



सत्यमेव जयते

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 23<sup>rd</sup> December, 2024

(www.trai.gov.in)

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

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Broadband Subscribers</b> (Million)	<b>896.81</b>	<b>44.66</b>	<b>941.47</b>
<b>Urban Telephone Subscribers</b> (Million)	<b>625.56</b>	<b>34.86</b>	<b>660.42</b>
Net Addition in October, 2024 (Million)	-2.56	0.83	-1.73
Monthly Growth Rate	-0.41%	2.44%	-0.26%
<b>Rural Telephone Subscribers</b> (Million)	<b>524.86</b>	<b>2.93</b>	<b>527.79</b>
Net Addition in October, 2024 (Million)	-0.74	0.02	-0.72
Monthly Growth Rate	-0.14%	0.84%	-0.14%
<b>Total Telephone Subscribers</b> (Million)	<b>1150.42</b>	<b>37.79</b>	<b>1188.20</b>
Net Addition in October, 2024 (Million)	-3.31	0.85	-2.45
Monthly Growth Rate	-0.29%	2.31%	-0.21%
<b>Overall Tele-density*(%)</b>	<b>81.77%</b>	<b>2.69%</b>	<b>84.46%</b>
Urban Tele-density*(%)	124.38%	6.93%	131.31%
Rural Tele-density*(%)	58.06%	0.32%	58.39%
Share of Urban Subscribers	54.38%	92.25%	55.58%
Share of Rural Subscribers	45.62%	7.75%	44.42%

- ❖ In the month of October, 2024, 13.45 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 1039.11 million at the end of September-24 to 1052.56 million at the end of October-24, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in October, 2024 was 1066.67 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 1175 operators in October, 2024, in comparison to 1167 Operators in September 2024, the total Broadband Subscribers decreased from 944.40 million at the end of September-24 to 941.47 million at the end of October-24 with a monthly decline rate of 0.31%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

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

Segment	Broadband subscribers (in million)		Monthly growth rate in the month of October, 2024
	As on 30 <sup>th</sup> September 2024	As on 31 <sup>st</sup> October 2024	
Wired subscribers	43.63	44.66	2.37%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.99	0.76	-22.72*%
Mobile devices users (Phones and dongles)	899.79	896.05	-0.42%
<b>Total</b>	<b>944.40</b>	<b>941.47</b>	<b>-0.31%</b>

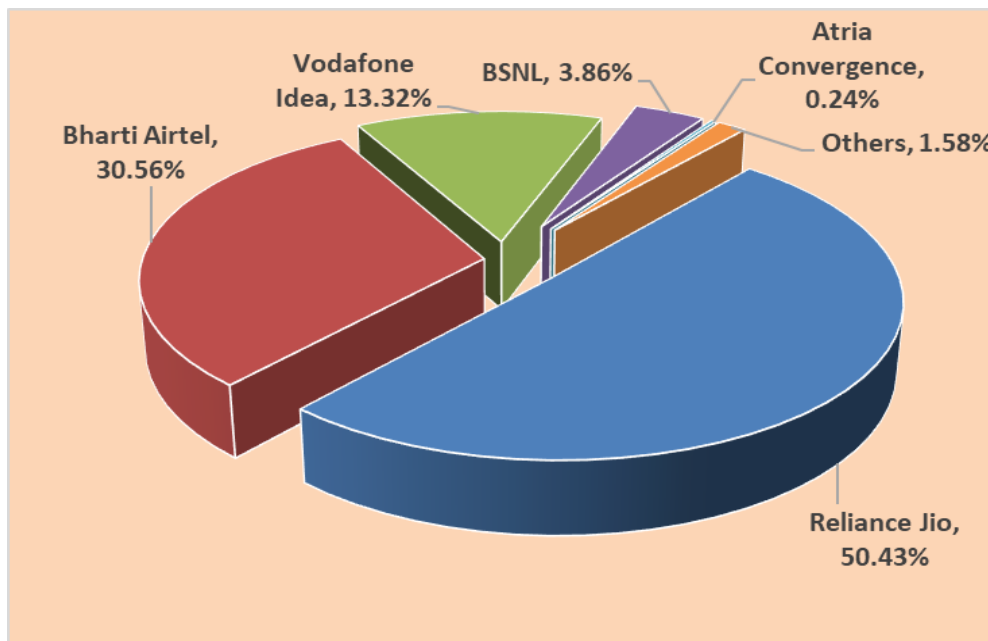
\*Decline in Fixed Wireless segment is primarily due to change in reporting of FWA (5G) subscribers count in wireline broadband by M/s Bharti Airtel Ltd in the month of October 2024.

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

S.N.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	474.81
2.	Bharti Airtel Ltd.	287.67
3.	Vodafone Idea Ltd.	125.43
4.	Bharat Sanchar Nigam Ltd.	36.38
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> October, 2024**



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

S.N.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	14.79
2.	Bharti Airtel Ltd.	8.91
3.	Bharat Sanchar Nigam Ltd.	4.22
4.	Atria Convergence Technologies Limited	2.27
5.	Kerala Vision Broadband Ltd.	1.24
<b>Market Share of Top Five Vs Total Wired Broadband</b>		<b>70.39%</b>

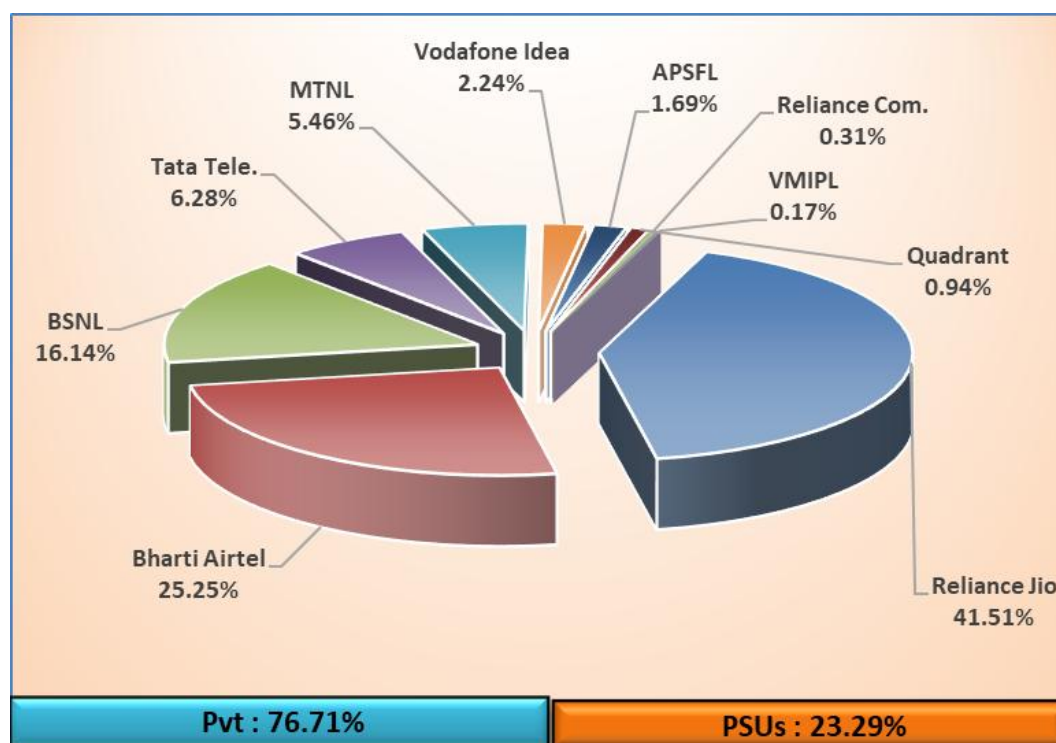
**As on 31<sup>st</sup> October, 2024, top five Wireless Broadband Service providers**

