 million at the end of Sep-23 with quarterly rate of growth of 2.19%. Overall Wireline Teledensity in the country increased from 2.18% at the end of Jun-23 to 2.22% at the end of Sep-23.

1.28 Urban wireline subscriber base increased by 2.41% from 27.63 million at the end of Jun-23 to 28.30 million at the end of Sep-23. However, rural wireline subscription decreased by 0.05%, from 2.680 million to 2.679 million during the same period.

Chart 1.10: Wireline Subscriber Base and Tele-density

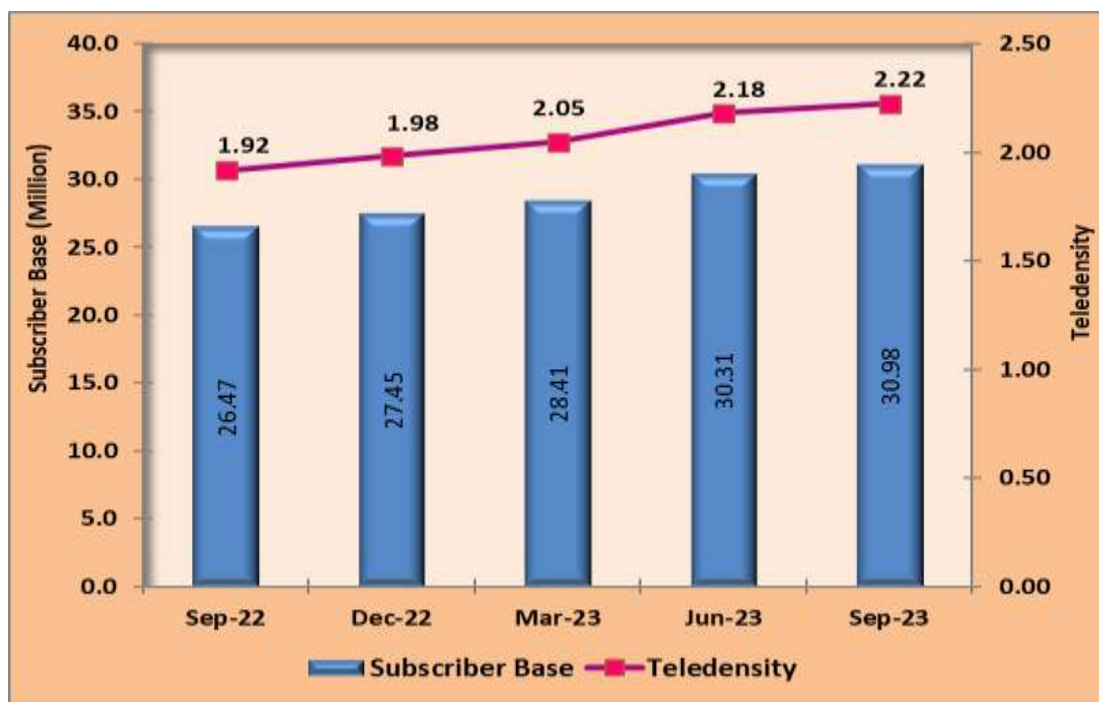


Table 1.19: Wireline Subscriber Base & Tele-density - Rural & Urban

Quarter ending	Subscriber Base (million)		Tele-density (%)	
	Rural	Urban	Rural	Urban
Sep-22	1.99	24.48	0.22	5.06
Dec-22	2.10	25.35	0.23	5.21
Mar-23	2.25	26.16	0.25	5.36
Jun-23	2.68	27.63	0.30	5.63
Sep-23	2.68	28.30	0.30	5.74

**Table 1.20 : Service Provider wise Wireline Subscriber base
(Rural - Urban) – As on 30.09.2023**

Service Provider	Subscriber Base (million)			Percentage of Rural subscribers	Share of Rural subscription
	Rural	Urban	Total		
BSNL	1.97	4.28	6.25	31.48%	73.43%
Bharti	0.003	7.92	7.93	0.04%	0.11%
MTNL	0.00003	2.24	2.24	0.002%	0.00%
Tata Tele.	0.01	2.26	2.27	0.40%	0.34%
Reliance Com.	0.0004	0.14	0.14	0.27%	0.01%
Quadrant	0.02	0.36	0.37	4.71%	0.66%
Vodafone Idea	0.00	0.66	0.66	--	0.00%
Reliance Jio	0.20	10.26	10.46	1.92%	7.49%
VM IPL	0.00	0.02	0.02	0.00%	0.00%
APSFL	0.48	0.17	0.65	74.00%	17.96%
Total	2.68	28.30	30.98	8.65%	100.00%

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

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



1.30 Market Share of Rural wireline subscription decreased from 8.84% in QE Jun-23 to 8.65% in QE Sep-23.

Table 1.21 : Service Provider wise growth in Wireline Subscriber base

Service Provider	Subscriber Base (million)			Rate of change (%)	Market share-Jun-23	Market share-Sep-23
	Jun-23	Sep-23	Net Addition			
Reliance Jio	9.95	10.46	0.50	5.07%	32.83%	33.75%
BSNL	6.48	6.25	-0.23	-3.50%	21.36%	20.17%
Bharti Airtel	7.51	7.93	0.42	5.55%	24.78%	25.59%
MTNL	2.28	2.24	-0.03	-1.42%	7.51%	7.25%
Vodafone Idea	0.68	0.66	-0.03	-3.74%	2.25%	2.12%
Tata Tele.	2.25	2.27	0.02	0.74%	7.42%	7.31%
Quadrant	0.36	0.37	0.02	4.74%	1.18%	1.21%
Reliance Com	0.14	0.14	0.00	-3.41%	0.46%	0.44%
VMIPL	0.01	0.02	0.00	32.96%	0.04%	0.06%
APSFL	0.66	0.65	-0.01	-0.93%	2.17%	2.10%
Total	30.31	30.98	0.66	2.19%	100	100

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

Service Area	Jun-23	Sep-23	Net Additions	Rate of Change (%)
Andhra Pradesh	3.25	3.28	0.03	0.96%
Assam	0.30	0.30	0.01	2.96%
Bihar	0.74	0.77	0.03	4.31%
Delhi	4.22	4.31	0.09	2.19%
Gujarat	1.35	1.37	0.02	1.31%
Haryana	0.49	0.51	0.02	3.70%
Himachal Pradesh	0.15	0.15	0.00	2.16%
Jammu & Kashmir	0.37	0.38	0.01	2.45%
Karnataka	3.08	3.13	0.06	1.86%
Kerala	1.39	1.40	0.01	0.96%
Madhya Pradesh	1.44	1.50	0.06	4.34%
Maharashtra	1.50	1.52	0.01	0.92%
Mumbai	3.46	3.48	0.01	0.43%
North East	0.22	0.23	0.01	4.19%
Odisha	0.42	0.45	0.04	8.60%
Punjab	1.30	1.36	0.06	4.49%
Rajasthan	0.89	0.92	0.03	2.93%
Tamil Nadu	2.74	2.78	0.04	1.57%
U.P.(E)	0.80	0.84	0.04	4.75%
U.P.(W)	0.83	0.87	0.04	5.39%
Kolkata	0.93	0.95	0.02	1.62%
West Bengal	0.45	0.47	0.02	4.32%
All India	30.31	30.98	0.66	2.19

1.31 Odisha service area showed maximum growth of 8.60% in their wireline subscriber base during the quarter ending Sep-23.

**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	3.28	0.68	2.60	20.65%
Assam	0.30	0.02	0.28	8.14%
Bihar	0.77	0.07	0.70	9.36%
Delhi	4.31	0.00	4.30	0.08%
Gujarat	1.37	0.06	1.31	4.28%
Haryana	0.51	0.10	0.41	18.87%
Himachal Pradesh	0.15	0.05	0.11	30.55%
Jammu & Kashmir	0.38	0.02	0.36	4.59%
Karnataka	3.13	0.09	3.05	2.80%
Kerala	1.40	0.66	0.75	46.76%
Madhya Pradesh	1.50	0.06	1.44	3.76%
Maharashtra	1.52	0.12	1.39	8.05%
Mumbai	3.48	0.01	3.47	0.33%
North East	0.23	0.02	0.22	6.57%
Odisha	0.45	0.04	0.41	9.50%
Punjab	1.36	0.19	1.17	13.69%
Rajasthan	0.92	0.06	0.86	6.75%
Tamil Nadu	2.78	0.27	2.51	9.63%
U.P.(E)	0.84	0.03	0.81	3.36%
U.P.(W)	0.87	0.05	0.82	5.73%
Kolkata	0.95	0.00	0.95	0.13%
West Bengal	0.47	0.09	0.37	20.32%
All India	30.98	2.68	28.30	8.65%

1.32 Kerala service area has the maximum share 46.76% of rural wireline subscriber in its total wireline subscriber base at the end of Sep-23.

Table 1.24: Service Area wise Wireline Tele-density

Service Area	As on 30 th June, 2023			As on 30 th September, 2023		
	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)	Rural Tele-density (%)	Urban Tele-density (%)	Total Tele-density (%)
Andhra Pradesh	1.27	6.77	3.55	1.27	6.84	3.58
Assam	0.08	4.85	0.83	0.08	4.98	0.85
Bihar	0.05	2.57	0.44	0.05	2.66	0.46
Delhi	-	-	19.61	-	-	19.95
Gujarat	0.20	3.54	1.85	0.16	3.61	1.87
Haryana	0.55	3.09	1.63	0.55	3.21	1.68
Himachal Pradesh	0.71	13.44	2.02	0.70	13.86	2.06
Jammu & Kashmir	0.17	8.26	2.65	0.18	8.41	2.71
Karnataka	0.22	9.90	4.53	0.23	10.03	4.61
Kerala	7.60	2.70	3.87	7.79	2.71	3.90
Madhya Pradesh	0.07	4.10	1.22	0.07	4.29	1.27
Maharashtra (incl. Mumbai)*	0.20	7.69	3.87	0.20	7.71	3.89
North East	0.15	3.80	1.42	0.15	3.94	1.48
Odisha	0.12	4.46	0.94	0.12	4.86	1.02
Punjab	1.00	7.94	4.07	1.04	8.27	4.24
Rajasthan	0.10	3.83	1.10	0.10	3.94	1.13
Tamil Nadu (incl. Chennai)	0.75	5.79	3.48	0.75	5.89	3.54
Uttar Pradesh (incl. UPE & UPW)*	0.04	2.55	0.66	0.04	2.66	0.69
West Bengal (incl. Kolkata)*	0.15	3.46	1.38	0.15	3.53	1.41
All India	0.30	5.63	2.18	0.30	5.74	2.22

* 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	2.06	0.62	1.44
2	Arunachal Pradesh	0.02	0.003	0.01
3	Assam	0.30	0.02	0.28
4	Bihar	0.45	0.05	0.40
5	Chhattisgarh	0.33	0.01	0.32
6	Goa	0.06	0.01	0.04
7	Gujarat	1.36	0.06	1.31
8	Haryana	0.68	0.10	0.58
9	Himachal Pradesh	0.15	0.05	0.11
10	Jharkhand	0.32	0.02	0.30
11	Karnataka	3.13	0.09	3.05
12	Kerala	1.40	0.65	0.75
13	Madhya Pradesh	1.16	0.04	1.12
14	Maharashtra Incl. Mumbai	4.94	0.12	4.82
15	Manipur	0.05	0.004	0.05
16	Meghalaya	0.06	0.003	0.05
17	Mizoram	0.04	0.001	0.04
18	Nagaland	0.03	0.000	0.03
19	Odisha	0.45	0.04	0.41
20	Punjab	1.15	0.19	0.96
21	Rajasthan	0.92	0.06	0.86
22	Sikkim	0.006	0.0006	0.00
23	Tamil Nadu	2.72	0.26	2.46
24	Telangana	1.22	0.06	1.16
25	Tripura	0.04	0.005	0.04
26	Uttar Pradesh (UPE+UPW)	1.65	0.05	1.59
27	Uttarakhand	0.32	0.03	0.29
28	West Bengal Incl. Kolkata	1.37	0.07	1.29
Union Territories				
1	Andaman & Nicobar Islands	0.04	0.02	0.02
2	Chandigarh	0.21	0.000	0.21
3	Dadra and Nagar Haveli and Daman and Diu	0.007	0.001	0.006
4	Delhi	3.88	0.0003	3.88
5	Jammu & Kashmir	0.38	0.02	0.36
6	Ladakh	0.002	0.001	0.002
7	Lakshdweep	0.003	0.002	0.001
8	Puduchery	0.06	0.01	0.05
Total		30.98	2.68	28.30

Table 1.26: State/UT wise Wireline Tele-density

Sl.No.	State/UT	Wireline Tele-density		
		Total (%)	Rural (%)	Urban (%)
1	Andhra Pradesh	6.16	2.01	13.27
2	Arunachal Pradesh	1.10	0.27	3.51
3	Assam	0.85	0.08	4.98
4	Bihar	0.35	0.04	2.54
5	Chhattisgarh	1.10	0.06	3.86
6	Goa	3.74	3.91	3.68
7	Gujarat	1.89	0.16	3.70
8	Haryana	2.24	0.57	4.50
9	Himachal Pradesh	2.06	0.70	13.86
10	Jharkhand	0.81	0.08	2.86
11	Karnataka	4.61	0.23	10.03
12	Kerala	3.90	7.77	2.72
13	Madhya Pradesh	1.33	0.07	4.42
14	Maharashtra Incl. Mumbai	3.89	0.18	7.79
15	Manipur	1.60	0.16	4.59
16	Meghalaya	1.67	0.10	7.74
17	Mizoram	2.98	0.11	5.31
18	Nagaland	1.29	0.03	2.73
19	Odisha	1.02	0.12	4.86
20	Punjab	3.72	1.04	7.40
21	Rajasthan	1.13	0.10	3.94
22	Sikkim	0.80	0.16	1.42
23	Tamil Nadu	3.53	0.72	5.93
24	Telengana	3.18	0.28	6.29
25	Tripura	1.02	0.21	2.23
26	Uttar Pradesh (UPE + UPW)	0.70	0.03	2.79
27	Uttarakhand	2.71	0.34	6.90
28	West Bengal incl. Kolkata	1.38	0.12	3.52
Union Territories				
1	Andaman & Nicobar Islands	10.24	9.62	11.01
2	Chandigarh	17.32	55.92	17.31
3	Dadra and Nagar Haveli and Daman and Diu	0.52	0.29	0.57
4	Delhi	17.99	0.33	18.06
5	Jammu & Kashmir	2.75	0.18	8.56
6	Ladakh	0.73	0.27	1.76
7	Lakshdweep	4.00	-	-
8	Puduchery	3.66	2.38	4.20
Total		2.22	0.30	5.74

Public Call Offices (PCO)

1.33 Total number of PCOs in the country decreased from 36,259 at the end of Jun-23 to 30,643 at the end of Sep-23. 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 an overall quarterly rate of decline of 15.49% and on Y-O-Y basis rate of decline of 46.36% at the QE Sep-23.

Table 1.27: Rate of change & Market share of PCOs

Service Provider	Jun-23	Sep-23	Rate of change (%)	Market share (%) (Jun-23)
BSNL	27,879	22,945	-17.70%	74.88%
MTNL	8,058	7,391	-8.28%	24.12%
Quadrant	322	307	-4.66%	1.00%
Total	36,259	30643	-15.49%	100%

Village Public Telephones (VPTs)

- 1.35 There are 6,40,930 inhabited villages in India as per census 2011. During the Q.E. Sep-23, there are 68,606 villages having Village Public Telephones (VPTs).
- 1.36 Number of VPTs remained same i.e. 68,606 at the end of Sep-23, as were at the end of Jun-23.
- 1.37 As per the information received in TRAI, at the end of Sep-23, only M/s BSNL was providing VPT in the country. Service area wise detailed table of VPT is available at **Annexure-1.4**.

Chart 1.13: Trend of number of VPTs



Section D: Internet Service

1.38 This section summarizes information submitted by internet service providers for the quarter ending Sep-23. **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 This report is compiled on the revised definition of Broadband Speed i.e. minimum download speed is 2Mbps. As per reports received from 1151 operators as compared to 1076 operators in last quarter, total number of internet subscribers increased from 895.83 million at the end of Jun-23 to 918.19 million at the end of Sep-23 with quarterly rate of growth of 2.50%. Out of total 918.19 million internet subscribers, 885 million were broadband subscribers and 33.19 million were narrowband subscribers.

1.40 Wired Internet subscribers increased from 35.54 million at the end of Jun-23 to 37.11 million at the end of Sep-23 with quarterly growth rate of 4.40%. Wireless Internet subscribers increased from 860.29 million at the end of Jun-23 to 881.08 million at the end of Sep-23 with quarterly rate of growth of 2.42%.

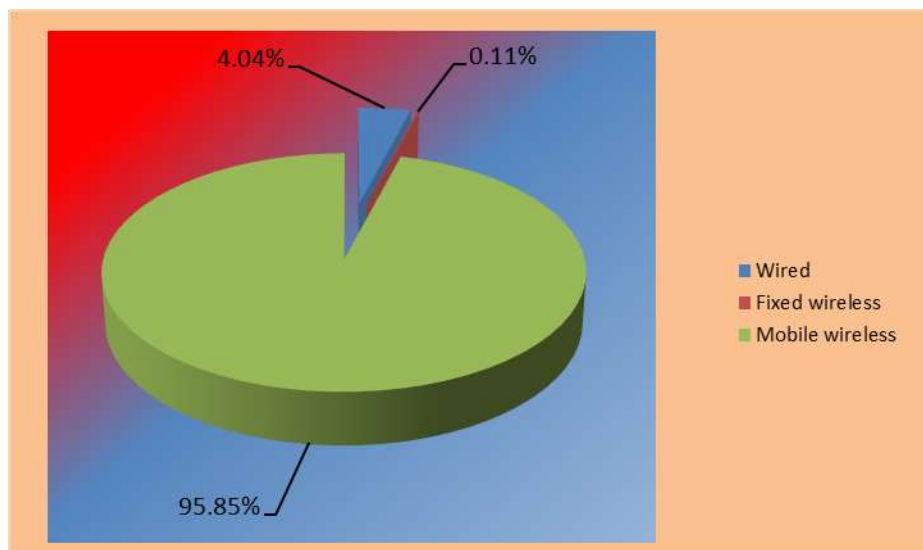
1.41 The number of Broadband subscribers increased from 861.47 million at the end of Jun-23 to 885 million at the end of Sep-23 with quarterly rate of growth of 2.73%. Number of Narrowband subscribers decreased from 34.36 million at the end of Jun-23 to 33.19 million at the end of Sep-23 with quarterly rate of decline by 3.41%.

Table 1.28: Trend of Internet subscriber base

Segment	Mode of Access								Total Subscribers (in million)	
	Wired Subscribers (in million)		Wireless Subscribers (in million)							
			Fixed Wireless (Wi-Fi, Wi-Max, Radio & VSAT)		Mobile Wireless (Phone + Dongle)		Total Wireless			
	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23
Broadband	35.10	36.87	0.95	0.97	825.41	847.17	826.37	848.13	861.47	885.00
Narrowband	0.44	0.24	0.005	0.004	33.92	32.94	33.92	32.95	34.36	33.19
Total	35.54	37.11	0.96	0.97	859.23	880.11	860.29	881.08	895.83	918.19

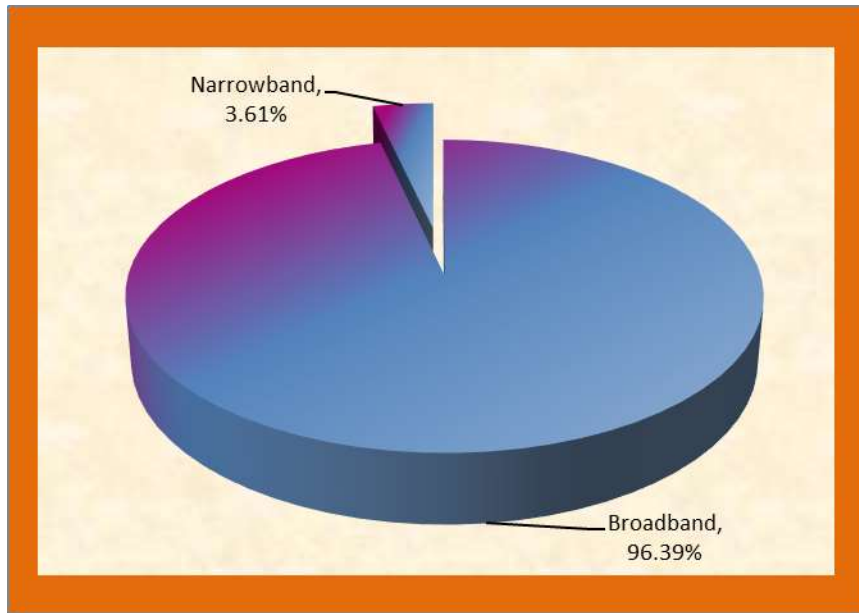
1.42 The following charts present the composition of Internet Subscribers by mode of access and composition of Broadband & Narrowband subscription as on 30th September, 2023.

Chart 1.14: Composition of Internet subscription



1.43 Out of total internet subscribers, 95.85% subscribers are using Mobile devices for access of internet service. Wired internet subscribers are only 4.04% in total internet subscribers at the end of Sep-23.

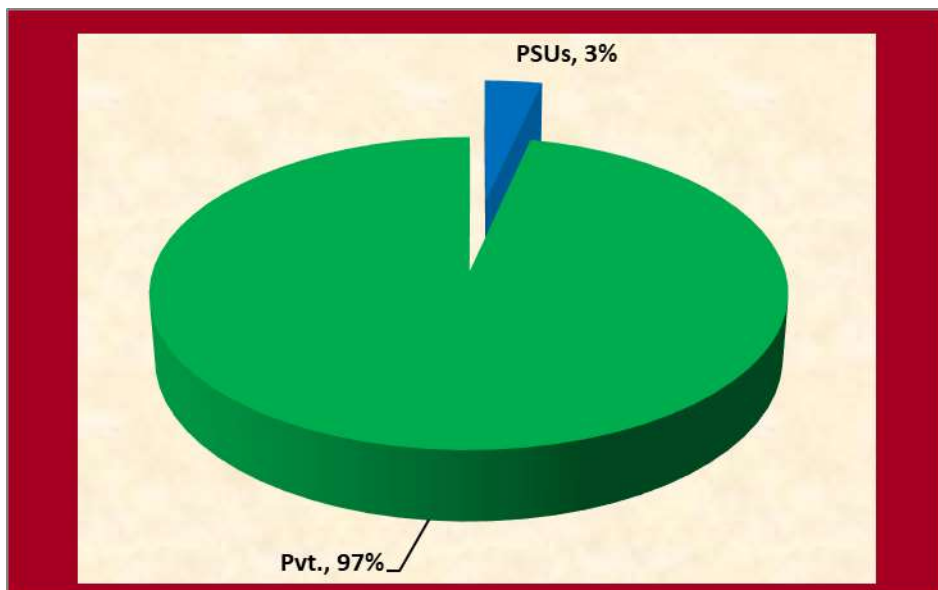
Chart 1.15 : Composition of Broadband & Narrowband subscription



1.44 Out of total internet subscribers, 96.39% subscribers are using broadband for access of internet.

1.45 Share of private internet service providers in total internet subscriber base is 97%, at QE Sep-23. The following charts present the composition of market share of PSUs and Private Internet service providers.

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



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

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

Telecom Service Area	Narrowband		Broadband		Total (Sep-2023)		Total (Jun-2023)	
	Rural	Urban	Rural	Urban	Rural	Urban	Rural	Urban
Andhra Pradesh	1.14	1.09	28.73	37.43	29.86	38.51	29.43	37.70
Assam	0.26	0.11	11.33	6.69	11.59	6.81	11.26	6.68
Bihar	1.76	0.60	43.08	24.40	44.84	25.00	43.40	24.20
Delhi	0.26	5.86	0.62	48.02	0.88	53.88	0.84	52.71
Gujarat	0.40	0.62	17.56	35.95	17.96	36.56	17.51	35.97
Haryana	0.28	0.61	8.48	10.14	8.76	10.75	8.57	10.64
Himachal Pradesh	0.07	0.07	3.88	2.46	3.95	2.52	3.85	2.46
Jammu & Kashmir	0.12	0.08	4.45	5.25	4.58	5.32	4.49	5.28
Karnataka	1.32	2.59	18.72	32.84	20.04	35.43	19.56	34.60
Kerala	0.51	0.59	15.16	16.86	15.68	17.45	15.33	17.11
Kolkata	0.03	0.44	1.38	17.28	1.42	17.73	1.40	17.51
Madhya Pradesh	0.80	0.62	25.94	35.49	26.74	36.11	26.02	35.58
Maharashtra	0.96	0.95	31.78	44.67	32.74	45.62	31.91	44.02
Mumbai	0.01	0.98	1.13	29.35	1.14	30.33	1.11	30.11
North East	0.10	0.09	4.95	4.62	5.05	4.71	4.92	4.59
Orissa	0.40	0.14	14.95	7.87	15.35	8.01	15.07	7.79
Punjab	0.24	0.45	9.00	18.19	9.25	18.64	9.10	18.29
Rajasthan	0.69	0.72	23.47	25.70	24.16	26.43	22.98	25.07
Tamil Nadu	0.75	1.25	16.25	42.40	17.00	43.65	16.50	42.59
UP (East)	2.05	0.72	40.14	30.69	42.18	31.40	40.95	30.57
UP (West)	0.71	0.60	18.75	27.03	19.46	27.63	19.13	26.98
West Bengal	0.89	0.26	22.16	19.78	23.05	20.03	22.39	19.68
Grand Total	13.76	19.43	361.90	523.10	375.66	542.53	365.71	530.12
	33.19		885		918.19		895.83	

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

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

S.No.	State(s)	Narrowband		Broadband		Total (Sep-2023)	
		Rural	Urban	Rural	Urban	Rural	Urban
1	Andhra Pradesh	0.66	0.59	16.62	16.21	17.28	16.80
2	Arunachal Pradesh	0.01	0.01	0.47	0.33	0.48	0.34
3	Assam	0.26	0.11	11.33	6.70	11.59	6.81
4	Bihar	1.47	0.39	32.99	16.13	34.46	16.52
5	Chattisgarh	0.16	0.13	7.63	8.13	7.79	8.26
6	Goa	0.04	0.05	0.72	1.47	0.77	1.52
7	Gujarat	0.39	0.60	17.27	35.46	17.66	36.06
8	Haryana	0.28	1.40	8.53	16.38	8.81	17.78
9	Himachal Pradesh	0.07	0.07	3.88	2.45	3.95	2.52
10	Jharkhand	0.29	0.21	10.09	8.26	10.38	8.47
11	Karnataka	1.32	2.59	18.72	32.84	20.04	35.43
12	Kerala	0.48	0.59	15.14	16.85	15.62	17.44
13	Madhya Pradesh	0.64	0.49	18.31	27.36	18.95	27.86
14	Maharashtra incl. Mumbai	0.93	1.88	32.19	72.55	33.11	74.43
15	Manipur	0.02	0.02	0.86	1.19	0.88	1.20
16	Meghalaya	0.02	0.01	1.24	0.72	1.26	0.73
17	Mizoram	0.01	0.01	0.48	0.67	0.49	0.68
18	Nagaland	0.01	0.01	0.92	0.65	0.94	0.67
19	Odisha	0.40	0.14	14.95	7.87	15.35	8.01
20	Punjab	0.24	0.42	8.96	16.91	9.20	17.33
21	Rajasthan	0.69	0.72	23.47	25.71	24.16	26.43
22	Sikkim	0.01	0.00	0.37	0.30	0.38	0.31
23	Tamil Nadu incl. Chennai	0.72	1.18	15.93	41.69	16.65	42.87
24	Telangana	0.48	0.50	12.11	21.21	12.58	21.71
25	Tripura	0.03	0.03	0.97	1.09	1.00	1.12
26	Uttar Pradesh (UPE+UPW)	2.67	2.56	54.55	61.22	57.22	63.78
27	Uttarakhand	0.08	0.11	4.34	5.04	4.42	5.15
28	West Bengal incl. Kolkata	0.91	0.70	22.97	36.52	23.88	37.22
Union Territories							
1	Andaman & Nicobar Islands	0.00	0.00	0.21	0.21	0.21	0.21
2	Chandigarh	0.00	0.02	0.05	1.29	0.05	1.31
3	Dadar & Nagar Haweli (incl. Daman & Diu)	0.01	0.02	0.29	0.49	0.30	0.51
4	Delhi	0.26	3.72	0.56	33.19	0.82	36.92
5	Jammu & Kashmir	0.12	0.07	4.17	5.15	4.29	5.22
6	Ladakh	0.00	0.01	0.28	0.10	0.28	0.10
7	Lakshdweep	0.03	0.00	0.02	0.00	0.05	0.00
8	Puduchery	0.03	0.07	0.32	0.75	0.35	0.81
	Total	13.76	19.43	361.90	523.11	375.66	542.53
	Grand Total	33.19		885		918.19	

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

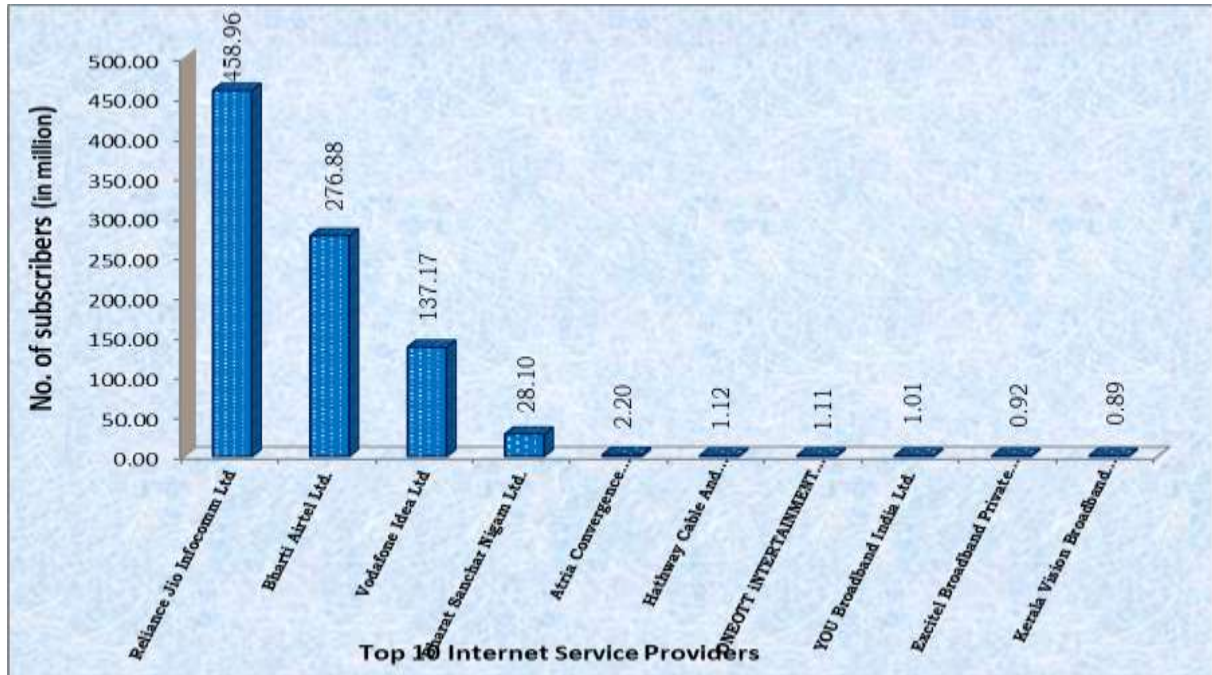
S.No	ISP	No. of Subscribers (In million)	Share (%)
1	Reliance Jio Infocomm Ltd	458.96	49.99%
2	Bharti Airtel Ltd.	276.88	30.16%
3	Vodafone Idea Ltd	137.17	14.94%
4	Bharat Sanchar Nigam Ltd.	28.10	3.06%
5	Atria Convergence Technologies Pvt. Ltd.	2.20	0.24%
6	Hathway Cable And Datacom Ltd.	1.12	0.12%
7	ONEOTT iNTERTAINMENT Ltd.	1.11	0.12%
8	YOU Broadband India Ltd.	1.01	0.11%
9	Excitel Broadband Private Ltd.	0.92	0.10%
10	Kerala Vision Broadband Ltd.	0.89	0.10%
Total of Top 10 ISPs		908.36	98.93%
Others		9.83	1.07%
Grand Total		918.19	100

1.47 Reliance Jio holds the top position with 49.99% of market share of internet subscribers followed by Bharti Airtel Ltd with 30.16% at the QE Sep-23. M/s Vodafone Idea Ltd held the third position in respect of internet subscriber base with market share of 14.94%.

1.48 Out of total 1151 internet service providers, top 10 Service Providers together hold 98.93% of total internet subscriber base at the QE Sep-23. Detailed table of number of internet subscriber base (broadband and narrowband) of all the service providers is available at **Annexure-1.5**.

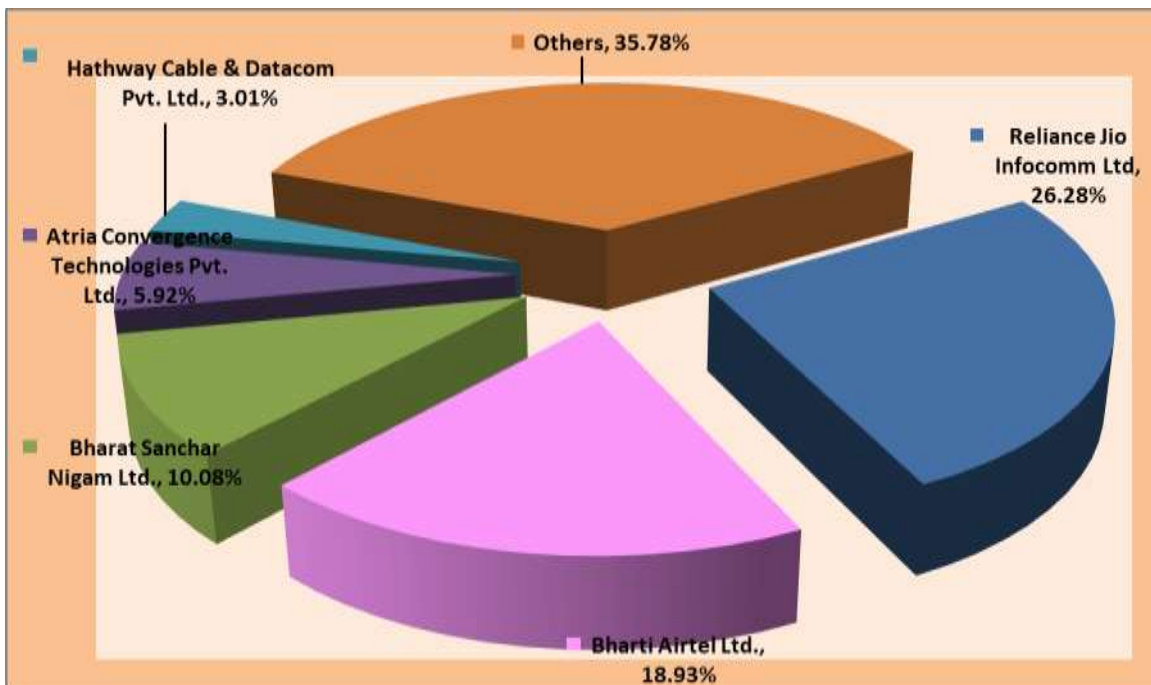
1.49 The following chart depicts the internet subscriber base of top ten Internet Service Providers (ISPs) in the QE Sep-23.

Chart 1.17 : Subscriber base of top ten ISPs



1.50 Out of total 37.11 million wired internet subscribers, Reliance Jio Infocomm Ltd holds 26.28% market share with 9.75 million subscribers, followed by Bharti with 7.03 million subscribers.

Chart 1.18: Composition of Wired Internet subscribers



1.51 In wireless internet segment, Reliance Jio holds 50.98% market share with 449.21 million subscribers followed by Bharti Airtel Ltd with 30.63% and 269.85 million wireless internet subscribers at the QE Sep-23.

