



सत्यमेव जयते

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 24<sup>th</sup> August, 2023

(www.trai.gov.in)

**Highlights of Telecom Subscription Data as on 30<sup>th</sup> June, 2023**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Broadband Subscribers</b> (Million)	<b>826.37</b>	<b>35.10</b>	<b>861.47</b>
<b>Urban Telephone Subscribers</b> (Million)	<b>626.07</b>	<b>27.63</b>	<b>653.70</b>
Net Addition in June, 2023 (Million)	-0.19	0.46	0.27
Monthly Growth Rate	-0.03%	1.68%	0.04%
<b>Rural Telephone Subscribers</b> (Million)	<b>517.51</b>	<b>2.68</b>	<b>520.19</b>
Net Addition in June, 2023 (Million)	0.56	0.49	1.05
Monthly Growth Rate	0.11%	22.53%	0.20%
<b>Total Telephone Subscribers</b> (Million)	<b>1143.58</b>	<b>30.31</b>	<b>1173.89</b>
Net Addition in June, 2023 (Million)	0.37	0.95	1.32
Monthly Growth Rate	0.03%	3.23%	0.11%
<b>Overall Tele-density*(%)</b>	<b>82.25%</b>	<b>2.18%</b>	<b>84.43%</b>
Urban Tele-density*(%)	127.56%	5.63%	133.19%
Rural Tele-density*(%)	57.53%	0.30%	57.83%
Share of Urban Subscribers	54.75%	91.16%	55.69%
Share of Rural Subscribers	45.25%	8.84%	44.31%

- ❖ In the month of June, 2023, 10.87 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 842.12 million at the end of May-23 to 852.99 million at the end of June-23, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in June, 2023 was 1042.86 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 1,040 operators in June, 2023 in comparison to 1,015 Operator in May 2023, the total Broadband Subscribers increased from 856.81

million at the end of May-23 to 861.47 million at the end of June-23 with a monthly growth rate of 0.54%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

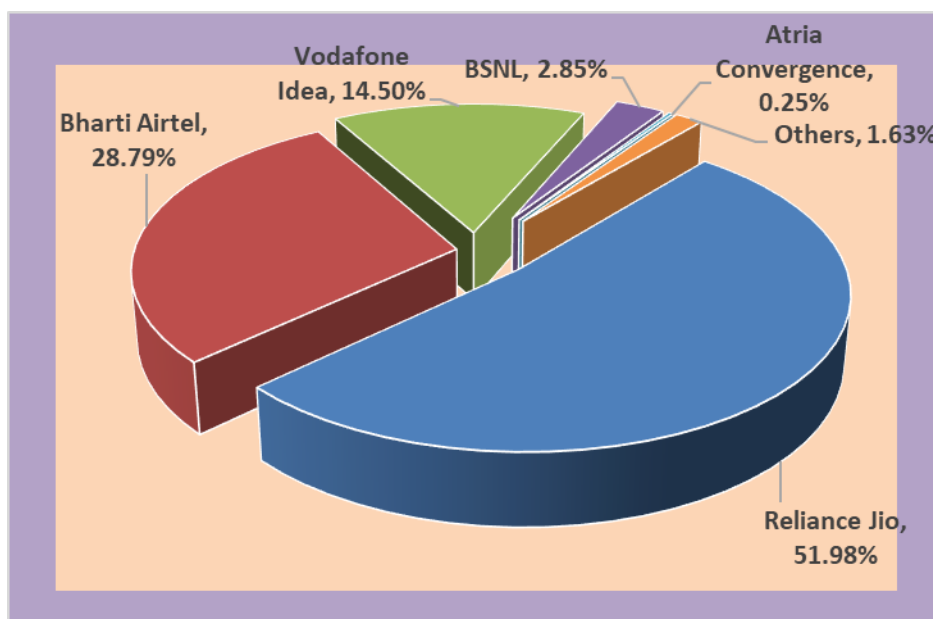
### Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of June, 2023

Segment	Broadband subscribers (in million)		Monthly growth rate in the month of June, 2023
	As on 31st May, 2023	As on 30th June, 2023	
Wired subscribers	34.47	35.10	1.84%
Mobile devices users (Phones and dongles)	821.41	825.41	0.49%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.94	0.95	1.78%
<b>Total</b>	<b>856.81</b>	<b>861.47</b>	<b>0.54%</b>

- Top five service providers constituted 98.37% market share of the total broadband subscribers at the end of June-23. These service providers were Reliance Jio Infocomm Ltd 447.75 million, Bharti Airtel 248.06 million, Vodafone Idea 124.90 million, BSNL 24.59 million and Atria Convergence 2.16 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> June, 2023**

