



सत्यमेव जयते

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 24<sup>th</sup> September, 2020

(www.trai.gov.in)

**Highlights of Telecom Subscription Data as on 30<sup>th</sup> June, 2020**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Total Telephone Subscribers</b> (Million)	<b>1140.71</b>	<b>19.81</b>	<b>1160.52</b>
Net Addition in June, 2020 (Million)	-3.20	0.04	-3.16
Monthly Growth Rate	-0.28%	0.22%	-0.27%
<b>Urban Telephone Subscribers</b> (Million)	<b>619.11</b>	<b>17.72</b>	<b>636.83</b>
Net Addition in June, 2020 (Million)	-1.10	0.08	-1.02
Monthly Growth Rate	-0.18%	0.43%	-0.16%
<b>Rural Telephone Subscribers</b> (Million)	<b>521.60</b>	<b>2.09</b>	<b>523.69</b>
Net Addition in June, 2020 (Million)	-2.10	-0.03	-2.13
Monthly Growth Rate	-0.40%	-1.50%	-0.41%
<b>Overall Tele-density*(%)</b>	<b>84.38%</b>	<b>1.47%</b>	<b>85.85%</b>
Urban Tele-density*(%)	133.53%	3.82%	137.35%
Rural Tele-density*(%)	58.72%	0.24%	58.96%
Share of Urban Subscribers	54.27%	89.46%	54.87%
Share of Rural Subscribers	45.73%	10.54%	45.13%
<b>Broadband Subscribers</b> (Million)	<b>678.41</b>	<b>19.82</b>	<b>698.23</b>

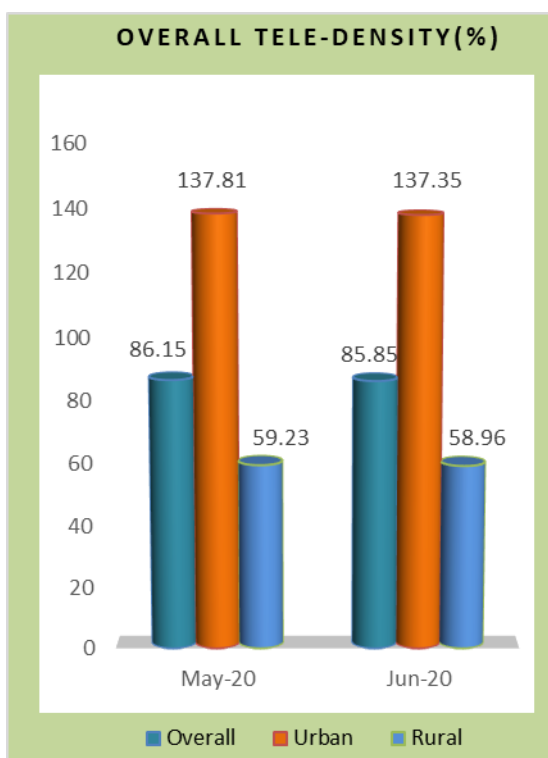
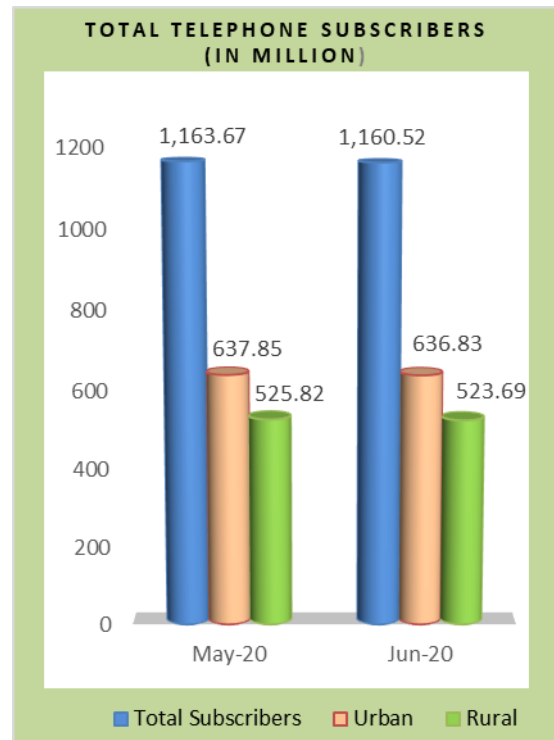
- ❖ In the month of June, 2020, 5.83 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 491.21 million at the end of May-20 to 497.04 million at the end of June-20, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in June, 2020 was 958 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', Ministry of Health & Family Welfare.
- # VLR is acronym of Visitor Location Register. The dates of peak VLR for various TSPs are different in different service areas.

