

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 9<sup>th</sup> November, 2017

(www.traai.gov.in)

**Highlights of Telecom Subscription Data as on 31<sup>st</sup> August, 2017**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Total Telephone Subscribers</b> (Million)	<b>1185.84</b>	<b>23.77</b>	<b>1209.61</b>
Net Addition in August, 2017 (Million)	-0.95	-0.15	-1.10
Monthly Growth Rate	-0.08%	-0.63%	-0.09%
<b>Urban Telephone Subscribers</b> (Million)	<b>687.14</b>	<b>20.19</b>	<b>707.33</b>
Net Addition in August, 2017 (Million)	4.46	-0.10	4.36
Monthly Growth Rate	0.65%	-0.48%	0.62%
<b>Rural Telephone Subscribers</b> (Million)	<b>498.70</b>	<b>3.58</b>	<b>502.28</b>
Net Addition in August, 2017 (Million)	-5.41	-0.05	-5.46
Monthly Growth Rate	-1.07%	-1.44%	-1.07%
<b>Overall Tele-density*(%)</b>	<b>91.87</b>	<b>1.84</b>	<b>93.71</b>
Urban Tele-density*(%)	169.05	4.97	174.01
Rural Tele-density*(%)	56.39	0.40	56.80
Share of Urban Subscribers	57.95%	84.94%	58.48%
Share of Rural Subscribers	42.05%	15.06%	41.52%
<b>Broadband Subscribers</b> (Million)	<b>298.37</b>	<b>18.11</b>	<b>316.48</b>

- ❖ In the month of August, 2017, 5.03 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 294.87 million at the end of Jul-17 to 299.90 million at the end of Aug-17, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR<sup>#</sup>) in August, 2017 was 1,018.74 million.

**Note:**

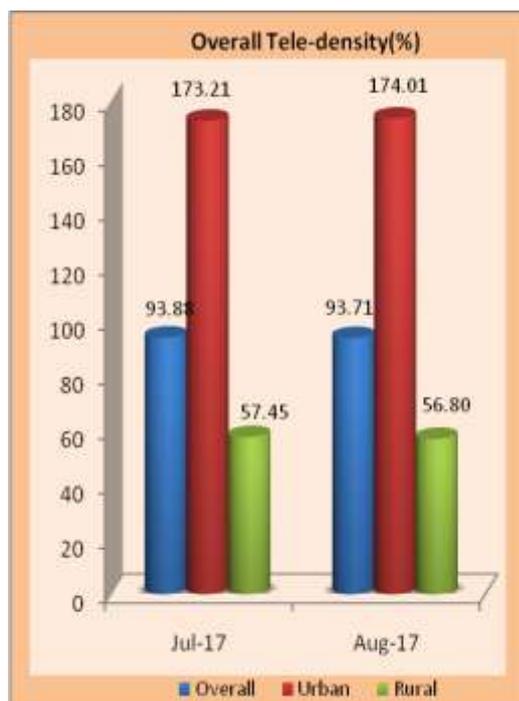
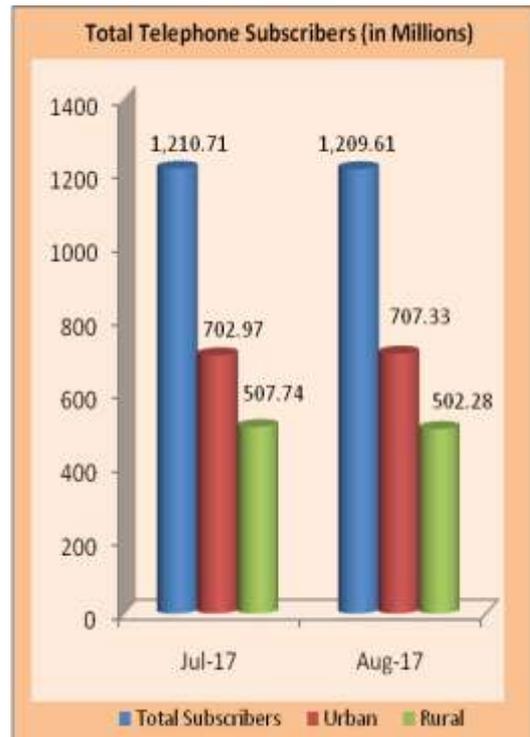
- Information in this Press Release is based on the data provided by the Service Providers

\* 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.