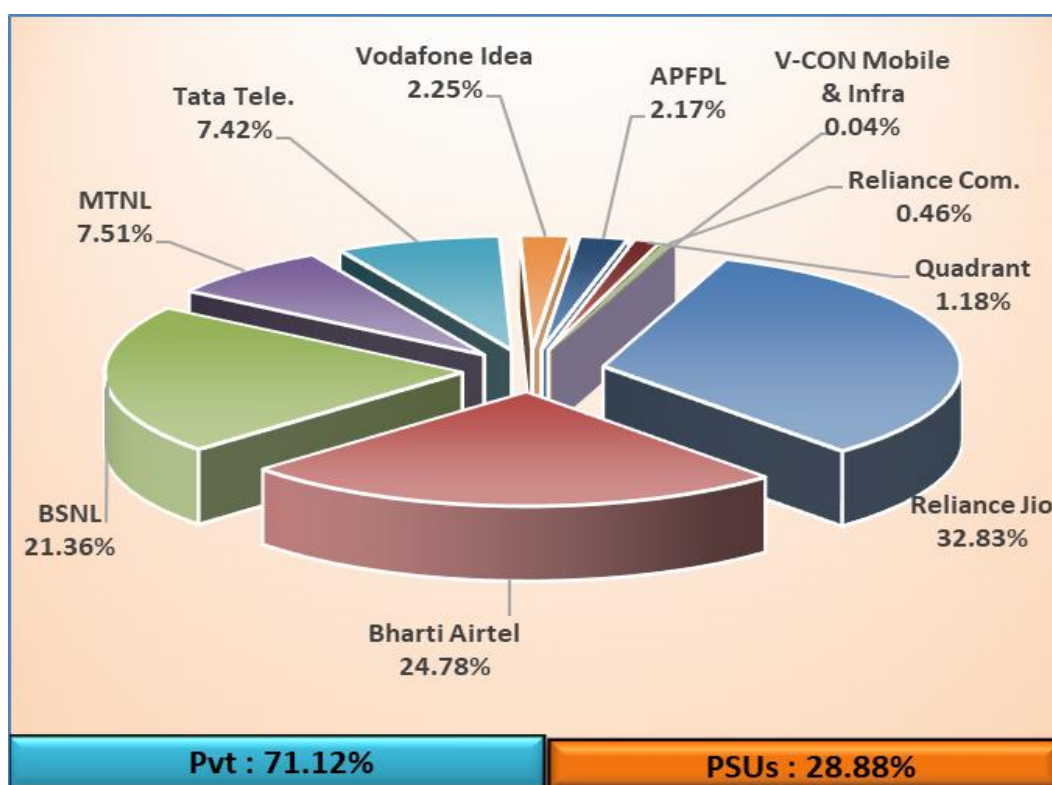


- As on 30<sup>th</sup> June, 2023, the top five Wired Broadband Service providers were Reliance Jio Infocomm Ltd 9.17 million, Bharti Airtel 6.54 million, BSNL 3.66 million, Atria Convergence Technologies 2.16 million and Hathway Cable & Datacom 1.12 million.
- As on 30<sup>th</sup> June, 2023, the top five Wireless Broadband Service providers were Reliance Jio Infocom Ltd 438.58 million, Bharti Airtel 241.52 million, Vodafone Idea 124.89 million, BSNL 20.93 million and Intech Online Pvt. Ltd. 0.24 million.

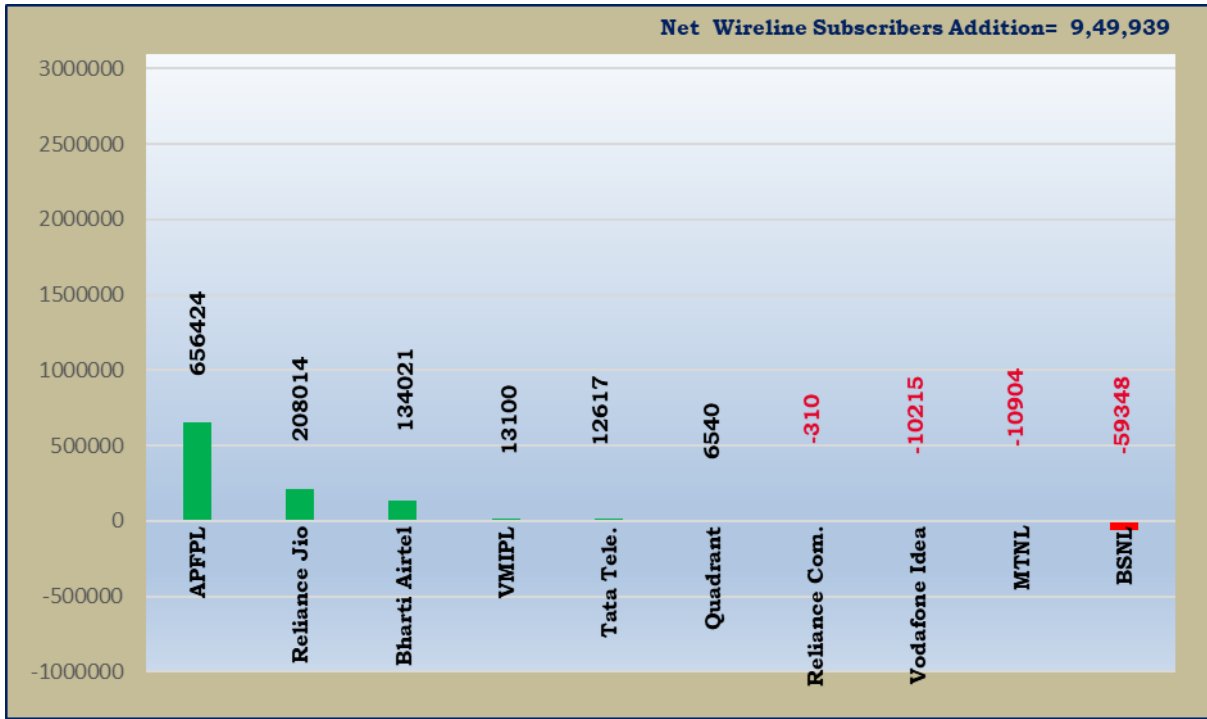
## II. Wireline Subscribers

- Wireline subscribers increased from 29.36 million at the end of May-23 to 30.31 million at the end of Jun-23. Net increase in the wireline subscriber base was 0.95 million with a monthly growth rate of 3.23%. The share of urban and rural subscribers in total wireline subscribers were 91.16% and 8.84% respectively at the end of Jun, 2023.
- The Overall Wireline Tele-density in India increased from 2.11% at the end of May-23 to 2.18% at the end of Jun-23. Urban and Rural Wireline Tele-density were 5.63% and 0.30% respectively during the same period.
- BSNL and MTNL, the two PSU access service providers, held 28.88% of the wireline market share as on 30<sup>th</sup> June, 2023. Detailed statistics of wireline subscriber base are available at **Annexure-I**.

