

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 12<sup>th</sup> May, 2022

(www.trai.gov.in)

**Highlights of Telecom Subscription Data as on 31st March, 2022**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Total Telephone Subscribers</b> (Million)	<b>1142.09</b>	<b>24.84</b>	<b>1166.93</b>
Net Addition in March, 2022 (Million)	0.57	0.32	0.89
Monthly Growth Rate	0.05%	1.31%	0.08%
<b>Urban Telephone Subscribers</b> (Million)	<b>624.23</b>	<b>22.88</b>	<b>647.11</b>
Net Addition in March, 2022 (Million)	-0.95	0.31	-0.64
Monthly Growth Rate	-0.15%	1.37%	-0.10%
<b>Rural Telephone Subscribers</b> (Million)	<b>517.86</b>	<b>1.96</b>	<b>519.82</b>
Net Addition in March, 2022 (Million)	1.52	0.01	1.53
Monthly Growth Rate	0.29%	0.58%	0.30%
<b>Overall Tele-density*(%)</b>	<b>83.07%</b>	<b>1.81%</b>	<b>84.88%</b>
Urban Tele-density*(%)	130.17%	4.77%	134.94%
Rural Tele-density*(%)	57.85%	0.22%	58.07%
Share of Urban Subscribers	54.66%	92.12%	55.45%
Share of Rural Subscribers	45.34%	7.88%	44.55%
<b>Broadband Subscribers</b> (Million)	<b>761.05</b>	<b>27.25</b>	<b>788.30</b>

- ❖ In the month of March, 2022, 9.64 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 680.11 million at the end of February-22 to 689.76 million at the end of March-22, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in March, 2022 was 1021.29 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.

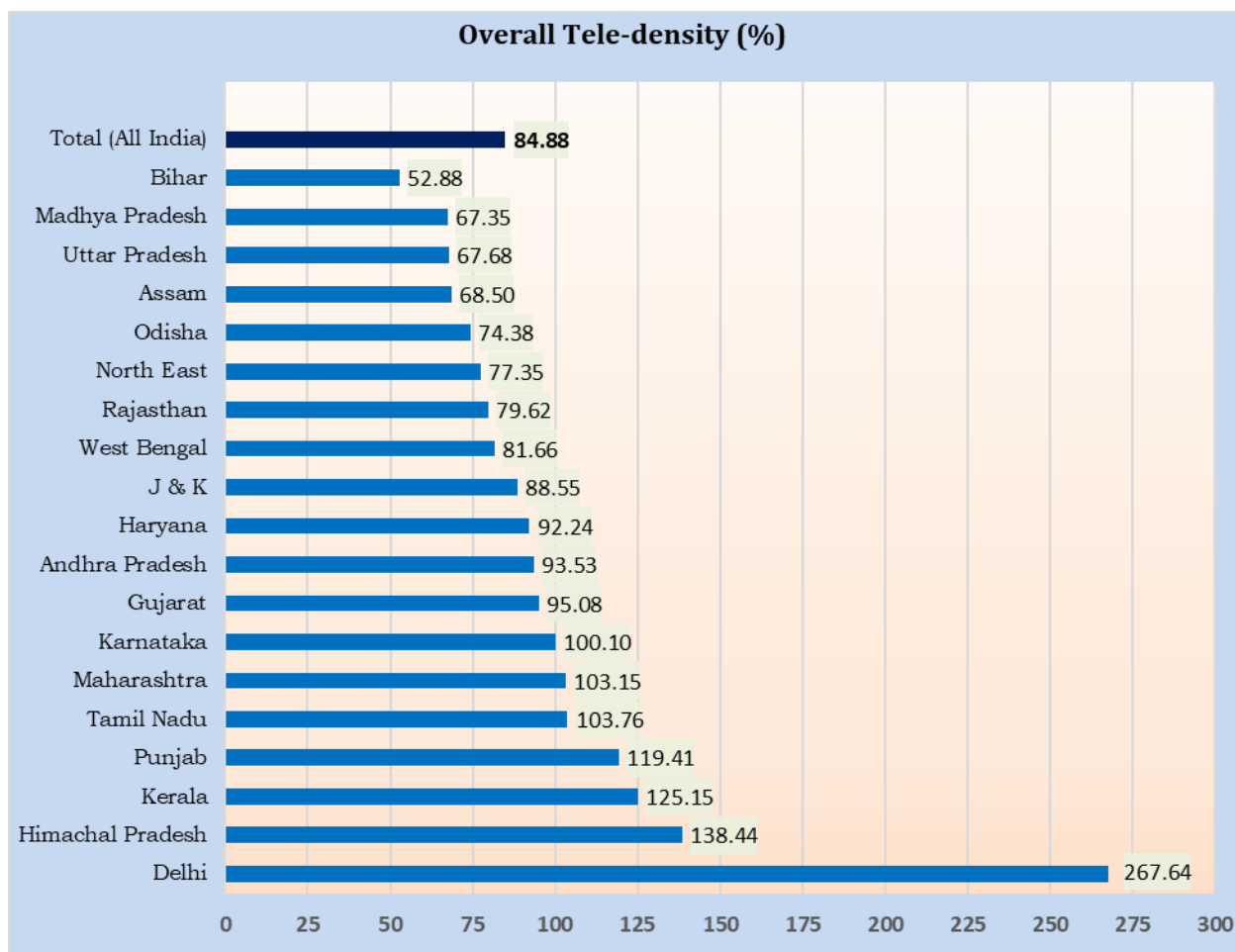
## I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,166.05 million at the end of February-22 to 1,166.93 million at the end of March-22, thereby showing a monthly growth rate of 0.08%. Urban telephone subscription decreased from 647.76 million at the end of February-22 to 647.11 million at the end of March-22 and the rural subscription also increased from 518.29 million to 519.82 million during the same period. The monthly growth rates of urban and rural telephone subscription were -0.10% and 0.30% respectively during the month of March-22.