S.N.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd.	460.02
2.	Bharti Airtel Ltd.	278.76
3.	Vodafone Idea Ltd.	125.43
4.	Bharat Sanchar Nigam Ltd.	32.15
5.	Intech Online Pvt. Ltd.	0.25
<b>Market Share of Top Five Vs Total Wireless Broadband</b>		<b>99.98%</b>

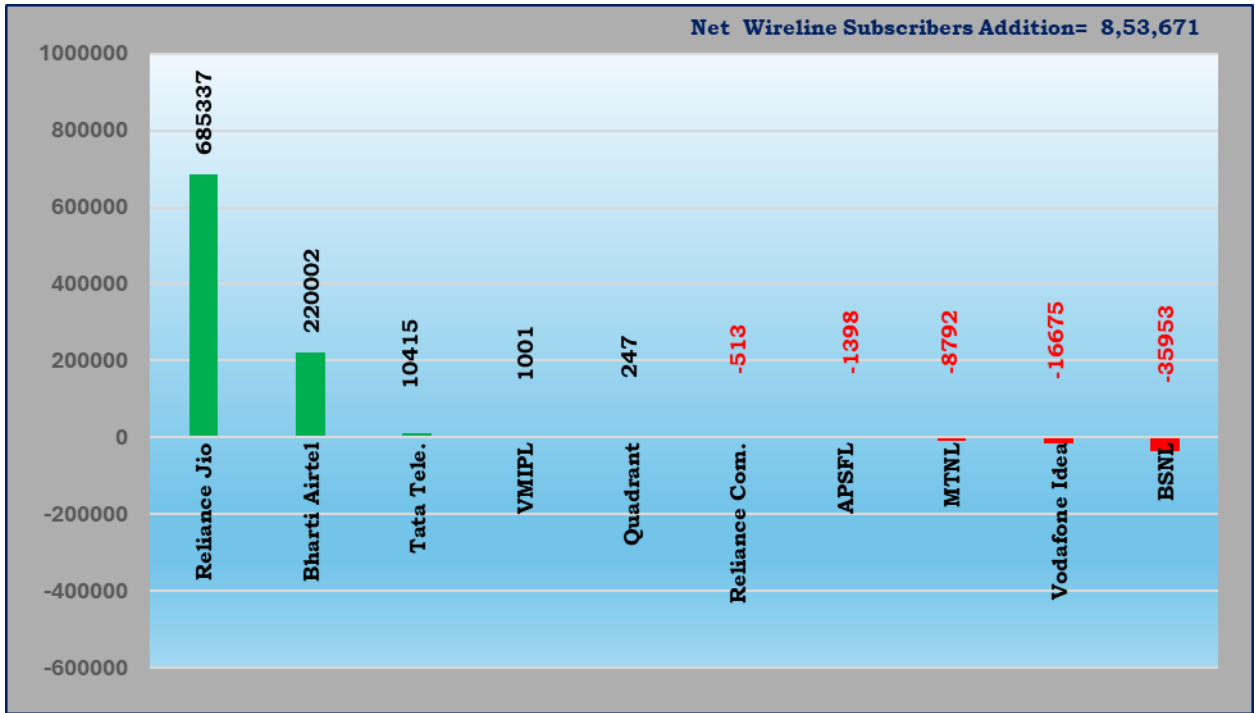
## II. Wireline Subscribers

- Wireline subscribers increased from 36.93 million at the end of September-24 to 37.79 million at the end of October-24. Net increase in the wireline subscriber base was 0.85 million with a monthly rate of growth 2.31%. The share of urban and rural subscribers in total wireline subscribers were 92.25% and 7.75% respectively at the end of October, 2024.
- The Overall Wireline Tele-density in India increased from 2.63% at the end of September-24 to 2.69% at the end of October-24. Urban and Rural Wireline Tele-density were 6.93% and 0.32% respectively during the same period.
- BSNL, MTNL and APSFL, the three PSUs access service providers, held 23.29% of the wireline market share as on 31<sup>st</sup> October, 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> October, 2024



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



### III. Wireless subscriber

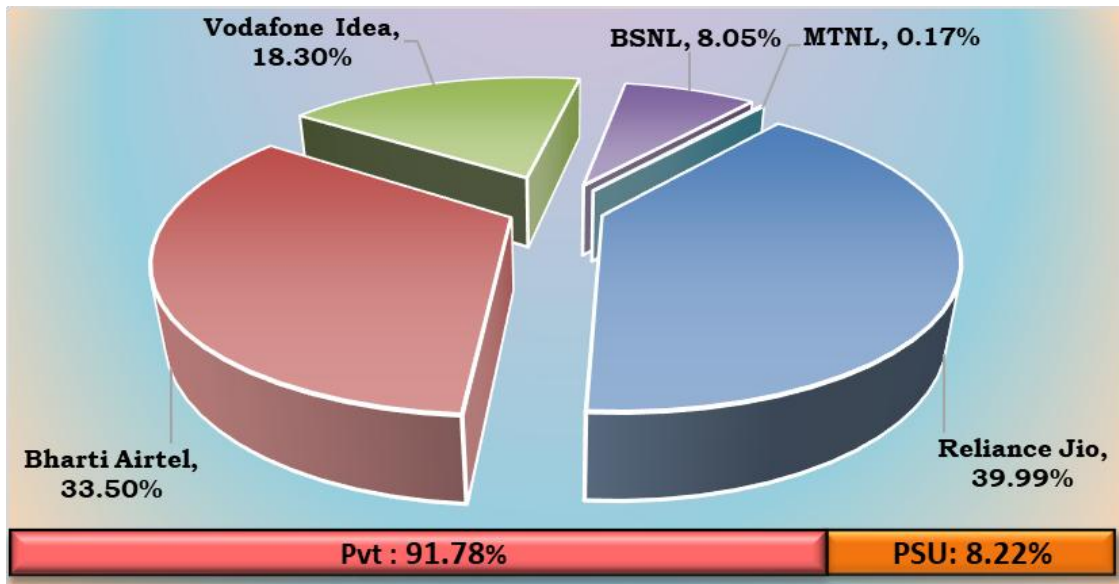
- Total wireless subscribers decreased from 1,153.72 million at the end of September-24, to 1,150.42 million at the end of October-24, thereby registering a monthly decline rate of 0.29%. Wireless subscription in urban areas decreased from 628.12 million at the end of September-24 to 625.56 million at the end of October-24, and wireless subscription in rural areas also decreased from 525.60 million to 524.86 million during the same period. Monthly decline rate of urban and rural wireless subscription was 0.41% and 0.14% respectively.



