



सत्यमेव जयते

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 12<sup>th</sup> July, 2021

(www.trai.gov.in)

**Highlights of Telecom Subscription Data as on 30<sup>th</sup> April, 2021**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Total Telephone Subscribers</b> (Million)	<b>1183.11</b>	<b>20.36</b>	<b>1203.47</b>
Net Addition in April, 2021 (Million)	2.16	0.12	2.28
Monthly Growth Rate	0.18%	0.60%	0.19%
<b>Urban Telephone Subscribers</b> (Million)	<b>645.62</b>	<b>18.72</b>	<b>664.34</b>
Net Addition in April, 2021 (Million)	0.42	0.15	0.56
Monthly Growth Rate	0.06%	0.78%	0.08%
<b>Rural Telephone Subscribers</b> (Million)	<b>537.49</b>	<b>1.64</b>	<b>539.14</b>
Net Addition in April, 2021 (Million)	1.74	-0.02	1.72
Monthly Growth Rate	0.32%	-1.43%	0.32%
<b>Overall Tele-density*(%)</b>	<b>86.78%</b>	<b>1.49%</b>	<b>88.27%</b>
Urban Tele-density*(%)	136.96%	3.97%	140.93%
Rural Tele-density*(%)	60.26%	0.18%	60.44%
Share of Urban Subscribers	54.57%	91.93%	55.20%
Share of Rural Subscribers	45.43%	8.07%	44.80%
<b>Broadband Subscribers</b> (Million)	<b>760.45</b>	<b>22.42</b>	<b>782.86</b>

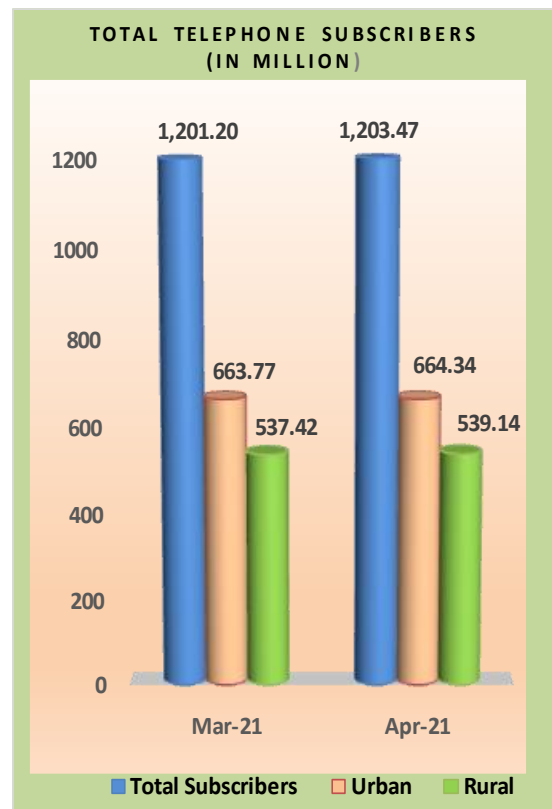
- ❖ In the month of April, 2021, 9.67 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 576.67 million at the end of March-21 to 586.33 million at the end of April-21, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in April, 2021 was 997.37 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 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.

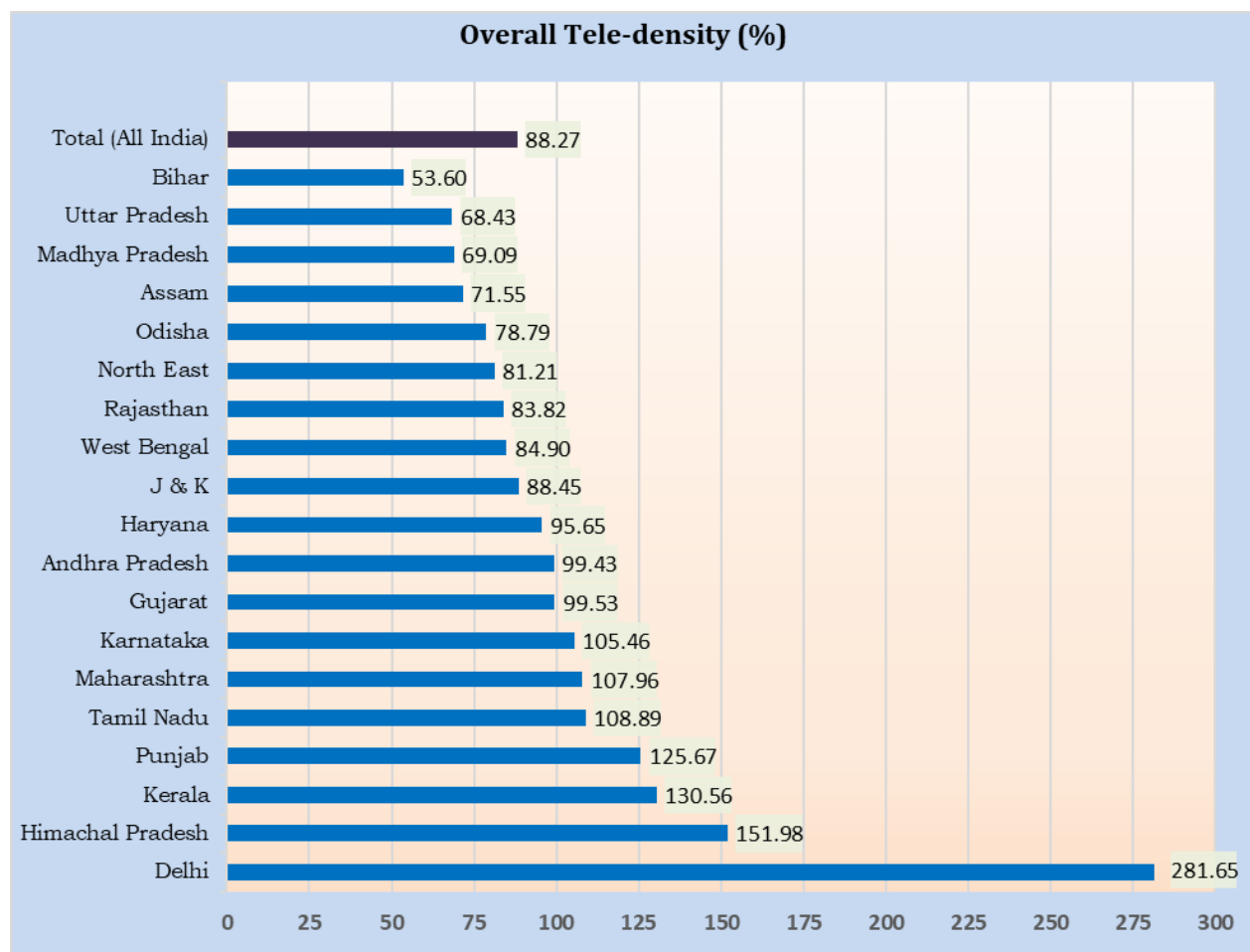
## I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,201.20 million at the end of March-21 to 1,203.47 million at the end of April-21, thereby showing a monthly growth rate of 0.19%. Urban telephone subscription increased from 663.77 million at the end of March-21 to 664.34 million at the end of April-21 and the rural subscription also increased from 537.42 million to 539.14 million during the same period. The monthly growth rates of urban and rural telephone subscription were 0.08% and 0.32% respectively during the month of April-21.



