

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 23<sup>rd</sup> March, 2018

(www.traigov.in)

**Highlights of Telecom Subscription Data as on 31<sup>st</sup> January, 2018**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Total Telephone Subscribers</b> (Million)	<b>1151.94</b>	<b>23.07</b>	<b>1175.01</b>
Net Addition in January, 2018 (Million)	-15.50	-0.17	-15.66
Monthly Growth Rate	-1.33%	-0.71%	-1.32%
<b>Urban Telephone Subscribers</b> (Million)	<b>652.85</b>	<b>19.69</b>	<b>672.54</b>
Net Addition in January, 2018 (Million)	-15.59	-0.12	-15.71
Monthly Growth Rate	-2.33%	-0.63%	-2.28%
<b>Rural Telephone Subscribers</b> (Million)	<b>499.09</b>	<b>3.38</b>	<b>502.47</b>
Net Addition in January, 2018 (Million)	0.09	-0.04	0.05
Monthly Growth Rate	0.02%	-1.20%	0.01%
<b>Overall Tele-density*(%)</b>	<b>88.83</b>	<b>1.78</b>	<b>90.61</b>
Urban Tele-density*(%)	159.39	4.81	164.19
Rural Tele-density*(%)	56.25	0.38	56.63
Share of Urban Subscribers	56.67%	85.35%	57.24%
Share of Rural Subscribers	43.33%	14.65%	42.76%
<b>Broadband Subscribers</b> (Million)	<b>360.23</b>	<b>17.87</b>	<b>378.10</b>

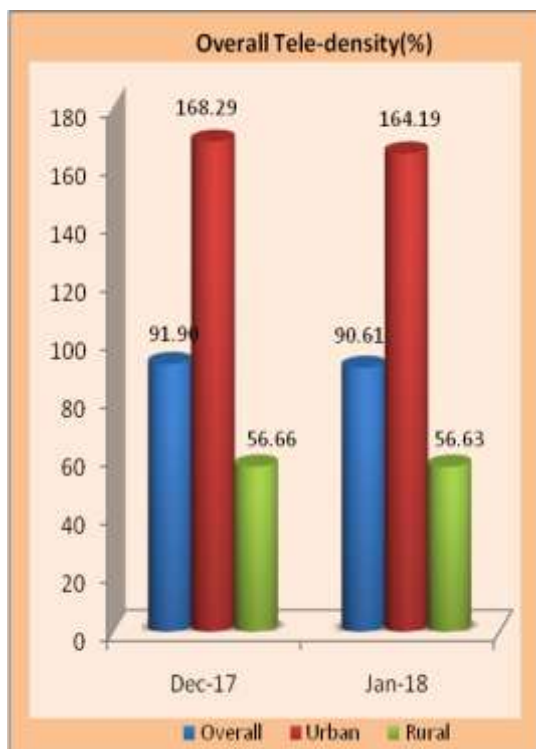
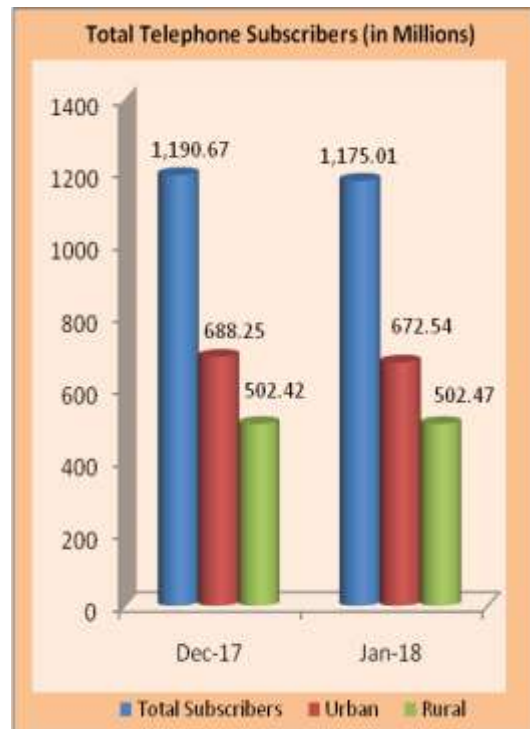
- ❖ In the month of January, 2018, 6.18 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 338.41 million at the end of Dec-17 to 344.59 million at the end of Jan-18, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in January, 2018 was 1,012.57 million.

**Note:**

- Information in this Press Release is based on the data provided by the Service Providers
- \* Based on the population projections from Census data published by the Office of Registrar General & Census Commissioner of India.
- # VLR is acronym of Visitor Location Register. The dates of peak VLR for various TSPs are different in different service areas.