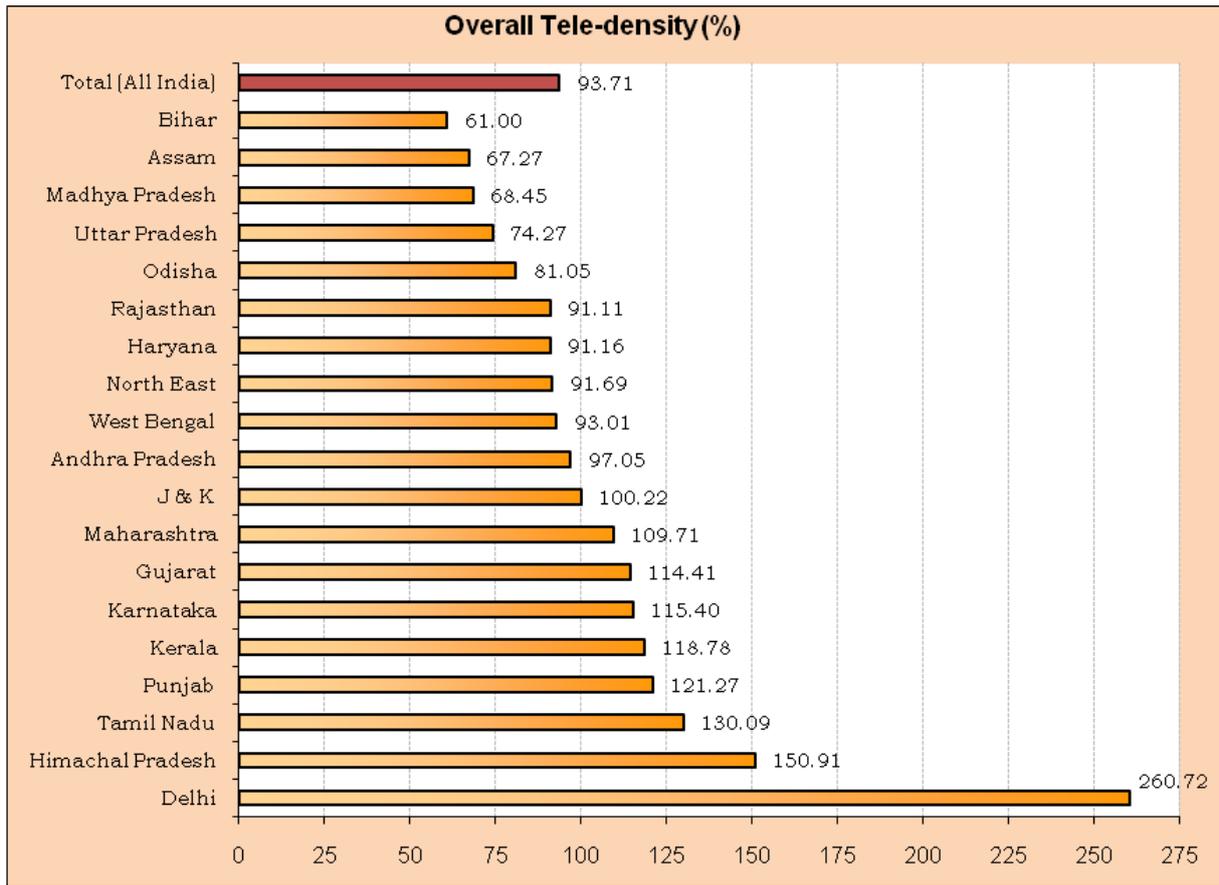
## I. Total Telephone Subscribers

- The number of telephone subscribers in India slightly declined from 1,210.71 million at the end of Jul-17 to 1,209.61 million at the end of Aug-17, thereby showing a monthly growth rate of -0.09%. The urban subscription increased from 702.97 million at the end of Jul-17 to 707.33 million at the end of Aug-17, however the rural subscription declined from 507.74 million to 502.28 million during the same period. The monthly growth rates of urban and rural subscription were 0.62% and -1.07% respectively during the month of Aug-17.



- The overall Tele-density in India declined from 93.88 at the end of Jul-17 to 93.71 at the end of Aug-17. The Urban Tele-density increased from 173.21 at the end of Jul-17 to 174.01 at the end of Aug-17, however the Rural Tele-density declined from 57.45 at the end of Jul-17 to 56.80 at the end of Aug-17. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of Aug-17 was 58.48% and 41.52% respectively.

## Overall Tele-density (Circle/State Wise) – As on 31<sup>st</sup> August, 2017



### 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 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 August, 2017

Circle Category	Net additions in the month of August, 2017		Telephone Subscriber base as on 31 <sup>st</sup> August, 2017	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-54,349	366,241	9,345,890	413,641,610
Circle B	-66,933	-574,592	6,147,907	473,073,395
Circle C	-14,133	-667,262	1,073,602	177,733,341
Metro	-15,064	-73,164	7,043,167	121,392,882
<b>All India</b>	<b>-150,479</b>	<b>-948,777</b>	<b>23,610,566</b>	<b>1,185,841,228</b>

### Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of August, 2017

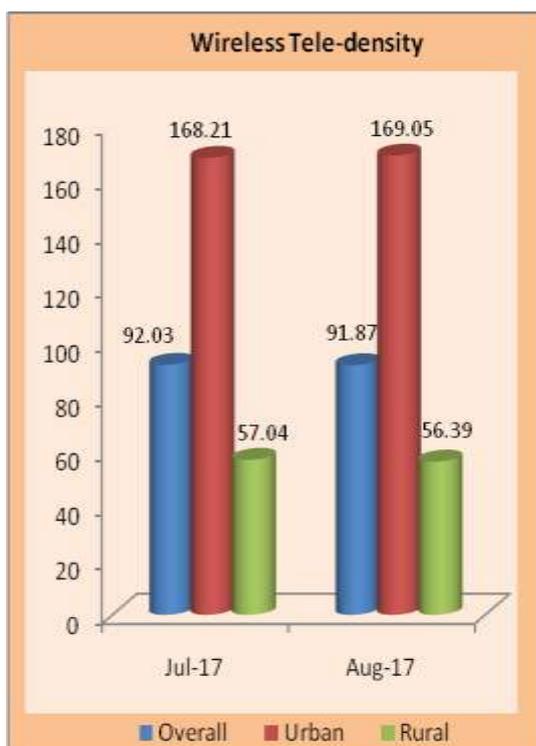
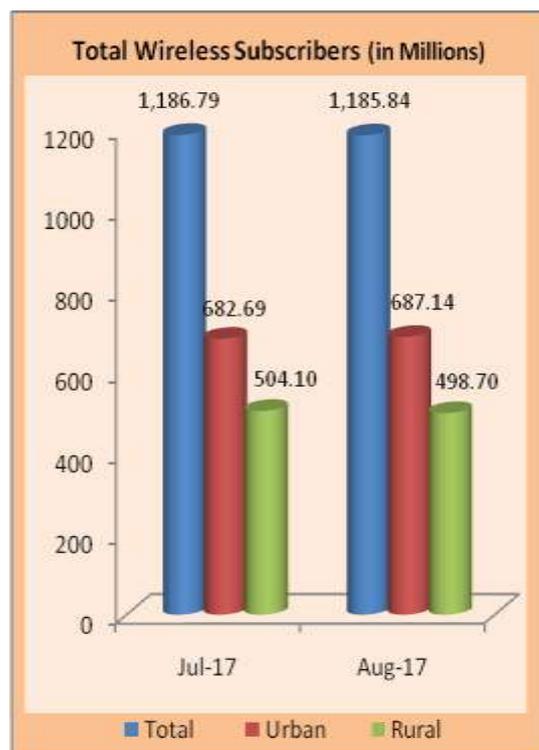
Circle Category	Monthly growth rate (%) (Jul-17 to Aug-17)		Yearly growth rate (%) (Aug-16 to Aug-17)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-0.58	0.09	-3.17	14.67
Circle B	-1.08	-0.12	-6.83	15.03
Circle C	-1.30	-0.37	-8.80	14.58
Metro	-0.21	-0.06	-0.57	19.28
<b>All India</b>	<b>-0.63</b>	<b>-0.08</b>	<b>-3.67</b>	<b>15.26</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 rate in subscriber base during the month of Aug-17. Circles of all other Categories showed negative monthly growth in subscriber base during the same period.
- In Wireline segment, Circles of Category-B showed maximum monthly net decline in number of subscribers during the month of Aug-17. However, Circles of Category-C showed maximum monthly decline rate in subscriber base during the same period.

### III. Wireless Subscribers

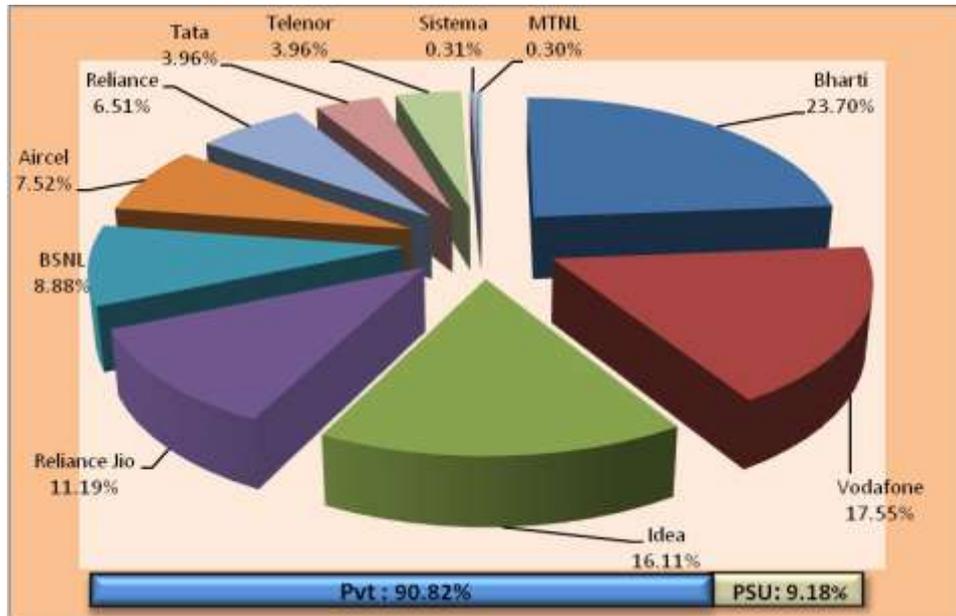
• Total wireless subscribers (GSM, CDMA & LTE) declined from 1,186.79 million at the end of Jul-17 to 1,185.84 million at the end of Aug-17, thereby registering a monthly growth rate of -0.08%. The Wireless subscription in urban areas increased from 682.69 million at the end of Jul-17 to 687.14 million at the end of Aug-17, however wireless subscription in rural areas declined from 504.10 million to 498.70 million during the same period. The monthly growth rates of urban and rural wireless subscription were 0.65% and -1.07% respectively.



