



सत्यमेव जयते

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 22<sup>nd</sup> November, 2022

(www.trai.gov.in)

**Highlights of Telecom Subscription Data as on 30th September, 2022**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Total Telephone Subscribers</b> (Million)	<b>1145.45</b>	<b>26.47</b>	<b>1171.92</b>
Net Addition in September, 2022 (Million)	-3.66	0.50	-3.17
Monthly Growth Rate	-0.32%	1.92%	-0.27%
<b>Urban Telephone Subscribers</b> (Million)	<b>627.14</b>	<b>24.48</b>	<b>651.61</b>
Net Addition in September, 2022 (Million)	0.05	0.49	0.54
Monthly Growth Rate	0.01%	2.06%	0.08%
<b>Rural Telephone Subscribers</b> (Million)	<b>518.31</b>	<b>1.99</b>	<b>520.30</b>
Net Addition in September, 2022 (Million)	-3.71	0.006	-3.71
Monthly Growth Rate	-0.71%	0.31%	-0.71%
<b>Overall Tele-density*(%)</b>	<b>82.94%</b>	<b>1.92%</b>	<b>84.86%</b>
Urban Tele-density*(%)	129.56%	5.06%	134.62%
Rural Tele-density*(%)	57.79%	0.22%	58.01%
Share of Urban Subscribers	54.75%	92.47%	55.60%
Share of Rural Subscribers	45.25%	7.53%	44.40%
<b>Broadband Subscribers</b> (Million)	<b>785.14</b>	<b>31.09</b>	<b>816.24</b>

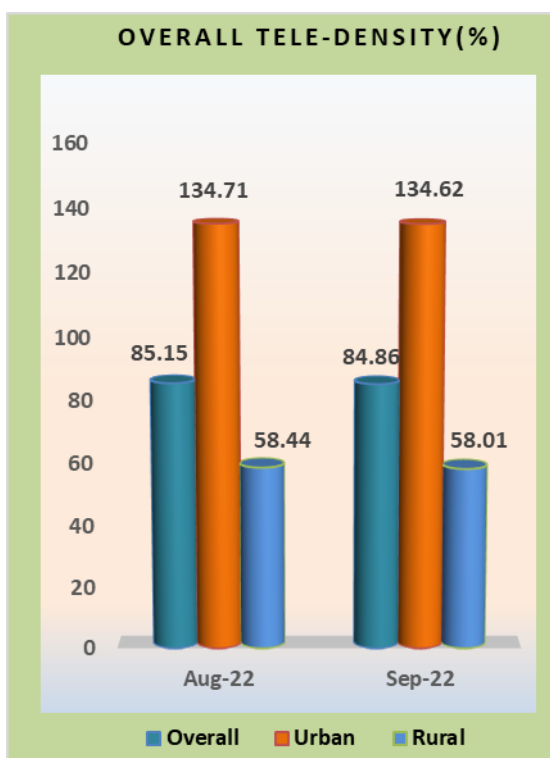
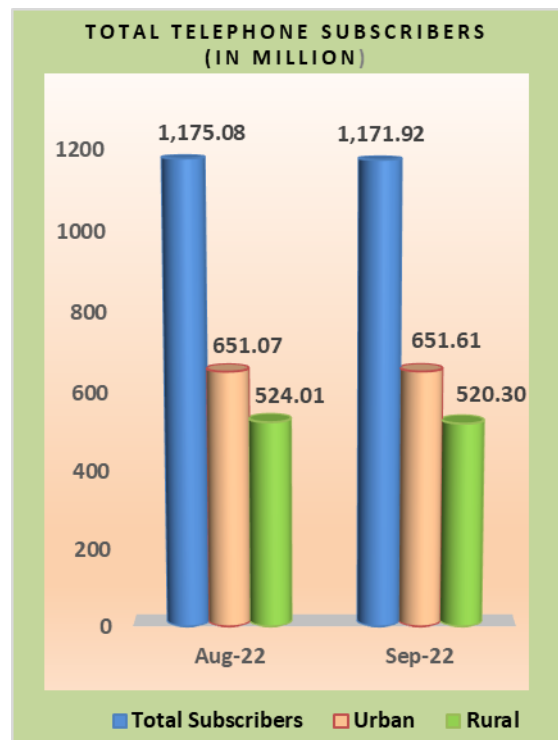
- ❖ In the month of September, 2022, 11.97 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 736.14 million at the end of August-22 to 748.11 million at the end of September-22, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in September, 2022 was 1013.97 million.

**Note:**

- Information in this Press Release is based on the data provided by the Service Providers
- \* Based on the projection of population from the 'Report of the Technical Group on Population Projections for India and States 2011 - 2036', which is available under the link [https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload\\_compressed\\_0.pdf](https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf)
- # VLR is acronym of Visitor Location Register. The dates of peak VLR for various TSPs are different in different service areas.