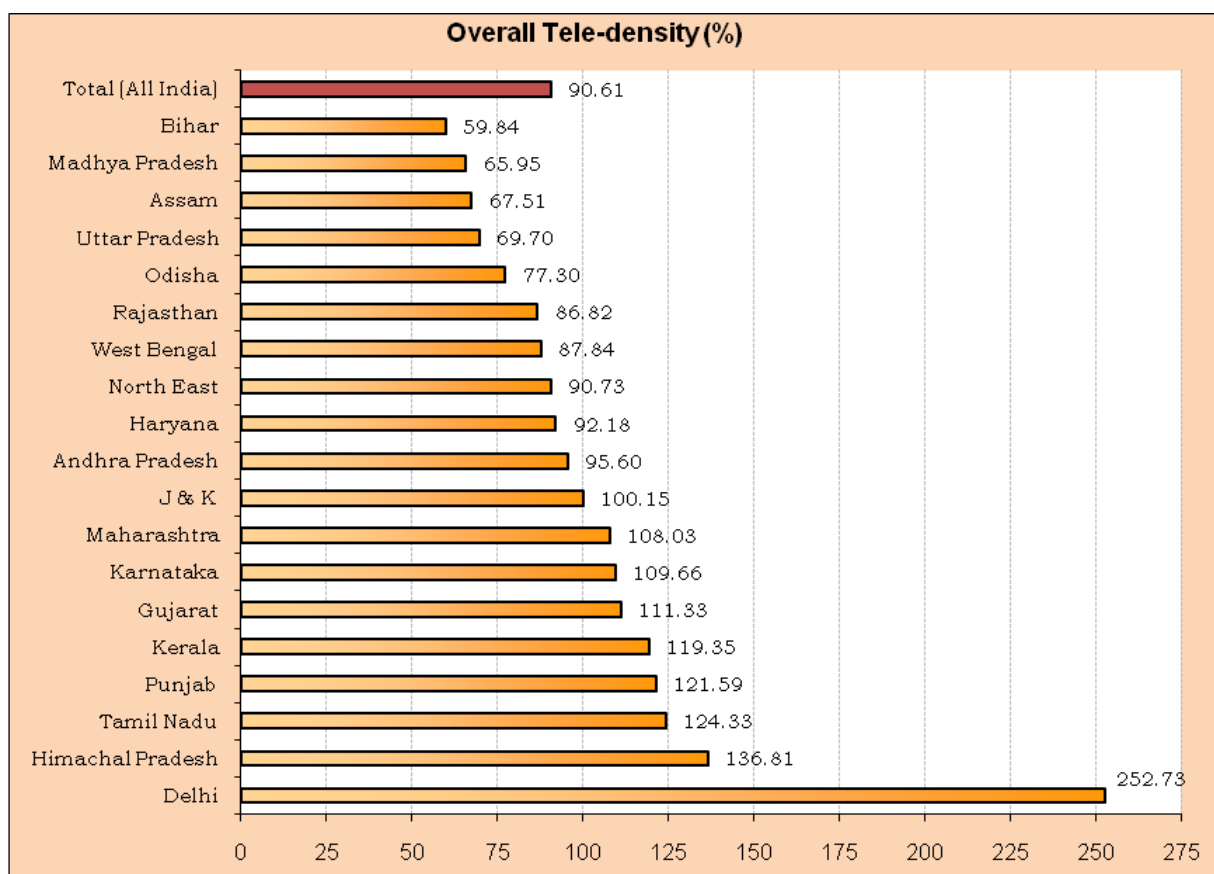
## I. Total Telephone Subscribers

- The number of telephone subscribers in India declined from 1,190.67 million at the end of Dec-17 to 1,175.01 million at the end of Jan-18, thereby showing a monthly decline rate of 1.32%. The urban subscription declined from 688.25 million at the end of Dec-17 to 672.54 million at the end of Jan-18, however the rural subscription slightly increased from 502.42 million to 502.47 million during the same period. The monthly growth rates of urban and rural subscription were -2.28% and 0.01% respectively during the month of Jan-18.



- The overall Tele-density in India declined from 91.90 at the end of Dec-17 to 90.61 at the end of Jan-18. The Urban Tele-density declined from 168.29 at the end of Dec-17 to 164.19 at the end of Jan-18, and the Rural Tele-density also declined from 56.66 at the end of Dec-17 to 56.63 at the end of Mar-18. The share of urban and rural subscribers in total number of telephone subscribers at the end of Jan-18 was 57.24% and 42.76% respectively.

## Overall Tele-density (Circle/State Wise) – As on 31<sup>st</sup> January, 2018



### Notes:

1. Population data/projections are available state wise only.
2. Tele-density figures are derived from the telephone subscriber data provided by the access service providers and the projections of population published by the Office of the Registrar General & Census Commissioner, India.
3. 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).
4. Data/information for West Bengal includes Kolkata, Maharashtra includes Mumbai, Tamil Nadu includes Chennai and Uttar Pradesh includes UPE & UPW service area(s).
5. 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 January, 2018

Circle Category	Net additions in the month of January, 2018		Telephone Subscriber base as on 31 <sup>st</sup> January, 2018	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-82,853	287,623	9,130,677	402,807,909
Circle B	-60,092	-7,050,246	5,851,857	457,501,011
Circle C	-1,815	-3,234,808	1,041,705	174,184,785
Metro	-20,647	-5,501,792	7,045,041	117,442,717
<b>All India</b>	<b>-165,407</b>	<b>-15,499,223</b>	<b>23,069,280</b>	<b>1,151,936,422</b>

### Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of January, 2018

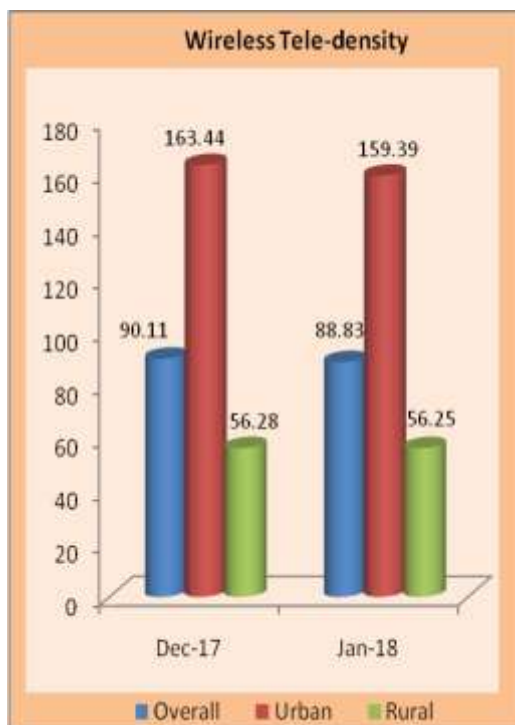
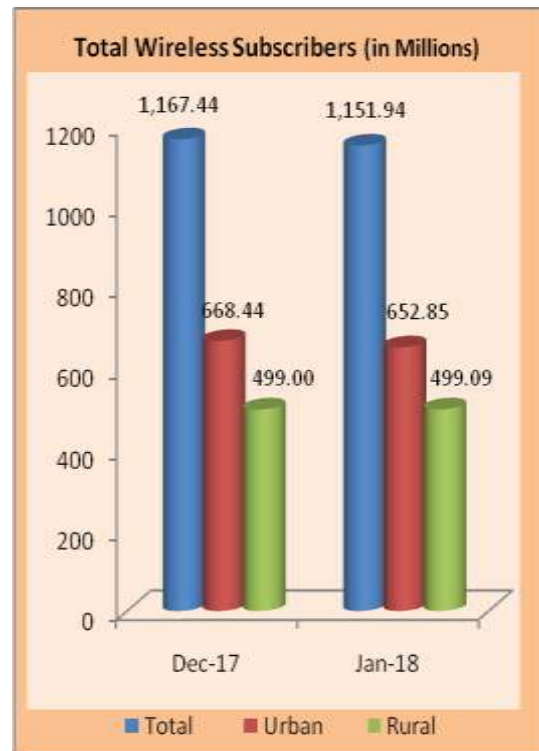
Circle Category	Monthly growth rate (%) (Dec-17 to Jan-18)		Yearly growth rate (%) (Jan-17 to Jan-18)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-0.90	0.07	-4.81	0.01
Circle B	-1.02	-1.52	-9.59	-0.28
Circle C	-0.17	-1.82	-10.62	1.28
Metro	-0.29	-4.48	-0.96	0.46
<b>All India</b>	<b>-0.71</b>	<b>-1.33</b>	<b>-5.23</b>	<b>0.13</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, only Circles of Category-A showed positive monthly growth in subscriber base during the month of Jan-18. Circles of all other categories showed negative monthly growth rate in wireless subscribers during the month.
- In Wireline segment, circles of all categories showed decline in their subscriber base during the month of Jan-18. Circles of Category-A showed maximum monthly net decline in number of wireline subscribers during the month.