Chart 1.19: - Composition of Wireless Internet subscription

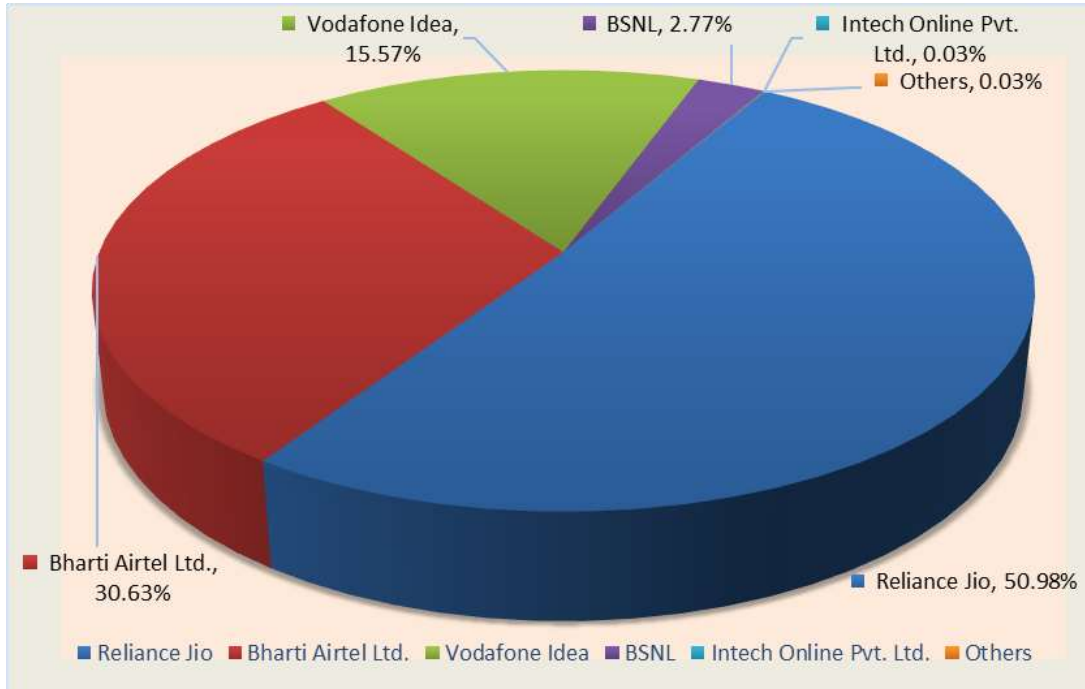


Chart 1.20 : Technology trend for Wireless Internet Access

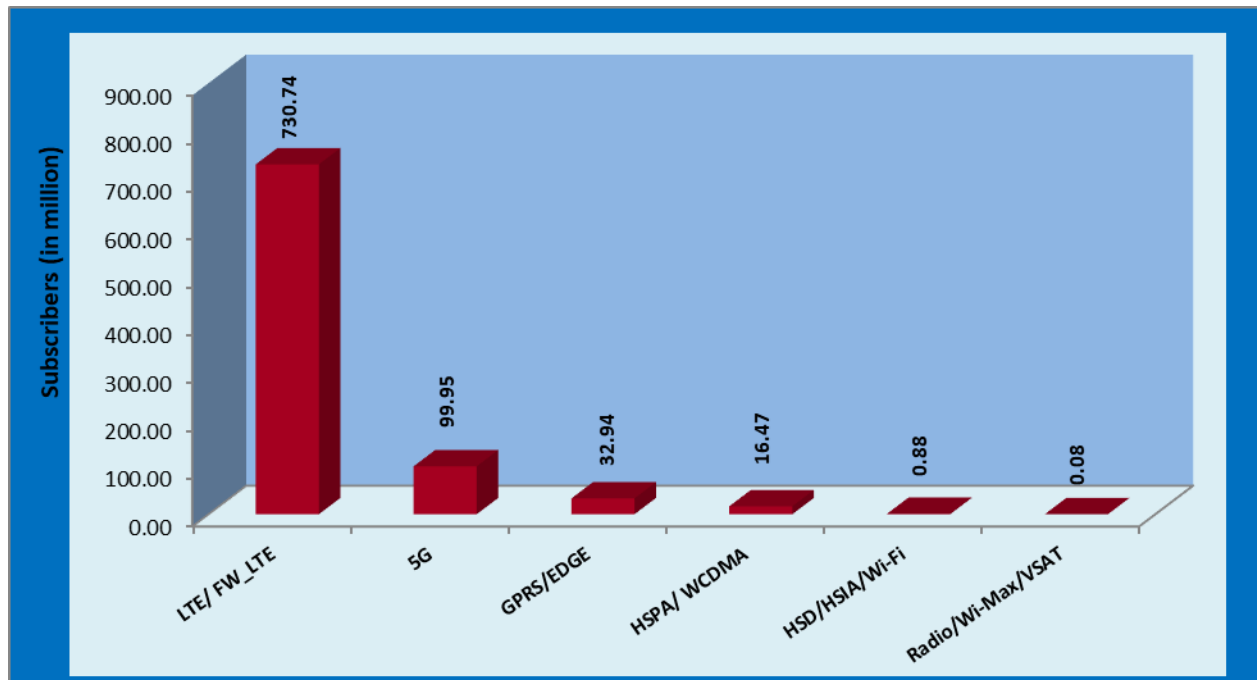
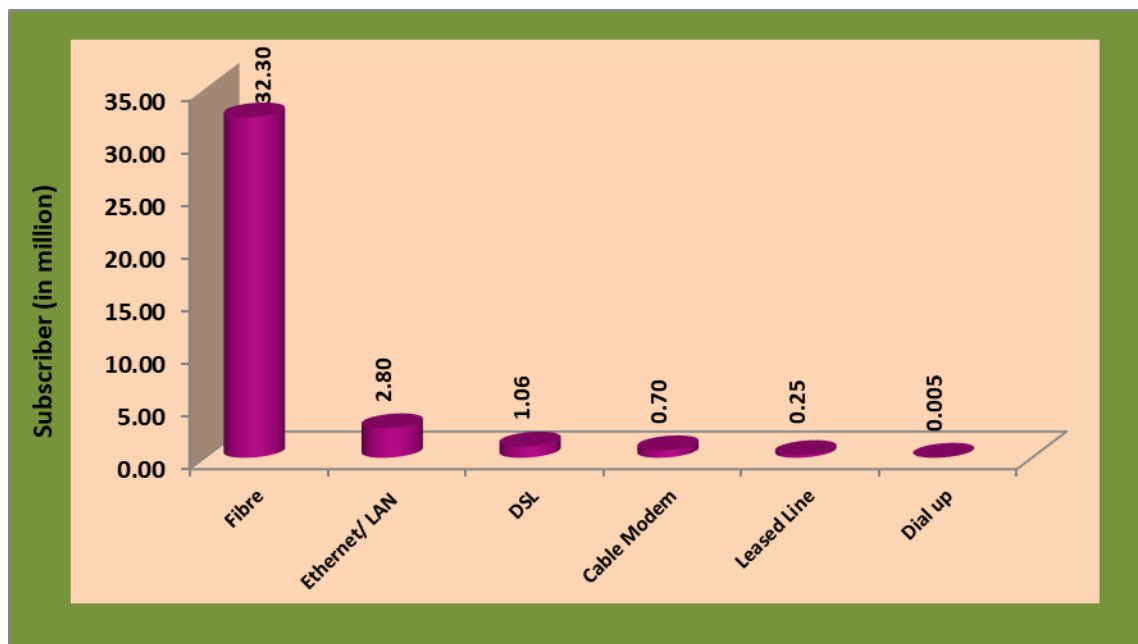


Chart 1.21: Technology trend for Wired Internet Access



1.52 Top five Telecom Service Areas in terms of internet subscriptions (wired+wireless) are:

S. No.	Telecom Service Area	Sep-23
1	Maharashtra	78.36
2	Uttar Pradesh East	73.59
3	Bihar	69.84
4	Andhra Pradesh	68.38
5	Madhya Pradesh	62.85

Table 1.32 : Service Area wise number of Internet Subscribers per 100 population at the end of Sep-23

Service Area	Internet Subscribers (in million)			No. of Internet subscribers per 100 population		
	Rural	Urban	Total	Rural	Urban	Total
Andhra Pradesh	29.86	38.51	68.38	55.84	101.16	74.69
Assam	11.59	6.81	18.40	38.25	121.29	51.23
Bihar	44.84	25.00	69.84	31.72	95.40	41.68
Delhi	0.88	53.88	54.76	-	-	253.65
Gujarat	17.96	36.56	54.53	48.61	100.51	74.36
Haryana	8.76	10.75	19.51	50.00	83.29	64.13
Himachal Pradesh	3.95	2.52	6.47	-	-	86.40
Jammu & Kashmir	4.58	5.32	9.90	47.31	124.20	70.92
Karnataka	20.04	35.43	55.47	53.33	116.70	81.65
Kerala	15.68	17.45	33.12	-	-	92.19
Madhya Pradesh	26.74	36.11	62.85	31.86	107.38	53.46
Maharashtra	32.74	45.62	78.36	51.72	120.51	85.45
Mumbai	1.14	30.33	31.47			
North East	5.05	4.71	9.76	49.07	84.90	61.63
Orissa	15.35	8.01	23.36	42.72	95.03	52.65
Punjab	9.25	18.64	27.89	51.71	131.24	86.92
Rajasthan	24.16	26.43	50.58	40.42	121.40	62.04
Tamil Nadu	17.00	43.65	60.65	47.28	102.21	77.10
UP (East)	42.18	31.40	73.59	32.89	96.15	48.50
UP (West)	19.46	27.63	47.08			
Kolkata	1.42	17.73	19.14	38.76	101.17	61.95
West Bengal	23.05	20.03	43.09			
Total	375.66	542.53	918.19	41.72	110.03	65.89

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

Notes:

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

Table 1.33 : State/UT wise number of Internet Subscribers per 100 population at the end of Sep-23

S.N.	State(s)	Total Subscribers (In million)			Tele-density (%)		
		Rural	Urban	Total	Rural	Urban	Total
1	Andhra Pradesh	17.28	16.80	34.08	51.36	85.65	63.99
2	Arunachal Pradesh	0.48	0.34	0.82	41.49	84.21	52.50
3	Assam	11.59	6.81	18.40	38.25	121.31	51.24
4	Bihar	34.46	16.52	50.99	30.75	104.87	39.89
5	Chattisgarh	7.79	8.26	16.05	35.28	99.52	52.82
6	Goa	0.77	1.52	2.28	-	-	144.51
7	Gujarat	17.66	36.06	53.72	48.12	102.16	74.61
8	Haryana	8.81	17.78	26.59	50.30	137.75	87.41
9	Himachal Pradesh	3.95	2.52	6.47	58.81	325.94	86.39
10	Jharkhand	10.38	8.47	18.85	35.42	81.06	47.41
11	Karnataka	20.04	35.43	55.47	53.33	116.70	81.65
12	Kerala	15.62	17.44	33.06	-	-	92.20
13	Madhya Pradesh	18.95	27.86	46.80	30.64	109.96	53.68
14	Maharashtra	33.11	74.43	107.54	50.83	120.41	84.71
15	Manipur	0.88	1.20	2.08	40.08	114.07	64.18
16	Meghalaya	1.26	0.73	1.99	47.11	105.43	59.16
17	Mizoram	0.49	0.68	1.17	88.18	99.34	94.33
18	Nagaland	0.94	0.67	1.60	78.21	63.49	71.34
19	Odisha	15.35	8.01	23.36	42.72	95.04	52.66
20	Punjab	9.20	17.33	26.53	51.45	133.66	86.01
21	Rajasthan	24.16	26.43	50.58	40.42	121.41	62.04
22	Sikkim	0.38	0.31	0.69	110.09	88.06	99.02
23	Tamil Nadu incl. Chennai	16.65	42.87	59.53	46.96	103.23	77.32
24	Telangana	12.58	21.71	34.29	63.46	117.62	89.57
25	Tripura	1.00	1.12	2.12	39.88	67.30	50.80
26	Uttar Pradesh (UPE+UPW)	57.22	63.78	121.00	31.81	111.57	51.04
27	Uttarakhand	4.42	5.15	9.57	59.15	121.56	81.72
28	West Bengal incl. Kolkata	23.88	37.22	61.10	38.16	101.15	61.49
Union Territories							
1	Andaman & Nicobar Islands	0.21	0.21	0.42	94.43	118.61	105.16
2	Chandigarh	0.05	1.31	1.36	-	-	109.58
3	Dadar & Nagar Haweli (incl. Daman & Diu)	0.30	0.51	0.81	125.04	47.01	61.16
4	Delhi	0.82	36.92	37.74	-	-	174.81
5	Jammu & Kashmir	4.29	5.22	9.52	45.36	124.55	69.67
6	Ladakh	0.28	0.10	0.39	136.23	108.82	127.64
7	Lakshdweep	0.05	0.00	0.05	-	-	78.74
8	Puduchery	0.35	0.81	1.16	70.29	69.47	69.71
Total		375.66	542.53	918.19	41.72	110.03	65.89

ISP Connectivity

1.53 The International Internet bandwidth owned by various service providers is reported to be 42,133 Gbps during the quarter ending Sep-23 as compared to 36,417 Gbps during the previous quarter.

Public WiFi Hotspot

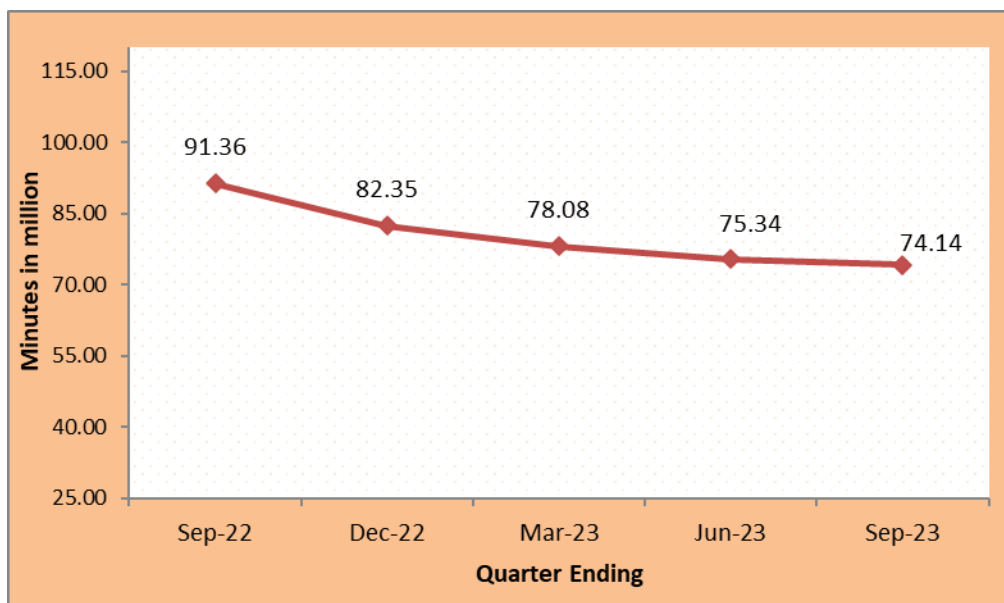
1.54 A public Wi-Fi hotspot is an area where you can access Wi-Fi enabled internet. These areas are usually created in places such as malls, coffee shops, airports, stadiums, and parks to name a few. As per the information furnished by operators, the details as on 30th September 2023 as tabulated below. State/UT wise information on Public Wi-Fi Hotspots, as on 30th September, 2023, available at **Annexure-1.6**.

S. No.	Category	Jun-23	Sep-23	Growth (%)
1.	Public Wi-Fi Hotspots	165727	165533	-0.12%
2.	Number of Access Points	386508	386349	-0.04%
3.	Number of unique Wi-Fi Users	59979634	57599299	-03.97%
4.	Aggregate Data Consumed (GB)	6950508	7323038	05.36%

Internet Telephony

1.55 As per the reports received from 14 service providers, providing Internet Telephony services, the total outgoing minutes of usage for internet telephony decreased from 75.34 million minutes at the end of Jun-23 to 74.14 million minutes at the end of Sep-23. List of Internet Telephony Service providers is available at **Annexure-1.7**.

Chart 1.22 : Trends in MOU for Internet Telephony

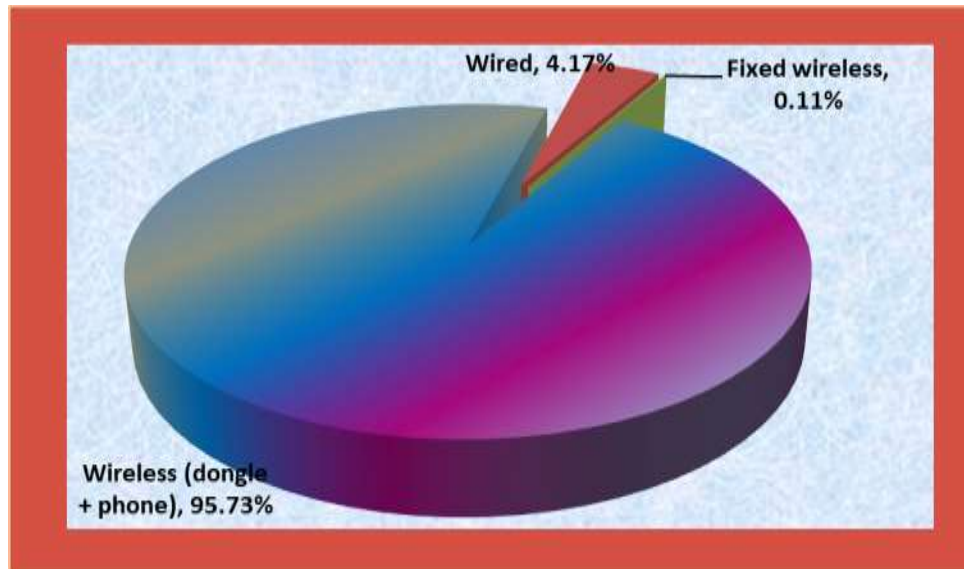


Part-II : Broadband Service (Download Speed \geq 2Mbps)

- 1.56 The total number of broadband subscribers increased from 861.47 million at the end of Jun-23 to 885 million at the end of Sep-23. Out of which number of wired broadband subscribers are 36.87 million and wireless broadband subscribers are 848.13 million.
- 1.57 Top five broadband (wired+wireless) service providers in term of subscribers are Reliance Jio 458.96 million, Bharti Airtel 257.59 million, Vodafone Idea Ltd 126.51 million, BSNL 25.12 million and Atria Convergence 2.20 million.
- 1.58 In wired broadband segment, Reliance Jio Infocomm Ltd. holds 26.45% market share with 9.75 million subscribers followed by Bharti Airtel Ltd. with 7.03 million subscribers in QE Sep-23.
- 1.59 In wireless broadband segment, Reliance Jio holds 52.96% market share with 449.21 million subscribers followed by Bharti Airtel Ltd 29.54% with 250.57 million subscribers in QE Sep-23.

1.60 Top five service areas in respect of broadband subscriptions at Q.E. Sep-23 are Maharashtra 76.45 million, U.P.-East 70.82 million, Bihar 67.48 million, Andhra Pradesh 66.16 million and Madhya Pradesh 61.43 million.

Chart 1.23 : Composition of Broadband subscription – Technology wise



1.61 Mobile Device Users (dongle+phone) constitute 95.73% of total broadband subscribers at the end of Sep-23.

Part-III : Narrowband Service (Download Speed <2 Mbps)

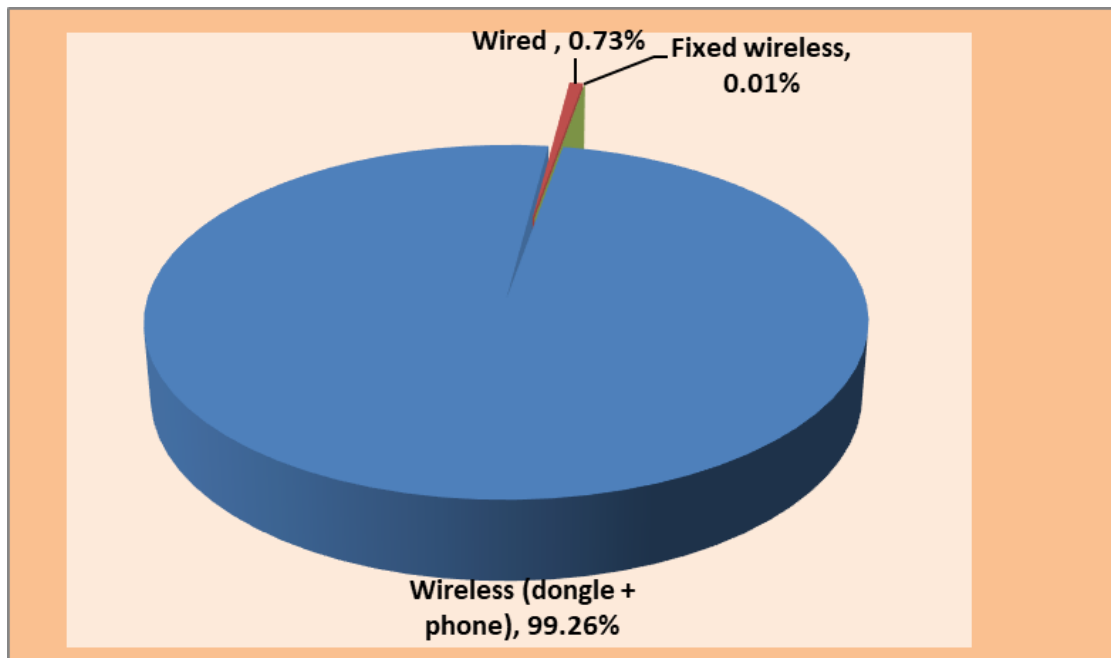
1.62 Total number of narrowband subscribers decreased from 34.36 million at the end of Jun-23 to 33.19 million at the end of Sep-23 with the quarterly rate of decline 3.41%. Out of 33.19 million narrowband subscribers, Wired Narrowband subscribers are 0.24 million and Wireless Narrowband subscribers are 32.95 million.

1.63 The top five narrowband (wired+wireless) service providers in term of subscriber base are Bharti Airtel 19.29 million, Vodafone Idea Ltd 10.66 million, BSNL 2.98 million, YOU Broadband India Ltd. 0.19 million and MTNL 0.04 million at the end of Sep-23.

1.64 In wired narrowband segment, YOU Broadband India Ltd. hold 77.23% market share with 0.19 million subscribers followed by BSNL with 0.03 million subscribers.

1.65 In wireless narrowband segment, Bharti Airtel holds 58.55% market share with 19.29 million subscribers followed by Vodafone Idea Ltd with 10.66 million subscribers.

Chart 1.24 : Composition of Narrowband subscription – Technology wise



Section E : Other Value Added Services - PMRTS & VSAT

Public Mobile Radio Trunk Services (PMRTS)

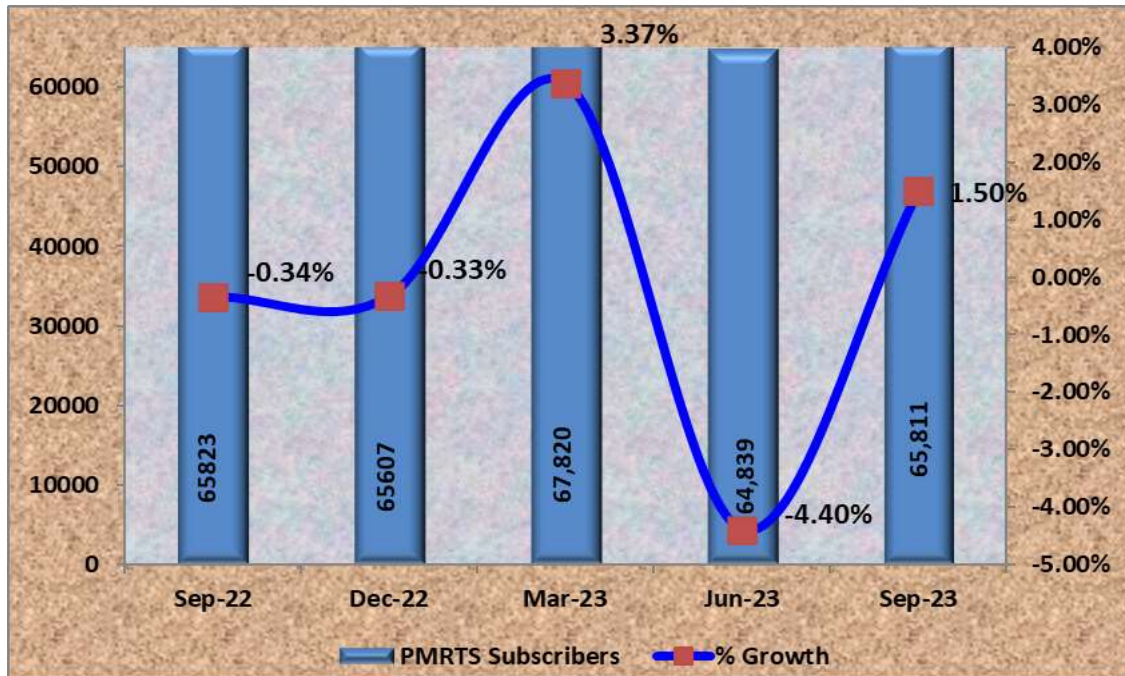
1.66 The subscriber base of PMRTS increased from 64,839 at the end of Jun-23 to 65,811 at the end of Sep-23 with quarterly rate of growth of 1.50%.

Table 1.34 : PMRTS Subscriber base - Service Provider wise

Sl. No	Name of the Service Provider	Subscriber Base as on 30.06.2023	Subscriber Base as on 30.09.2023	Net Addition	% Growth in subscribers in QE Sep-23
1	Arya Omnitalk Radio Trunking Services Pvt. Ltd.	52,848	53,259	411	0.78%
2	Procall Ltd.	4,060	4,436	376	9.26%
3	Quick Call	1,822	1,921	99	5.43%
4	Inative Networks Pvt Ltd	1,820	1,820	0	0.00%
5	Smartalk Pvt Ltd	1,417	1,478	61	4.30%
6	Bhilwara Telenet Services Pvt Ltd	883	817	-66	-7.47%
7	Wiwonet Solutions Pvt Ltd	1,107	1,146	39	3.52%
8	Airtalk Solutions & Services Pvt Ltd	882	934	52	5.90%
Total		64,839	65,811	972	1.50%

1.67 Detailed table on Service Area wise subscriber base of PMRTS as on 30th September, 2023 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 increased from 2,52,823 at the end of Jun-23 to 2,53,445 at the end of Sep-23. Net increase during the quarter has been 622 at the rate of growth of 0.25%.

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



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

Sr. No	Name of Service Providers	Subscriber base at the Quarter ending		Net Addition	%age Growth	Market Share (%) Sep-23
		Jun-23	Sep-23			
1	Hughes Communications Ltd.	1,76,472	1,77,763	1291	0.73%	70.14%
2	Nelco Ltd.	67,172	66,623	-549	-0.82%	26.29%
3	BSNL	6,455	6,332	-123	-1.91%	2.50%
4	Infotel Satcom	2,717	2,720	3	0.11%	1.07%
5	Cloudcast Digital	7	7	0	0.00%	0.00%
Total		2,52,823	2,53,445	622	0.25%	100

1.69 Hughes Communications Ltd. is the market leader having 1,77,763 subscribers with market share of 70.14% followed by Nelco Ltd. having 66,623 subscribers with market share of 26.29% at the end of Sep-23.

1.70 In term of net addition except Hughes Communications Ltd., Infotel Satcom and Cloudcast Digital all other service providers have registered decline in their VSAT subscribers during this quarter.

Chapter 2 :

Revenue and Usage

Wireless Services

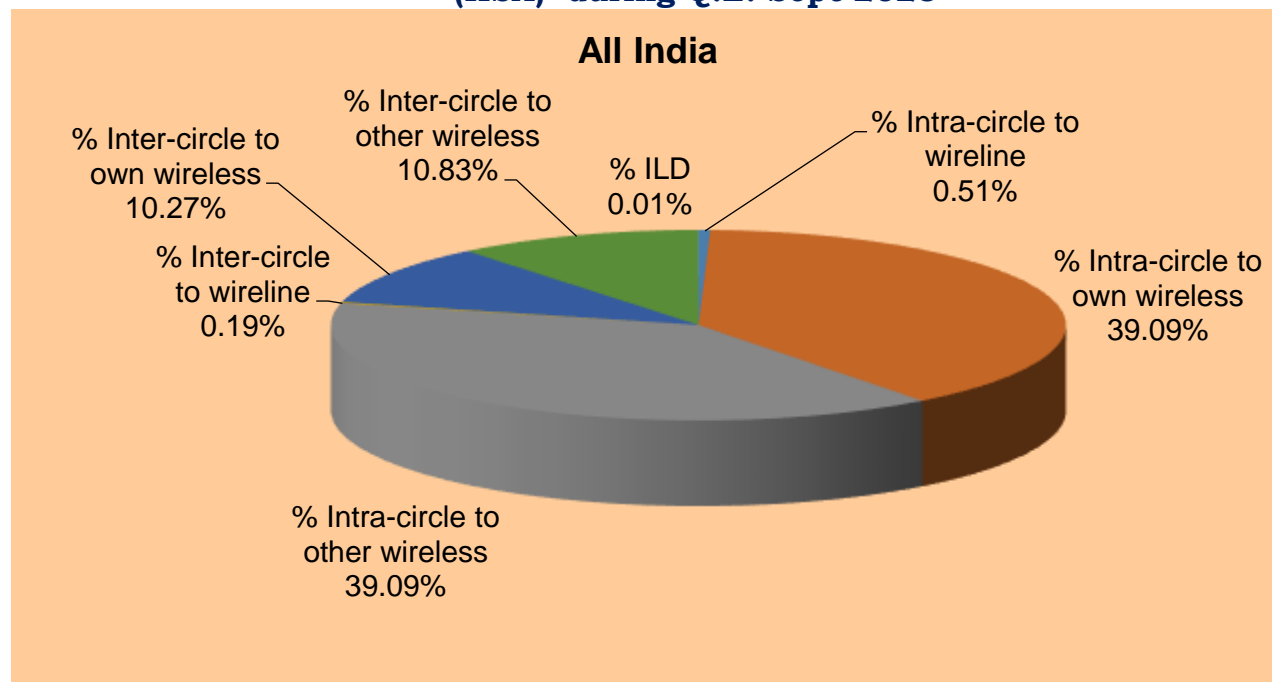
-
- For all the parameters, Metros indicate data for Delhi, Mumbai & Kolkata. Data for Chennai service area has been included in Circle A, as part of TN.
 - ARPU arrived after adjusting interconnect usage charges and roaming settlement charges.
 - The data contained in this section covers the licensees, who have been providing service during the entire period from 1st July, 2023 to 30th September, 2023 in the various service areas.

Table 2.1: Key Indicators – Wireless Services

Parameter	Sep-23	Jun-23	Sep-22	QoQ %age change	YoY %age change
Share of Prepaid (%)	91.62%	91.74%	92.43%	-0.14%	-0.88%
Incoming MOU per subscriber per month	473.75	479.63	447.31	-1.23%	5.91%
Outgoing MOU per subscriber per month	474.32	480.07	446.74	-1.20%	6.17%
No. of Outgoing SMS per subscriber per month	11.76	12.04	12.79	-2.30%	-8.01%
Average Revenue Per User (ARPU) per month (Rs.)	149.66	145.64	137.31	2.76%	8.99%

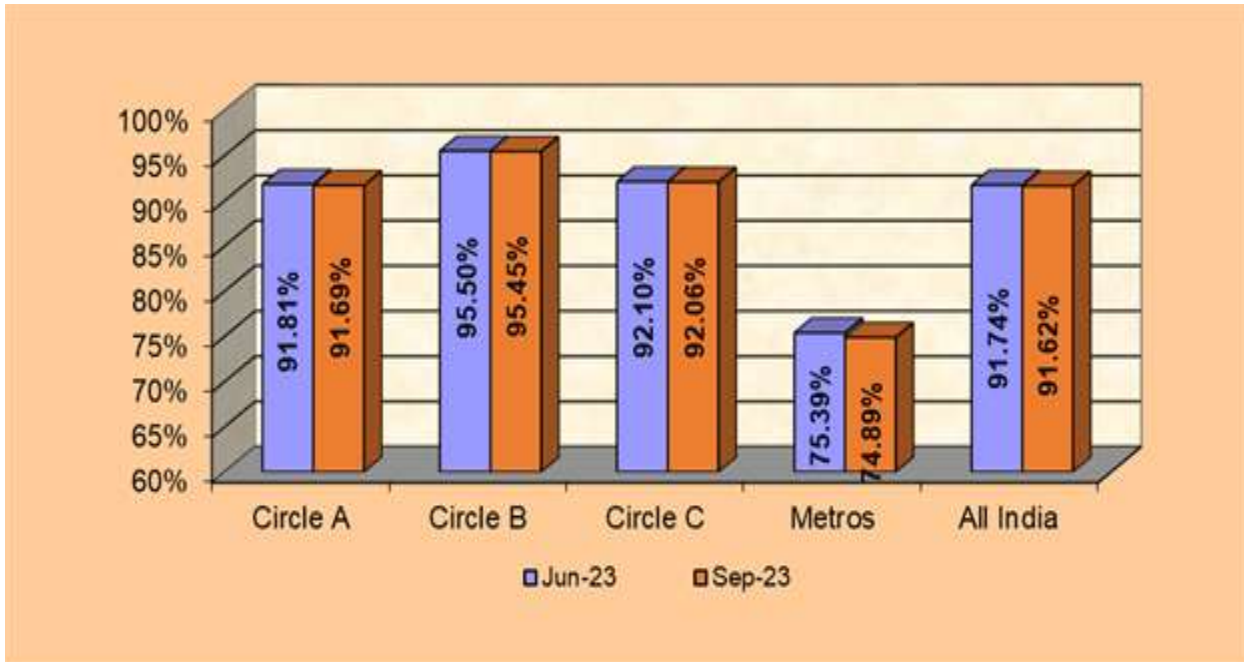
2.1 The following chart presents % break-up of outgoing minutes from Home Service Area (HSA) in the QE Sep-23.

Chart 2.1: % Break-up of Outgoing minutes from Home Service Area (HSA) during Q.E. Sept-2023



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: Pre-paid subscribers as a percent of total 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 91.74% at the end of Jun-2023 to 91.62% at the end of Sep-2023.
- 2.4 The ARPU increased by 2.76% from Rs.145.64 in Q.E. June-2023 to Rs.149.66 in Q.E. Sep-2023. The ARPU for private service providers increased by 2.34% from Rs.154.16 in Q.E. June- 2023 to Rs.157.61 in Q.E. Sep- 2023 and for PSUs (BSNL/MTNL) increased by 7.70% from Rs. 60.61 in Q.E. June-2023 to Rs.65.27 in Q.E. Sep-2023.
- 2.5 The ARPU per month for the pre-paid segment is Rs. 148 and for the post-paid segment is Rs.167.93 for Q.E. Sep-2023.
- 2.6 The following table presents the ARPU per month for various categories of circles and platforms for payment viz. post-paid and pre-paid.

Table 2.2: Monthly ARPU – Wireless Services in QE Sep-23

Circle Category	ARPU per month (in Rs.)		
	Post-paid	Pre-paid	Blended
Circle A	202.09	166.09	169.06
Circle B	155.77	138.20	138.99
Circle C	153.65	141.47	142.43
Metros	145.98	137.30	139.46
All India	167.93	148.00	149.66
All private SPs	170.94	156.35	157.61
BSNL/MTNL	109.48	63.08	65.27

2.7 The following table presents the composition of ARPU per month for QE Sep-23.

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 per subscriber per month
1	Usage from Home Service Area		
1.1.	Rental Revenue	0.83	0.46
1.2.	Revenue from calls	15.35	8.56
1.3.	Revenue from SMS	0.21	0.12
1.4.	Revenue from data usage	133.73	74.56
1.5.	Revenue from Other VAS	1.22	0.68
1.6.	Other revenue	3.91	2.18
2	B. Usage outside Home Service Area		
2.1	Revenue from outroamers	1.33	0.74
3	C. Total revenue from home subscribers (A+B)	156.59	
4	D. Revenue from inroamers and interconnect charges received	22.77	12.69
5	E. Total Gross Revenue (C+D)	179.36	100.00
6	F. Net inter-operable settlement charges payable	-29.69	
7	Net Revenue (ARPU) (E+F)	149.66	

* includes Interconnect Usages Charges (IUC) and Roaming Settlement Charges (RSC).

#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.29.69) accounted for 18.96% of the total revenue from subscribers in the Q.E. Sep-2023.
- 2.9 On an all-India average, the overall MOU per subscriber per month decreased by 1.21% from 960 in Q.E. June-2023 to 948 in Q.E. Sep-2023.
- 2.10 The following table presents the total MOU (usage from, and outside, the home service area) per subscriber per month for various categories of circles and various platforms for payment viz. post-paid and pre-paid during Q.E. Sep-23.

Table 2.4: MOU per subscriber per month - QE Sep-23

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	263	246	509	442	435	877	428	419	847
Circle B	270	270	541	487	491	978	477	481	958
Circle C	347	342	688	610	629	1239	589	606	1195
Metro	178	165	343	520	492	1011	435	410	845
All India	252	242	495	494	495	989	474	474	948

- 2.11 The overall ratio of incoming MOUs and outgoing MOUs for the Q.E. Sep-2023 is 50:50.
- 2.12 Average number of Outgoing SMS per subscriber per month is 12 in Q.E. Sep-2023. 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. Sep-2023.