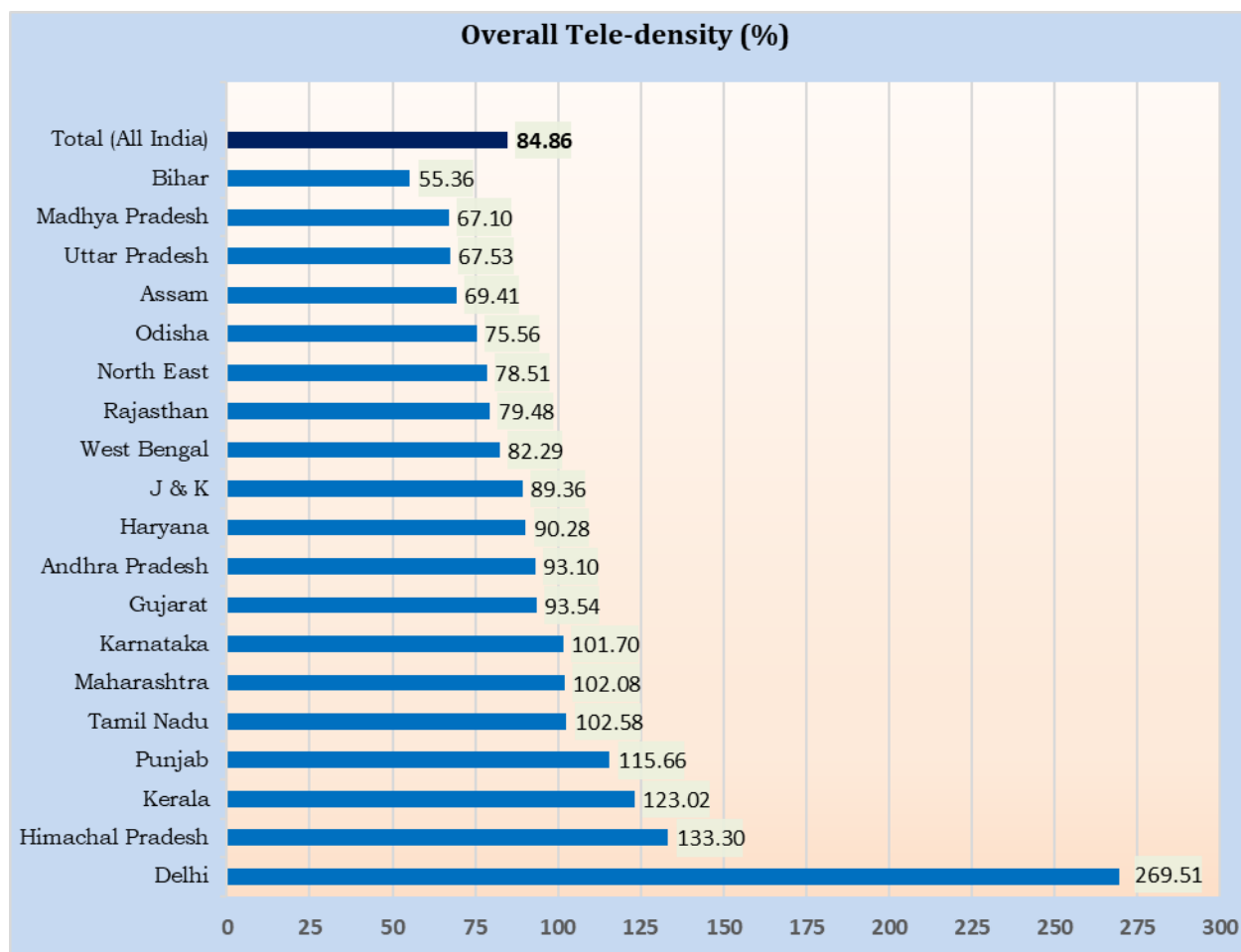
## I. Total Telephone Subscribers

- The number of telephone subscribers in India decreased from 1,175.08 million at the end of August-22 to 1,171.92 million at the end of September-22, thereby showing a monthly decline rate of 0.27%. Urban telephone subscription increased from 651.07 million at the end of August-22 to 651.61 million at the end of September-22 however, the rural subscription also decreased from 524.01 million to 520.30 million during the same period. The monthly growth rates of urban and rural telephone subscription were 0.08% and -0.71% respectively during the month of September-22.



- The overall Tele-density in India decreased 85.15% at the end of August-22 to 84.86% at the end of September-22. The Urban Tele-density decreased from 134.71% at the end of August-22 to 134.62% at the end of September-22 and Rural Tele-density also decreased from 58.44% to 58.01% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of September-22 was 55.60% and 44.40% respectively.

## Overall Tele-density (LSA Wise) – As on 30<sup>th</sup> September, 2022



- As may be seen in the above chart, eight LSA have less tele-density than the all India average tele-density at the end of September-22. Delhi service area has maximum tele-density of 269.51% and the Bihar service area has minimum tele-density of 55.36% at the end of September-22.

### Notes: -

- Population data/projections are available state wise only.
- Tele-density figures are derived from the telephone subscriber data provided by the access service providers and the projection of population from the “Report of the Technical Group on Population Projections for India and States 2011 – 2036, which is available under the link [https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload\\_compressed\\_0.pdf](https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf)
- Telephone subscriber data for Delhi, includes, apart from the data for the State of Delhi, wireless subscriber data for the areas served by the local exchanges of Ghaziabad & Noida (in Uttar Pradesh) and Gurgaon & Faridabad (in Haryana).
- Data/information for West Bengal includes Kolkata, Maharashtra includes Mumbai and Uttar Pradesh includes UPE & UPW service area(s).
- 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.

## II. Category-wise Growth in subscriber base

### Circle Category-wise Net Additions in Telephone Subscribers in the month of September 2022

Circle Category	Net additions in the month of September, 2022		Telephone Subscriber base as on 30 <sup>th</sup> September, 2022	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	1,84,864	-15,64,324	1,01,11,182	38,47,16,034
Circle B	1,47,806	-29,26,218	64,63,082	46,75,02,012
Circle C	1,00,916	6,89,286	18,17,653	18,24,30,253
Metro	65,586	1,36,827	80,77,525	11,07,98,545
<b>All India</b>	<b>4,99,172</b>	<b>-36,64,429</b>	<b>2,64,69,442</b>	<b>1,14,54,46,844</b>

### Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of September 2022

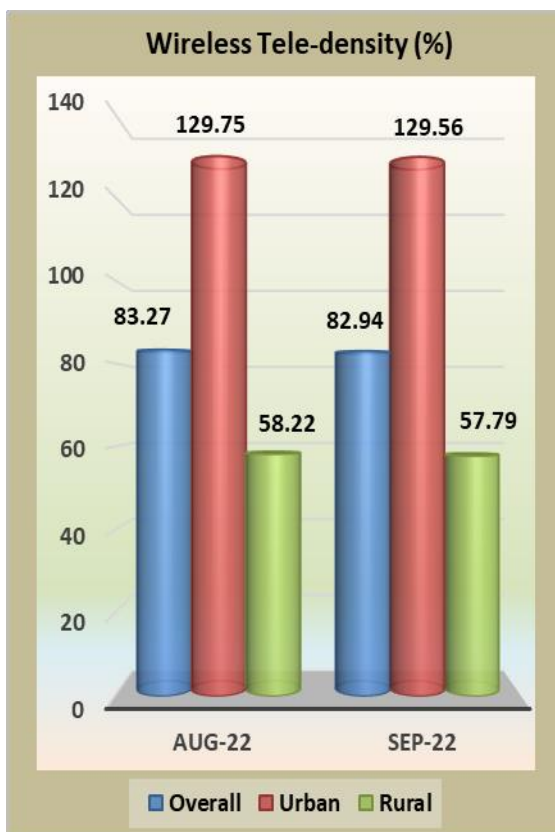
Circle Category	Monthly growth rate (%) (August-22 to September-22)		Yearly growth rate (%) (September-21 to September -22)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.86	-0.40	14.62	-3.17
Circle B	2.34	-0.62	22.04	-2.05
Circle C	5.88	0.38	34.82	1.83
Metro	0.82	0.12	5.37	-1.34
<b>All India</b>	<b>1.92</b>	<b>-0.32</b>	<b>14.43</b>	<b>-1.76</b>

Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

- As can be seen in the above tables, in wireless segment, on monthly basis except Circle 'C' and Circle 'Metro', all circles have registered decline rate in their subscriber base. On yearly basis, except Circle 'C' all circles have registered decline rate in their subscriber base.
- In Wireline segment both on monthly and yearly basis, all circles have registered growth rate in their subscriber base.