- The overall Tele-density in India increased from 88.17% at the end of March-21 to 88.27% at the end of April-21. The Urban Tele-density decreased from 141.03% at the end of March-21 to 140.93% at the end of April-21, however, Rural Tele-density increased from 60.27% to 60.44% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of April-21 was 55.20% and 44.80% respectively.

## Overall Tele-density (LSA Wise) – As on 30<sup>th</sup> April, 2021



- As may be seen in the above chart, eight states have less tele-density than the all India average tele-density at the end of April-21. Delhi service area has maximum tele-density of 281.65% and the Bihar service area has minimum tele-density of 53.60% at the end of April-21.

### 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 link [https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload\\_compressed\\_0.pdf](https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf).
- Telephone subscriber data for Delhi, includes, apart from the data for the State of Delhi, wireless subscriber data for the areas served by the local exchanges of Ghaziabad & Noida (in Uttar Pradesh) and Gurgaon & Faridabad (in Haryana).
- Data/information for West Bengal includes Kolkata, Maharashtra includes Mumbai and Uttar Pradesh includes UPE & UPW service area(s).
- Data/information for Andhra Pradesh includes Telengana, Madhya Pradesh includes Chhatisgarh, Bihar includes Jharkhand, Maharashtra includes Goa, Uttar Pradesh includes Uttarakhand, West Bengal includes Sikkim and North-East includes Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland & Tripura States.

## II. Category-wise Growth in subscriber base

### Circle Category-wise Net Additions in Telephone Subscribers in the month of April 2021

Circle Category	Net additions in the month of April, 2021		Telephone Subscriber base as on 30 <sup>th</sup> April, 2021	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	40,107	122,610	7,706,303	404,577,237
Circle B	-132,050	2,227,467	4,372,167	478,640,567
Circle C	37,104	400,405	980,962	181,611,697
Metro	176,402	-593,370	7,301,800	118,283,748
<b>All India</b>	<b>121,563</b>	<b>2,157,112</b>	<b>20,361,232</b>	<b>1,183,113,249</b>

### Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of April 2021

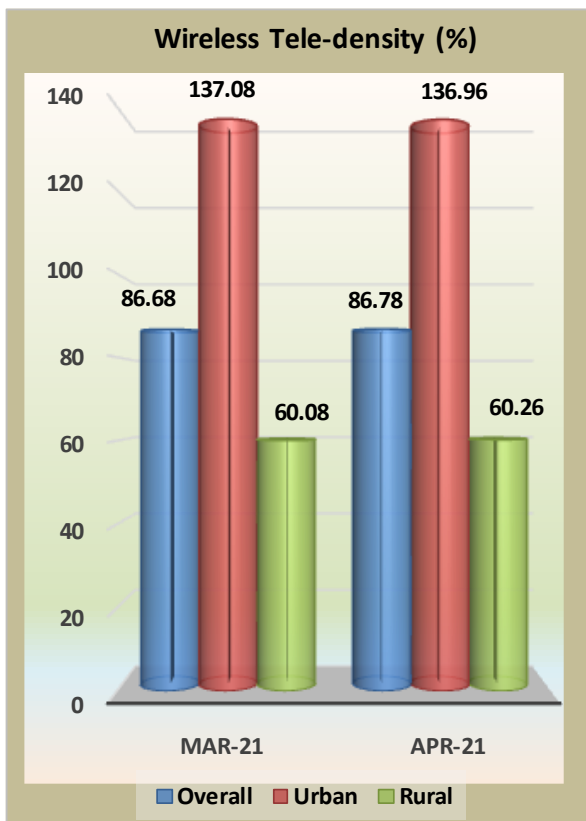
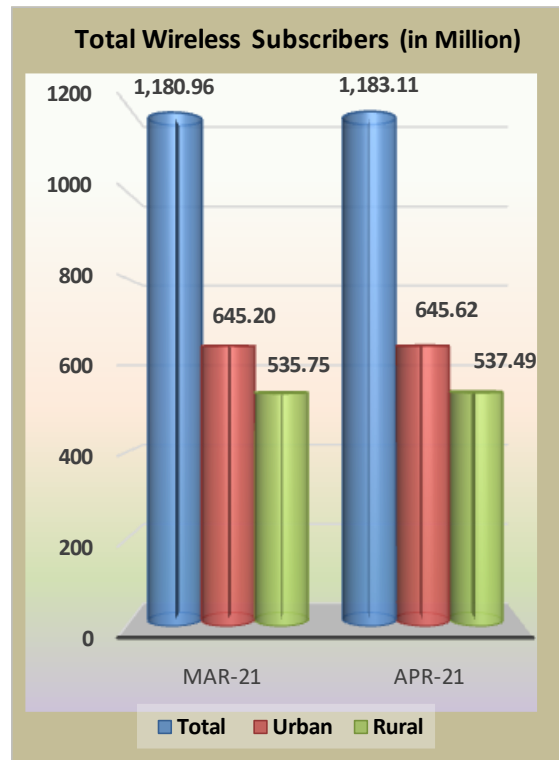
Circle Category	Monthly growth rate (%) (March-21 to April-21)		Yearly growth rate (%) (April-20 to April-21)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	0.52%	0.03%	-0.19%	2.75%
Circle B	-2.93%	0.47%	-1.32%	2.87%
Circle C	3.93%	0.22%	18.51%	4.01%
Metro	2.48%	-0.50%	5.21%	2.09%
<b>All India</b>	<b>0.60%</b>	<b>0.18%</b>	<b>2.22%</b>	<b>2.92%</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 Metro, Circle of all category showed growth rate in their subscribers during the month of April, 2021. On yearly basis Circles of all categories have registered growth rate in their subscriber base.
- In Wireline segment, on monthly basis except Circle 'B', circle of all categories showed growth rate in their number of wireline subscribers during the month of April, 2021. On yearly basis only Circles C and Metro have registered growth rate in its subscriber base.