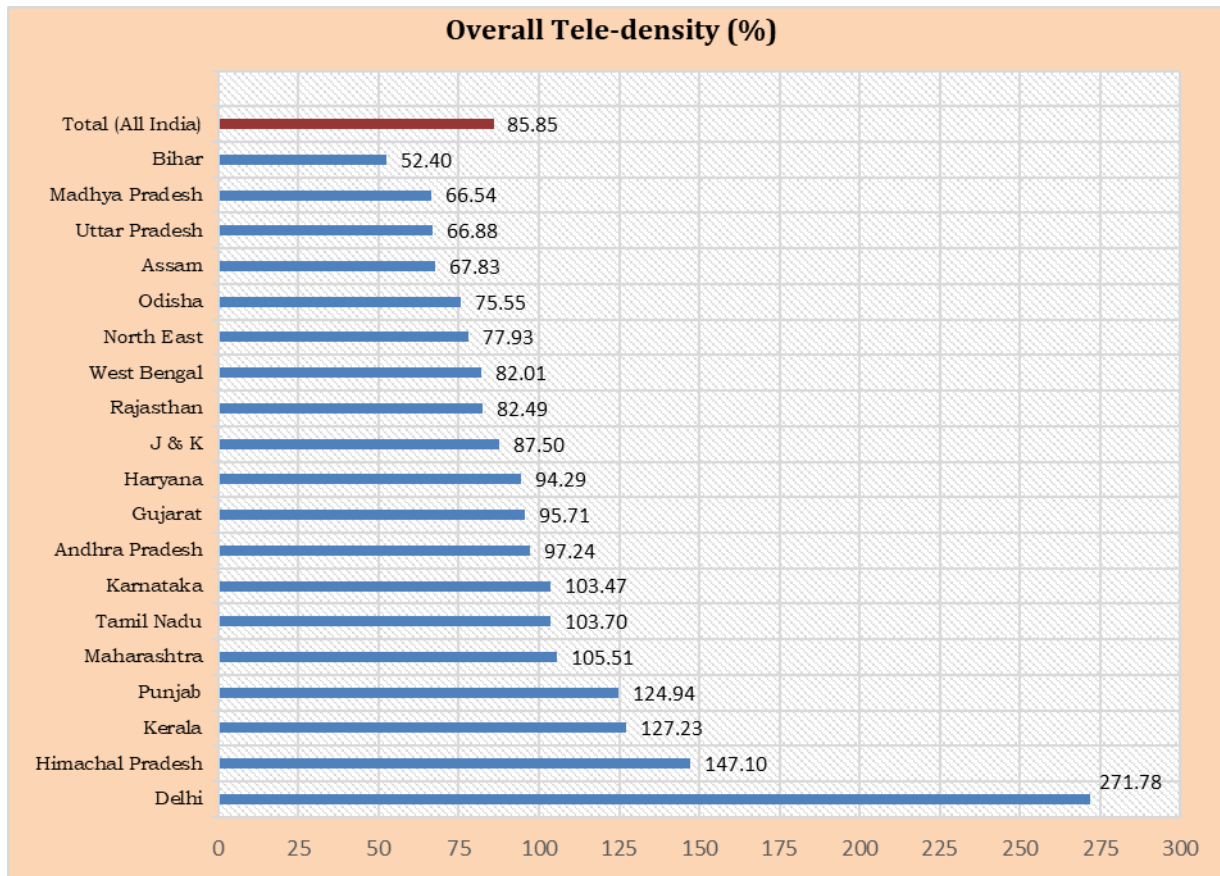
## I. Total Telephone Subscribers

- The number of telephone subscribers in India decreased from 1,163.67 million at the end of May-20 to 1,160.52 million at the end of June-20, thereby showing a monthly decline rate of 0.27%. Urban telephone subscription decreased from 637.85 million at the end of May-20 to 636.83 million at the end of June-20 and the rural subscription also decreased from 525.82 million to 523.69 million during the same period. The monthly decline rates of urban and rural telephone subscription were 0.16% and 0.41% respectively during the month of June-20.



- The overall Tele-density in India decreased from 86.15 at the end of May-20 to 85.85 at the end of June-20. The Urban Tele-density declined from 137.81 at the end of May-20 to 137.25 at the end of June-20. Rural Tele-density also decreased from 59.23 at the end of May-20 to 58.96 at the end of June-20. The share of rural and urban subscribers in total number of telephone subscribers at the end of June-20 was 45.13% and 54.87% respectively.

## Overall Tele-density (Circle/State Wise) – As on 30<sup>th</sup> June 2020



- 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 June-20. Delhi service area has maximum tele-density of 271.78 and the Bihar service area has minimum tele-density of 52.40 at the end of June-20.

### 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, Ministry of Health & Family Welfare”.
- 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, Tamil Nadu includes Chennai 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 June, 2020

Circle Category	Net additions in the month of June, 2020		Telephone Subscriber base as on 30 <sup>th</sup> June, 2020	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	25,313	-24,53,869	76,63,409	38,91,81,986
Circle B	-3,306	-1,59,999	44,15,895	46,31,27,236
Circle C	-1,600	-3,082	8,24,921	17,45,34,916
Metro	23,524	-5,82,789	69,06,327	11,38,61,698
<b>All India</b>	<b>43,931</b>	<b>-31,99,739</b>	<b>1,98,10,552</b>	<b>1,14,07,05,836</b>

### Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of June, 2020

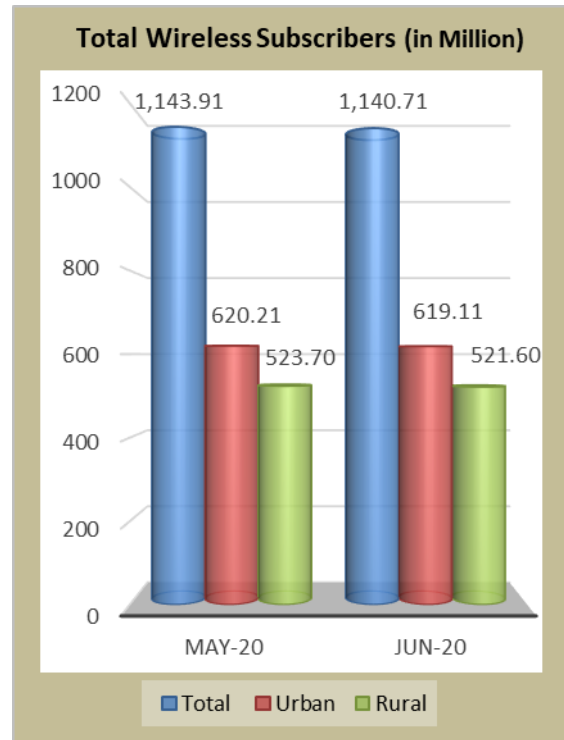
Circle Category	Monthly growth rate (%) (May-20 to June-20)		Yearly growth rate (%) (June-19 to June-20)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	0.33%	-0.63%	-6.50%	-2.41%
Circle B	-0.07%	-0.03%	-15.34%	-2.12%
Circle C	-0.19%	-0.002%	-4.82%	-0.79%
Metro	0.34%	-0.51%	0.24%	-3.19%
<b>All India</b>	<b>0.22%</b>	<b>-0.28%</b>	<b>-6.42%</b>	<b>-2.12%</b>