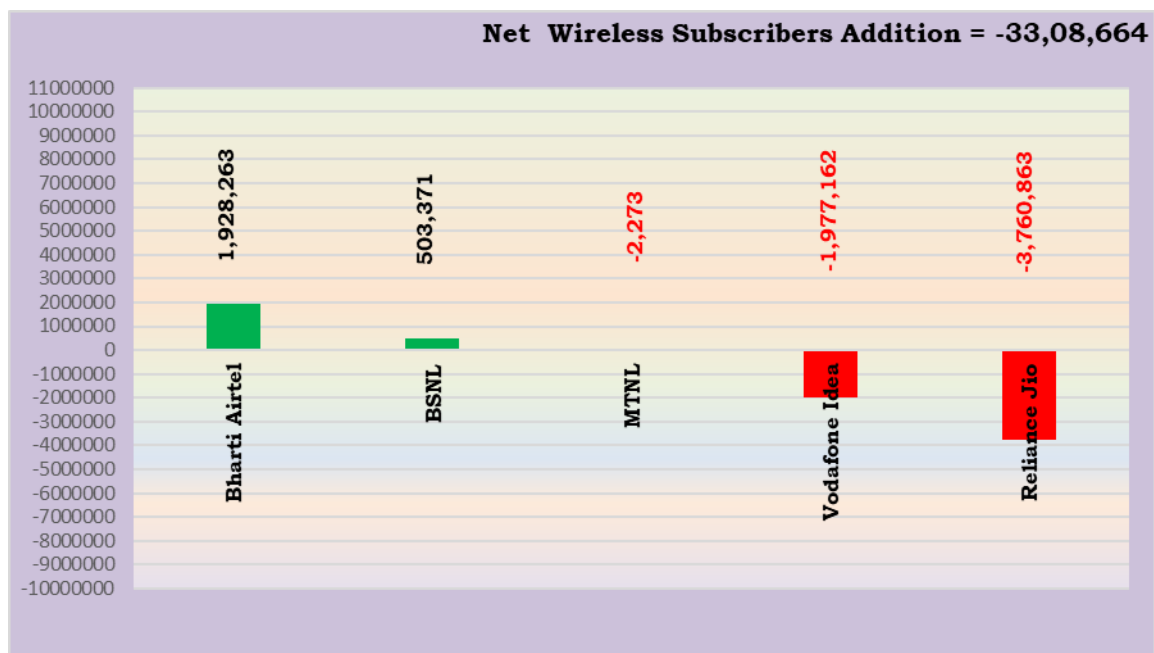
- The Wireless Tele-density in India decreased from 82.07% at the end of September-24 to 81.77% at the end of October-24. The Urban Wireless Tele-density decreased from 125.08% at the end of September-24 to 124.38% at the end of October-24 and Rural Tele-density also decreased from 58.16% to 58.06% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.38% and 45.62% respectively at the end of Oct-24. Detailed statistics of wireless subscriber base is available at **Annexure-II**.

- As on 31<sup>st</sup> October, 2024, the private access service providers held 91.78% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 8.22%.
- 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> October, 2024**