### III. Wireless Subscribers

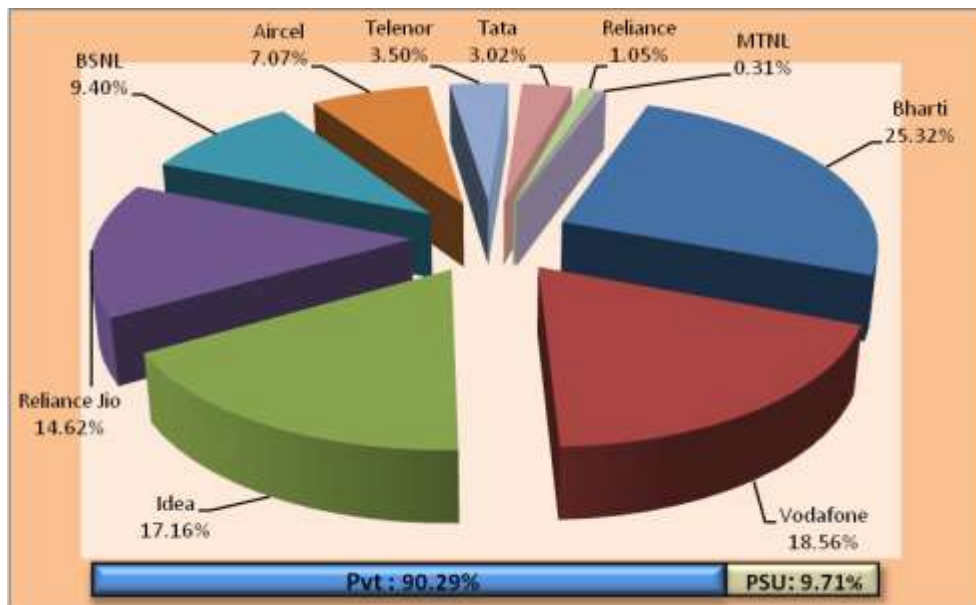
- Total wireless subscribers (GSM, CDMA & LTE) declined from 1,167.44 million at the end of Dec-17 to 1,151.94 million at the end of Jan-18, thereby registering a monthly decline rate of 1.33%. The Wireless subscription in urban areas declined from 668.44 million at the end of Dec-17 to 652.85 million at the end of Jan-18, however wireless subscriptions in rural areas slightly increased from 499.00 million to 499.09 million during the month. The monthly growth rates of urban and rural wireless subscription were -2.33% and 0.02% respectively.



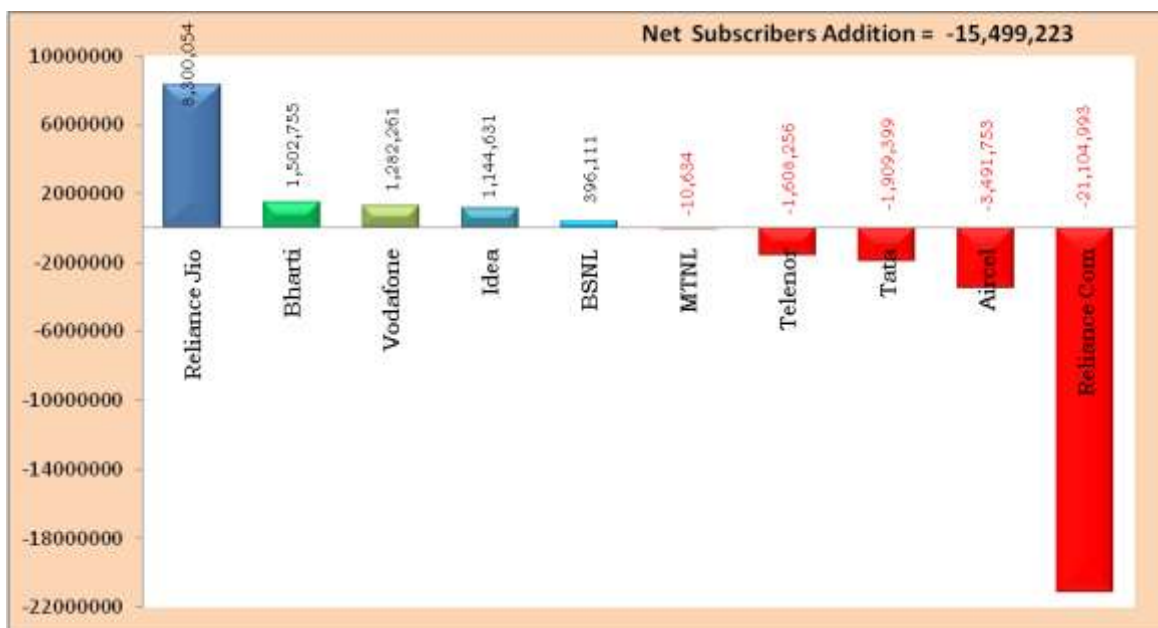
- The Wireless Tele-density in India declined from 90.11 at the end of Dec-17 to 88.83 at the end of Jan-18. The Urban Wireless Tele-density declined from 163.44 at the end of Dec-17 to 159.39 at the end of Jan-18, and Rural Wireless Tele-density also declined from 56.28 to 56.25 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 56.67% and 43.33% respectively at the end of Jan-18. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 31<sup>st</sup> January, 2018, the private access service providers held 90.29% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.71%. 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> January, 2018**