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

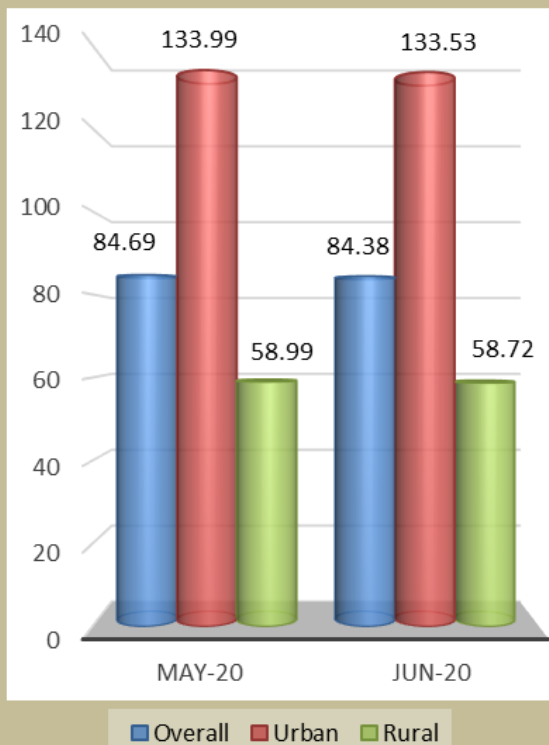
- As can be seen in the above tables, in wireless segment, on monthly and yearly basis, Circles of all Categories showed declining rate in their subscribers during the month of June-20.
- In Wireline segment, Circle A & Metro Category showed monthly growth and Circles B & Circle C showed decline rate in their subscribers during the month of June-20. On yearly basis, only Metro Circle showed growth in their number of wireline subscribers.

## Wireless Subscribers

- Total wireless subscribers (2G, 3G & 4G) decreased from 1,143.91 million at the end of May-20 to 1,140.71 million at the end of June-20, thereby registering a monthly decline rate of 0.28%. Wireless subscription in urban areas decreased from 620.21 million at the end of May-20 to 619.11 million at the end of June-20 and wireless subscription in rural areas also decreased from 523.70 million to 521.60 during the same period. Monthly decline rates of urban and rural wireless subscription were 0.18% and 0.40% respectively.



## Wireless Tele-density (%)

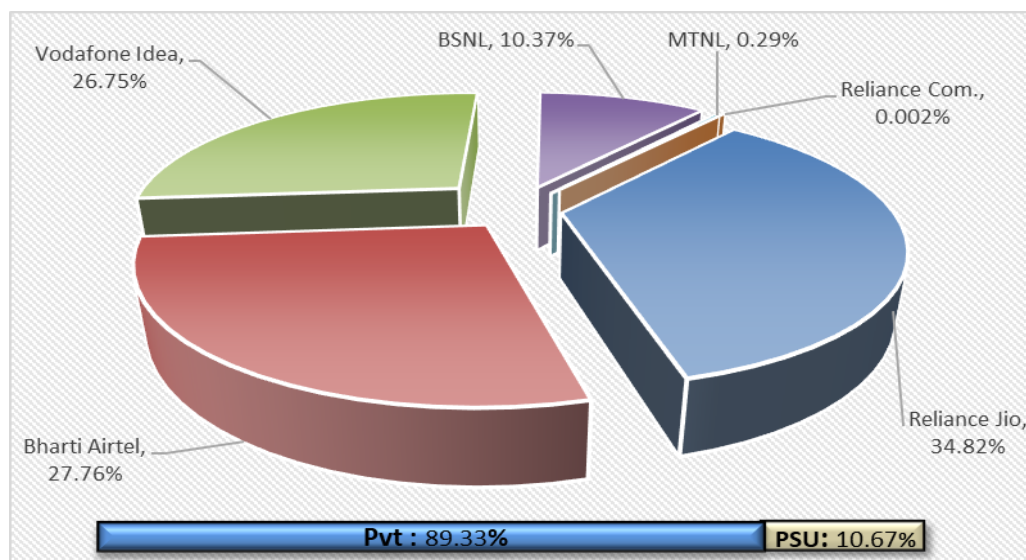


- The Wireless Tele-density in India decreased from 84.69 at the end of May-20 to 84.38 at the end of June-20. The Urban Wireless Tele-density declined from 133.99 at the end of May-20 to 133.53 at the end of June-20 and Rural Tele-density also decreased from 58.99 to 58.72 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.27% and 45.73% respectively at the end of June-20. Detailed statistics of wireless subscriber base is available at

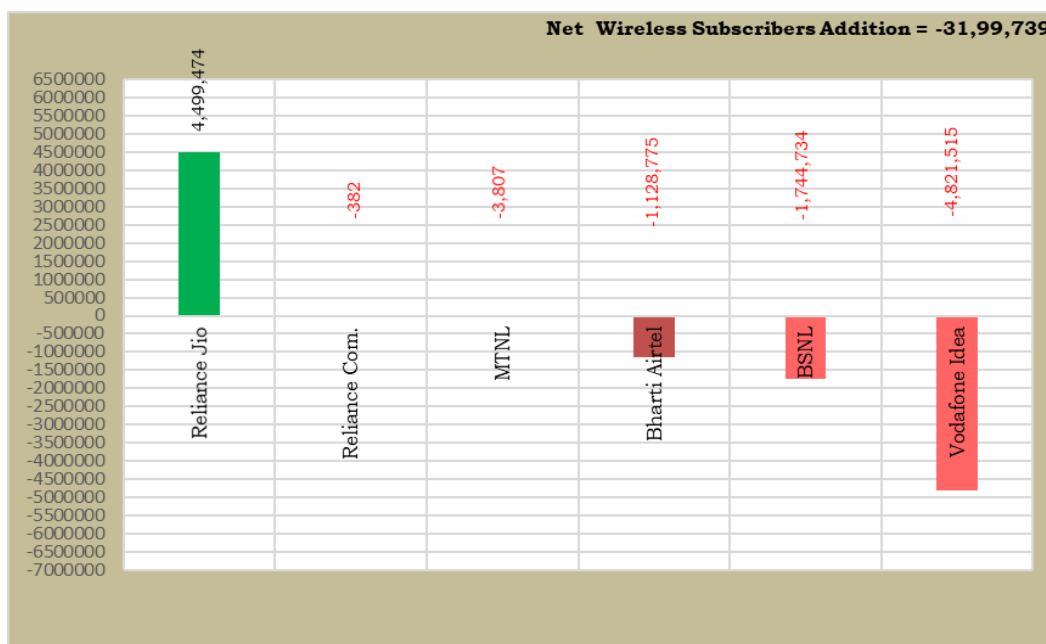
### Annexure-I.