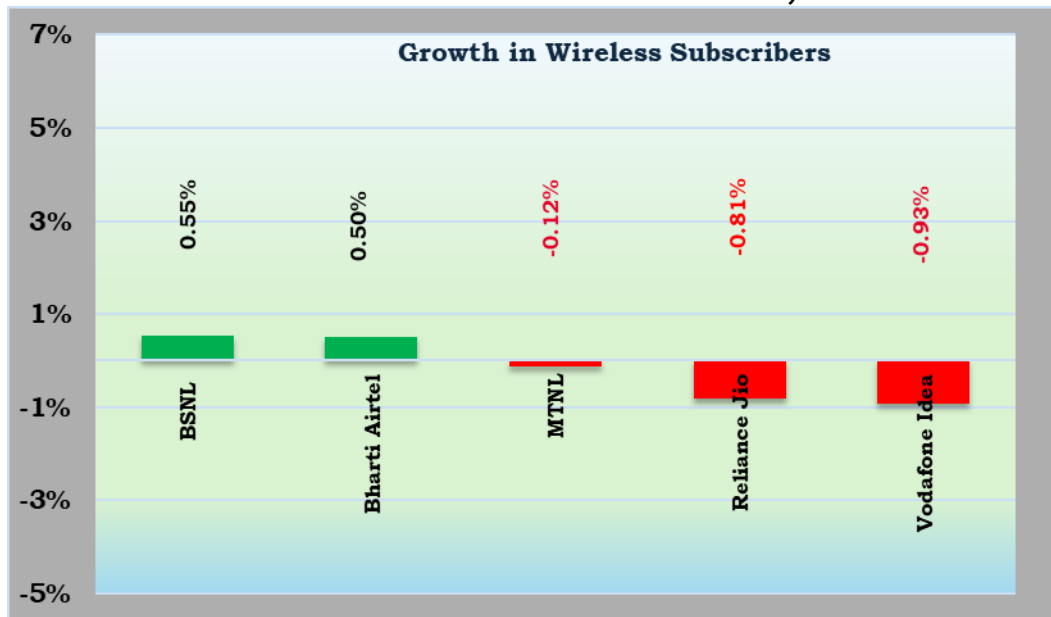


**Net Addition in Wireless Subscribers of Access Service Providers in the month of October, 2024**



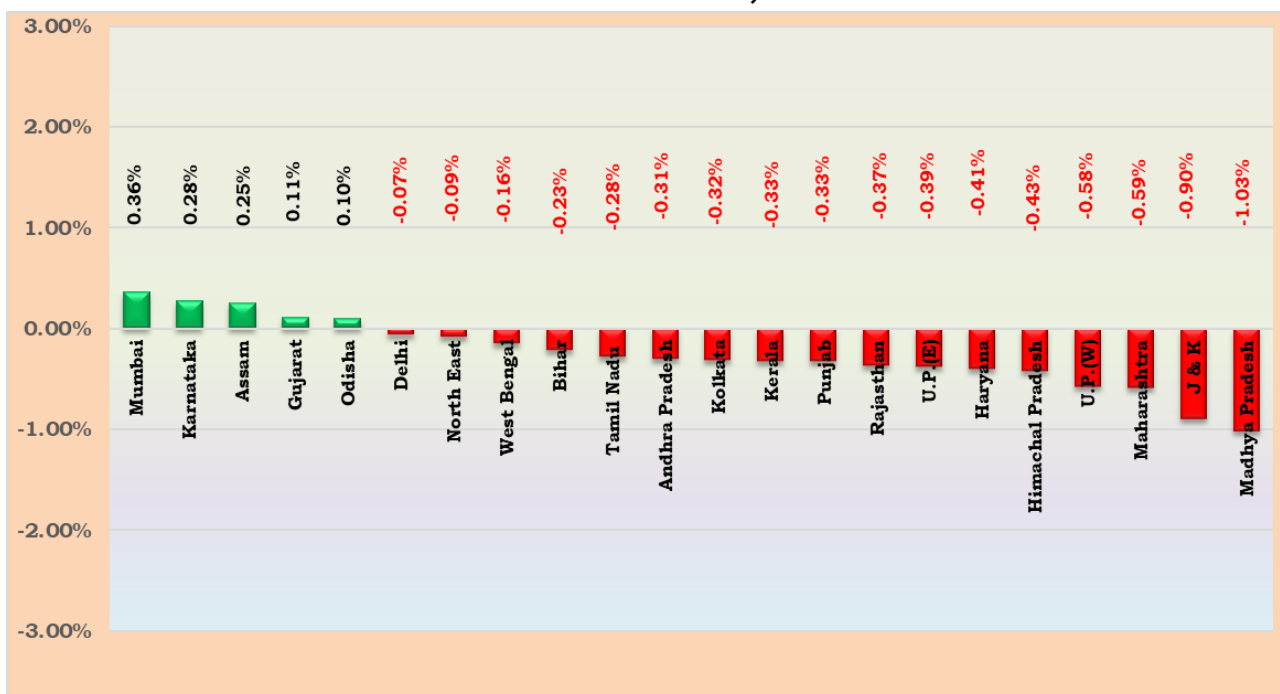
## Growth in Wireless Subscribers

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



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

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

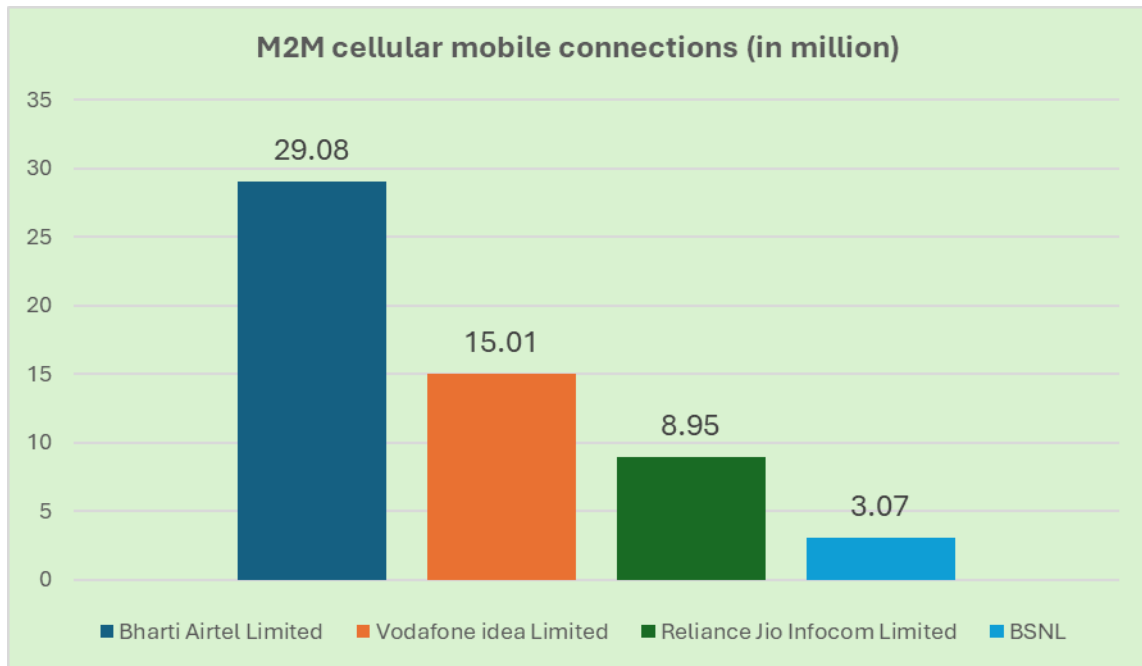


- Except Mumbai, Karnataka, Assam, Gujarat and Odisha, all other service areas have showed decline in their wireless subscribers during the month of October-24.



## M2M cellular mobile connections

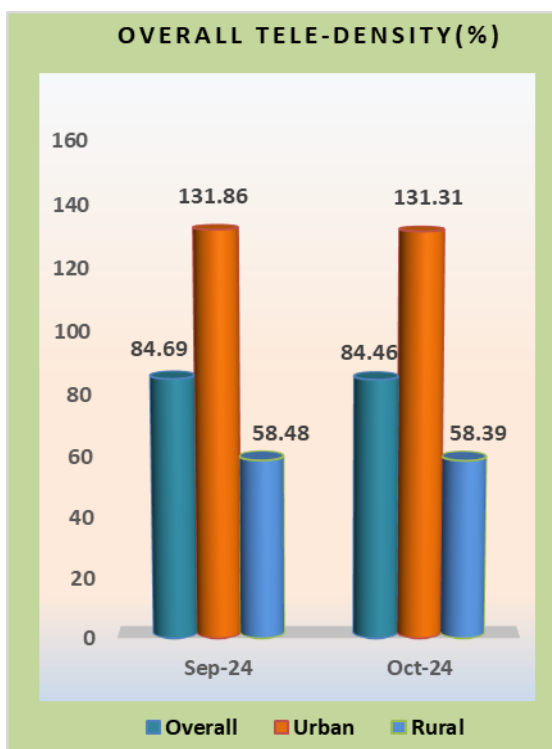
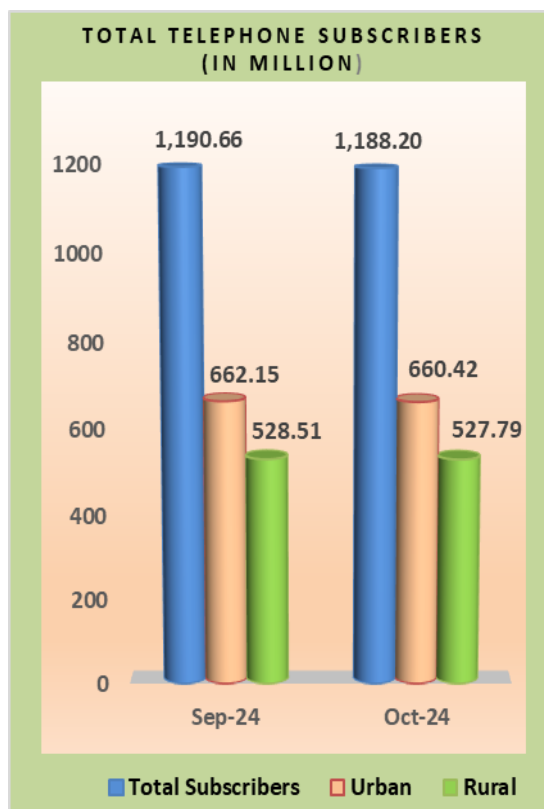
Number of M2M cellular mobile connections increased from 54.64 million at the end of September, 24, to 56.12 million at the end of October, 24.