**Net Additions in Wireless Subscribers of Access Service Providers in the Month of January, 2018**



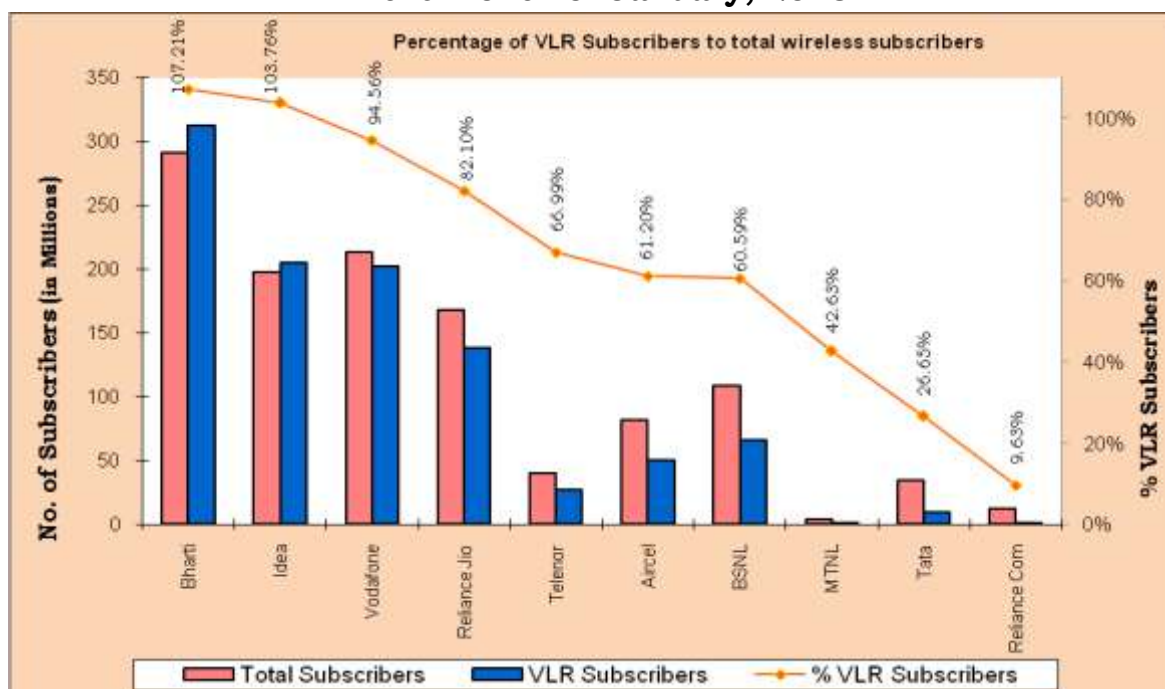
**Note:** 1. On noticing that while reporting number of subscribers, some of the TSPs were deducting inactive subscribers. A Direction was issued on 18<sup>th</sup> August 2017 to TSPs to strictly adhere to the Department of Telecommunications' methodology for reporting their number of subscribers. However, some of the Telecom Service Providers are yet to comply with the Direction.



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

- Out of the total wireless subscribers (1,151.94 million), 1,012.57 million wireless subscribers were active on the date of peak VLR in the month of Jan-18. The proportion of active wireless subscribers was approximately 87.90% 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 Jan-18 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

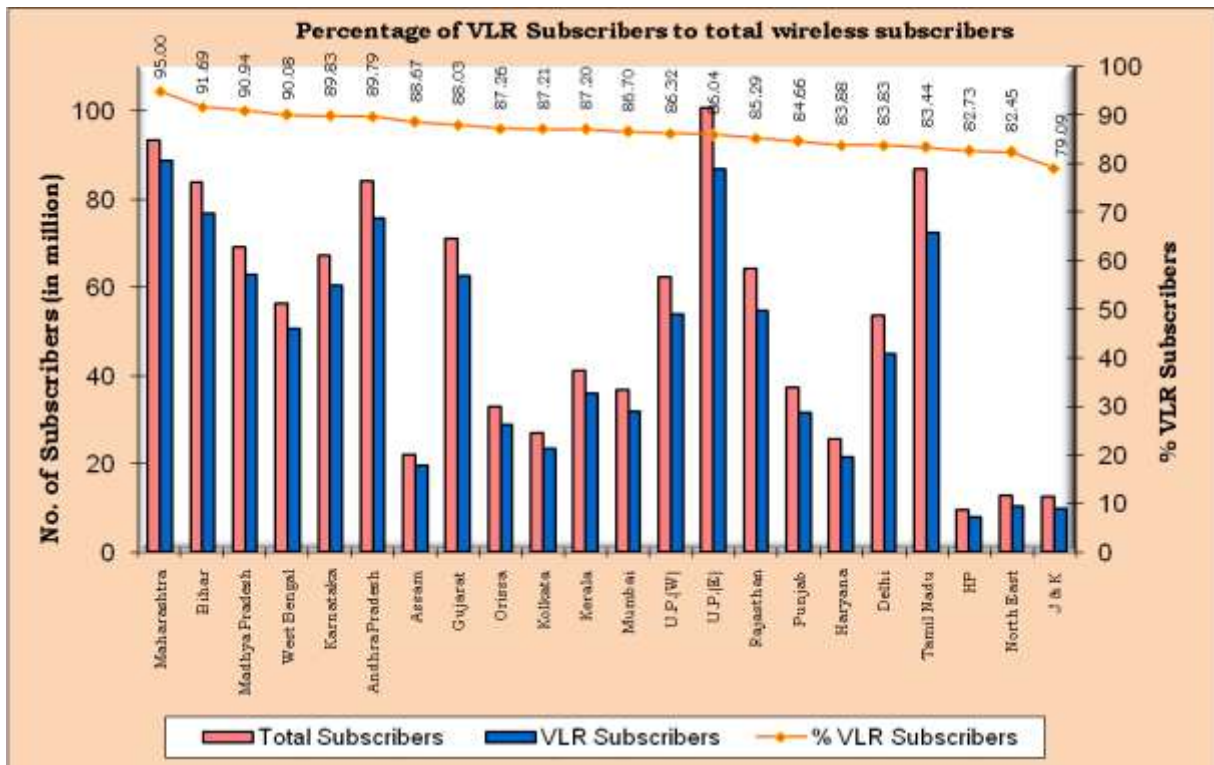
**Access Service Provider-wise Percentage of VLR Subscribers in the Month of January, 2018**



Note-

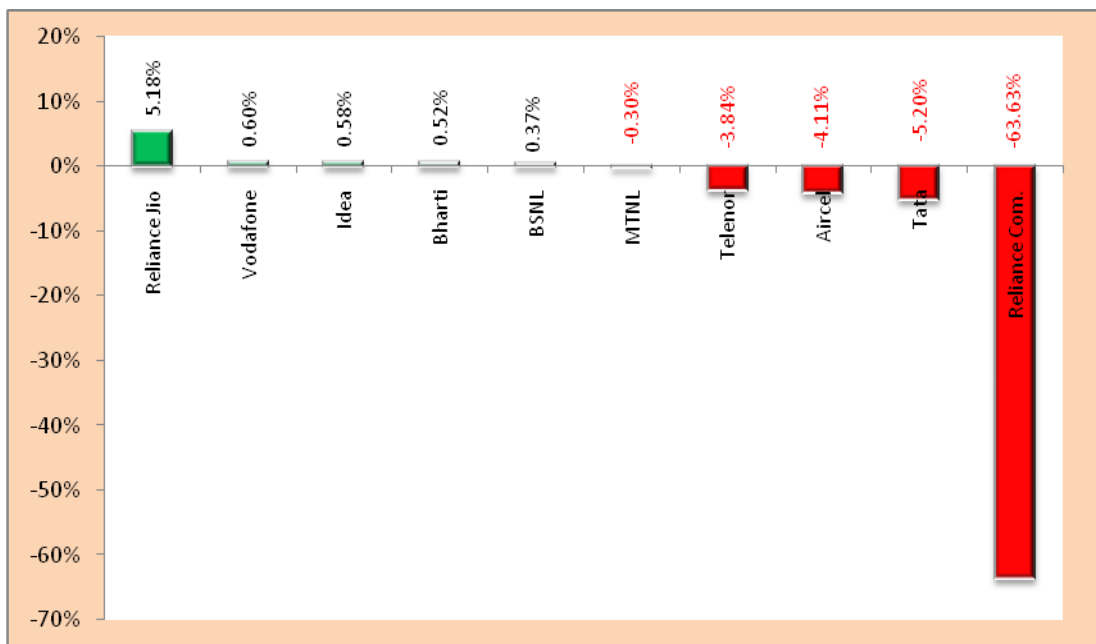
1. Number of VLR subscribers of Bharti Airtel and Idea Cellular were more than their subscriber base due to a large number of inroamers in its network.

