



सत्यमेव जयते

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 25<sup>th</sup> October, 2024

(www.traai.gov.in)

**Highlights of Telecom Subscription Data as on 31<sup>st</sup> August, 2024**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Broadband Subscribers</b> (Million)	<b>906.37</b>	<b>42.84</b>	<b>949.21</b>
<b>Urban Telephone Subscribers</b> (Million)	<b>633.21</b>	<b>33.37</b>	<b>666.58</b>
Net Addition in August, 2024 (Million)	-2.25	0.87	-1.38
Monthly Growth Rate	-0.35%	2.68%	-0.21%
<b>Rural Telephone Subscribers</b> (Million)	<b>530.63</b>	<b>2.86</b>	<b>533.49</b>
Net Addition in August, 2024 (Million)	-3.52	-0.20	-3.72
Monthly Growth Rate	-0.66%	-6.47%	-0.69%
<b>Total Telephone Subscribers</b> (Million)	<b>1163.83</b>	<b>36.23</b>	<b>1200.07</b>
Net Addition in August, 2024 (Million)	-5.77	0.67	-5.10
Monthly Growth Rate	-0.49%	1.90%	-0.42%
<b>Overall Tele-density*(%)</b>	<b>82.85%</b>	<b>2.58%</b>	<b>85.43%</b>
Urban Tele-density*(%)	126.29%	6.66%	132.94%
Rural Tele-density*(%)	58.74%	0.32%	59.05%
Share of Urban Subscribers	54.41%	92.09%	55.54%
Share of Rural Subscribers	45.59%	7.91%	44.46%

- ❖ In the month of August, 2024, 14.66 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 1011.13 million at the end of July-24 to 1025.78 million at the end of August-24, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in August, 2024 was 1061.48 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. Broadband Subscriber

- As per the information received from 1219 operators in August, 2024, in comparison to 1248 Operators in July 2024, the total Broadband Subscribers increased from 946.19 million at the end of July-24 to 949.21 million at the end of August-24 with a monthly growth rate of 0.32%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

### Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of August, 2024

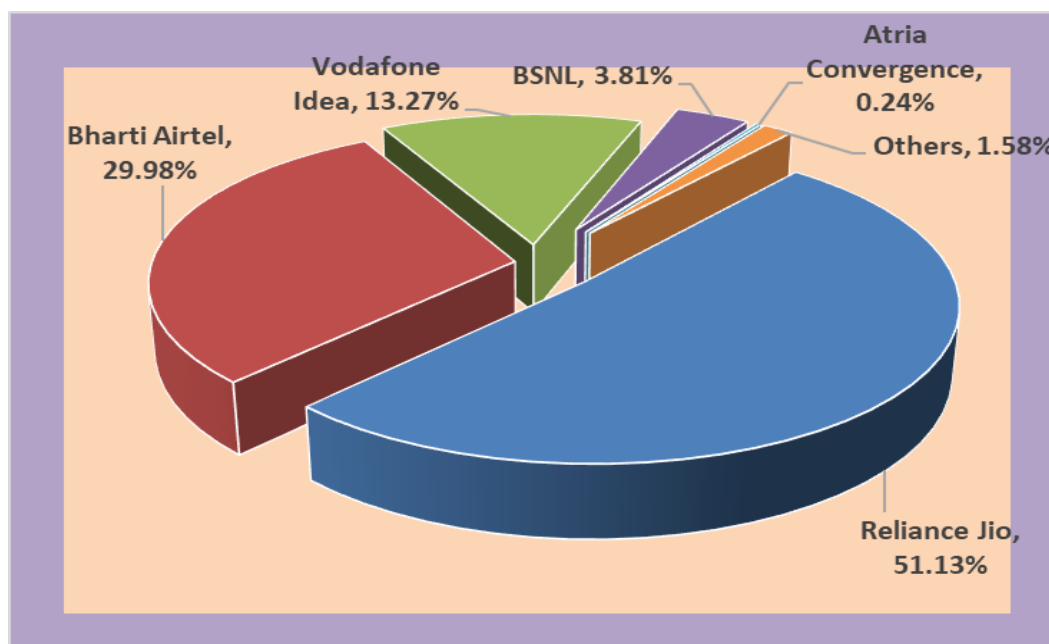
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of August, 2024
	As on 31 <sup>st</sup> July 2024	As on 31 <sup>st</sup> August 2024	
Wired subscribers	41.98	42.84	2.06%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.83	0.91	9.39%
Mobile devices users (Phones and dongles)	903.38	905.46	0.23%
<b>Total</b>	<b>946.19</b>	<b>949.21</b>	<b>0.32%</b>

### As on 31<sup>st</sup> August, 2024, top five Broadband (Wired+Wireless) Service providers

S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	485.29
2.	Bharti Airtel Ltd.	284.55
3.	Vodafone Idea Ltd.	125.92
4.	Bharat Sanchar Nigam Ltd.	36.20
5.	Atria Convergence Technologies Limited	2.27
<b>Market Share of Top Five Vs Total Broadband (Wired+Wireless)</b>		<b>98.42%</b>

- 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 31<sup>st</sup> August, 2024**



**As on 31<sup>st</sup> August, 2024, top five Wired Broadband Service providers**

S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	13.54
2.	Bharti Airtel Ltd.	8.29
3.	Bharat Sanchar Nigam Ltd.	4.20
4.	Atria Convergence Technologies Limited	2.27
5.	Kerala Vision Broadband Ltd.	1.20
<b>Market Share of Top Five Vs Total Wired Broadband</b>		<b>68.83%</b>