- The overall Tele-density in India remained same i.e. 84.88% which was at the end of February-22. The Urban Tele-density decreased from 135.28% at the end of February-22 to 134.94% at the end of March-22 however Rural Tele-density increased from 57.91% to 58.07% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of March-22 was 55.45% and 44.55% respectively.

## Overall Tele-density (LSA Wise) – As on 31<sup>st</sup> March, 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 March-22. Delhi service area has maximum tele-density of 267.64% and the Bihar service area has minimum tele-density of 52.88% at the end of March-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 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.

## II. Category-wise Growth in subscriber base

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

Circle Category	Net additions in the month of March, 2022		Telephone Subscriber base as on 31 <sup>st</sup> March, 2022	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	1,41,332	-6,93,008	94,98,575	38,62,39,625
Circle B	67,123	5,02,022	58,62,578	46,86,11,753
Circle C	36,279	5,73,693	15,42,285	17,69,33,186
Metro	76,352	1,84,331	79,36,318	11,03,09,321
<b>All India</b>	<b>3,21,086</b>	<b>5,67,038</b>	<b>2,48,39,756</b>	<b>1,14,20,93,885</b>

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

Circle Category	Monthly growth rate (%) (February-22 to March-22)		Yearly growth rate (%) (March-21 to March-22)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.51%	-0.18%	23.90%	-4.50%
Circle B	1.16%	0.11%	30.16%	-1.64%
Circle C	2.41%	0.33%	63.40%	-2.36%
Metro	0.97%	0.17%	11.38%	-7.21%
<b>All India</b>	<b>1.31%</b>	<b>0.05%</b>	<b>22.73%</b>	<b>-3.29%</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' all circles have registered growth rate in their subscriber base. On yearly basis, all circles have registered decline rate in their subscriber base.
- In Wireline segment, both on monthly and yearly basis, Circles of all categories have registered growth rate in their subscriber base.

### III. Wireless subscriber

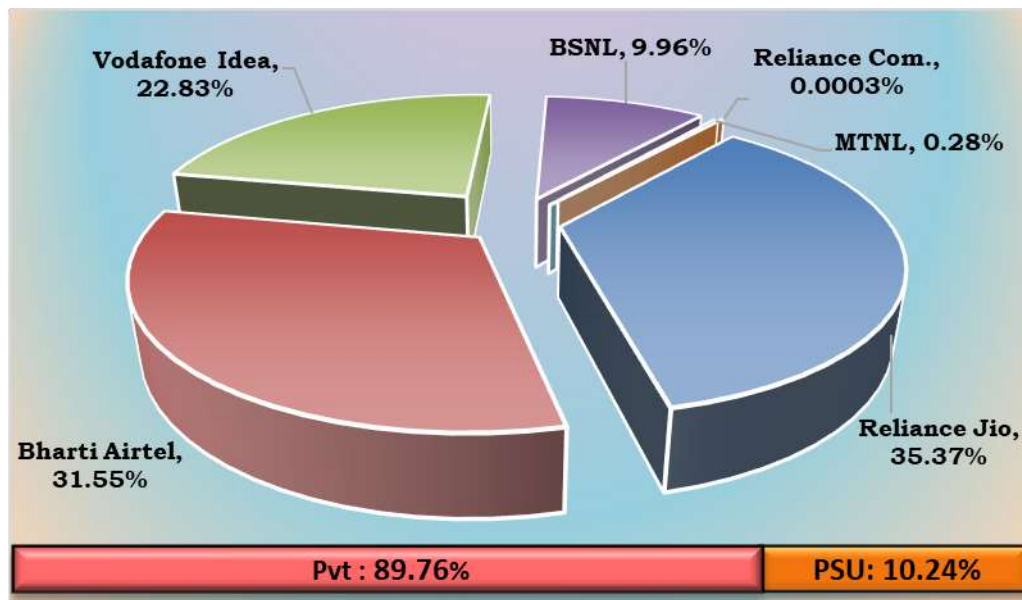
• Total wireless subscribers increased from 1,141.53 million at the end of February-22 to 1,142.09 million at the end of March-22, thereby registering a monthly growth rate of 0.05%. Wireless subscription in urban areas decreased from 625.19 million at the end of February-22 to 624.23 million at the end of March-22 however wireless subscription in rural areas increased from 516.34 million to 517.86 million during the same period. Monthly growth rates of urban and rural wireless subscription were -0.15% and 0.29% respectively.