### Service Area wise percentage of VLR Subscribers in the Month of January, 2018



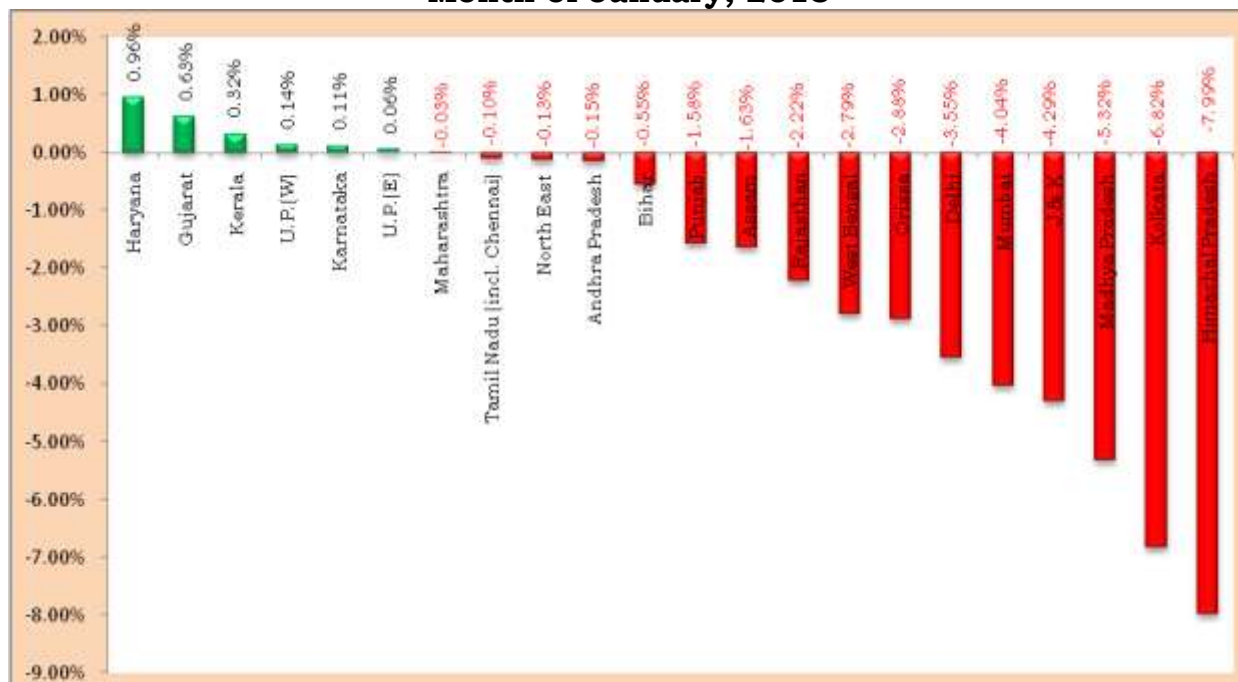
### V. Growth in Wireless Subscribers

#### Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the Month of January, 2018





### Service Area-wise Monthly Growth Rate of Wireless Subscribers in the Month of January, 2018



- During the month of January, 2018, Haryana service area showed maximum growth rate (0.96%) in wireless subscribers. However, Himachal Pradesh service areas showed maximum decline rate (7.99%) in wireless subscribers 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 Jan-18, a total of 6.18 million requests were received for MNP. With this, the cumulative MNP requests increased from 338.41 million at the end of Dec-17 to 344.59 million at the end of Jan-18, since the implementation of MNP.

- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Rajasthan (about 28.69 million) followed by Maharashtra (about 24.56 million) service area.
- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 35.27 million) followed by Andhra Pradesh (about 30.15 million).

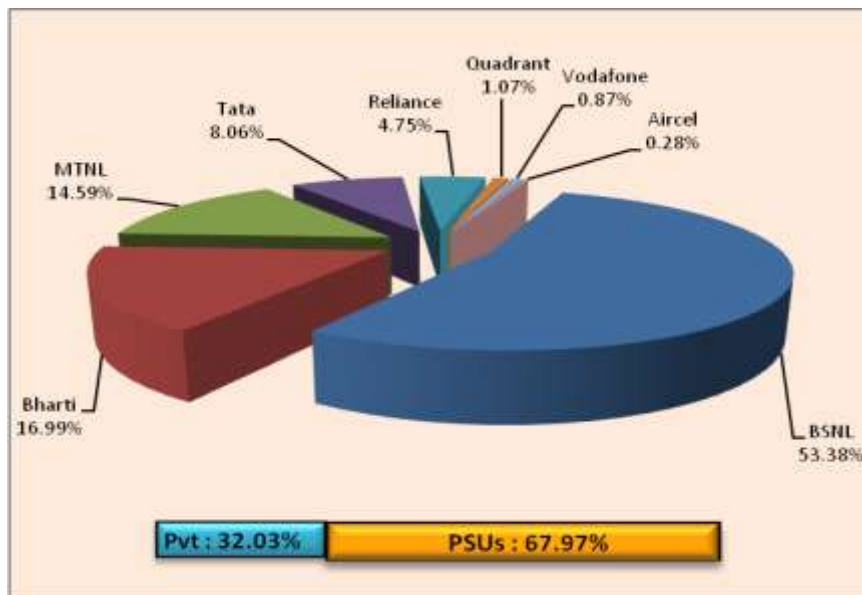
<b>Service Area Wise MNP Status at the end of January, 2018</b>			
<b>Zone -I</b>		<b>Zone - II</b>	
<b>Service Area</b>	<b>Number of Porting Requests</b>	<b>Service Area</b>	<b>Number of Porting Requests</b>
Delhi	16,573,428	Andhra Pradesh	30,150,307
Gujarat	23,957,248	Assam	2,073,172
Haryana	13,308,773	Bihar	12,557,058
Himachal Pradesh	1,747,146	Karnataka	35,273,397
Jammu & Kashmir	378,844	Kerala	8,858,141
Maharashtra	24,562,226	Kolkata	7,840,162
Mumbai	18,953,851	Madhya Pradesh	24,443,637
Punjab	13,230,107	North East	688,994
Rajasthan	28,692,844	Orissa	6,748,275
Uttar Pradesh - East	18,395,539	Tamil Nadu	21,916,044
Uttar Pradesh - West	15,609,211	West Bengal	18,629,039
<b>Total</b>	<b>175,409,217</b>	<b>Total</b>	<b>169,178,226</b>
<b>Total (Zone-I + Zone-II)</b>		<b>344,587,443</b>	
<b>Net Addition (in January, 2018)</b>		<b>6,179,052</b>	