Table 2.5: No. of Outgoing SMS per subscriber per month during QE Jun-23

Circle category	Outgoing SMS per subscriber per month		
	Post-paid	Pre-paid	Blended
Circle A	13	12	12
Circle B	7	11	11
Circle C	12	16	16
Metro	5	10	9
All India	9	12	12

Chart 2.3 : Minutes of Usage by Out-roamers as a % of Total Minutes of Usage during Q.E. Sep-2023

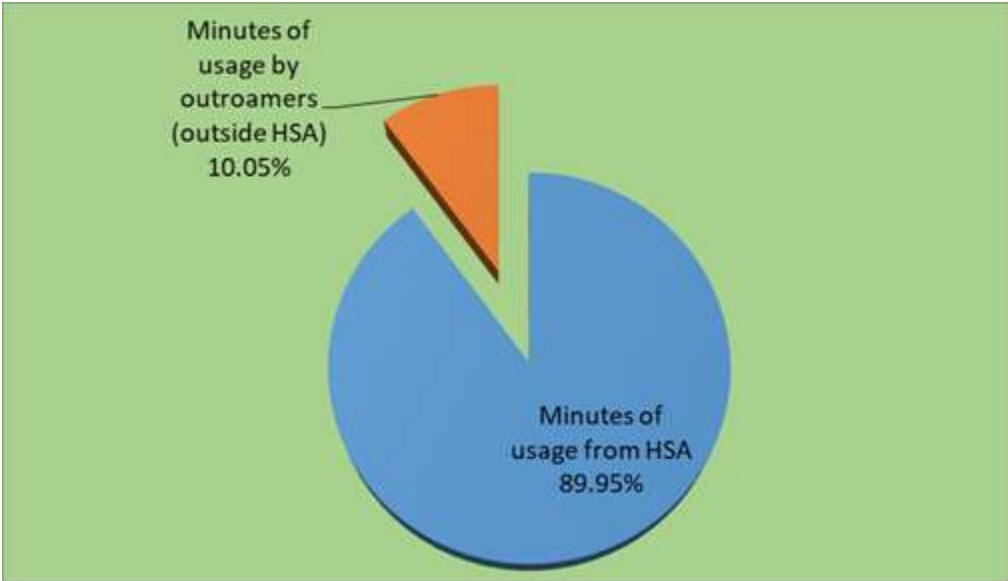
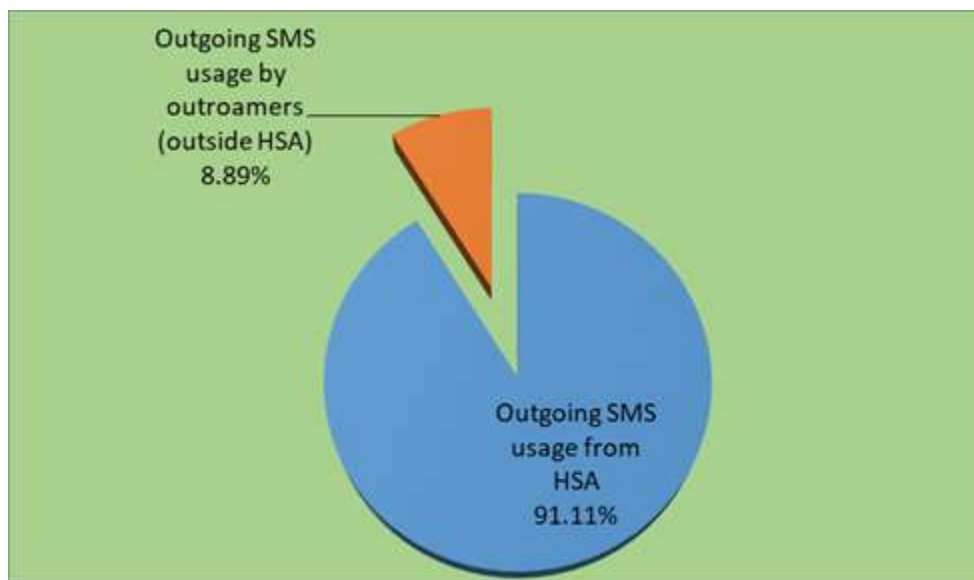


Chart 2.4: Outgoing SMS Usage by Out-roamers as a % of Total No. of Outgoing SMS Usage during Q.E. Sep-2023



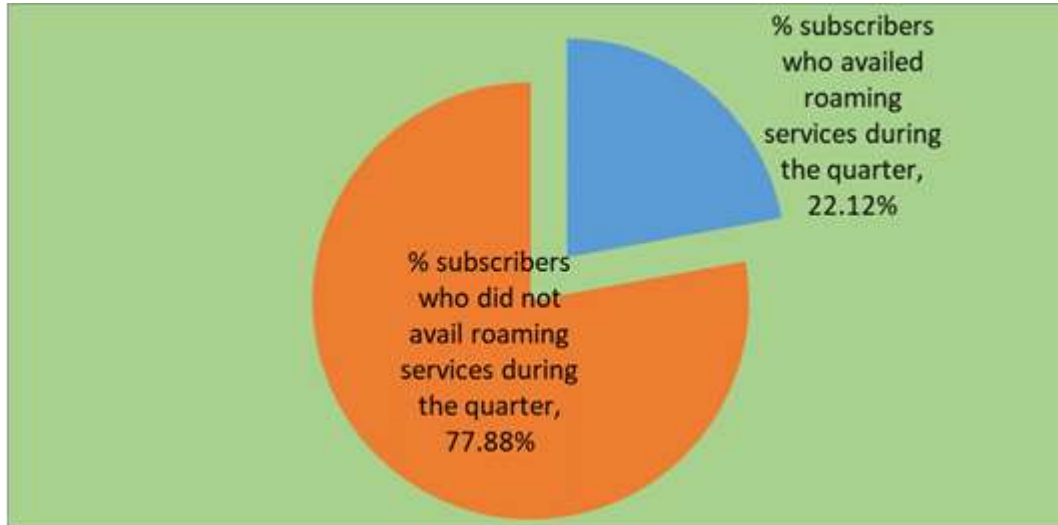
2.13 The following table presents the percentage break-up of outgoing minutes of usage from home service area between various categories of termination networks in the Q.E. Sep-23.

Table 2.6: % Break-up of Outgoing minutes from Home Service Area (HSA) during the Q.E. Sep-2023

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	0.47%	41.69%	43.76%	0.17%	6.74%	7.14%	0.01%
Circle B	0.52%	37.92%	40.10%	0.17%	10.22%	11.07%	0.01%
Circle C	0.41%	41.83%	32.82%	0.19%	12.63%	12.12%	0.00%
Metros	0.83%	28.57%	31.41%	0.38%	18.27%	20.53%	0.03%
All India	0.51%	39.09%	39.09%	0.19%	10.27%	10.83%	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. Sep-23.

Chart 2.5: % Share of outroamers as a percentage of total subscribers during Q.E. Sep-2023



2.15 The usage pattern of outroamers i.e. usage from outside the home service area shows that incoming minutes accounts for 48.52% of the total minutes of usage by outroamers in Q.E. Sept- 2023 as against 48.42% in the Q.E. June-2023. 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)

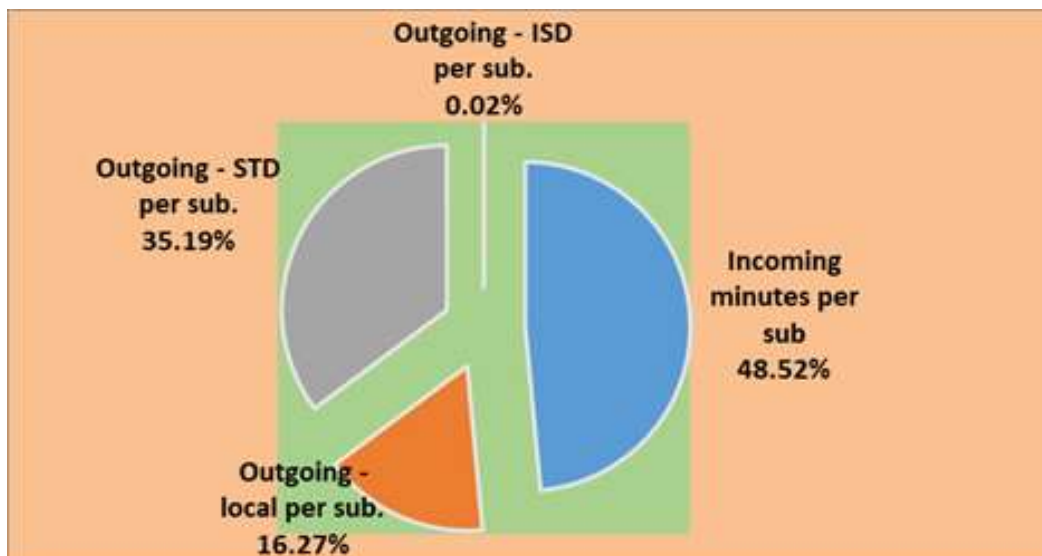


Table 2.7: Trends of Key Parameters - Wireless Services

Parameter	Sep-22	Dec-22	Mar-23	Jun-23	Sep-23
1. ARPU (Rs. Per month)	137	141	142	146	150
2. Average revenue Realization per subscriber per GB wireless data (in Rs.)	9.94	10.10	9.92	9.44	9.22
3. MOU per subscriber per month	894	919	946	960	948
4. Outgoing MOU per subscriber per month					
4.1 Local (Intra-circle)	331	339	350	357	350
4.2 NLD (inter-circle)	115	120	123	123	124
4.3 ILD	0.05	0.05	0.05	0.05	0.04
5. Average no. of Outgoing SMS per subscriber per month	13	12	12	12	12

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

Chapter 3 :

Financial Data of Telecom Service Sector

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

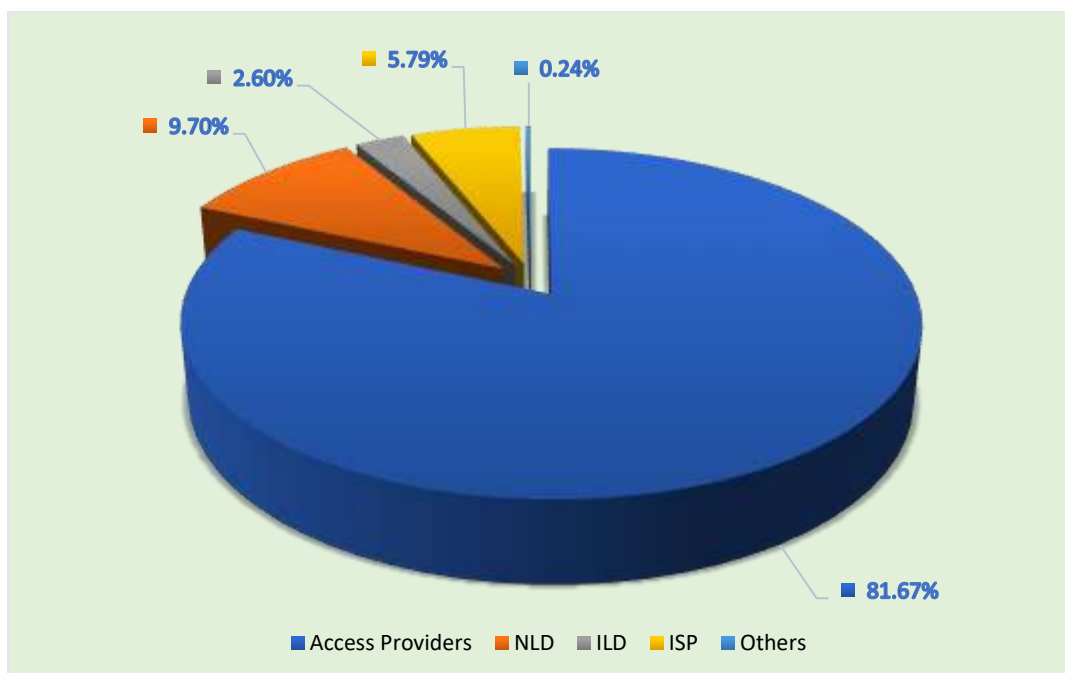
Particulars	QE Sep-22 (Rs. in Crore)	QE Jun-23 (Rs. in Crore)	QE Sep-23 (Rs. in Crore)	Q-O-Q % Change	Y-O-Y % Change
Gross Revenue (GR)	83,767	80,899	82,741	2.28%	-1.22
Applicable Gross Revenue (ApGR)	74,713	78,349	79,747	1.78%	6.74
Adjusted Gross Revenue (AGR)	61,981	65,624	66,583	1.46%	7.43
Pass Through Charges (PTC)	13,445	13,220	13,425	1.55%	-0.15
License Fee (LF)	4,921	5,246	5,326	1.53%	8.23
Spectrum Usage Charges (SUC)	1,403	818	836	2.23%	-40.38

- 3.1 Gross Revenue (GR) increased by 2.28%, Applicable Gross Revenue (ApGR) increased by 1.78% and Adjusted Gross Revenue (AGR) increased by 1.46% during QE Sep-23. On YoY basis GR decreased by 1.22%, ApGR increased by 6.74% and AGR increased by 7.43% in QE Sep-23.
- 3.2 Pass through charges increased by 1.55% in QE Sep-23 however on YoY basis it decreased by 0.15%.
- 3.3 Pass-through charges as a percentage of Gross Revenue are 16.34% in QE Sep-23 as against 17.25% in the previous quarter.

**Table 3.2: Financial performance of service segments in Q.E. Sep, 23
(in Rs. Crore)**

Service	GR	ApGR	AGR	LF	SUC	PTC
Access Providers	66,255.98	64,292.82	54,376.00	4,350.67	831.49	10,073.24
NLD	7,424.24	6,685.16	6,461.74	517.32	-	239.88
ILD	3,712.10	3,665.38	1,728.24	138.33	-	1,937.32
ISP	5,167.97	4,988.30	3,854.29	307.97	-	1,161.58
Others	180.44	115.64	163.12	11.57	4.81	12.76
Total	82,740.72	797,47.30	665,83.39	5,325.86	836.30	13,424.78

Chart 3.1: Composition of Adjusted Gross Revenue



3.4 Access services contributed 81.67% of the total Adjusted Gross Revenue of telecom services. In Access services, Gross Revenue (GR), Applicable Gross Revenue (ApGR), Adjusted Gross Revenue (AGR), License Fee (LF), Spectrum Usage (SUC)⁹ and Pass Through Charges (PTC) increased by 3.68%, 2.52%, 2.91%, 3.06%, 2.20%, and 0.66% respectively in QE Sep-23.

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

Service Provider	AGR (Rs. in Crore)			Q-o-Q Growth (%)	Y-o-Y Growth (%)
	Q.E. Sep 2022	Q.E. Jun 2023	Q.E. Sep 2023		
	Reliance Jio	22192.19	23457.11		
Bharti Airtel	17893.47	19256.00	19840.84	3.04	10.88
Vodafone Idea	7478.73	7267.76	7507.65	3.30	0.39
BSNL	1929.24	2049.95	1966.44	-4.07	1.93
Tata	571.83	598.91	617.17	3.05	7.93
MTNL	201.67	142.79	168.69	18.13	-16.35

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)

Reliance	53.40	47.19	47.84	1.37	-10.41
V-Con Mobile & Infra	-4.38	7.00	3.50	-50.01	179.95
GPX Services	0.75	2.78	3.42	23.20	358.83
Quadrant	8.82	8.37	2.66	-68.26	-69.88
Tata Play Broadband	1.34	0.30	0.51	68.36	-61.86
Shyam Spectra	0.04	0.24	0.20	-16.34	396.85
Fusionnet	0.00	-0.01	-0.01	-616.75	---
Ishan Netsol	0.00	-0.01	-0.01	-41.18	---
Total	50,327.10	52,838.40	54,376.00		

3.5 Public Sector Undertakings' share in the Access AGR of telecom services is 3.93% in the QE Sep-23.

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

LSA Category	Q.E. Sep, 2022		Q.E. June, 2023		Q.E. Sep, 2023	
	AGR (Rs. in crore)	% share of AGR	AGR (Rs.in crore)	% share of AGR	AGR (Rs. In crore)	% share of AGR
Metro	5,411.77	10.75	5,463.91	10.34	5,854.69	10.77
A	19,159.14	38.07	19,480.40	36.87	20,084.18	36.94
B	18,428.17	36.62	19,837.17	37.54	20,257.43	37.25
C	7,328.02	14.56	8,056.92	15.25	8,179.71	15.04
Total	50,327.10		52,838.40		54,376.00	

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.RP-5/13/(8)/2022/FEA-II, dated 12th December, 2022.
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 prescribed parameters

S. No.	Parameters	Bench mark	No of PMRs where Service Providers are not meeting the benchmarks			
			QE June, 2023		QE September, 2023	
			Out of 88 PMRs		Out of 88 PMRs	
			Nos.	%age	Nos.	%age
I. Network Related Parameters						
1	Network Availability					
(a)	BS Accumulated down-time (not available for service) (%age)	≤ 2%	0	0.00%	0	0.00%
(b)	Worst affected BS due to down-time (%age)	≤ 2%	1	1.14%	0	0.00%
2 Connection Establishment (Accessibility)						
(a)	Call Set-up Success Rate and Session Establishment Success Rate for Circuit Switched Voice or VoLTE as applicable (within licensee's own network)	≥ 95%	0	0.00%	0	0.00%
(b)	SDCCH/ Paging Channel Congestion/ RRC Congestion (% age)	≤ 1%	0	0.00%	0	0.00%
(c)	TCH, RAB and E-RAB congestion (%age)	≤ 2%	0	0.00%	0	0.00%
3 Connection Maintenance (Retain ability)						
(a)	Network QoS DCR Spatial Distribution Measure [Network_ QSD (90,90)]	≤ 2%	0	0.00%	0	0.00%
(b)	Network QoS DCR Temporal Distribution Measure [Network_ QTD (97,90)]	≤ 3%	0	0.00%	0	0.00%
(c)	Connections with good voice quality, Circuit	≥ 95%	0	0.00%	0	0.00%

	Switched Voice Quality and VoLTE quality					
(d)	Down Link (DL) Packet Drop Rate or DL-PDR	≤ 2%	0	0.00%	0	0.00%
(e)	Up Link (UL) Packet Drop Rate or UL-PDR	≤ 2%	0	0.00%	0	0.00%
4	Point of Interconnection (POI) Congestion (No. of POIs not meeting the benchmark)	≤ 0.5%	0	0.00%	0	0.00%
II. Customer Service Quality Parameters						
5	Metering and billing credibility - post paid	≤ 0.1%	0	0.00%	0	0.00%
6	Metering and billing credibility - prepaid	≤ 0.1%	0	0.00%	0	0.00%
7 (a)	Resolution of billing/charging/validity complaints	98% within 4 weeks	0	0.00%	0	0.00%
	Resolution of billing/charging/validity complaints	100% within 6 weeks	0	0.00%	0	0.00%
(b)	Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution of complaints	within 1 week of resolution of complaint	0	0.00%	0	0.00%
8 Response time to the customer for assistance						
(a)	Accessibility of call centre/ customer care	≥ 95%	2	2.27%	0	0.00%
(b)	Percentage of calls answered by the operators (voice to voice) within ninety seconds	≥ 95%	16	18.18%	4	4.55%
9	Termination / Closure of service	≤ 7 days	0	0.00%	0	0.00%
10	Time taken for refund of deposits after closures	100% within 60 days	0	0.00%	0	0.00%

4.1 Comparison of Performance with the last quarter: -

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

- i. Worst affected BSs due to down-time (%age) < 2%
- ii. Accessibility of call centre/ customer care $\geq 95\%$
- iii. Percentage of calls answered by the operators (voice to voice) within ninety seconds $\geq 95\%$

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

Parameter	Benchmark	Service Provider	Service Area	Performance in Parameters not met
Percentage of calls answered by the operators (voice to voice) within ninety seconds	$\geq 95\%$	AIRTEL	Jammu & Kashmir	91.88%
		BSNL	Andhra Pradesh	94.24%
			Karnataka	93.71%
			Tamilnadu including Chennai	94.54%

4.2 **List of Parameters which are fully complied by all the Service providers: -**

- a. BS Accumulated down-time (not available for service) (%age) $\leq 2\%$
- b. Worst affected BS due to down-time(%age) $\leq 2\%$
- c. Call Set-up Success Rate and Session Establishment Success Rate for Circuit Switched Voice or VoLTE as applicable (within licensee's own network) $\geq 95\%$
- d. SDCCH/ Paging Channel Congestion/ RRC Congestion (% age) $\leq 1\%$
- e. TCH, RAB and E-RAB congestion (%age) $\leq 2\%$
- f. Network QoS DCR Spatial Distribution Measure [Network_ QSD (90,90)] $\leq 2\%$
- g. Network QoS DCR Temporal Distribution Measure [Network_ QTD (97,90)] $\leq 3\%$

- h. Connections with good voice quality, Circuit Switched Voice Quality and VoLTE quality $\geq 95\%$
- i. Down Link (DL) Packet Drop Rate or DL-PDR $\leq 2\%$
- j. Up Link (UL) Packet Drop Rate or UL-PDR $\leq 2\%$
- k. Point of Interconnection (POI) Congestion (No. of POIs not meeting the benchmark) $\leq 0.5\%$
- l. Metering and billing credibility - postpaid $\leq 0.1\%$
- m. Metering and billing credibility – prepaid $\leq 0.1\%$
- n. Resolution of billing/charging/validity complaints - 98% within 4 weeks
- o. Resolution of billing/charging/validity complaints - 100% within 6 weeks
- p. Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution - within 1 week of resolution of complaint
- q. Accessibility of call centre/ customer care $\geq 95\%$
- r. Termination / Closure of service ≤ 7 days
- s. Time taken for refund of deposits after closures (100% within 60 days)

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

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

Table 4.3: QoS Summary - Wireline Service

Summary of Performance of service providers against identified parameters

S.No	Parameters	Benchmarks	No of PMRs where Service Providers are not meeting the benchmarks			
			QE June, 2023		QE September, 2023	
			Out of 107 PMRs		Out of 109 PMRs	
			Nos.	%age	Nos.	%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%	1	0.93%	2	1.83%
	% Fault repaired within 5 days (for urban areas)	100%	2	1.87%	2	1.83%
(iii)	% Fault repaired by next working day (for rural and hilly areas)	≥ 75%	1	0.93%	1	0.92%
	% Fault repaired within 7 days (for rural and hilly areas)	100%	1	0.93%	1	0.92%
(iv)	'Mean time to Repair' (MTTR)	≤ 10 Hrs	1	0.93%	1	0.92%
(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	100% within 1 week of resolution of complaint	0	0.00%	0	0.00%
(ix)	Accessibility of call centre/ customer care	≥ 95%	6	5.61%	2	1.83%
	%age of calls answered by the operators (voice to voice) within ninety seconds	≥ 95%	27	25.23%	4	3.67%
(x)	Termination / closure of service	≤ 7 days	1	0.93%	1	0.92%
(xi)	Time taken for refund of deposits after closures	100% within 60 days	3	2.80%	1	0.92%

NOTE:

- Most of the SPs have not reported for the parameter “Metering and billing credibility – pre paid” due to not providing pre-paid service in Basic (Wire line) service.
- Number of PMRs increased from 107 to 109 in QE September 2023 as Bharti Airtel has started its services in Odisha LSA w.e.f. QE September 2023 & APSFL has started the service in Andhra Pradesh LSA w.e.f. QE September 2023.

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

- i. Accessibility of call centre/customer care ≥ 95%
- ii. % age of calls answered by the operators (voice to voice) within ninety seconds ≥ 95%
- iii. Time taken for refund of deposits after closures 100% within 60 days

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

- i. % Fault repaired by next working day (for urban areas) ≥ 85%

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

Parameter	Benchmark	Service Provider	Service Area	Performance in Parameters not met
% of faults repaired by next working day- Urban	For urban areas by next working day $\geq 85\%$	MTNL	Delhi	73.89%
			Mumbai	38.30%
% of faults repaired within 5 days - Urban	For urban areas 100%	MTNL	Delhi	96.78%
			Mumbai	55.90%
% of faults repaired by next working day- Rural and hilly areas	$\geq 75\%$	MTNL	Mumbai	0.00%
% of faults repaired within 7 days- Rural and hilly areas	100%	MTNL	Mumbai	0.00%
Mean Time to Repair (MTTR)	≤ 10 hrs	MTNL	Mumbai	197.44
Accessibility of call centre/ customer care	$\geq 95\%$	BSNL	Kerala	83.54%
			Tamilnadu including Chennai	90.14%
Percentage of calls answered by the operators (voice to voice) within ninety seconds	$\geq 95\%$	BSNL	Andhra Pradesh	91.75%
			Karnataka	92.16%
			Kerala	75.44%
			Tamilnadu including Chennai	84.04%
Termination / Closure of service	≤ 7 days	MTNL	Mumbai	99.59%
Time taken for Refund of deposits after closures- within 60 days	100% within 60 days	MTNL	Mumbai	55.39%

4.6 **List of Parameters which are fully complied by all the Service providers_**

- a. Fault incidences No. of faults per 100 subs/month ≤ 7
- b. Point of Interconnection'(POI) Congestion (No. of PoIs not meeting benchmark) $\leq 0.5\%$
- c. Metering and billing credibility- post-paid $\leq 0.1\%$
- d. Metering and billing credibility- pre-paid $\leq 0.1\%$
- e. Resolution of billing/charging/Credit & validity complaints 98% within 4 weeks
- f. Resolution of billing/charging Credit & validity complaints 100% within 6 weeks
- g. Period of applying credit/waiver/adjustment to customer's 100% within 1 week of resolution of complaint

4.7 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)

- 4.8 There are 1064 Service Providers providing broadband (wireline) service at the end of September, 2023. Total number of broadband (wireline) subscriber base of all the broadband service providers is 3,68,65,928 in quarter ending September, 2023 as compared to 3,51,03,406 in quarter ending June, 2023.
- 4.9 Out of 1064 broadband service providers providing broadband (wireline) service, only 95 service providers are having subscriber base more than 10,000 subscribers and share 97.28% 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 3,41,34,107 at the end of June, 2023 (for 92 service providers) to 3,58,63,401 at the end of September, 2023 (for 95 service providers).
- 4.10 This report covers performance of 94 broadband service providers' vis-à-vis the QoS benchmarks prescribed by TRAI. M/s. DDC Broadband Pvt. Ltd., has not submitted its Performance Monitoring Report (PMR) for quarter ending September, 2023. 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	No. of PMRs where service providers are not meeting the benchmarks			
			QE June, 2023		QE September, 2023	
			Out of 128 PMRs		Out of 131 PMRs	
			Nos.	%age	Nos.	%age
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	0.78%	1	0.76%
2	Faults Repair/Restoration Time					
2.2	% of faults repaired by next working day (>90%)	>90%	1	0.78%	1	0.76%
2.3	% of faults repaired within 3 working day	=>99%	1	0.78%	1	0.76%
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	5	3.91%	1	0.76%
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	0.78%	0	0.00%
5	Bandwidth utilisation/throughput					
5.2	No. of Intra network links having Bandwidth utilisation >90% during peak hours (TCBH)	0	0	0.00%	0	0.00%

5.4	No. of Upstream links for International connectivity having bandwidth utilisation >90% during peak hours (TCBH)	0	0	0.00%	0	0.00%
5.7	% International bandwidth utilization during peak hours (TCBH) (Enclose MRTG) <90%	<90%	0	0.00%	0	0.00%
5.8	Broadband Connection Speed available (download) from ISP node to user	>80%	0	0.00%	0	0.00%
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)	<800ms	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	Performance in QE Sep.23
1	Service Provisioning / Activation Time	%age of connections provided within 15 days of registration of demand	100%	Mahanagar Telephone Nigam Ltd.	All India	96.36
2	Faults Repair/ Restoration Time	% of faults repaired by next working day (>90%)	>90%	Mahanagar Telephone Nigam Ltd.	All India	57.29
		% of faults repaired within 3 working day	=>99%	Mahanagar Telephone Nigam Ltd.	All India	70.14
3	Billing Performance	%age of cases to whom refund of deposits is made within 60 days of closures	100% within 60 days	Mahanagar Telephone Nigam Ltd.	All India	76.53

4.11 List of parameters which are fully complied by all service providers: -

S. No.	Parameter	Benchmark
1	Billing Performance - %age of bills disputed	<2%
2	Billing Performance - %age of complaints resolved within 4 weeks	100% within 4 weeks
3	Response Time to the Customer for assistance - %age of calls answered by operator (Voice to voice) within 60 sec	>60%
4	Response Time to the Customer for assistance - %age of calls answered by operator (Voice to voice) within 90 sec	>80%
5	Bandwidth utilisation/ throughput - No. of Intra network links having Bandwidth utilisation >90% during peak hours (TCBH)	0
6	Bandwidth utilisation/ throughput - No. of Upstream links for International connectivity having bandwidth utilisation >90% during peak hours (TCBH)	0

7	Bandwidth utilisation/ throughput - % International bandwidth utilization during peak hours (TCBH)	<90%
8	Bandwidth utilisation/ throughput - Broadband Connection Speed available (download) from ISP node to user	>80%
9	Service Availability/ Uptime (for all users) in %age	>98%
10	Packet loss (for wired broadband access) in %age	<1%
11	Network latency (for wired broadband access) - User reference point at POP/ISP Gateway node to IGSP/NIXI	<120 ms
12	Network latency (for wired broadband access) - User reference point at ISP Gateway node to International nearest NAP port abroad (terrestrial)	<350 ms
13	Network latency (for wired broadband access) - User reference point at ISP Gateway node to International nearest NAP port abroad (satellite)	<800 ms

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

Performance of Cable TV, DTH and Radio Broadcasting Services

Table 5.1: Key Parameters - Broadcasting & Cable TV Services

S.No	Parameter	Mar-23	Jun-23
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	903*	915*
2	Number of Pay TV Channels as reported by broadcasters	360	361
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 (as on 31.10.2023)	1737#	995#
4	Number of FM Radio Stations (excluding All India Radio)	388	388
5	Number of pay DTH Operators	4	4
6	Number of existing cities with operational FM Radio channels (excluding All India Radio)	113	113
7	Number of Operational Community Radio Stations	446	465
8	Number of total active Subscribers with pay DTH operators (in million)	65.50	64.18

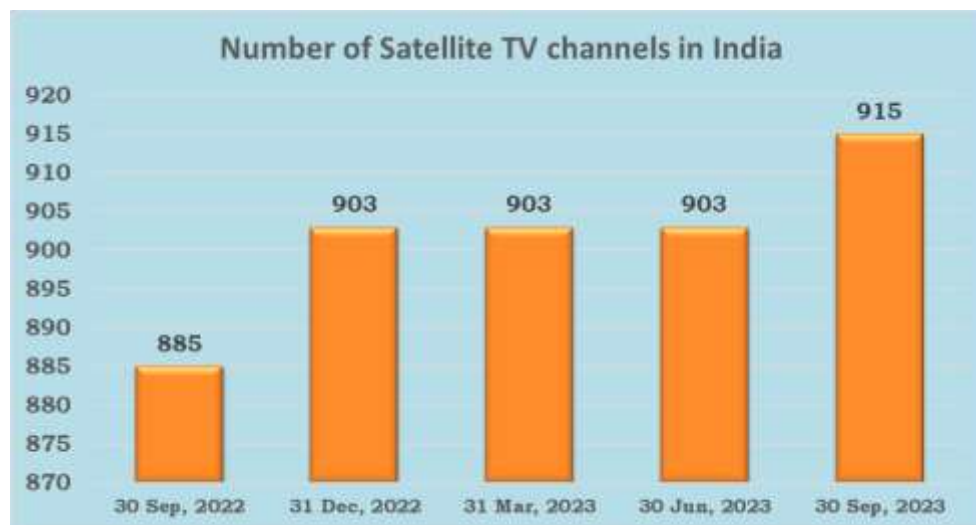
* <https://new.broadcastseva.gov.in/digigov-portal-web-app/webHP?requestType=ApplicationRH&actionVal=userInformationSystem&screenId=2>

Source- https://mib.gov.in/all_broadcasting_documents

A. Satellite TV Channels

5.1 A total of approximately 915 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	11	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	837	TV channels uplinked from India and also downlinked only in India
Total	915	

Out of 915 permitted satellite TV channels, 904 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 904 permitted satellite TV channels which are available for downlinking in India, there are 361 satellite pay TV channels as on 30th September 2023. Out of 361 pay channels, 257 are SD satellite pay TV channels and 104 are HD satellite pay TV channels. A list of pay TV channels offered by broadcasters for subscribers as reported to TRAI is attached as **Annexure-5.1**. Apart from these pay channels reported to TRAI, all other channels, available

for downlinking in India, are considered as Free to Air (FTA) channels. **Chart-5.2** depicts total number of Pay satellite TV channels and FTA satellite TV channels available for downlinking in India during last one year. **Chart-5.3** depicts total number of SD satellite Pay TV channels and HD satellite Pay TV channels during last one year.

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

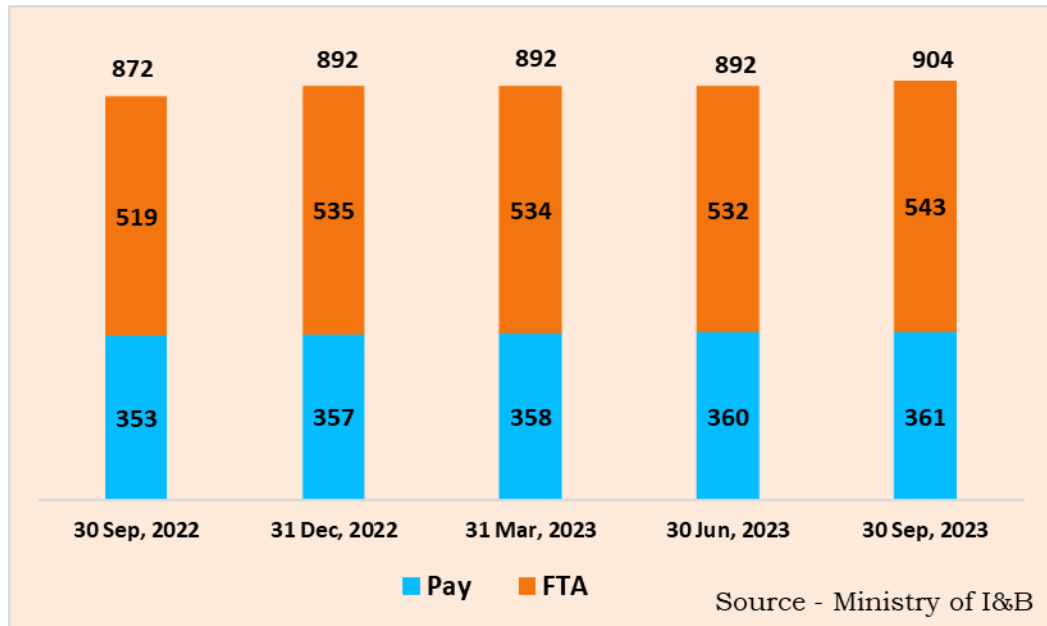


Chart 5.3 : Numbers of SD satellite pay TV channels and HD satellite pay TV channels

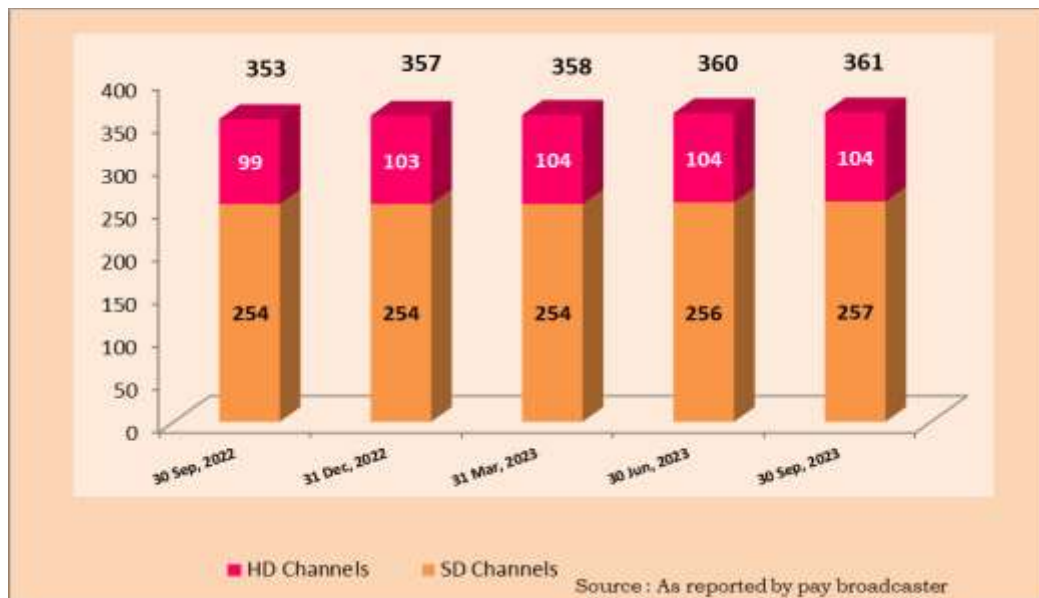


Table 5.3: Price-Range wise Analysis of Pay Channels as reported by the broadcaster to TRAI

Price range	Number of SD channels	Number of HD channels
Less than 1	58	---
1 to 5	98	12
5 to 12	47	26
12 to 15	08	05
15 to 19	07	08
19	37	52
>19	02	01
Total	257	104

Table 5.4: Genre wise Analysis of Pay Channels

S.No	Genre	Number of channels
1	General Entertainment	115
2	Movies	71
3	News and Current Affairs	62
4	Sports	32
5	Kids	28
6	Infotainment	26
7	Music	22
8	Devotional	03
9	Miscellaneous	02
Total		361

Table 5.5: Broadcaster wise number of pay channels as reported to TRAI

S.No	Name of Broadcaster	Number of channel(s)
1	Star India Private Limited	64
2	Zee Entertainment Enterprises Limited	49
3	Viacom 18 Media Private Limited	37
4	SUN TV Network Limited	31
5	Culver Max Entertainment Private Limited	22
6	TV 18 Broadcast Limited	19
7	Eenadu Television Private Limited	18
8	Zee Media Corporation Limited	16
9	Discovery Communications India	14
10	Bennett, Coleman & Company Limited	12
11	Disney Broadcasting (India) Limited	7
12	NGC Network (India) Pvt Limited	6
13	IN 10 Media Private Limited	5
14	Kalaighar TV Pvt Limited	5
15	Mavis Satcom Limited	4
16	Raj Television Network Limited	4
17	Tarang Broadcasting Company Limited	4
18	TV Today Network Limited	4
19	Warner Media India Private Limited	4
20	Celebrities Management Pvt Limited	3
21	New Delhi Television Limited	3
22	Sarthak Music Private Limited	3
23	Silverstar Communications Limited	3
24	AETN 18 Media Pvt Limited	2
25	Bangla Entertainment Private Limited	2
26	BBC Global News India Private Limited	2
27	Living Entertainment Enterprises Private Ltd	1
28	MSM World Wide Factual Media Private Limited	2
29	Media World Wide Limited	2
30	CSL Info Media Private Limited	1
31	Direct New Private Limited	1
32	Fame Media Private Limited	1
33	Greycells18 Media Limited	1
34	IBN Lokmat News Private Ltd	1
35	Information TV Private Limited	1
36	Lex Sportel Vision Private Limited	1
37	Lifestyle and Media Broadcasting Limited	1
38	Odisha Television Limited	1
39	Sidharth Broadcasting Private Limited	1
40	Suryansh Broadcasting Private Limited	1
41	Zee Akaash News Private Limited	1
42	Zoom Entertainment Network Limited	1
	Total	361

B. Cable TV Sector

5.3 As on 30th September 2023, there are 995 MSOs registered with MIB. As per the data reported by MSOs and HITS operator, as on September 2023, there are 11 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 5.6: -**

Table 5.6: Subscriber base of major MSOs/HITS operators at the end of September, 2023 (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	9,011,425
2	Siti Networks Ltd.	5,775,169
3	Hathway Digital Ltd.	5,385,246
4	Thamigzha Cable TV Communication Ltd. (TCCL)	3,821,799
5	Den Networks Ltd.	3,816,171
6	Kerala Communicators Cable Ltd (KCCL)	3,314,769
7	NXT Digital Ltd. (HITS)	2,263,930
8	KAL Cables	2,031,754
9	VK Digital	1,677,702
10	Tamil Nadu Arasu Cable TV (TACTV)	1,602,780
11	Fastway Transmission Pvt. Ltd	1,564,564
12	NXT Digital Ltd. (CATV)	1,122,783