### Access Service Provider-wise Market Share of Wireline Subscribers as on 30<sup>th</sup> June, 2023

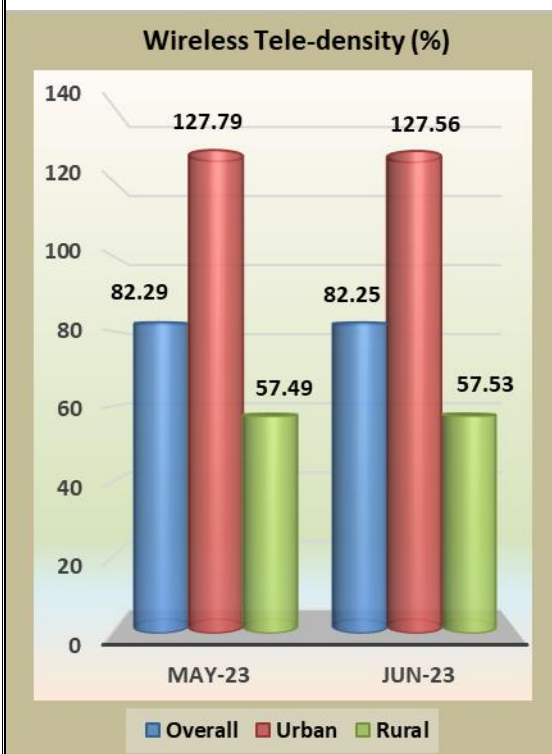


### Access Service Provider-wise Net Addition/Decline in Wireline Subscribers during the month of June, 2023



### III. Wireless subscriber

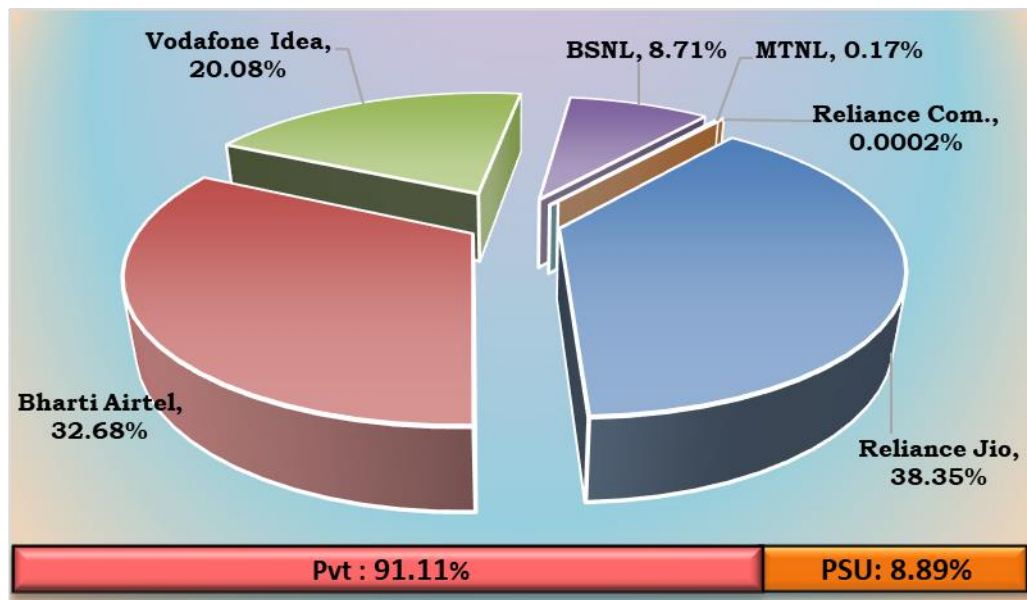
• Total wireless subscribers increased from 1,143.21 million at the end of May-23, to 1,143.58 million at the end of June-23, thereby registering a monthly growth rate of 0.03%. Wireless subscription in urban areas decreased from 626.26 million at the end of May-23 to 626.07 million at the end of June-23 however wireless subscription in rural areas increased from 516.95 million to 517.51 million during the same period. Monthly growth rate of urban and rural wireless subscription was -0.03% and 0.11% respectively.



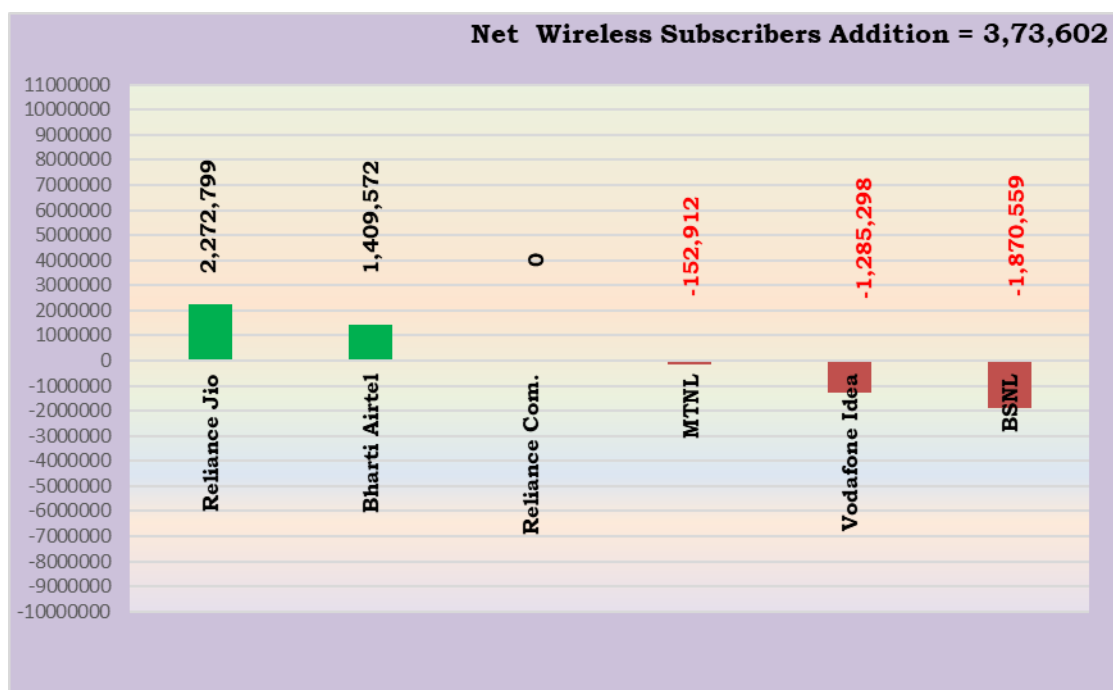
• The Wireless Tele-density in India decreased from 82.29% at the end of May-23 to 82.25% at the end of June-23. The Urban Wireless Tele-density decreased from 127.79% at the end of May-23 to 127.56% at the end of June-23 however Rural Tele-density increased from 57.49% to 57.53% during the same period. 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 June-23. Detailed statistics of wireless subscriber base is available at **Annexure-II**.