### III. Wireless subscriber

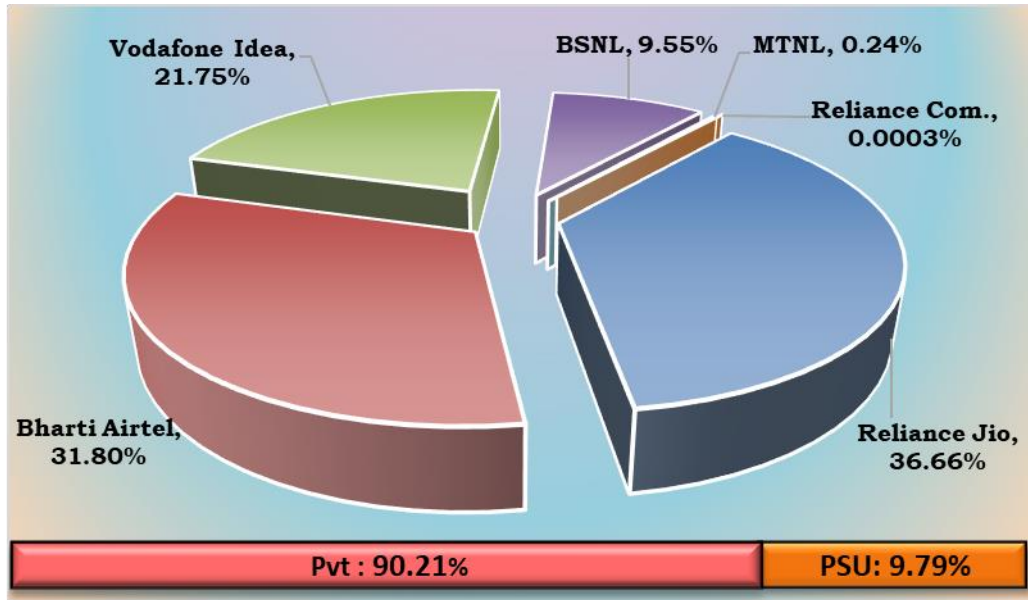
• Total wireless subscribers decreased from 1,149.11 million at the end of August-22, to 1,145.45 million at the end of September-22, thereby registering a monthly decline rate of 0.32%. Wireless subscription in urban areas increased from 627.09 million at the end of August-22 to 627.14 million at the end of September-22 however, wireless subscription in rural areas decreased from 522.02 million to 518.31 million during the same period. Monthly growth rates of urban and rural wireless subscription were 0.01% and -0.71% respectively.



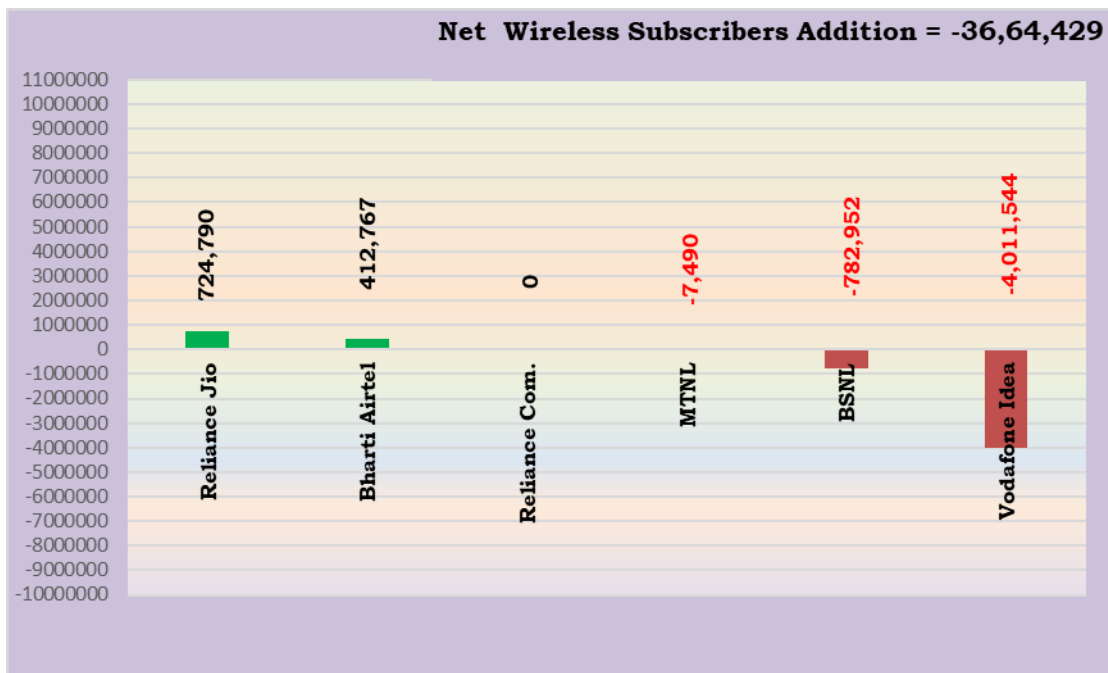
• The Wireless Tele-density in India decreased from 83.27% at the end of August-22 to 82.94% at the end of September-22. The Urban Wireless Tele-density decreased from 129.75% at the end of August-22 to 129.56% at the end of September-22 and Rural Tele-density also decreased from 58.22% to 57.79% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.75% and 45.25% respectively at the end of September-22. Detailed statistics of wireless subscriber base is available at **Annexure-I.**

- As on 30<sup>th</sup> September, 2022, the private access service providers held 90.21% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.79%.
- The graphical representation of access service provider-wise market share and net additions in wireless subscriber base are given below: -