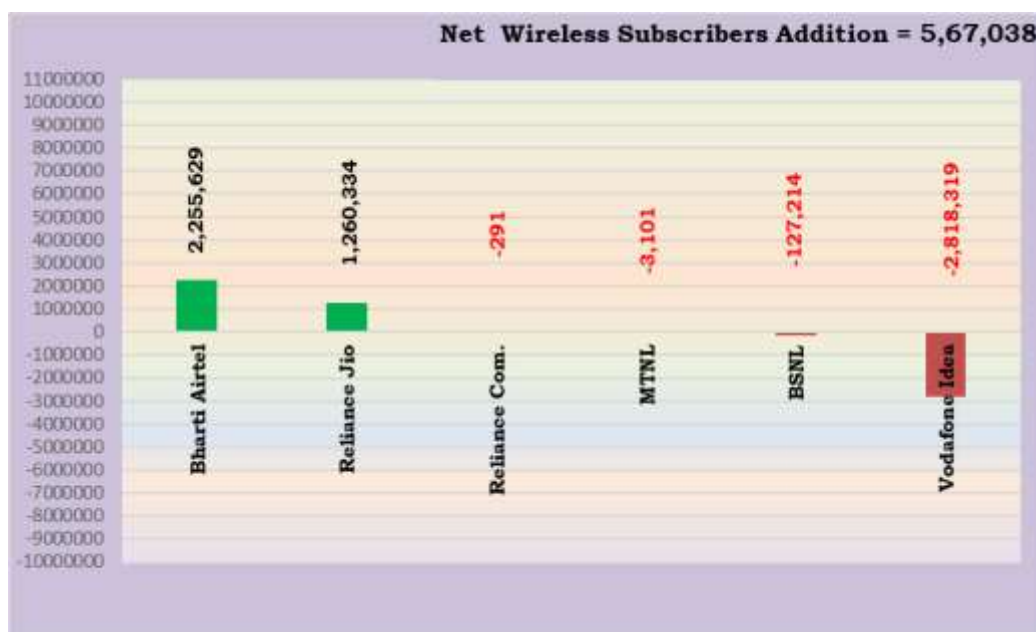
• The Wireless Tele-density in India decreased from 83.10% at the end of February-22 to 83.07% at the end of March-22. The Urban Wireless Tele-density decreased from 130.57% at the end of February-22 to 130.17% at the end of March-22 however Rural Tele-density increased from 57.70% to 57.85% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.66% and 45.34% respectively at the end of March-22. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 31<sup>st</sup> March, 2022, the private access service providers held 89.76% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 10.24%.
- 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> March, 2022**



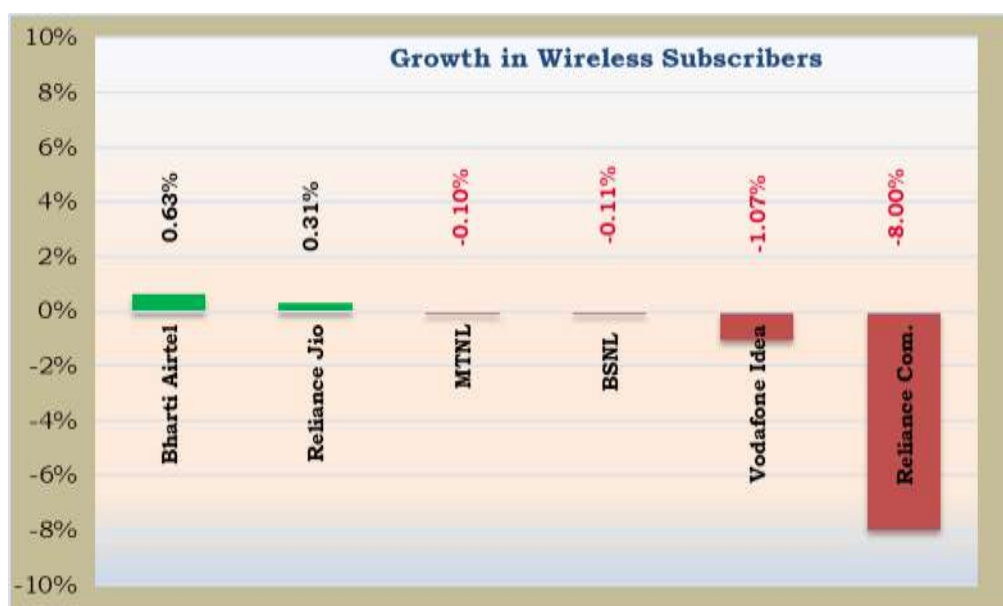
**Net Addition/decline in Wireless Subscribers of Access Service Providers in the month of March, 2022**



- Note:**
- M/s Bharti Airtel Ltd has reported the wireless subscribers including the subscribers of M/s Tata Teleservices Ltd.
  - Virtual Network Operator (VNO) of BSNL has started reporting of its subscribers from the month of October, 2018 and the same has been included in the subscriber base of BSNL.