### III. Wireless subscriber

• Total wireless subscribers increased from 1,180.96 million at the end of March-21 to 1,183.11 million at the end of April-21, thereby registering a monthly growth rate of 0.18%. Wireless subscription in urban areas increased from 645.20 million at the end of March-21 to 645.62 million at the end of April-21 and wireless subscription in rural areas also increased from 535.75 million to 537.49 million during the same period. Monthly growth rates of urban and rural wireless subscription were 0.06% and 0.32% respectively.

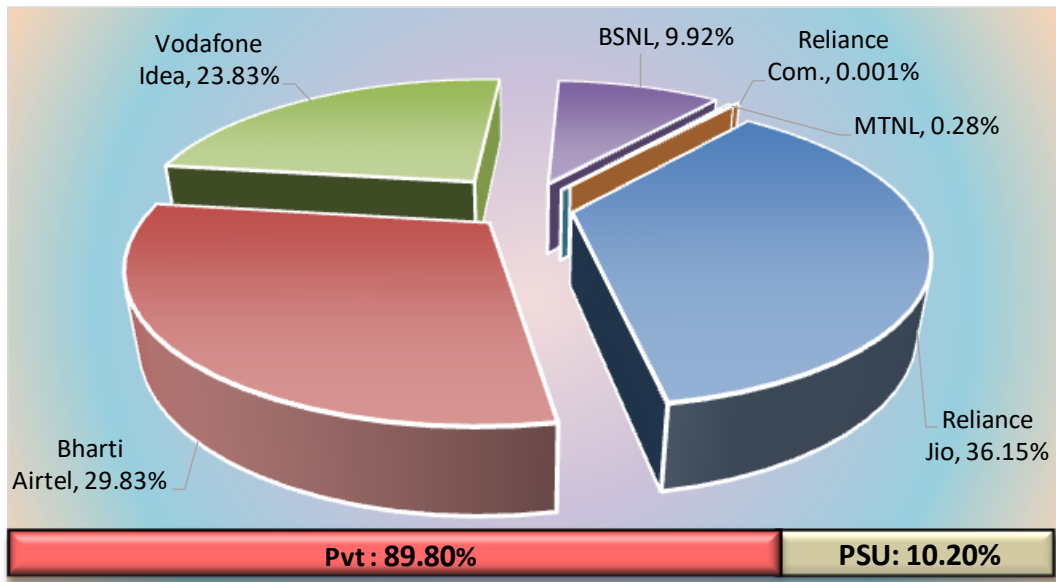


• The Wireless Tele-density in India increased from 86.68% at the end of March-21 to 86.78% at the end of April-21. The Urban Wireless Tele-density decreased from 137.08% at the end of March-21 to 136.96% at the end of April-21 however, Rural Tele-density increased from 60.08% to 60.26% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.57% and 45.43% respectively at the end of April-21. Detailed statistics of wireless subscriber

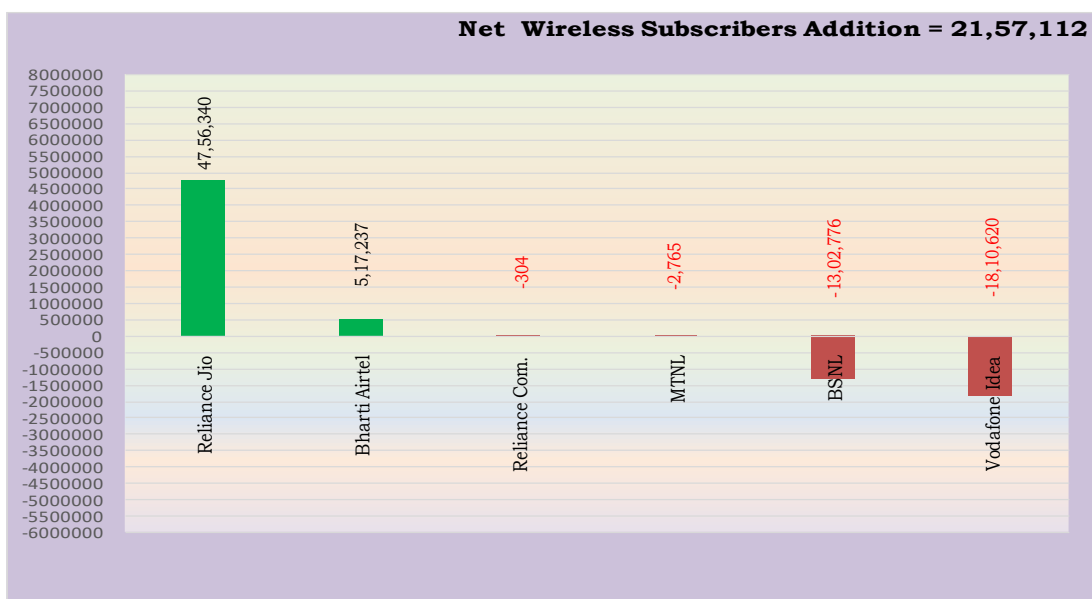
base is available at **Annexure-I**.