**Access Service Provider-wise Market Shares in term of Wireless Subscribers as on 30<sup>th</sup> September, 2022**

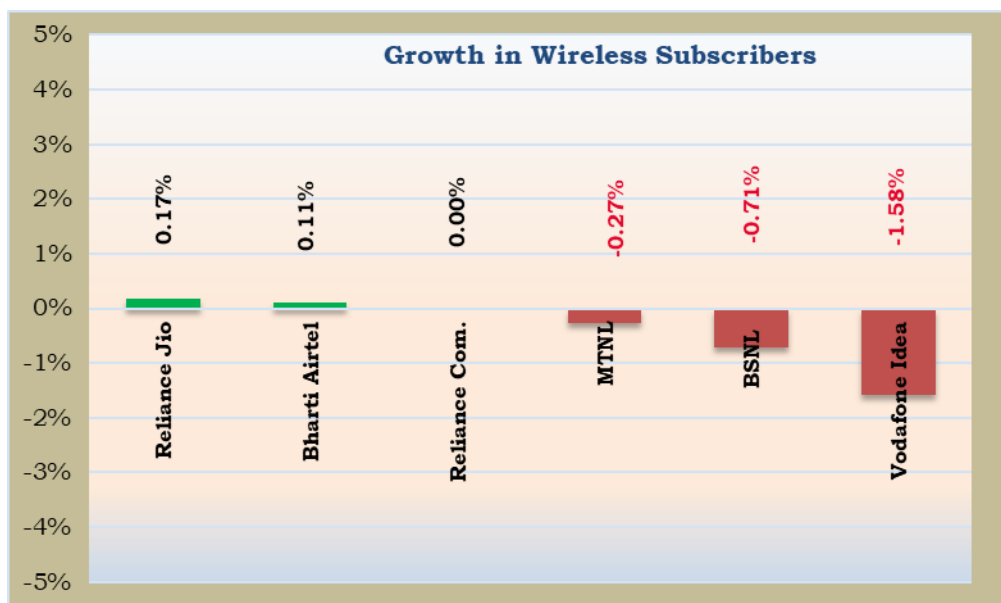


**Net Addition in Wireless Subscribers of Access Service Providers in the month of September, 2022**



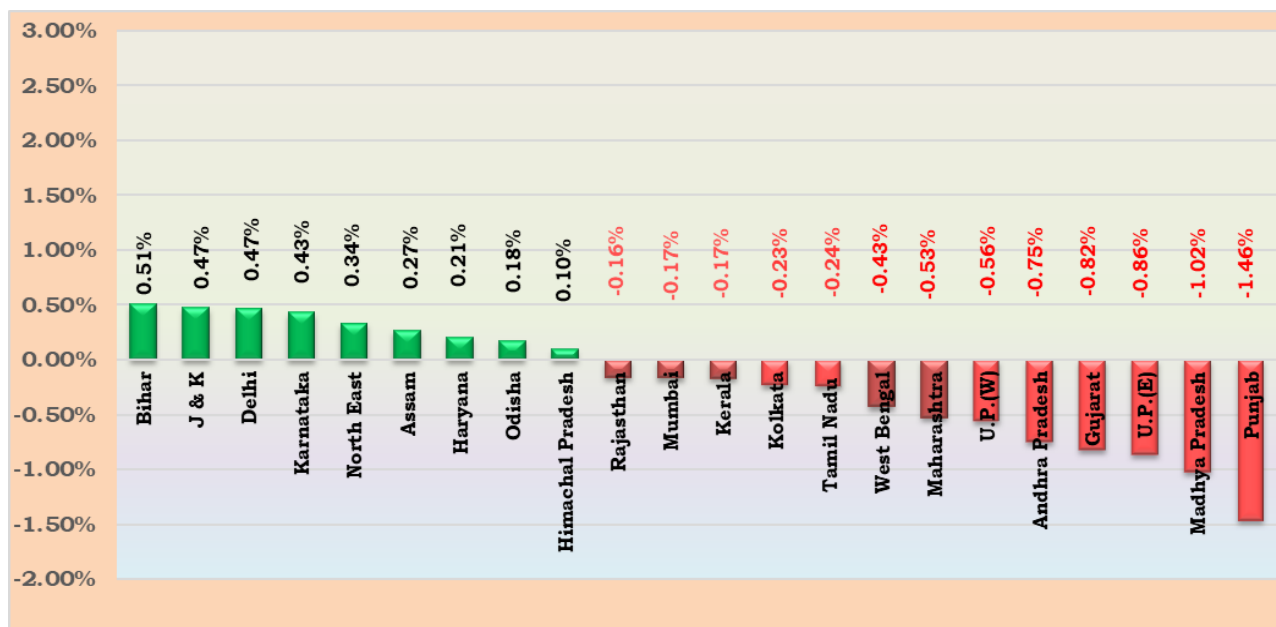
## Growth in Wireless Subscribers

### Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the month of September, 2022



Note: BSNL includes its Virtual Network Operator (VNO).

### Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of September, 2022

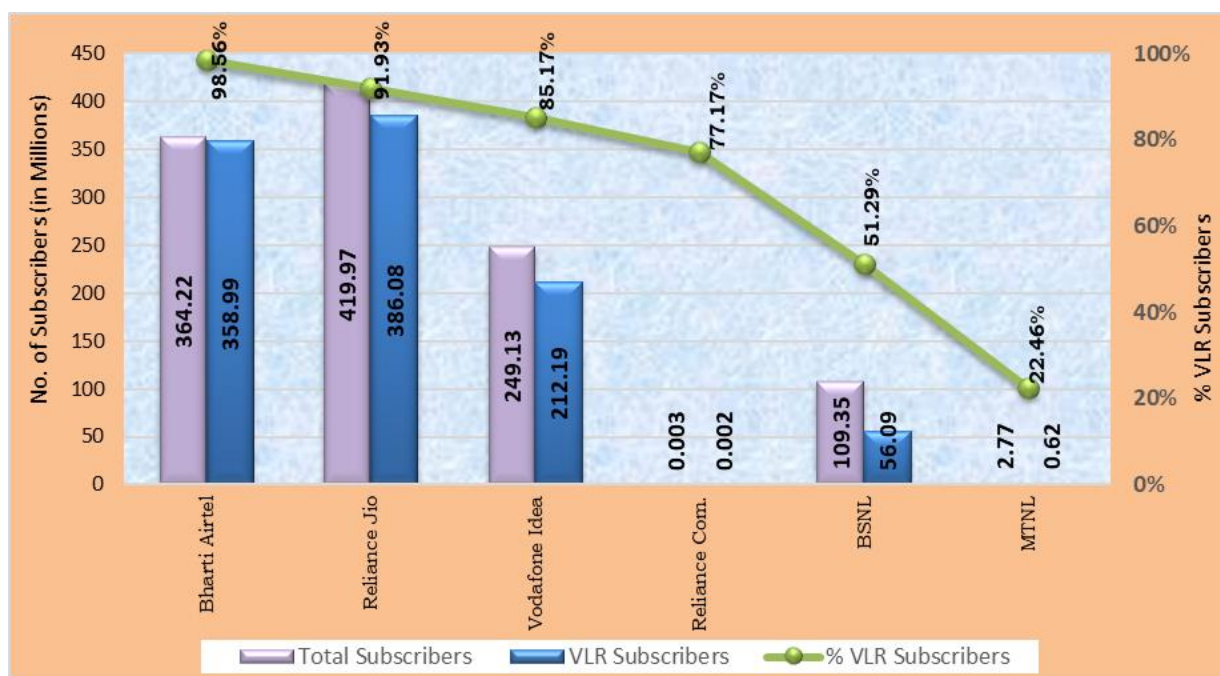


- Except Rajasthan, Mumbai, Kerala, Kolkata, Tamil Nadu, West Bengal, Maharashtra, U.P.(W), Andhra Pradesh, Gujarat, U.P.(E), Madhya Pradesh and Punjab service areas, all other service areas have showed growth rate in their wireless subscribers during the month of Sept-22.

#### IV. Active Wireless Subscribers (VLR Data)

- Out of the total 1,145.45 million wireless subscribers, 1013.97 million wireless subscribers were active on the date of peak VLR in the month of September-22. The proportion of active wireless subscribers was approximately 88.52% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of September-22 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