- As on 30<sup>th</sup> June, 2020, the private access service providers held 89.33% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 10.67%.
- 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, 2020**



**Net Additions/declines in Wireless Subscribers of Access Service Providers in the month of June 2020**



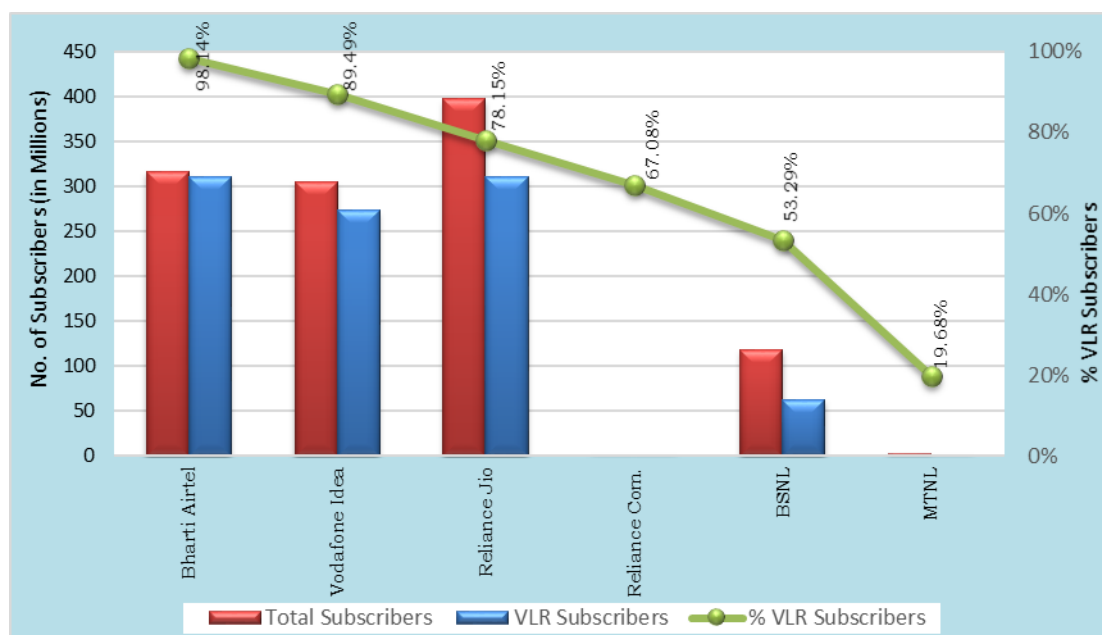
- Note:**
1. M/s Bharti Airtel Ltd has reported the wireless subscribers including the subscribers of M/s Tata Teleservices Ltd.
  2. Virtual Network Operator (VNO) of BSNL has started reporting of its subscribers from the month of October, 2018 and the same has been included in the subscriber base of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



### III. Active Wireless Subscribers (VLR Data)

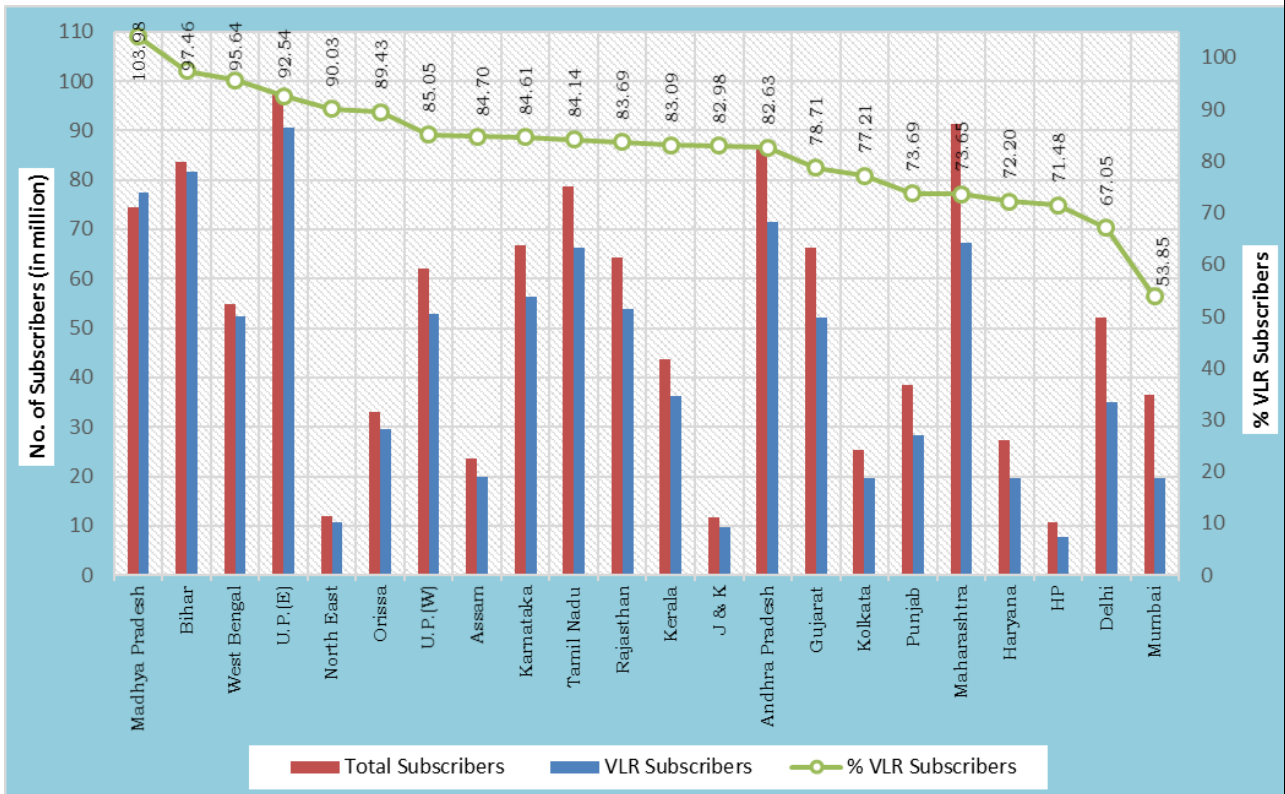
- Out of the total wireless subscribers (1,140.71 million), 958 million wireless subscribers were active on the date of peak VLR in the month of June-20. The proportion of active wireless subscribers was approximately 83.98% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of June-20 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 June, 2020**