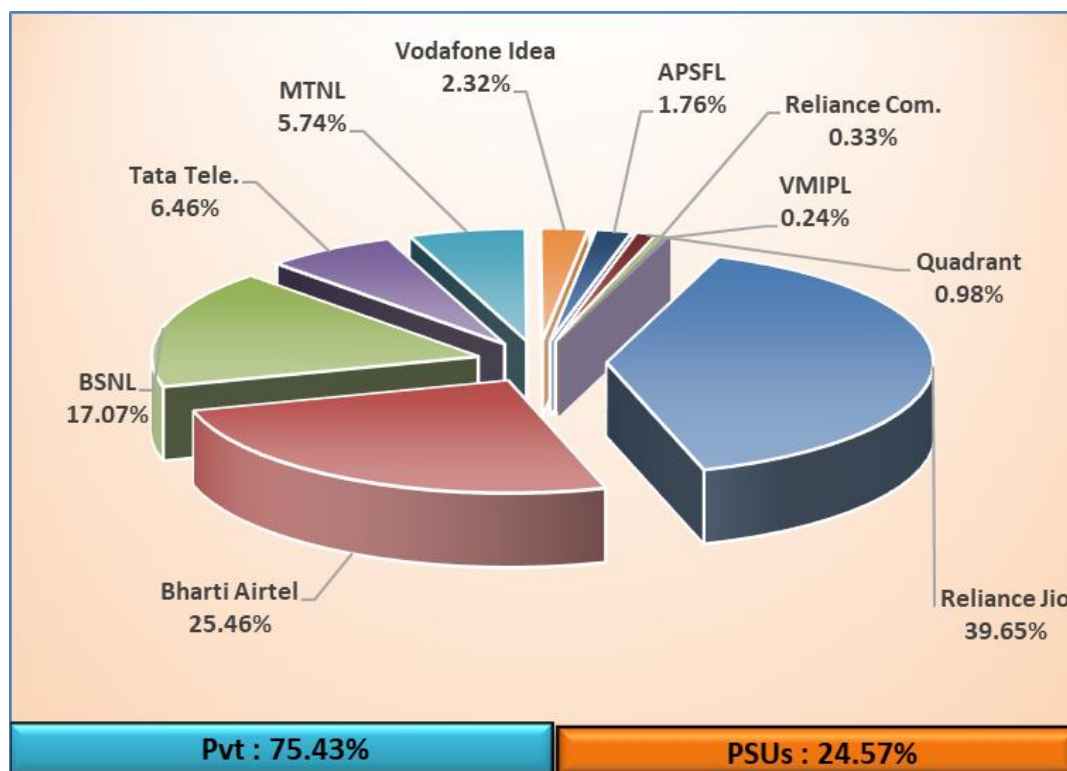
**As on 31<sup>st</sup> August, 2024, top five Wireless Broadband Service providers**

S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd.	471.75
2.	Bharti Airtel Ltd.	276.26
3.	Vodafone Idea Ltd.	125.92
4.	Bharat Sanchar Nigam Ltd.	32
5.	Intech Online Pvt. Ltd.	0.25
<b>Market Share of Top Five Vs Total Wireless Broadband</b>		<b>99.98%</b>

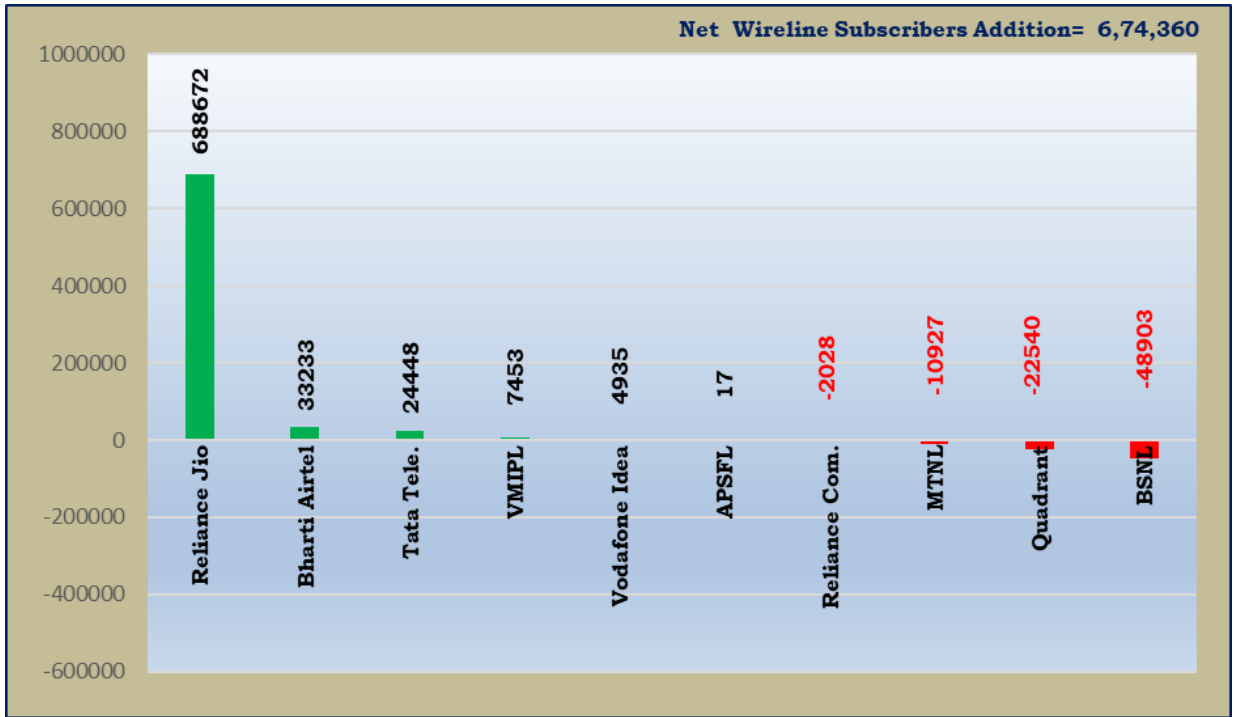
## II. Wireline Subscribers

- Wireline subscribers increased from 35.56 million at the end of July-24 to 36.23 million at the end of August-24. Net increase in the wireline subscriber base was 0.67 million with a monthly rate of growth 1.90%. The share of urban and rural subscribers in total wireline subscribers were 92.09% and 7.91% respectively at the end of August, 2024.
- The Overall Wireline Tele-density in India increased from 2.53% at the end of July-24 to 2.58% at the end of August-24. Urban and Rural Wireline Tele-density were 6.66% and 0.32% respectively during the same period.
- BSNL, MTNL and APSFL, the three PSUs access service providers, held 24.57% of the wireline market share as on 31<sup>st</sup> August, 2024. Detailed statistics of wireline subscriber base are available at **Annexure-I**.