- As on 30<sup>th</sup> June, 2023, the private access service providers held 91.11% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 8.89%.
- 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> June, 2023**

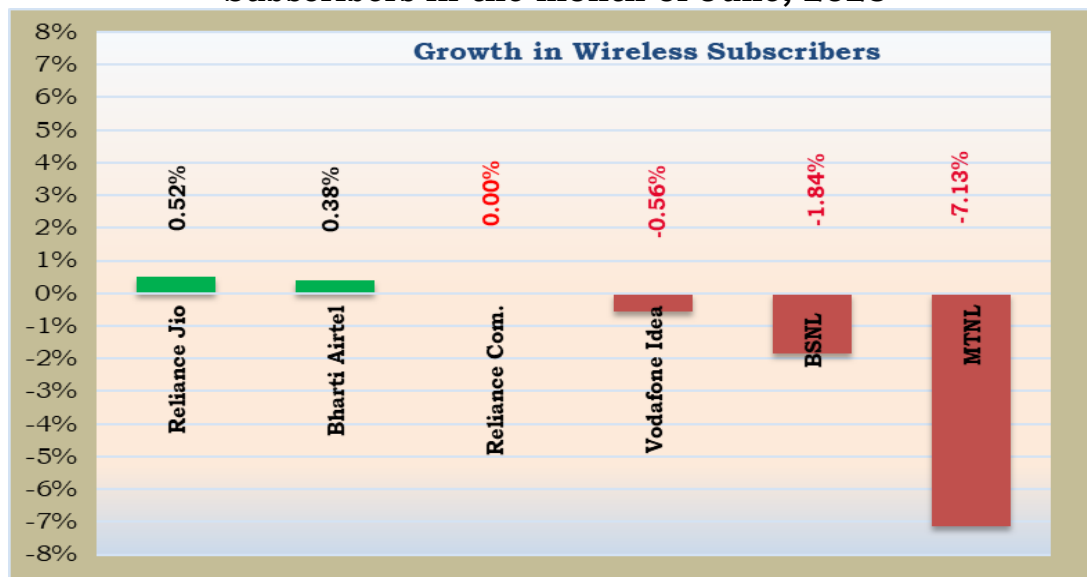


**Net Addition in Wireless Subscribers of Access Service Providers in the month of June, 2023**



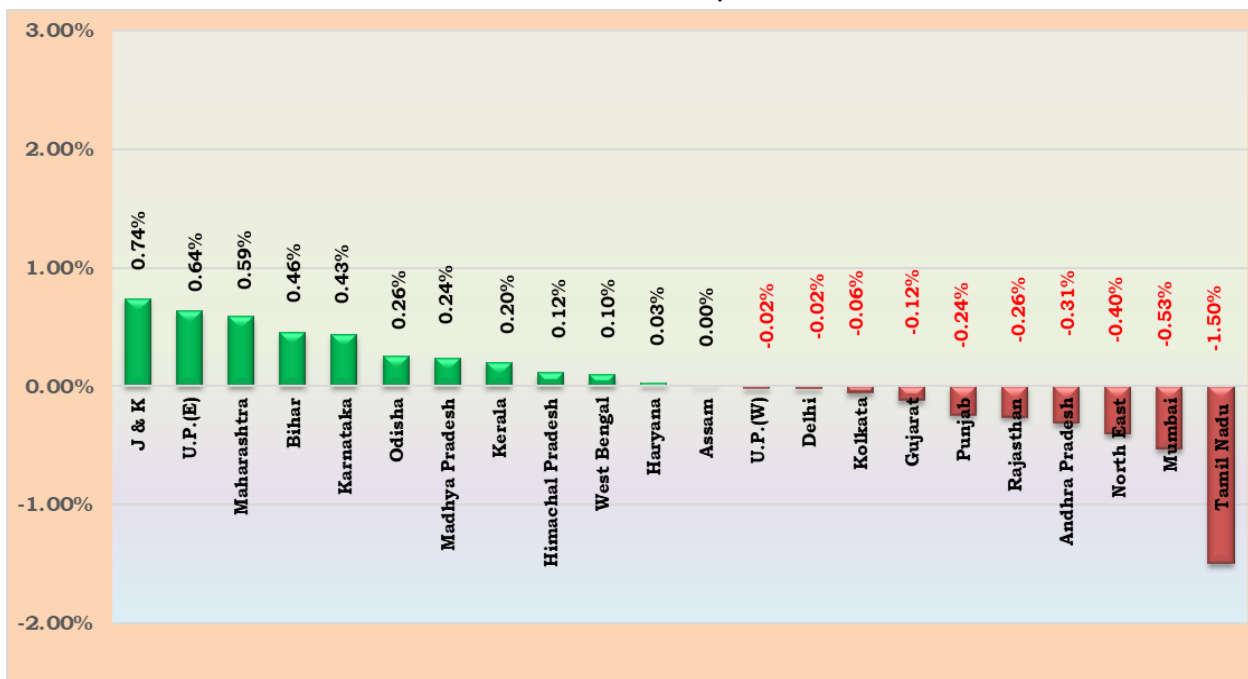
## Growth in Wireless Subscribers

### Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the month of June, 2023



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

### Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of June, 2023

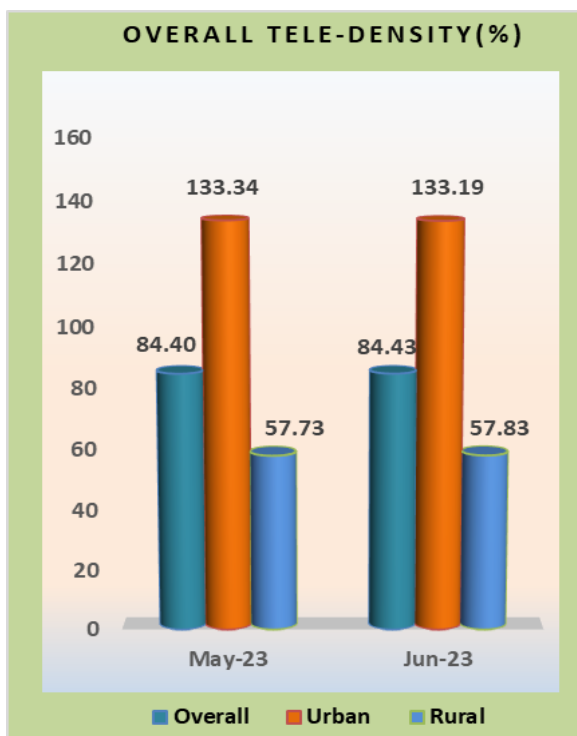
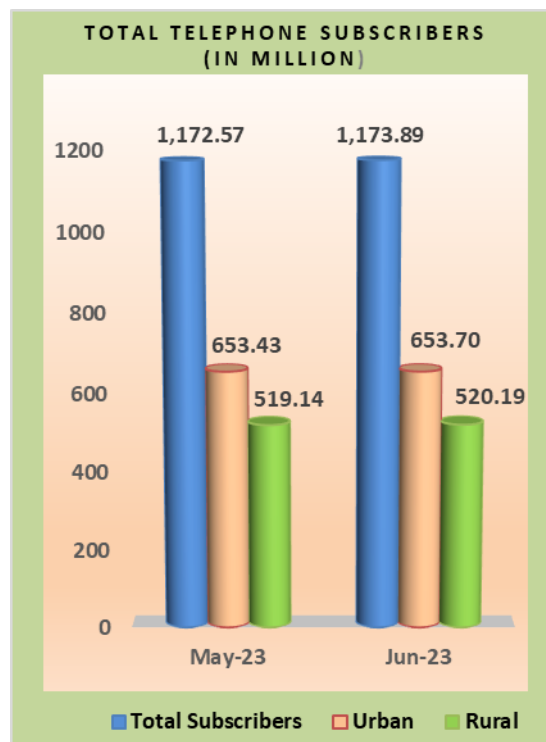