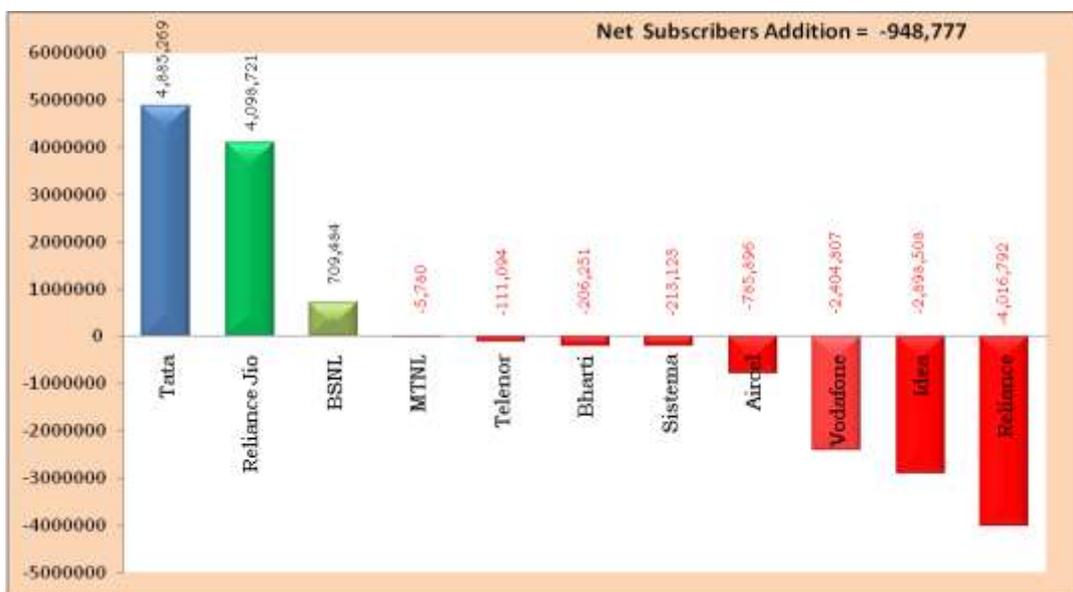
• The Wireless Tele-density(%) in India declined from 92.03 at the end of Jul-17 to 91.87 at the end of Aug-17. The Urban Wireless Tele-density increased from 168.21 at the end of Jul-17 to 169.05 at the end of Aug-17, however Rural Wireless Tele-density declined from 57.04 to 56.39 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 57.95% and 42.05% respectively at the end of Aug-17. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 31<sup>st</sup> August, 2017, the private access service providers held 90.82% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.18%. 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> August, 2017**



**Net Additions\* in Wireless Subscribers of Access Service Providers in the Month of August, 2017**

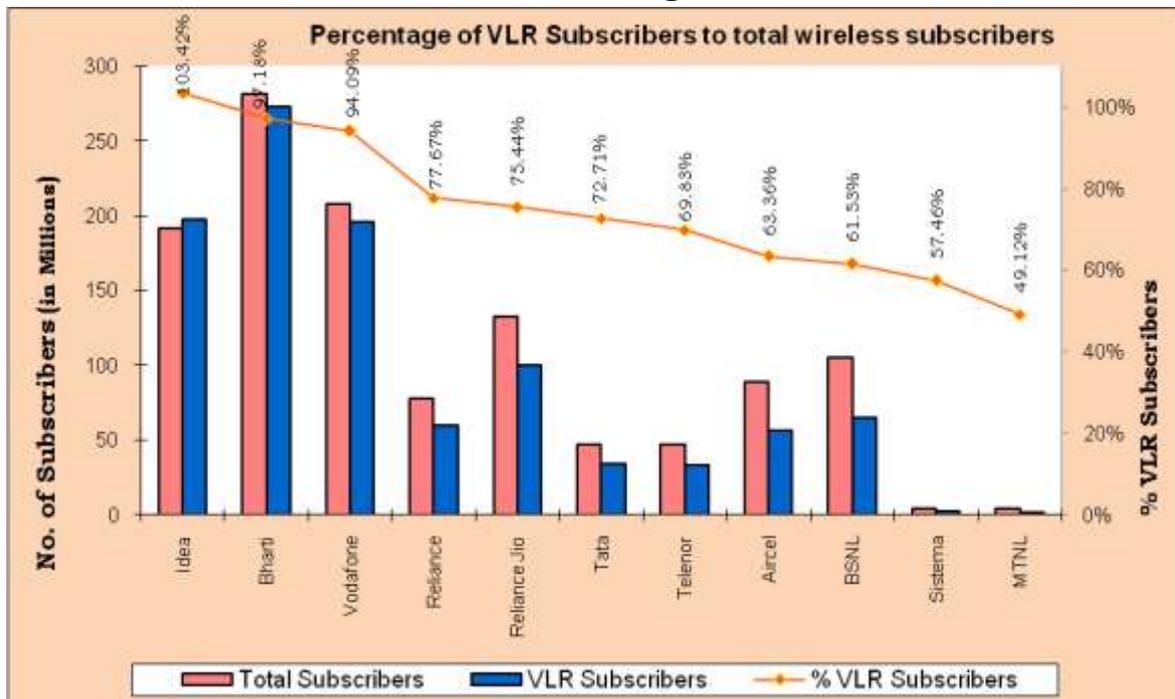


**\*Note:** On noticing that while reporting number of subscribers, some of the TSPs were deducting inactive subscribers. A Direction was issued on 18<sup>th</sup> August 2017 to TSPs to strictly adhere to the Department of Telecommunications' methodology for reporting their number of subscribers w.e.f. month ending August 2017. 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 (1,185.84 million), 1,018.74 million wireless subscribers were active on the date of peak VLR in the month of Aug-17. The proportion of active wireless subscribers was approximately 85.91% 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 Aug-17 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