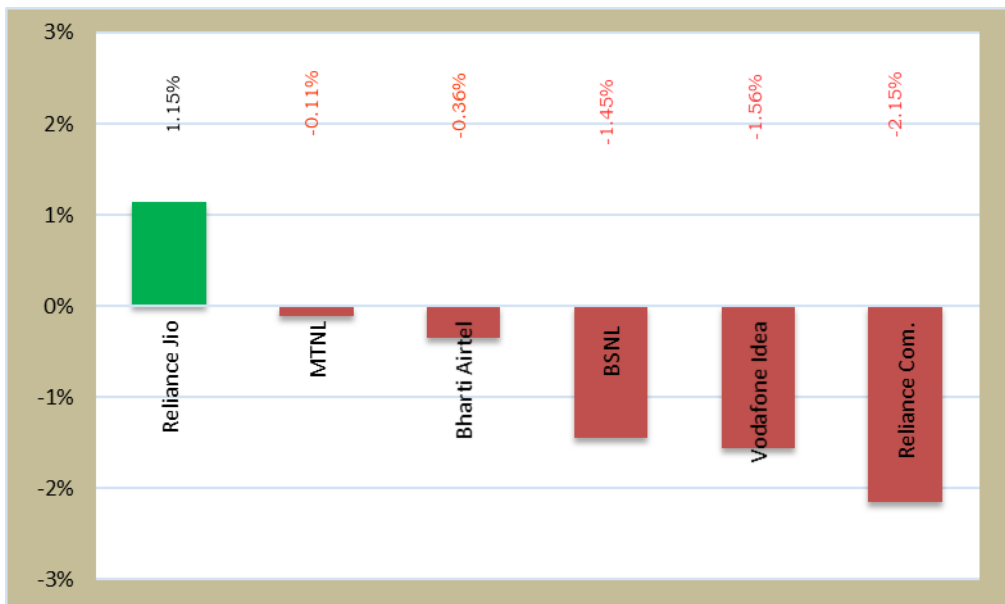
- Bharti Airtel has the maximum proportion (98.14%) of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of June-20 and MTNL has the minimum proportion of VLR (19.68%) of its HLR during the same period.

### Service Area wise percentage of VLR Subscribers in the Month of June, 2020



### V. Growth in Wireless Subscribers

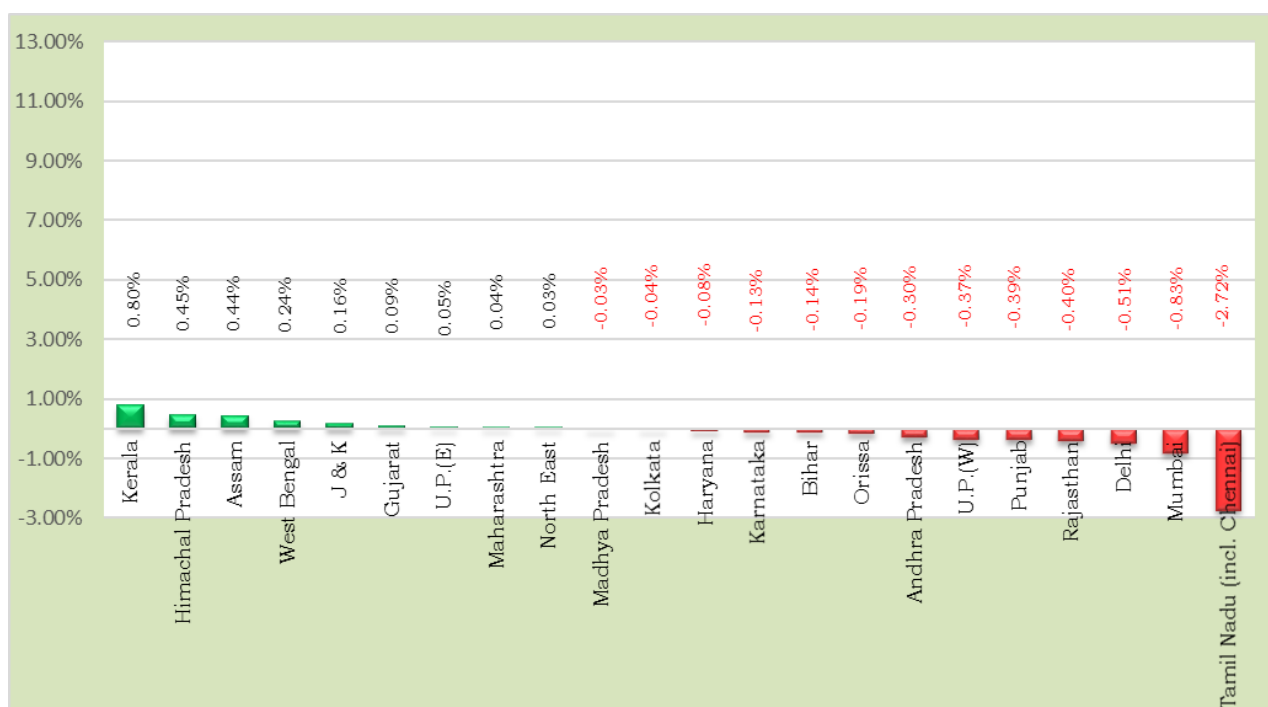
#### Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the month of June, 2020



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



### Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of June, 2020



- Most of the service areas showed decline except Kerala, Himachal Pradesh, Assam, West Bengal, Jammu & Kashmir, Gujarat U.P.(E), Maharashtra and North East in their wireless subscribers

during the month of June-20. Kerala service area showed maximum growth of 0.80% in its wireless subscriber base during the month.

### 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 June-20, a total of 5.83 million requests were received for MNP. Out of total 5.83 million new requests, 2.99 million requests received from Zone-I and 2.84 million requests received from Zone-II. The cumulative MNP requests increased from 491.21

million at the end of May-20 to 497.04 million at the end of June-20, 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 38.75 million) followed by

Rajasthan (about 37.86 million) service area.