- As on 30<sup>th</sup> April, 2021, the private access service providers held 89.80% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 10.20%.
- 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> April, 2021**



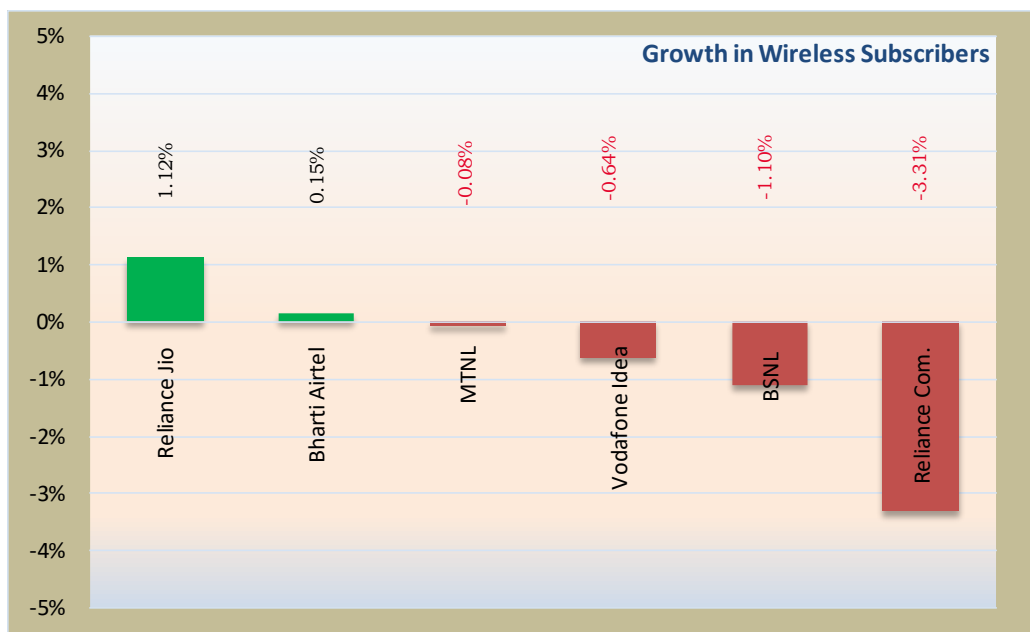
**Net Additions/decline in Wireless Subscribers of Access Service Providers in the month of April 2021**



- 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.