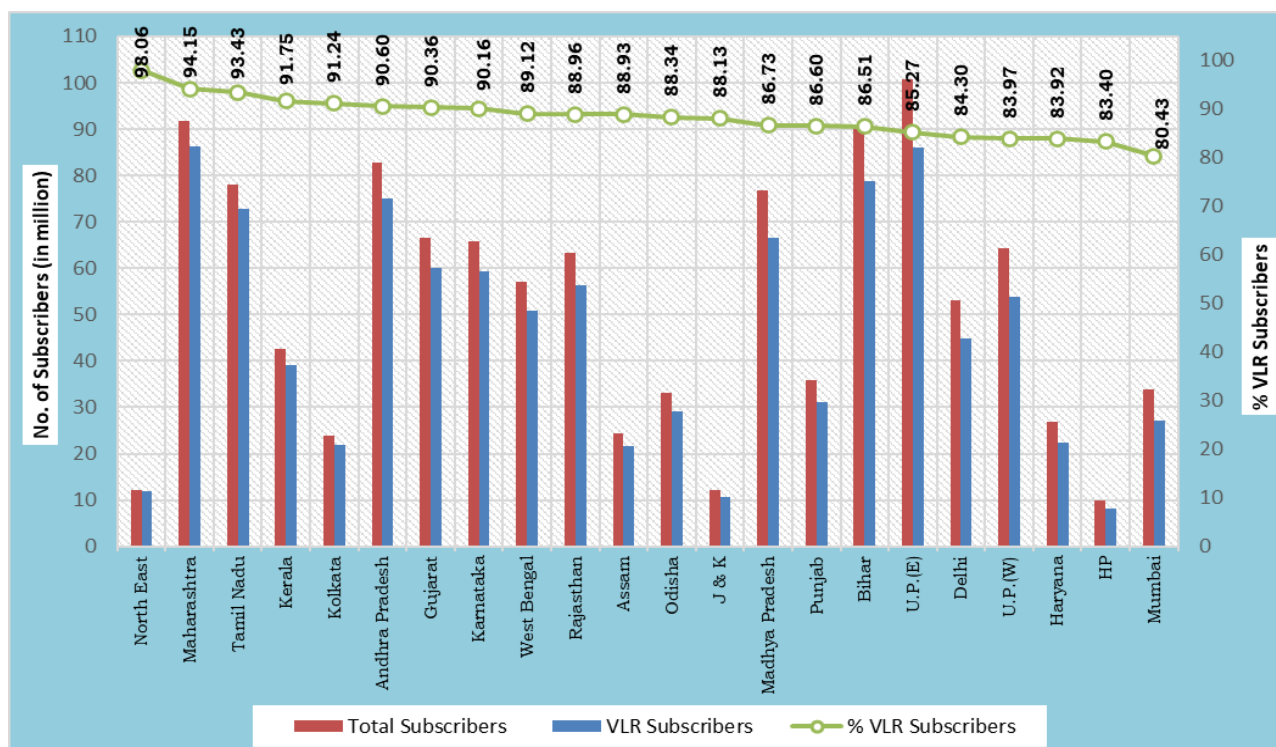
**Access Service Provider-wise Percentage of VLR Subscribers in the month of September, 2022**



- Bharti Airtel has the maximum proportion 98.56% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of September-22 and MTNL has the minimum proportion of VLR 22.46% of its HLR during the same period.



### Service Area wise percentage of VLR Subscribers in the month of September, 2022



### VI. Mobile Number Portability (MNP)

- Intra-service area Mobile number portability (MNP) was implemented first in Haryana service area w.e.f. 25.11.2010 and in the rest of the country w.e.f. 20.01.2011. Inter-Service Area MNP has been implemented in the country w.e.f. 03.07.2015. Now, the wireless telephone subscribers can retain their mobile numbers when they relocate from one service area to another.
- During the month of September-22, a total of 11.97 million requests were received for MNP. Out of total 11.97 million new requests, 7.15 million requests received from Zone-I and 4.82 million requests received from Zone-II. The cumulative MNP requests increased from 736.14 million at the end of August-22 to 748.11 million at the end of September-22, since the implementation of MNP.
- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Maharashtra (about 61.67 million) followed by Uttar Pradesh-East (about 60.95 million) service area.

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 56.36 million) followed by Madhya Pradesh (about 55.64 million).

<b>Service Area Wise MNP Status</b>					
<b>Zone - 1</b>			<b>Zone - 2</b>		
<b>Service Area</b>	<b>Number of Porting Requests (in Million)</b>		<b>Service Area</b>	<b>Number of Porting Requests (in Million)</b>	
	<b>Aug-22</b>	<b>Sep-22</b>		<b>Aug-22</b>	<b>Sep-22</b>
Delhi	35.35	35.88	Andhra Pradesh	53.90	54.49
Gujarat	49.89	50.83	Assam	5.29	5.36
Haryana	24.18	24.51	Bihar	37.71	38.47
Himachal Pradesh	3.30	3.35	Karnataka	55.71	56.36
Jammu & Kashmir	1.68	1.71	Kerala	19.39	19.59
Maharashtra	60.66	61.67	Kolkata	14.75	14.90
Mumbai	28.29	28.52	Madhya Pradesh	54.59	55.64
Punjab	26.55	26.87	North East	1.81	1.83
Rajasthan	52.55	53.33	Odisha	13.87	14.02
U.P.(East)	59.27	60.95	Tamil Nadu	51.65	52.13
U.P.(West)	46.44	47.70	West Bengal	39.29	39.99
<b>Total</b>	<b>388.17</b>	<b>395.31</b>	<b>Total</b>	<b>347.98</b>	<b>352.79</b>
<b>Total (Zone-1 + Zone-2)</b>				<b>736.14</b>	<b>748.11</b>
<b>Net Addition (September, 2022)</b>			<b>11.97 million</b>		

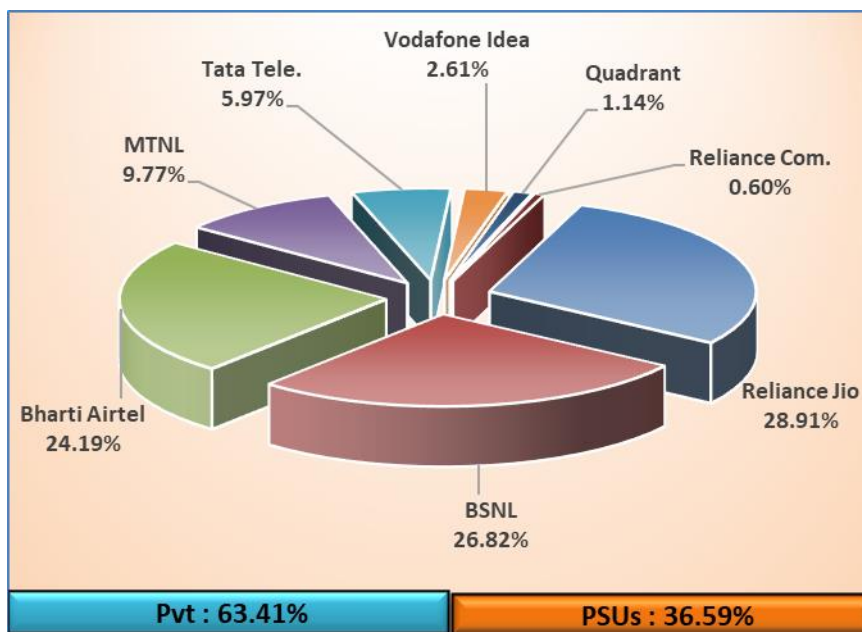
## VII. Wireline Subscribers

- Wireline subscribers increased from 25.97 million at the end of August-22 to 26.47 million at the end of September-22. Net increase in the wireline subscriber base was 0.50 million with a monthly growth rate of 1.92%. The share of urban and rural subscribers in total wireline subscribers were 92.47% and 7.53% respectively at the end of September, 2022.
- The Overall Wireline Tele-density in India increased from 1.88% at the end of August-22 to 1.92% at the end of September-22. Urban and Rural Wireline Tele-density were 5.06% and 0.22% respectively during the same period.