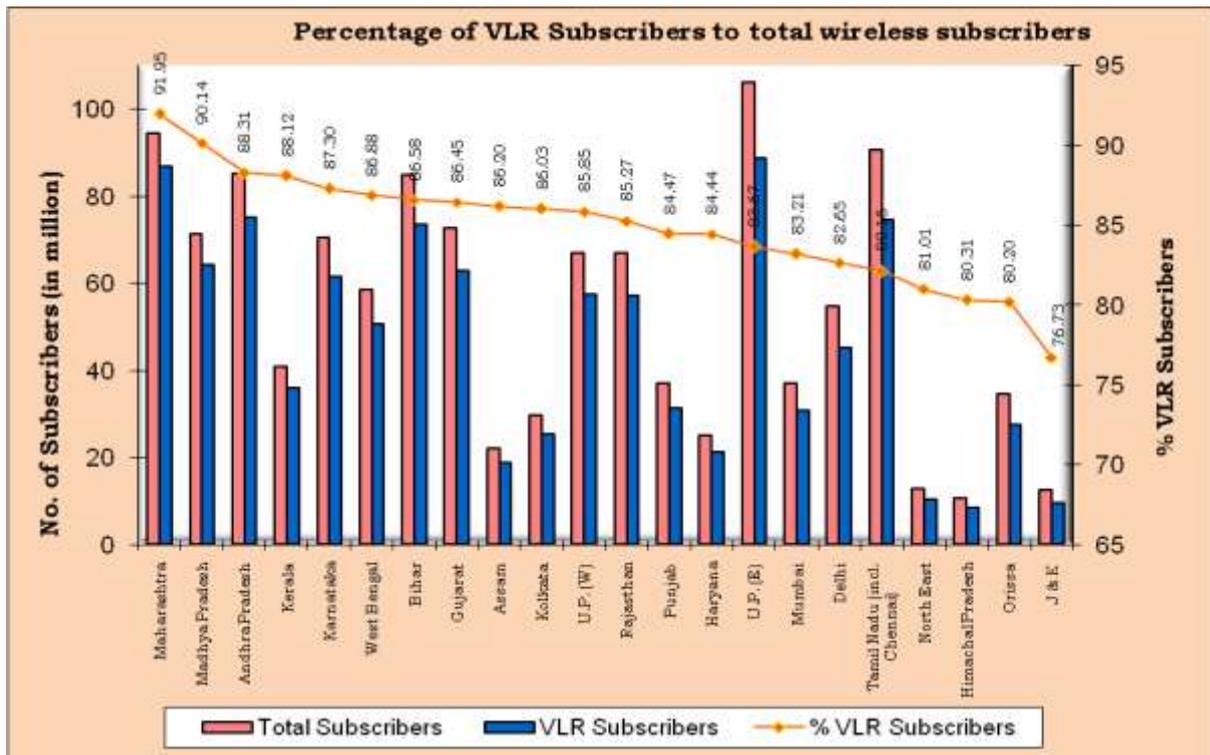
**Access Service Provider-wise Percentage of VLR Subscribers in the Month of August, 2017**



Note-

1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

### Service Area wise percentage of VLR Subscribers in the Month of August, 2017

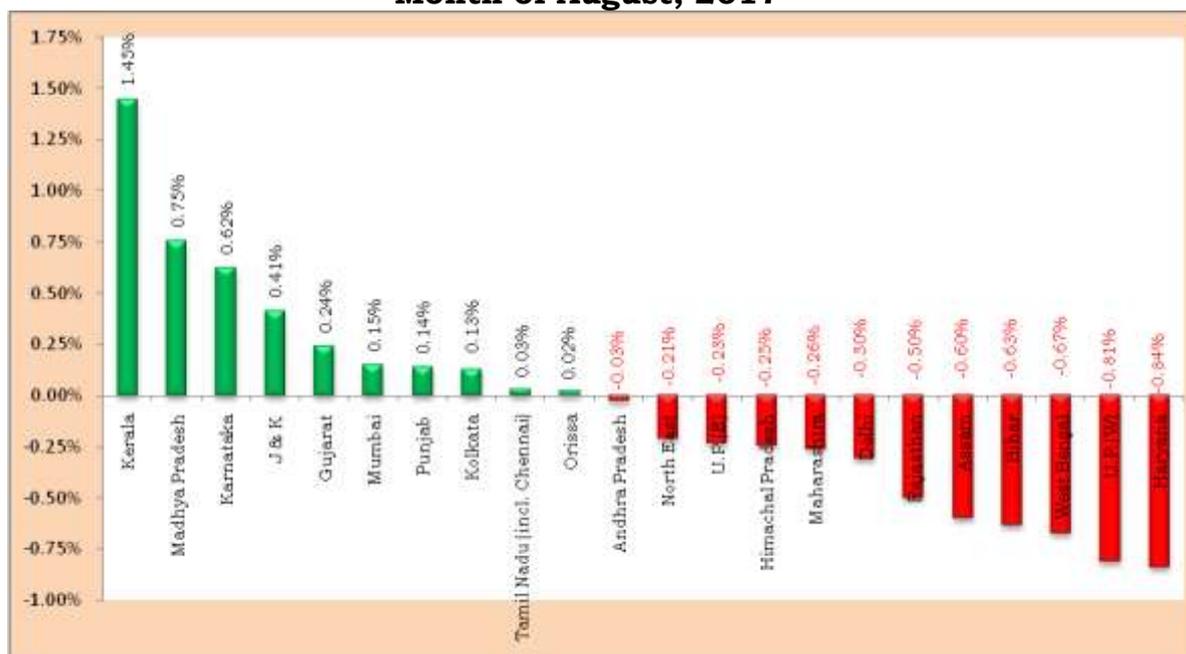


### V. Growth in Wireless Subscribers

#### Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the Month of August, 2017



### Service Area-wise Monthly Growth Rate of Wireless Subscribers in the Month of August, 2017



- During the month of Aug-17, Kerala service area showed maximum growth rate in wireless subscribers during the month of Aug-17. However, Haryana service areas showed maximum decline rate 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 Aug-17, a total of 5.03 million requests were received for MNP. With this, the cumulative MNP requests increased from 294.87 million at the end of Jul-17 to 299.90 million at the end of Aug-17, 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 25.25 million) followed by Gujarat (about 21.38 million).