- Except U.P.(W), Delhi, Kolkata, Gujarat, Punjab, Rajasthan, Andhra Pradesh, North East, Mumbai and Tamil Nadu, all other service areas have showed growth in their wireless subscribers during the month of June-23.



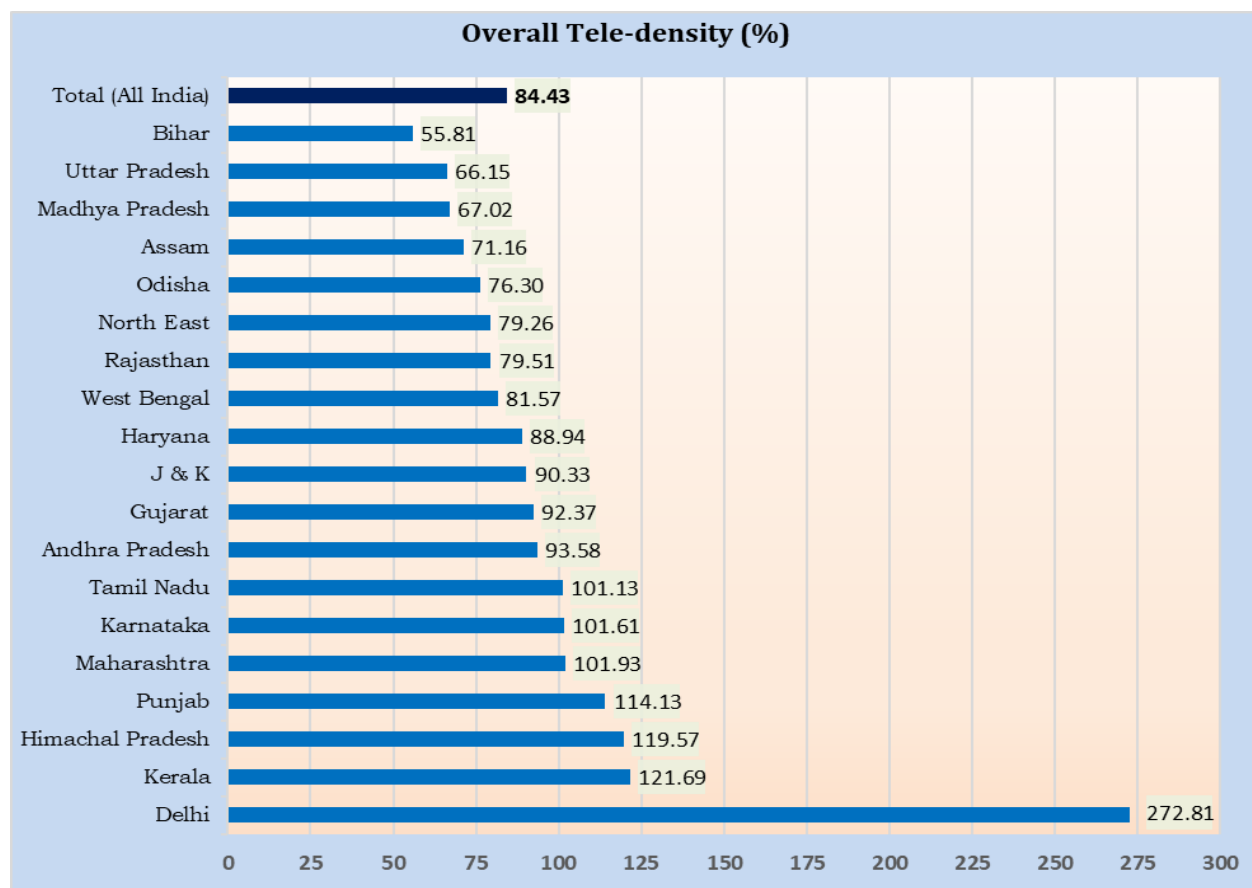
#### IV. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,172.57 million at the end of May-23 to 1,173.89 million at the end of June-23, thereby showing a monthly growth rate of 0.11%. Urban telephone subscription increased from 653.43 million at the end of May-23 to 653.70 million at the end of June-23 and the rural subscription also increased from 519.14 million to 520.19 million during the same period. The monthly growth rates of urban and rural telephone subscription were 0.04% and 0.20% respectively during the month of June-23.



- The overall Tele-density in India increased 84.40% at the end of May-23 to 84.43% at the end of June-23. The Urban Tele-density decreased from 133.34% at the end of May-23 to 133.19% at the end of June-23 however Rural Tele-density increased from 57.73% to 57.83% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of June-23 was 55.69% and 44.31% respectively.

## Overall Tele-density (LSA Wise) – As on 30<sup>th</sup> June, 2023



- 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 June-23. Delhi service area has maximum tele-density of 272.81% and the Bihar service area has minimum tele-density of 55.81% at the end of June-23.