C. Direct-to-Home (DTH) Sector

- 5.4 Since its introduction in the year 2003, Indian DTH services have displayed a phenomenal growth. During the quarter ending 30th September 2023, there are 4 pay DTH service providers. A list of DTH Operators is attached as **Annexure 5.3**.
- 5.5 Pay DTH has attained total active subscriber base of around 64.18 million. This is in addition to the subscribers of the DD Free Dish (free DTH services of Doordarshan). The total active subscriber base has decreased from 65.50 million in June 2023 to 64.18 million in September 2023.
- 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 September 2023 is depicted in the following charts: -

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

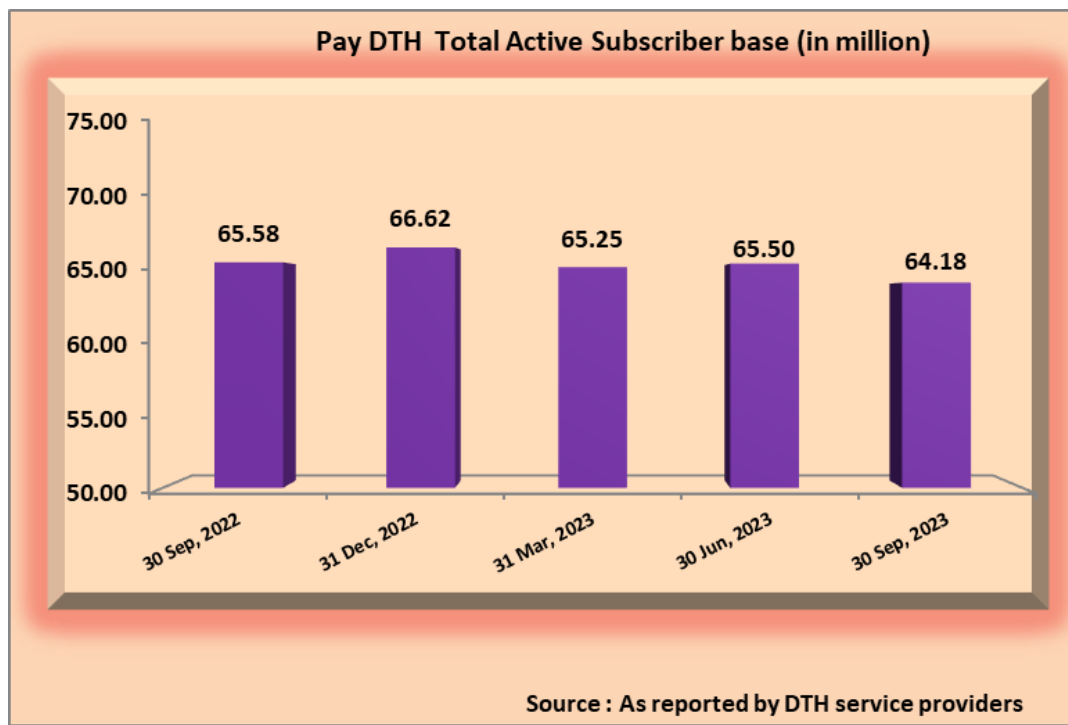
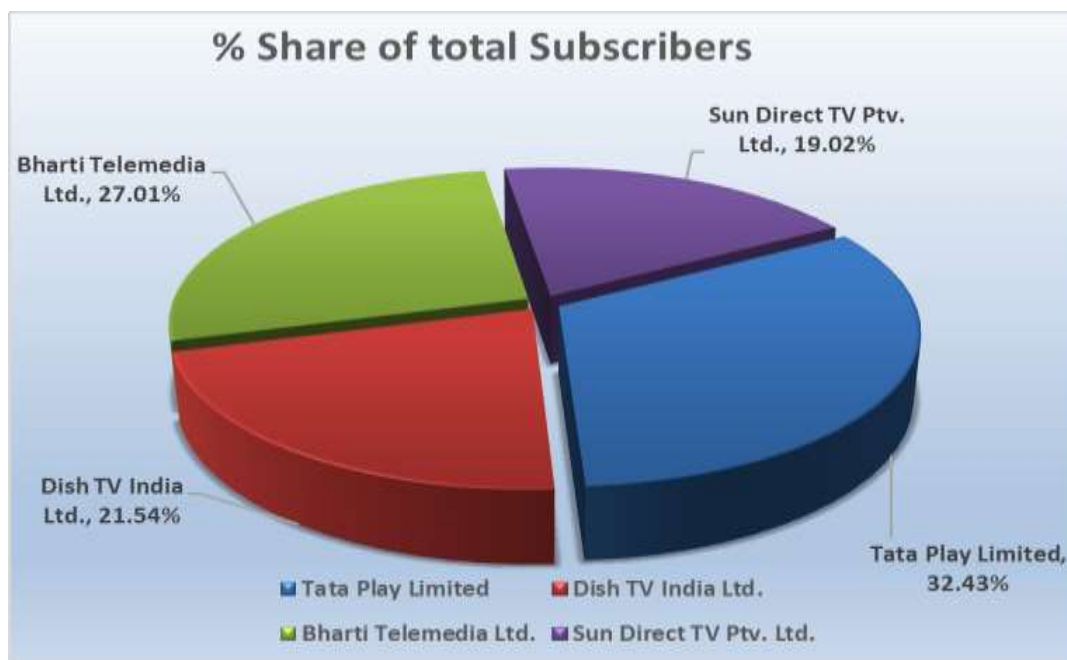


Chart 5.5 : Market share of DTH Operators



Source : As reported by DTH service providers

D. IPTV

As per information provided by the Ministry of Information and Broadcasting (MIB), as on 30.09.2023, there are 26 IPTV Operators. A list of such IPTV Operators is attached as **Annexure 5.4**. At present, as per the reported subscriber figures, the details in respect of IPTV operators who are operational is as under: -

S.No.	Name of IPTV Operator	Total Active Subscriber Base as on Sept. 2023
1.	Andhra Pradesh State Fibernet Ltd (APSFL)	5,88,138
2.	M/s City Online Media Pvt. Ltd	20,624
3.	M/s Wi-bro Solutions Pvt. Ltd	1,191
4.	M/s V.K. Digital Network Pvt. Ltd	45

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 September 2023, there are 388 operational private FM

Radio channels in 113 cities operated by 36 private FM Radio operators. As compared to the previous quarter, there is no change in the number of operational private FM Radio channels, cities and FM Radio operators. A list of 113 existing cities with operational private FM radio channels in India, as on 30th September, 2023 is attached 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

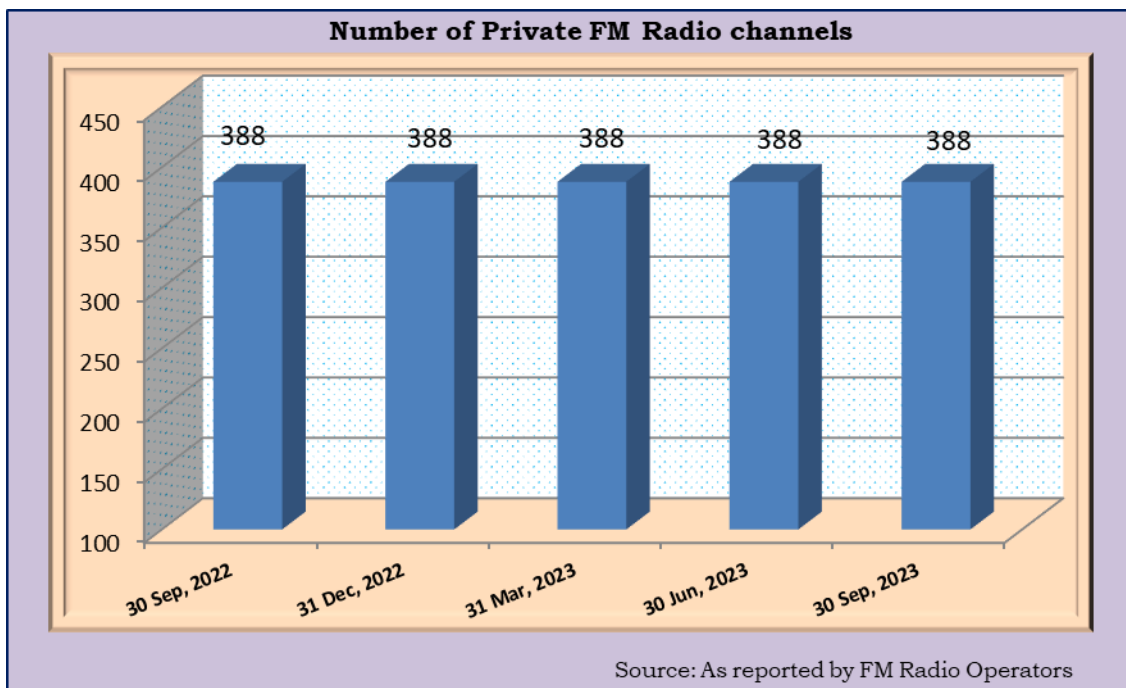
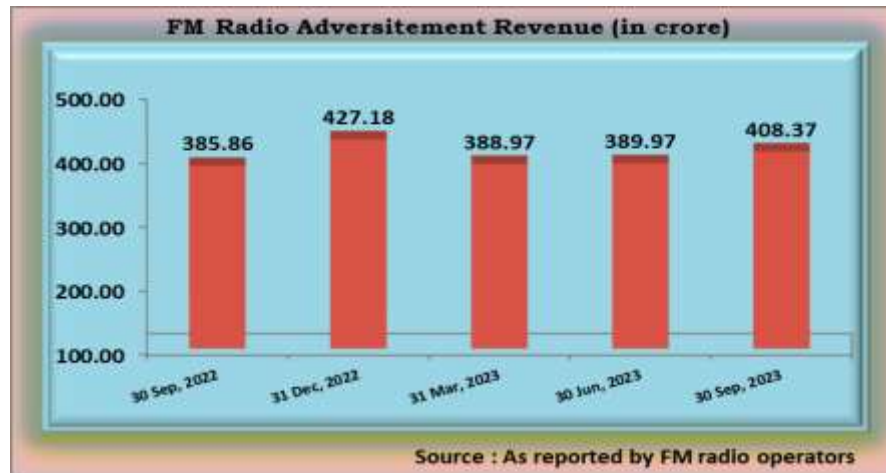


Table 5.7: FM Radio operators in terms of number of FM Radio channels they possess.

S.No.	Name of FM Operator	Number of Channels
1	Entertainment Network (India) Limited	73
2	Reliance Broadcast Network Limited	58
3	Music Broadcast Limited (MBL)	39
4	South Asia FM Limited	35
5	D B Corp Limited (Radio Division)	30
6	KAL Radio Limited	24
7	Rajasthan Patrika Pvt. Ltd	18
8	HT Media Ltd	14
9	Sambhaav Media Limited	13
10	Malar Publications Ltd.	10
11	Skyline Radio Network	10
12	Next Radio Limited	7
13	The Mathrubhumi Printing & Publishing Co.	6
14	The Malayala Manorama Co. Ltd.	5
15	Purvy Broadcasting Pvt Ltd	5
16	Ushodaya Enterprises Pvt Ltd	4
17	Digital Radio (Delhi) Broadcasting Ltd	3
18	SUN TV Network Ltd	3
19	TV Today Network Limited	3
20	Abhijit Realtors & Infra P Ltd	3
21	Digital Radio (Mumbai) Broadcasting Ltd	2
22	India Radio Ventures Pvt. Ltd.	2
23	Eastern Media Ltd	2
24	Pudhari Publicattions Pvt. Ltd.	2
25	Neutral Publishing House Ltd	2
26	PCM Cement Concrete Pvt Ltd	2
27	JCL Infra Limited	4
28	Digital Radio (Kolkata) Broadcasting Ltd	1
29	Clear Media (India) Pvt Limited	1
30	Ananda Offset Pvt Ltd.	1
31	HT Music & Entertainment Company Ltd	1
32	Udaya FM Pvt. Ltd.	1
33	Sarthak Films Private Limited	1
34	ITM Software & Entertainment Pvt Ltd	1
35	Gwalior Farms Private Limited	1
36	Renderlive Films and Entertainment Pvt. Ltd	1
	Total Number of Channels	388

5.8 The advertisement revenue reported by FM Radio operators during the quarter ending 30th September 2023 in respect of 388 private FM Radio channels is Rs 408.37 crore as against Rs 389.97 crore in respect of 388 private FM Radio channels for the previous quarter.

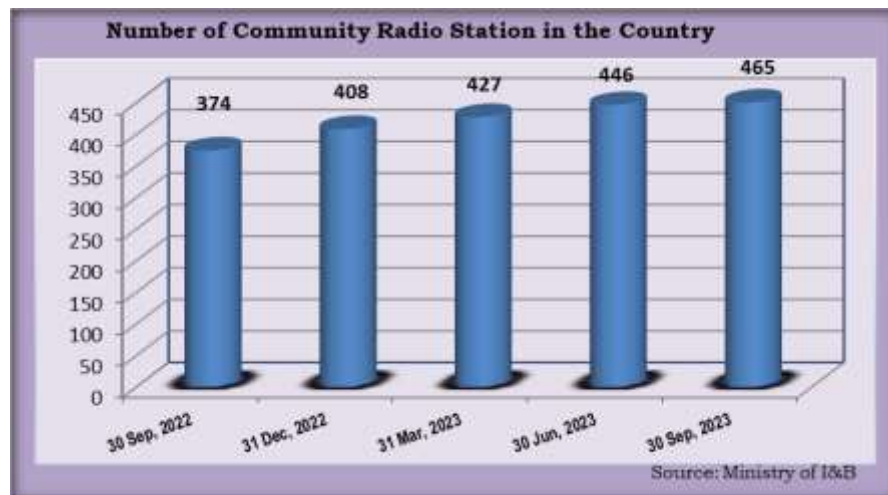
Chart 5.7: Details of Advertisement Revenue submitted by the private FM Radio broadcasters



F. Community Radio

5.9 As on 30th September 2023, 465 Community Radio stations are operational. The quarterly growth in the number of operational community radio stations during last one year is depicted in the following **chart 5.8**.

Chart 5.8: Number of operational Community Radio Stations



Annexures

Annexure 1.1: Wireless Subscriber Base

Service Area	Vodafone Idea		Bharti Airtel (including Tata Teleservices)		Reliance Com.		BSNL		MTNL		Reliance Jio		Total		Net Additions
	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	
Andhra Pradesh	11363635	11007032	32770911	33157725			7557631	6631388			30650087	31377637	82,342,264	82,173,782	-168482
Assam	1912053	1803134	11150514	11475925			3193282	3192009			8941644	9041371	25,197,493	25,512,439	314946
Bihar	8058206	7840736	40594914	40649017			5862287	5397055			37941349	39157555	92,456,756	93,044,363	587607
Delhi	16347957	16583934	17231813	17633421	23	23			1688927	1688013	19142853	19487598	54,411,573	55,392,989	981416
Gujarat	21823572	21512053	11410888	11575256	47	43	5048755	4416610			27872065	28524098	66,155,327	66,028,060	-127267
Haryana	7235095	6979837	6563357	6710871	11	11	4465526	4212788			8219158	8435967	26,483,147	26,339,474	-143673
Himachal Pradesh	433472	412534	3439537	3564011	92	92	1610092	1603113			3310136	3334263	8,793,329	8,914,013	120684
Jammu & Kashmir	322864	308207	5917428	5933139	0	0	831303	826820			5148627	5195889	12,220,222	12,264,055	43833
Karnataka	6676091	6586621	31577632	31719386	589	574	5414427	4410678			22181050	22939501	65,849,789	65,656,760	-193029
Kerala	14203668	14028432	8092740	8353158	113	113	9729281	9652694			10264886	10540914	42,290,688	42,575,311	284623
Madhya Pradesh	16809837	16249668	15482919	15736984	0	0	5172636	4983465			39662102	40652254	77,127,494	77,622,371	494877
Maharashtra	23683451	23360391	21213764	21314679	0	0	6205219	6143342			40901415	42548318	92,003,849	93,366,730	1362881
Mumbai	11132998	11147788	9931749	9999773	925	877			303065	263470	12424761	12464221	33,793,498	33,876,129	82631
North East	921680	866774	5991059	6114788	0	0	1,281,663	1,263,328			4103288	4123251	12,297,690	12,368,141	70451
Orissa	1597870	1536700	11385490	11428063	29	29	6,210,662	5,757,087			14216993	14485859	33,411,044	33,207,738	-203306
Punjab	6900358	6719723	12267328	12398186	106	106	4,577,542	4,138,828			11508531	11750685	35,253,865	35,007,528	-246337
Rajasthan	9857476	11261139	22717238	22971737	155	155	5,843,850	5,677,644			25338835	25617046	63,757,554	65,527,721	1770167
Tamil Nadu	16299143	16220684	28043824	28716722	262	238	7,883,597	7,744,795			24519217	24982881	76,746,043	77,665,320	919277
UP(E)	18336134	17911800	36841650	36872197	0	0	8,735,044	8,096,415			36253665	37462411	100,166,493	100,342,823	176330
UP(W)	16118017	15896482	18316748	18300702	8	8	5,309,788	4,957,432			22610183	23159191	62,354,744	62,313,815	-40929
Kolkata	5638643	5566595	5651788	5687333	0	0	2188790	2189565			10461233	10586050	23,940,454	24,029,543	89089
West Bengal	13983917	13734392	17132063	17467498	147	115	2,499,081	2,376,102			22909991	23343486	56,525,199	56,921,593	396394
Total	229,656,137	227,534,656	373,725,354	377,780,571	2,507	2,384	99,620,456	93,671,158	1,991,992	1,951,483	438,582,069	449,210,446	1,143,578,515	1,150,150,698	6572183

Annexure 1.2: Wireline Subscriber Base

Sl. No	Service Area	Bharti Airtel		Reliance Com.		Quadrant		Tata Tele.		MTNL		BSNL		Vodafone Idea		Reliance Jio		VM IPL		APSF L		Total		Net Additions
		Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	Jun-23	Sep-23	
1	Andhra Pradesh	499185	548140	19312	19330			232553	238476			615614	538627	63005	60365	1162586	1224712			656424	650291	3,248,679	3,279,941	31,262
2	Assam	23428	26497	0	0			0	0			104603	102314	2610	2610	165170	173159					295,811	304,580	8,769
3	Bihar	85310	95801	9	9			10186	10196			165824	163988	2380	2380	474712	497866					738,421	770,240	31,819
4	Delhi	1987573	2050747	20504	19856			210145	211662	1015628	1007942			81325	78660	900015	938468					4,215,190	4,307,335	92,145
5	Gujarat	225566	237380	2725	2872			157715	159596			317980	288865	56946	55916	591915	625954					1,352,847	1,370,583	17,736
6	Haryana	122217	140842	0	0			45490	44917			207686	200238	420	420	117120	124748					492,933	511,165	18,232
7	Himachal Pradesh	5631	7041	0	0			1586	1483			89628	89392	90	90	54155	56343					151,090	154,349	3,259
8	Jammu & Kashmir	90911	99374	0	0			0	0			83621	79011	30	30	194433	199610					368,995	378,025	9,030
9	Karnataka	1111447	1147739	18556	17386			394316	416301			539849	530227	149318	133068	862439	888416					3,075,925	3,133,137	57,212
10	Kerala	93941	98179	3447	3293			19942	19773			1001964	994280	7130	6880	262324	279712					1,388,748	1,402,117	13,369
11	Madhya Pradesh	463302	490042	5	5			47732	53612			260750	238493	34575	39540	628688	675638					1,435,052	1,497,330	62,278
12	Maharashtra	408987	445156	8915	8292			232175	225824			581214	557923	22662	20971	249222	258812					1,503,175	1,516,978	13,803
13	Mumbai	564244	578479	39876	38549			615095	606007	1,261,464	1,236,917			169822	166891	812519	851016					3,463,020	3,477,859	14,839
14	North East	0	0	0	0			0	0			73005	70254	510	510	151119	163285					224,634	234,049	9,415
15	Orissa	0	26615	4	4			10814	10749			169306	166603	3930	3660	233040	245346					417,094	452,977	35,883
16	Punjab	240097	253432	1925	1893	357961	374924	16270	16673			368887	369842	1980	1830	301849	324507	13199	17549			1,302,168	1,360,650	58,482
17	Rajasthan	211128	232891	3522	3492			24842	24284			276340	269507	15075	12425	361562	375989					892,469	918,588	26,119
18	Tamil Nadu	843269	875356	17093	16146			145907	141276			949252	931048	34348	33733	748828	784268					2,738,697	2,781,827	43,130
19	U.P.(E)	185372	198853	26	37			11482	10970			121436	119422	16480	16600	468467	495555					803,263	841,437	38,174
20	U.P.(W)	121532	130892	8	8			6942	6836			177423	177738	3496	3601	516175	550996					825,576	870,071	44,495
21	Kolkata	194637	200076	4664	4617			63061	64199			193048	182566	14575	15055	464761	483330					934,746	949,843	15,097
22	West Bengal	33456	44199	70	69			2735	2784			178845	179355	120	150	230767	238715					445,993	465,272	19,279
	Total	7,511,233	7,927,731	140,661	135,858	357,961	374,924	2,248,988	2,265,618	2,277,092	2,244,859	6,476,275	6,249,693	680,827	655,385	9,951,866	10,456,445	13,199	17,549	656,424	650,291	30,314,526	30,978,353	663,827

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

Sl. No.	Name of Telecom Service Area	Service Provider	Number of PCOs as on 30.6.2023	Number of PCOs as on 30.09.2023	Net PCO increase/ decrease as on 30.9.2023	Percentage Growth/ Decline as on 30.6.2023
1	Andhra Pradesh	Bharat Sanchar Nigam Limited	3770	2876	-894	-23.71%
2	Assam	Bharat Sanchar Nigam Limited	471	443	-28	-5.94%
3	Bihar	Bharat Sanchar Nigam Limited	245	90	-155	-63.27%
4	Delhi	MTNL	1977	1887	-90	-4.55%
5	Gujarat	Bharat Sanchar Nigam Limited	1929	1641	-288	-14.93%
6	Haryana	Bharat Sanchar Nigam Limited	141	133	-8	-5.67%
7	Himachal Pradesh	Bharat Sanchar Nigam Limited	440	46	-394	-89.55%
8	Jammu & Kashmir	Bharat Sanchar Nigam Limited	121	110	-11	-9.09%
9	Karnataka	Bharat Sanchar Nigam Limited	2781	1575	-1206	-43.37%
10	Kerala	Bharat Sanchar Nigam Limited	2772	2561	-211	-7.61%
11	Kolkata	Bharat Sanchar Nigam Limited	601	553	-48	-7.99%
12	Madhya Pradesh	Bharat Sanchar Nigam Limited	777	571	-206	-26.51%
13	Maharashtra	Bharat Sanchar Nigam Limited	2999	2844	-155	-5.17%
	Mumbai	MTNL	6081	5504	-577	-9.49%
15	North East	Bharat Sanchar Nigam Limited	310	254	-56	-18.06%
16	Odisha	Bharat Sanchar Nigam Limited	3	0	-3	-100.00%
17	Punjab	Bharat Sanchar Nigam Limited	589	552	-37	-6.28%
		Quadrant Televentures Ltd.	322	307	-15	-4.66%
18	Rajasthan	Bharat Sanchar Nigam Limited	276	148	-128	-46.38%
19	TN including Chennai	Bharat Sanchar Nigam Limited	7802	6971	-831	-10.65%
20	UP - East	Bharat Sanchar Nigam Limited	1288	1029	-259	-20.11%
21	UP - West	Bharat Sanchar Nigam Limited	546	535	-11	-2.01%
22	West Bengal	Bharat Sanchar Nigam Limited	18	13	-5	-27.78%
	Total		36259	30643	-5616	-15.49%

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

S.NO	Name of Telecom Service Area	Service Provider	Number of VPTs as on 30.6.2023	VPT Rural	VPT Urban	Number of VPTs as on 30.9.2023	Net VPTs increase/decrease as on 30.9.2023	Percentage Growth/Decline as on 30.9.2023
1	Andhra Pradesh	BSNL	2,896	0	0	2,896	0	0.00%
2	Assam	BSNL	105	0	0	105	0	0.00%
3	Bihar	BSNL	6,114	0	0	6,114	0	0.00%
4	Delhi	MTNL						
5	Gujarat	BSNL	5,278	0	0	5,278	0	0.00%
6	Haryana	BSNL	462	0	0	462	0	0.00%
7	Himachal Pradesh	BSNL	1,875	0	0	1,875	0	0.00%
8	Jammu & Kashmir	BSNL	810	0	0	810	0	0.00%
9	Karnataka	BSNL	3,656	0	0	3,656	0	0.00%
10	Kerala	BSNL	331	0	0	331	0	0.00%
11	Kolkata	BSNL	130	0	0	130	0	0.00%
12	Madhya Pradesh	BSNL	10,100	0	0	10,100	0	0.00%
13	Maharashtra	BSNL	7,846	0	0	7,846	0	0.00%
14	Mumbai	MTNL						
15	North East	BSNL	1,182	0	0	1,182	0	0.00%
16	Odisha	BSNL	1,554	0	0	1,554	0	0.00%
17	Punjab	BSNL	4,493	0	0	4,493	0	0.00%
18	Rajasthan	BSNL						
19	TN including Chennai	BSNL	5,478	0	0	5,478	0	0.00%
20	UP - East	BSNL	568	0	0	568	0	0.00%
21	UP - West	BSNL	3,758	0	0	3,758	0	0.00%
22	West Bengal	BSNL	11,970	0	0	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 30.09.2023**

S.N.	Name of Service Provider	Narrowband	Broadband	Total
1	Reliance Jio Infocomm Ltd	0	458961925	458961925
2	Bharti Airtel Ltd.	19289032	257590928	276879960
3	Vodafone Idea Ltd	10657459	126508459	137165918
4	Bharat Sanchar Nigam Ltd.	2982295	25121510	28103805
5	Atria Convergence Technologies Limited	0	2195788	2195788
6	Hathway Cable And Datacom Limited	0	1118634	1118634
7	ONEOTT iENTERTAINMENT LIMITED	0	1109662	1109662
8	Kerala Vision Broadband Ltd.	0	1008587	1008587
9	Excitel Broadband Private Limited	0	924050	924050
10	YOU Broadband India Ltd.	188776	701390	890166
11	GTPL Broadband Pvt. Ltd.	0	785111	785111
12	Netplus Broadband Services Pvt. Ltd	0	685213	685213
13	RailTel Corporation of India Ltd.	0	548266	548266
14	ALLIANCE BROADBAND SERVICES PVT. LTD.	0	544229	544229
15	Andhra Pradesh State Fiber Net Limited	0	518156	518156
16	Tata Play Broadband Private Limited	0	473013	473013
17	Mahanagar Telephone Nigam Limited	41068	409765	450833
18	Asianet Satellite Communications Ltd.	0	446159	446159
19	Intech Online Pvt. Ltd.	0	324585	324585
20	Blue Lotus Support Services Pvt Ltd. Erstwhile Limras Eronet Broadband Service Pvt Ltd	0	261946	261946
21	Quadrant Televentures Ltd.	76	260411	260487
22	Pioneer eLabs Limited	0	250671	250671
23	Tikona Infinet Ltd.	0	203901	203901
24	Ani Broadband Service Pvt. Ltd.	0	149476	149476
25	Antariksh Softech Private Limited	0	144724	144724
26	Siti Broadband Services Pvt. Limited	0	136595	136595
27	Indinet Service Pvt. Ltd.	0	133879	133879
28	Excell Media Pvt. Ltd.	0	133478	133478
29	Wish Net Pvt. Ltd.	0	124621	124621
30	GTPL KCBPL Broadband Private Limited	0	115442	115442
31	Airnet Cable and Datacom Pvt. Ltd.	0	105810	105810
32	Five Network Solution (India) Ltd.	0	93266	93266
33	Vortex Netsol Pvt. Ltd.	0	90102	90102
34	Ishan Netsol Pvt. Ltd.	0	80304	80304
35	Fusionnet Web Services Pvt Ltd	0	74019	74019
36	Dwan Supports Pvt. Ltd.	0	73629	73629

S.N.	Name of Service Provider	Narrowband	Broadband	Total
37	Microscan Infocommtech Private Limited	0	67614	67614
38	DEN Broadband Limited	0	62108	62108
39	K Net Solutions Pvt. Ltd.	0	60376	60376
40	Aerpace Communications Pvt Ltd	0	57161	57161
41	Snet Networks Pvt. Ltd.	0	49438	49438
42	Radinet Info Solutions Pvt. Ltd.	0	44795	44795
43	DNA Infotel Pvt. Ltd.	0	39709	39709
44	Instanet Technologies Pvt. Ltd.	0	38927	38927
45	ADN Broadband Private Limited	0	38001	38001
46	Meghbela Cable & Broadband Servies (P) Ltd	0	37389	37389
47	Multicraft Digital Technologies Private Limited	0	36417	36417
48	Nuron Networks India Private Limited	0	33617	33617
49	Gazon Communications India Limited	0	33109	33109
50	Juweriyah Networks Pvt. Ltd.	0	32885	32885
51	Readylink Internet Services Limited	0	32712	32712
52	IBUS VIRTUAL NETWORK SERVICES PRIVATE LIMITED	0	32165	32165
53	Ethernet Xpress(I) Pvt. Ltd.	0	31688	31688
54	WAVE FIBER PRIVATE LIMITED (erstwhile Coastal Broadband and Online Services Pvt. Ltd.)	0	30924	30924
55	Sristisanchar Webnet Limited	0	29054	29054
56	Tata Communications Limited	200	27187	27387
57	INFOCUS NETWORKS Pvt Ltd.	0	27189	27189
58	Shree Omkar Infocomm Pvt Ltd	0	27079	27079
59	Digital Networks Associates Pvt. Ltd.	0	25612	25612
60	Tata Teleservices(Maharashtra) Ltd.	116	25081	25197
61	Kernel Fibernet Online Network Pvt. Ltd.	0	25053	25053
62	Tachyon Communications Private Limited	0	24325	24325
63	Spiderlink Networks Pvt. Ltd.	0	23283	23283
64	Shyam Spectra Private Limited	0	23004	23004
65	Airfiber Networks Pvt. Ltd.	0	22308	22308
66	Tata Teleservices Limited	17	21951	21968
67	Kings Broadband Pvt. Ltd	0	21823	21823
68	Honeycomb Telnet Private Limited	0	20824	20824
69	Candor Infosolution Pvt. Ltd.	0	20443	20443
70	SIKKA BROADBAND PRIVATE LIMITED	0	20132	20132
71	VORTEX INFOCOM PRIVATE LIMITED	0	20105	20105
72	Swiftmail Communications Ltd.	0	19619	19619
73	Genstar Network Solutions Pvt. Ltd.	0	19197	19197
74	Honesty Net Solutions (I) Pvt Ltd	0	18897	18897

S.N.	Name of Service Provider	Narrowband	Broadband	Total
75	RI Networks Pvt Ltd	0	18320	18320
76	Fibervalley Communications Pvt. Ltd.	0	17507	17507
77	QUEST CONSULTANCY PVT LTD	0	17077	17077
78	Sri Sai Communication and Internet Private Limited	0	16539	16539
79	Rajesh Digital & DataCom Pvt. Ltd.	0	15632	15632
80	Weebo Networks Pvt Ltd.	0	15467	15467
81	Yashash Cable Network (Pvt.) Ltd	0	15341	15341
82	Paradise Telecom Pvt. Ltd.	0	15149	15149
83	Esto Broadband Pvt. Ltd.	0	14747	14747
84	D-ATUM Vilcom Private Limited	0	14189	14189
85	City Online Services Ltd.	0	13595	13595
86	Pacenet Meghbela Broadband Pvt.Ltd.	0	13408	13408
87	DDC Broad Band Pvt. Ltd	0	13358	13358
88	WAN AND LAN INTERNET PRIVATE LIMITED	0	13058	13058
89	Five Net Service Provider Pvt. Ltd.	0	12925	12925
90	Five Internet Solutions Pvt. Ltd.	0	12376	12376
91	RAINBOW COMMUNICATIONS INDIA PRIVATE LIMITED	0	12313	12313
92	DL GTPL Broadband Pvt. Ltd.	0	12227	12227
93	VIJAYALAKSHMI NET SERVICES PRIVATE LIMITED	0	11795	11795
94	Apple Broadband Services Pvt. Ltd.	0	11488	11488
95	Intermedia Cable Communication Pvt Ltd	0	10934	10934
96	Specific Net Pvt. Ltd	0	10914	10914
97	Net 9 Fibernet Pvt Ltd	0	10885	10885
98	R.G. Technosolutions Pvt. Ltd.	0	10398	10398
99	Rural Broadband Pvt. Ltd.	0	10279	10279
100	Angel Air Network Solutions Pvt. Ltd.	0	10099	10099
101	Siliguri Internet & Cable TV Pvt. Ltd.	0	10062	10062
102	NORTH EAST DATAA NETWORK PRIVATE LIMITED	0	9942	9942
103	INFONET COMM ENTERPRISES PVT LTD	0	9662	9662
104	AT Broadband Pvt. Ltd.	0	9548	9548
105	MAHA MEDIACOM INTERNET PVT. LTD.	0	9469	9469
106	FIBERX NETWORKS PRIVATE LIMITED (Erstwhile Known as Signum Digital Networks Pvt. Ltd)	0	9180	9180
107	Orange Infocom PVT.LTD	0	8974	8974
108	HYOSEC SOLUTIONS Pvt. LTD	0	8693	8693
109	APNA TELELINK PVT. LTD.	0	8238	8238

S.N.	Name of Service Provider	Narrowband	Broadband	Total
110	Vizag Broad CastingCompany Pvt. Ltd.	0	7969	7969
111	FUTURE CONNECT BROADBAND Pvt Ltd.	0	7904	7904
112	Airconnect Internet Services Pvt. Ltd.	0	7847	7847
113	Multinet (Udaipur) Pvt. Ltd.	0	7770	7770
114	Cityzone Infonet Pvt. Ltd.	0	7582	7582
115	WSNS PVT. LTD.	0	7465	7465
116	Gigaline Teleservices (OPC) Pvt. Ltd	0	7336	7336
117	FOXTEL TELECOMMUNICATIONS PVT LTD	0	7325	7325
118	Prisac Aviation Technologies Pvt. Ltd.	0	7071	7071
119	Kappa Internet Services Pvt. Ltd.	0	7024	7024
120	United Telecoms Ltd.	0	6801	6801
121	Sancfil Technologies Internet Services Pvt. Ltd.	0	6799	6799
122	Lalat Internet Service Private Limited	0	6794	6794
123	Patel Internet Pvt. Ltd.	0	6788	6788
124	SSCN Pvt. Ltd.	0	6670	6670
125	Shine Communications Pvt. Ltd.	0	6651	6651
126	Elxer Communications (P)Ltd.	0	6602	6602
127	ROHAN MEDIA PRIVATE LIMITED	0	6494	6494
128	Skymax Broadband Services Pvt. Ltd.	0	6442	6442
129	TJ BROADBAND NETWORK PVT LTD	0	6409	6409
130	QUALITY BROADBAND PRIVATE LIMITED	0	6387	6387
131	S S Netcom Pvt. Ltd.	0	6354	6354
132	7 Star Cablenet Pvt. Ltd	0	6297	6297
133	SANCHAR TELENETWORK PVT LTD	0	6202	6202
134	Dsouza Infotainment Pvt. Ltd.	0	6135	6135
135	DEEPNET BROADBAND PRIVATE LIMITED	0	6007	6007
136	Southern Online Bio Technologies Ltd.	0	5971	5971
137	SATELLITE NETCOM PRIVTAE LIMITED	5969	0	5969
138	Sify Technologies Ltd.	283	5652	5935
139	NEXTGEN BROADBAND PRIVATE LIMITED	0	5850	5850
140	LM Energy and Software Pvt. Ltd.	808	4991	5799
141	SONALI INTERNET SERVICES PVT. LTD.	0	5756	5756
142	OM-ASHA Net Pvt. Ltd.	0	5753	5753
143	Inet Fiber India Pvt. Ltd	0	5744	5744
144	Praction Networks Private Limited	0	5520	5520
145	Symbios Creations Pvt. Ltd.	0	5499	5499
146	SFOUR CABLENET PVT LTD	0	5371	5371
147	Mangaluru Broadband Network Pvt Ltd	0	5300	5300
148	Wefe Technology Pvt. Ltd.	0	5203	5203
149	GEOCITY NETWORK SOLUTIONS PVT. LTD.	0	5174	5174
150	SNS Internet Services Pvt. Ltd.	0	5140	5140