Bharti Airtel Limited has the highest number of M2M cellular mobile connections 29.08 million with a market share of 51.82% followed by Vodafone idea Limited, Reliance Jio Infocom Limited and BSNL with market share of 26.75%, 15.95% and 5.48% respectively.

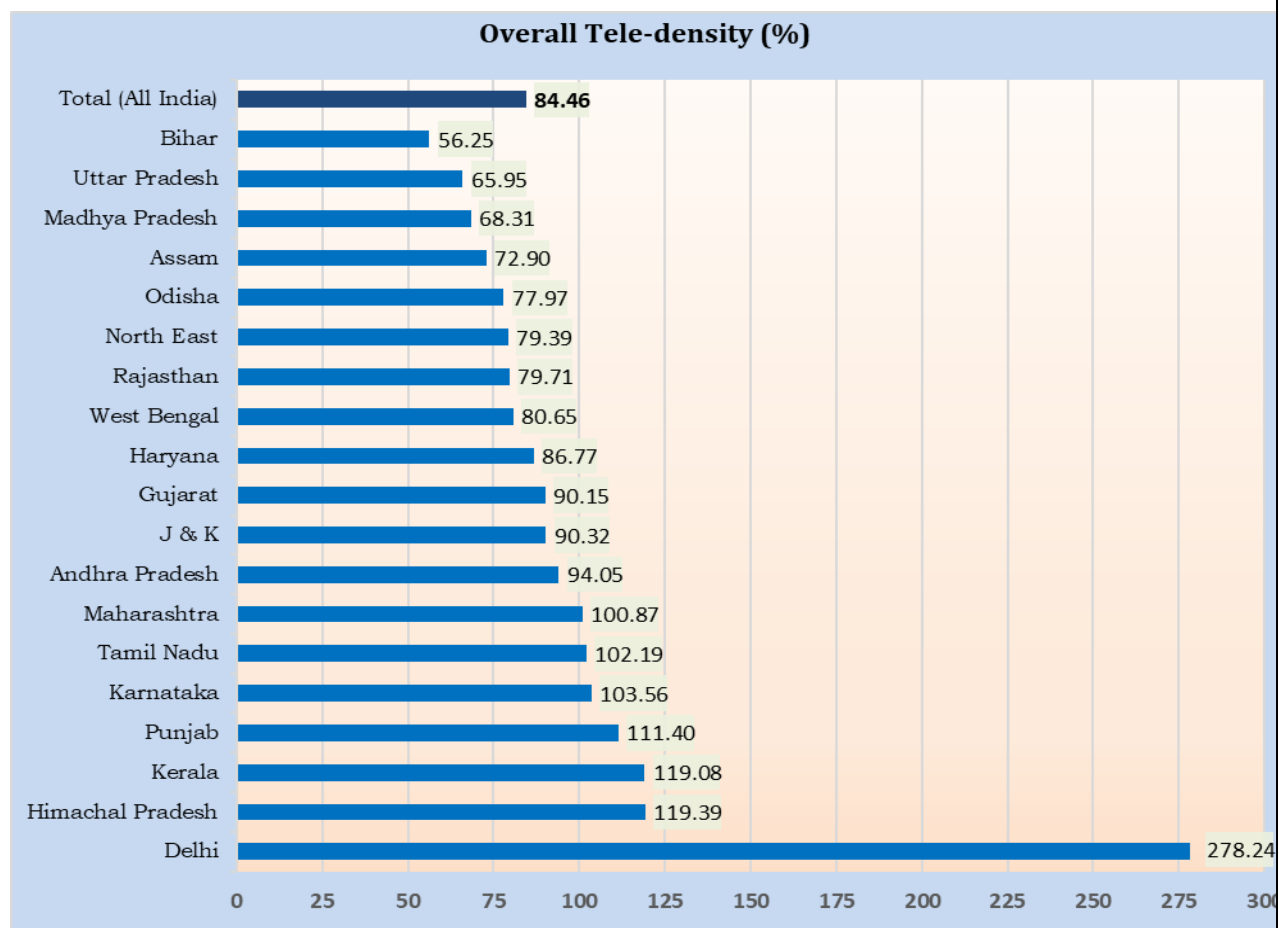
#### IV. Total Telephone Subscribers

- The number of total telephone subscribers in India decreased from 1,190.66 million at the end of Sep-24 to 1,188.20 million at the end of Oct-24, thereby showing a monthly decline rate of 0.21%. Urban telephone subscription decreased from 662.15 million at the end of Sep-24 to 660.42 million at the end of Oct-24 and the rural subscription also decreased from 528.51 million to 527.79 million during the same period. The monthly decline rates of urban and rural telephone subscription were 0.26% and 0.14% respectively during the month of October-24.



- The overall Tele-density in India decreased from 84.69% at the end of Sep-24 to 84.46% at the end of Oct-24. The Urban Tele-density decreased from 131.86% at the end of Sep-24 to 131.31% at the end of Oct-24 and Rural Tele-density also decreased from 58.48% to 58.39% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of October-24 were 55.58% and 44.42% respectively.

## Overall Tele-density (LSA Wise) – As on 31<sup>st</sup> October, 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 October-24. Delhi service area has maximum tele-density of 278.24% and the Bihar service area has minimum tele-density of 56.25% at the end of October-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 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.