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 44.19 million) followed by Andhra Pradesh (about 41.50 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-20</b>	<b>June-20</b>		<b>May-20</b>	<b>June-20</b>
Delhi	25.14	25.33	Andhra Pradesh	41.09	41.50
Gujarat	32.78	33.20	Assam	3.72	3.76
Haryana	17.62	17.78	Bihar	20.47	20.84
Himachal Pradesh	2.40	2.43	Karnataka	43.86	44.19
Jammu & Kashmir	1.18	1.19	Kerala	12.72	13.03
Maharashtra	38.11	38.75	Kolkata	11.45	11.55
Mumbai	24.07	24.13	Madhya Pradesh	32.89	33.37
Punjab	18.91	19.09	North East	1.45	1.46
Rajasthan	37.57	37.86	Orissa	9.77	9.87
U.P.(East)	28.48	29.06	Tamil Nadu	40.57	40.94
U.P.(West)	22.86	23.30	West Bengal	24.09	24.42
<b>Total</b>	<b>249.14</b>	<b>252.12</b>	<b>Total</b>	<b>242.07</b>	<b>244.92</b>
<b>Total (Zone-1 + Zone-2)</b>				<b>491.21</b>	<b>497.04</b>
<b>Net Addition (June, 2020)</b>			<b>5.83 million</b>		

## VII. Wireline Subscribers

- Wireline subscribers increased from 19.77 million at the end of May-20 to 19.81 million at the end of June-20. Net addition in the

wireline subscriber base was 0.04 million with a monthly growth rate of 0.22%. The share of urban and rural subscribers in total wireline

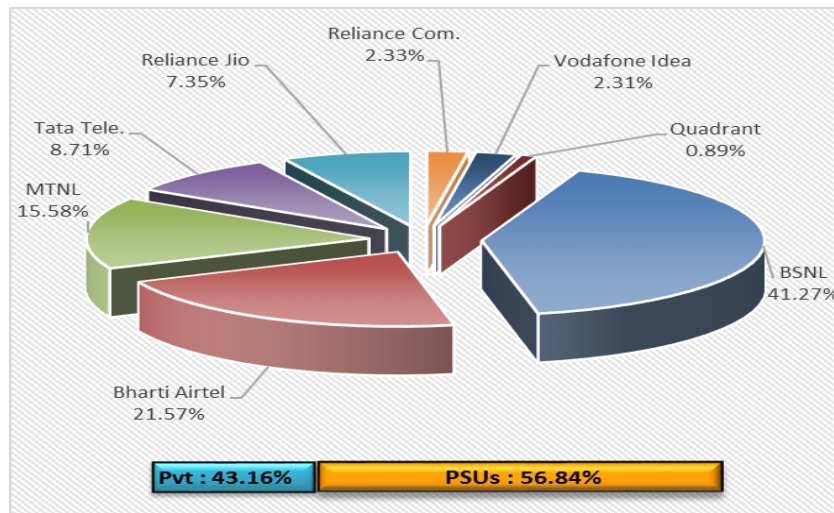
subscribers were 89.46% and 10.54% respectively at the end of June-20.

- The Overall Wireline Tele-density increased from 1.46 at the end of May-20 to 1.47 at the end of June-20. Urban and Rural Wireline Tele-density were 3.82

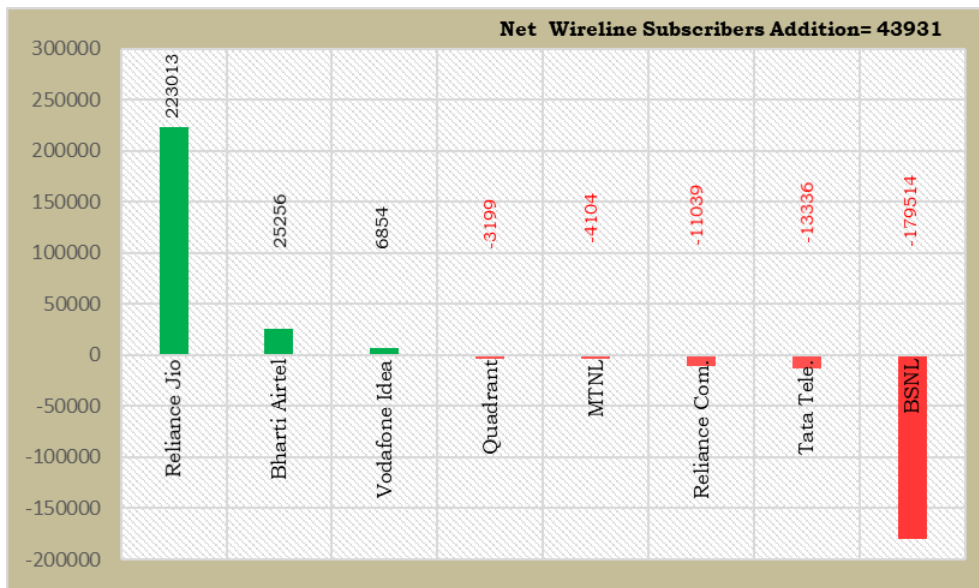
and 0.24 respectively during the same period.

- BSNL and MTNL, the two PSU access service providers, held 56.84% of the wireline market share as on 30<sup>th</sup> June, 2020. 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> June, 2020**



**Access Service Provider-wise Net Additions in Wireline Subscribers during the month of June, 2020**



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

- As per the reports received from 342 operators in the month of June, 2020, the number of broadband subscribers increased from 683.77 million at the end of May-20 to 698.23 million at the end of June-20 with a monthly growth rate of 2.11%. 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, 2020

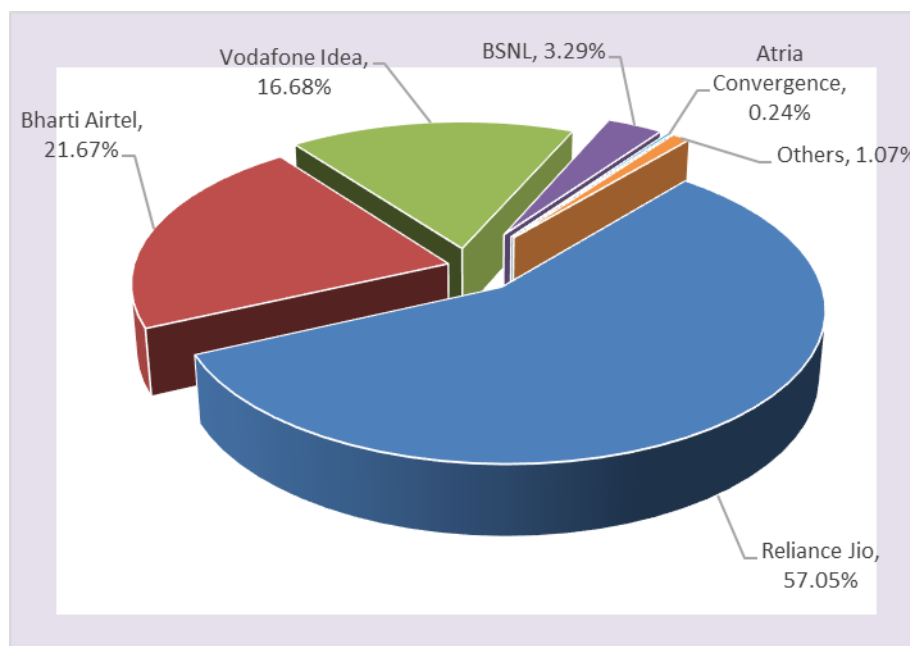
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of June-20
	As on 31 <sup>st</sup> May, 2020	As on 30 <sup>th</sup> June, 2020	
Wired subscribers	19.38	19.82	2.29%
Mobile devices users (Phones and dongles)	663.78	677.79	2.11%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.61	0.63	2.23%
<b>Total</b>	<b>683.77</b>	<b>698.23</b>	<b>2.11%</b>