S.N.	Name of Service Provider	Narrowband	Broadband	Total
151	ARKTEL NETWORKS PVT LTD	0	5001	5001
152	ADN K NET FIBER PRIVATE LIMITED	0	4671	4671
153	HYFY Giga Fiber Pvt. Ltd.	0	4613	4613
154	Allnet Broadband Network Pvt Ltd	0	4521	4521
155	INRI COMMUNICATIONS PVT LTD	0	4493	4493
156	FIBRE AIR SERVICES Pvt Ltd.	0	4348	4348
157	EM-CYBER SPACE SERVICES PVT LTD	0	4264	4264
158	Hightec Network Solutions (opc) Private Limited	0	4219	4219
159	Vibhuti Networks Pvt. Ltd.	0	4064	4064
160	Bittel Telecom Private Limited	0	4062	4062
161	Siti vision Data Solutions Pvt Ltd	0	4028	4028
162	Blazenet Ltd.	0	4017	4017
163	SUPER SONIC BROADBAND PVT LTD	0	3915	3915
164	Siddhant Broadband Pvt. Ltd.	0	3857	3857
165	Userlinks Netcom Pvt. Ltd.	0	3855	3855
166	HIGHTECH BROADBAND SERVICES PVT. LTD	0	3824	3824
167	Falconet Internet Pvt Ltd	0	3823	3823
168	SoftCall Cust-O-Care Pvt. Ltd..	0	3699	3699
169	Kerala Fibre Optic Network Limited	0	3645	3645
170	Kumar Cable Digital Network Pvt. Ltd.	0	3640	3640
171	NEHA INFONET PVT LTD.	0	3575	3575
172	STN INFOTECH PVT. LTD.	0	3544	3544
173	Getway Broadband Pvt. Ltd.	0	3496	3496
174	Nirav Infoway Pvt. Ltd	0	3442	3442
175	DEHRADUN E NET SOLUTIONS PRIVATE LIMITED	0	3358	3358
176	Prathamesh Broadband Pvt. Ltd	0	3342	3342
177	Mukand Infotel Pvt. Ltd.	0	3335	3335
178	DREAMLINK TECHNOLOGIES PVT LTD	0	3325	3325
179	delDSL Internet Pvt Ltd	0	3269	3269
180	Net Access Internet India Private Limited	0	3248	3248
181	Krishinet Infocom Pvt. Ltd.	0	3225	3225
182	Sri Nagar Net Tech Pvt. Ltd.	0	3191	3191
183	Rainbow Internet teleservices Pvt Ltd	0	3184	3184
184	Maharaj Netsol Pvt Ltd	0	3136	3136
185	SCNSKY DIGITAL OPC PRIVATE LIMITED	0	3095	3095
186	AS Broadband Pvt. Ltd	0	3094	3094
187	Antarjal IT Communication Pvt. Ltd.	0	3083	3083
188	MicroNet Gigafiber Pvt Ltd	0	3025	3025
189	Netfox Networks Private Limited	0	2978	2978

S.N.	Name of Service Provider	Narrowband	Broadband	Total
190	Renu Giga Fiber Pvt. Ltd.	0	2904	2904
191	ajab media vision pvt. Ltd.	0	2900	2900
192	Kovai Fibernet Pvt. Ltd.	0	2859	2859
193	AAACLOUD TELEPHONY PRIVATE LIMITED	0	2822	2822
194	Netfirre Communications Pvt. Ltd.	0	2816	2816
195	Foxcell Communications Pvt. Ltd.	0	2785	2785
196	Sherie Plexus ISP Pvt. Ltd.	0	2779	2779
197	NETVISION AWADH NETWORKS PVT LTD	0	2774	2774
198	VRD Web Services Pvt. Ltd.	0	2762	2762
199	NETWAY INTERNET PVT. LTD.	0	2741	2741
200	Niss Internet Services Pvt. Ltd.	0	2680	2680
201	TGN NETWOKS PVT LTD	0	2679	2679
202	Exnet Broadband Pvt. Ltd.	0	2670	2670
203	TRANSMEDIA TECHNOLOGIES (AP) PVT LTD	0	2639	2639
204	ADRI INFOCOM Pvt. Ltd.	0	2559	2559
205	Myguru Online India (P)Ltd.	0	2490	2490
206	Deenet Services Pvt Ltd	0	2475	2475
207	Airgenie Communications Pvt. Ltd.	0	2460	2460
208	Gstech Software Systems Pvt Ltd	0	2456	2456
209	NET4U SERVICES PVT. LTD.	2450	0	2450
210	HBS Network Pvt. Ltd.	0	2440	2440
211	Chandra Net Pvt. Limited	0	2435	2435
212	Seven Star Digicomm Pvt. Ltd..	0	2426	2426
213	JDM Broadband Services Pvt. Ltd.	0	2396	2396
214	WOW Solutions and Systems Pvt. Ltd	0	2358	2358
215	Johnson Telemarketers Pvt. Ltd.	0	2355	2355
216	SBR Telecom Pvt. Ltd.	0	2350	2350
217	Real Wire Express Network Pvt. Ltd.	0	2341	2341
218	Spider Broadband Pvt. Ltd..	0	2313	2313
219	Fiberzone communication Pvt Ltd	0	2302	2302
220	Qwistel Network Service Pvt Ltd	0	2302	2302
221	OUTOFBOX NETWORKS PRIVATE LIMITED	0	2290	2290
222	VENKATA SAI INTERNET PRIVATE LIMITED	0	2278	2278
223	BHORER ALO CABLE AND BROADBAND PRIVATE LIMITED	0	2276	2276
224	Karunay Internet Pvt. Ltd.	0	2276	2276
225	Amar Broadband Pvt. Ltd..	0	2269	2269
226	Bakliwal Telecom Services Pvt. Ltd.	0	2236	2236
227	Seashell Networking Pvt Ltd	0	2213	2213

S.N.	Name of Service Provider	Narrowband	Broadband	Total
228	POWERNET TELECOM PVT LTD	0	2201	2201
229	SMART NET INDIA PVT LTD	0	2193	2193
230	Flashcom Network Pvt. Ltd.	0	2172	2172
231	SATHYA WEBSERVICES PRIVATE LIMITED	0	2153	2153
232	Suntech Sanchar Private Limited	0	2123	2123
233	TENG NETWORK SOLUTION PRIVATE LIMITED	2113	0	2113
234	North Point Services Pvt. Ltd.	0	2102	2102
235	LAKSHAY ISOLUTIONS INDIA PRIVATE LIMITED	0	2074	2074
236	Jetspot Networks Pvt. Ltd.	0	2061	2061
237	Classic Internet and Cable Services Pvt. Ltd.	0	2055	2055
238	Vision Smartlink Networking Pvt. Ltd.	0	2048	2048
239	SMARTLINK SOLUTIONS PVT. LTD.	0	2033	2033
240	A.S.C.S.C. DIGITAL PRIVATE LIMITED	0	2019	2019
241	KOLI'Z PRIVATE LIMITED	0	2010	2010
242	Shikhar BroadbandEnterprises Pvt. Ltd.	0	2000	2000
243	Pink Broadband Services Pvt. Ltd.	0	1990	1990
244	Tejays Dynamic Ltd.	27	1954	1981
245	TRICHY CHANNEL NINE CABLENET PRIVATE LIMITED	0	1977	1977
246	Aspirare Communications Pvt Ltd	0	1962	1962
247	Opticom Networks Pvt.Ltd	0	1961	1961
248	Megatel Networks Pvt. Ltd.	0	1951	1951
249	RSW Infoway Digital Solution Pvt Ltd	0	1941	1941
250	Southnet Broadband Pvt. Ltd.	0	1935	1935
251	IRISTEL Communication Private Limited (Erstwhile Known as Lotus Broadband Pvt. Ltd.)	0	1928	1928
252	CORREL IT SERVICE PVT LTD	0	1920	1920
253	SSKY CONNEECT Pvt Ltd.	0	1889	1889
254	BLITS GLOBAL TECHNOLOGIES Pvt. LTD	0	1884	1884
255	Merv Enterprises Pvt Ltd	0	1877	1877
256	Lbs Infoway India Pvt. Ltd.	0	1867	1867
257	First Mile Digital Private Limited	0	1860	1860
258	Scud Communication Pvt. Ltd.	0	1852	1852
259	D Nex technology Pvt. Ltd.	0	1846	1846
260	Sanchit Infocom Pvt Ltd	0	1818	1818
261	F2H Networks Pvt. Ltd.	0	1806	1806
262	MORE WIFI INTERNET PRIVATE LIMITED	0	1805	1805
263	Maulee Broadband Private limited	0	1792	1792
264	Bakcom Networks India Pvt. Ltd.	0	1790	1790
265	GNANA 11 COMMUNICATION PVT LTD	0	1779	1779

S.N.	Name of Service Provider	Narrowband	Broadband	Total
266	JB Jain Broadband Solutions Private Limited	0	1756	1756
267	Skyline Infonet Pvt. Ltd.	0	1753	1753
268	DNS SKYLINK PVT. LTD.	0	1728	1728
269	Assistive networks & technologie Pvt Ltd	0	1701	1701
270	Syntego Technologies India Pvt. Ltd.	0	1694	1694
271	Maruthi Cable & Data Pvt. Ltd.	0	1687	1687
272	Protoact Digital Network Pvt. Ltd.	0	1683	1683
273	S P Internet Technologies Pvt. Ltd.	0	1683	1683
274	Galaxynet Connections Pvt. Ltd.	0	1682	1682
275	City Online AP Pvt. Ltd.	0	1679	1679
276	Osbnnet Broadband Pvt. Ltd.	0	1671	1671
277	Jeebr Internet Service Private Limited	0	1667	1667
278	GRAND BROADBAND SERVICES PRIVATE LIMITED	0	1658	1658
279	ALACRIY NET SYSTEM SERVICE PRIVATE LIMITED	0	1657	1657
280	Wizbyte Networks Private Limited	62	1590	1652
281	psnet solutions pvt ltd	0	1648	1648
282	MOVEX DIGITAL TECHNOLOGY PVT LTD	0	1645	1645
283	Sefaro Networks Pvt. Ltd.	0	1629	1629
284	Sadaa SmartlinksCommunication Pvt. Ltd.	0	1621	1621
285	AMK SUNBEAM COMMUNICATION PRIVATE LIMITED	0	1611	1611
286	Mana Broadband Pvt. Ltd.	0	1610	1610
287	Spectram Telecom Pvt.Ltd	0	1604	1604
288	KARAD-D-INFRA GIGA NET PRIVATE LIMITED	0	1602	1602
289	KWIKZO TELECOMM Pvt. LTD	0	1582	1582
290	Charotar Telelink Pvt. Ltd..	0	1578	1578
291	Megahertz Internet Network Pvt. Ltd.	0	1577	1577
292	Onet Digital Networks Pvt. Ltd..	0	1574	1574
293	Sphier Infotech PVT. LTD.	0	1574	1574
294	UK GIGAFIBER INTERNET SERVICES PRIVATE LIMITED	0	1557	1557
295	Thrishul Broadband Pvt. Ltd..	0	1550	1550
296	Skynet Datacom Pvt. Ltd.	0	1547	1547
297	VPM NETWORKS PRIVATE LIMITED	1546	0	1546
298	Susneham Private Limited	0	1541	1541
299	INFINET BROADBAND PRIVATE LIMITED	0	1539	1539
300	B2H Infonet Pvt. Ltd.	0	1534	1534
301	VAYU ONLINE PRIVATE LIMITED	0	1519	1519
302	Capture Network Systems Pvt. Ltd.	0	1517	1517

S.N.	Name of Service Provider	Narrowband	Broadband	Total
303	Starlings Wireless Communications Pvt. Ltd.	0	1508	1508
304	Teligus Networks Pvt. Ltd	0	1507	1507
305	Speednet Unique Network Pvt. Ltd.	0	1506	1506
306	F/X Wireless Technology Services Pvt. Ltd.	0	1504	1504
307	Mayekar Broadband Pvt. Ltd.	0	1476	1476
308	ERO WIDE COMM Pvt. Ltd.	0	1458	1458
309	NGC Broadband Pvt. Ltd.	0	1444	1444
310	F2Connect Private Limited	0	1435	1435
311	S S Fiber Net OpticalCommunication Pvt. Ltd.	0	1431	1431
312	MGI NETWORKS PVT LTD	0	1426	1426
313	Ski Network Services Pvt. Ltd	0	1422	1422
314	Speedmaxx Digital Networks Pvt. Ltd.	0	1412	1412
315	Country Online Services Pvt. Ltd.	0	1408	1408
316	INET SEVICES PVT LTD	0	1407	1407
317	Blu Ultraband Internet Services Private Limited	0	1394	1394
318	Jiffy Cable & Datacom Pvt. Ltd.	0	1392	1392
319	Elyzium Technologies Pvt. Ltd.	0	1390	1390
320	SIS NETWORKS PVT LTD	0	1382	1382
321	Smart Wi5 Pvt. Ltd.	0	1372	1372
322	Sundaram Broadband Pvt Ltd	0	1358	1358
323	Uzaina Business India Pvt. Ltd.	0	1351	1351
324	Channel III Internet Pvt. Ltd.	0	1327	1327
325	Unitel Media Pvt. Ltd.	0	1320	1320
326	MAULI SHIV CABLE INTERNET SERVICES PRIVATE LIMITED	0	1319	1319
327	Venessa Internet Pvt. Ltd.	0	1316	1316
328	Vizag BroadbandCommunications Pvt. Ltd.	0	1313	1313
329	R2 Net Solutions Pvt. Ltd.	0	1304	1304
330	Sigaram Networks Pvt. Ltd.	0	1291	1291
331	VSJ INTERNET SERVICES PVT. LTD.	0	1290	1290
332	Peak Air Pvt. Ltd.	0	1289	1289
333	DHL Broadband Net Pvt. Ltd.	0	1288	1288
334	Gigacast Network Pvt. Ltd.	0	1288	1288
335	Minnal DigitalNetwork (P) Ltd.	0	1287	1287
336	Packenet Solutions Pvt. Ltd.	0	1274	1274
337	CARE BROADBAND PRIVATE LIMITED	0	1270	1270
338	Oxynet Telecommunications Pvt. Ltd	0	1259	1259
339	Airwaves Internet Pvt. Ltd.	0	1255	1255
340	Nikita Broadband Pvt. Ltd	0	1255	1255
341	MAURY BROADBAND MARKETING PRIVATE LIMITED	0	1252	1252

S.N.	Name of Service Provider	Narrowband	Broadband	Total
342	City Broadband Network Pvt Ltd	0	1248	1248
343	MAKS COMMUNICATIONS PVT.LTD.	0	1248	1248
344	SNDC COMMUNICATION PRIVATE LIMITED	0	1248	1248
345	Shrisai Shavenk Technologies Pvt. Ltd.	0	1242	1242
346	Mhase Internet Network (OPC) Pvt. Ltd.	0	1224	1224
347	UNITED STARS NETWORK PRIVATE LIMITED	0	1221	1221
348	AIRWIR TECHNOLOGIES PVT LTD	0	1220	1220
349	ARCLINK NETWORK Pvt Ltd.	0	1211	1211
350	Space Hitz Network Pvt Ltd	0	1209	1209
351	Grace Teleinfra Pvt Ltd	0	1200	1200
352	Unigro Infranet Online Pvt. Ltd.	1195	0	1195
353	Sharplink Wireless Solution Pvt. Ltd.	0	1194	1194
354	Veloxr Telecom Pvt. Ltd.	0	1192	1192
355	Poem Techno Pvt. Ltd.	0	1186	1186
356	FTTX Broadband P Ltd	0	1180	1180
357	Stackbit Internet Services Pvt. Ltd.	0	1179	1179
358	REVOLUTION BROADBAND PVT LTD	0	1177	1177
359	Cyber City ExtremeBroadband Pvt. Ltd.	0	1162	1162
360	INTERJET INDIA PRIVATE LIMITED	0	1157	1157
361	GREEN ARROW TECHNOLOGY PRIVATE LIMITED	0	1152	1152
362	Navkar Netsol Pvt. Ltd..	0	1151	1151
363	SkyComm Internet Service Private Limited	0	1151	1151
364	Sampath Venkateswara Communications Pvt. Ltd.	0	1133	1133
365	Corsica Solutions Private Limited	0	1128	1128
366	TECHNETSOL INFOTECH PRIVATE LIMITED	0	1126	1126
367	In Broadband Pvt.ltd	0	1121	1121
368	Green Tech Net Com Pvt. Ltd.	0	1118	1118
369	DNS INFONET Pvt Ltd	0	1113	1113
370	Global (India) Tele Infra Pvt. Ltd.	0	1103	1103
371	MAHRTH INTERNET SERVICES PRIVATELIMITED	1103	0	1103
372	ACN Fiber Pvt. Ltd.	0	1100	1100
373	World Fibernet Private Ltd	0	1100	1100
374	Sukruti Gen Networks Pvt. Ltd.	0	1097	1097
375	Treelink Broadband Pvt. Ltd.	0	1092	1092
376	Suniman Cable and Net Pvt Ltd	0	1090	1090
377	Hardwork Cable & Internet services Pvt. Ltd.	0	1072	1072
378	SHAILDHAR TELECOM SERVICES Pvt. LTD	0	1068	1068

S.N.	Name of Service Provider	Narrowband	Broadband	Total
379	Ashley Internet Services Pvt. Ltd.	0	1067	1067
380	Click 4 Net InternetServices Pvt. Ltd.	0	1064	1064
381	CITY TRANSMISSION NETWORK PRIVATE LIMITED	1060	0	1060
382	DIGHES INTERNET SERVICES OPC PRIVATE LIMITED	0	1059	1059
383	Asg Telecom Pvt. Ltd	0	1055	1055
384	Hostaxis Network Pvt. Ltd.	0	1045	1045
385	EBENEZAR COMMUNICATIONS PVT. LTD.	0	1044	1044
386	SEYFERT NETWORKS PRIVATE LIMITED	0	1041	1041
387	Al-Mairah Braodband Pvt. Ltd.	0	1024	1024
388	Netlinx Limited	0	1016	1016
389	SKY ONLINE TECHNOSYSTEM PVT LTD	0	1016	1016
390	FASTNET COMMUNICATION PVT. LTD.	1014	0	1014
391	Rtel Internet services Pvt Ltd	0	1005	1005
392	Trueinet Networks Pvt.Ltd	0	1005	1005
393	CATLA IT&ENGG. CO. PVT LTD.	0	1000	1000
394	GPS Connection Private Limited	0	974	974
395	AHM Digital Network Pvt Ltd	0	970	970
396	Seyon Tele Infra Private Limited	0	970	970
397	Netfirst Communications Pvt. Ltd.	0	969	969
398	Sheng Li Telecom India Pvt. Ltd..	0	968	968
399	Macro Signal Pvt. Ltd	0	958	958
400	M Netplus Communication Services Pvt Ltd	0	946	946
401	Anushree Digital Network Pvt Ltd	0	944	944
402	Surround Networks Pvt Ltd	0	943	943
403	DA Smartzone Pvt. Ltd.	0	940	940
404	NetMagic Solutions(P) Ltd.	0	927	927
405	Gulbarga Mega Speed Pvt Ltd	0	926	926
406	Sarvada net Pvt. Ltd	0	922	922
407	Wyris Network Pvt. Ltd.	0	918	918
408	ALWAR ONLINE PVT LTD	0	910	910
409	R.P.TECH-ZONE PRIVATE LIMITED	0	904	904
410	Darer Internet Services Pvt. Ltd.	0	902	902
411	Glo Internet Services Pvt Ltd	0	901	901
412	Briskcom Infoway Pvt. Ltd.	0	900	900
413	OM SHIV SAI INTERNET SERVICE (OPC) PVT. LTD	0	900	900
414	Spider Broadband & Cable Pvt. Ltd.	0	900	900
415	RADHIKA COMMUNICATION BROADBANDPRIVATE LIMITED	0	898	898
416	Shri Samarth Infobahn Pvt. Ltd.	893	0	893

S.N.	Name of Service Provider	Narrowband	Broadband	Total
417	BTS TELECOM PVT LTD	0	887	887
418	WANSH INTECH SERVICES HUB PRIVATE LIMITED	0	883	883
419	AKD NETWORK PRIVATE LIMITED	0	875	875
420	Ficus Telecom Pvt. Ltd.	0	873	873
421	NTT Communications India Network Services Private Ltd.	0	871	871
422	SRI KRISHNA INTERNET SERVICE PVT LTD	0	867	867
423	IAXN TELECOM PVT LTD	0	866	866
424	MIT ONLINE OPC Pvt Ltd	0	863	863
425	Sai Dwarawati Net Services Pvt. Ltd.	0	860	860
426	ARJUN BROADBAND PRIVATE LIMITED	0	853	853
427	Balaji Infra Ray Pvt. Ltd.	0	850	850
428	Skyber Broadband Service Pvt. Ltd	0	850	850
429	NETSAT COMMUNICATIONS PVT. LTD.	0	838	838
430	Meerut Internet Services Pvt. Ltd.	835	0	835
431	Mhatoba BroadbandPvt. Ltd	0	834	834
432	Clickian Network Pvt. Ltd.	0	832	832
433	Gleam Worldwide Services Pvt. Ltd.	0	825	825
434	Nettab Broadband Pvt Ltd	0	822	822
435	VICTORY DIGITAL NETWORK PRIVATE LIMITED	0	821	821
436	Ultimate Internet Services Pvt. Ltd.	0	814	814
437	Rathnaa Spectra Pvt. Ltd.	0	813	813
438	SRI NETT PRIVATE LIMITED	0	813	813
439	Sharva Telenet Private Limited	0	812	812
440	Sivaan Infocom Pvt. Ltd	0	807	807
441	Primenet Global Private Limited (erstwhile known as Primenet Global Ltd.)	0	797	797
442	AU NetworksPvt. Ltd.	0	796	796
443	HPS DIGITAL BROADBAND PVT LTD	795	0	795
444	Reliance Communications Limited	793	0	793
445	RK Broadband Hifi Services Pvt Ltd	793	0	793
446	SVD Digital Networks Pvt. Ltd.	0	793	793
447	Telosy Telecom Pvt. Ltd.	0	791	791
448	Moradabad Internet Services Pvt. Ltd.	0	790	790
449	KESHAVA DIGITAL NETWORK PVT. LTD.	0	785	785
450	Vinayaga Communications Pvt Ltd.	0	785	785
451	RAGAI NETWORK PRIVATE LIMITED	0	778	778
452	SRI BALAJI INTERNET PVT LTD	0	770	770
453	Bapu Internet ServicesPvt. Ltd.	0	768	768

S.N.	Name of Service Provider	Narrowband	Broadband	Total
454	DURONTO NETWORKS (OPC) PRIVATE LIMITED	0	765	765
455	Alegra Communication Pvt Ltd	0	763	763
456	Datawave IT solutions Pvt. Ltd.	0	763	763
457	Rida Communication Pvt. Ltd.	0	762	762
458	Touchnet Broadband Services Pvt. Ltd.	0	757	757
459	SB Broadband Services Pvt. Ltd	0	756	756
460	Lakecity Intercom Private Limited	0	742	742
461	INFOLINK BROADBAND SERVICES PRIVATE LIMITED	0	739	739
462	Reticule Infotech Pvt. Ltd.	0	737	737
463	SG Broadband Internet Pvt. Ltd.	0	736	736
464	Suraj Networks Pvt. Ltd.	0	736	736
465	Shineplus Networks Pvt. Ltd.	0	735	735
466	FASTCOM TELELINK PRTVATE LIMITED	0	734	734
467	PARAMOUNT INFINET PVT. LTD.	0	734	734
468	Dreamnet Gigafiber Pvt Ltd	0	732	732
469	GVREDDY TELECOMMUNICATIONS (OPC) PVT LTD	0	731	731
470	Software Technology Parks of India	12	718	730
471	Bluwaves Internet Services India Pvt. Ltd.	0	729	729
472	Shass Information and Quality Engineering Services Pvt. Ltd.	0	728	728
473	SAI DWARAWATI NET SERVICES PVT. LTD.	0	726	726
474	PJR NET SERVICE PRIVATE LIMITED	0	725	725
475	Power Grid Corporation of India Ltd.	0	723	723
476	Spirenet Digital Communications Pvt. Ltd.	0	720	720
477	Elitel Solutions Private Limited	0	712	712
478	Graceway Infrastructure and Services Pvt. Ltd	0	712	712
479	HANSA BROADBAND SERVICES PRIVATE LIMITED	0	711	711
480	Kosmic Broadband Pvt Ltd	0	710	710
481	Mahabal Net Service Provider	0	710	710
482	Cloudnet Communications Pvt. Ltd.	0	706	706
483	OUTRAGEOUS NETSOLE PRIVATE LIMITED	700	0	700
484	Vimal Telecom Pvt. Ltd	0	694	694
485	HINDAVI TELECOM PRIVATE LIMITED	0	689	689
486	MAXNET DIGITAL PRIVATE LIMITED	0	687	687
487	Gloiosa Infotel IT Services Pvt Ltd.	0	682	682
488	SERANS FIBERNET PRIVATE LIMITED	0	677	677
489	C. J. Online Pvt. Ltd.	0	675	675

S.N.	Name of Service Provider	Narrowband	Broadband	Total
490	TOUCH NET INDIATELESERVICES PRIVATE LIMITED	0	673	673
491	CAB-NET SERVICES PRIVATE LIMITED	0	670	670
492	N4U broadband pvt.ltd	0	670	670
493	PRIYANK INFOMATICS (OPC) PRIVATE LIMITED	0	670	670
494	GAURESH CABLENET SERVICES PRIVATE LIMITED	0	668	668
495	Craze IT Solutions Pvt Ltd	0	667	667
496	Spark Telecommunication Private Limited	0	667	667
497	BASS NETWORKS PRIVATE LIMITED	0	661	661
498	Development Logics Solutions Pvt. Ltd.	0	650	650
499	Uttam Infranet Pvt. Ltd..	0	648	648
500	Nandini Broadband Pvt. Ltd.	0	645	645
501	ACME Diginet Corporation Pvt. Ltd.	0	634	634
502	Blue Net IT Solutions Pvt. Ltd.	0	631	631
503	HDM BROADBAND PRIVATE LIMITED	0	631	631
504	INCUBIX UNIFIED SOLUTIONS PRIVATE LIMITED	0	631	631
505	Bass Jokernet Pvt. Ltd.	0	630	630
506	WEBNET BROADBAND (OPC) PRIVATE LIMITED	0	622	622
507	Rajesh Patel Net Services Pvt. Ltd.	0	620	620
508	B R MHATRE PRIVATE LIMITED	0	617	617
509	Airnetz Broadband Services Pvt. Ltd.	0	613	613
510	Goodwill Smartlink Pvt. Ltd.	0	613	613
511	Ometa Net Pvt. Ltd.	0	612	612
512	Datamax Technologies Pvt Ltd	0	611	611
513	Nextra Communications Private Limited	0	609	609
514	Airway Communication Services India Pvt. Ltd.	0	608	608
515	RNET GIGAFIBER Pvt. LTD	608	0	608
516	Windsor Internet Pvt. Ltd.	0	608	608
517	CLOUDPATH TELECOM PVT LTD	0	604	604
518	ALLIED IT INFRASTRUCTURE & SERVICES PRIVATE LIMITED	603	0	603
519	RAAGAV COMMUNICATIONS PVT LTD	0	603	603
520	Bandwidth Infinity Pvt. Ltd	0	601	601
521	Easy Solutions InternetServices Pvt. Ltd.	0	600	600
522	LIMERICK TECHNOLOGIES PRIVATE LIMITED	0	600	600
523	Aeroway Networks Pvt. Ltd.	0	599	599
524	YES BROADBANDPRIVATE LIMITED	0	596	596

S.N.	Name of Service Provider	Narrowband	Broadband	Total
525	RSBS Online Services Pvt. Ltd.	0	595	595
526	VASANSHAH NETWORK PRIVATE LIMITED	0	594	594
527	Gowio Networks Pvt. Ltd	0	591	591
528	NC BROADBAND SERVICES PRIVATE LIMITED	0	590	590
529	Daksh Broadband Services Pvt. Ltd.	0	584	584
530	PRATIK NETWORKING SOLUTIONS PRIVATE LIMITED	0	583	583
531	R.P World Webnet Pvt.Ltd.	0	579	579
532	Alphanet Broadband Pvt Ltd	0	571	571
533	BENVAR PRIVATE LIMITED	0	562	562
534	Nanjil Internet Services Pvt. Ltd.	0	560	560
535	Kad-Syscon NetworksPvt. Ltd	0	558	558
536	Sprioc Web Private Limited	0	558	558
537	Gazillio Technologies Pvt. Ltd.	0	557	557
538	SHILOM NETWORK SERVICES PRIVATE LIMITED	0	556	556
539	Blazing SpeedBroadband Pvt. Ltd.	0	550	550
540	Prayag BroadbandPvt. Ltd.	0	550	550
541	Digital2Virtual ISP Pvt. Ltd.	0	549	549
542	Panav Network and Communications Private Limited	0	548	548
543	Clicknet Communication Pvt. Ltd.	545	0	545
544	Fastnet Wire & Wireless Solutions Pvt. Ltd.	0	543	543
545	DV INFOCOM PRIVATE LIMITED	0	540	540
546	FIBER POWER CONNECTS PRIVATE LIMITED	0	540	540
547	MSINFINITY ETHERNET SOLUTIONS PRIVATE LIMITED	534	0	534
548	SARVA AIRWORLD NETWORK PVT LTD	0	533	533
549	Shree Manoranjan Broadband Pvt. Ltd.	0	531	531
550	Singh Televentures Pvt Ltd	0	530	530
551	7 Sai Net Solutions Pvt. Ltd.	0	527	527
552	Malang Solutions Pvt. Ltd.	0	527	527
553	CNS Infotel Services Pvt. Ltd..	0	518	518
554	WIND STREAM NETWORK PRIVATE LIMITED	0	516	516
555	AL HUTAIB NETSOL PRIVATE LIMITED	0	514	514
556	Wi-Link Network Pvt. Ltd	0	513	513
557	Manish Infocom Pvt. Ltd.	0	511	511
558	NEONET COMMUNICATIONS PVT. LTD.	0	509	509
559	FASTJET TELECOM PRIVATE LIMITED	0	505	505

S.N.	Name of Service Provider	Narrowband	Broadband	Total
560	Monark Broadband Private Limited	0	505	505
561	Tanvi Broadband Pvt Ltd	0	503	503
562	G B Internet Service Private Limited	0	501	501
563	Smart Choice Wireless Network Pvt. Ltd.	501	0	501
564	RACSANN TECHNOLOGIES PVT. LTD.	0	500	500
565	Royal Connect Solutions Pvt. Ltd	0	499	499
566	Cityline Networks Pvt Ltd	0	496	496
567	Sparklink. Net Pvt. Ltd.	0	495	495
568	DE-CIX Interwire Internet Services Pvt. Limited	0	492	492
569	JMD INTERNET AND SERVICES PVT. LTD.	0	490	490
570	KOSHI BROADBAND COMMUNICATIONS (OPC) PVT LTD	0	487	487
571	Mall and Mall Digiworld Pvt. Ltd.	0	487	487
572	Feathers wireless network (opc) Pvt. Ltd.	0	486	486
573	Dhanam Internet Services India Pvt. Ltd.	0	479	479
574	LINK 4 DATA COMMUNICATION PVT LTD	0	476	476
575	ULTRAVISION INFOSERVE PVT LTD	0	476	476
576	Texes Connect Private Limited	0	475	475
577	AT&T Global Network Service India Private Limited	0	473	473
578	Wavetree Networks Pvt. Ltd.	0	471	471
579	GIGANET DIGITAL NET SERVICES PRIVATE LIMITED	0	469	469
580	SYNCFAC TO CONSULTING Pvt Ltd.	0	465	465
581	SANSOM NETTECH PRIVATE LIMITED	0	462	462
582	Spiretel Technologies Pvt Ltd	0	462	462
583	Acegen Broadband Pvt. Ltd.	0	461	461
584	Gaba Associates internet service provider pvt ltd.	0	461	461
585	OPTO Communications Private Limited	0	456	456
586	OM INTERNET BROADBAND SERVICE Pvt. LTD	455	0	455
587	Unisas Netserve Pvt. Ltd.	0	455	455
588	Ishani Broadband Pvt Ltd	0	453	453
589	Quick Link Broadband and Services Pvt. Ltd.	0	452	452
590	GTECH COMMUNICATION Pvt Ltd	0	451	451
591	MANA INTERNET SERVICES PRIVATE LIMITED	0	451	451
592	Sistemas Information Technology Pvt. Ltd.	0	451	451
593	Gera Cable Internet Service Pvt. Ltd.	0	447	447
594	Aeronet online services private limited	0	443	443
595	Gorkha Infotech Private Limited	0	442	442
596	MREZHI INTERNET PRIVATE LIMITED	0	440	440

S.N.	Name of Service Provider	Narrowband	Broadband	Total
597	Daan Communications Private Limited	0	438	438
598	KKM Broadband Internet Pvt. Ltd.	0	438	438
599	Unborn Networks Pvt. Ltd.	0	438	438
600	BPS COMMUNICATION AND SERVICES PRIVATE LIMITED	0	435	435
601	DMDS SOLUTIONSPRIVATE LIMITED	0	434	434
602	Wireline Solution India Pvt Ltd	0	432	432
603	Prompt Infracom Pvt. Ltd.	0	430	430
604	SAI KUMAR INFONET PRIVATE LIMITED	0	423	423
605	BSL Technologies Pvt. Ltd.	0	420	420
606	Earthlink Broadband Pvt. Ltd	0	420	420
607	Kataria Net Solutions Pvt. Ltd.	0	420	420
608	CONSAM TELECOM PRIVATE LIMITED	0	418	418
609	Sysnet Broadband Services Pvt. Ltd.	0	417	417
610	Suncity Broadband Pvt. Ltd.	0	415	415
611	Alien DNS Pvt. Ltd.	0	413	413
612	TRACKNET SERVICES PVT LTD	0	413	413
613	RUSH ME BROADBAND PRIVATE LIMITED	0	403	403
614	SIDDIQUI GLOBAL SERVICES PVT LTD	0	403	403
615	FASUTONETTO SERVICES PRIVATE LIMITED	0	400	400
616	KSK Broadband Pvt. Ltd.	0	400	400
617	HANUMAT NETWORKS PRIVATE LIMITED	0	397	397
618	TECHNOMEX INFOCOM SYSTEMS PVT LTD.	0	392	392
619	Linkway Internet Pvt.Ltd.	0	391	391
620	VDCN INFOTECH PRIVATE LIMITED	0	390	390
621	Visputes Internet Pvt. Ltd.	0	390	390
622	Terrafiber Networks Pvt. Ltd.	0	388	388
623	Airlink Communications Pvt. Ltd.	0	382	382
624	VORRUCKEN NETWORKS PRIVATE LIMITED	0	382	382
625	VIBELINK INFOTECH PRIVATE LIMITED	0	381	381
626	Skylink Fibernet Pvt. Ltd.	0	380	380
627	SmchondheCommunication Pvt. Ltd	0	380	380
628	Cybernet Introtech Pvt. Ltd.	0	375	375
629	NETZI BROADBAND SERVICES PVT LTD	373	0	373
630	DMP Internet ServicesPvt. Ltd	0	372	372
631	VIVEK NETWORK PRIVATE LIMITED	0	371	371
632	Starnet Global Pvt. Ltd.	0	370	370
633	Rocketwire Internet Solutions Pvt. Ltd.	0	365	365
634	SAPTRANET INDIA PVT LTD	0	365	365

S.N.	Name of Service Provider	Narrowband	Broadband	Total
635	airtechzone services india private limited	0	360	360
636	COMPLIANCE BROADBAND PRIVATE LIMITED	0	355	355
637	Honey Broadband Services Pvt. Ltd.	0	354	354
638	JD Net Enterprises Pvt. Ltd	0	354	354
639	3J Global Services Pvt Ltd	0	353	353
640	SSICON SYSTEMS PRIVATE LIMITED	0	350	350
641	WAY2NET IT SERVICES PVT LTD	0	350	350
642	APPCALL INTERNET SERVICES PRIVATE LIMITED	0	347	347
643	LINKWAVE TECHNOLOGIES PVT LTD	0	347	347
644	Nandita Infocom Pvt. Ltd.	0	347	347
645	Sense Connect IT Pvt. Ltd.	0	347	347
646	Imperium Digital Network Pvt. Ltd.	0	345	345
647	PULSE TELESYSTEMS PRIVATE LIMITED	0	343	343
648	PRO MULTILINK SERVICE (OPC) PRIVATE LIMITED	0	338	338
649	SPARKLIGHT INTERNET PRIVATE LIMITED	0	338	338
650	VERYS INFOTECH PRIVATE LIMITED	0	335	335
651	PRONET PRIVATE LIMITED	0	334	334
652	Sai Akshay Internet Services Pvt Ltd.	0	332	332
653	Yuva Communications Private Limited	0	332	332
654	Hipoint Connect Pvt. Ltd.	0	329	329
655	Twincity Communication Private Limited	0	328	328
656	I-Infolink Networks Pvt. Ltd.	0	327	327
657	AiriconCommunication Pvt. Ltd	0	325	325
658	Excogitate Technologies Pvt. Ltd.	0	325	325
659	R N Broadband Online Pvt. Ltd	0	325	325
660	Citylink Broadband Services Pvt. Ltd.	0	324	324
661	Simplex Broadband Pvt. Ltd.	0	320	320
662	Ncore Creative Technologies Pvt. Ltd	0	318	318
663	METREXA BROADNET PRIVATE LIMITED	0	316	316
664	IQTERA COMMUNICATION PVT LTD	0	315	315
665	Proline Datatech Services Pvt. Ltd.	0	311	311
666	Bluenet Broadband Services Pvt. Ltd.	0	310	310
667	AARADHY LIAISON SERVICES PRIVATE LIMITED	0	309	309
668	Runet infotech India pvt ltd	0	309	309
669	Barani Data Solutions Private Limited	307	0	307
670	Gramin Broadband Network Pvt. Ltd.	0	307	307
671	Srushti Broadband And Internet Services Pvt. Ltd.	0	304	304
672	TRIVNET NETWORKS PRIVATE LIMITED	0	304	304

S.N.	Name of Service Provider	Narrowband	Broadband	Total
673	Voxterria Innovtions Pvt. Ltd.	0	304	304
674	Inter Net LY Pvt. Ltd.	0	302	302
675	Apex Netcom India Pvt. Ltd..	0	300	300
676	FLITZEN BROADBAND Pvt Ltd.	0	300	300
677	Hyber Networking Pvt. Ltd.	0	300	300
678	SBS BROADBAND AND CABLE PVT. LTD.	0	296	296
679	Onepipe Telecom Pvt. Ltd	0	293	293
680	Zoram Infonet Pvt. Ltd.	0	293	293
681	Skyhunt IT Park Pvt. Ltd.	0	290	290
682	SMARTLINK BROADBAND SERVICES PVT LTD	0	286	286
683	Digital Telco Network India Pvt. Ltd.	0	285	285
684	O V NETWORKS PVT LTD	0	281	281
685	Vizcon Digital Pvt. Ltd.	280	0	280
686	BLESS NETWORK PRIVATE LIMITED	278	0	278
687	HDN COMMUNICATIONS PRIVATE LIMITED	0	278	278
688	Verizon Communications India Pvt. Ltd.	0	278	278
689	SWANAND INTERNET SERVICES PRIVATE LIMITED	0	271	271
690	J-Link Infotainment Pvt. Ltd.	0	270	270
691	GPALV BROADBAND PRIVATE LIMITED	0	267	267
692	TRIGART INTERNET PVT. LTD.	0	265	265
693	LINKSPEED TELEINFRA PRIVATE LIMITED	0	261	261
694	Elecon Information Technology Ltd.	0	260	260
695	SIDDHBALI INFOTECH PVT LTD.	0	260	260
696	Singh Internet Services Pvt. Ltd.	0	260	260
697	BBRG Communication and Internet Pvt. Ltd.	0	258	258
698	AIRONET BROADBAND PRIVATE LIMITED	0	257	257
699	Devdarpan Broadband Pvt Ltd	256	0	256
700	EYE FASTNET SERVICE PRIVATE LIMITED	0	254	254
701	Ruhban Telecommunication Private Limited	0	254	254
702	CHANNEL 3 INFO MEDIA PRIVATE LIMITED	0	250	250
703	Linkio Fibernet Private Limited	0	250	250
704	SPEEDGLOBAL TELECOM NETWORK PRIVATE LIMITED	0	250	250
705	Nivak Communications Pvt. Ltd	0	249	249
706	King Netsol Pvt. Ltd.	27	221	248
707	Sreedevi Communications Private Limited	0	248	248
708	GIGA BEAM BROADBAND PVT.LTD.	0	247	247
709	SNT Broadband Pvt. Ltd.	0	247	247