## V. Category-wise Growth in subscriber base

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

Circle Category	Net additions in the month of October, 2024		Telephone Subscriber base as on 31 <sup>st</sup> October, 2024	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	278922	-766359	14570080	383585210
Circle B	362180	-2275154	10552102	465710960
Circle C	109820	-276441	3174968	188039720
Metro	102749	9290	9488804	113079261
<b>All India</b>	<b>853671</b>	<b>-3308664</b>	<b>37785954</b>	<b>1150415151</b>

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

Circle Category	Monthly growth rate (%) (September-24 to October-24)		Yearly growth rate (%) (October-23 to October-24)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.95%	-0.20%	19.06%	-0.36%
Circle B	3.55%	-0.49%	32.01%	-0.28%
Circle C	3.58%	-0.15%	36.19%	1.34%
Metro	1.09%	0.01%	8.24%	-0.33%
<b>All India</b>	<b>2.31%</b>	<b>-0.29%</b>	<b>20.61%</b>	<b>-0.05%</b>

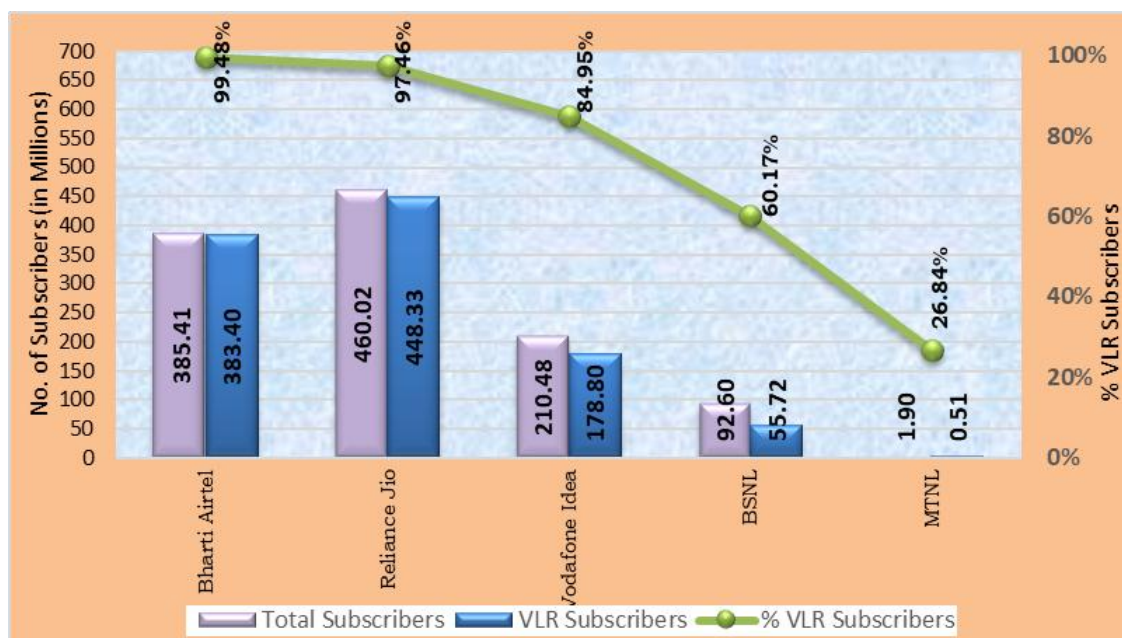
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

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

## VI. Active Wireless Subscribers (VLR Data)

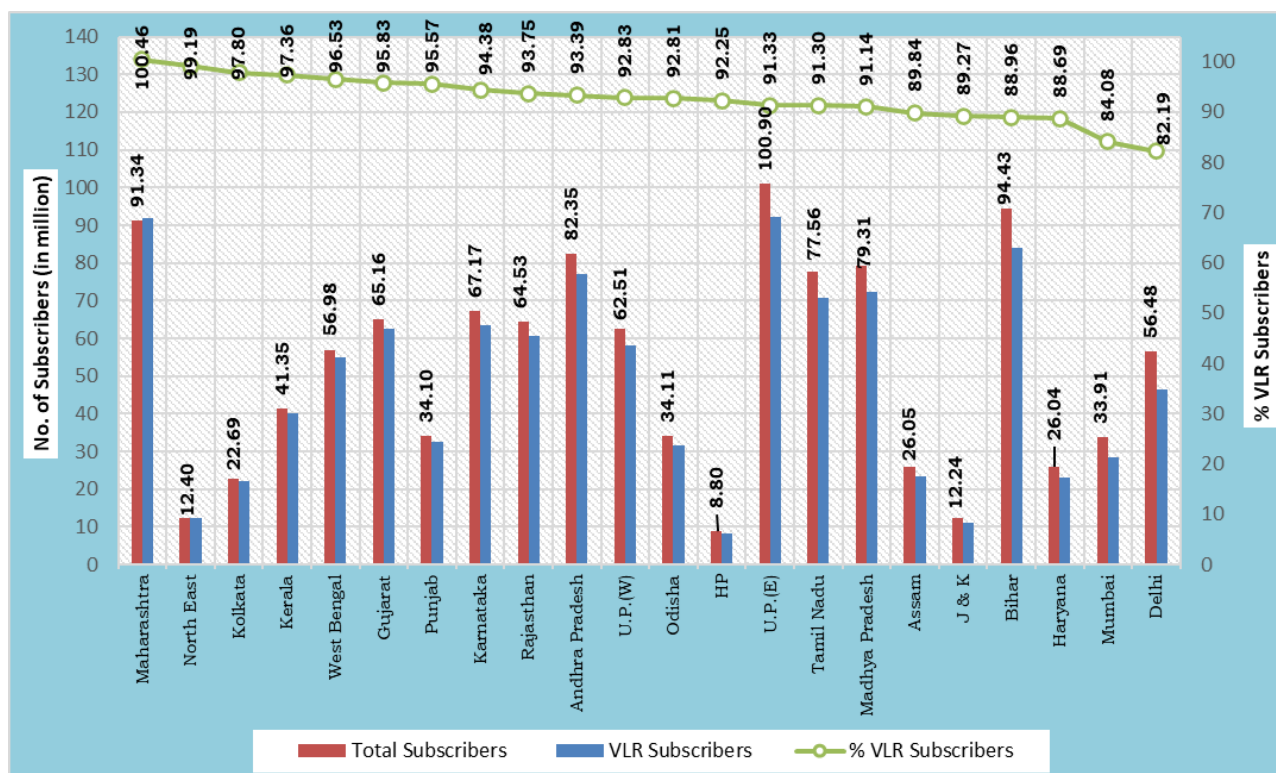
- Out of the total 1,150.42 million wireless subscribers, 1066.77 million wireless subscribers were active on the date of peak VLR in the month of October-24. The proportion of active wireless subscribers was approximately 92.73% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of October-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 October, 2024**



- Bharti Airtel Limited has the maximum proportion 99.48% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of October-24 and MTNL has the minimum proportion of VLR 26.84% of its HLR during the same period.