#### IV. Growth in Wireless Subscribers

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



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

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

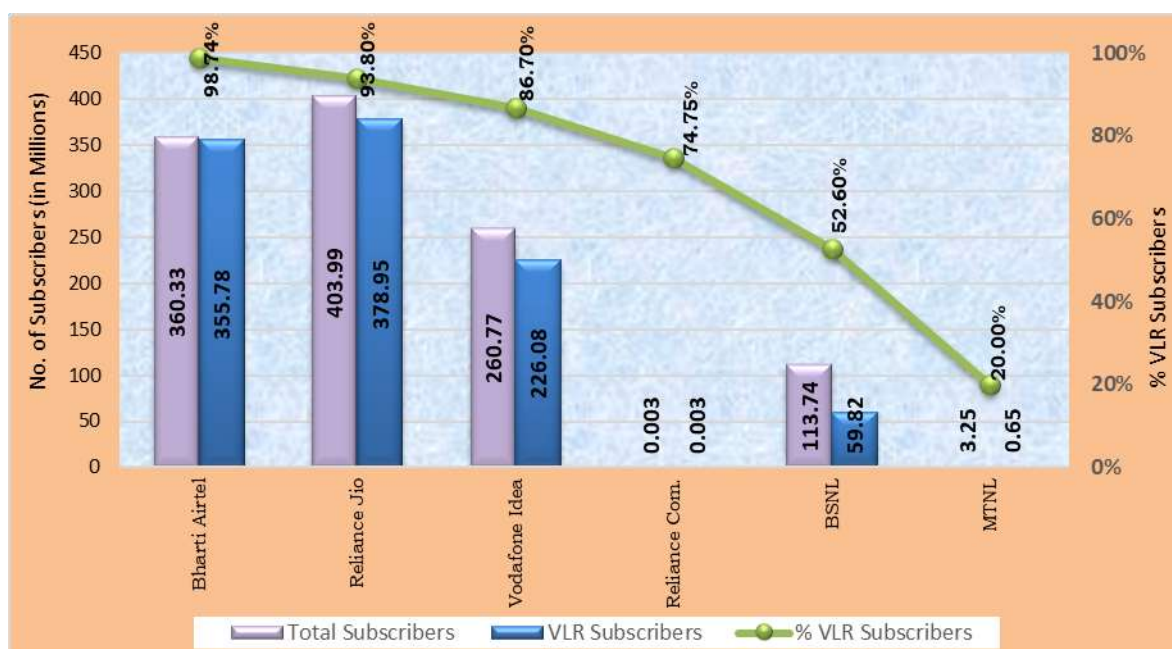


- Except Odisha, Kolkata, Andhra Pradesh, Haryana, Punjab, Karnataka, Himachal Pradesh, Kerala and Tamil Nadu service areas, all other service areas have showed growth rate in their wireless subscribers during the month of March-22.

## V. Active Wireless Subscribers (VLR Data)

- Out of the total 1,142.09 million wireless subscribers, 1021.29 million wireless subscribers were active on the date of peak VLR in the month of March-22. The proportion of active wireless subscribers was approximately 89.42% 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 March-22 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

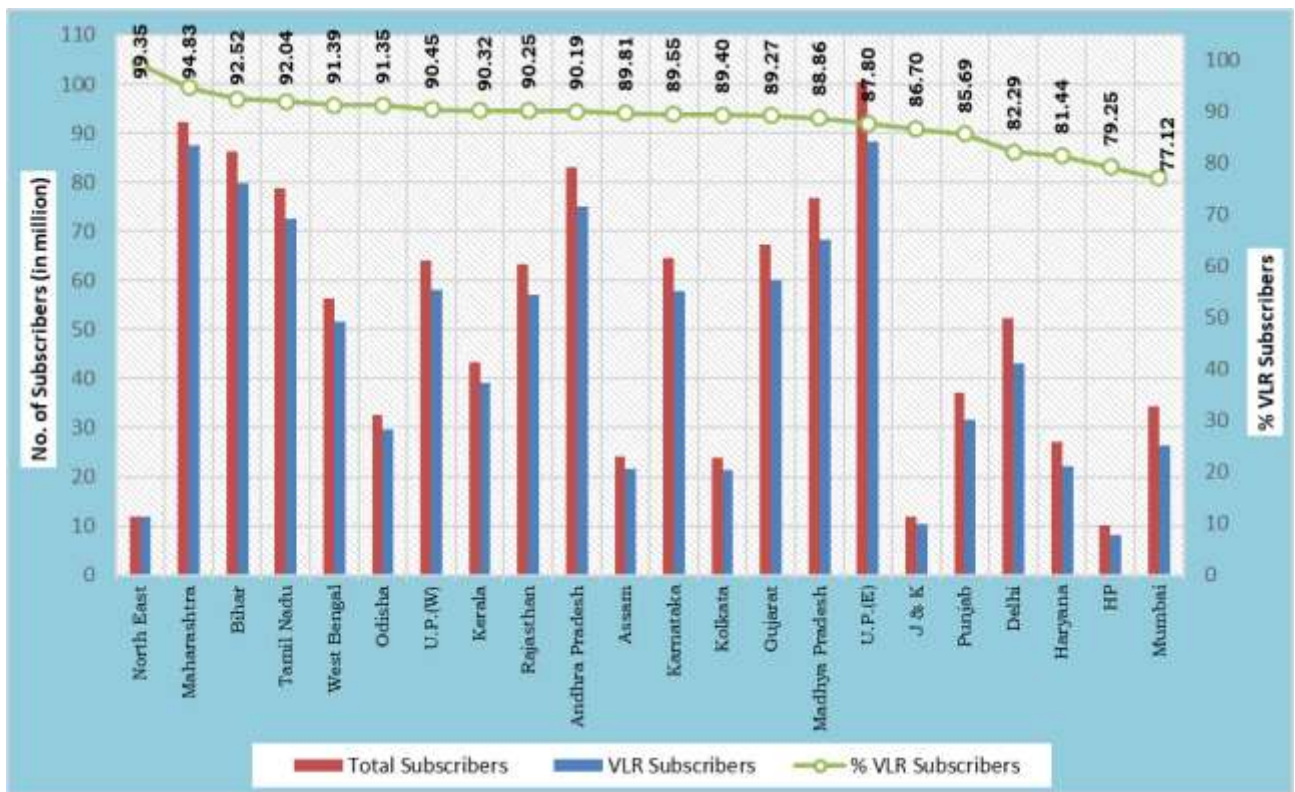
**Access Service Provider-wise Percentage of VLR Subscribers in the month of March, 2022**



- Bharti Airtel has the maximum proportion 98.74% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of March-22 and MTNL has the minimum proportion of VLR 20% of its HLR during the same period.