S.N.	Name of Service Provider	Narrowband	Broadband	Total
710	TEJNET GIGAFIBER PRIVATE LIMITED	0	247	247
711	Excel UG Pvt. Ltd	0	245	245
712	MRRIDSYS TECHNOLOGIES PVT LTD	0	245	245
713	Breitband Technologies Private Limited	0	243	243
714	LINKUNIVERSE COMMUNICATION PRIVATE LIMITED	0	242	242
715	STN Communication & Advertising Pvt. Ltd.	0	239	239
716	TAIBA SUPER INTERNET PRIVATE LIMITED	239	0	239
717	AEROLINK BROADBAND PRIVATE LIMITED	0	238	238
718	Microsense Pvt Ltd	0	237	237
719	Netrexo Communications Private Limited	0	237	237
720	PRSHREE Networks Private Limited	0	237	237
721	JTM Internet Pvt. Ltd	0	236	236
722	KALYAN BROADBAND PRIVATE LIMITED	0	236	236
723	ABNSERVICES PVT LTD	0	235	235
724	Ecreado Network Solutions Pvt. Ltd.	0	233	233
725	LAYA NETWORK PRIVATE LIMITED	0	233	233
726	MANAS INTERNET TECHNOLOGY PRIVATE LIMITED	0	230	230
727	Pegasuswave Private Limited	0	230	230
728	FoFo Networks Private Limited	0	229	229
729	Hipath Netcom Services Pvt. Ltd.	0	228	228
730	Magnuss Broadband Service Pvt. Ltd.	0	228	228
731	RIHANT INFOTECH PVT. LTD	0	228	228
732	ZEES BROAD BAND PRIVATE LIMITED	0	228	228
733	VN ETHERNET INDIA PRIVATE LIMITED	227	0	227
734	INYCB Network Pvt. Ltd.	0	226	226
735	HiFi Broadband Pvt. Ltd.	225	0	225
736	METAWAVES PRIVATE LIMITED	0	225	225
737	TELEMANTRRA SALES CORPORATION PRIVATE LIMITED	0	225	225
738	WAY2AIR NET SOLUTION PVT. LTD.	0	224	224
739	AIT Internet Services Pvt. Ltd.	0	222	222
740	Auspice Infratel Pvt. Ltd.	0	222	222
741	Rmax Broadband Pvt. Ltd.	0	222	222
742	Peer Networks Private Limited	0	221	221
743	Vrednus Network Pvt. Ltd.	0	221	221
744	Speedster Communications Pvt. Ltd	0	220	220
745	SWAMIVATVRUKSHA NET (OPC) PVT LTD	0	220	220
746	ACEBROWSE PVT LTD	0	219	219

S.N.	Name of Service Provider	Narrowband	Broadband	Total
747	Ekowebtech IT Services Private Limited	0	219	219
748	LEROY NETWORKS AND SERVICES PRIVATE LIMITED	0	218	218
749	NIKITA INTERNET SERVICES PRIVATE LIMITED	0	218	218
750	CIT SOLUTIONS PVT. LTD.	0	217	217
751	KHUSHI CABLE AND TELEINFRA PRIVATE LIMITED	0	215	215
752	ZR NET OPC PVT LTD	215	0	215
753	Costel Networks Pvt. Ltd.	0	212	212
754	iBus Network & Infrastructure (P) Ltd.	0	212	212
755	JAYBHOLE CABLE VISION PRIVATE LIMITED	0	212	212
756	OS IT SERVICES PRIVATE LIMITED	0	212	212
757	Anish Infoline Pvt. Ltd.	0	211	211
758	Enhancelink Coreport Pvt. Ltd	0	211	211
759	Tca Network Pvt Ltd	0	211	211
760	Airwire Infocom Pvt. Ltd.	0	210	210
761	NAS INTERNET SERVICES PVT LTD	0	210	210
762	arrow touch wireless internet private limited	0	208	208
763	Sath Technologies Pvt. Ltd.	0	207	207
764	AATTIZEN TELECOM PRIVATE LIMITED	0	206	206
765	Saibaba Broadband Pvt. Ltd.	0	206	206
766	BRAMBHANI TRADERS PVT.LTD.	0	205	205
767	S.V.C CABLE NET PRIVATE LIMITED	0	205	205
768	Aayu Infonet Pvt. Ltd.	0	203	203
769	VAIDIK NETSOL OPC PVT LTD	0	202	202
770	VELOCITY INTERNET INDIA PRIVATE LIMITED	202	0	202
771	Dhadam Hospitality & Services Pvt. Ltd.	0	200	200
772	Orange City Internet Services Pvt. Ltd.	0	198	198
773	Frontier Infra Communications(P) Ltd.	0	197	197
774	SPACELINK INTERNET (OPC) PRIVATE LIMITED	0	196	196
775	NEAM COMMUNICATIONS PRIVATE LIMITED	0	195	195
776	YNET TELECOM SOLUTIONS PVT LTD	0	193	193
777	LINKOTEK NETWORK PVT LTD	0	190	190
778	SAIDEEP BROADBAND PRIVATE LIMITED	0	190	190
779	FRIDDEN INFOWAY PVT. LTD..	0	189	189
780	Wi5 Internet Services Pvt. Ltd.	0	189	189
781	Cheetah Networks Pvt. Ltd.	0	188	188

S.N.	Name of Service Provider	Narrowband	Broadband	Total
782	Data Ingenious Global Ltd	0	188	188
783	Vaishnavai bhavi Internet Solutions Private Limited	0	188	188
784	KISHAN WEALTH MANAGEMENT PRIVATE LIMITED	0	187	187
785	Neton Icom Pvt. Ltd.	0	187	187
786	M-TEL Networks (P) Ltd	0	186	186
787	BT Global Communication India Pvt. Ltd.	0	185	185
788	Pune Teleinfra Pvt. Ltd..	0	185	185
789	Varsha Datacom Services Pvt. Ltd.	0	184	184
790	Optisky Fibernet Pvt. Ltd.	0	183	183
791	AIRMAX INTERNET PVT LTD	0	181	181
792	BALAJI INFO NETWORKS SOLUTIONS PRIVATE LIMITED	0	180	180
793	Promptnet Broadband Pvt. Ltd.	0	180	180
794	Sator Square Ventures Private Limited	0	180	180
795	Shreepad Communication Pvt. Ltd.	0	180	180
796	VMO BROADBAND PVT LTD	0	180	180
797	White Stallion Networks Pvt. Ltd.	0	179	179
798	SRI RAM BROADBAND SERVICES PRIVATE LIMITED	0	178	178
799	Roarnet Broadband Pvt Ltd	0	177	177
800	BHAVANI VMD BROADBAND PRIVATE LIMITED	0	173	173
801	CLOUDINSTA24 SERVICES PRIVATE LIMITED	0	171	171
802	Rae Internet Service Provider Pvt Ltd	0	171	171
803	CINFOGEN PRIVATE LIMITED	0	170	170
804	WNET TELECOM PRIVATE LIMITED	0	170	170
805	NETKLIKS COMMUNICATIONS PRIVATE LIMITED	0	168	168
806	PMG Networks Pvt. Ltd.	0	167	167
807	V NETCARE PRIVATE LIMITED	0	167	167
808	Oistel Telecom Pvt. Ltd.	0	166	166
809	Fibernetisp Pvt. Ltd.	0	165	165
810	Wifi Inter-connect Pvt. Ltd.	0	162	162
811	Digitizer Access Network Private Limited	0	160	160
812	smart plus multi services pvt ltd	0	160	160
813	ATMA MALIK 1313 INTERNET SERVICES PVT. LTD.	0	159	159
814	Netwire Internet Solutions Pvt. Ltd.	0	157	157
815	Viking Network Pvt. Ltd	0	157	157

S.N.	Name of Service Provider	Narrowband	Broadband	Total
816	Antariksh Broadband & Wireless Solution Pvt. Ltd.	0	153	153
817	Noob Technologies Pvt.Ltd	0	152	152
818	NEXTGEN COMPUSOFT PVT LTD	0	151	151
819	Futurenet broadband and internet services pvt ltd	150	0	150
820	iGEN Networks Private Limited	0	150	150
821	Prateek Netconnect Pvt. Ltd	0	150	150
822	SHEEN TELECOM CONSULTANTS PVT LTD	0	150	150
823	Airfiber IT Solutions Pvt. Ltd.	0	149	149
824	Patil ISP Services (OPC) Pvt. Ltd.	74	74	148
825	Netstra Communications Pvt.. Ltd.	0	147	147
826	SHREEB NETWORK PVT LTD	0	146	146
827	Sharktel Infocom Pvt. Ltd.	0	144	144
828	LINKED NET TECHNO SERVICES PRIVATE LIMITED	0	143	143
829	NIVID TELECOM INDIA PRIVATE LIMITED	0	143	143
830	VISHWAKARMA BROADBAND PRIVATE LIMITED	0	143	143
831	Ezeenet Internet Solutions Pvt. Ltd.	0	142	142
832	GauravCommunication Pvt. Ltd	0	142	142
833	Delix Net Solutions Pvt. Ltd	0	141	141
834	KB Digital Network Pvt.Ltd.	0	139	139
835	Teleglobal Communiocations pvt Ltd	139	0	139
836	Achiever Communication and Services Pvt. Ltd.	0	137	137
837	Vision Hi-Speed Technology Pvt. Ltd.	0	137	137
838	Hari Om Netsol Pvt. Ltd.	136	0	136
839	Pyramid Infocom Pvt. Ltd.	136	0	136
840	VIDHI NETSOL PRIVATE LIMITED	0	136	136
841	DREAMCABLES AND INTERNET SERVICES PRIVATE LIMITED	0	135	135
842	Mediatech Communication Pvt. Ltd.	0	135	135
843	Mahadev Telventures Pvt Ltd	0	134	134
844	Galvin Broadband (OPC) Pvt. Ltd.	0	130	130
845	Shree Siddhivinayak Cable And Internet Service Provider Private Limited.	0	129	129
846	Wingsnet Internet Pvt.Ltd	0	129	129
847	DIGITAL SSV NET SOL PRIVATE LIMITED	0	128	128
848	JBN Online Pvt. Ltd.	0	127	127
849	YNET BROADBAND SERVICES PRIVATE LIMITED	0	127	127
850	EZNET INDIA PRIVATE LIMITED	0	126	126
851	MLC INTERNET PVT LTD	0	126	126

S.N.	Name of Service Provider	Narrowband	Broadband	Total
852	Linkup Networks Pvt. Ltd.	0	125	125
853	A-Net Communication India Pvt.Ltd.	0	123	123
854	NT CYBRONET PRIVATE LIMITED	0	123	123
855	Zubitel Networks Pvt. Ltd.	0	123	123
856	KARRY BROADBAND PRIVATE LIMITED	0	121	121
857	Telstra Telecommunications Private Limited	0	121	121
858	AIRMAX SOLUTION AND INTERNET SERVICES PVT LTD	0	120	120
859	ALLIANT NETWORK SOLUTIONS PRIVATE LIMITED	0	120	120
860	LEVOTEL BIGNET SOLUTIONS PRIVATE LIMITED	0	118	118
861	V NET NETWORKS PVT. LTD	0	118	118
862	Magica Networking Solutions Pvt. Ltd.	0	117	117
863	ASVISH TECHNOLOGY PARTNER (OPC) PVT LTD	0	116	116
864	POLY INFORMATICS PVT.LTD.	0	115	115
865	Blenda Internet ServicesIndia Pvt. Ltd.	0	113	113
866	Jetato Skynet Services Pvt. Ltd.	0	113	113
867	Pronoc Technologies Pvt. Ltd.	0	113	113
868	Joshi Internet Services Pvt. Ltd.	0	111	111
869	Japra Tele Link Pvt. Ltd.	0	110	110
870	Jasnet Networks Pvt. Ltd.	18	92	110
871	Orange Business Services India Network Pvt. Ltd.	0	110	110
872	Clickr Services Private Limited	0	109	109
873	NR IT Service Pvt. Ltd.	0	109	109
874	Durga Broadband Pvt. Ltd.	0	108	108
875	FIBERMAX PRIVATE LIMITED	0	108	108
876	E I DOT Com Pvt. Ltd.	0	106	106
877	Elyzium Globenet Pvt. Ltd.	0	106	106
878	Skynet Broadband Pvt. Ltd.	0	105	105
879	Chaitali Communications (OPC) Pvt.Ltd	0	104	104
880	ITech Hive Pvt. Ltd	0	104	104
881	Thangam Communications Pvt.Ltd.	0	104	104
882	Rohela Broadband Network Pvt. Ltd.	0	103	103
883	SHIVKRANTI INTERNET SERVICES PVT. LTD.	0	103	103
884	Khetan Cable Network (P) Ltd	0	102	102
885	Invensys Networks Pvt.Ltd.	0	101	101
886	AWLIV LIVING SOLUTIONS PRIVATE LIMITED	0	100	100
887	Netlife Network Pvt. Ltd..	0	100	100

S.N.	Name of Service Provider	Narrowband	Broadband	Total
888	NSD Internet Private Limited	0	100	100
889	R3ESOLUTION Pvt Ltd.	0	100	100
890	swami Samarth Broadband Service Pvt Ltd	0	100	100
891	FLIX BROADBAND SERVICES PRIVATE LIMITED	0	99	99
892	Broad Net India Pvt. Ltd.	0	97	97
893	JAGUAR BYTE TECHNOLOGY PRIVATE LIMITED	0	97	97
894	MICRONOVA TELE SYSTEMS PRIVATE LTD.	0	97	97
895	SADBUDHHI SOLUTIONS PVT LTD	0	97	97
896	AXOMNET BROADBAND Pvt. LTD.	0	95	95
897	Pier Communication Pvt. Ltd	0	95	95
898	Winnet Broadband Pvt. Ltd.	0	95	95
899	SPEEDNET OPTICAL NETWORK Pvt Ltd.	0	94	94
900	Datawings Teleinfra Private Limited	0	94	94
901	GSDN COMMUNICATION PRIVATE LIMITED	0	93	93
902	Satpar Infotech Pvt Ltd	0	93	93
903	TENTEQ BROADBAND PVT. LTD.	0	93	93
904	Vishwamani Solutions Pvt Ltd	0	92	92
905	PAWAN BROADBAND INDIA PVT LTD	0	91	91
906	Bilal Internet Services Private Limited	0	90	90
907	S A Internet Solution Pvt Ltd	0	90	90
908	Saisidhivinayank Internet service private limited	0	90	90
909	Fabnet Services Private Limited	0	89	89
910	INFINITY WIRELESS SERVICES PVT. LTD.	0	89	89
911	Gaxiom Networking Solutions Private Limited	0	88	88
912	Inic Communications Private Limited	0	88	88
913	DHUNI NETSOL PRIVATE LIMITED	0	87	87
914	SGCI Pvt. Ltd.	0	87	87
915	SPEEDNET INFORMEDIA PVT LTD	0	87	87
916	RAMYAA INTERNET SERVICES PRIVATE LIMITED	0	86	86
917	Kelnet Communication Services Pvt. Ltd	0	85	85
918	Aircables Internet Services Pvt. Ltd.	0	84	84
919	ANODIC TELENETWORK PVT LTD	0	84	84
920	ASHOKA NETSOL PVT LTD	0	84	84
921	GIGHZ IT SOLUTIONS PRIVATE LIMITED	0	84	84
922	IT Spectrum Media Pvt Ltd	0	84	84
923	Euron Communication Pvt. Ltd.	0	83	83
924	NENCY CABLE PVT LTD	0	81	81

S.N.	Name of Service Provider	Narrowband	Broadband	Total
925	Omkar Net Services Pvt. Ltd.	0	81	81
926	Denet Connect Services Pvt Ltd	0	80	80
927	NEXAEDGE INDIA Pvt Ltd.	0	80	80
928	PATHCOM COMMUNICATIONS PRIVATE LIMITED	0	80	80
929	Precious Netcom Pvt Ltd	0	80	80
930	Rita Infocom Pvt. Ltd.	0	80	80
931	Heramb T-10 Network Pvt. Ltd..	0	78	78
932	TEJNET BROADBAND Pvt Ltd.	0	77	77
933	IOEACCESS COMMUNICATIONS PVT LTD	0	76	76
934	nwt internet services private limited	0	76	76
935	DAMAN I NET (OPC) PRIVATE LIMITED	0	75	75
936	GAYATRI TELECOM PVT LTD	0	75	75
937	G-Max IT Services Pvt. Ltd.	0	75	75
938	Suryasspeed Network Pvt Ltd	0	75	75
939	WEBIZY TECHSOL PVT LTD	0	75	75
940	Shri Vinayagaa Internet Pvt Ltd	0	74	74
941	NR Data Service Pvt Ltd.	0	72	72
942	SBDR NETWORK SOLUTIONS PRIVATE LIMITED	0	72	72
943	SHERAWAT INFOTECH PRIVATE LIMITED	0	72	72
944	Ayman Internet Pvt. Ltd.	0	70	70
945	MABA SAFENET BROADBAND SERVICES PVT LTD	0	70	70
946	Sankrish Infocom Private Limited	0	70	70
947	Tamana Winet Pvt. Ltd.	0	70	70
948	Sanavi Infotech (OPC) Pvt. Ltd.	0	69	69
949	Amity Hua Electronics Pvt. Ltd.	0	67	67
950	Nextech Broadband Pvt.Ltd	0	65	65
951	Dataexpress Pvt. Ltd	0	64	64
952	Ekdant Communication Pvt. Ltd.	0	64	64
953	FIBERLINK COMMUNICATION PRIVATE LIMITED	0	64	64
954	JETONE FIBER PRIVATE LIMITED	0	64	64
955	Mark Networks SolutionsIndia Pvt. Ltd.	0	64	64
956	Veer Point Pvt. Ltd.	0	64	64
957	WINUX COMMUNICATIONS PVT LTD	0	64	64
958	EASYNET BROADBAND PVT LTD	0	63	63
959	Jai Mata Di Telectronix Pvt. Ltd.	0	63	63
960	Playernet Technologies Private Limited	0	63	63
961	S.G.I.C SERVICES PRIVATE LIMITED	0	63	63
962	Samruddhi Communication Pvt. Ltd.	0	62	62

S.N.	Name of Service Provider	Narrowband	Broadband	Total
963	U-FIBER BROADBAND PRIVATE LIMITED	0	61	61
964	Broadstar Net India Pvt. Ltd.	0	60	60
965	Kim Broadband Services Pvt. Ltd.	0	60	60
966	Linktel Info Technology Pvt Ltd	0	60	60
967	GURU NETCOM PVT. LTD.	0	59	59
968	GJ2 INTERNET PRIVATE LIMITED	0	57	57
969	Infiber Broadnet Pvt. Ltd.	0	56	56
970	VR INTERNET PRIVATE LIMITED	55	0	55
971	Creative BroadbandServices Pvt. Ltd	0	55	55
972	Malachandra Broadband Services Private Limited	0	55	55
973	Trivoz Digital Networks Pvt. Ltd.	0	55	55
974	Aamak Network Pvt. Ltd.	0	54	54
975	Bloglytics Internet Pvt.Ltd	0	54	54
976	FutureNet Telecom Private Limited	54	0	54
977	BEURACK VELOCITY INFOCOM PVT LTD	0	53	53
978	NAS Broadband Pvt. Ltd	0	53	53
979	Hansin IT Services Private Limited	0	52	52
980	VIDARBHA WI-FI AND NETWORK SERVICES PVT LTD.	0	52	52
981	MAXWEB MULTIMEDIA PRIVATE LIMITED	0	51	51
982	Pteron Communication Pvt. Ltd	0	51	51
983	VIVA Communications Pvt Ltd	0	51	51
984	ACHARE BROADBAND (OPC) PRIVATE LIMITED	0	50	50
985	BRIZZ BROADBAND PRIVATE LIMITED	0	50	50
986	DNet E Solutions Pvt. Ltd.	0	50	50
987	Quantasoul Airollogix Pvt. Ltd.	0	48	48
988	BRIGHTNET INTERNET SOLUTIONS (OPC) PRIVATE LIMITED	0	48	48
989	Nextra Teleservices Pvt. Ltd.	0	48	48
990	A M Broadband Pvt.Ltd	0	47	47
991	Fibernet Solutions (OPC) Pvt. Ltd.	0	47	47
992	GIGANETWORK INFO PRIVATE LIMITED	0	47	47
993	Gponspace Internet India Pvt. Ltd.	0	47	47
994	ZITA TELECOM PRIVATE LIMITED	0	47	47
995	Gigalo Communication Pvt Ltd	9	37	46
996	NM Paribas Private Limited	0	46	46
997	AMIGOS BROADBAND PVT LTD	5	40	45
998	HAPPY BYTES BROADBAND (OPC) PRIVATE LIMITED	0	45	45
999	PADMESH BROADBAND PRIVATE LIMITED	0	45	45
1000	Priveka Web Services Pvt. Ltd.	0	45	45

S.N.	Name of Service Provider	Narrowband	Broadband	Total
1001	MARUTI INTERACTIVE NETWORK PRIVATE LIMITED	0	44	44
1002	Tiruppur Broadwave Pvt. Ltd.	0	44	44
1003	IKRA Broadband Private Limited	0	43	43
1004	Ajay Cable & Broadband Service OPC Pvt. Ltd	0	42	42
1005	KUNAL SPEEDNET SOLUTIONS Pvt. LTD	0	42	42
1006	Froze Communications Pvt. Ltd.	0	41	41
1007	SMPL Networks Pvt. Ltd.	0	41	41
1008	Ziptel IT Solutions Pvt. Ltd.	26	15	41
1009	Fastx Broadband Pvt. Ltd.	0	40	40
1010	Jmohit Cable Vision Pvt. Ltd.	0	40	40
1011	KORD BROADBAND SERVICES PRIVATE LIMITED	0	40	40
1012	WAGHESHWAR NETVISION PRIVATE LIMITED	40	0	40
1013	Manumata Fiber Net Solutions PVT LTD	0	38	38
1014	KKD Broadband Pvt Ltd	0	37	37
1015	DFAB INTERNET SERVICES PRIVATE LIMITED	0	36	36
1016	JKM DIGITAL SERVICES (OPC) PVT LTD	0	36	36
1017	R.P. World Telecom Pvt. Ltd.	0	36	36
1018	Speedobits Internet Private Limited	0	36	36
1019	ANSH NET SOL PRIVATE LIMITED	0	35	35
1020	Edge Telecommunications Pvt. Ltd.	35	0	35
1021	FASTHOOK NETWORKS PVT LTD	0	35	35
1022	IndrayaniCommunication Pvt. Ltd	0	34	34
1023	SHRAVI COMMUNICATION PVT LTD	0	34	34
1024	STABLE NETWORK PVT LTD	0	34	34
1025	Tarantula WebNetworks Pvt. Ltd.	0	34	34
1026	INTRO TELECOM Pvt Ltd.	0	33	33
1027	CABLECOM NETWORK PRIVATE LIMITED	0	32	32
1028	Bajpai Telecom Pvt. Ltd.	0	30	30
1029	DYSINT NETWORKS PRIVATE LIMITED	0	30	30
1030	Kutch Telelink Pvt. Ltd.	0	30	30
1031	Doonbroadband Pvt. Ltd.	0	29	29
1032	RISING INTERNET PRIVATE LIMITED	0	29	29
1033	ST BROADBAND CABLE SERVICE PRIVATE LIMITED	0	29	29
1034	Streamax Broadband Services Pvt. Ltd	0	29	29
1035	HELM CONSULTANTS PVT LTD	28	0	28
1036	SASH Broadband Private Limited	14	14	28
1037	Skynet Zone Wifi Services (P) Ltd.	0	28	28

S.N.	Name of Service Provider	Narrowband	Broadband	Total
1038	WE INTERNET LIMITED	0	27	27
1039	DENSIS ONLINE PVT LTD	0	26	26
1040	Spacetrade Internet Pvt Ltd	0	26	26
1041	DRONAGIRI INFOTECH PVT LTD	0	25	25
1042	LECTO TECH BROADBAND PRIVATE LIMITED	0	25	25
1043	SAMVAD TELECOM	19	6	25
1044	Sudhana Telecommunication Pvt Ltd.	0	25	25
1045	TREELINK NETWORK PVT LTD	0	25	25
1046	Unified Voice Communication Pvt. Ltd.	0	25	25
1047	AVD INFOCOM PRIVATE LIMITED	0	24	24
1048	Stromnet Broadband Services Private Limited	0	24	24
1049	KHETAN TELECOMMUNICATIONS PRIVATE LIMITED	0	23	23
1050	Pacific Internet India Pvt. Ltd.	0	23	23
1051	Praveen Telecom Pvt. Ltd.	0	23	23
1052	Saagars Channel Pvt. Ltd.	0	23	23
1053	Abis Badlapur Network Pvt. Ltd.	0	22	22
1054	Airlink Teleservices Private Limited	0	22	22
1055	LIVE FIBERNET SERVICE PRIVATE LIMITED	0	22	22
1056	Smartware Technologies Pvt. Ltd.	0	22	22
1057	Aerocast Networks Pvt Ltd.	0	21	21
1058	FURIOUSPEED PRIVATE LIMITED	0	21	21
1059	Pintwire Infomatics Pvt. Ltd.	0	21	21
1060	Sun Broadband and Data Services PVT. LTD.	0	18	18
1061	FUTURE INTERNET PRIVATE LIMITED	0	17	17
1062	ERNET India	0	17	17
1063	TELESECURE COMMUNICATIONS PRIVATE LIMITED	0	17	17
1064	Mpr Infonet Systems Private Limited	0	16	16
1065	Ultrawave Internet Access Pvt. Ltd.	3	13	16
1066	BUDANTA NETWORKS PRIVATE LIMITED	0	15	15
1067	CL INTERNET SERVICE PRIVATE LIMITED	0	15	15
1068	GENIUS NETWORK PRIVATE LIMITED	0	15	15
1069	Hienet Internet Services Pvt. Ltd.	0	15	15
1070	Mesh Infranet Pvt. Ltd.	0	15	15
1071	Microtel Internet Network Pvt. Ltd.	0	15	15
1072	Haze Internet Services Private Limited	0	14	14
1073	JARIMARI PRIVATE LIMITED	0	14	14
1074	Marutham Networks Pvt. Ltd.	0	14	14
1075	SAI LEELA'S INTERNET SERVICE PVT. LTD.	0	14	14

S.N.	Name of Service Provider	Narrowband	Broadband	Total
1076	SEVENNET BROADBAND SERVICES PRIVATE LIMITED	0	14	14
1077	SPEEDPULSE DIGITAL NETWORK PRIVATE LIMITED	0	14	14
1078	MILAN MULTISERVICES PRIVATE LIMITED	13	0	13
1079	Orbitedge Broadband Private Limited	0	12	12
1080	Passcom System and Services Pvt. Ltd.	0	12	12
1081	TLN COMMUNICATION PRIVATE LIMITED	0	12	12
1082	ANGROW NETCOMM PRIVATE LIMITED	0	11	11
1083	SAMAIRA INFOTECH PVT. LTD.	0	11	11
1084	WAY 2 INTERNET Pvt Ltd.	0	11	11
1085	YOTTA NETWORK SERVICES PRIVATE LIMITED	0	11	11
1086	10G TELECOM PVT LTD	0	10	10
1087	AISN INTERNET SERVICE PRIVATE LIMITED	0	10	10
1088	DAVA TELECOM PRIVATE LIMITED	0	10	10
1089	DIGITAL OXYGEN PRIVATE LIMITED	0	10	10
1090	FIBERLINK BROADBAND PRIVATE LIMITED	0	10	10
1091	Mastek Infosystems OPC Pvt. Ltd.	0	10	10
1092	SB LINK INFOSERVE PRIVATE LIMITED	0	10	10
1093	SOFTNET NETWORK PVT LTD	0	10	10
1094	Upnet Communications Pvt. Ltd.	0	10	10
1095	VISHVA INFRATEL PRIVATE LIMITED	0	10	10
1096	Ceralink Communication Pvt Ltd	9	0	9
1097	HELLO NETWORK SERVICE Pvt Ltd.	0	9	9
1098	WORLD PHONE INTERNET SERVICES PVT LTD	0	9	9
1099	CELESTIAL LINK PRIVATE LIMITED	0	8	8
1100	GOLCON TECHNOLOGIES PRIVATE LIMITED	0	8	8
1101	Jet Netcom Broadband Pvt. Ltd.	0	8	8
1102	Tatanet Services Ltd	0	8	8
1103	Uttradoon Networks Pvt. Ltd.	0	8	8
1104	CIFY IT Services Pvt. Ltd.	0	7	7
1105	Clear Beam Communication Pvt. Ltd.	0	7	7
1106	J AND D COMMUNICATIONS PRIVATE LIMITED	0	7	7
1107	Riyaz Internet Services Pvt. Ltd.	0	7	7
1108	BRAVISHMAH INFOTECH PRIVATE LIMITED	0	6	6
1109	Comtel Services Pvt. Ltd.	0	6	6

S.N.	Name of Service Provider	Narrowband	Broadband	Total
1110	Fibmesh IN Limited	0	6	6
1111	Hybrid Hash Pvt. Ltd.	0	6	6
1112	Kartik Network Pvt. Ltd.	0	6	6
1113	NETVIGATOR BROADBAND PVT LTD	0	6	6
1114	Aristo Telenet Pvt Ltd	0	5	5
1115	Blueline ISP Pvt. Ltd	0	5	5
1116	EI BROADBAND PVT LTD.	5	0	5
1117	ZAPTIC PRIVATE LIMITED	0	5	5
1118	CLOUD8IN TECHNOLOGIES PRIVATE LIMITED	0	4	4
1119	ESP Fibernet Pvt. Ltd.	0	4	4
1120	GPX India Services Pvt. Ltd.	0	4	4
1121	Play Bunch Entertainment Pvt Ltd	0	4	4
1122	Speed WiFi Pvt. Ltd.	0	4	4
1123	UBERCORE DATA LABS PVT LTD	0	4	4
1124	AGILE NETLINK PRIVATE LIMITED	0	3	3
1125	Cloudcast Digital Ltd.	0	3	3
1126	Critel Technologies Pvt. Ltd.	0	3	3
1127	METICULOUS NETWORKS PRIVATE LIMITED	0	3	3
1128	MRKR COMMUNICATIONS PRIVATE LIMITED	0	3	3
1129	NP-GOLDNET PRIVATE LIMITED	0	3	3
1130	ACHILLES INTERNET SERVICES PRIVATE LIMITED	0	2	2
1131	ACTIVELINK NETWORK PVT. LTD.	2	0	2
1132	ESTO MEDIA PRIVATE LIMITED	0	2	2
1133	GBLINK NETWORKSOLUTIONS PRIVATE LIMITED	0	2	2
1134	GEGA BROADBAND SOLUTION PRIVATE LIMITED	0	2	2
1135	Isyan Communication Pvt. Ltd	0	2	2
1136	My Digital NetworkLtd.	0	2	2
1137	Red Fiber Telecom Pvt Ltd	0	2	2
1138	Sabse Internet Service Provider Pvt. Ltd.	0	2	2
1139	Sai Technix Pvt Ltd	0	2	2
1140	Winet Infratel Pvt. Ltd.	0	2	2
1141	A TO Z INFOLINK PVT. LTD.	0	1	1
1142	B PRIMO INTERNET SERVICES PVT LTD	0	1	1
1143	BHUMITAT ISP PRIVATE LIMITED	0	1	1
1144	FLYFAST CONNECTIONS Pvt. LTD	0	1	1
1145	MINDAGE BROADCASTING Pvt. LTD	0	1	1

S.N.	Name of Service Provider	Narrowband	Broadband	Total
1146	Nelco Ltd.	0	1	1
1147	Nuozen Telecom Pvt. Ltd.	0	1	1
1148	Sahiba Silk Mills Pvt. Ltd.	0	1	1
1149	SHYAM DATA & VOICE SERVICES PVT LTD	0	1	1
1150	V-CON Mobile & Infra private limited	0	1	1
1151	VERIZONE BROADBAND SERVICES PRIVATE LIMITED	0	1	1
	Total	33188335	884998662	918186997
	Total (in million)	33.19	885.00	918.19

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

Annexure 1.6: State/UT-wise Public Wi-Fi Hotspots as on 30.09.2023

S.No.	State/UT	Sum of Number of Public Wi-Fi Hotspots	Sum of Number of Access Points	Sum of Number of unique Wi-Fi Users	Sum of Aggregate Data Consumed (GB)
1	Andhra Pradesh	3874	6947	1768355	178403
2	Arunachal Pradesh	484	1024	6879	8657
3	Assam	787	1719	632786	161611
4	Bihar	31073	32885	4732622	863385
5	Chattisgarh	4616	10801	489507	111184
6	Goa	158	581	35203	12208
7	Gujarat	7195	15918	2001826	1355519
8	Haryana	6584	9908	965465	87718
9	Himachal Pradesh	1119	2272	31231	17229
10	Jharkhand	2940	5914	841005	232698
11	Karnataka	8553	26465	1139405	160110
12	Kerala	3956	8196	2021809	262836
13	Madhya Pradesh	14857	26785	2921478	381071
14	Maharashtra incl. Mumbai	17620	39226	19651458	966770
15	Manipur	74	252	10339	11016
16	Meghalaya	188	529	4812	38247
17	Mizoram	38	126	1275	3982
18	Nagaland	81	262	27367	5973
19	Odisha	3615	5730	904476	216564
20	Punjab	9615	11656	546653	77939
21	Rajasthan	2726	8055	2266417	267649
22	Sikkim	47	334	1283	799
23	Tamil Nadu incl. Chennai	2046	6808	1529946	189513
24	Telangana	6023	14675	1101651	185887
25	Tripura	605	721	63171	20159
26	Uttar Pradesh (UPE+UPW)	28701	114841	5199148	704414
27	Uttarakhand	1676	5150	171513	75332
28	West Bengal incl. Kolkata	3779	12061	5693587	481035
Union territories					
29	Andaman & Nicobar Islands	48	154	199	383
30	Chandigarh	91	839	50599	6172
31	Dadar & Nagar Haweli & Daman & Diu	41	41	0	0
32	Delhi	686	11547	2548922	196872
33	Jammu & Kashmir	1524	3240	220625	28219
34	Ladakh	0	0	0	0
35	Lakshdweep	0	0	0	0
36	Puduchery	113	687	18287	13486
	Total	165533	386349	57599299	7323038

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

Annexure 1.7: List of Service Providers which reported IP Telephony Minutes for Q.E. September-23

S. No.	Name of Service Providers reported IP Telephony Minutes as on 30th September 2023
1	Alliance Broadband Services Pvt. Ltd.
2	Novanet Ltd.
3	Viva Communications Pvt. Ltd.
4	Weco Infotech Pvt. Ltd.
5	Shyam Spectra Private Limited.
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	Skyfall Voice Communications Pvt. Ltd.
13	Warmconnect Internet Services Pvt. Ltd.
14	Reticule Infotech Pvt. Ltd.