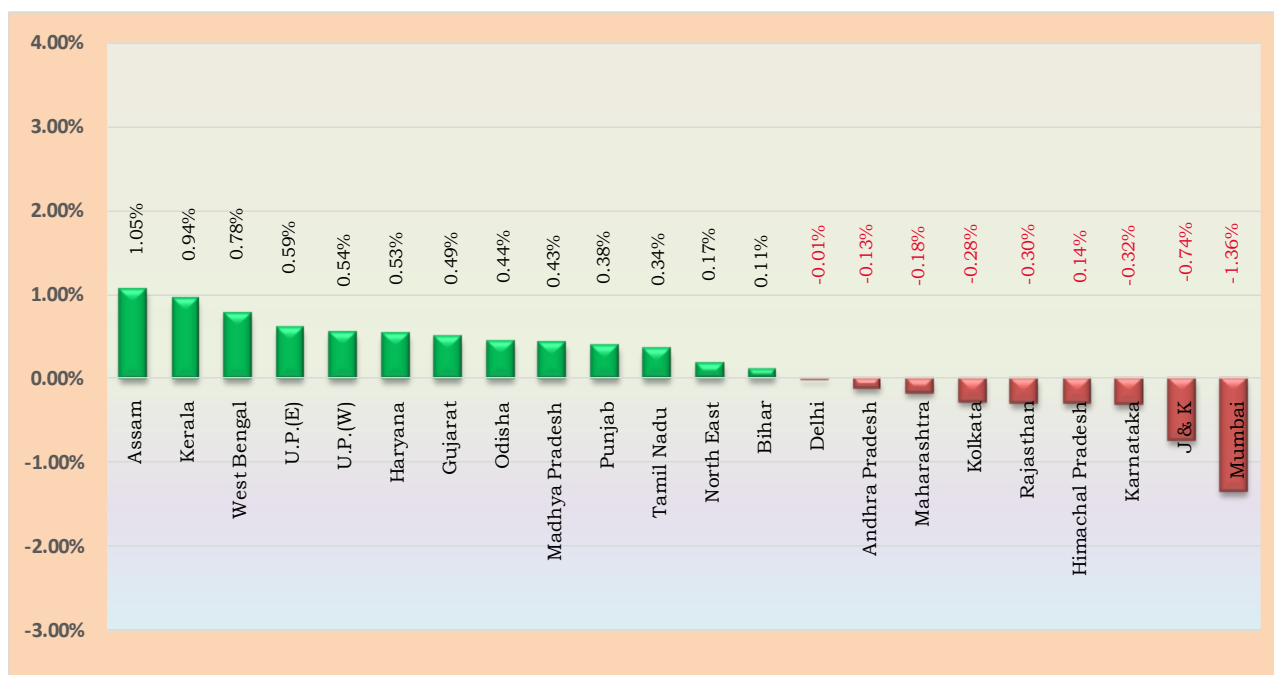
#### IV. Growth in Wireless Subscribers

**Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the month of April, 2021**



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

**Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of April 2021**

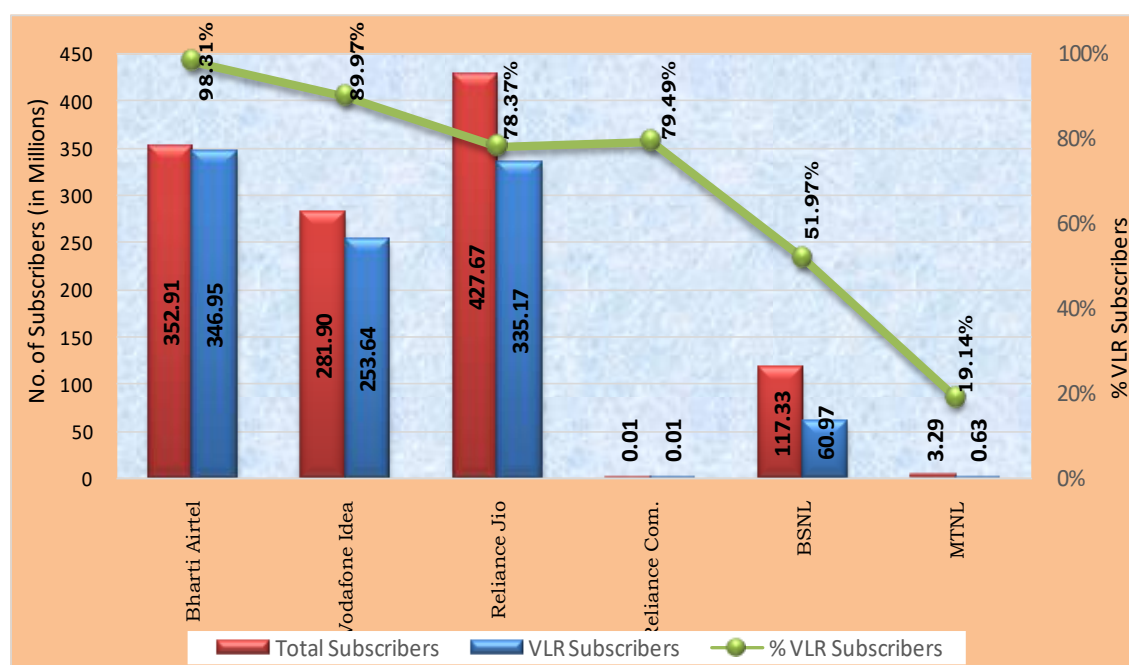


- Most of the service areas showed growth in their wireless subscribers during the month of April-21. Assam area showed maximum growth of 1.05% in its wireless subscriber base during the month.

## V. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscribers (1,183.11 million), 997.37 million wireless subscribers were active on the date of peak VLR in the month of April-21. The proportion of active wireless subscribers was approximately 84.30% 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 April-21 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

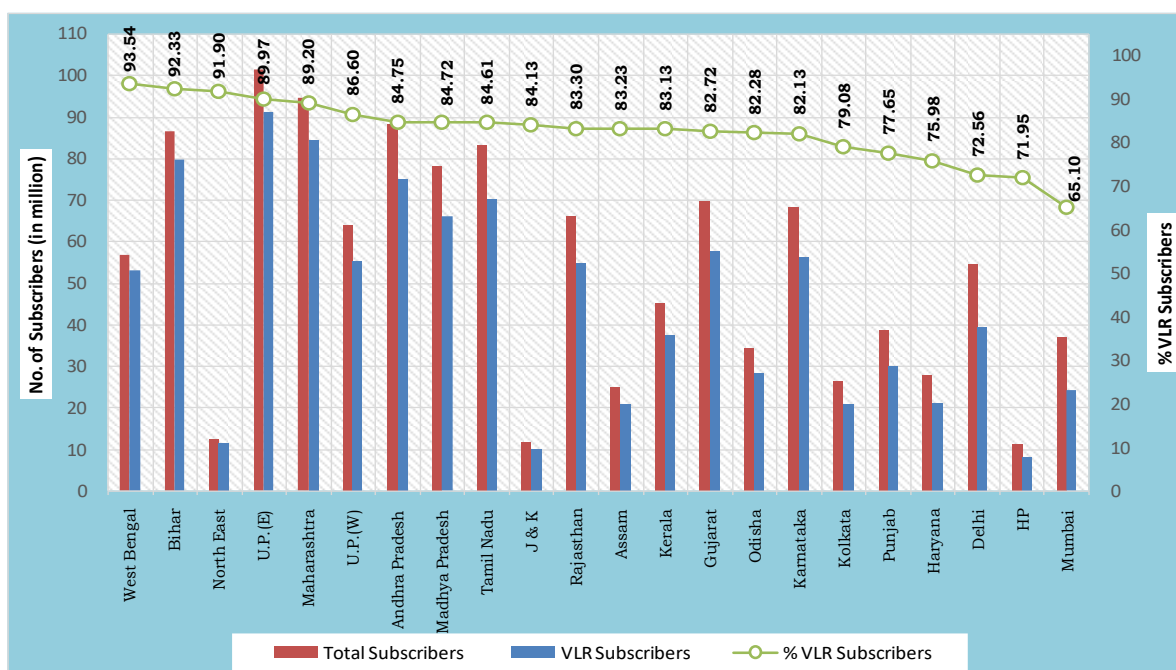
**Access Service Provider-wise Percentage of VLR Subscribers in the month of April, 2021**



- Bharti Airtel has the maximum proportion (98.31%) of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of April-21 and MTNL has the minimum proportion of VLR (19.14%) of its HLR during the same period.



### Service Area wise percentage of VLR Subscribers in the month of April 2021



## 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 April-21, a total of 9.67 million requests were received for MNP. Out of total 9.67 million new requests, 5.55 million requests received from Zone-I and 4.11 million requests received from Zone-II. The cumulative MNP requests increased from 576.67 million at the end of March-21 to 586.33 million at the end of April-21, 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 47.87 million) followed by Rajasthan (about 43 million) service area.
- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 48.47 million) followed by Andhra Pradesh (about 46.41 million).

Service Area Wise MNP Status					
Zone - 1			Zone - 2		
Service Area	Number of Porting Requests (in Million)		Service Area	Number of Porting Requests (in Million)	
	Mar-21	Apr-21		Mar-21	Apr-21
Delhi	28.64	29.06	Andhra Pradesh	45.94	46.41
Gujarat	38.59	39.24	Assam	4.15	4.20
Haryana	19.84	20.13	Bihar	26.37	27.12
Himachal Pradesh	2.73	2.78	Karnataka	48.05	48.47
Jammu & Kashmir	1.32	1.33	Kerala	15.40	15.62
Maharashtra	47.14	47.87	Kolkata	12.59	12.72
Mumbai	25.49	25.64	Madhya Pradesh	40.89	41.53
Punjab	21.98	22.37	North East	1.56	1.58
Rajasthan	42.42	43.00	Odisha	11.31	11.54
U.P.(East)	37.93	39.17	Tamil Nadu	44.97	45.42
U.P.(West)	30.27	31.32	West Bengal	29.07	29.81
<b>Total</b>	<b>296.36</b>	<b>301.92</b>	<b>Total</b>	<b>280.30</b>	<b>284.42</b>
<b>Total (Zone-1 + Zone-2)</b>				<b>576.67</b>	<b>586.33</b>
<b>Net Addition (April, 2021)</b>			<b>9.67 million</b>		