### Service Area wise percentage of VLR Subscribers in the month of March, 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 March-22, a total of 9.64 million requests were received for MNP. Out of total 9.64 million new requests, 5.65 million requests received from Zone-I and 4 million requests received from Zone-II. The cumulative MNP requests increased from 680.11 million at the end of February-22 to 689.76 million at the end of March-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 56.84 million) followed by Uttar Pradesh-East (about 53 million) service area.

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 53.23 million) followed by Andhra Pradesh (about 51.54 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>Feb-22</b>	<b>Mar-22</b>		<b>Feb-22</b>	<b>Mar-22</b>
Delhi	32.87	33.31	Andhra Pradesh	51.03	51.54
Gujarat	46.04	46.64	Assam	4.90	4.96
Haryana	22.64	22.93	Bihar	33.94	34.65
Himachal Pradesh	3.08	3.12	Karnataka	52.77	53.23
Jammu & Kashmir	1.52	1.55	Kerala	18.24	18.43
Maharashtra	56.02	56.84	Kolkata	13.99	14.12
Mumbai	27.23	27.41	Madhya Pradesh	49.64	50.46
Punjab	24.90	25.21	North East	1.71	1.73
Rajasthan	48.70	49.31	Odisha	13.08	13.24
U.P.(East)	51.60	53.00	Tamil Nadu	49.31	49.73
U.P.(West)	40.84	41.79	West Bengal	36.06	36.57
<b>Total</b>	<b>355.45</b>	<b>361.10</b>	<b>Total</b>	<b>324.66</b>	<b>328.66</b>
<b>Total (Zone-1 + Zone-2)</b>				<b>680.11</b>	<b>689.76</b>
<b>Net Addition (March, 2022)</b>			<b>9.64 million</b>		

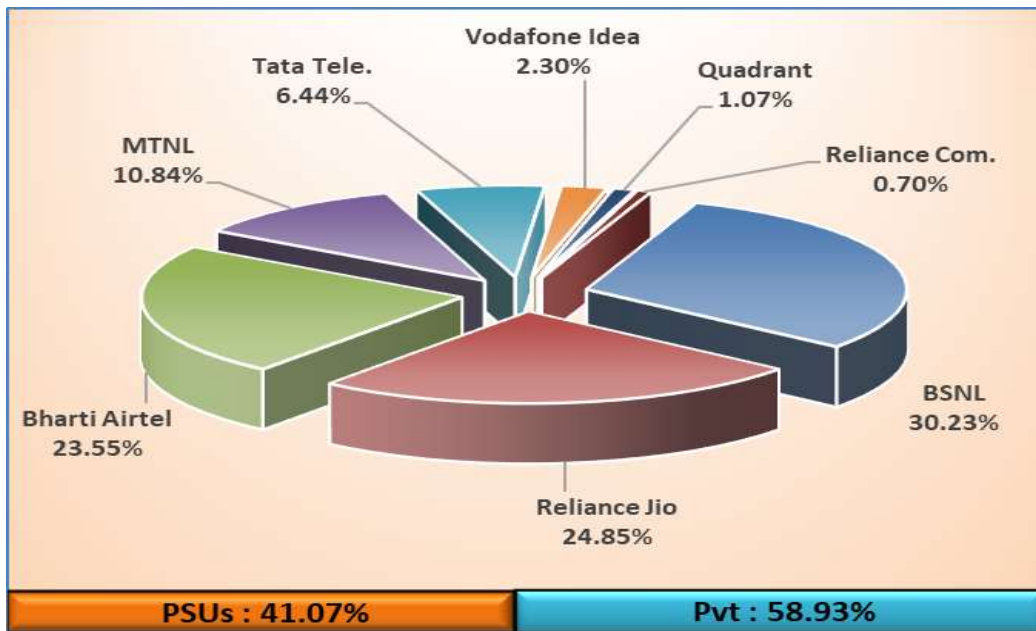
## VII. Wireline Subscribers

- Wireline subscribers increased from 24.52 million at the end of February-22 to 24.84 million at the end of March-22. Net increase in the wireline subscriber base was 0.32 million with a monthly growth rate of 1.31%. The share of urban and rural subscribers in total wireline subscribers were 92.12% and 7.88% respectively at the end of March, 2022.
- The Overall Wireline Tele-density in India, increased from 1.78% at the end of February-22 to 1.81% at the end of March-22. Urban and Rural Wireline Tele-density were 4.77% and 0.22% respectively during the same period.

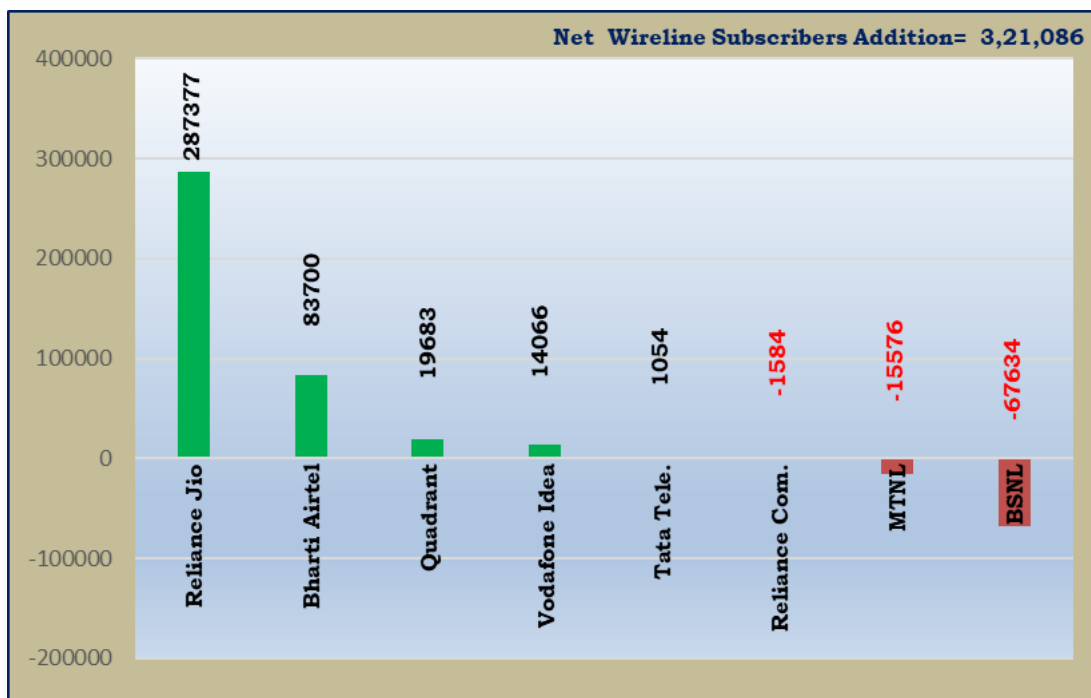
- BSNL and MTNL, the two PSU access service providers, held 41.07% of the wireline market share as on 31<sup>st</sup> March, 2022.