### Access Service Provider-wise Market Share of Wireline Subscribers as on 31<sup>st</sup> August, 2024



### Access Service Provider-wise Net Addition/Decline in Wireline Subscribers during the month of August, 2024



### III. Wireless subscriber

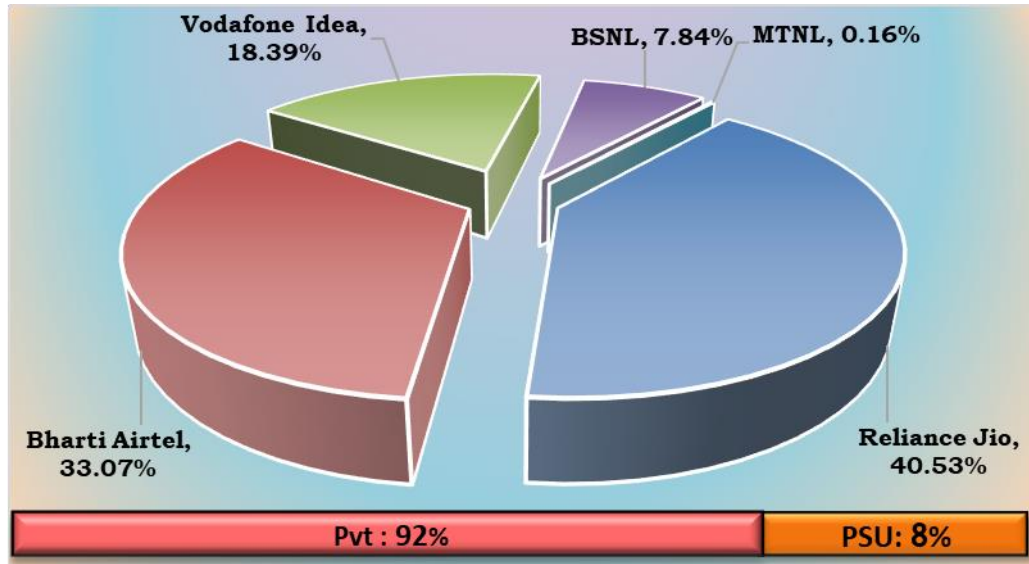
• Total wireless subscribers decreased from 1,169.61 million at the end of July-24, to 1,163.83 million at the end of August-24, thereby registering a monthly decline rate of 0.49%. Wireless subscription in urban areas decreased from 635.46 million at the end of July-24 to 633.21 million at the end of August-24, and wireless subscription in rural areas also decreased from 534.15 million to 530.63 million during the same period. Monthly decline rate of urban and rural wireless subscription was 0.35% and 0.66% respectively.



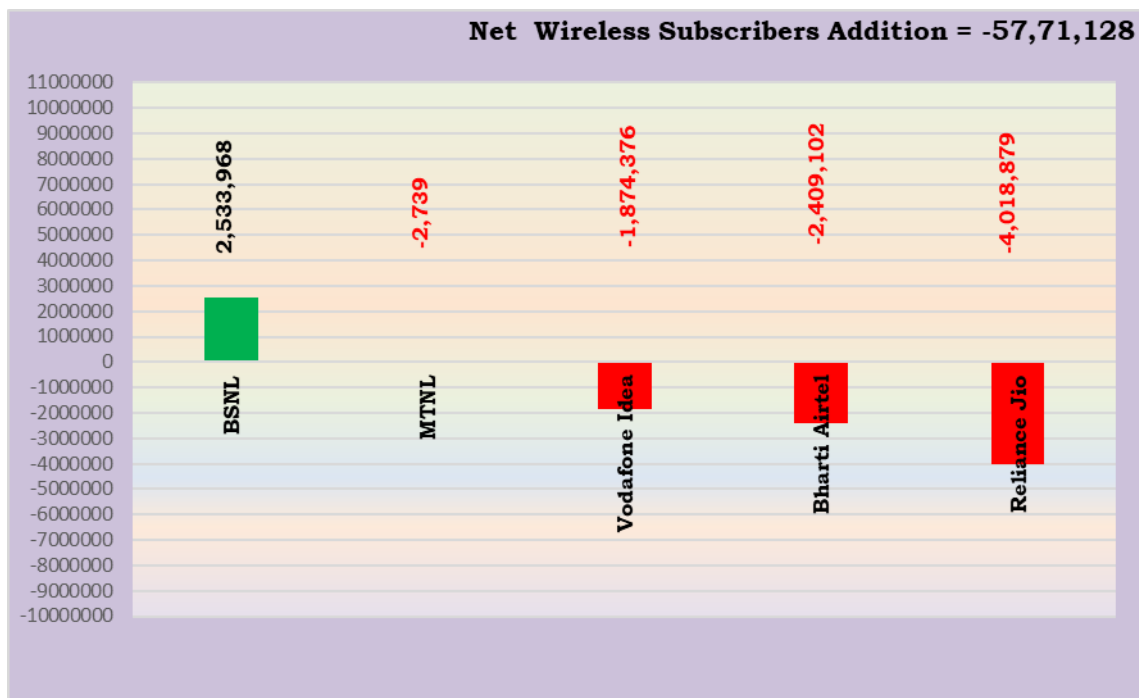
• The Wireless Tele-density in India decreased from 83.32% at the end of Jul-24 to 82.85% at the end of Aug-24. The Urban Wireless Tele-density decreased from 126.93% at the end of Jul-24 to 126.29% at the end of August-24 and Rural Tele-density also decreased from 59.14% to 58.74% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.41% and 45.59% respectively at the end of Aug-24. Detailed statistics of wireless subscriber base is available at **Annexure-II**.

- As on 31<sup>st</sup> August, 2024, the private access service providers held 92% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 8%.
- 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 31<sup>st</sup> August, 2024**