- Top five service providers constituted 98.93% market share of the total broadband subscribers at the end of June-20. These service providers were Reliance Jio Infocomm Ltd (398.31 million), Bharti Airtel (151.30 million), Vodafone Idea (116.45 million), BSNL (23 million) and Atria Convergence (1.68 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 30.06.2020**



- As on 30<sup>th</sup> June, 2020, the top five Wired Broadband Service providers were BSNL (7.90 million), Bharti Airtel (2.47 million), Atria Convergence Technologies (1.68 million), Reliance Jio Infocomm Ltd (1.06 million) and Hathway Cable & Datacom (0.99 million).
- As on 30<sup>th</sup> June, 2020, the top five Wireless Broadband Service providers were Reliance Jio Infocom Ltd (397.25 million), Bharti Airtel (148.84 million), Vodafone Idea (116.44 million), BSNL (15.10 million) and MTNL (0.16 million).

Contact details in case of any clarification:

**Shri S. K. Mishra, Pr. Advisor (F&EA),**  
 Telecom Regulatory Authority of India  
 Mahanagar Doorsanchar Bhawan  
 Jawahar Lal Nehru Marg,  
 New Delhi – 110002,  
 Ph: 011-23221856  
 Fax: 011-23235249  
 E-mail: [skmishra.tra@nic.in](mailto:skmishra.tra@nic.in)

Authorized to issue:

(S. K. Mishra)  
 Pr. Advisor (F&EA)

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
	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	
Andhra Pradesh	28582118	28513977	2212	2175	17256983	16948499	9886981	9855027					30887378	31033822	86615672	86353500	-262172
Assam	8215866	8285759	0	0	3989780	3892299	2830191	2843947					8349301	8465436	23385138	23487441	102303
Bihar	34018344	33693996	381	360	13971724	13652772	5661488	5701746					30133590	30622243	83785527	83671117	-114410
Delhi	15169741	15048030	1789	1751	16616523	16417191	0	0			2180443	2179026	18332935	18388992	52301431	52034990	-266441
Gujarat	9950419	9920925	604	612	26169015	25892692	6105800	6106266					23952073	24316715	66177911	66237210	59299
Haryana	4417778	4498706	136	130	8500081	8361858	5000882	5013844					9359933	9381819	27278810	27256357	-22453
Himachal Pradesh	3197077	3211925	104	103	811814	788330	2995104	2997445					3684668	3739380	10688767	10737183	48416
J & K	5762957	5720475	0	0	609095	588643	1269166	1259303					4128865	4220936	11770083	11789357	19274
Karnataka	27969035	27876260	1540	1601	10879575	10825486	7268263	7274657					20652189	20702665	66770602	66680669	-89933
Kerala	5483225	5622201	633	690	17626920	17575190	10944716	10949638					9188896	9441962	43244390	43589681	345291
Kolkata	5933434	5836094	36	33	7135138	7013690	2127898	2169503					10170852	10338362	25367358	25357682	-9676
Madhya Pradesh	13588300	13315433	751	728	23451962	23058064	6395871	6376004					31148199	31814555	74585083	74564784	-20299
Maharashtra	15564759	15598186	1046	912	36570907	35920408	7077504	7022942					32034054	32741143	91248270	91283591	35321
Mumbai	9449530	9205994	2386	2318	12080028	11937699	0	0			1178084	1175694	14065670	14147321	36775698	36469026	-306672
North East	5105383	5086549	0	0	1671945	1625330	1392938	1402201					3703915	3763129	11874181	11877209	3028
Orissa	10987306	10770115	364	379	2971272	2851806	6300428	6354332					12774932	12995977	33034302	32972609	-61693
Punjab	9960135	9926586	316	307	9028866	8838348	5782584	5817451					13904006	13940730	38675907	38523422	-152485
Rajasthan	20515565	20458171	368	385	13183993	12928571	6298309	6312472					24633165	24671680	64631400	64371279	-260121
Tamil Nadu (incl. Chennai)	24566667	24498103	3130	3132	19644967	19408811	12532225	10597025	92107	92161			23984304	24027784	80823400	78627016	-2196384
U.P.(E)	30697332	30874068	862	687	26641385	26206694	11710173	11717082					28839335	29138887	97889087	97937418	48331
U.P.(W)	13773902	13934826	300	283	22594917	22054123	5990127	6036679					19947485	20050305	62306731	62076216	-230515
West Bengal	14891386	14775105	811	801	18518501	18317372	2390944	2409240					18874185	19305561	54675827	54808079	132252
<b>Total</b>	<b>317800259</b>	<b>316671484</b>	<b>17769</b>	<b>17387</b>	<b>309925391</b>	<b>305103876</b>	<b>119961592</b>	<b>118216804</b>	<b>92107</b>	<b>92161</b>	<b>3358527</b>	<b>3354720</b>	<b>392749930</b>	<b>397249404</b>	<b>1143905575</b>	<b>1140705836</b>	<b>-3199739</b>
<b>Net Addition</b>		<b>-1128775</b>		<b>-382</b>		<b>-4821515</b>		<b>-1744788</b>		<b>54</b>		<b>-3807</b>		<b>4499474</b>	<b>0</b>	<b>-3199739</b>	
<b>Rural Subscribers</b>	<b>153157053</b>	<b>151088155</b>	<b>0</b>	<b>0</b>	<b>168417334</b>	<b>166021253</b>	<b>38174454</b>	<b>38093493</b>	<b>0</b>	<b>0</b>	<b>45571</b>	<b>45542</b>	<b>163904417</b>	<b>166349991</b>	<b>523698829</b>	<b>521598434</b>	<b>-2100395</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.