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 32.47 million) followed by Andhra Pradesh (about 27.18 million).

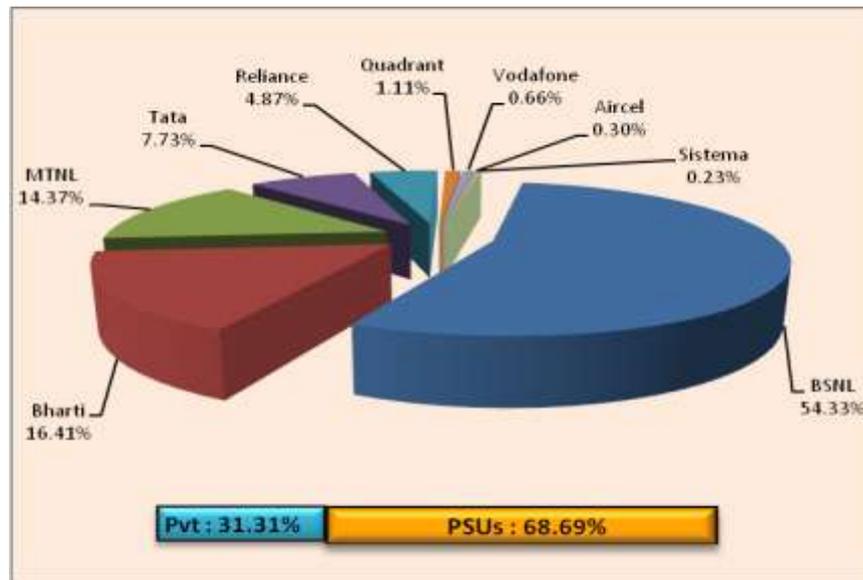
<b>Service Area Wise MNP Status at the end of August, 2017</b>			
<b>Zone - I</b>		<b>Zone - II</b>	
<b>Service Area</b>	<b>Number of Porting Requests</b>	<b>Service Area</b>	<b>Number of Porting Requests</b>
Delhi	13770209	Andhra Pradesh	27177412
Gujarat	21380378	Assam	1616171
Haryana	11977005	Bihar	10884668
Himachal Pradesh	1122979	Karnataka	32473020
Jammu & Kashmir	195206	Kerala	8045816
Maharashtra	20839520	Kolkata	6250433
Mumbai	16431348	Madhya Pradesh	20197002
Punjab	11675723	North East	592761
Rajasthan	25250528	Orissa	5868966
Uttar Pradesh - East	15295709	Tamil Nadu	18245788
Uttar Pradesh - West	13577470	West Bengal	17032166
<b>Total</b>	<b>151,516,075</b>	<b>Total</b>	<b>148,384,203</b>
<b>Total (Zone-I + Zone-II)</b>		<b>299,900,278</b>	
<b>Net Addition (in August, 2017)</b>		<b>5,028,648</b>	

## **VII. Wireline Subscribers**

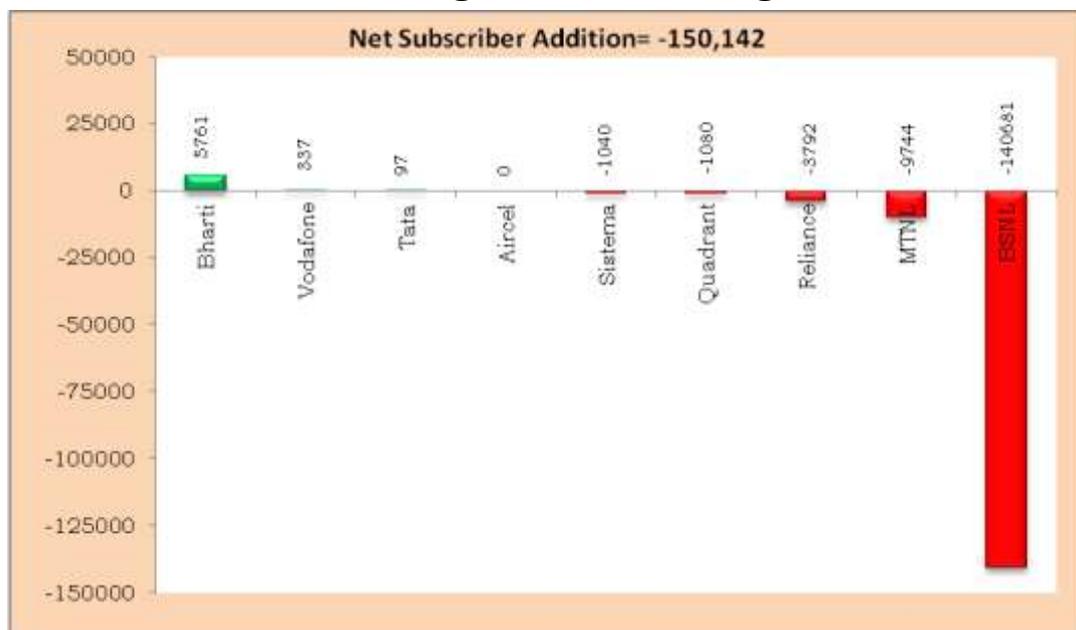
- Wireline subscribers declined from 23.92 million at the end of Aug-17 to 23.77 million at the end of Aug-17. Net decline in the wireline subscriber base was 0.15 million with a monthly decline rate of 0.63%. The share of urban and rural subscribers in total wireline subscribers were 84.94% and 15.06% respectively at the end of Aug-17.
- The Overall Wireline Tele-density(%) declined from 1.85 at the end of Jul-17 to 1.84 at the end of Aug-17. Urban and Rural Wireline Tele-density were 4.97 and 0.40 respectively during the same period.