## **VII. Wireline Subscribers**

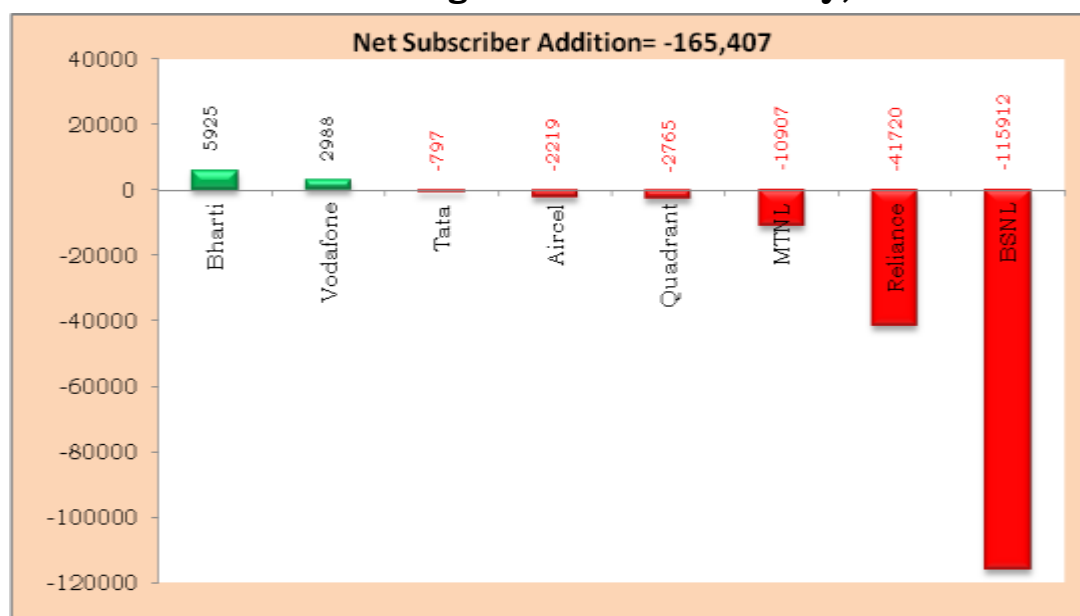
- Wireline subscribers further declined from 23.23 million at the end of Dec-17 to 23.07 million at the end of Jan-18. Net decline in the wireline subscriber base was 0.17 million with a monthly decline rate of 0.71%. The share of urban and rural subscribers in total wireline subscribers were 85.35% and 14.65% respectively at the end of Jan-18.

- The Overall Wireline Tele-density(%) declined from 1.79 at the end of Dec-17 to 1.78 at the end of Jan-18. Urban and Rural Wireline Tele-density were 4.81 and 0.38 respectively during the same period.
- BSNL and MTNL, the two PSU access service providers, held 67.97% of the wireline market share. Detailed statistics of wireline subscriber base are available at **Annexure-III**.

**Access Service Provider-wise Market Shares of Wireline Subscribers as on 31<sup>st</sup> January, 2018**



**Access Service Provider-wise Net Additions/declines in Wireline Subscribers during the Month of January, 2018**



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

- As per the reports received from the service providers, the number of broadband subscribers increased from 362.87 million at the end of Dec-17 to 378.10 million at the end of Jan-18 with a monthly growth rate of 4.20%. Segment-wise broadband subscribers and their monthly growth rates are as below:

#### Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of January, 2018

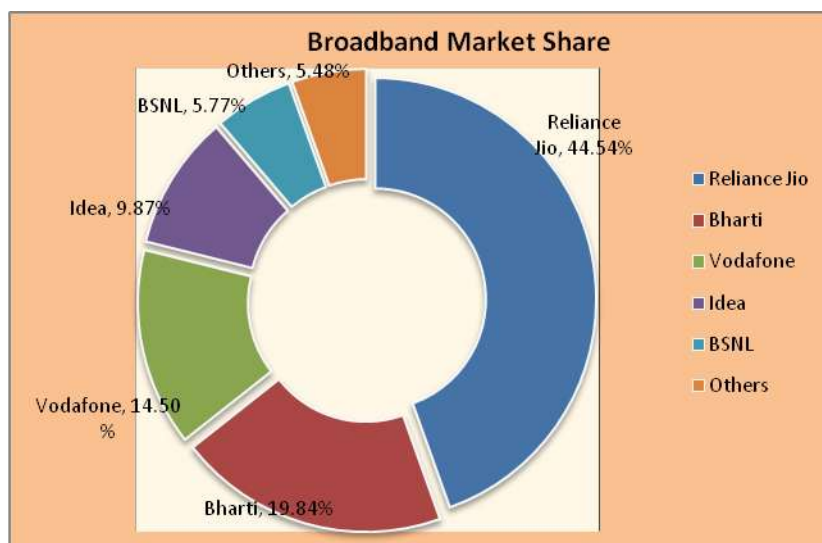
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of Jan-18
	As on 31 <sup>st</sup> December, 2017	As on 31 <sup>st</sup> January, 2018	
Wired subscribers	17.86	17.87	0.10%
Mobile devices users (Phones and dongles)	344.57	359.80	4.42%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.44	0.43	-1.67%
<b>Total</b>	<b>362.87</b>	<b>378.10</b>	<b>4.20%</b>

- Top five service providers constituted 94.52% market share of the total broadband subscribers at the end of Jan-18. These service providers were Reliance Jio Infocomm Ltd (168.39 million), Bharti Airtel (75.01 million), Vodafone (54.83 million), Idea Cellular (37.33 million) and BSNL (21.81 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 31.01.2018**



- As on 31<sup>st</sup> January, 2018, the top five Wired Broadband Service providers were BSNL (9.33 million), Bharti Airtel (2.16 million), Atria Convergence Technologies (1.29 million), MTNL (0.90 million) and Hathway Cable & Datacom (0.74 million).
- As on 31<sup>st</sup> January, 2018, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (168.39 million), Bharti Airtel (72.85 million), Vodafone (54.82 million), Idea Cellular (37.32 million) and BSNL (12.48 million).