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

**Access Service Provider-wise Market Share of Wireline Subscribers as on 31<sup>st</sup> March, 2022**



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



### VIII. Broadband ( $\geq$ 512 Kbps download)

- As per the information received from 653 operators in March 2022 in comparison to 645 Operator in February 2022, the total Broadband Subscribers increased from 783.37 million at the end of February-22 to 788.30 million at the end of March-22 with a monthly growth rate of 0.63%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

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

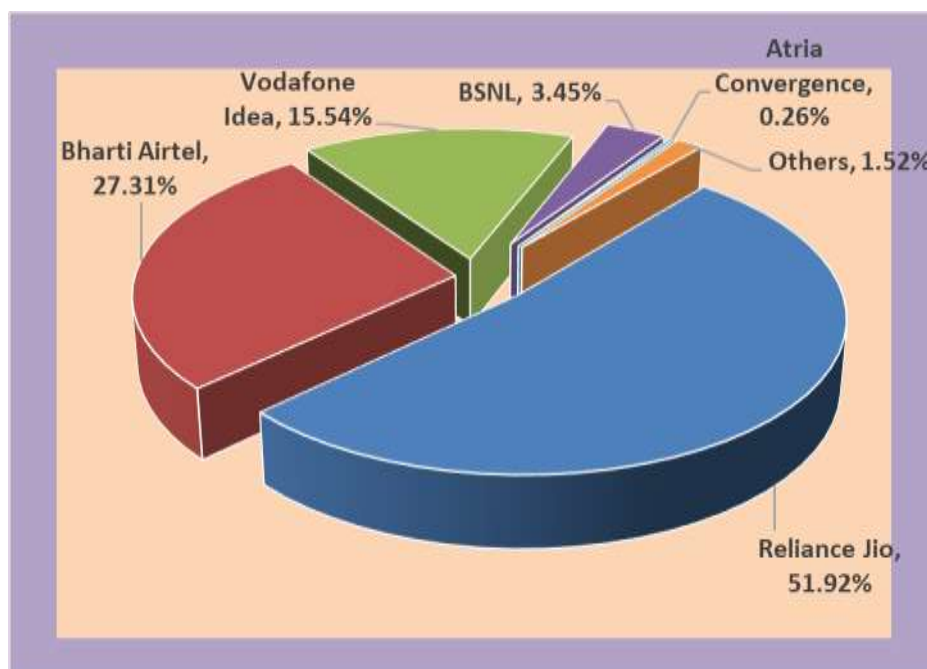
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of March, 2022
	As on 28 <sup>th</sup> February, 2022	As on 31 <sup>st</sup> March, 2022	
Wired subscribers	26.63	27.25	2.33%
Mobile devices users (Phones and dongles)	755.68	759.87	0.55%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	1.06	1.18	10.72%
<b>Total</b>	<b>783.37</b>	<b>788.30</b>	<b>0.63%</b>

- Top five service providers constituted 98.48% market share of the total broadband subscribers at the end of March-22. These service providers were Reliance Jio Infocomm Ltd (409.28 million), Bharti Airtel (215.27 million), Vodafone Idea (122.48 million), BSNL (27.19 million) and Atria Convergence (2.08 million).

Note: Some wireless service providers exclude incidental data users from their subscriber base, based on minimum usage decided by them.

- 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> March 2022**



- As on 31<sup>st</sup> March, 2022, the top five Wired Broadband Service providers were Reliance Jio Infocomm Ltd (5.28 million), Bharti Airtel (4.53 million), BSNL (3.85 million), Atria Convergence Technologies (2.08 million) and Hathway Cable & Datacom (1.11 million).

As on 31<sup>st</sup> March, 2022, the top five Wireless Broadband Service providers were Reliance Jio Infocom Ltd (403.99 million), Bharti Airtel (210.75 million), Vodafone Idea (122.48 million), BSNL (23.34 million) and Intech Online Pvt. Ltd. (0.21 million).