### Service Area wise percentage of VLR Subscribers in the month of October, 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 October-24, a total of 13.45 million requests were received for MNP. Out of total 13.45 million, new requests received from Zone-I & Zone-II were 7.52 million and 5.93 million respectively. The cumulative MNP requests increased from 1039.11 million at the end of September-24 to 1052.56 million at the end of October-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 102.49 million) followed by Maharashtra (about 85.95 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 82.28 million) followed by Karnataka (about 70.82 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>Sep-24</b>	<b>Oct-24</b>		<b>Sep-24</b>	<b>Oct-24</b>
Delhi	49.68	50.28	Andhra Pradesh	68.86	69.53
Gujarat	70.73	71.66	Assam	7.58	7.68
Haryana	32.83	33.22	Bihar	58.83	59.88
Himachal Pradesh	4.42	4.46	Karnataka	70.24	70.82
Jammu & Kashmir	2.85	2.91	Kerala	24.88	25.15
Maharashtra	84.93	85.95	Kolkata	19.06	19.24
Mumbai	34.61	34.90	Madhya Pradesh	81.06	82.28
Punjab	34.39	34.71	North East	2.40	2.43
Rajasthan	70.49	71.18	Odisha	18.26	18.45
U.P.(East)	100.56	102.49	Tamil Nadu	65.71	66.32
U.P.(West)	76.07	77.34	West Bengal	60.66	61.68
<b>Total</b>	<b>561.57</b>	<b>569.09</b>	<b>Total</b>	<b>477.53</b>	<b>483.46</b>
<b>Total (Zone-I + Zone-II)</b>				<b>1,039.11</b>	<b>1,052.56</b>
<b>Net Addition (October, 2024)</b>		<b>13.45 million</b>			

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

Shri Amit Sharma, Advisor (F&EA),  
Telecom Regulatory Authority of India  
World Trade Centre, Tower-F,  
Nauroji Nagar, New Delhi – 110029  
Ph: 011-20907772  
E-mail: [advfea2@traigov.in](mailto:advfea2@traigov.in)

**(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.		APSFL		Total		Net Addition
	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	
Andhra Pradesh	506357	504886			723908	739,563	17170	17255	234891	227597			103875	92835	1749696	1819626			638206	636808	3974103	4038570	64467
Assam	70,728	71636			39859	47,855	0	0	0	0			2490	2490	255301	268973					368378	390954	22576
Bihar	152,536	145451			258670	274,931	9	9	11747	11919			5580	5645	764161	809432					1192703	1247387	54684
Delhi	0	0	978856	976288	2236608	#####	15388	15059	227897	233480			85658	83528	1168499	1205415					4712906	4776531	63625
Gujarat	285282	282652			292293	295,747	2644	2615	188433	189427			125691	122451	909464	980909					1803807	1873801	69994
Haryana	222078	222520			183998	186139	0	0	41343	40829			450	510	230058	248007					677927	698005	20078
Himachal Pradesh	89903	88459			12941	13235	0	0	1411	1353			90	90	85325	89833					189670	192970	3300
J & K	63224	60787			123864	125123	0	0	0	0			30	30	265160	276351					452278	462291	10013
Karnataka	504471	505137			1257367	1263091	15958	16067	464580	467589			161675	163744	1218227	1244720					3622278	3660348	38070
Kerala	1069418	1069252			114885	116532	2752	2721	17629	17547			6920	7030	392144	406934					1603748	1620016	16268
Kolkata	181589	181110			209332	211542	3637	3635	64624	65592			15430	15834	622894	639379					1097506	1117092	19586
Madhya Pradesh	230307	228926			555411	570724	5	5	47797	52411			74805	74895	1029004	1077161					1937329	2004122	66793
Maharashtra	493343	487846			536297	554852	7351	7381	222847	222847			20381	19256	543588	594668					1823807	1886850	63043
Mumbai	3800	3800	1094084	1087860	627589	637229	34532	34351	624490	626842			184594	184316	1006554	1020783					3575643	3595181	19538
North East	60258	58718			0	0	0	0	0	0			510	510	228400	235884					289168	295112	5944
Odisha	135024	129819			62017	65814	4	4	16196	16667			3700	3550	356010	370400					572951	586254	13303
Punjab	515841	515243			314952	345914	1842	1812	15437	15494	355738	355,985	1560	1560	557717	591833	64096	65097			1827183	1892938	65755
Rajasthan	242958	241076			303966	308927	3085	3085	24184	24547			14145	14145	593117	625664					1181455	1217444	35989
Tamil Nadu	852627	857944			962649	969435	13340	13206	137201	136704			35115	34665	1066231	1098557					3067163	3110511	43348
U.P.(E)	106322	102324			243390	278800	27	27	12749	13107			17770	16710	768135	823207					1148393	1234175	85782
U.P.(W)	159535	157190			193474	195687	8	8	6943	6864			4151	4151	824699	868984					1188810	1232884	44074
West Bengal	188157	183029			68959	78530	22	21	2572	2570			150	150	365217	388218					625077	652518	27441
<b>Total</b>	<b>6133758</b>	<b>6097805</b>	<b>2072940</b>	<b>2064148</b>	<b>9322429</b>	<b>9542431</b>	<b>117774</b>	<b>117261</b>	<b>2362971</b>	<b>2373386</b>	<b>355738</b>	<b>355985</b>	<b>864770</b>	<b>848095</b>	<b>14999601</b>	<b>15684938</b>	<b>64096</b>	<b>65097</b>	<b>638206</b>	<b>636808</b>	<b>36932283</b>	<b>37785954</b>	<b>853671</b>
<b>Net Addition</b>		<b>-35953</b>		<b>-8792</b>		<b>220002</b>		<b>-513</b>		<b>10415</b>		<b>247</b>		<b>-16675</b>		<b>685337</b>		<b>1001</b>		<b>-1398</b>		<b>853671</b>	
<b>Rural Subscribers</b>	1978188	#####	29	29	2586	2,595	300	300	6562	6,466	60212	61,090	0	0	382542	406,993	0	0	472273	471238	2902692	2927068	24376