### 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 Chhathishgarh, 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 June, 2023

Circle Category	Net additions in the month of June, 2023		Telephone Subscriber base as on 30 <sup>th</sup> June, 2023	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	7,87,518	-6,82,161	1,19,19,323	38,30,97,272
Circle B	96,061	7,05,263	75,86,202	46,39,59,184
Circle C	21,220	5,57,699	21,96,045	18,43,76,534
Metro	45,140	-2,07,199	86,12,956	11,21,45,525
<b>All India</b>	<b>9,49,939</b>	<b>3,73,602</b>	<b>3,03,14,526</b>	<b>1,14,35,78,515</b>

### Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of June, 2023

Circle Category	Monthly growth rate (%) (May-23 to June-23)		Yearly growth rate (%) (June-22 to June-23)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	7.07%	-0.18%	21.97%	-1.03%
Circle B	1.28%	0.15%	22.69%	-1.27%
Circle C	0.98%	0.30%	32.59%	2.79%
Metro	0.53%	-0.18%	8.29%	1.04%
<b>All India</b>	<b>3.23%</b>	<b>0.03%</b>	<b>18.58%</b>	<b>-0.33%</b>

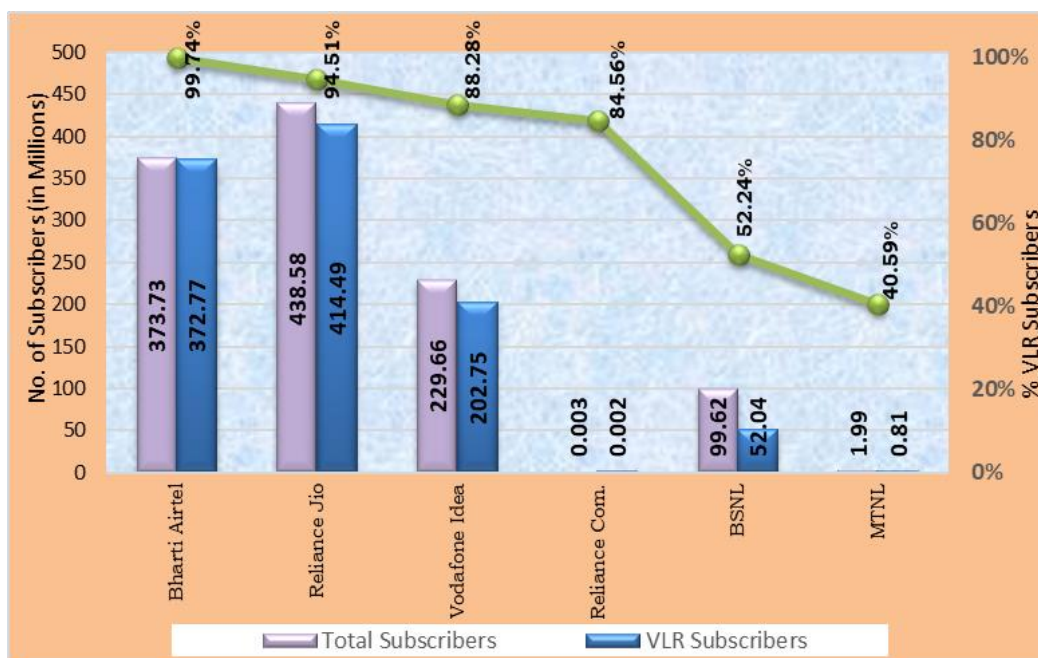
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

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

## VI. Active Wireless Subscribers (VLR Data)

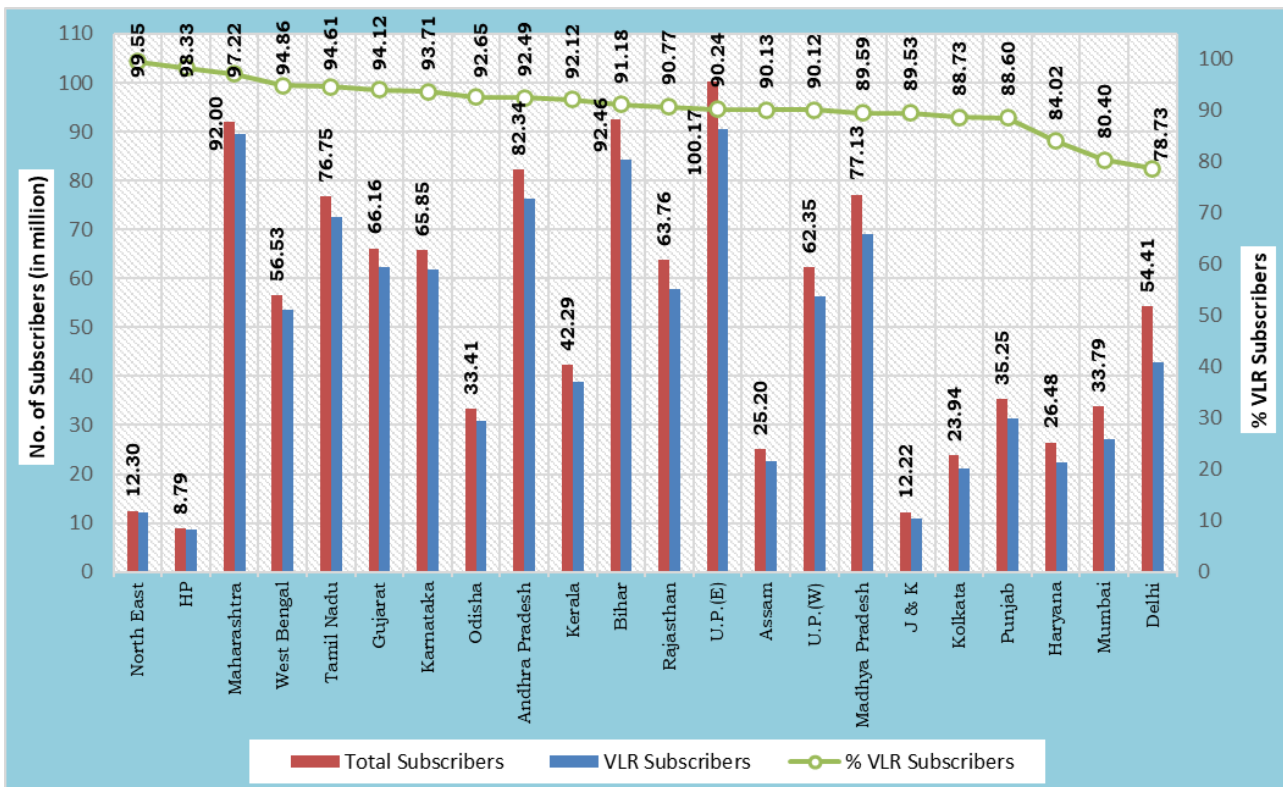
- Out of the total 1,143.58 million wireless subscribers, 1042.86 million wireless subscribers were active on the date of peak VLR in the month of June-23. The proportion of active wireless subscribers was approximately 91.19% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of June-23 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 June, 2023**



- Bharti Airtel has the maximum proportion 99.74% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of June-23 and MTNL has the minimum proportion of VLR 40.59% of its HLR during the same period.