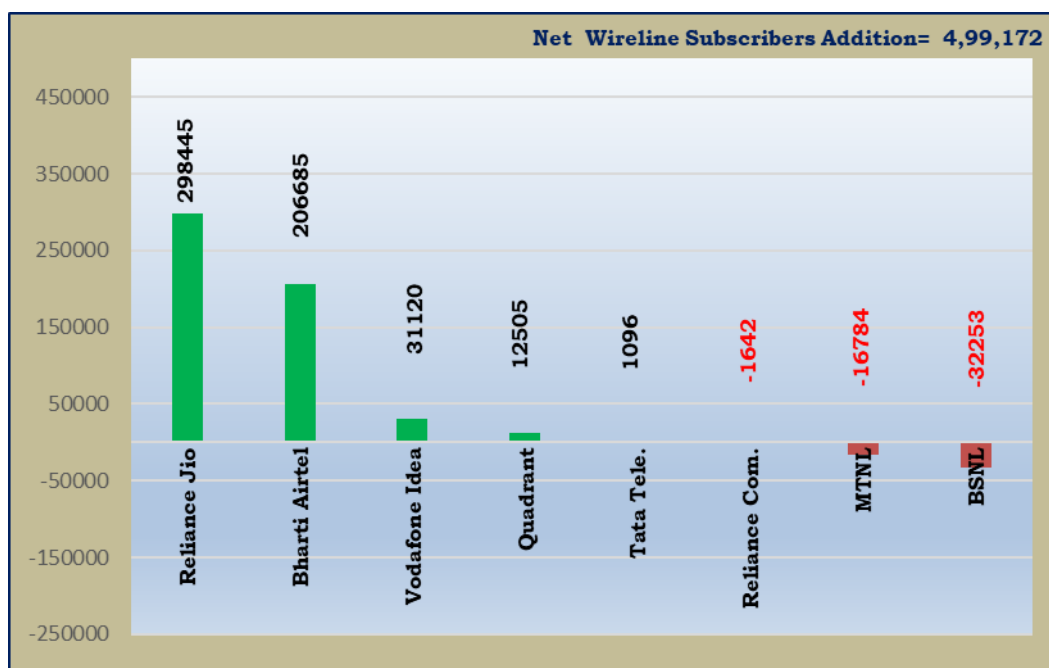
- BSNL and MTNL, the two PSU access service providers, held 36.59% of the wireline market share as on 30<sup>th</sup> September, 2022.

Detailed statistics of wireline subscriber base are available at **Annexure-III**.

**Access Service Provider-wise Market Share of Wireline Subscribers as on 30<sup>th</sup> September, 2022**



**Access Service Provider-wise Net Addition/Decline in Wireline Subscribers during the month of September, 2022**



## VIII. Broadband Subscriber

- As per the information received from 846 operators in September, 2022 in comparison to 767 Operator in August 2022, the total Broadband Subscribers increased from 813.94 million at the end of August-22 to 816.24 million at the end of September-22 with a monthly growth rate of 0.28%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

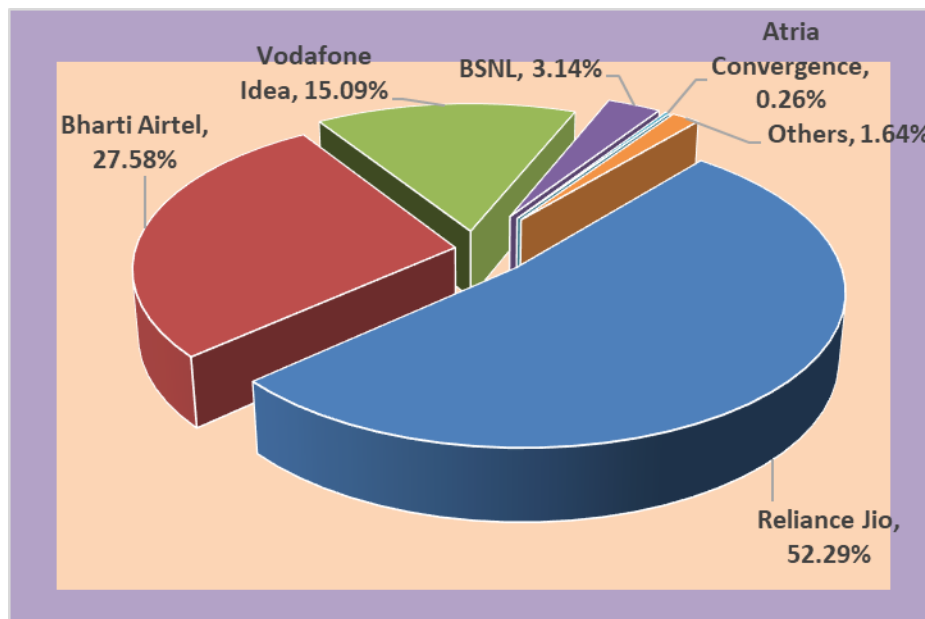
### Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of September', 2022

Segment	Broadband subscribers (in million)		Monthly growth rate in the month of September, 2022
	As on 31 <sup>st</sup> Aug, 2022	As on 30 <sup>th</sup> September, 2022	
Wired subscribers	30.37	31.09	2.37%
Mobile devices users (Phones and dongles)	782.46	783.99	0.20%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	1.11	1.15	3.56%
<b>Total</b>	<b>813.94</b>	<b>816.24</b>	<b>0.28%</b>

- Top five service providers constituted 98.36% market share of the total broadband subscribers at the end of September-22. These service providers were Reliance Jio Infocomm Ltd (426.80 million), Bharti Airtel (225.09 million), Vodafone Idea (123.20 million), BSNL (25.62 million) and Atria Convergence (2.14 million).

- The graphical representation of the service provider-wise market share of broadband services is given below: -

**Service Provider-wise Market Share of Broadband  
(wired + wireless) Services as on 30<sup>th</sup> September, 2022**



- As on 30<sup>th</sup> September, 2022, the top five Wired Broadband Service providers were Reliance Jio Infocomm Ltd (6.83 million), Bharti Airtel (5.27 million), BSNL (3.91 million), Atria Convergence Technologies (2.14 million) and Hathway Cable & Datacom (1.13 million).

As on 30<sup>th</sup> September, 2022, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (419.97 million), Bharti Airtel (219.82 million), Vodafone Idea (123.20 million), BSNL (21.71 million) and Intech Online Pvt. Ltd. (0.23 million).