- BSNL and MTNL, the two PSU access service providers, held 68.69% of the wireline market share. Detailed statistics of wireline subscriber base are available at **Annexure-III**.
- The graphical representations of service provider-wise market shares in the wireline segment and net additions in wireline subscriber bases in the month of Aug-17 are given below:

**Access Service Provider-wise Market Shares of Wireline Subscribers as on 31<sup>st</sup> August, 2017**



**Access Service Provider-wise Net Additions/declines in Wireline Subscribers during the Month of August, 2017**



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

- As per the reports received from the service providers, the number of broadband subscribers increased from 310.87 Million at the end of Jul-17 to 316.48 million at the end of Aug-17 with a monthly growth rate of 1.81%. Segment-wise broadband subscribers and their monthly growth rates are as below:

#### Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of August, 2017

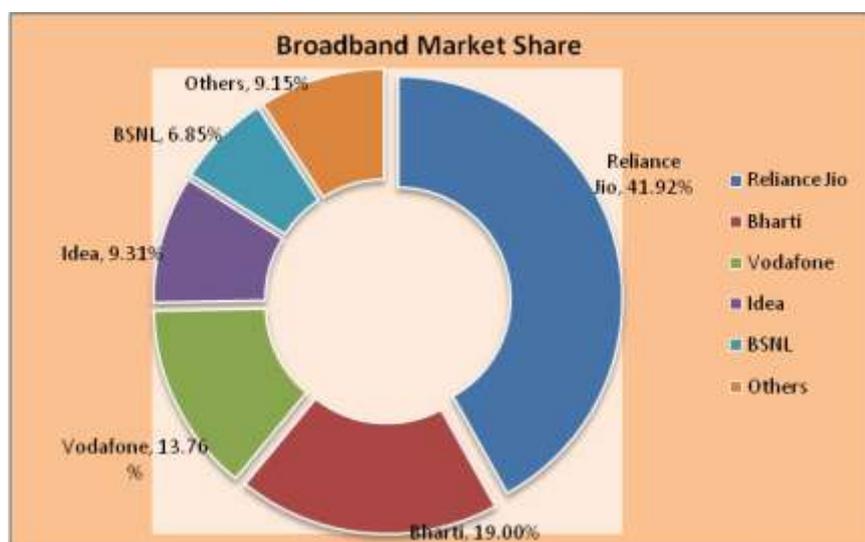
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of Aug-17
	As on 31 <sup>st</sup> July, 2017	As on 31 <sup>st</sup> August, 2017	
Wired subscribers	18.14	18.11	-0.15
Mobile devices users (Phones and dongles)	292.22	297.90	1.94
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.51	0.47	-7.21
<b>Total</b>	<b>310.87</b>	<b>316.48</b>	<b>1.81</b>

- Top five service providers constituted 90.85% market share of the total broadband subscribers at the end of Aug-17. These service providers were Reliance Jio Infocom Ltd (132.68 million), Bharti Airtel (60.14 million), Vodafone (43.56 million), Idea Cellular (29.46 million) and BSNL (21.69 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 31.08.2017**



- As on 31<sup>st</sup> August, 2017, the top five Wired Broadband Service providers were BSNL (9.60 million), Bharti Airtel (2.11 million), Atria Convergence Technologies (1.24 million), MTNL (0.96 million) and YOU Broadband (0.66 million).
- As on 31<sup>st</sup> August, 2017, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (132.68 million), Bharti Airtel (58.03 million), Vodafone (43.55 million), Idea Cellular (29.46 million) and Reliance Communications (10.87 million).

Contact details in case of any clarification:

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Pr. Advisor (F&EA)