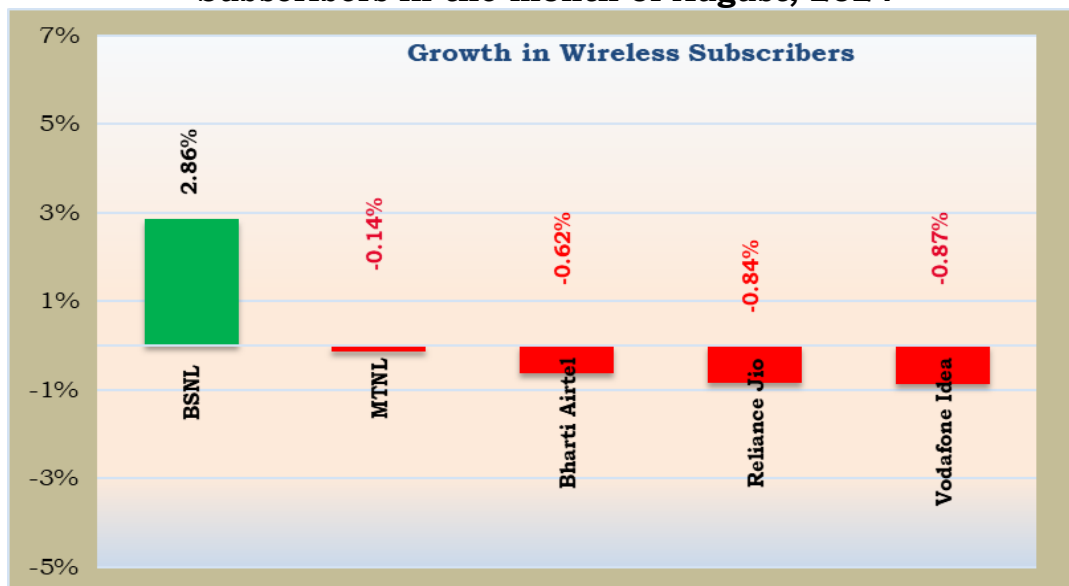


**Net Addition in Wireless Subscribers of Access Service Providers in the month of August, 2024**



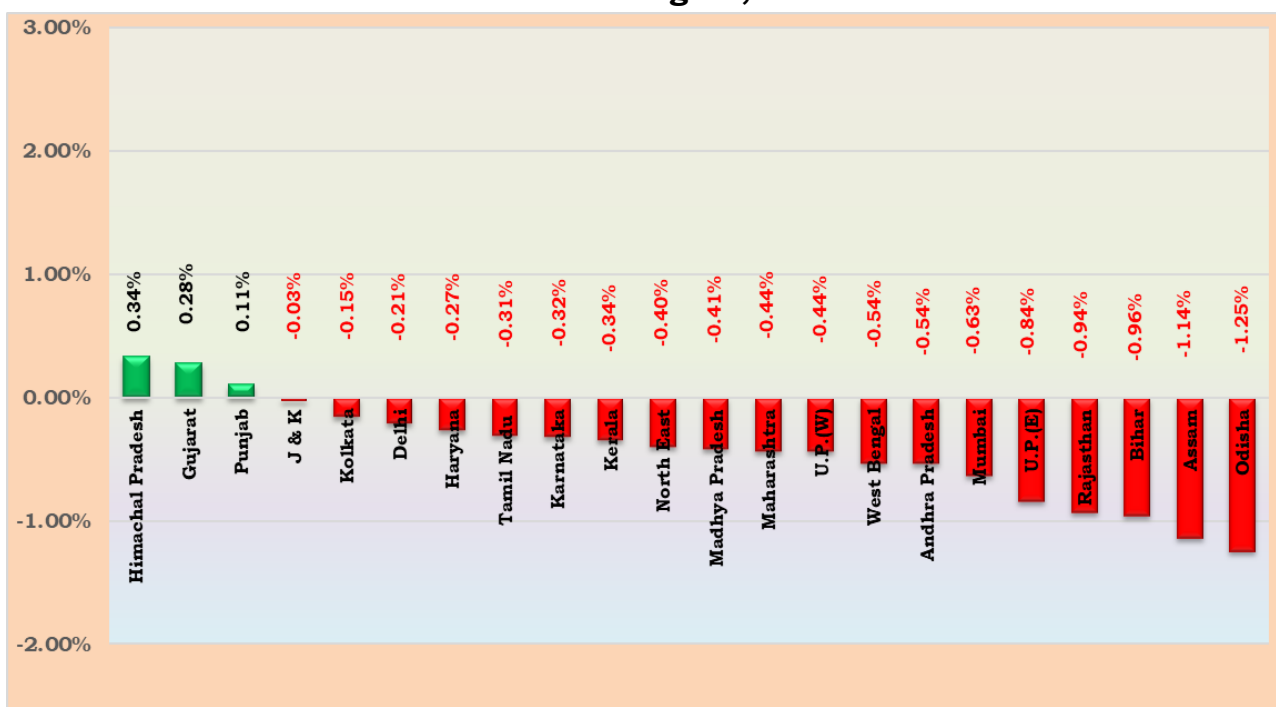
## Growth in Wireless Subscribers

**Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the month of August, 2024**



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

**Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of August, 2024**

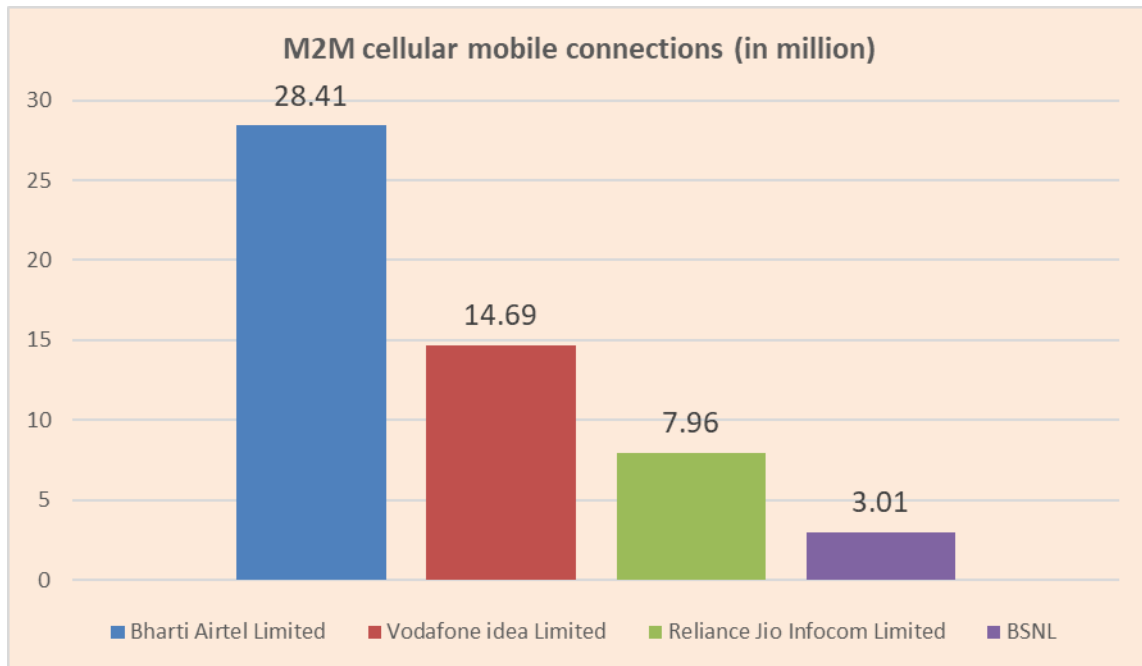


- Except Himachal Pradesh, Gujarat and Punjab all other service areas have showed decline in their wireless subscribers during the month of August-24.