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

Shri Amit Sharma, Advisor (F&EA),  
Telecom Regulatory Authority of India  
Mahanagar Doorsanchar Bhawan  
Jawahar Lal Nehru Marg,  
New Delhi – 110002,  
Ph: 011-23234367 Fax: 011-23235249  
E-mail: advfea2@traf.gov.in

**(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
	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	
Andhra Pradesh	31321286	31366746			13803355	13692242	9307279	9299811					28824624	28761926	<b>83256544</b>	<b>83120725</b>	-135819
Assam	9,984,555	10,043,796			2567962	2501259	3188296	3210135					8266401	8290308	<b>24007214</b>	<b>24045498</b>	38284
Bihar	37,096,283	37,414,631			10314616	10189484	5291655	5438780					33168563	33276206	<b>85871117</b>	<b>86319101</b>	447984
Delhi	16189175	16235553	206	204	16054137	16130457					2152799	2152246	17715367	17752242	<b>52111684</b>	<b>52270702</b>	159018
Gujarat	11771457	11978342	109	78	23867662	23787229	5596715	5584147					25753239	25949345	<b>66989182</b>	<b>67299141</b>	309959
Haryana	5860741	5921655	19	19	7918102	7833440	4946357	4935801					8544389	8531886	<b>27269608</b>	<b>27222801</b>	-46807
Himachal Pradesh	3312278	3317454	93	93	568575	558401	2776272	2773564					3555618	3521078	<b>10212836</b>	<b>10170590</b>	-42246
J & K	5588163	5632326	0	0	435897	430021	1322743	1321119					4495332	4566655	<b>11842135</b>	<b>11950121</b>	107986
Karnataka	30621855	30664024	715	653	7827250	7639731	6859823	6858477					19592774	19505818	<b>64902417</b>	<b>64668703</b>	-233714
Kerala	7706947	7734058	183	165	16163782	15953380	10567195	10520191					9222719	9166678	<b>43660826</b>	<b>43374472</b>	-286354
Kolkata	5683302	5709242	0	0	6136945	6076759	2223499	2260124					9748635	9726519	<b>23792381</b>	<b>23772644</b>	-19737
Madhya Pradesh	15082785	15080492	0	0	20307524	19984148	6029470	6026898					35103338	35667197	<b>76523117</b>	<b>76758735</b>	235618
Maharashtra	20138484	20274742	0	0	29301925	28714243	6665130	6656723					36131701	36653409	<b>92237240</b>	<b>92299117</b>	61877
Mumbai	9620974	9693295	1330	1270	11846621	11837333					1098953	1096405	11653047	11637672	<b>34220925</b>	<b>34265975</b>	45050
North East	5589232	5628807	0	0	1120579	1099337	1356526	1358731					3813016	3831508	<b>11879353</b>	<b>11918383</b>	39030
Odisha	11004185	11069813	62	54	1883692	1829944	6234994	6262887					13423905	13366795	<b>32546838</b>	<b>32529493</b>	-17345
Punjab	11798232	11909677	123	117	8618570	8546865	5308297	5301931					11377338	11227549	<b>37102560</b>	<b>36986139</b>	-116421
Rajasthan	21609275	21819804	181	170	11183574	11073954	6436509	6545223					23431111	23746244	<b>62660650</b>	<b>63185395</b>	524745
Tamil Nadu	27585280	27403128	310	293	17898703	17928621	10142269	9665252	53,510	53,545			23867178	23801100	<b>79547250</b>	<b>78851939</b>	-695311
U.P.(E)	36659560	37152947	0	0	20942068	20543055	11070126	11047872					31909847	31861176	<b>100581601</b>	<b>100605050</b>	23449
U.P.(W)	18268262	18499362	17	9	19026856	18762746	5895131	5955327					20773542	20868507	<b>63963808</b>	<b>64085951</b>	122143
West Bengal	15583324	15781370	290	222	15804656	15662083	2597378	2665422					22361913	22284113	<b>56347561</b>	<b>56393210</b>	45649
<b>Total</b>	<b>358075635</b>	<b>360331264</b>	<b>3638</b>	<b>3347</b>	<b>263593051</b>	<b>260774732</b>	<b>113815664</b>	<b>113688415</b>	<b>53510</b>	<b>53545</b>	<b>3251752</b>	<b>3248651</b>	<b>402733597</b>	<b>403993931</b>	<b>1141526847</b>	<b>1142093885</b>	<b>567038</b>
<b>Net Addition</b>		<b>2255629</b>		<b>-291</b>		<b>-2818319</b>		<b>-127249</b>		<b>35</b>		<b>-3101</b>		<b>1260334</b>	0	<b>567038</b>	
<b>Rural Subscribers</b>	172,287,323	173,975,045	0	0	133087637	131451546	36,503,979	36,623,398	0	0	44994	44982	174417790	175767566	<b>516341723</b>	<b>517862537</b>	<b>1520814</b>

**Note:** 1. The subscribers of M/s Bharti Airtel includes subscribers of M/s Tata Teleservices Ltd.  
 2. Virtual Network Operator (VNO) of BSNL has reported its subscriber number from the month of October, 2018.