**Contact details in case of any clarification: -**

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**(V. Raghunandan)  
Secretary, TRAI**

**Wireless Subscriber Base**

**Annexure-I**

Circle	Bharti Airtel (including Tata Tele.)		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	
Andhra Pradesh	31693515	31774350			12957328	12491955	8976822	8797156					29685731	29629059	<b>83313396</b>	<b>82692520</b>	-620876
Assam	10,350,589	10,438,124			2316904	2264284	3289812	3313824					8416567	8423085	<b>24373872</b>	<b>24439317</b>	65445
Bihar	39,154,621	39,367,223			10115082	9959642	5646915	5669094					35548114	35927758	<b>90464732</b>	<b>90923717</b>	458985
Delhi	16358878	16438020	198	198	16530586	16616495				1691991	1691594		18230624	18315529	<b>52812277</b>	<b>53061836</b>	249559
Gujarat	11371451	11252833	57	57	23683216	23266733	5364415	5293414					26733663	26786692	<b>67152802</b>	<b>66599729</b>	-553073
Haryana	6281489	6314298	13	13	7771735	7729482	4633316	4724280					8003839	7977956	<b>26690392</b>	<b>26746029</b>	55637
Himachal Pradesh	3351375	3368664	92	92	528275	521480	2658073	2613363					3252931	3296501	<b>9790746</b>	<b>9800100</b>	9354
J & K	5848363	5870318	0	0	428138	414420	834456	832966					4899513	4949686	<b>12010470</b>	<b>12067390</b>	56920
Karnataka	30882862	30920839	601	601	7442360	7668092	6610337	6576460					20511660	20565682	<b>65447820</b>	<b>65731674</b>	283854
Kerala	7808380	7821693	152	152	15078888	14990802	10184966	10115577					9686259	9758480	<b>42758645</b>	<b>42686704</b>	-71941
Kolkata	5682836	5687241	0	0	6024917	5993135	2184737	2172368					10057795	10041779	<b>23950285</b>	<b>23894523</b>	-55762
Madhya Pradesh	15344621	15342537	0	0	19166403	18318854	5676648	5628013					37406556	37513234	<b>77594228</b>	<b>76802638</b>	-791590
Maharashtra	20438915	20547335	0	0	26908840	26351731	6502724	6386783					38380673	38459608	<b>92231152</b>	<b>91745457</b>	-485695
Mumbai	9359238	9390935	1197	1197	11532881	11440567				1085252	1078159		11920588	11931328	<b>33899156</b>	<b>33842186</b>	-56970
North East	5749887	5780529	0	0	1036909	1023214	1,398,132	1,389,461					3904306	3936541	<b>12089234</b>	<b>12129745</b>	40511
Odisha	11234951	11302188	32	32	1680848	1677824	6,316,772	6,330,453					13779310	13759487	<b>33011913</b>	<b>33069984</b>	58071
Punjab	12027193	12053572	113	113	8210720	7640310	5,076,739	5,054,814					11036940	11072338	<b>36351705</b>	<b>35821147</b>	-530558
Rajasthan	22159978	22111587	161	161	10750310	10609215	6,411,947	6,390,012					24119101	24227583	<b>63441497</b>	<b>63338558</b>	-102939
Tamil Nadu	27082054	27160209	272	272	17555468	17445195	9,542,312	9,532,053	73,727	73,001			23881355	23735924	<b>78135188</b>	<b>77946654</b>	-188534
U.P.(E)	36508080	36164407	0	0	19910512	19609019	10,644,914	10,371,737					34571305	34611274	<b>101634811</b>	<b>100756437</b>	-878374
U.P.(W)	18758857	18692418	8	8	18103713	17878479	5,736,206	5,709,997					21986731	21944303	<b>64585515</b>	<b>64225205</b>	-360310
West Bengal	16359837	16421417	157	157	15410317	15221878	2,372,905	2,379,097					23228221	23102745	<b>57371437</b>	<b>57125294</b>	-246143
<b>Total</b>	<b>363807970</b>	<b>364220737</b>	<b>3053</b>	<b>3053</b>	<b>253144350</b>	<b>249132806</b>	<b>110063148</b>	<b>109280922</b>	<b>73727</b>	<b>73001</b>	<b>2777243</b>	<b>2769753</b>	<b>419241782</b>	<b>419966572</b>	<b>1149111273</b>	<b>1145446844</b>	<b>-3664429</b>
<b>Net Addition</b>		<b>412767</b>		<b>0</b>		<b>-4011544</b>		<b>-782226</b>				<b>-7490</b>		<b>724790</b>	0	<b>-3664429</b>	
<b>Rural Subscribers</b>	175,739,263	175,016,773	0	0	126620697	123711971	35,448,613	35,078,353	0	0	35363	35354	184177190	184466150	<b>522021126</b>	<b>518308601</b>	<b>-3712525</b>

<b>Proportion of VLR on the date of Peak VLR in the month of Sep-22 (%) Annexure-II</b>							
<b>Circle</b>	<b>Bharti</b>	<b>BSNL</b>	<b>Vodafone Idea</b>	<b>MTNL</b>	<b>Reliance Com.</b>	<b>Reliance Jio</b>	<b>Total</b>
<b>Andhra Pradesh</b>	99.03	58.14	91.91		-	90.66	<b>90.60</b>
<b>Assam</b>	99.20	41.58	90.10		-	94.51	<b>88.93</b>
<b>Bihar</b>	91.17	43.49	75.38		-	91.27	<b>86.51</b>
<b>Delhi</b>	102.66		66.66	17.80	91.41	89.97	<b>84.30</b>
<b>Gujarat</b>	107.85	46.19	91.02		98.25	91.17	<b>90.36</b>
<b>Haryana</b>	106.26	34.03	85.89		92.31	93.88	<b>83.92</b>
<b>Himachal Pradesh</b>	102.22	38.51	101.10		44.57	96.94	<b>83.40</b>
<b>J &amp; K</b>	92.50	77.18	77.99		-	85.63	<b>88.13</b>
<b>Karnataka</b>	96.37	48.47	84.55		94.01	96.25	<b>90.16</b>
<b>Kerala</b>	103.97	78.53	92.22		100.00	94.94	<b>91.75</b>
<b>Kolkata</b>	96.42	48.08	88.81		-	99.08	<b>91.24</b>
<b>Madhya Pradesh</b>	97.48	45.97	83.09		-	90.22	<b>86.73</b>
<b>Maharashtra</b>	106.22	62.81	87.61		-	97.40	<b>94.15</b>
<b>Mumbai</b>	93.69		71.53	29.77	68.09	83.11	<b>80.43</b>
<b>North East</b>	105.01	56.78	93.57		-	103.57	<b>98.06</b>
<b>Odisha</b>	98.04	52.46	92.89		37.50	96.33	<b>88.34</b>
<b>Punjab</b>	99.68	41.18	88.46		64.60	91.82	<b>86.60</b>
<b>Rajasthan</b>	99.31	41.13	90.59		60.87	91.42	<b>88.96</b>
<b>Tamil Nadu</b>	100.65	70.09	92.87		98.90	95.01	<b>93.43</b>
<b>U.P. (E)</b>	96.88	31.57	83.25		-	90.39	<b>85.27</b>
<b>U.P. (W)</b>	100.01	37.11	83.33		100.00	83.01	<b>83.97</b>
<b>West Bengal</b>	94.38	71.79	85.31		47.13	89.68	<b>89.12</b>
<b>Total</b>	<b>98.56</b>	<b>51.29</b>	<b>85.17</b>	<b>22.46</b>	<b>77.17</b>	<b>91.93</b>	<b>88.52</b>

Note: Peak VLR figures in some circles of some of the service providers are more than their HLR figures due to a large number of inroamers.