## M2M cellular mobile connections

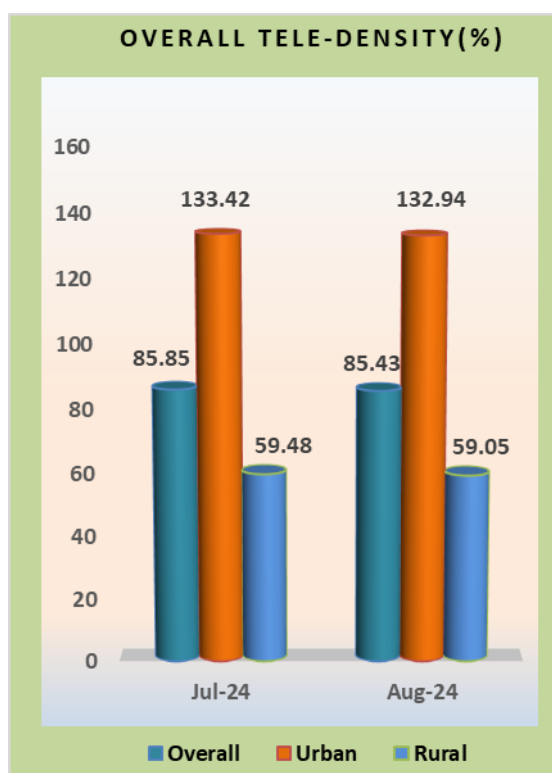
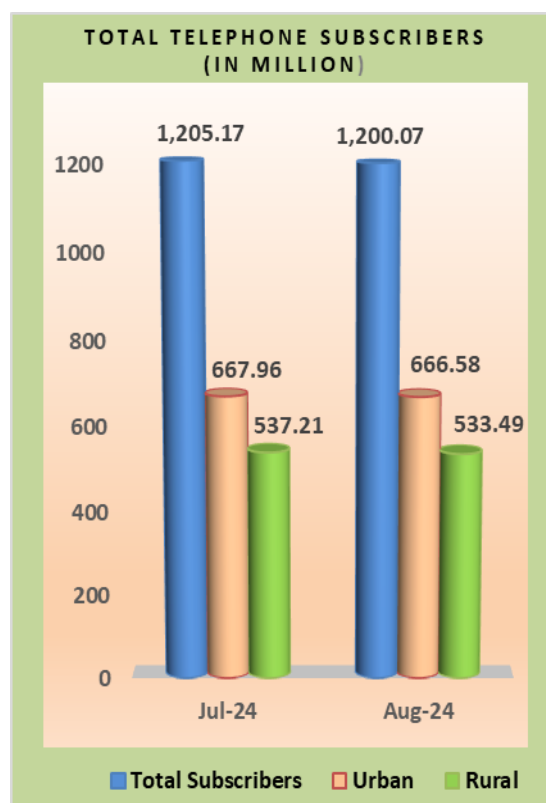
Number of M2M cellular mobile connections increased from 53.67 million at the end of July, 24, to 54.07 million at the end of August, 24.



Bharti Airtel Limited has the highest number of M2M cellular mobile connections 28.41 million with a market share of 52.54% followed by Vodafone idea Limited, Reliance Jio Infocom Limited and BSNL with market share of 27.18%, 14.72% and 5.56% respectively.

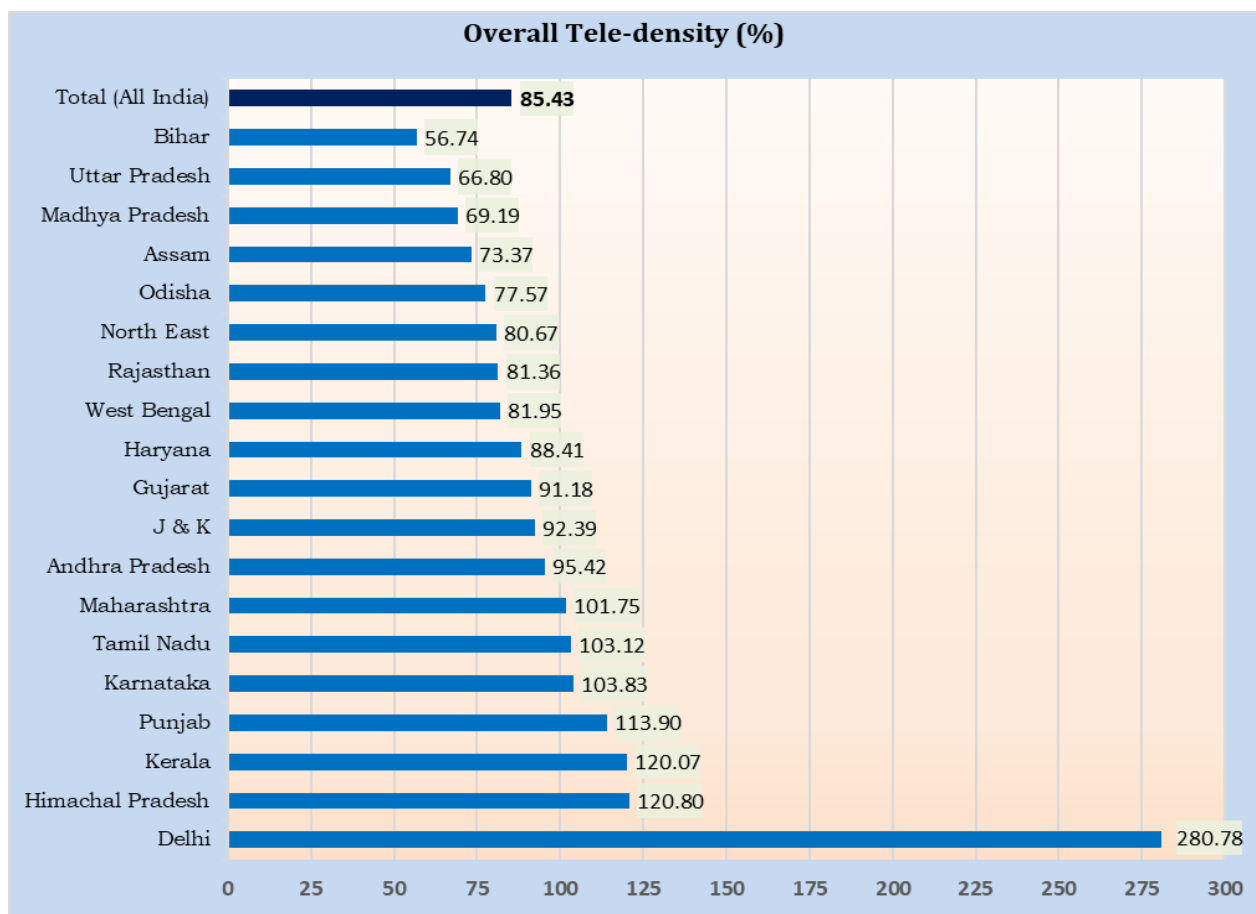
#### IV. Total Telephone Subscribers

- The number of total telephone subscribers in India decreased from 1,205.17 million at the end of Jul-24 to 1,200.07 million at the end of Aug-24, thereby showing a monthly decline rate of 0.42%. Urban telephone subscription decreased from 667.96 million at the end of Jul-24 to 666.58 million at the end of Aug-24 and the rural subscription also decreased from 537.21 million to 533.49 million during the same period. The monthly decline rates of urban and rural telephone subscription were 0.21% and 0.69% respectively during the month of August-24.



- The overall Tele-density in India decreased from 85.85% at the end of Jul-24 to 85.43% at the end of Aug-24. The Urban Tele-density decreased from 133.42% at the end of Jul-24 to 132.94% at the end of Aug-24 and Rural Tele-density also decreased from 59.48% to 59.05% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of August-24 were 55.54% and 44.46% respectively.

## Overall Tele-density (LSA Wise) – As on 31<sup>st</sup> August, 2024



- 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 August-24. Delhi service area has maximum tele-density of 280.78% and the Bihar service area has minimum tele-density of 56.74% at the end of August-24.