Annexure 1.8: Service Area wise PMRTS subscriber Base

S.No.	DOT Licensed Service	Area Served	Service Provider	Subscriber Base	
				30.06.2023	30.09.2023
1	Andhra Pradesh	Hyderabad	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	2,717	2,640
			QuickCall	977	1,080
		Visakhapatnam	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	3,945	4,041
Total				7,639	7,761
2	Delhi	Delhi	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,006	6,889
			Procall Ltd.	3,570	3,946
		Total			
3	Gujarat	Ahmedabad	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,118	1,072
		Amreli	Inative Networks Pvt. Ltd.	-	-
		Bharuch	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,437	1,612
			Inative Networks Pvt. Ltd.	-	-
		Dahej	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,442	1,652
		Jamnagar	Inative Networks Pvt. Ltd.	360	360
		Kutch	Inative Networks Pvt. Ltd.	205	205
		Surat	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,878	2,012
			Inative Networks Pvt. Ltd.	895	895
		Vadodara	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,756	1,831
Inative Networks Pvt. Ltd.	360		360		
Total				9,451	9,999
4	Karnataka	Bangalore	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,469	7,646
			QuickCall	474	474
		Total			
5	Kerala	Ernakulam	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	994	1,001
		Kerala	Wiwonet Solutions Pvt. Ltd	1,107	1,146
		Total			
6	Kolkata	Kolkata	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,527	1,563
7	Madhya Pradesh	Indore	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,838	1,872
8	Maharashtra	Khandala	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	480	491
		Pune	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	1,621	1,685
			Smartalk Pvt Ltd.	649	636
Total				2,750	2,812
9	Mumbai	Mumbai	Airtalk Solutions & Services Pvt. Ltd.	882	934
			Arya Omnitalk Radio Trunking Services Pvt.Ltd.	9,310	9,058
			Bhilwara Telenet Services Pvt.Ltd.	883	817
			Smartalk Pvt Ltd.	768	842
Total				11,843	11,651
10	Rajasthan	Jaipur	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	813	913
			Procall Ltd.	490	490
		Total			
11	Tamil Nadu	Chennai	Arya Omnitalk Radio Trunking Services Pvt.Ltd.	7,497	7,281
			QuickCall	371	367
		Total			
Grand Total				67,820	65,811

**Annexure 2.1: Wireless Revenue Service - Service Area wise Statistics for
QE Jun, 2023**

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	92.81%	180	11	468	458	926
Gujarat	93.02%	156	13	382	377	759
Karnataka	87.38%	173	14	463	447	909
MH	93.78%	161	13	391	388	779
TN (incl. Chennai)	90.50%	175	10	436	430	866

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	90.16%	126	8	419	421	840
Kerala	95.88%	166	6	327	332	658
MP	94.95%	140	13	449	448	897
Punjab	93.40%	156	8	414	400	814
Rajasthan	95.28%	151	11	467	469	936
UP(E)	96.20%	116	11	583	593	1176
UP(W)	96.18%	135	11	479	488	967
WB	97.62%	143	13	515	527	1042

Key parameters for service areas of category-C

Service Area	% of pre-paid in total subscribers	ARPU (Rs. per month)	Total usage (from & outside HSA) per subscriber per month			
			Outgoing SMS	Outgoing MOU	Incoming MOU	Total MOU
Assam	97.15%	153	24	543	553	1096
Bihar	95.32%	129	11	631	663	1294
HP	96.93%	170	10	502	500	1002
J&K	37.75%	174	22	612	584	1196
NE	97.09%	166	36	508	501	1008
Odisha	95.87%	143	16	552	564	1116

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	92.58%	117	10	418	409	828
Delhi	66.75%	146	8	455	433	887
Mumbai	75.63%	145	8	415	375	790

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_QoS_DSD(90,90)]	Network QoS DCR Temporal Distribution Measure [Network_Connctions with good voice quality, Circuit Switched Voice Quality and VoLTE quality]	Down Link (DL) Packet Drop Rate or DL-PDR	Up Link (UL) Packet Drop Rate or UL-PDR	Point of Interconnection (POI) Congestion (on individual POI) - No. of POIs not meeting the benchmark	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 complaint	Accessibility of call center/ customer care	Percentage of calls answered by the operators (voice to voice) within ninety seconds	Termination / Closure of service	Time taken for refund of deposits after closures			
<=2%	<=2%	=>95%	<=1%	<=2%	<=2%	<=3%	=>95%	<=2%	<=2%	<=0.5	<=0.1%	<=0.1%	98% within 4 weeks	100% within 6 weeks	100% within 1 week of resolution of complaint	=>95%	=>95%	<= 7 days	100% within 60 days				
Andhra Pradesh	AIRTEL	0.09%	0.43%	99.44%	0.25%	0.24%	0.87%	1.14%	96.43%	0.16%	0.16%	0	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	97.14%	94.24%	100.00%	100.00%	
	BSNL	1.32%	1.89%	98.70%	0.66%	0.52%	1.59%	1.75%	98.18%	0.11%	0.29%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.40%	98.18%	100.00%	100.00%	
	RJIL	0.08%	0.26%	99.69%	0.03%	0.00%	0.19%	0.27%	99.95%	0.00%	0.09%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.28%	100.00%	100.00%	100.00%	
	VIL	0.11%	0.70%	99.36%	0.22%	0.30%	1.64%	2.54%	97.78%	0.01%	0.15%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.28%	100.00%	100.00%	100.00%	
Assam	AIRTEL	0.25%	0.97%	99.05%	0.13%	0.40%	1.81%	2.36%	95.97%	0.22%	0.24%	0	0.06%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	96.46%	94.45%	100.00%	100.00%
	BSNL	1.85%	0.65%	98.13%	0.91%	1.86%	1.90%	2.10%	98.21%	1.71%	1.83%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	96.06%	97.35%	100.00%	100.00%	
	RJIL	0.26%	1.10%	99.72%	0.01%	0.00%	0.42%	0.54%	99.95%	0.00%	0.10%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.29%	98.78%	100.00%	100.00%	
	VIL	0.66%	1.87%	99.41%	0.24%	0.58%	1.86%	2.96%	97.66%	0.09%	0.11%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.19%	99.99%	100.00%	100.00%	
Bihar	AIRTEL	0.14%	0.04%	98.22%	0.42%	0.75%	1.54%	1.70%	98.22%	0.53%	0.07%	0	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	95.60%	98.00%	100.00%	100.00%
	BSNL	1.91%	0.00%	96.77%	0.30%	0.29%	1.80%	2.25%	98.60%	0.00%	0.00%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	RJIL	0.13%	0.45%	99.59%	0.01%	0.00%	0.30%	0.44%	99.95%	0.00%	0.10%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.28%	98.97%	100.00%	100.00%	
	VIL	0.17%	0.94%	99.89%	0.12%	0.06%	1.56%	2.27%	99.39%	0.06%	0.19%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.06%	99.97%	100.00%	100.00%	
Delhi	AIRTEL	0.16%	1.77%	99.49%	0.08%	0.16%	1.42%	2.00%	95.06%	0.29%	0.23%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	96.80%	96.00%	100.00%	100.00%
	MTNL	0.06%	0.11%	97.54%	0.14%	0.85%	1.26%	1.42%	98.37%	NA	NA	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.91%	99.26%	100.00%	100.00%	
	RJIL	0.09%	0.37%	99.61%	0.03%	0.00%	0.24%	0.33%	99.94%	0.00%	0.12%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.28%	99.18%	100.00%	100.00%	
	VIL	0.06%	0.26%	99.94%	0.11%	0.16%	1.59%	2.08%	99.42%	0.16%	0.28%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	99.01%	100.00%	100.00%	100.00%	
Gujarat	AIRTEL	0.13%	1.95%	99.45%	0.21%	0.17%	1.56%	1.96%	97.04%	0.11%	0.20%	0	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	97.31%	96.00%	100.00%	100.00%
	BSNL	0.35%	0.42%	97.87%	0.10%	0.51%	1.62%	2.00%	98.30%	0.15%	0.23%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.91%	96.34%	100.00%	100.00%	
	RJIL	0.16%	0.65%	99.70%	0.01%	0.00%	0.13%	0.23%	99.96%	0.00%	0.08%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.33%	98.63%	100.00%	100.00%	
	VIL	0.08%	0.33%	99.56%	0.09%	0.36%	1.71%	2.11%	96.72%	0.13%	0.18%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	99.12%	100.00%	100.00%	100.00%	
Haryana	AIRTEL	0.11%	0.71%	99.59%	0.07%	0.14%	1.43%	1.85%	95.15%	0.16%	0.17%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	95.91%	95.00%	100.00%	100.00%
	BSNL	0.94%	0.42%	99.13%	0.21%	0.47%	1.56%	1.72%	97.77%	0.14%	0.52%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	97.00%	99.98%	100.00%	100.00%	
	RJIL	0.11%	0.48%	99.69%	0.01%	0.00%	0.24%	0.39%	99.96%	0.00%	0.09%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.27%	99.12%	100.00%	100.00%	
	VIL	0.10%	0.73%	99.50%	0.36%	0.50%	1.85%	2.74%	98.22%	0.08%	0.12%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.01%	99.95%	100.00%	100.00%	
Himachal Pradesh	AIRTEL	0.22%	1.58%	99.67%	0.32%	0.30%	1.12%	1.52%	95.07%	0.19%	0.15%	0	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	96.27%	96.00%	100.00%	100.00%
	BSNL	1.91%	0.37%	98.30%	0.58%	1.26%	1.94%	2.14%	97.26%	0.00%	0.00%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	97.50%	97.37%	100.00%	100.00%	
	RJIL	0.32%	0.63%	99.57%	0.03%	0.00%	0.26%	0.50%	99.96%	0.00%	0.08%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.31%	99.14%	100.00%	100.00%	
	VIL	0.59%	1.94%	99.08%	0.56%	0.51%	1.89%	2.90%	95.49%	0.16%	0.20%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	99.70%	99.99%	100.00%	100.00%	
Jammu & Kashmir	AIRTEL	0.17%	1.03%	99.50%	0.08%	0.07%	0.74%	1.10%	97.00%	0.16%	0.14%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	91.88%	91.00%	100.00%	100.00%
	BSNL	1.83%	0.65%	99.01%	0.91%	1.36%	1.93%	2.07%	97.93%	0.01%	0.04%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.00%	99.98%	100.00%	100.00%	
	RJIL	0.12%	0.39%	99.68%	0.01%	0.00%	0.22%	0.35%	99.96%	0.00%	0.07%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.15%	98.98%	100.00%	100.00%	
	VIL	0.47%	1.89%	99.29%	0.14%	0.46%	1.79%	2.63%	97.84%	0.21%	0.17%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.87%	100.00%	100.00%	100.00%	
Karnataka	AIRTEL	0.04%	0.32%	99.63%	0.06%	0.10%	0.92%	1.32%	96.36%	0.16%	0.20%	0	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	95.71%	95.00%	100.00%	100.00%
	BSNL	1.39%	0.52%	98.57%	0.28%	0.30%	1.52%	1.64%	97.86%	0.71%	0.80%	0	0.00%	0.00%	99.76%	100.00%	100.00%	100.00%	96.26%	93.71%	100.00%	100.00%	
	RJIL	0.06%	0.14%	99.69%	0.03%	0.00%	0.18%	0.31%	99.96%	0.00%	0.09%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.57%	98.03%	100.00%	100.00%	
	VIL	0.08%	0.70%	99.70%	0.44%	0.30%	1.82%	2.44%	98.78%	0.10%	0.14%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	98.54%	100.00%	100.00%	100.00%	
Kerala	AIRTEL	0.11%	0.29%	99.77%	0.15%	0.22%	1.32%	2.17%	97.15%	0.14%	0.56%	0	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	95.18%	95.00%	100.00%	100.00%
	BSNL	0.26%	0.19%	98.93%	0.35%	0.50%	1.95%	2.41%	98.40%	0.06%	0.18%	0	0.00%	0.01%	100.00%	100.00%	100.00%	100.00%	97.50%	95.45%	100.00%	100.00%	
	RJIL	0.03%	0.07%	99.73%	0.00%	0.00%	0.12%	0.44%	99.96%	0.00%	0.07%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.58%	97.72%	100.00%	100.00%	
	VIL	0.04%	0.02%	99.74%	0.14%	0.26%	0.48%	0.72%	98.78%	0.06%	0.15%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	99.25%	99.90%	100.00%	100.00%	

Annexure 4.1 (Contd.)

Kolkata	AIRTEL	0.07%	0.00%	99.63%	0.26%	0.24%	1.32%	1.85%	97.41%	0.15%	0.28%	0	0.05%	0.00%	100.00%	100.00%	100.00%	100.00%	95.40%	100.00%	100.00%	
	BSNL	0.22%	0.49%	98.78%	0.11%	0.17%	1.47%	1.61%	97.16%	0.07%	0.29%	0	0.00%	0.00%	99.00%	100.00%	100.00%	100.00%	97.89%	97.12%	100.00%	100.00%
	RJIL	0.01%	0.02%	99.70%	0.00%	0.00%	0.09%	0.25%	99.97%	0.00%	0.05%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.18%	98.72%	100.00%	100.00%
	VIL	0.07%	0.26%	99.87%	0.11%	0.13%	1.28%	1.69%	97.76%	0.10%	0.17%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	99.57%	99.99%	100.00%	100.00%
Madhya Pradesh	AIRTEL	0.12%	0.54%	99.26%	0.21%	0.32%	1.82%	2.33%	96.69%	0.12%	0.22%	0	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	96.58%	100.00%	100.00%
	BSNL	1.27%	0.36%	98.26%	0.51%	1.02%	1.80%	2.02%	98.19%	0.00%	0.00%	0	0.00%	0.01%	100.00%	100.00%	100.00%	100.00%	98.81%	98.60%	100.00%	100.00%
	RJIL	0.26%	1.00%	99.63%	0.01%	0.00%	0.38%	0.50%	99.94%	0.00%	0.11%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.52%	98.74%	100.00%	100.00%
Maharashtra	VIL	0.44%	0.80%	98.82%	0.24%	0.66%	1.67%	2.12%	97.14%	0.23%	0.13%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	95.39%	100.00%	100.00%	100.00%
	AIRTEL	0.10%	0.44%	99.38%	0.22%	0.27%	1.52%	1.81%	96.94%	0.01%	0.25%	0	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	95.67%	100.00%	100.00%
	BSNL	1.69%	0.62%	97.72%	0.39%	0.80%	1.55%	2.38%	96.81%	0.11%	0.19%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	99.91%	95.97%	100.00%	100.00%
	RJIL	0.29%	1.28%	99.67%	0.01%	0.00%	0.27%	0.38%	99.94%	0.00%	0.11%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.54%	98.93%	100.00%	100.00%
Mumbai	VIL	0.15%	0.28%	98.63%	0.48%	0.96%	1.89%	2.86%	96.86%	0.25%	0.13%	0	0.01%	0.00%	99.91%	100.00%	100.00%	100.00%	99.77%	100.00%	100.00%	100.00%
	AIRTEL	0.19%	1.07%	99.37%	0.16%	0.22%	1.56%	1.88%	96.23%	0.20%	0.25%	0	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	97.34%	100.00%	100.00%
	MTNL	0.20%	1.70%	98.00%	0.30%	0.10%	1.97%	2.33%	98.01%	NA	NA	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	99.94%	100.00%	100.00%
	RJIL	0.17%	0.64%	99.62%	0.01%	0.00%	0.15%	0.27%	99.94%	0.01%	0.13%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.50%	99.05%	100.00%	100.00%
North East	VIL	0.06%	0.07%	99.72%	0.07%	0.28%	1.85%	2.60%	98.68%	0.15%	0.22%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	98.79%	99.99%	100.00%	100.00%
	AIRTEL	0.45%	0.91%	98.33%	0.35%	0.95%	1.65%	2.00%	98.13%	0.24%	0.24%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	95.37%	100.00%	100.00%
	BSNL	1.91%	0.61%	97.00%	0.83%	1.56%	1.89%	1.96%	97.00%	0.00%	0.00%	0	0.05%	0.05%	100.00%	100.00%	100.00%	100.00%	96.00%	96.70%	100.00%	100.00%
	RJIL	0.97%	1.13%	99.68%	0.02%	0.00%	0.56%	0.81%	99.94%	0.00%	0.12%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.10%	98.49%	100.00%	100.00%
Odisha	VIL	1.21%	1.41%	99.36%	0.62%	0.27%	1.88%	2.46%	98.41%	0.15%	0.14%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.89%	99.97%	100.00%	100.00%
	AIRTEL	0.03%	0.02%	99.03%	0.16%	0.34%	1.40%	1.66%	97.47%	0.07%	0.19%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	96.69%	100.00%	100.00%
	BSNL	1.25%	0.65%	96.46%	0.61%	1.61%	1.93%	1.95%	96.40%	0.00%	0.00%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	96.36%	98.76%	100.00%	100.00%
	RJIL	0.15%	0.62%	99.67%	0.01%	0.00%	0.26%	0.37%	99.95%	0.00%	0.11%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.30%	99.02%	100.00%	100.00%
Punjab	VIL	0.22%	0.69%	99.85%	0.05%	0.13%	1.64%	2.13%	98.93%	0.03%	0.12%	0	0.03%	0.00%	100.00%	100.00%	100.00%	100.00%	98.68%	99.99%	100.00%	100.00%
	AIRTEL	0.20%	1.42%	99.61%	0.24%	0.20%	1.67%	1.89%	95.66%	0.13%	0.24%	0	0.05%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	96.34%	100.00%	100.00%
	BSNL	0.61%	0.50%	98.85%	0.37%	0.30%	1.78%	2.08%	97.71%	0.00%	0.02%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	95.81%	99.98%	100.00%	100.00%
	RJIL	0.09%	0.33%	99.62%	0.00%	0.00%	0.13%	0.32%	99.96%	0.00%	0.08%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.30%	99.00%	100.00%	100.00%
Rajasthan	VIL	0.08%	0.60%	99.75%	0.28%	0.25%	0.62%	1.15%	99.20%	0.10%	0.22%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	99.55%	100.00%	100.00%	100.00%
	AIRTEL	0.97%	0.69%	99.16%	0.23%	0.50%	0.80%	1.03%	98.30%	0.20%	0.19%	0	0.05%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	97.07%	100.00%	100.00%
	BSNL	0.79%	0.62%	99.02%	0.77%	0.98%	1.53%	2.04%	98.59%	0.00%	0.00%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	96.23%	96.17%	100.00%	100.00%
	RJIL	0.14%	0.62%	99.68%	0.04%	0.00%	0.29%	0.41%	99.96%	0.00%	0.09%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.63%	99.05%	100.00%	100.00%
Tamilnadu including Chennai	VIL	0.53%	1.90%	98.76%	0.36%	0.44%	1.89%	2.35%	96.96%	0.17%	0.25%	0	0.01%	0.00%	100.00%	100.00%	100.00%	100.00%	99.12%	99.99%	100.00%	100.00%
	AIRTEL	0.08%	0.16%	99.78%	0.14%	0.13%	1.15%	1.61%	96.71%	0.12%	0.15%	0	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	96.69%	100.00%	100.00%
	BSNL	0.97%	0.44%	99.40%	0.33%	0.36%	1.80%	2.74%	98.12%	0.00%	0.00%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.18%	94.54%	100.00%	100.00%
	RJIL	0.09%	0.26%	99.73%	0.01%	0.00%	0.15%	0.26%	99.96%	0.00%	0.08%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.45%	98.09%	100.00%	100.00%
Uttar Pradesh (East)	VIL	0.25%	1.22%	99.36%	0.74%	0.62%	1.55%	2.04%	98.05%	0.09%	0.15%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	99.38%	100.00%	100.00%	100.00%
	AIRTEL	0.26%	1.98%	99.32%	0.37%	0.71%	1.08%	1.32%	95.45%	1.45%	0.86%	0	0.04%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	95.28%	100.00%	100.00%
	BSNL	1.18%	0.57%	99.39%	0.84%	0.12%	1.52%	2.27%	96.77%	0.16%	0.49%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	95.54%	99.98%	100.00%	100.00%
	RJIL	0.30%	1.39%	99.63%	0.00%	0.00%	0.33%	0.51%	99.96%	0.00%	0.09%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.46%	99.02%	100.00%	100.00%
Uttar Pradesh (West)	VIL	0.19%	0.55%	99.57%	0.41%	0.13%	1.85%	2.45%	97.88%	0.13%	0.28%	0	0.00%	0.01%	100.00%	100.00%	100.00%	100.00%	99.40%	99.99%	100.00%	100.00%
	AIRTEL	0.22%	1.31%	99.75%	0.19%	0.17%	1.50%	2.08%	95.06%	0.20%	0.15%	0	0.05%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	96.17%	100.00%	100.00%
	BSNL	1.83%	0.64%	97.79%	0.69%	1.12%	1.75%	2.08%	96.47%	0.00%	0.01%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	96.24%	97.50%	100.00%	100.00%
	RJIL	0.19%	1.01%	99.70%	0.02%	0.00%	0.33%	0.48%	99.96%	0.00%	0.08%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.44%	99.02%	100.00%	100.00%
West Bengal	VIL	0.14%	0.49%	99.44%	0.39%	0.56%	1.82%	2.44%	97.33%	0.09%	0.18%	0	0.01%	0.01%	100.00%	100.00%	100.00%	100.00%	99.09%	99.98%	100.00%	100.00%
	AIRTEL	0.24%	1.78%	98.97%	0.25%	0.44%	1.97%	2.63%	97.10%	0.42%	0.49%	0	0.07%	0.00%	100.00%	100.00%	100.00%	100.00%	100.00%	95.16%	100.00%	100.00%
	BSNL	0.56%	0.65%	95.12%	0.93%	1.79%	1.85%	2.06%	96.32%	0.33%	1.56%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.00%	98.17%	100.00%	100.00%
	RJIL	0.07%	0.15%	99.71%	0.01%	0.00%	0.35%	0.52%	99.95%	0.00%	0.11%	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.01%	98.43%	100.00%	100.00%
West Bengal	VIL	0.12%	0.58%	99.83%	0.08%	0.16%	1.89%	2.81%	97.70%	0.10%	0.18%	0	0.02%	0.00%	100.00%	100.00%	100.00%	100.00%	98.16%	99.98%	100.00%	100.00%

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

LSA Name	TSP Name	Faults incidences (No. of faults/100 Subs/month)	Fault Repair				Mean Time to Repair (MTTR)	POI Point of Interconnection (POI) Congestion (No. of Pops not meeting benchmark)	Metering and Billing					Response time to the customer for assistance		Termination / closure of service	
			faults repaired by next working day - Urban	faults repaired within 5 days - Urban	faults repaired by next working day - Rural and hilly areas	faults repaired within 7 days - Rural and hilly areas			Metering and Billing Credibility - Postpaid	Metering and Billing Credibility - Prepaid	Resolution of billing/ charging/ validity complaints within 4 weeks	Resolution of billing/ charging/ validity complaints within 6 weeks	Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution of complaints- within 1 week of resolution of complaint	Accessibility of call center/ customer care	Percentage of calls answered by the operators (voice to voice) within ninety seconds	Termination / Closure of service	Time taken for Refund of deposits after closures- within 60 days
Andhra Pradesh	AIRTEL	0.69	89.88%	100.00%	100.00%	100.00%	9.58	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	96.04%	100.00%	100.00%
	APSF	5	92.43%	100.00%	82.32%	100.00%	7.54	0	0.00%	0.00%	99.45%	100.00%	100.00%	98.00%	100.00%	100.00%	100.00%
	BSNL	5	98.00%	100.00%	97.00%	100.00%	5	0	0.00%	0.00%	100.00%	100.00%	100.00%	95.48%	91.75%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	96.28%	100.00%	100.00%	100.00%
	TATA	4.64	86.21%	100.00%	100.00%	100.00%	3.41	0	0.00%	NA	100.00%	100.00%	100.00%	98.13%	99.81%	100.00%	100.00%
Assam	VIL	0.1	100.00%	100.00%	NA	NA	2.21	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.36%	100.00%	100.00%
	BSNL	4	93.00%	100.00%	87.00%	100.00%	4	0	0.00%	0.00%	100.00%	100.00%	100.00%	96.14%	95.46%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	97.14%	97.62%	100.00%	100.00%
	VIL	0.7	100.00%	100.00%	NA	NA	2.48	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Bihar	AIRTEL	0.96	88.06%	100.00%	100.00%	100.00%	7.89	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.58%	100.00%	100.00%
	BSNL	5	93.00%	100.00%	87.00%	100.00%	5	0	0.01%	0.00%	98.00%	100.00%	100.00%	97.87%	97.65%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	98.37%	100.00%	100.00%	100.00%
	TATA	0.53	100.00%	100.00%	100.00%	100.00%	0.59	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.97	100.00%	100.00%	NA	NA	5	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA
Delhi	AIRTEL	0.61	95.64%	100.00%	100.00%	100.00%	9.86	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.31%	100.00%	100.00%
	MTNL	1.5	73.89%	96.78%	NA	NA	7.1	0	0.00%	NA	100.00%	100.00%	100.00%	98.16%	99.34%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	98.32%	99.45%	100.00%	100.00%
	TATA	3.41	94.98%	100.00%	100.00%	100.00%	2.55	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.19	100.00%	100.00%	NA	NA	8.41	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Gujarat	AIRTEL	0.1	87.10%	100.00%	100.00%	100.00%	8.99	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.61%	100.00%	100.00%
	BSNL	5	96.00%	100.00%	93.00%	100.00%	4	0	0.01%	0.00%	100.00%	100.00%	100.00%	98.04%	97.06%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	98.73%	100.00%	100.00%	100.00%
	TATA	1.66	90.40%	100.00%	100.00%	100.00%	2.71	0	0.00%	NA	100.00%	100.00%	100.00%	98.30%	100.00%	100.00%	100.00%
	VIL	0.09	100.00%	100.00%	NA	NA	6.26	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Haryana	AIRTEL	0.76	93.95%	100.00%	100.00%	100.00%	6.02	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.64%	100.00%	100.00%
	BSNL	4	88.00%	100.00%	90.00%	100.00%	5	0	0.01%	0.00%	100.00%	100.00%	100.00%	96.62%	96.09%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	100.00%	100.00%	100.00%	100.00%
	TATA	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	1.75	100.00%	100.00%	NA	NA	5.18	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA
Himachal Pradesh	AIRTEL	1	92.16%	100.00%	100.00%	100.00%	7.77	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	96.15%	100.00%	100.00%
	BSNL	6	92.00%	100.00%	93.00%	100.00%	7	0	0.00%	0.00%	98.92%	100.00%	100.00%	97.25%	96.78%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	98.36%	100.00%	100.00%	100.00%
	TATA	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0	100.00%	100.00%	NA	NA	0	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA
Jammu & Kashmir	AIRTEL	0.31	90.82%	100.00%	100.00%	100.00%	8.58	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.73%	100.00%	100.00%
	BSNL	5	97.00%	100.00%	87.00%	100.00%	7	0	0.01%	0.00%	98.00%	100.00%	100.00%	96.83%	95.38%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	98.21%	100.00%	100.00%	100.00%
	VIL	0	100.00%	100.00%	NA	NA	0	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA
	AIRTEL	0.71	89.33%	100.00%	100.00%	100.00%	9.92	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	96.59%	100.00%	100.00%
Karnataka	BSNL	7	99.00%	100.00%	98.00%	100.00%	8	0	0.09%	0.00%	98.00%	100.00%	100.00%	95.50%	92.16%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	98.57%	100.00%	100.00%	100.00%
	TATA	0.26	95.41%	100.00%	100.00%	100.00%	2.04	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.09	100.00%	100.00%	NA	NA	7.49	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA

Annexure 4.2 (Contd.)

Kerala	AIRTEL	0.63	91.22%	100.00%	100.00%	100.00%	9.71	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	95.18%	100.00%	100.00%
	BSNL	4	92.00%	100.00%	92.00%	100.00%	7	0	0.02%	0.00%	100.00%	100.00%	100.00%	83.54%	75.44%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	97.12%	100.00%	100.00%	100.00%
	TATA	0.03	100.00%	100.00%	100.00%	100.00%	3.38	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.38	100.00%	100.00%	NA	NA	3.4	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Kolkata	AIRTEL	0.38	92.69%	100.00%	100.00%	100.00%	8.4	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.65%	100.00%	100.00%
	BSNL	7	90.00%	100.00%	NA	NA	7	0	0.00%	0.00%	99.00%	100.00%	100.00%	98.50%	98.42%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	98.12%	100.00%	100.00%	100.00%
	TATA	1.3	99.39%	100.00%	100.00%	100.00%	1.18	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Madhya Pradesh	VIL	0.25	100.00%	100.00%	NA	NA	8.52	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	0.69	85.03%	100.00%	100.00%	100.00%	1.75	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.45%	100.00%	100.00%
	BSNL	6	88.00%	100.00%	88.00%	100.00%	8	0	0.05%	0.00%	100.00%	100.00%	100.00%	97.18%	95.79%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	97.62%	100.00%	100.00%	100.00%
	TATA	0.21	100.00%	100.00%	100.00%	100.00%	0.67	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Maharashtra	VIL	0.08	100.00%	100.00%	NA	NA	7.38	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	0.1	86.68%	100.00%	100.00%	100.00%	8.94	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.22%	100.00%	100.00%
	BSNL	6	88.00%	100.00%	76.00%	100.00%	8	0	0.01%	0.00%	98.00%	100.00%	100.00%	97.56%	96.75%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	97.27%	100.00%	100.00%	100.00%
	TATA	2.26	92.46%	100.00%	100.00%	100.00%	0.91	0	0.00%	NA	100.00%	100.00%	100.00%	99.43%	100.00%	100.00%	100.00%
Mumbai	VIL	0.38	100.00%	100.00%	NA	NA	3.59	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	0.06	88.07%	100.00%	100.00%	100.00%	9.35	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	99.10%	100.00%	100.00%
	MTNL	3.3	38.30%	55.90%	0.00%	0.00%	197.44	0	0.00%	NA	99.60%	100.00%	100.00%	99.92%	95.58%	99.59%	55.39%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	98.51%	100.00%	100.00%	100.00%
	TATA	4.91	93.30%	100.00%	100.00%	100.00%	1.42	0	0.00%	NA	100.00%	100.00%	100.00%	98.38%	99.89%	100.00%	100.00%
North East	VIL	0.07	100.00%	100.00%	NA	NA	2.29	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	BSNL	4	94.00%	100.00%	98.00%	100.00%	6	0	0.00%	0.00%	98.00%	100.00%	100.00%	97.70%	97.70%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	100.00%	100.00%	100.00%	100.00%
	VIL	0	100.00%	100.00%	NA	NA	0	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA
Odisha	AIRTEL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.10%	100.00%	100.00%
	BSNL	4	91.00%	100.00%	86.00%	100.00%	7	0	0.00%	0.00%	99.00%	100.00%	100.00%	98.17%	98.17%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	97.37%	100.00%	100.00%	100.00%
	TATA	3.35	97.50%	100.00%	100.00%	100.00%	1.58	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VIL	0.33	100.00%	100.00%	NA	NA	5.3	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Punjab	AIRTEL	0.96	89.09%	100.00%	100.00%	100.00%	9.86	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.87%	100.00%	100.00%
	BSNL	6	91.00%	100.00%	91.00%	100.00%	8	0	0.00%	0.00%	98.00%	100.00%	100.00%	96.59%	98.17%	100.00%	100.00%
	QTL	6.2	91.00%	100.00%	100.00%	100.00%	7.85	0	0.01%	0.00%	100.00%	100.00%	100.00%	98.02%	96.27%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	98.45%	100.00%	100.00%	100.00%
	TATA	0.19	100.00%	100.00%	100.00%	100.00%	2.1	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	VMIPL	0	100.00%	100.00%	NA	NA	4.57	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
Rajasthan	AIRTEL	0.73	85.72%	100.00%	100.00%	100.00%	4.52	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.78%	100.00%	100.00%
	BSNL	6	95.00%	100.00%	93.00%	100.00%	6	0	0.00%	0.00%	98.50%	100.00%	100.00%	98.09%	97.17%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	98.09%	100.00%	100.00%	100.00%
	TATA	2.49	96.55%	100.00%	100.00%	100.00%	0.84	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Tamilnadu including Chennai	VIL	0.19	100.00%	100.00%	NA	NA	2.2	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	0.84	88.53%	100.00%	100.00%	100.00%	9.83	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.90%	100.00%	100.00%
	BSNL	4	96.00%	100.00%	93.00%	100.00%	6	0	0.04%	0.00%	100.00%	100.00%	100.00%	90.14%	84.04%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	97.32%	99.49%	100.00%	100.00%
	TATA	0.18	86.21%	100.00%	100.00%	100.00%	6.34	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Uttar Pradesh (East)	VIL	0.52	100.00%	100.00%	NA	NA	4.2	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	1.09	92.50%	100.00%	100.00%	100.00%	9.03	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	97.37%	100.00%	100.00%
	BSNL	6	87.00%	100.00%	86.00%	100.00%	7	0	0.00%	0.00%	99.00%	100.00%	100.00%	97.30%	96.64%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	97.93%	100.00%	100.00%	100.00%
	TATA	0.7	100.00%	100.00%	100.00%	100.00%	0.48	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Uttar Pradesh (West)	VIL	0.19	100.00%	100.00%	NA	NA	2.8	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	1	92.79%	100.00%	100.00%	100.00%	3.49	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	98.42%	100.00%	100.00%
	BSNL	6	92.00%	100.00%	89.00%	100.00%	6	0	0.05%	0.00%	99.00%	100.00%	100.00%	98.36%	97.83%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	96.88%	100.00%	100.00%	100.00%
	TATA	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
West Bengal	VIL	1.34	100.00%	100.00%	NA	NA	3.19	0	NA	NA	NA	NA	NA	100.00%	100.00%	100.00%	NA
	AIRTEL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	100.00%	100.00%	100.00%	100.00%	96.71%	100.00%	100.00%
	BSNL	4	88.00%	100.00%	91.00%	100.00%	4	0	0.01%	0.00%	98.00%	100.00%	100.00%	99.15%	98.98%	100.00%	100.00%
	RJIL	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	0.00%	NA	NA	NA	97.56%	100.00%	100.00%	100.00%
	TATA	0	100.00%	100.00%	100.00%	100.00%	0	0	0.00%	NA	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
VIL	0.67	100.00%	100.00%	NA	NA	7.21	0	NA	NA	NA	NA	NA	100.00%	100.00%	NA	NA	

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

Sl. No.	Service Provider	LSA	Service Provisioning / Activation Time	Fault Repair/ Restoration Time		Billing Performance			Response Time to the Customer for assistance		Bandwidth utilisation/ throughput				Service availability /uptime (for all users) in %age	Packet loss (for wired broadband access) in %age	Network latency (for wired broadband access)		
			%age of connections provided within 15 days of registration of demand	% of faults repaired by next working day (>90%)	% of faults repaired within 3 working day	%age of bills disputed	%age of billing complaints resolved within 4 weeks	%age of cases to whom refund of deposits is made within 60 days of closures	%age of calls answered by operator (Voice to voice) within 60 sec	%age of calls answered by operator (Voice to voice) within 90 sec	No. of intra network links having Bandwidth utilisation >90% during peak hours (TCBH)	No. of Upstream links for International connectivity having bandwidth utilisation >90% during peak hours (TCBH)	% International bandwidth utilization during peak hours (TCBH) (Enclose MRTG) <90%	Broadband Connection Speed available (download) from ISP node to user			User reference point at POP/ISP Gateway node to (IGSP/NIXI)	User reference point at ISP Gateway node to International nearest NAP port abroad (terrestrial)	User reference point at ISP Gateway node to International nearest NAP port abroad (satellite)
			100%	>90%	=99%	<2%	100% within 4 weeks	100% within 60 days	>60%	>80%	0	0	<90%	>80%			>98%	<1%	<120 ms
1	ADN Broadband Pvt. Ltd.	Delhi	100.00	99.26	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	67.30	92.00	99.55	0.53	2.00	150.00	0.00
2	Aerpace Communications Pvt. Ltd.*	Maharashtra	100.00	91.00	100.00	0.00	100.00	100.00	81.00	92.00	0.00	0.00	87.00	99.00	100.00	0.99	1.00	225.00	265.00
		Mumbai	100.00	93.00	100.00	0.00	100.00	100.00	82.00	90.00	0.00	0.00	88.00	99.00	100.00	0.98	1.00	47.00	260.00
3	Airfiber Networks Pvt. Ltd.	Karnataka	100.00	96.17	99.90	0.00	100.00	100.00	91.50	99.00	0.00	0.00	70.56	99.00	100.00	0.50	23.00	246.00	0.00
		Tamilnadu	100.00	95.33	99.90	0.00	100.00	100.00	91.50	99.00	0.00	0.00	69.35	99.00	100.00	0.50	22.00	245.00	0.00
4	Airtel Cable and Datacom Pvt.Ltd.	Maharashtra	100.00	93.62	100.00	0.00	100.00	100.00	98.81	100.00	0.00	0.00	5.17	100.00	100.00	0.00	2.00	220.00	NA
		Mumbai	100.00	96.71	99.59	0.00	100.00	100.00	93.55	100.00	0.00	0.00	27.86	100.00	100.00	0.00	8.00	220.00	NA
5	Alliance Broadband Services Pvt. Ltd.	All India	100.00	91.15	100.00	0.00	100.00	100.00	83.33	100.00	0.00	0.00	59.28	98.13	99.37	0.00	2.00	4.00	1.00
6	Andhra Pradesh State Fiber Net Limited	Andhra Pradesh	100.00	94.22	100.00	0.00	100.00	100.00	83.89	93.30	0.00	0.00	74.03	89.06	100.00	0.49	86.00	216.00	429.00
7	ANI Broadband Service Pvt. Ltd.*	All India	100.00	99.00	100.00	0.00	100.00	100.00	98.00	100.00	0.00	0.00	88.00	100.00	99.00	0.40	20.00	288.00	0.00
8	Antariksh Softech Pvt. Ltd.	Maharashtra	100.00	92.00	99.00	0.00	100.00	100.00	87.00	89.33	0.00	0.00	0.00	90.00	99.00	0.10	24.00	0.00	0.00
		Mumbai	100.00	92.00	99.00	0.00	100.00	100.00	87.00	89.33	0.00	0.00	0.00	90.00	99.00	0.10	24.00	0.00	0.00
9	Apple Broadband Services Pvt. Ltd.	Andhra Pradesh	100.00	91.47	100.00	0.00	100.00	100.00	83.67	100.00	0.00	0.00	87.00	82.00	98.89	0.00	3.00	22.00	0.00
10	Asianet Satellite Communications Ltd.	All India	100.00	90.52	99.88	0.54	100.00	100.00	61.40	81.27	0.00	0.00	70.88	92.00	99.87	0.82	56.00	229.00	0.00
11	Atria Convergence Technologies Ltd.	All India	100.00	94.56	99.21	1.19	100.00	100.00	77.30	82.00	0.00	0.00	39.77	97.57	100.00	0.00	1.33	26.70	0.00
12	Bharat Sanchar Nigam Ltd.	All India	100.00	94.28	99.77	0.10	100.00	100.00	87.44	90.61	0.00	0.00	59.50	94.31	99.41	0.50	44.30	95.20	NA
13	Bharti Airtel Ltd.	All India	100.00	92.55	99.78	0.00	100.00	100.00	93.06	95.79	0.00	0.00	40.93	100.00	98.17	0.00	47.54	50.89	0.00
14	BlueLotus Support Services Pvt.Ltd. (formerly 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	99.50	0.01	24.30	240.00	0.00
15	Candor Infosolution Pvt. Ltd.	Bihar	100.00	99.00	100.00	0.24	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
		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
		Haryana	100.00	99.00	100.00	0.97	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
16	City Online Services Ltd	Andhra Pradesh	100.00	99.00	99.00	0.00	100.00	100.00	98.00	99.00	0.00	0.00	59.28	99.00	99.86	0.30	15.00	238.00	0.00
		Karnataka	100.00	98.00	99.00	0.00	100.00	100.00	95.50	98.00	0.00	0.00	77.50	97.87	99.86	0.57	18.00	280.00	0.00
17	D-ATUM Vilcom Pvt. Ltd.*	All India	100.00	100.00	100.00	0.00	100.00	100.00	95.00	100.00	0.00	0.00	0.00	98.00	100.00	0.10	20.00	0.00	0.00
18	DEN Broadband Limited	All India	100.00	95.92	99.40	0.00	100.00	100.00	85.35	97.77	0.00	0.00	71.28	93.00	99.73	0.62	80.00	329.00	0.00
19	Digital Network Associates Pvt. Ltd.	Maharashtra	100.00	90.98	99.28	0.00	100.00	100.00	72.09	86.47	0.00	0.00	80.00	83.00	99.86	0.20	4.00	255.00	600.00
		Mumbai	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00
20	DL GPL Broadband Pvt. Ltd.	Gujarat	100.00	93.00	99.67	0.00	100.00	100.00	77.33	89.00	0.00	0.00	86.00	90.00	99.55	0.00	15.00	300.00	0.00
		Maharashtra	100.00	94.66	100.00	0.00	100.00	100.00	85.66	86.00	0.00	0.00	86.00	90.00	99.59	0.00	15.00	300.00	0.00
21	DNA Infotel Pvt Ltd	Maharashtra	100.00	90.98	99.29	0.00	100.00	100.00	72.04	86.44	0.00	0.00	80.00	83.00	99.86	0.90	4.00	255.00	600.00
22	Dwan Supports Pvt. Ltd.	All India	100.00	95.67	100.00	0.00	100.00	100.00	91.00	95.33	0.00	0.00	85.67	95.33	99.86	0.04	20.00	168.00	460.00
23	ESTO BROADBAND Pvt. Ltd.	All India	100.00	98.66	100.00	0.00	100.00	100.00	99.00	100.00	0.00	0.00	70.07	90.00	99.21	0.00	40.00	100.00	720.00
24	Ethernet Xpress(I) Pvt. Ltd.	Maharashtra	100.00	97.42	99.73	0.15	100.00	100.00	89.33	94.00	0.00	0.00	20.00	99.00	100.00	0.10	30.00	300.00	650.00
25	Excell Media Pvt. Ltd.	Andhra Pradesh	100.00	95.15	99.53	0.00	100.00	100.00	95.95	97.44	0.00	0.00	59.23	97.60	99.23	0.50	6.33	250.00	0.00
		Karnataka	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.00	0.00	0.00	0.00

Annexure 4.3 (Contd.)