Proportion of VLR on the date of Peak VLR in the month of June-20 (%)							Annexure-II
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	97.30	62.10	90.34		56.09	71.45	<b>82.63</b>
Assam	98.25	50.87	86.63		-	81.91	<b>84.70</b>
Bihar	104.25	48.40	94.41		97.14	100.47	<b>97.46</b>
Delhi	77.37		69.81	10.81	30.07	62.79	<b>67.05</b>
Gujarat	91.62	47.65	89.47		30.07	69.77	<b>78.71</b>
Haryana	102.37	36.03	89.57		50.00	61.57	<b>72.20</b>
Himachal Pradesh	102.07	37.78	92.59		33.01	67.76	<b>71.48</b>
J & K	96.38	57.67	81.21		-	72.62	<b>82.98</b>
Karnataka	95.98	54.88	88.19		88.57	77.85	<b>84.61</b>
Kerala	98.63	66.36	94.56		34.35	71.89	<b>83.09</b>
Kolkata	91.19	47.10	88.64		-	67.89	<b>77.21</b>
Madhya Pradesh	100.99	47.44	144.08		46.98	87.50	<b>103.98</b>
Maharashtra	98.83	55.77	56.06		53.73	84.78	<b>73.65</b>
Mumbai	59.74		62.57	36.14	128.56	44.11	<b>53.85</b>
North East	101.16	65.85	84.60		-	86.35	<b>90.03</b>
Orissa	105.98	63.45	92.31		16.89	87.78	<b>89.43</b>
Punjab	97.90	40.18	89.44		20.52	60.45	<b>73.69</b>
Rajasthan	100.31	44.84	92.81		38.96	75.06	<b>83.69</b>
Tamil Nadu (incl. Chennai)	94.62	74.44	91.33		72.35	71.96	<b>84.14</b>
U.P. (E)	110.02	37.95	96.67		22.27	92.28	<b>92.54</b>
U.P. (W)	104.57	41.43	91.84		7.42	77.16	<b>85.05</b>
West Bengal	102.44	78.70	96.60		24.72	91.63	<b>95.64</b>
<b>Total</b>	<b>98.14</b>	<b>53.29</b>	<b>89.49</b>	<b>19.68</b>	<b>67.08</b>	<b>78.15</b>	<b>83.98</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		
	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20	May-20	Jun-20			
Andhra Pradesh	722984	710649			212608	217071	27480	26517	164535	161986			51855	51915	119599	142988	1299061	1311126	12065		
Assam	93155	91870											3450	3450	14945	17159	111550	112479	929		
Bihar	143398	140696					1940	1937	8204	8124			1800	1830	20740	25121	176082	177708	1626		
Delhi	0	0	1393468	1391811	1431467	1416973	63894	62940	145007	144233			74675	75335	92670	97012	3201181	3188304	-12877		
Gujarat	588262	579193			99301	101627	9000	8597	82445	82095			31902	32022	137626	154695	948536	958229	9693		
Haryana	180077	174789			23782	24810	1390	1314	37826	38349			360	360	29379	49461	272814	289083	16269		
Himachal Pradesh	91952	89491			0	0	954	953	1915	1820			30	30	942	1352	95793	93646	-2147		
J & K	114791	111452			3263	4325	0	0	0	0			0	0	19923	25251	137977	141028	3051		
Karnataka	837394	823344			765799	776627	93267	92714	268163	267925			80327	80357	68778	84124	2113728	2125091	11363		
Kerala	1396849	1379954			59490	60252	9584	9487	19502	19377			5880	6090	17282	21465	1508587	1496625	-11962		
Kolkata	385624	382620			130328	133050	32811	32293	48574	48127			10700	10700	39211	49137	647248	655927	8679		
Madhya Pradesh	307294	303347			232252	234566	4397	4368	12903	12452			2130	2130	56989	64190	615965	621053	5088		
Maharashtra	847705	838078			112289	116173	34372	30889	252046	249175			29113	29223	39536	44952	1315061	1308490	-6571		
Mumbai	0	0	1696631	1694184	370950	373704	122394	119526	529243	524705			86962	86886	228194	263091	3034374	3062096	27722		
North East	88758	86189											270	270	8061	10107	97089	96566	-523		
Orissa	181386	174878					1591	1590	8760	8747			6030	6060	10263	12219	208030	203494	-4536		
Punjab	305342	294817			130338	133009	9088	9023	11881	11773	180238	177039	3180	3180	43529	48715	683596	677556	-6040		
Rajasthan	344714	328940			55817	57600	12135	11802	11339	11303			6780	11780	43085	50095	473870	471520	-2350		
Tamil Nadu (incl. Chennai)	1120078	1102690			531540	531136	41843	41223	121375	120655			36105	36755	110769	128014	1961710	1960473	-1237		
U.P.(E)	251162	193146			61662	63375	2711	2701	7938	7575			13870	13900	45000	51960	382343	332657	-49686		
U.P.(W)	193274	186171			26291	28135	2071	2040	4758	4662			5460	5460	75215	101403	307069	327871	20802		
West Bengal	160327	182698					1540	1509	2377	2372			120	120	10593	12831	174957	199530	24573		
<b>Total</b>	<b>8354526</b>	<b>8175012</b>	<b>3090099</b>	<b>3085995</b>	<b>4247177</b>	<b>4272433</b>	<b>472462</b>	<b>461423</b>	<b>1738791</b>	<b>1725455</b>	<b>180238</b>	<b>177039</b>	<b>450999</b>	<b>457853</b>	<b>1232329</b>	<b>1455342</b>	<b>19766621</b>	<b>19810552</b>	<b>43931</b>		
<b>Net Addition</b>		<b>-179514</b>		<b>-4104</b>		<b>25256</b>		<b>-11039</b>		<b>-13336</b>		<b>-3199</b>		<b>6854</b>		<b>223013</b>		43931			
<b>Rural Subscribers</b>	2035124	2003884	0	0	0	0	845	810	44657	44147	35170	34626	0	0	3387	4019	2119183	2087486	<b>-31697</b>		

## 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.