**Wireline Subscriber Base**

**Annexure-III**

Service Area	BSNL		MTNL		Bharti Airtel		Reliance Com.		Tata Tele.		Quadrant		Vodafone Idea		Reliance Jio		Total		Net Addition
	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	Aug-22	Sep-22	
Andhra Pradesh	677212	676698			376860	388080	20428	20247	155385	154615			74615	75155	850219	882035	<b>2154719</b>	<b>2196830</b>	<b>42111</b>
Assam	107,153	107,865			13172	14230	0	0	0	0			2730	2730	121876	126474	<b>244931</b>	<b>251299</b>	<b>6368</b>
Bihar	159,565	161,267			0	45704	9	9	8791	8947			1980	1980	330474	345815	<b>500819</b>	<b>563722</b>	<b>62903</b>
Delhi	0	0	1255347	1249661	1806892	1826346	23866	23096	140878	141845			83610	84590	713455	734172	<b>4024048</b>	<b>4059710</b>	<b>35662</b>
Gujarat	359693	355783			166291	166931	2266	2265	76342	76401			47566	49136	435989	450378	<b>1088147</b>	<b>1100894</b>	<b>12747</b>
Haryana	186343	186772			63483	85590	0	0	31617	31625			360	360	83239	86349	<b>365042</b>	<b>390696</b>	<b>25654</b>
Himachal Pradesh	88095	88360			1850	2953	0	0	1562	1561			30	30	39819	41382	<b>131356</b>	<b>134286</b>	<b>2930</b>
J & K	93027	91611			47887	65203	0	0	0	0			30	30	159111	162881	<b>300055</b>	<b>319725</b>	<b>19670</b>
Karnataka	872693	874983			968656	983541	20680	20702	226273	226735			123972	146012	631126	681993	<b>2843400</b>	<b>2933966</b>	<b>90566</b>
Kerala	1030807	1028453			82525	83486	4105	4075	19323	19119			6900	6810	184973	192530	<b>1328633</b>	<b>1334473</b>	<b>5840</b>
Kolkata	215282	211911			173913	177461	5506	5385	47086	48372			14175	14255	337956	350386	<b>793918</b>	<b>807770</b>	<b>13852</b>
Madhya Pradesh	263388	259391			381161	390766	5	5	12173	12461			25365	29365	448412	465632	<b>1130504</b>	<b>1157620</b>	<b>27116</b>
Maharashtra	654869	641532			313389	325396	9958	9831	209105	208844			26183	26463	188356	195909	<b>1401860</b>	<b>1407975</b>	<b>6115</b>
Mumbai	0	0	1346623	1335525	491343	497526	46969	46890	477757	476701			173266	174536	658015	678867	<b>3193973</b>	<b>3210045</b>	<b>16072</b>
North East	77264	76764			0	0	0	0	0	0			360	360	108678	113671	<b>186302</b>	<b>190795</b>	<b>4493</b>
Odisha	177525	174087			1066	1046	4	4	8583	8587			3530	3990	162566	170112	<b>353274</b>	<b>357826</b>	<b>4552</b>
Punjab	309327	309753			196752	199686	1974	1970	14804	15058	289064	301569	2040	2040	205767	213770	<b>1019728</b>	<b>1043846</b>	<b>24118</b>
Rajasthan	288233	285087			164538	169407	3430	3484	12942	12989			15295	15385	272107	282324	<b>756545</b>	<b>768676</b>	<b>12131</b>
Tamil Nadu	997668	990170			708694	728365	20279	19874	119652	119497			37110	36980	554789	576631	<b>2438192</b>	<b>2471517</b>	<b>33325</b>
U.P.(E)	141427	140938			144667	148497	20	20	8261	8253			16720	16720	332583	345854	<b>643678</b>	<b>660282</b>	<b>16604</b>
U.P.(W)	188012	187784			93939	95971	10	10	4741	4758			3708	3738	364227	379419	<b>654637</b>	<b>671680</b>	<b>17043</b>
West Bengal	244813	250934			0	7578	13	13	2624	2627			120	120	168939	174537	<b>416509</b>	<b>435809</b>	<b>19300</b>
<b>Total</b>	<b>7132396</b>	<b>7100143</b>	<b>2601970</b>	<b>2585186</b>	<b>6197078</b>	<b>6403763</b>	<b>159522</b>	<b>157880</b>	<b>1577899</b>	<b>1578995</b>	<b>289064</b>	<b>301569</b>	<b>659665</b>	<b>690785</b>	<b>7352676</b>	<b>7651121</b>	<b>25970270</b>	<b>26469442</b>	<b>499172</b>
<b>Net Addition</b>		<b>-32253</b>		<b>-16784</b>		<b>206685</b>		<b>-1642</b>		<b>1096</b>		<b>12505</b>		<b>31120</b>		<b>298445</b>		<b>499172</b>	
<b>Rural Subscribers</b>	1796254	1799053	34	34	0	0	358	418	32620	32581	21337	20599	0	0	137009	141117	<b>1987612</b>	<b>1993802</b>	<b>6190</b>



## VLR Subscribers in the Wireless Segment

**Home Location Register (HLR)** is a central database that contains details of each mobile phone subscriber that is authorized to use the GSM core network. The HLRs store details of every SIM card issued by the service provider. Each SIM has a unique identifier called an International Mobile Subscriber Identity (IMSI), which is the primary key to each HLR record. The HLR data is stored for as long as a subscriber remains with the service provider. HLR also manages the mobility of subscribers by means of updating their position in administrative areas. It sends the subscriber data to a Visitor Location Register (VLR).

**Subscriber numbers** reported by the service providers is the difference between the numbers of IMSI registered in service provider's HLR and sum of other figures as given below: -

<b>1</b>	<b>Total IMSI's in HLR (A)</b>
<b>2</b>	<b>Less: (B = a + b + c + d + e)</b>
a.	Test/Service Cards
b.	Employees
c.	Stock in hand/in Distribution Channels (Active Card)
d.	Subscriber Retention period expired
e.	Service suspended pending disconnection
<b>3</b>	<b>Subscribers Base (A-B)</b>

**Visitor Location Register (VLR)** is a temporary database of the subscribers who have roamed into the particular area, which it serves. Each base station in the network is served by exactly one VLR; hence a subscriber cannot be present in more than one VLR at a time.

If subscriber is in active stage i.e. he is able to send/receive calls/SMSs he is available both in HLR and VLR. However, it may be possible that the subscriber is registered in HLR but not in VLR due to the reason that he is either switched-off or moved out of coverage area, not reachable etc. In such circumstances he will be available in HLR but not in VLR. This causes difference between subscriber number reported by the service providers based on HLR and numbers available in VLR.

The VLR subscriber data calculated here is based on active subscribers in VLR on the date of Peak subscriber number in VLR of the particular month for which the data is being collected. This data is to be taken from the switches having the purge time of not more than 72 hours.