### Service Area wise percentage of VLR Subscribers in the month of June, 2023



### 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 June-23, a total of 10.87 million requests were received for MNP. Out of total 10.87 million new requests, 8.06 million requests received from Zone-I and 2.81 million requests received from Zone-II. The cumulative MNP requests increased from 842.12 million at the end of May-23 to 852.99 million at the end of June-23, 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 75.27 million) followed by Maharashtra (about 70.27 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 64.99 million) followed by Karnataka (about 61.57 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>May-23</b>	<b>June-23</b>		<b>May-23</b>	<b>June-23</b>
Delhi	40.34	40.99	Andhra Pradesh	59.36	59.87
Gujarat	56.81	58.05	Assam	5.98	6.04
Haryana	26.78	27.38	Bihar	44.72	45.52
Himachal Pradesh	4.29	3.73	Karnataka	60.98	61.57
Jammu & Kashmir	2.36	2.01	Kerala	21.33	21.41
Maharashtra	68.62	70.27	Kolkata	16.54	16.35
Mumbai	31.16	30.74	Madhya Pradesh	64.36	64.99
Punjab	29.28	29.57	North East	2.63	2.00
Rajasthan	58.34	59.70	Odisha	15.44	15.48
U.P.(East)	73.21	75.27	Tamil Nadu	56.55	56.81
U.P.(West)	56.93	58.46	West Bengal	46.11	46.77
<b>Total</b>	<b>448.12</b>	<b>456.18</b>	<b>Total</b>	<b>394.00</b>	<b>396.81</b>
<b>Total (Zone-1 + Zone-2)</b>				<b>842.12</b>	<b>852.99</b>
<b>Net Addition (June, 2023)</b>			<b>10.87 million</b>		

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

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**(V. Raghunandan)**  
**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.		APFPL		Total		Net Addition
	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	
Andhra Pradesh	630954	615614			487407	499185	19318	19312	231165	232553			67055	63005	1138515	1162586				656424	2574414	3248679	674265
Assam	110,011	104,603			22426	23428	0	0	0	0			2640	2610	162390	165170					297467	295811	-1656
Bihar	167,765	165,824			82293	85310	9	9	10172	10186			2380	2380	466587	474712					729206	738421	9215
Delhi			1015775	1015628	1971608	1987573	20431	20504	211043	210145			82575	81325	893733	900015					4195165	4215190	20025
Gujarat	322122	317980			216254	225566	2726	2725	150624	157715			58356	56946	576652	591915					1326734	1352847	26113
Haryana	207604	207686			118665	122217	0	0	45707	45490			420	420	114457	117120					486853	492933	6080
Himachal Pradesh	89314	89628			5238	5631	0	0	1579	1586			90	90	53333	54155					149554	151090	1536
J & K	82568	83621			85169	90911	0	0	0	0			30	30	192458	194433					360225	368995	8770
Karnataka	542172	539849			1087930	1111447	18591	18556	394029	394316			151893	149318	831931	862439					3026546	3075925	49379
Kerala	1011420	1001964			92745	93941	3568	3447	19998	19942			7110	7130	254651	262324					1389492	1388748	-744
Kolkata	194454	193048			192285	194637	4634	4664	62767	63061			14555	14575	454793	464761					923488	934746	11258
Madhya Pradesh	266206	260750			453893	463302	5	5	44113	47732			34575	34575	616849	628688					1415641	1435052	19411
Maharashtra	586830	581214			399195	408987	9012	8915	233285	232175			22662	22662	246581	249222					1497565	1503175	5610
Mumbai			1272221	1261464	558055	564244	39953	39876	612558	615095			171552	169822	794824	812519					3449163	3463020	13857
North East	73602	73005					0	0	0	0			510	510	149583	151119					223695	224634	939
Odisha	171185	169306					4	4	10554	10814			3930	3930	229005	233040					414678	417094	2416
Punjab	366490	368887			236736	240097	1925	1925	16938	16270	351421	357961	1980	1980	294364	301849	99	13199			1269953	1302168	32215
Rajasthan	276514	276340			204976	211128	3537	3522	24742	24842			15135	15075	359560	361562					884464	892469	8005
Tamil Nadu	953700	949252			831235	843269	17154	17093	145939	145907			33498	34348	725020	748828					2706546	2738697	32151
U.P.(E)	126744	121436			181105	185372	27	26	11437	11482			16480	16480	458827	468467					794620	803263	8643
U.P.(W)	178334	177423			119042	121532	8	8	6985	6942			3496	3496	503949	516175					811814	825576	13762
West Bengal	177634	178845			30955	33456	69	70	2736	2735			120	120	225790	230767					437304	445993	8689
<b>Total</b>	<b>6535623</b>	<b>6476275</b>	<b>2287996</b>	<b>2277092</b>	<b>7377212</b>	<b>7511233</b>	<b>140971</b>	<b>140661</b>	<b>2236371</b>	<b>2248988</b>	<b>351421</b>	<b>357961</b>	<b>691042</b>	<b>680827</b>	<b>9743852</b>	<b>9951866</b>	<b>99</b>	<b>13199</b>	<b>0</b>	<b>656424</b>	<b>29364587</b>	<b>30314526</b>	<b>949939</b>
<b>Net Addition</b>		<b>-59348</b>		<b>-10904</b>		<b>134021</b>		<b>-310</b>		<b>12617</b>		<b>6540</b>		<b>-10215</b>		<b>208014</b>		<b>13100</b>	<b>656424</b>		<b>949939</b>		
<b>Rural Subscribers</b>	1977780	1979345	34	34	0	0	362	362	10208	10091	19106	18736	0	0	180171	184207	0		487723	2187661	2680498	492837	