### 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.

## V. Category-wise Growth in subscriber base

### Circle Category-wise Net Additions in Telephone Subscribers in the month of August, 2024

Circle Category	Net additions in the month of August, 2024		Telephone Subscriber base as on 31 <sup>st</sup> August, 2024	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	248906	-1132270	14055442	387651400
Circle B	243317	-2592258	9921102	472634280
Circle C	93194	-1677685	2982528	189340879
Metro	88943	-368915	9275383	114208245
<b>All India</b>	<b>674360</b>	<b>-5771128</b>	<b>36234455</b>	<b>1163834804</b>

### Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of August, 2024

Circle Category	Monthly growth rate (%) (July-24 to August-24)		Yearly growth rate (%) (August-23 to August-24)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.80%	-0.29%	16.83%	0.74%
Circle B	2.51%	-0.55%	27.17%	1.50%
Circle C	3.23%	-0.88%	32.22%	2.22%
Metro	0.97%	-0.32%	6.75%	1.30%
<b>All India</b>	<b>1.90%</b>	<b>-0.49%</b>	<b>17.73%</b>	<b>1.34%</b>

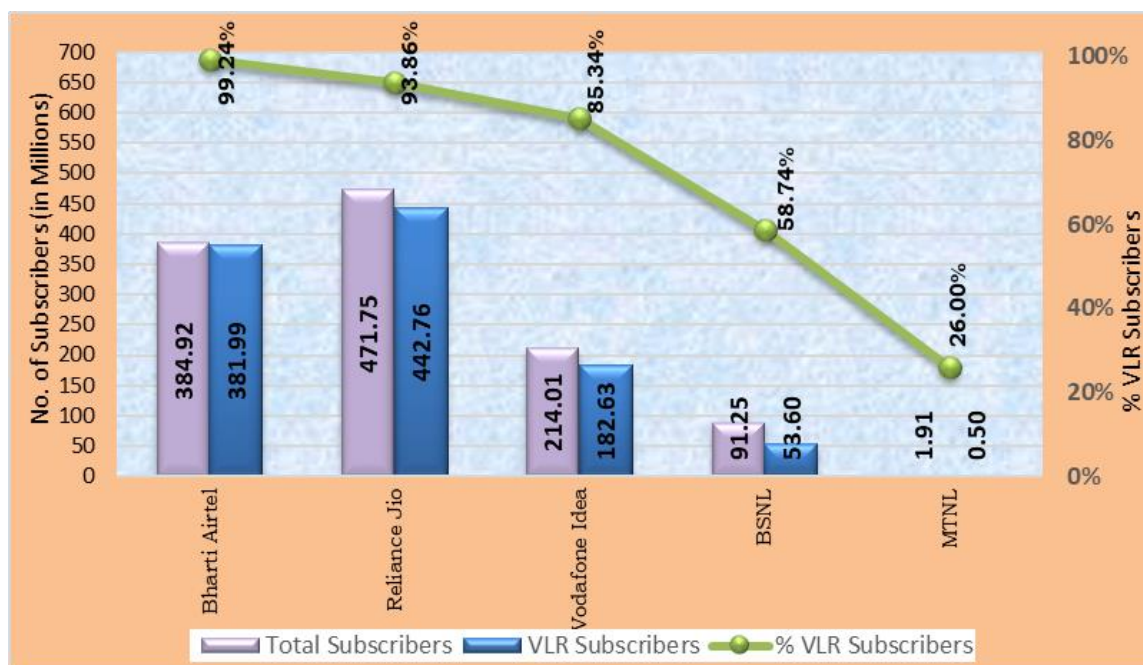
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

- As can be seen in the above tables, in wireless segment, during the month of August, 2024, on monthly basis all circles have registered decline rate in their subscriber base. On yearly basis all circles have registered growth rate in their subscriber base.
- In Wireline segment, during the month of August, 2024, both on monthly and yearly basis, all circles have registered growth rate in their subscriber base.

## VI. Active Wireless Subscribers (VLR Data)

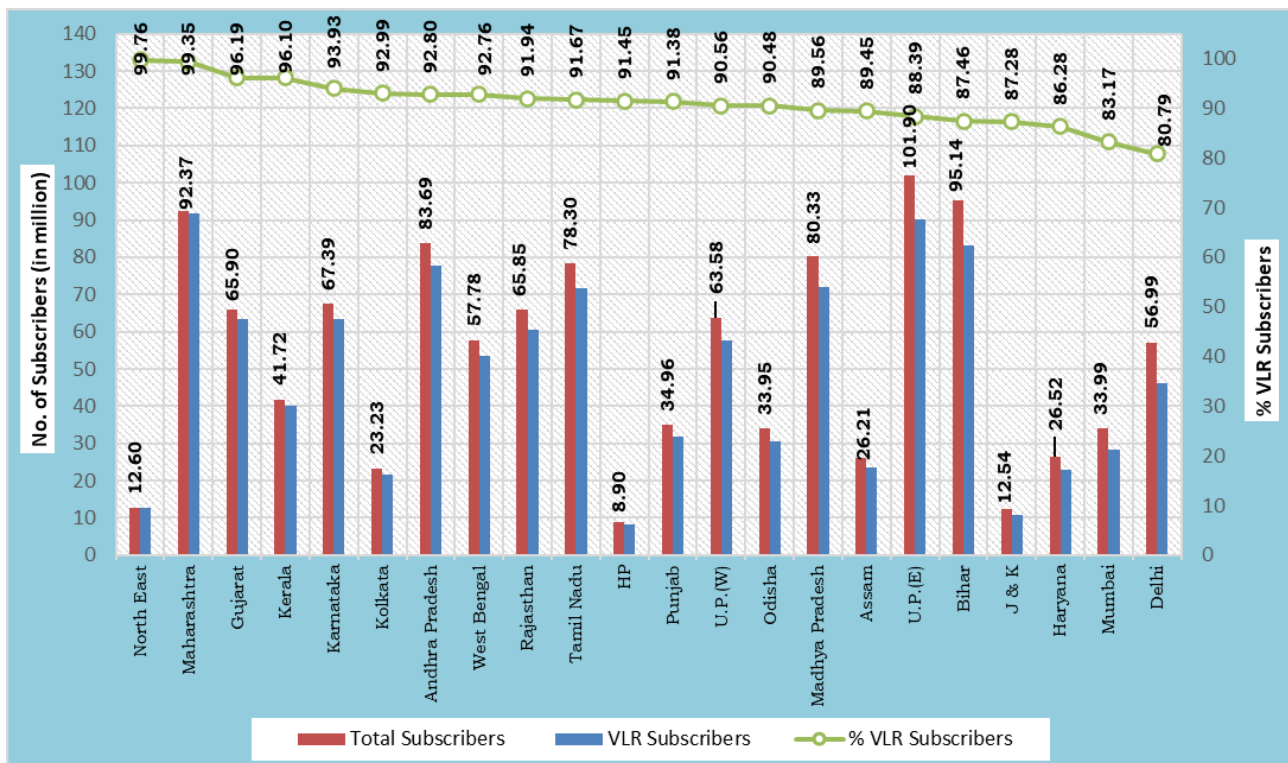
- Out of the total 1,163.83 million wireless subscribers, 1061.48 million wireless subscribers were active on the date of peak VLR in the month of August-24. The proportion of active wireless subscribers was approximately 91.21% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of August-24 is available at **Annexure-III** 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 August, 2024**



- Bharti Airtel Limited has the maximum proportion 99.24% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of August-24 and MTNL has the minimum proportion of VLR 26% of its HLR during the same period.