26	Excitel Broadband Pvt. Ltd.	All India	100.00	91.37	99.67	0.00	100.00	100.00	63.05	83.38	0.00	0.00	77.97	100.00	99.86	0.00	4.00	199.00	0.00
27	FiberValley Communications Pvt. Ltd.*	Gujarat	100.00	90.28	99.11	0.00	100.00	100.00	99.68	100.00	0.00	0.00	87.50	98.82	99.86	0.41	80.00	275.00	0.00
28	Five Internet Solutions Pvt. Ltd.	Haryana	100.00	99.00	99.00	0.00	100.00	100.00	86.00	93.66	0.00	0.00	86.00	95.00	99.35	0.00	30.00	100.00	680.00
		Punjab	100.00	99.00	99.00	0.00	100.00	100.00	86.00	93.66	0.00	0.00	72.00	95.00	99.35	0.00	30.00	100.00	680.00
29	Five Net Service Provider Pvt. Ltd.*	Madhya Pradesh	100.00	99.00	99.00	0.00	100.00	100.00	86.00	93.66	0.00	0.00	72.00	95.00	99.35	0.00	30.00	100.00	680.00
30	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	38.00	100.00	99.86	0.60	2.60	242.00	0.00
31	Fusionnet Web Services Pvt. Ltd.	All India	100.00	97.05	99.68	0.00	100.00	100.00	93.80	95.00	0.00	0.00	67.05	100.00	100.00	0.00	3.00	250.00	0.00
32	Gazon Communications India Limited*	Maharashtra	100.00	98.50	100.00	0.00	100.00	100.00	95.90	99.90	0.00	0.00	52.00	98.00	99.50	0.95	2.00	0.00	NA
33	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	98.90	0.00	1.00	48.00	80.00
34	GTPL Broadband Pvt. Ltd.	All India	100.00	92.12	99.39	0.00	100.00	100.00	94.36	96.56	0.00	0.00	48.18	94.00	99.19	0.00	11.00	300.00	0.00
35	GTPL KCBPL Broadband Private Limited	Kolkata	100.00	97.34	100.00	0.00	100.00	100.00	90.26	90.73	0.00	0.00	80.00	98.01	100.00	0.00	10.00	250.00	310.00
		Odisha	100.00	100.00	100.00	0.00	100.00	100.00	90.26	90.73	0.00	0.00	80.00	98.00	100.00	0.00	10.00	250.00	310.00
		West Bengal	100.00	99.75	100.00	0.00	100.00	100.00	89.87	90.13	0.00	0.00	80.00	98.01	100.00	0.00	10.00	250.00	310.00
36	Hathway Cable & Datacom Pvt. Ltd.	All India	100.00	92.68	99.20	1.14	100.00	100.00	92.63	93.19	0.00	0.00	77.51	90.00	99.73	0.24	8.00	57.00	0.00
37	Honesty Net Solutions (I) Pvt Ltd	All India	100.00	94.33	100.00	0.00	100.00	100.00	69.00	100.00	0.00	0.00	0.00	95.00	99.83	0.02	0.00	66.00	0.00
38	Honeycomb Telnet Private Limited	All India	100.00	91.00	99.00	0.00	100.00	100.00	87.67	91.33	0.00	0.00	0.00	90.00	99.00	0.10	24.00	0.00	0.00
39	Indinet Service Pvt. Ltd	All India	100.00	92.00	100.00	0.00	100.00	100.00	83.00	89.67	0.00	0.00	86.28	94.67	98.82	0.50	56.00	252.00	NA
40	Infocus Networks Pvt. Ltd.	Mumbai	100.00	96.71	100.00	0.00	100.00	100.00	95.90	99.90	0.00	0.00	78.00	98.00	99.38	0.95	1.00	0.00	NA
41	Instanet Technologies Pvt. Ltd.	Maharashtra	100.00	96.10	100.00	0.11	100.00	100.00	74.52	86.22	0.00	0.00	63.00	90.00	100.00	0.00	4.00	255.00	0.00
42	Intech Online Pvt. Ltd.	Maharashtra	100.00	90.70	99.17	0.98	100.00	100.00	99.79	99.79	0.00	0.00	29.39	88.33	99.86	0.07	15.00	89.33	455.00
		Mumbai	100.00	90.54	99.35	0.66	100.00	100.00	99.69	99.70	0.00	0.00	41.86	88.33	99.86	0.04	1.00	76.00	450.00
43	Intermedia Cable Communication Pvt Ltd	Maharashtra	100.00	93.17	99.33	0.00	100.00	100.00	90.50	93.03	0.00	0.00	81.83	92.67	99.32	0.00	72.00	316.00	0.00
44	Ishan Netsol Pvt Ltd	All India	100.00	91.09	100.00	0.00	100.00	100.00	67.78	81.00	0.00	0.00	72.17	91.00	98.65	0.00	100.00	225.00	0.00
45	Juweriyah Networks Pvt. Ltd.	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	79.00	99.00	100.00	0.00	1.00	47.00	80.00
46	K NET Solutions Private Limited	Tamilnadu	100.00	94.47	99.32	0.00	100.00	100.00	90.67	91.45	0.00	0.00	0.00	100.00	99.82	0.00	10.35	255.63	0.00
47	Kerala Vision Broad Band Ltd.	All India	100.00	91.27	99.00	0.00	100.00	100.00	83.42	89.16	0.00	0.00	38.14	99.00	99.40	0.00	16.00	265.66	0.00
48	Kings Broadband Pvt. Ltd	Kerala	100.00	98.33	100.00	0.00	100.00	100.00	90.00	96.66	0.00	0.00	79.60	95.60	99.82	0.10	30.00	310.00	650.00
49	Mahanagar Telephone Nigam Ltd.	All India	96.36	57.29	70.14	0.00	100.00	76.53	95.29	97.43	0.00	0.00	40.94	89.70	99.19	0.50	35.81	252.90	0.00
50	Meghbela Cable & Broadband Services (P) Ltd	All India	100.00	95.00	100.00	1.56	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
51	Microscan Infocommtech Private Limited	Maharashtra	100.00	96.95	99.80	0.00	100.00	100.00	100.00	100.00	0.00	0.00	16.47	100.00	100.00	0.00	2.00	220.00	NA
		Mumbai	100.00	94.55	99.57	0.00	100.00	100.00	100.00	100.00	0.00	0.00	24.22	100.00	100.00	0.00	8.00	220.00	NA
52	Multicraft Digital Technologies Private Limited	All India	100.00	99.37	100.00	0.00	100.00	100.00	99.00	99.00	0.00	0.00	89.33	92.00	100.00	0.00	116.00	0.00	0.00
53	Net 9 Fibernet Pvt. Ltd. (formerly Net 9 Online Hathway Pvt. Ltd.)	Mumbai	100.00	97.52	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	87.94	90.00	99.68	0.34	94.33	308.33	0.00
54	Netplus Broadband Services Pvt. Ltd	All India	100.00	100.00	100.00	1.60	100.00	100.00	89.05	94.49	0.00	0.00	83.03	96.12	100.00	0.10	44.33	197.00	0.00
55	Nuron Networks Private Limited	Karnataka	100.00	90.76	99.00	0.00	100.00	100.00	83.00	87.00	0.00	0.00	0.00	90.00	100.00	0.10	16.00	23.00	21.00
56	ONEOTT ENTERTAINMENT LTD	All India	100.00	97.00	99.00	1.24	100.00	100.00	95.00	95.00	0.00	0.00	68.56	100.00	100.00	0.50	1.03	63.00	0.00
57	Pacenet Meghbela Broadband Pvt. Ltd.	Kolkata	100.00	95.00	100.00	1.70	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
58	Paradise Telecom Pvt. Ltd.	Maharashtra	100.00	100.00	100.00	0.16	100.00	100.00	65.23	80.73	0.00	0.00	63.00	90.00	100.00	0.00	4.00	255.00	0.00
59	Pioneer Elabs Limited	All India	100.00	90.50	99.19	0.73	100.00	100.00	74.20	86.18	0.00	0.00	0.00	90.20	100.00	0.87	92.00	320.66	725.00
60	Quadrant Televentures Ltd.	All India	100.00	93.20	99.51	0.43	100.00	100.00	90.87	94.31	0.00	0.00	79.35	100.00	100.00	0.00	18.00	251.00	0.00

Annexure 4.3 (Contd.)

61	Quest Consultancy Pvt. Ltd.	Gujarat	100.00	99.00	100.00	0.00	100.00	100.00	99.00	99.00	0.00	0.00	70.00	99.00	99.49	0.30	23.00	56.00	0.00
62	R.G. Technosolutions Pvt. Ltd.*	Uttar Pradesh (East)	100.00	92.22	99.75	0.00	100.00	100.00	79.33	98.25	0.00	0.00	13.32	98.33	99.77	0.33	89.00	330.00	252.00
63	Radinet Info Solutions Pvt Ltd	Madhya Pradesh	100.00	92.68	100.00	0.00	100.00	100.00	95.52	99.23	0.00	0.00	74.24	90.00	99.59	0.00	20.00	300.00	400.00
		Maharashtra	100.00	100.00	100.00	0.00	100.00	100.00	96.25	99.58	0.00	0.00	74.24	90.00	99.59	0.00	20.00	300.00	400.00
		Rajasthan	100.00	93.59	99.36	0.00	100.00	100.00	96.34	99.18	0.00	0.00	74.24	90.00	99.59	0.00	20.00	300.00	400.00
		Uttar Pradesh (West)	100.00	100.00	100.00	0.00	100.00	100.00	96.79	99.10	0.00	0.00	74.24	90.00	99.59	0.00	20.00	300.00	400.00
64	RailTel Corporation of India Ltd.	All India	100.00	98.00	100.00	0.00	100.00	100.00	97.33	100.00	0.00	0.00	44.42	100.00	99.86	0.87	90.00	320.00	0.00
65	Rainbow Communications India Private Limited	Tamilnadu	100.00	100.00	99.00	0.00	100.00	100.00	75.00	90.00	0.00	0.00	0.00	95.00	99.59	0.50	14.00	275.00	0.00
66	Rajesh Digital & Datacom Pvt. Ltd.	Mumbai	100.00	99.00	100.00	0.00	100.00	100.00	98.00	98.00	0.00	0.00	0.00	95.00	99.86	0.00	46.00	250.00	500.00
67	Readylink Internet Services Limited	Tamilnadu	100.00	99.00	100.00	0.46	100.00	100.00	91.00	92.00	0.00	0.00	67.00	82.00	100.00	0.00	23.00	85.00	0.00
68	Reliance Jio Infocomm Ltd	All India	100.00	96.15	99.68	0.00	100.00	100.00	91.55	95.49	0.00	0.00	55.55	100.00	99.98	0.04	21.31	70.66	NA
69	RI Networks Pvt Ltd	All India	100.00	97.22	99.54	0.00	100.00	100.00	77.44	81.86	0.00	0.00	78.20	100.00	100.00	0.50	50.00	300.00	300.00
70	Shree Omkar Infocom Pvt. Ltd.	Maharashtra	100.00	98.00	100.00	0.00	100.00	100.00	95.00	98.00	0.00	0.00	72.00	98.00	100.00	0.50	2.00	125.00	550.00
71	Shyam Spectra Private Limited	All India	100.00	96.06	99.10	0.44	100.00	100.00	87.33	89.67	0.00	0.00	22.89	97.33	98.63	0.00	4.50	0.00	NA
72	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
73	Siliguri Internet & Cable TV Pvt. Ltd.*	West Bengal	100.00	97.43	100.00	0.13	100.00	100.00	73.66	96.66	0.00	0.00	75.12	94.00	100.00	0.83	85.00	300.00	0.00
74	SITI Broadband Services Pvt. Ltd.	All India	100.00	91.47	99.25	0.00	100.00	100.00	77.58	87.41	0.00	0.00	73.57	95.00	99.50	0.90	3.00	96.00	0.00
75	Snet Networks Pvt. Ltd.	Mumbai	100.00	95.00	99.00	0.00	100.00	100.00	70.00	81.00	0.00	0.00	85.00	85.00	99.31	0.50	0.00	0.00	0.00
76	Specific Net Pvt. Ltd	Maharashtra	100.00	98.27	100.00	0.00	100.00	100.00	79.08	92.00	0.00	0.00	79.04	93.14	98.99	0.56	85.00	68.65	NA
77	Spiderlink Networks Pvt. Ltd.	Rajasthan	100.00	94.40	99.53	0.00	100.00	100.00	73.32	83.36	0.00	0.00	70.00	98.00	100.00	0.00	30.00	225.00	0.00
78	Sri Sai Communication And Internet Pvt.Ltd.	All India	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	74.05	90.00	99.59	0.00	20.00	260.00	0.00
79	Sristi Sanchar Webnet Limited	Kolkata	100.00	96.50	100.00	0.00	100.00	100.00	90.00	100.00	0.00	0.00	80.93	90.46	99.09	0.00	60.00	208.00	199.00
80	Swiftmail Communications Ltd.	All India	100.00	95.00	100.00	0.00	100.00	100.00	70.00	90.00	0.00	0.00	0.00	90.00	99.03	0.10	0.00	80.00	100.00
81	Tachyon Communications Private Limited	Uttar Pradesh (East)	100.00	98.00	100.00	1.94	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
82	Tata Play Broadband Private Limited (formerly Tata Sky Broadband Pvt.Ltd.)	All India	100.00	93.02	99.34	0.00	100.00	100.00	89.44	90.94	0.00	0.00	26.93	100.00	99.98	0.00	1.00	0.00	0.00
83	Tata Teleservices Limited	Andhra Pradesh	100.00	90.13	99.20	0.01	100.00	100.00	100.00	100.00	0.00	0.00	64.14	95.93	99.92	0.00	51.33	102.67	0.00
		Bihar	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	64.14	90.40	100.00	0.00	65.33	115.67	0.00
		Delhi	100.00	93.22	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	64.14	91.14	99.85	0.00	50.67	112.00	0.00
		Gujarat	100.00	91.30	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	64.14	96.58	99.83	0.00	31.33	66.00	0.00
		Karnataka	100.00	90.75	99.35	0.02	100.00	100.00	100.00	100.00	0.00	0.00	64.14	95.15	99.72	0.00	95.67	201.33	0.00
		Kerala	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	64.14	96.43	99.85	0.00	38.67	86.00	0.00
		Kolkata	100.00	90.57	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	64.14	90.24	99.66	0.00	34.00	75.67	0.00
		Punjab	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	64.14	91.23	99.93	0.00	83.66	108.33	0.00
		Rajasthan	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	64.14	89.80	100.00	0.00	65.00	108.00	0.00
		Tamilnadu	100.00	92.51	99.23	0.02	100.00	100.00	100.00	100.00	0.00	0.00	64.14	91.00	99.17	0.00	28.33	63.00	0.00
84	Tata Teleservices(Maharashtra) Ltd.	Maharashtra	100.00	90.04	99.14	0.02	100.00	100.00	99.40	99.60	0.00	0.00	72.09	95.73	99.79	0.00	55.00	122.00	0.00
85	Tikona Infninet Ltd.	Mumbai	100.00	96.61	99.49	0.00	100.00	100.00	99.36	99.61	0.00	0.00	72.09	94.81	99.88	0.00	32.33	72.00	0.00
86	Tikona Infninet Ltd.	All India	100.00	93.63	99.33	1.16	100.00	100.00	63.70	80.80	0.00	0.00	75.67	93.28	99.86	0.00	3.33	0.00	0.00
87	Vijaylakshmi Net Services Pvt.Ltd.	Andhra Pradesh	100.00	95.00	100.00	0.00	100.00	100.00	91.00	99.00	0.00	0.00	64.29	100.00	99.68	0.00	20.00	250.00	350.00
88	Vortex Infocom Private Limited	Maharashtra	100.00	95.00	99.00	0.00	100.00	100.00	70.00	81.00	0.00	0.00	85.00	85.00	99.31	0.50	0.00	0.00	0.00
89	Vortex Nets of Pvt. Ltd.	Gujarat	100.00	95.00	99.00	0.00	100.00	100.00	70.00	81.00	0.00	0.00	85.00	100.00	99.31	0.50	0.00	0.00	0.00
		Maharashtra	100.00	95.00	99.00	0.00	100.00	100.00	70.00	81.00	0.00	0.00	85.00	100.00	99.31	0.50	0.00	0.00	0.00
		Mumbai	100.00	95.00	99.00	0.00	100.00	100.00	70.00	81.00	0.00	0.00	85.00	100.00	99.31	0.50	0.00	0.00	0.00
90	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
91	WAVE FIBER PRIVATE LIMITED	Andhra Pradesh	100.00	93.64	100.00	0.00	100.00	100.00	83.20	97.30	0.00	0.00	83.33	100.00	99.44	0.00	20.00	250.00	350.00
92	Weebo Networks Pvt Ltd.	All India	100.00	98.17	100.00	0.00	100.00	100.00	87.53	98.63	0.00	0.00	88.00	85.00	99.14	0.44	100.00	300.00	600.00
93	Wish Net Pvt. Ltd.	Andhra Pradesh	100.00	100.00	100.00	0.00	100.00	100.00	100.00	100.00	0.00	0.00	0.00	100.00	100.00	0.30	0.00	0.00	0.00
		Assam	100.00	100.00	100.00	0.00	100.00	100.00	98.03	99.43	0.00	0.00	50.19	100.00	100.00	0.30	23.00	0.00	0.00
		Bihar	100.00	100.00	100.00	0.00	100.00	100.00	99.19	98.53	0.00	0.00	50.19	100.00	100.00	0.30	23.00	0.00	0.00
		Kolkata	100.00	98.78	100.00	0.00	100.00	100.00	98.10	97.02	0.00	0.00	50.19	100.00	100.00	0.30	12.00	0.00	0.00
		Madhya Pradesh	100.00	100.00	100.00	0.00	100.00	100.00	96.72	97.73	0.00	0.00	50.19	100.00	100.00	0.30	23.00	0.00	0.00
		Odisha	100.00	100.00	100.00	0.00	100.00	100.00	99.19	98.53	0.00	0.00	50.19	100.00	100.00	0.30	23.00	0.00	0.00
94	West Bengal	100.00	98.75	100.00	0.00	100.00	100.00	97.72	98.76	0.00	0.00	50.19	100.00	100.00	0.30	12.00	0.00	0.00	
95	Yashash Cable Network Pvt Ltd	Karnataka	100.00	97.38	99.58	0.00	100.00	100.00	89.40	93.50	0.00	0.00	58.27	84.00	99.28	0.01	40.00	253.00	0.00
96	You Broadband India Ltd.	All India	100.00	92.44	99.74	0.00	100.00	100.00	96.35	98.15	0.00	0.00	74.74	87.14	98.73	0.00	8.00	270.00	0.00

*New entrants

Annexure 5.1: List of pay channels, offered by broadcasters to subscribers as reported to TRAI (Tariff Order dated 03.03.2017, as amended on 22.11.2022)

S.N.	Name of the broadcaster	S.N	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	Bangla Entertainment Private Limited	3	SONY AATH	SD
		4	SONY Marathi	SD
3	BBC Global News India Private Limited	5	BBC World News	SD
		6	Cbeebies	SD
4	Bennett, Coleman & Company Limited	7	Zoom	SD
		8	Romedy Now	SD
		9	MN + (HD)	HD
		10	Mirror Now	SD
		11	ET NOW	SD
		12	Times Now	SD
		13	Times Now Navbharat HD	HD
		14	Movies Now HD	HD
		15	MNX HD	HD
		16	ET Now Swedesh	SD
		17	MNX	SD
5	Celebrities Management Pvt Limited	18	Times Now World (HD)	HD
		19	Travel XP HD	HD
		20	Travel XP Tamil	SD
6	CSL Info Media Private Limited	21	Foodxp	SD
		22	JAN TV PLUS	SD
7	Culver Max Entertainment Private Limited	23	Sony YAY!	SD
		24	SONY MAX	SD
		25	SONY SAB	SD
		26	SONY ENTERTAINMENT CHANNEL (SET)	SD
		27	SONY PIX	SD

S.N.	Name of the broadcaster	S.N	Name of the channel	Declared as SD or HD
		28	SONY MAX 2	SD
		29	SONY PAL	SD
		30	SONY ENTERTAINMENT CHANNEL HD	HD
		31	PIX HD	HD
		32	MAX HD	HD
		33	SONY Sports Ten 2 HD	HD
		34	SONY Sports Ten 3 HD	HD
		35	SONY Sports Ten 2	SD
		36	SONY Sports Ten 1	SD
		37	SONY Sports Ten 3	SD
		38	SONY Sports Ten 1 HD	HD
		39	SONY Wah	SD
		40	SAB HD	HD
		41	SONY Sports Ten 4	SD
		42	SONY Sports Ten 4 HD	HD
		43	SONY Sports Ten 5	SD
		44	SONY Sports Ten 5 HD	HD
8	Direct New Private Limited	45	News X	SD
9	Discovery Communications India	46	Animal Planet	SD
		47	Discovery Channel	SD
		48	DTAMIL	SD
		49	Discovery Kids Channel	SD
		50	Discovery Science	SD
		51	Discovery Turbo	SD
		52	Investigation Discovery	SD
		53	Discovery HD	HD
		54	Animal Planet HD	HD
		55	TLC HD	HD
		56	Investigation Discovery HD	HD
		57	TLC	SD

S.N.	Name of the broadcaster	S.N	Name of the channel	Declared as SD or HD
		58	EUROSPORT HD	HD
		59	EUROSPORT	SD
10	Disney Broadcasting (India) Limited	60	Disney Junior	SD
		61	Super Hangama (Marvel HQ)	SD
		62	Disney International HD	HD
		63	Hungama TV	SD
		64	The Disney Channel	SD
		65	UTV Bindass	SD
		66	The Disney Channel HD	HD
11	Eenadu Television Private Limited	67	ETV Telegu	SD
		68	ETV Andhra Pradesh	SD
		69	ETV - Telangana	SD
		70	ETV Cinema	SD
		71	ETV Life	SD
		72	ETV Plus	SD
		73	ETV Abhiruchi	SD
		74	ETV HD	HD
		75	ETV Plus HD	HD
		76	ETV Cinema HD	HD
		77	ETV Balbharat Telugu	SD
		78	ETV Balbharat Hindi	SD
		79	ETV Balbharat kannada	SD
		80	ETV Balbharat Malayalam	SD
		81	ETV Balbharat Tamil	SD
		82	ETV Balbharat English	SD
		83	ETV Balbharat HD	HD
		84	ETV Balbharat SD	SD
12	Fame Media Private Limited	85	4tv News	SD
13	Greycells18 Media Limited	86	Topper TV	SD
14	IN 10 Media Private Limited	87	EPIC TV	SD

S.N.	Name of the broadcaster	S.N	Name of the channel	Declared as SD or HD
		88	Filamchi	SD
		89	Gubbare	SD
		90	Showbox	SD
		91	Ishara TV	SD
15	Information TV Private Limited	92	India News	SD
16	IBN Lokmat News Private Ltd	93	News 18 Lokmat	SD
17	Kalaignar TV Pvt Limited	94	Kalaignar TV	SD
		95	Kalaignar Isai Aruvi	SD
		96	Kalaignar Siripolli	SD
		97	Kalaignar Murasu	SD
		98	Kalaignar Seithigal	SD
18	Living Entertainment Enterprises Private Ltd	99	LF HD	HD
19	Lifestyle and Media Broadcasting Limited	100	Good Times	SD
20	Lex Sportel Vision Private Limited	101	1SPORTS	SD
21	Mavis Satcom Limited	102	J Movies	SD
		103	Jaya Max	SD
		104	Jaya Plus	SD
		105	Jaya TV HD	HD
22	MSM World Wide Factual Media Private Limited	106	SONY BBC EARTH	SD
		107	SONY BBC EARTH HD	HD
23	Media World Wide Limited	108	WOMAN	SD
		109	Travel XP	SD
24	New Delhi Television Limited	110	NDTV 24*7	SD
		111	NDTV India	SD
		112	NDTV Profit	SD
25	NGC Network (India) Pvt Limited	113	Fox Life	SD
		114	National Geographic Channel (NGC)	SD
		115	Fox Life HD	HD
		116	Nat Geo Wild	SD
		117	National Geographic HD	HD
		118	Nat Geo Wild HD	HD

S.N.	Name of the broadcaster	S.N	Name of the channel	Declared as SD or HD
26	Odisha Television Limited	119	Tarang HD	HD
27	Raj Television Network Limited	120	Raj Digital Plus	SD
		121	Raj Musix	SD
		122	Raj News	SD
		123	Raj TV	SD
28	Silverstar Communications Limited	124	Mega 24	SD
		125	Mega Musiq	SD
		126	Mega TV	SD
29	Star India Private Limited	127	Star Sports 3	SD
		128	Star Sports 1 Tamil	SD
		129	Star Sports Select 2	SD
		130	Star Bharat	SD
		131	Star Gold 2 (Movies OK)	SD
		132	Star Sports 1 Hindi	SD
		133	Star Gold	SD
		134	Star Jalsha	SD
		135	Star Movies	SD
		136	Star Gold Select	SD
		137	Star Plus	SD
		138	Star Pravah	SD
		139	Star Sports 1	SD
		140	Star Sports 2	SD
		141	Jalsha Movies	SD
		142	Star Sports HD 2	HD
		143	Star Sports HD 1	HD
		144	Star Bharat HD	HD
		145	Star Gold HD	HD
		146	Star Movies HD	HD
147	Star Plus HD	HD		
148	Star Sports 1 HD Hindi	HD		
149	Star Sports Select 1	SD		
150	Star Movies Select HD	HD		

S.N.	Name of the broadcaster	S.N	Name of the channel	Declared as SD or HD
		151	Star Sports First	SD
		152	MAA Gold	SD
		153	MAA Movies	SD
		154	MAA Music	SD
		155	MAA TV	SD
		156	Star Pravah HD	HD
		157	Star Jalsha HD	HD
		158	Jalsha Movies HD	HD
		159	Star Sports Select HD 1	HD
		160	Star Sports Select HD 2	HD
		161	MAA HD	HD
		162	Star Gold Select HD	HD
		163	MAA Movies HD	HD
		164	Star Sport 1 Telugu	SD
		165	Star Sport 1 Kannada	SD
		166	Star Utsav	SD
		167	Star Utsav Movies	SD
		168	Star Gold Romance	SD
		169	Star Gold Thrills	SD
		170	Pravah Pictures	SD
		171	Star Kiran	SD
		172	Star Movies Select	SD
		173	Star Gold 2 HD	HD
		174	Star Sports 1Tamil HD	HD
		175	Star Sports 1Telugu HD	HD
		176	Star Kiran HD	HD
		177	Pravah Pictures HD	HD
		178	Vijay TV	SD
		179	Vijay Super	SD
		180	Vijay HD	HD
		181	Vijay Takkar (Vijay Music)	SD

S.N.	Name of the broadcaster	S.N	Name of the channel	Declared as SD or HD
		182	Asianet	SD
		183	Asianet Plus	SD
		184	Asianet Movies	SD
		185	Suvarna Plus	SD
		186	Star Suvarna HD	HD
		187	Asianet HD	HD
		188	Star Suvarna	SD
		189	Vijay Super HD	HD
		190	Asianet Movies HD	HD
30	SUN TV Network Limited	191	Adithya TV	SD
		192	Chintu TV	SD
		193	Chutti TV	SD
		194	Gemini Comedy	SD
		195	Gemini Life	SD
		196	Gemini Movies	SD
		197	Gemini Music	SD
		198	Gemini TV	SD
		199	KTV	SD
		200	Surya Movies	SD
		201	Kushi TV	SD
		202	SUN Life	SD
		203	Sun Music	SD
		204	Sun News	SD
		205	Surya Music	SD
		206	SUN TV	SD
		207	Surya Comedy	SD
		208	Surya TV	SD
		209	Udaya Comedy	SD
		210	Udaya Movies	SD
		211	Udaya Music	SD
		212	Udaya TV	SD
		213	Kochu TV	SD

S.N.	Name of the broadcaster	S.N	Name of the channel	Declared as SD or HD
		214	Sun TV HD	HD
		215	KTV HD	HD
		216	Sun Music HD	HD
		217	Gemini TV HD	HD
		218	Gemini Music HD	HD
		219	Gemini Movies HD	HD
		220	Surya TV HD	HD
		221	Udaya TV HD	HD
31	Suryansh Broadcasting Private Limited	222	Flowers	SD
32	Sidharth Broadcasting Private Limited	223	Sidharth TV	SD
33	Sarthak Music Private Limited	224	Sidharth Bhakti	SD
		225	Jay Jagannath	SD
		226	Sidharth Gold	SD
34	Tarang Broadcasting Company Limited	227	Prarthana	SD
		228	Tarang	SD
		229	Tarang Music	SD
		230	Alankar	SD
35	TV 18 Broadcast Limited	231	CNN News 18	SD
		232	CNBC Bazaar	SD
		233	CNBC TV 18 Prime HD	HD
		234	CNBC Awaaz	SD
		235	News 18 Tamil Nadu	SD
		236	News 18 Kerala	SD
		237	News 18 Assam / North East	SD
		238	News 18 India	SD
		239	CNBC TV 18	SD
		240	News 18 Bihar Jharkhand	SD
		241	News 18 Madhya Pradesh / Chattisgarh	SD
		242	News 18 Rajasthan	SD
		243	News 18 Uttar Pradesh/ Uttaranchal	SD

S.N.	Name of the broadcaster	S.N	Name of the channel	Declared as SD or HD
		244	News 18 Jammu/Kashmir/Ladakh/Himachal	SD
		245	News 18 Kannada	SD
		246	News 18 Bangla	SD
		247	News 18 Punjab / Haryana	SD
		248	News 18 Gujarati	SD
		249	News 18 Odia	SD
36	TV Today Network Limited	250	Aaj Tak	SD
		251	India Today	SD
		252	AAJ Tak HD	HD
		253	Good News Today	SD
37	Viacom 18 Media Private Limited	254	Colors	SD
		255	Comedy Central (HD)	HD
		256	MTV	SD
		257	NICK	SD
		258	NICK JR	SD
		259	SONIC	SD
		260	VH 1 (HD Distribution)	HD
		261	Colors Infinity HD	HD
		262	Colors Infinity	SD
		263	Colors HD	HD
		264	NICKS HD+	HD
		265	Colors Cineplex	SD
		266	MTV Beats	SD
		267	Colors Kannada HD	HD
		268	Colors Marathi HD	HD
		269	Colors Bangla HD	HD
		270	Colors Super	SD
		271	Colors Cineplex Bollywood	SD
		272	Sports18 1	SD
		273	Sports 18 1 HD	HD

S.N.	Name of the broadcaster	S.N	Name of the channel	Declared as SD or HD
		274	Colors Bangla	SD
		275	Colors Gujarati	SD
		276	Colors Kannada	SD
		277	Colors Marathi	SD
		278	Colors Odia	SD
		279	MTV Beats HD	HD
		280	Colors Tamil	SD
		281	Colors Cineplex HD	HD
		282	VH 1	SD
		283	Colors Tamil HD	HD
		284	MTV HD	HD
		285	Colors Rishtey	SD
		286	Colors Kannada Cinema	SD
		287	Colors Gujarati Cinema	SD
		288	Comedy Central	SD
		289	Colors Bangla Cinema	SD
		290	Colors Cineplex Superhit	SD
38	Warner Media India Private Limited	291	Cartoon Network	SD
		292	CNN International	SD
		293	POGO	SD
		294	Cartoon Network HD+	HD
39	Zee Akaash News Private Limited	295	Zee 24 Ghanta	SD
40	Zee Entertainment Enterprises Limited	296	Zee Bollywood	SD
		297	Zee Action	SD
		298	Zee Bangla Cinema	SD
		299	Zee Café HD	HD
		300	Zee Café	SD
		301	Zee Cinema	SD
		302	Zee Talkies	SD
		303	Zee TV	SD
		304	Zing	SD

S.N.	Name of the broadcaster	S.N	Name of the channel	Declared as SD or HD
		305	& Picture	SD
		306	Zee Bangla	SD
		307	Zee Marathi	SD
		308	Zee Zest	SD
		309	Zee Zest HD	HD
		310	Zee TV HD	HD
		311	Zee Cinema HD	HD
		312	& TV	SD
		313	& TV HD	HD
		314	Zee Kannada	SD
		315	Zee Telugu	SD
		316	& Pictures HD	HD
		317	Zee Cinemalu	SD
		318	Zee Yuva	SD
		319	Zee Marathi HD	HD
		320	& Prive HD	HD
		321	Zee Bangla HD	HD
		322	Zee Tamil HD	HD
		323	Zee Cinemalu HD	HD
		324	Zee Telugu HD	HD
		325	Zee Tamil	SD
		326	Zee Kannada HD	HD
		327	Zee Anmol Cinema	SD
		328	& Flix HD	HD
		329	& Flix	SD
		330	Zee Keralam HD	HD
		331	Zee Keralam	SD
		332	Zee Anmol	SD
		333	Big Magic	SD
		334	Zee Ganga	SD
		335	Zee Classic	SD
		336	&Xplore HD	HD

S.N.	Name of the broadcaster	S.N	Name of the channel	Declared as SD or HD
		337	ZEE Sarthak	SD
		338	Zee Talkies HD	HD
		339	Zee Punjabi	SD
		340	Zee Thirai	SD
		341	Zee Picchar	SD
		342	Zee Thirai HD	HD
		343	Zee Picchar HD	HD
		344	Zee Biskope	SD
41	Zee Media Corporation Limited	345	Zee 24 Taas	SD
		346	Zee Delhi NCR Haryan (Zee Odisha)	SD
		347	Zee Business	SD
		348	Zee Punjab Haryana Himachal	SD
		349	Zee Madhya Pradesh Chattisgarh	SD
		350	Zee Salaam	SD
		351	Zee 24 Kalak	SD
		352	WION	SD
		353	Zee Uttar Pradesh Uttrakhand	SD
		354	Zee Hindustan	SD
		355	Zee Bihar Jharkhand	SD
		356	Zee News	SD
		357	Zee Rajasthan News	SD
		358	Zee News HD	HD
		359	Zee Kannada News	SD
		360	Zee Telugu News	SD
42	Zoom Entertainment Network Limited	361	Movies Now	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. (CATV),**
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 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
- 12. 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

List of IPTV Operators at the end of September 2023	
S.No.	Name of IPTV Operators
1	M/s Hyderabad Cable Digital Service Pvt. Ltd.
2	M/s Bhoomika Digital Cable Services Pvt. Ltd.
3	M/s Peak Air Pvt. Ltd.
4	M/s Katalysts Productions Pvt. Ltd.
5	M/s Andhra Pradesh State Fibernet Limited
6	M/s Triple Play Teleservices (P) Ltd.
7	M/s WI Bro Solutions Pvt. Ltd
8	M/s Extreme Teleconnect Pvt. Ltd.
9	M/s Delinet Broadband Pvt. Ltd
10	M/s Den Networks Ltd.
11	M/s Hathway Digital Limited
12	M/s City Online Media Pvt. Ltd.
13	M/s Act Digital Home Entertainment Pvt. Ltd.
14	M/s Kabel First India Pvt. Ltd.
15	M/s ACN Cable Pvt. Ltd.
16	M/s UCN Network Pvt. Ltd.
17	M/s Atria Convergence Technologies Ltd.
18	M/s Skypro Communications
19	M/s E2 Info Solutions
20	M/s Assistive Netspeed Technologies Pvt. Ltd.
21	M/s Bangalore Broadband Network Private Limited
22	M/s Creative Cable Network
23	M/s Wired Entertainment
24	M/s V.K. Digital Network Private Ltd.
25	M/s AAA Cloud Telephony Private Limited
26	M/s Dombivali Optical Network Cable Pvt. Ltd

Annexure 5.5: List of 113 cities with operational private FM Radio Channels in India (as on 30th September 2023)

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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