**Wireless Subscriber Base**

**Annexure-II**

Circle	Bharti Airtel		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	Sep-24	Oct-24	
Andhra Pradesh	33,608,237	33,741,507	0	0	10,317,179	10,223,247	6,748,163	6,747,075					31,933,802	31,642,502	<b>82607381</b>	<b>82354331</b>	-253050
Assam	11,754,115	11,890,497	0	0	1,471,300	1,465,211	2,963,211	2,984,559					9,796,756	9,710,611	<b>25985382</b>	<b>26050878</b>	65496
Bihar	40,272,539	40,526,286	0	0	7,521,467	7,493,956	6,022,905	6,049,430					40,831,802	40,364,110	<b>94648713</b>	<b>94433782</b>	-214931
Delhi	18,343,793	18,407,951	0	0	16,744,837	16,774,937					1,684,335	1,684,424	19,743,455	19,608,802	<b>56516420</b>	<b>56476114</b>	-40306
Gujarat	12,046,106	12,183,652	0	0	20,108,619	19,965,032	3,262,611	3,321,146					29,672,226	29,689,509	<b>65089562</b>	<b>65159339</b>	69777
Haryana	7,041,795	7,099,729	0	0	6,599,715	6,513,780	4,090,143	4,134,037					8,417,076	8,292,980	<b>26148729</b>	<b>26040526</b>	-108203
Himachal Pradesh	3,543,951	3,542,799	0	0	384,694	381,834	1,648,951	1,649,665					3,257,181	3,222,401	<b>8834777</b>	<b>8796699</b>	-38078
J & K	6,101,622	6,101,786	0	0	270,706	268,400	918,356	924,203					5,064,598	4,949,994	<b>12355282</b>	<b>12244383</b>	-110899
Karnataka	32,032,297	32,164,155	0	0	6,398,356	6,413,163	4,505,377	4,550,894					24,050,978	24,043,176	<b>66987008</b>	<b>67171388</b>	184380
Kerala	8,765,522	8,825,708	0	0	13,240,071	13,137,419	8,705,813	8,703,442					10,777,151	10,684,182	<b>41488557</b>	<b>41350751</b>	-137806
Kolkata	5,446,548	5,469,883	0	0	5,124,382	5,065,800	1,520,952	1,545,662					10,674,262	10,612,514	<b>22766144</b>	<b>22693859</b>	-72285
Madhya Pradesh	16,194,135	16,408,516	0	0	14,826,930	14,479,494	5,103,966	5,136,269					44,011,162	43,289,681	<b>80136193</b>	<b>79313960</b>	-822233
Maharashtra	22,167,747	22,377,901	0	0	21,454,681	21,203,996	5,755,259	5,777,662					42,505,258	41,977,346	<b>91882945</b>	<b>91336905</b>	-546040
Mumbai	10,037,605	10,067,105	0	0	10,719,976	10,710,796					222,576	220,214	12,807,250	12,911,173	<b>33787407</b>	<b>33909288</b>	121881
North East	6,220,020	6,267,645	0	0	686,784	678,360	1,288,485	1,292,344					4,216,092	4,161,863	<b>12411381</b>	<b>12400212</b>	-11169
Odisha	11,713,511	11,745,462	0	0	1,405,342	1,389,017	5,514,987	5,548,276					15,446,786	15,431,011	<b>34080626</b>	<b>34113766</b>	33140
Punjab	12,343,209	12,413,856	0	0	6,266,553	6,205,616	4,149,718	4,192,814					11,452,678	11,285,463	<b>34212158</b>	<b>34097749</b>	-114409
Rajasthan	23,013,606	23,092,425	0	0	9,785,029	9,586,222	5,607,144	5,602,409					26,359,937	26,244,976	<b>64765716</b>	<b>64526032</b>	-239684
Tamil Nadu	29,721,923	29,862,485	0	0	15,145,802	15,084,404	7,823,388	7,797,945	204,747	206,894			24,888,813	24,611,519	<b>77784673</b>	<b>77563247</b>	-221426
U.P.(E)	36,304,870	36,229,144	0	0	16,517,501	16,318,731	8,297,577	8,373,386					40,173,383	39,975,868	<b>101293331</b>	<b>100897129</b>	-396202
U.P.(W)	18,783,592	18,802,873	0	0	14,998,895	14,819,932	5,286,252	5,343,136					23,803,581	23,541,401	<b>62872320</b>	<b>62507342</b>	-364978
West Bengal	18,025,740	18,189,381	0	0	12,465,704	12,298,014	2,681,800	2,721,928					23,895,866	23,768,148	<b>57069110</b>	<b>56977471</b>	-91639
<b>Total</b>	<b>383482483</b>	<b>385410746</b>	<b>0</b>	<b>0</b>	<b>212454523</b>	<b>210477361</b>	<b>91895058</b>	<b>92396282</b>	<b>204747</b>	<b>206894</b>	<b>1906911</b>	<b>1904638</b>	<b>463780093</b>	<b>460019230</b>	<b>1153723815</b>	<b>1150415151</b>	<b>-3308664</b>
<b>Net Addition</b>		<b>1928263</b>		<b>0</b>		<b>-1977162</b>		<b>501224</b>		<b>2147</b>		<b>-2273</b>		<b>-3760863</b>	<b>0</b>	<b>-3308664</b>	
<b>Rural Subscribers</b>	186,783,045	188,992,003	0	0	103242308	101687786	29,869,698	30,054,775	0	0	35203	35,204	205672937	204088838	<b>525603191</b>	<b>524858606</b>	<b>-744585</b>

Proportion of VLR on the date of Peak VLR in the month of Oct-24 (%)							Annexure-III
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	99.23	72.39	89.65		-	92.84	93.39
Assam	98.88	27.28	91.16		-	97.80	89.84
Bihar	91.11	39.03	81.79		-	95.61	88.96
Delhi	96.23		55.69	20.44	-	96.99	82.19
Gujarat	109.01	59.70	90.96		-	97.74	95.83
Haryana	101.47	35.14	91.26		-	102.44	88.69
Himachal Pradesh	98.13	55.67	102.77		-	103.28	92.25
J & K	90.74	63.39	83.92		-	92.58	89.27
Karnataka	98.67	69.80	76.99		-	97.94	94.38
Kerala	99.01	102.11	93.65		-	96.71	97.36
Kolkata	99.54	87.78	88.32		-	102.89	97.80
Madhya Pradesh	99.42	47.14	82.44		-	96.14	91.14
Maharashtra	105.67	80.84	90.48		-	105.42	100.46
Mumbai	90.25		72.09	75.80	-	89.35	84.08
North East	103.97	53.65	94.54		-	106.90	99.19
Odisha	104.04	48.81	90.21		-	100.33	92.81
Punjab	105.38	56.52	91.48		-	101.53	95.57
Rajasthan	102.06	46.67	88.31		-	98.47	93.75
Tamil Nadu	98.86	77.31	91.43		-	86.61	91.30
U.P. (E)	99.49	40.14	86.65		-	96.56	91.33
U.P. (W)	106.51	42.58	87.19		-	96.85	92.83
West Bengal	99.42	73.34	86.69		-	102.08	96.53
<b>Total</b>	<b>99.48</b>	<b>60.17</b>	<b>84.95</b>	<b>26.84</b>	-	<b>97.46</b>	<b>92.73</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.