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Authorized to issue:

(S. K. Mishra)

Pr. Advisor (F&EA)

**Wireless Subscriber Base**

**Annexure-I**

Circle	Group											
	Bharti		Reliance Com.		Vodafone		Tata		Idea		Aircel	
	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18
Andhra Pradesh	27184997	27243637	747146	282891	6689828	6540448	3043823	2956652	16626241	16732811	2455229	2315578
Assam	6766210	6781535	569804	43786	3787049	3787660			1151178	1156627	5892499	5840961
Bihar	31181437	31266989	1003168	107582	9550764	9605053	848179	772008	12047235	12177362	7549103	7361102
Delhi	12877050	13124580	4389205	1693900	11617410	11819724	1366540	1324675	6794793	6862009	6763176	6576054
Gujarat	9652110	9654665	890477	872692	20537804	20661425	1910192	1773289	13378193	13521096	0	63
Haryana	3943506	3958397	178794	158084	6272831	6351878	1543240	1443777	5084778	5117357	2092	0
Himachal Pradesh	3361346	3456770	1031862	191102	592849	593564	22799	19608	880211	915167	496715	249378
J & K	4084556	4092834	726412	20618	862593	846617			572422	565191	3422896	3457011
Karnataka	24251336	24437369	1092687	1063543	7667041	7673507	5317638	5081163	9300939	9339800	3051390	2772679
Kerala	4799436	4870592	180987	149461	7877602	7893797	911955	831541	11590307	11656555	292060	241862
Kolkata	5606347	5644255	2282737	146994	6021446	6055728	1878877	1793665	2443926	2461891	4254927	4170547
Madhya Pradesh	15039063	15116472	6144470	1427387	6544311	6548274	3320267	3195543	26420511	26596987	552	52
Maharashtra	14700063	14695353	415822	360042	20120081	20397736	3903771	3658218	28506515	28863475	1404799	604533
Mumbai	7659322	7754611	2957240	1123339	9639460	9726376	2136115	2085651	4472581	4506549	2526680	2370747
North East	4426986	4431631	148351	0	1570490	1576256			474695	468784	3292595	3349248
Orissa	11949613	12017446	1283869	99785	4293210	4314124	1219159	1140557	1713464	1746062	4030336	3967939
Punjab	9767310	9787421	1144604	298669	4943452	4939076	1475054	1375384	7417252	7447396	904542	821072
Rajasthan	21710763	21822760	3587447	1486119	11709525	11808027	467893	408296	7812272	7850159	6239272	6169611
Tamil Nadu (incl. Chennai)	19899546	20028886	954122	951604	16531883	16630703	2736879	2573186	5902784	5567682	20492085	20139301
U.P.(E)	25210561	25288013	886914	812885	22422483	22752762	2378946	2264851	11736184	11714732	6520776	6248159
U.P.(W)	9121232	9212063	682203	653653	12295907	12304037	2070183	1957605	16466929	16632960	566634	268618
West Bengal	16920289	16929555	1868028	117220	20980344	20983852	141445	127887	5704764	5742153	4776300	4518390
<b>Total</b>	<b>290113079</b>	<b>291615834</b>	<b>33166349</b>	<b>12061356</b>	<b>212528363</b>	<b>213810624</b>	<b>36692955</b>	<b>34783556</b>	<b>196498174</b>	<b>197642805</b>	<b>84934658</b>	<b>81442905</b>
<b>Net Addition</b>		<b>1502755</b>		<b>-21104993</b>		<b>1282261</b>		<b>-1909399</b>		<b>1144631</b>		<b>-3491753</b>
<b>Rural Subscribers</b>	<b>147893436</b>	<b>149298001</b>	<b>4892215</b>	<b>1794103</b>	<b>114882870</b>	<b>115620406</b>	<b>6415564</b>	<b>5808882</b>	<b>106048020</b>	<b>106186586</b>	<b>30813896</b>	<b>30051108</b>



**Wireless Subscriber Base**

**Annexure-I (contd.)**

Circle	Group										Net Addition
	BSNL		MTNL		Telenor		Reliance Jio		Total		
	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18	
Andhra Pradesh	10068021	10092416			4223046	4075080	13276818	13952799	84315149	84192312	-122837
Assam	1630211	1656069					2804544	2965719	22601495	22232357	-369138
Bihar	4147876	4184999			7855226	7585823	10105860	10765422	84288848	83826340	-462508
Delhi			2299685	2293024			9440273	9883575	55548132	53577541	-1970591
Gujarat	5544792	5634211			7132006	6835021	11546414	12087518	70591988	71039980	447992
Haryana	4251802	4306538					4188177	4372494	25465220	25708525	243305
Himachal Pradesh	2469366	2504005					1715932	1796778	10571080	9726372	-844708
J & K	1548957	1553874					1904180	2022972	13122016	12559117	-562899
Karnataka	7259286	7265239					9260031	9643863	67200348	67277163	76815
Kerala	10285323	10283343					5072047	5214732	41009717	41141883	132166
Kolkata	1301293	1334008					5278886	5478242	29068439	27085330	-1983109
Madhya Pradesh	5827364	5910914					9802824	10416340	73099362	69211969	-3887393
Maharashtra	6996873	7039426			5741125	5412303	11594705	12325133	93383754	93356219	-27535
Mumbai			1285081	1281108			7651459	7931465	38327938	36779846	-1548092
North East	1517183	1518611					1382810	1451637	12813110	12796167	-16943
Orissa	5269814	5266457					4263579	4492062	34023044	33044432	-978612
Punjab	5143003	5199175					7272099	7597707	38067316	37465900	-601416
Rajasthan	5504734	5560512					8776476	9241448	65808382	64346932	-1461450
Tamil Nadu (incl. Chennai)	9922543	9928807					10589205	11122066	87029047	86942235	-86812
U.P.(E)	11661212	11510334			9823240	9447236	10134487	10795225	100774803	100834197	59394
U.P.(W)	5832197	5831668			7136085	6947009	8153481	8602178	62324851	62409791	84940
West Bengal	1733481	1730836					5876955	6231921	58001606	56381814	-1619792
<b>Total</b>	<b>107915331</b>	<b>108311442</b>	<b>3584766</b>	<b>3574132</b>	<b>41910728</b>	<b>40302472</b>	<b>160091242</b>	<b>168391296</b>	<b>1167435645</b>	<b>1151936422</b>	<b>-15499223</b>
<b>Net Addition</b>		<b>396111</b>		<b>-10634</b>		<b>-1608256</b>		<b>8300054</b>	0	-15499223	
<b>Rural Subscribers</b>	<b>34998327</b>	<b>35115090</b>	<b>48063</b>	<b>47924</b>	<b>11925658</b>	<b>11438006</b>	<b>41078776</b>	<b>43727373</b>	<b>498996825</b>	<b>499087479</b>	<b>90654</b>