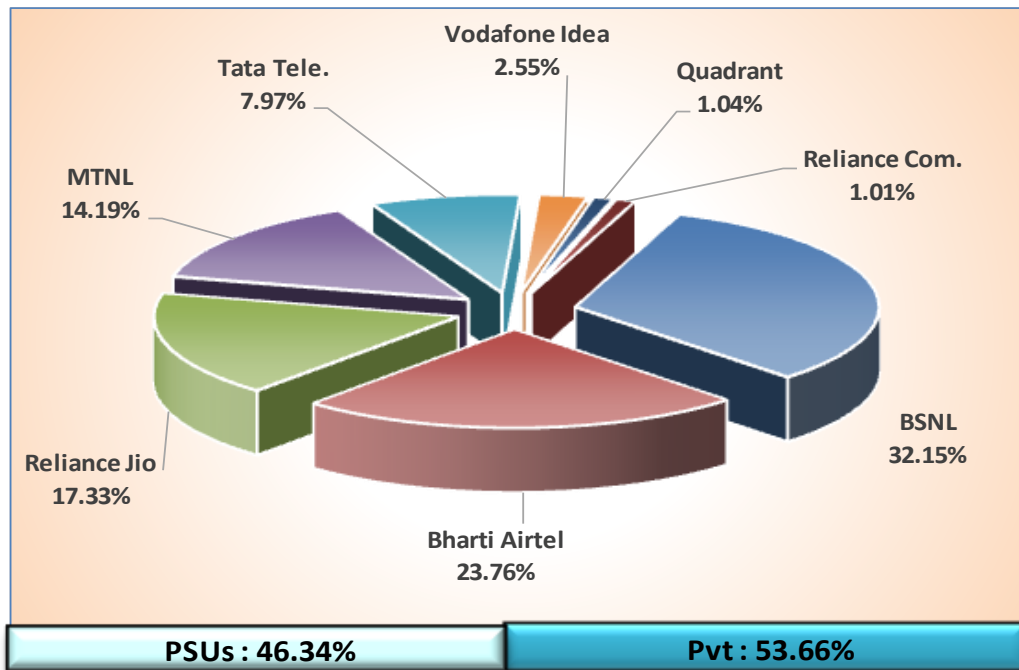
## VII. Wireline Subscribers

- Wireline subscribers increased from 20.24 million at the end of March-21 to 20.36 million at the end of April-21. Net increase in the wireline subscriber base was 0.12 million with a monthly growth rate of 0.60%. The share of urban and rural subscribers in total wireline subscribers were 91.93% and 8.07% respectively at the end of April, 2021.
- The Overall Wireline Tele-density in April-21 remained same i.e. 1.49%

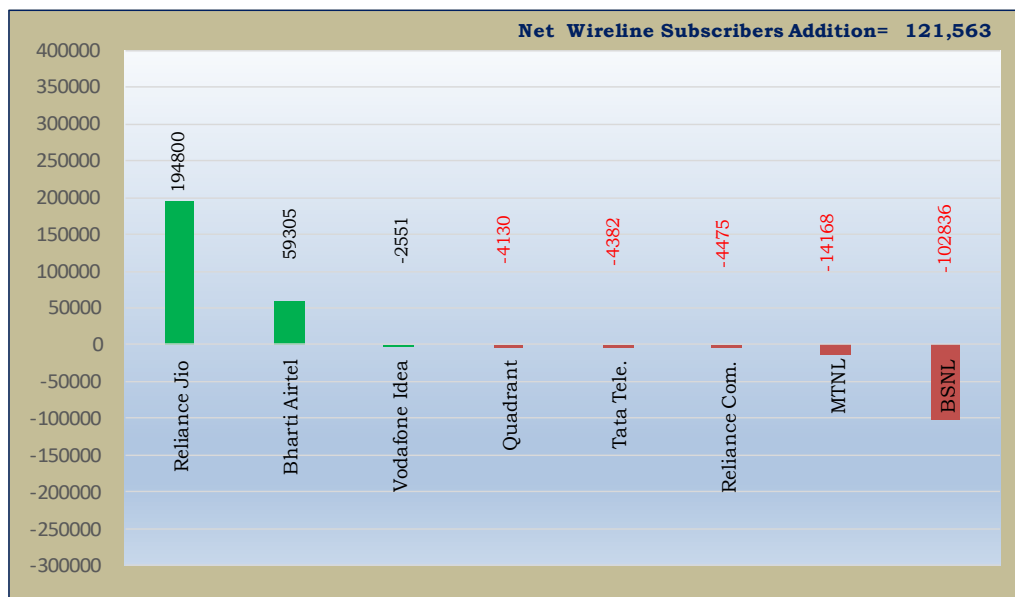
as it was in the month of March-21. Urban and Rural Wireline Tele-density were 3.97% and 0.18% respectively during the same period.

- BSNL and MTNL, the two PSU access service providers, held 46.34% of the wireline market share as on 30<sup>th</sup> April, 2021. Detailed statistics of wireline subscriber base are available at **Annexure-III.**

### Access Service Provider-wise Market Share of Wireline Subscribers as on 30<sup>th</sup> April, 2021



### Access Service Provider-wise Net Additions/Decline in Wireline Subscribers during the month of April, 2021



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

- As per the reports received from 438 operators in the month of April, 2021, the number of broadband subscribers increased from 778.09 million at the end of March-21 to 782.86 million at the end of April-21 with a monthly growth rate of 0.61%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

#### Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of April, 2021

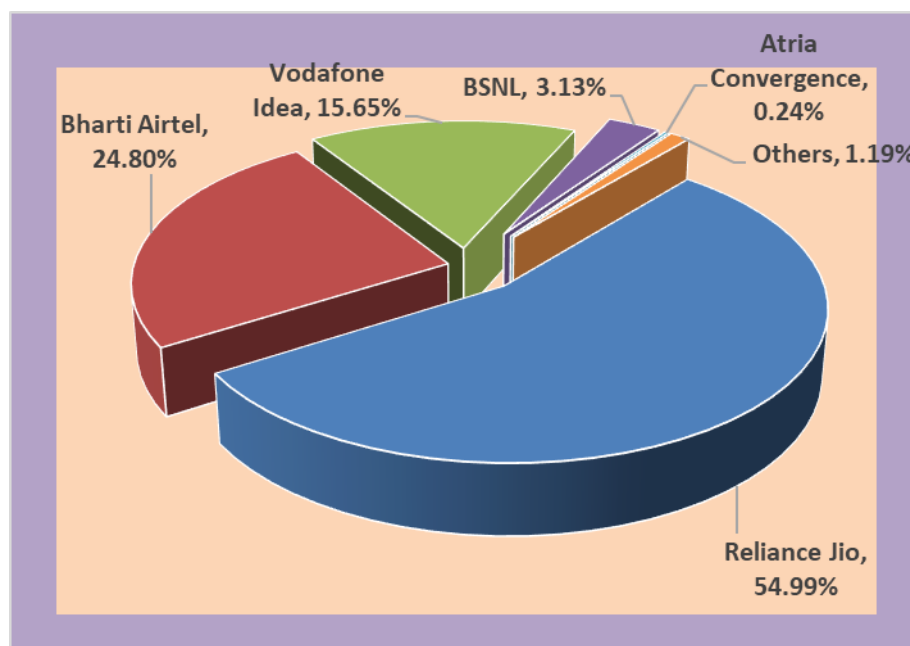
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of April-21
	As on 31 <sup>st</sup> March, 2021	As on 30 <sup>th</sup> April, 2021	
Wired subscribers	22.75	22.42	-1.44%
Mobile devices users (Phones and dongles)	754.67	759.78	0.68%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.67	0.67	-0.91%
<b>Total</b>	<b>778.09</b>	<b>782.86</b>	<b>0.61%</b>