<b>Proportion of VLR on the date of Peak VLR in the month of March-22 (%)</b>							<b>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>	98.11	57.86	90.01		-	92.10	<b>90.19</b>
<b>Assam</b>	100.16	43.20	93.34		-	94.26	<b>89.81</b>
<b>Bihar</b>	96.45	50.77	81.28		-	98.37	<b>92.52</b>
<b>Delhi</b>	97.18		69.76	13.99	96.08	88.32	<b>82.29</b>
<b>Gujarat</b>	99.34	47.80	91.12		96.15	91.86	<b>89.27</b>
<b>Haryana</b>	107.92	36.05	87.44		78.95	83.83	<b>81.44</b>
<b>Himachal Pradesh</b>	100.78	37.83	104.80		31.18	87.55	<b>79.25</b>
<b>J &amp; K</b>	95.22	50.74	82.92		-	86.96	<b>86.70</b>
<b>Karnataka</b>	95.04	50.29	89.50		91.42	94.74	<b>89.55</b>
<b>Kerala</b>	103.28	74.50	91.35		97.58	95.76	<b>90.32</b>
<b>Kolkata</b>	94.60	46.16	89.15		-	96.56	<b>89.40</b>
<b>Madhya Pradesh</b>	99.90	46.95	84.35		-	93.81	<b>88.86</b>
<b>Maharashtra</b>	106.60	63.98	87.65		-	99.54	<b>94.83</b>
<b>Mumbai</b>	85.29		69.29	31.80	67.32	82.56	<b>77.12</b>
<b>North East</b>	106.34	63.56	94.53		-	103.17	<b>99.35</b>
<b>Odisha</b>	101.44	56.75	95.64		31.48	98.62	<b>91.35</b>
<b>Punjab</b>	105.56	43.57	83.87		67.52	85.88	<b>85.69</b>
<b>Rajasthan</b>	99.38	45.59	92.90		60.00	92.95	<b>90.25</b>
<b>Tamil Nadu</b>	97.18	71.40	95.25		95.90	92.12	<b>92.04</b>
<b>U.P. (E)</b>	98.00	33.43	84.28		-	97.02	<b>87.80</b>
<b>U.P. (W)</b>	102.21	41.62	90.25		77.78	94.15	<b>90.45</b>
<b>West Bengal</b>	96.29	70.70	88.10		39.64	92.71	<b>91.39</b>
<b>Total</b>	<b>98.74</b>	<b>52.60</b>	<b>86.70</b>	<b>20.00</b>	<b>74.75</b>	<b>93.80</b>	<b>89.42</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
	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	Feb-22	Mar-22	
Andhra Pradesh	684713	692320			346590	352032	19932	20035	157072	156683			63860	65410	674549	708510	1946716	1994990	48274
Assam	103,678	103,782			0	0	0	0	0	0			2850	2820	95127	102291	201655	208893	7238
Bihar	173,201	167,828			0	0	9	9	7952	8152			1710	1890	246203	261865	429075	439744	10669
Delhi	0	0	1287403	1284568	1757932	1773430	28794	28539	139500	138455			84520	84260	585454	617697	3883603	3926949	43346
Gujarat	404734	393836			155498	160949	3455	3420	77156	77575			44186	43986	364129	382794	1049158	1062560	13402
Haryana	185119	184984			47274	48246	0	0	33236	32688			330	330	66220	69179	332179	335427	3248
Himachal Pradesh	88207	88425			0	0	0	0	1562	1563			30	30	29145	31160	118944	121178	2234
J & K	102611	101378			39571	40024	0	0	0	0			30	30	135768	139539	277980	280971	2991
Karnataka	873527	879553			903620	920943	23633	22923	246021	246903			116937	121757	481571	511274	2645309	2703353	58044
Kerala	1057379	1054283			78741	79432	4703	4666	18584	18781			8910	8960	145867	153820	1314184	1319942	5758
Kolkata	381675	382575			168690	170510	6394	6310	45367	45506			11915	12535	266233	281928	880274	899364	19090
Madhya Pradesh	287268	281090			350971	354987	5	5	12199	12164			10560	16560	351521	370286	1012524	1035092	22568
Maharashtra	713630	701616			267468	276161	10245	10148	211986	211678			25493	25463	158621	163694	1387443	1388760	1317
Mumbai	0	0	1421811	1409070	471553	478389	50460	50549	481119	481882			106311	106951	564835	583164	3096089	3110005	13916
North East	80185	80057			0	0	0	0	0	0			330	330	78887	84129	159402	164516	5114
Odisha	189335	188482			0	0	4	4	7959	7990			3770	3710	117882	126797	318950	326983	8033
Punjab	313889	313453			183628	186740	1616	1578	13710	13882	247116	266799	2190	2040	158190	166589	920339	951081	30742
Rajasthan	293219	292244			137655	139265	3909	3981	12743	12822			15580	15700	216983	225772	680089	689784	9695
Tamil Nadu	1025074	1026022			664907	672072	22507	21915	118548	118938			37680	38570	459901	471395	2328617	2348912	20295
U.P.(E)	186996	146270			98535	100907	20	20	8094	8159			16930	16780	267406	278805	577981	550941	-27040
U.P.(W)	199288	196937			93967	96213	7	7	4404	4450			4170	4246	285926	300745	587762	602598	14836
West Bengal	232936	233895			0	0	12	12	2553	2548			120	120	134776	141138	370397	377713	7316
<b>Total</b>	<b>7576664</b>	<b>7509030</b>	<b>2709214</b>	<b>2693638</b>	<b>5766600</b>	<b>5850300</b>	<b>175705</b>	<b>174121</b>	<b>1599765</b>	<b>1600819</b>	<b>247116</b>	<b>266799</b>	<b>558412</b>	<b>572478</b>	<b>5885194</b>	<b>6172571</b>	<b>24518670</b>	<b>24839756</b>	<b>321086</b>
<b>Net Addition</b>		<b>-67634</b>		<b>-15576</b>		<b>83700</b>		<b>-1584</b>		<b>1054</b>		<b>19683</b>		<b>14066</b>		<b>287377</b>		<b>321086</b>	
<b>Rural Subscribers</b>	1813374	1806675	0	0	0	0	180	150	37612	37562	22931	22618	0	0	70756	89170	1944853	1956175	11322

**Note:** - BSNL-FTTH Voice-connections have also been incorporated from the month of May 2021



## 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.