### Service Area wise percentage of VLR Subscribers in the month of August, 2024



### VII. 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 August-24, a total of 14.66 million requests were received for MNP. Out of total 14.66 million, new requests received from Zone-I & Zone-II were 8.16 million and 6.50 million respectively. The cumulative MNP requests increased from 1011.13 million at the end of July-24 to 1025.78 million at the end of August-24, since the implementation of MNP.
- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Uttar Pradesh-East (about 98.73 million) followed by Maharashtra (about 83.95 million) service area.

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Madhya Pradesh (about 79.85 million) followed by Karnataka (about 69.67 million).

<b>Service Area Wise MNP Status</b>					
<b>Zone-I</b>			<b>Zone-II</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>Jul-24</b>	<b>Aug-24</b>		<b>Jul-24</b>	<b>Aug-24</b>
Delhi	48.50	49.08	Andhra Pradesh	67.39	68.18
Gujarat	68.81	69.80	Assam	7.35	7.48
Haryana	31.98	32.42	Bihar	56.75	57.81
Himachal Pradesh	4.31	4.37	Karnataka	69.00	69.67
Jammu & Kashmir	2.71	2.79	Kerala	24.32	24.63
Maharashtra	82.76	83.95	Kolkata	18.63	18.86
Mumbai	34.08	34.35	Madhya Pradesh	78.58	79.85
Punjab	33.63	34.03	North East	2.34	2.37
Rajasthan	68.94	69.75	Odisha	17.82	18.05
U.P.(East)	96.80	98.73	Tamil Nadu	64.36	65.11
U.P.(West)	73.42	74.83	West Bengal	58.65	59.68
<b>Total</b>	<b>545.93</b>	<b>554.09</b>	<b>Total</b>	<b>465.19</b>	<b>471.69</b>
<b>Total (Zone-I + Zone-II)</b>				<b>1,011.13</b>	<b>1,025.78</b>
<b>Net Addition (August, 2024)</b>		<b>14.66 million</b>			

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

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**(Atul Kumar Chaudhary)**  
**Secretary, TRAI**

**Wireline Subscriber Base**

**Annexure-I**

Service Area	BSNL		MTNL		Bharti Airtel		Reliance Com.		Tata Tele.		Quadrant		Vodafone Idea		Reliance Jio		V-CON Mobile & Infra Pvt. Ltd.		APSFLL		Total		Net Addition
	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	
Andhra Pradesh	518416	511532			681693	690330	17656	17286	247288	248049			105145	105965	1624678	1692414			638432	638449	3833308	3904025	70717
Assam	82,829	71,026			37481	38703	0	0	0	0			2520	2490	228191	242782					351021	355001	3980
Bihar	152,727	152,183			266754	272313	9	9	11871	11753			5490	5460	674428	721152					1111279	1162870	51591
Delhi	0	0	983492	980472	2192361	2206303	16286	15605	222166	223985			85436	85116	1098095	1131512					4597836	4642993	45157
Gujarat	291535	289036			288806	294149	2763	2763	180876	187807			113876	117866	827002	865931					1704858	1757552	52694
Haryana	217203	219498			198867	202937	0	0	40941	40980			420	450	191947	211071					649378	674936	25558
Himachal Pradesh	89728	89528			10706	11060	0	0	1480	1415			90	90	76764	81415					178768	183508	4740
J & K	65862	64403			122007	122970	0	0	0	0			30	30	242951	254754					430850	442157	11307
Karnataka	511452	506689			1257652	1245009	16091	16086	437337	445557			156575	161275	1134354	1174721					3513461	3549337	35876
Kerala	1065379	1063873			112469	112110	2962	2925	18196	17907			6500	6950	361781	377753					1567287	1581518	14231
Kolkata	182308	183329			208490	209085	4366	4232	63847	64645			15500	15440	583777	604853					1058288	1081584	23296
Madhya Pradesh	232151	232466			578492	548954	5	5	48288	46904			70170	63735	938131	988352					1867237	1880416	13179
Maharashtra	511691	500733			523632	529393	7548	7519	224336	223629			20206	20316	441811	497313					1729224	1778903	49679
Mumbai	3561	3560	1106068	1098161	619794	623338	35210	34780	609226	617550			178849	180059	977608	993358					3530316	3550806	20490
North East	62356	61045			0	0	0	0	0	0			510	510	211846	220326					274712	281881	7169
Odisha	142014	136122			62850	64712	4	4	12928	12445			3700	3700	321208	340128					542704	557111	14407
Punjab	509306	512710			304325	307533	1845	1844	15913	15539	377822	355282	1590	1560	483989	521432	80407	87860			1775197	1803760	28563
Rajasthan	246281	244483			289967	293067	3301	3267	24190	23935			12125	12125	525690	561441					1101554	1138318	36764
Tamil Nadu	893398	887155			947392	958206	13928	13621	133685	135069			34475	34735	1002807	1036839					3025685	3065625	39940
U.P.(E)	106276	105060			236249	238636	31	31	12443	12345			17350	17620	675286	722701					1047635	1096393	48758
U.P.(W)	160826	160729			187555	190718	8	8	6995	6981			4111	4111	739475	783413					1098970	1145960	46990
West Bengal	189807	191043			63017	64266	26	26	2614	2573			150	150	314913	341743					570527	599801	29274
<b>Total</b>	<b>6235106</b>	<b>6186203</b>	<b>2089560</b>	<b>2078633</b>	<b>9190559</b>	<b>9223792</b>	<b>122039</b>	<b>120011</b>	<b>2314620</b>	<b>2339068</b>	<b>377822</b>	<b>355282</b>	<b>834818</b>	<b>839753</b>	<b>13676732</b>	<b>14365404</b>	<b>80407</b>	<b>87860</b>	<b>638432</b>	<b>638449</b>	<b>35560095</b>	<b>36234455</b>	<b>674360</b>
<b>Net Addition</b>		<b>-48903</b>		<b>-10927</b>		<b>33233</b>		<b>-2028</b>		<b>24448</b>		<b>-22540</b>		<b>4935</b>		<b>688672</b>		<b>7453</b>		<b>17</b>		<b>674360</b>	
<b>Rural Subscribers</b>	2190367	1960965	29	29	2561	2603	357	325	6874	6700	54574	58101	0	0	335662	363515	0	0	472440	472452	3062864	2864690	-198174