- Top five service providers constituted 98.81% market share of the total broadband subscribers at the end of April-21. These service providers were Reliance Jio Infocomm Ltd (430.47 million), Bharti Airtel (194.18 million), Vodafone Idea (122.54 million), BSNL (24.52 million) and Atria Convergence (1.87 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 30<sup>th</sup> April 2021**



- As on 30<sup>th</sup> April, 2021, the top five Wired Broadband Service providers were BSNL (6.03 million), Bharti Airtel (3.19 million), Reliance Jio Infocomm Ltd (2.80 million), Atria Convergence Technologies (1.87 million) and Hathway Cable & Datacom (1.08 million).

- As on 30<sup>th</sup> April, 2021, the top five Wireless Broadband Service providers were Reliance Jio Infocom Ltd (427.67 million), Bharti Airtel (190.99 million), Vodafone Idea (122.53 million), BSNL (18.49 million) and Tikona Ininet Ltd. (0.32 million).

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

**Wireless Subscriber Base**

**Annexure-I**

Circle	Bharti Airtel (including Tata Tele.)		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	
Andhra Pradesh	31320614	31318378	1029	1013	15752480	15587525	9686428	9608341					31972495	32100593	<b>88733046</b>	<b>88615850</b>	-117196
Assam	9238358	9379532			3203509	3165463	3033066	3048464					9243798	9384721	<b>24718731</b>	<b>24978180</b>	259449
Bihar	35992515	36139628	169	154	12113773	12007372	5845757	5746822					32515243	32664356	<b>86467457</b>	<b>86558332</b>	90875
Delhi	16429584	16341350	473	443	16219011	16132680					2161329	2160448	19743775	19911558	<b>54554172</b>	<b>54546479</b>	-7693
Gujarat	12097288	12169824	196	193	25254129	25172519	5906595	5896003					26151330	26511698	<b>69409538</b>	<b>69750237</b>	340699
Haryana	5479581	5578327	84	72	8256208	8241187	5055231	5013897					9087484	9193650	<b>27878588</b>	<b>28027133</b>	148545
Himachal Pradesh	3363193	3300897	96	96	674361	663238	3021606	3012651					4132426	4180766	<b>11191682</b>	<b>11157648</b>	-34034
J & K	5623564	5531037	0	0	499253	498872	1270192	1272918					4645034	4646477	<b>12038043</b>	<b>11949304</b>	-88739
Karnataka	30624712	30372948	1776	1757	9219033	9094320	7214006	7152543					21577501	21797029	<b>68637028</b>	<b>68418597</b>	-218431
Kerala	6793854	6813547	461	448	16934704	17218904	10912516	10888112					10196287	10339374	<b>44837822</b>	<b>45260385</b>	422563
Kolkata	5916041	5809009	28	27	7003470	6974869	2536248	2446659					11218010	11368418	<b>26673797</b>	<b>26598982</b>	-74815
Madhya Pradesh	15417273	15462632	358	344	21630851	21481650	6310875	6210167					34515319	35052363	<b>77874676</b>	<b>78207156</b>	332480
Maharashtra	19104894	19351657	413	380	32234994	31824364	6824196	6743455					36747170	36824238	<b>94911667</b>	<b>94744094</b>	-167573
Mumbai	10082609	9673482	869	861	11327047	11165679					1134692	1132808	15103932	15165457	<b>37649149</b>	<b>37138287</b>	-510862
North East	5430407	5434984	0	0	1407306	1376369	1370848	1352812					4242689	4308701	<b>12451250</b>	<b>12472866</b>	21616
Odisha	11177746	11194259	201	191	2364640	2314933	6476145	6391505					14325397	14594479	<b>34344129</b>	<b>34495367</b>	151238
Punjab	11651761	11577153	345	339	8683278	8720556	5759876	5656446					12739934	13029017	<b>38835194</b>	<b>38983511</b>	148317
Rajasthan	21955246	21803772	309	298	12248986	12160871	6398967	6300409					25693559	25830189	<b>66297067</b>	<b>66095539</b>	-201528
Tamil Nadu	27090503	27373468	762	697	19285654	19270695	10998776	10728154	98835	101058			25288818	25574387	<b>82763348</b>	<b>83048459</b>	285111
U.P.(E)	35273025	35688683	409	389	22693255	22362088	11480009	11362370					31311492	31938287	<b>100758190</b>	<b>101351817</b>	593627
U.P.(W)	16936781	17239660	261	256	19763003	19499892	5876920	5842598					21039748	21380480	<b>63616713</b>	<b>63962886</b>	346173
West Bengal	15394227	15356786	936	913	16944652	16968931	2551390	2550322					21423645	21875188	<b>56314850</b>	<b>56752140</b>	437290
<b>Total</b>	<b>352393776</b>	<b>352911013</b>	<b>9175</b>	<b>8871</b>	<b>283713597</b>	<b>281902977</b>	<b>118529647</b>	<b>117224648</b>	<b>98835</b>	<b>101058</b>	<b>3296021</b>	<b>3293256</b>	<b>422915086</b>	<b>427671426</b>	<b>1180956137</b>	<b>1183113249</b>	<b>2157112</b>
<b>Net Addition</b>		<b>517237</b>		<b>-304</b>		<b>-1810620</b>		<b>-1304999</b>				<b>2223</b>		<b>4756340</b>	0	<b>2157112</b>	
<b>Rural Subscribers</b>	168627301	173615546	0	0	149930551	144754607	37838495	37465532	0	0	45172	45153	179312359	181613634	535753878	537494472	1740594