**Proportion of VLR on the date of Peak VLR in the month of Jan-18 (%)**

**Annexure-II**

Circle	Aircel	Bharti	BSNL	Idea	MTNL	Reliance	Reliance Jio	Tata	Telenor	Vodafone	Total
<b>Andhra Pradesh</b>	55.17	107.79	71.84	107.12		21.05	77.67	13.11	64.62	89.63	<b>89.79</b>
<b>Assam</b>	77.34	99.30	65.95	100.34		19.60	91.52			92.05	<b>88.67</b>
<b>Bihar</b>	71.12	100.19	63.77	102.87		25.66	94.21	15.30	73.78	95.94	<b>91.69</b>
<b>Delhi</b>	56.42	99.56		102.16	33.34	2.56	86.29	40.41		95.24	<b>83.83</b>
<b>Gujarat</b>	-	117.09	51.59	105.14		0.52	84.87	18.74	54.23	95.81	<b>88.03</b>
<b>Haryana</b>	-	120.84	45.06	105.21		5.08	65.97	28.63		96.84	<b>83.88</b>
<b>Himachal Pradesh</b>	144.93	95.58	55.27	117.87		4.77	72.47	16.10		101.85	<b>82.73</b>
<b>J &amp; K</b>	57.38	99.23	59.89	105.86		0.18	78.80			90.39	<b>79.09</b>
<b>Karnataka</b>	51.05	114.22	61.24	101.68		4.84	78.98	40.68		96.81	<b>89.83</b>
<b>Kerala</b>	67.01	108.98	69.04	101.55		6.83	68.48	18.27		98.01	<b>87.20</b>
<b>Kolkata</b>	63.23	116.31	68.01	100.86		36.62	79.99	15.21		104.37	<b>87.21</b>
<b>Madhya Pradesh</b>	467.31	110.89	61.45	103.51		10.57	78.85	43.46		80.40	<b>90.94</b>
<b>Maharashtra</b>	24.62	121.20	59.53	104.81		13.76	92.50	38.95	63.47	97.94	<b>95.00</b>
<b>Mumbai</b>	47.99	117.30		93.81	59.26	16.45	91.43	26.15		89.31	<b>86.70</b>
<b>North East</b>	59.57	98.30	70.27	101.62		-	84.00			91.12	<b>82.45</b>
<b>Orissa</b>	53.56	104.26	71.27	112.48		0.49	96.23	12.92		92.50	<b>87.26</b>
<b>Punjab</b>	51.88	112.97	50.23	100.59		14.55	68.02	15.06		95.49	<b>84.66</b>
<b>Rajasthan</b>	41.70	100.14	64.75	104.16		14.63	75.23	19.23		96.81	<b>85.29</b>
<b>Tamil Nadu (incl. Chennai)</b>	67.59	106.09	65.31	106.80		5.66	79.59	25.56		94.34	<b>83.44</b>
<b>U.P. (E)</b>	57.04	107.61	47.82	106.12		10.55	88.21	10.21	70.30	94.79	<b>86.04</b>
<b>U.P. (W)</b>	41.93	112.24	46.95	101.09		12.10	76.75	15.55	71.75	96.69	<b>86.32</b>
<b>West Bengal</b>	62.92	98.36	81.87	105.30		16.42	78.89	2.31		90.02	<b>90.08</b>
<b>Total</b>	<b>61.20</b>	<b>107.21</b>	<b>60.59</b>	<b>103.76</b>	<b>42.63</b>	<b>9.63</b>	<b>82.10</b>	<b>26.65</b>	<b>66.99</b>	<b>94.56</b>	<b>87.90</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**

Circle	Group																Total		Net Addition
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant		Vodafone		Aircel		Dec-17	Jan-18	
	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18	Dec-17	Jan-18					
Andhra Pradesh	1080608	1058998			164994	166960	73284	72859	174331	172249			26010	26650	5347	5312	1524574	1503028	-21546
Assam	138036	136323											2700	2610			140736	138933	-1803
Bihar	251263	253850					6246	6227	12087	11404			2010	2070			271606	273551	1945
Delhi			1555478	1549194	1311798	1314227	162689	160418	143514	142490			32070	31620	14909	14801	3220458	3212750	-7708
Gujarat	1041619	1041879			78553	79090	70177	69936	92421	92601			9797	9857	1063	0	1293630	1293363	-267
Haryana	243,298	240,439			22559	22505	3627	3618	38414	38062							307898	304624	-3274
Himachal Pradesh	121,623	119,934					3889	3864	2389	2352			60	60			127961	126210	-1751
J & K	116,807	115,041															116807	115041	-1766
Karnataka	1127253	1111834			640466	642505	153214	148115	270557	270488			33625	34395	28622	32194	2253737	2239531	-14206
Kerala	1882601	1872165			58236	58253	30828	25385	18799	18791			2430	2460			1992894	1977054	-15840
Kolkata	569979	567354			122138	122368	67394	67209	50239	50668			6420	6600	2592	2568	818762	816767	-1995
Madhya Pradesh	679047	672888			263865	261120	19335	19294	15346	15431			600	660			978193	969393	-8800
Maharashtra	1283293	1270492			80552	81437	76883	74440	307763	308179			15395	15967	585	0	1764471	1750515	-13956
Mumbai			1820673	1816050	357551	357872	248775	245260	558877	559221			29582	30058	11010	7063	3026468	3015524	-10944
North East	113002	113036											120	210			113122	113246	124
Orissa	260470	261738					3188	3186	8100	8270			1530	1530			273288	274724	1436
Punjab	483142	476204			120048	120311	18956	18781	15924	15986	250373	247608	1110	1380	30	30	889583	880300	-9283
Rajasthan	514592	508307			49915	49936	29500	18907	12652	12951			5880	5970	3551	3522	616090	599593	-16497
Tamil Nadu (incl. Chennai)	1565517	1541172			555742	555813	127374	116214	113535	115921			14950	15120			2377118	2344240	-32878
U.P.(E)	365061	365435			64156	64172	33804	33791	13570	13067			9100	9160	2	2	485693	485627	-66
U.P.(W)	313711	310539			22568	22497	6967	6937	9593	9100			4050	4050			356889	353123	-3766
West Bengal	279736	277118					1862	1831	3051	3134			60	60			284709	282143	-2566
<b>Total</b>	<b>12430658</b>	<b>12314746</b>	<b>3376151</b>	<b>3365244</b>	<b>3913141</b>	<b>3919066</b>	<b>1137992</b>	<b>1096272</b>	<b>1861162</b>	<b>1860365</b>	<b>250373</b>	<b>247608</b>	<b>197499</b>	<b>200487</b>	<b>67711</b>	<b>65492</b>	23234687	23069280	<b>-165407</b>
<b>Net Addition</b>		<b>-115912</b>		<b>-10907</b>		<b>5925</b>		<b>-41720</b>		<b>-797</b>		<b>-2765</b>		<b>2988</b>		<b>-2219</b>			-165407
<b>Rural Subscribers</b>	3308587	3269102	0	0	0	0	1696	1699	54632	54692	55491	53769	0	0	0	0	3420406	3379262	-41144

## 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.