**Wireless Subscriber Base**

**Annexure-II**

Circle	Bharti Airtel (including Tata Tele.)		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	Jul-24	Aug-24	
Andhra Pradesh	33,989,599	33,802,351	0	0	10590428	10457668	6,578,913	6,855,104					32978117	32570216	84137057	83685339	-451718.00
Assam	11,970,108	11,863,283	0	0	1510887	1485672	3,033,387	2,993,033					10002075	9872296	26516457	26214284	-302173
Bihar	41,089,037	40,599,123	0	0	7591934	7564756	5,561,593	5,849,336					41812880	41122293	96055444	95135508	-919936
Delhi	18,301,168	18,330,214	0	0	16743602	16753908					1684191	1684274	20375069	20218058	57104030	56986454	-117576
Gujarat	11,916,953	11,966,970	0	0	20319894	20219824	2,899,535	3,130,938					30576502	30579662	65712884	65897394	184510
Haryana	7,092,103	7,060,416	0	0	6684372	6646717	4,081,920	4,115,406					8728381	8693206	26586776	26515745	-71031
Himachal Pradesh	3,592,169	3,572,415	0	0	388302	386325	1,568,692	1,625,405					3326011	3320829	8875174	8904974	29800
J & K	6,171,783	6,112,285	0	0	280195	277240	839,986	895,434					5252747	5255606	12544711	12540565	-4146
Karnataka	32,362,339	32,236,966	0	0	6398322	6344325	4,300,925	4,511,626					24544376	24298893	67605962	67391810	-214152
Kerala	8,779,707	8,761,014	0	0	13371728	13303055	8,605,862	8,678,415					11103636	10974715	41860933	41717199	-143734
Kolkata	5,604,615	5,538,557	0	0	5214201	5161501	1,525,975	1,615,508					10918837	10912480	23263628	23228046	-35582
Madhya Pradesh	16,241,312	16,223,521	0	0	15250808	15025854	4,875,012	5,028,617					44298910	44053945	80666042	80331937	-334105
Maharashtra	22,144,837	22,213,479	0	0	21727203	21603100	5,586,235	5,643,171					43319323	42912627	92777598	92372377	-405221
Mumbai	10,121,680	10,081,363	0	0	10709628	10700024					227566	224744	13150628	12987614	34209502	33993745	-215757
North East	6,313,850	6,237,710	0	0	710298	693923	1,245,260	1,284,846					4379819	4381906	12649227	12598385	-50842
Odisha	11,637,636	11,482,170	0	0	1397177	1404314	5,392,482	5,452,811					15950256	15607868	34377551	33947163	-430388
Punjab	12,515,326	12,418,200	0	0	6360326	6317007	3,908,114	4,088,583					12134660	12131893	34918426	34955683	37257
Rajasthan	23,433,054	23,140,674	0	0	10311213	10025018	5,567,277	5,589,613					27158930	27092955	66470474	65848260	-622214
Tamil Nadu	29,836,739	29,795,754	0	0	15333918	15229938	7,506,870	7,734,172	203,346	204,460			25669296	25340156	78550169	78304480	-245689
U.P.(E)	37,038,900	36,548,722	0	0	16917330	16641443	7,942,489	8,223,052					40871703	40490160	102770422	101903377	-867045
U.P.(W)	18,918,504	18,822,073	0	0	15321425	15186440	4,934,399	5,140,253					24686267	24431436	63860595	63580202	-280393
West Bengal	18,254,778	18,109,835	0	0	12749686	12580449	2,558,072	2,590,529					24530334	24501064	58092870	57781877	-310993
<b>Total</b>	<b>387326197</b>	<b>384917095</b>	<b>0</b>	<b>0</b>	<b>215882877</b>	<b>214008501</b>	<b>88512998</b>	<b>91045852</b>	<b>203346</b>	<b>204460</b>	<b>1911757</b>	<b>1909018</b>	<b>475768757</b>	<b>471749878</b>	<b>1169605932</b>	<b>1163834804</b>	<b>-5771128</b>
<b>Net Addition</b>		<b>-2409102</b>		<b>0</b>		<b>-1874376</b>		<b>2532854</b>		<b>1114</b>		<b>-2739</b>		<b>-4018879</b>	0	<b>-5771128</b>	
<i>Rural Subscribers</i>	189,364,577	187,699,484	0	0	105747489	104500898	28,401,681	29,480,282	0	0	35200	35201	210597046	208910259	534145993	530626124	-3519869

Proportion of VLR on the date of Peak VLR in the month of Aug-24 (%)							Annexure-III
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	99.52	67.28	91.70		-	91.55	<b>92.80</b>
Assam	99.53	25.91	92.43		-	96.17	<b>89.45</b>
Bihar	91.18	38.96	82.94		-	91.51	<b>87.46</b>
Delhi	95.64		55.98	18.92	-	93.03	<b>80.79</b>
Gujarat	108.98	61.83	91.35		-	97.89	<b>96.19</b>
Haryana	99.36	32.96	90.87		-	97.38	<b>86.28</b>
Himachal Pradesh	98.77	53.94	105.17		-	100.35	<b>91.45</b>
J & K	92.81	64.59	82.93		-	84.94	<b>87.28</b>
Karnataka	99.85	64.25	80.12		-	95.18	<b>93.93</b>
Kerala	101.10	98.47	93.90		-	92.92	<b>96.10</b>
Kolkata	97.17	75.43	88.36		-	95.66	<b>92.99</b>
Madhya Pradesh	99.37	45.10	82.24		-	93.51	<b>89.56</b>
Maharashtra	106.94	80.29	89.91		-	102.68	<b>99.35</b>
Mumbai	88.43		72.19	79.07	-	88.20	<b>83.17</b>
North East	105.73	54.83	94.77		-	105.22	<b>99.76</b>
Odisha	103.64	48.00	92.09		-	95.49	<b>90.48</b>
Punjab	102.29	53.22	91.54		-	92.99	<b>91.38</b>
Rajasthan	101.53	46.37	89.27		-	94.13	<b>91.94</b>
Tamil Nadu	100.45	75.14	90.08		-	87.48	<b>91.67</b>
U.P. (E)	96.75	41.13	85.81		-	91.50	<b>88.39</b>
U.P. (W)	103.32	47.20	89.22		-	90.70	<b>90.56</b>
West Bengal	99.86	71.86	87.38		-	92.50	<b>92.76</b>
<b>Total</b>	<b>99.24</b>	<b>58.74</b>	<b>85.34</b>	<b>26.00</b>	-	<b>93.86</b>	<b>91.21</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.

## 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.