**Wireless Subscriber Base**

**Annexure-II**

Circle	Bharti Airtel (including Tata)		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	May-23	Jun-23	
Andhra Pradesh	32578763	32770911			11447975	11363635	7934099	7557631					30638869	30650087	<b>82599706</b>	<b>82342264</b>	-257442
Assam	11,140,124	11,150,514			1937529	1912053	3191181	3193282					8928523	8941644	<b>25197357</b>	<b>25197493</b>	136
Bihar	40,422,573	40,594,914			8133798	8058206	5833901	5862287					37644388	37941349	<b>92034660</b>	<b>92456756</b>	422096
Delhi	17156018	17231813	23	23	16509158	16347957					1689274	1688927	19069518	19142853	<b>54423991</b>	<b>54411573</b>	-12418
Gujarat	11373055	11410888	47	47	21932937	21823572	5028454	5048755					27901111	27872065	<b>66235604</b>	<b>66155327</b>	-80277
Haryana	6551136	6563357	11	11	7254897	7235095	4438346	4465526					8230575	8219158	<b>26474965</b>	<b>26483147</b>	8182
Himachal Pradesh	3423864	3439537	92	92	442699	433472	1603132	1610092					3313440	3310136	<b>8783227</b>	<b>8793329</b>	10102
J & K	5866248	5917428	0	0	335707	322864	828900	831303					5099753	5148627	<b>12130608</b>	<b>12220222</b>	89614
Karnataka	31365250	31577632	589	589	6777831	6676091	5437302	5414427					21984476	22181050	<b>65565448</b>	<b>65849789</b>	284341
Kerala	8045718	8092740	113	113	14245870	14203668	9719202	9729281					10193682	10264886	<b>42204585</b>	<b>42290688</b>	86103
Kolkata	5648094	5651788	0	0	5686855	5638643	2185623	2188790					10433799	10461233	<b>23954371</b>	<b>23940454</b>	-13917
Madhya Pradesh	15375233	15482919	0	0	16943923	16809837	5214330	5172636					39409857	39662102	<b>76943343</b>	<b>77127494</b>	184151
Maharashtra	21162263	21213764	0	0	23830542	23683451	6169234	6205219					40302352	40901415	<b>91464391</b>	<b>92003849</b>	539458
Mumbai	10020846	9931749	925	925	11163757	11132998					455630	303065	12333204	12424761	<b>33974362</b>	<b>33793498</b>	-180864
North East	5964169	5991059	0	0	917433	921680	1,356,886	1,281,663					4108805	4103288	<b>12347293</b>	<b>12297690</b>	-49603
Odisha	11330083	11385490	29	29	1580880	1597870	6,212,785	6,210,662					14201913	14216993	<b>33325690</b>	<b>33411044</b>	85354
Punjab	12270513	12267328	106	106	6957971	6900358	4,586,885	4,577,542					11524524	11508531	<b>35339999</b>	<b>35253865</b>	-86134
Rajasthan	22743075	22717238	155	155	9990444	9857476	5,928,371	5,843,850					25262849	25338835	<b>63924894</b>	<b>63757554</b>	-167340
Tamil Nadu	27901544	28043824	262	262	16340816	16299143	9,190,220	7,739,963	127,804	143,634			24353638	24519217	<b>77914284</b>	<b>76746043</b>	-1168241
U.P.(E)	36629543	36841650	0	0	18298890	18336134	8,695,592	8,735,044					35908799	36253665	<b>99532824</b>	<b>100166493</b>	633669
U.P.(W)	18327556	18316748	8	8	16182069	16118017	5,311,274	5,309,788					22545744	22610183	<b>62366651</b>	<b>62354744</b>	-11907
West Bengal	17020114	17132063	147	147	14029454	13983917	2,497,494	2,499,081					22919451	22909991	<b>56466660</b>	<b>56525199</b>	58539
<b>Total</b>	<b>372315782</b>	<b>373725354</b>	<b>2507</b>	<b>2507</b>	<b>230941435</b>	<b>229656137</b>	<b>101363211</b>	<b>99476822</b>	<b>127804</b>	<b>143634</b>	<b>2144904</b>	<b>1991992</b>	<b>436309270</b>	<b>438582069</b>	<b>1143204913</b>	<b>1143578515</b>	<b>373602</b>
<b>Net Addition</b>		<b>1409572</b>		<b>0</b>		<b>-1285298</b>		<b>-1886389</b>	<b>31344019</b>	<b>15830</b>		<b>-152912</b>		<b>2272799</b>	31344019	<b>373602</b>	
<b>Rural Subscribers</b>	180,996,231	181,381,959	0	0	112470485	112012693	31,791,810	31,344,019	0	0	35306	35299	191657999	192739079	<b>516951831</b>	<b>517513049</b>	<b>561218</b>



Proportion of VLR on the date of Peak VLR in the month of Jun-23 (%)							Annexure-III
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	99.73	60.97	93.57		-	92.13	<b>92.49</b>
Assam	98.61	41.66	94.06		-	96.02	<b>90.13</b>
Bihar	95.36	38.08	91.31		-	94.89	<b>91.18</b>
Delhi	93.56		59.99	17.54	100.00	86.78	<b>78.73</b>
Gujarat	108.96	43.31	92.37		112.77	98.61	<b>94.12</b>
Haryana	102.09	31.00	90.11		109.09	93.04	<b>84.02</b>
Himachal Pradesh	104.07	56.03	118.61		43.48	110.28	<b>98.33</b>
J & K	91.97	68.58	88.68		-	90.17	<b>89.53</b>
Karnataka	101.42	52.20	87.74		93.72	94.66	<b>93.71</b>
Kerala	96.15	83.34	93.97		126.55	94.68	<b>92.12</b>
Kolkata	96.58	41.62	89.34		-	94.02	<b>88.73</b>
Madhya Pradesh	102.53	46.99	86.17		-	91.55	<b>89.59</b>
Maharashtra	109.44	62.52	91.63		-	99.39	<b>97.22</b>
Mumbai	86.74		68.94	169.05	85.51	83.43	<b>80.40</b>
North East	102.90	55.86	94.57		-	109.42	<b>99.55</b>
Odisha	104.33	49.36	94.04		41.38	102.05	<b>92.65</b>
Punjab	101.61	39.40	92.80		65.09	91.79	<b>88.60</b>
Rajasthan	99.26	41.41	91.19		60.00	94.37	<b>90.77</b>
Tamil Nadu	100.91	78.62	93.84		95.42	93.07	<b>94.61</b>
U.P. (E)	97.29	32.75	92.57		-	95.74	<b>90.24</b>
U.P. (W)	102.22	36.97	92.03		100.00	91.45	<b>90.12</b>
West Bengal	100.44	65.66	90.83		50.34	96.33	<b>94.86</b>
<b>Total</b>	<b>99.74</b>	<b>52.24</b>	<b>88.28</b>	<b>40.59</b>	<b>84.56</b>	<b>94.51</b>	<b>91.19</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.