**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 April-21 (%)</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>	96.33	57.63	90.13		109.48	78.95	<b>84.75</b>
<b>Assam</b>	99.95	46.26	91.19		-	75.84	<b>83.23</b>
<b>Bihar</b>	101.15	48.98	85.38		108.80	92.76	<b>92.33</b>
<b>Delhi</b>	88.36		74.72	12.19	78.76	64.38	<b>72.56</b>
<b>Gujarat</b>	95.05	51.63	91.01		78.76	76.12	<b>82.72</b>
<b>Haryana</b>	105.89	36.03	89.66		79.17	67.36	<b>75.98</b>
<b>Himachal Pradesh</b>	102.68	35.79	101.51		32.29	69.05	<b>71.95</b>
<b>J &amp; K</b>	95.92	55.42	85.32		-	77.83	<b>84.13</b>
<b>Karnataka</b>	93.43	51.36	86.71		80.19	74.59	<b>82.13</b>
<b>Kerala</b>	101.89	66.85	93.55		50.89	70.57	<b>83.13</b>
<b>Kolkata</b>	94.72	43.80	84.22		-	75.53	<b>79.08</b>
<b>Madhya Pradesh</b>	95.85	44.06	86.12		98.26	86.15	<b>84.72</b>
<b>Maharashtra</b>	99.87	58.78	96.17		115.53	83.14	<b>89.20</b>
<b>Mumbai</b>	74.40		75.17	32.41	103.25	54.20	<b>65.10</b>
<b>North East</b>	104.29	65.77	87.12		-	86.00	<b>91.90</b>
<b>Orissa</b>	100.84	59.98	91.67		24.61	76.32	<b>82.28</b>
<b>Punjab</b>	100.56	42.02	89.46		38.94	64.87	<b>77.65</b>
<b>Rajasthan</b>	99.50	45.44	91.66		49.66	74.93	<b>83.30</b>
<b>Tamil Nadu</b>	94.32	67.47	91.98		161.69	75.91	<b>84.61</b>
<b>U.P. (E)</b>	106.96	36.99	94.03		46.02	86.99	<b>89.97</b>
<b>U.P. (W)</b>	107.32	43.14	91.95		11.72	76.90	<b>86.60</b>
<b>West Bengal</b>	99.57	72.74	98.33		20.48	88.01	<b>93.54</b>
<b>Total</b>	<b>98.31</b>	<b>51.97</b>	<b>89.97</b>	<b>19.14</b>	<b>79.49</b>	<b>78.37</b>	<b>84.30</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
	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	Mar-21	Apr-21	
Andhra Pradesh	561771	555408			259061	269110	22340	21989	159486	158767			51180	56180	356143	381051	1409981	1442505	32524
Assam	82206	81482											3390	3420	47332	51096	132928	135998	3070
Bihar	130408	129656					20	19	7469	7486			1740	1740	99896	111406	239533	250307	10774
Delhi			1319143	1316203	1556389	1566713	34006	33359	137712	137638			86514	86309	260128	436986	3393892	3577208	183316
Gujarat	466470	445841			121065	124499	4567	4188	79722	79567			39767	39675	239304	244461	950895	938231	-12664
Haryana	127004	123560			31502	31932	2	2	35504	35126			360	360	120641	39178	315013	230158	-84855
Himachal Pradesh	75707	73834			0	0	3	3	1709	1673			30	30	11586	13224	89035	88764	-271
J & K	87435	83895			0	16872	0	0	0	0			0	0	80841	85964	168276	186731	18455
Karnataka	721542	719529			812574	796810	26395	25557	249104	249066			86462	88462	259694	272502	2155771	2151926	-3845
Kerala	1033144	1016991			67176	67596	5699	5466	18969	19011			8390	8420	73093	75358	1206471	1192842	-13629
Kolkata	316756	311204			153326	155743	7659	7651	46249	46330			14930	14990	135866	140990	674786	676908	2122
Madhya Pradesh	255109	246907			271690	272907	5	5	11220	11341			2360	2360	179532	188901	719916	722421	2505
Maharashtra	737346	739969			159620	165009	12530	12289	226181	224060			26998	27405	99663	103974	1262338	1272706	10368
Mumbai			1584446	1573218	403492	407584	64202	63108	488125	487181			120041	108195	396414	408398	3056720	3047684	-9036
North East	67455	66204											330	330	34738	38625	102523	105159	2636
Odisha	148145	145268					6	6	8116	8131			6540	6540	48756	54058	211563	214003	2440
Punjab	227116	220156			152738	156676	1995	1988	12381	12509	216428	212298	2175	2175	93576	100274	706409	706076	-333
Rajasthan	246388	240175			82247	86055	4576	4411	11746	11768			7510	9010	118267	127835	470734	479254	8520
Tamil Nadu	857270	847262			573648	580509	26289	25768	118390	118008			35300	35865	276314	293523	1887211	1900935	13724
U.P.(E)	162235	157182			81891	84389	23	23	7642	7818			20460	20460	139826	149995	412077	419867	7790
U.P.(W)	145503	142021			51871	55191	8	8	4450	4342			6760	6760	205746	148163	414338	356485	-57853
West Bengal	200429	200059					3	13	2350	2321			120	120	56357	62551	259259	265064	5805
<b>Total</b>	<b>6649439</b>	<b>6546603</b>	<b>2903589</b>	<b>2889421</b>	<b>4778290</b>	<b>4837595</b>	<b>210328</b>	<b>205853</b>	<b>1626525</b>	<b>1622143</b>	<b>216428</b>	<b>212298</b>	<b>521357</b>	<b>518806</b>	<b>3333713</b>	<b>3528513</b>	<b>20239669</b>	<b>20361232</b>	<b>121563</b>
<b>Net Addition</b>		<b>-102836</b>		<b>-14168</b>		<b>59305</b>		<b>-4475</b>		<b>-4382</b>		<b>-4130</b>		<b>-2551</b>		<b>194800</b>		<b>121563</b>	
<b>Rural Subscribers</b>	1575018	1548316	0	0	0	0	180	210	40146	39778	28107	27525	0	0	24292	28101	1667743	1643930	-23813



## 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.