**Wireless Subscriber Base**

**Annexure-I**

Circle	Group											
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel	
	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17
Andhra Pradesh	26638186	26656526	3425484	3258483	6867192	6806361	3332530	3647270	16938664	16671980	2608564	2603930
Assam	6624021	6602681	1007338	853834	3868908	3812657			1239308	1173486	5884219	5897517
Bihar	31240511	30994257	3112128	2936772	9736756	9549148	1113448	1222016	12368670	12110225	7590074	7548595
Delhi	11981354	12132993	5731960	5279339	11030784	11020846	1332946	1537021	6523661	6502333	6900962	6882321
Gujarat	9258770	9257183	5440369	5222445	20234979	20178798	2148992	2512487	12972385	12795742	15467	15467
Haryana	3646606	3585375	1424162	1240769	6019205	5945592	2026283	2228856	5058203	4836399	3092	3092
Himachal Pradesh	3068448	3094777	1507890	1423357	682179	635641	32594	36557	825199	809959	1072569	1057070
J & K	3835826	3847889	807655	806627	997382	950495			665344	630001	3186160	3226094
Karnataka	22965302	23182636	5395847	5111918	7789893	7715597	5503567	6145509	9515661	9330506	3318202	3218004
Kerala	4641721	4704167	1208179	1168511	7745605	7770199	1119279	1255517	11171159	11270182	355116	341648
Kolkata	5141027	5162669	3838615	3750023	5788503	5711247	2206136	2392615	2590968	2471299	4387777	4361627
Madhya Pradesh	14220996	14167600	9042324	8696076	6600106	6462704	3786256	4327729	24272818	24310866	20694	20694
Maharashtra	14881807	14641920	3519888	3320983	19754226	19473342	4278996	4711605	27050093	26995442	2346893	2279693
Mumbai	6631153	6720213	4675555	4343459	8941002	8937232	2373323	2576323	4319996	4313835	2871666	2738022
North East	4400802	4395027	244663	214534	1588005	1574158			533821	517823	3516243	3498404
Orissa	11803288	11772104	2091848	2030285	4487580	4382735	1574059	1768584	1843176	1778339	4388770	4309918
Punjab	9348553	9375358	1642239	1455658	5298472	5119298	1881860	2061956	7173121	7061438	1108271	1100781
Rajasthan	21327136	21300760	5456820	5347383	12007134	11641299	684208	745603	8121526	7864170	6594327	6546709
Tamil Nadu (incl. Chennai)	19042961	19176580	5622361	5349124	16296417	16207228	3390810	3768845	5888168	5801021	20996483	20886433
U.P.(E)	24663553	24577707	7528180	7133574	21497849	21401785	2732338	3083843	12343227	11990212	6748346	6656535
U.P.(W)	9135352	9026913	5483048	5319979	12665741	12305544	2380282	2721392	16444208	15988204	872207	871716
West Bengal	16752715	16668502	3066048	2992676	20651591	20542796	197054	236502	6098433	5835839	5145981	5081917
<b>Total</b>	<b>281250088</b>	<b>281043837</b>	<b>81272601</b>	<b>77255809</b>	<b>210549509</b>	<b>208144702</b>	<b>42094961</b>	<b>46980230</b>	<b>193957809</b>	<b>191059301</b>	<b>89932083</b>	<b>89146187</b>
<b>Net Addition</b>		<b>-206251</b>		<b>-4016792</b>		<b>-2404807</b>		<b>4885269</b>		<b>-2898508</b>		<b>-785896</b>
<b>Rural Subscribers</b>	<b>141505149</b>	<b>141298184</b>	<b>18129616</b>	<b>16838739</b>	<b>116709158</b>	<b>112768186</b>	<b>8812322</b>	<b>9586126</b>	<b>107278759</b>	<b>105462829</b>	<b>31866207</b>	<b>31686672</b>

**Wireless Subscriber Base**

Annexure-I (contd.)

Circle	Group												Net Addition
	BSNL		MTNL		Telenor		Sistema		Reliance Jio		Total		
	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	
Andhra Pradesh	10022468	10028940			4624942	4539839			10725316	10945402	85183346	85158731	-24615
Assam	1534939	1547138							2016623	2155863	22175356	22043176	-132180
Bihar	4032201	4015579			8780746	8754554			7629393	7931513	85603927	85062659	-541268
Delhi			2318416	2315444			435913	402135	8585443	8602061	54841439	54674493	-166946
Gujarat	5051004	5142470			7963439	7822327	85483	78676	9338554	9657793	72509442	72683388	173946
Haryana	3985130	3969491							3312305	3451740	25474986	25261314	-213672
Himachal Pradesh	2261703	2288401							1272209	1350552	10722791	10696314	-26477
J & K	1515183	1529254							1449882	1518453	12457432	12508813	51381
Karnataka	7034574	7034875					598758	575653	8072922	8317644	70194726	70632342	437616
Kerala	9655253	9800587					191952	186407	4118531	4291196	40206795	40788414	581619
Kolkata	1134710	1136329					307046	290902	4226333	4382403	29621115	29659114	37999
Madhya Pradesh	5412263	5511025							7553864	7946946	70909321	71443640	534319
Maharashtra	6705211	6735393			6899035	6805767			9212795	9435454	94648944	94399599	-249345
Mumbai			1299675	1296867					5891122	6133324	37003492	37059275	55783
North East	1553074	1539615							1064682	1134668	12901290	12874229	-27061
Orissa	5180736	5175560							3170350	3330625	34539807	34548150	8343
Punjab	4884090	4973621							5747170	5986127	37083776	37134237	50461
Rajasthan	5761034	5889244					982088	910706	6498862	6850467	67433135	67096341	-336794
Tamil Nadu (incl. Chennai)	9715168	9798253					400347	388216	9386196	9391850	90738911	90767550	28639
U.P.(E)	11563526	11660824			11049870	11300099			8145935	8219009	106272824	106023588	-249236
U.P.(W)	5796138	5741423			7743445	7727797	79411	77205	6825304	7100094	67425136	66880267	-544869
West Bengal	1750438	1740305					842938	800913	4336816	4546144	58842014	58445594	-396420
<b>Total</b>	<b>104548843</b>	<b>105258327</b>	<b>3618091</b>	<b>3612311</b>	<b>47061477</b>	<b>46950383</b>	<b>3923936</b>	<b>3710813</b>	<b>128580607</b>	<b>132679328</b>	<b>1186790005</b>	<b>1185841228</b>	<b>-948777</b>
<b>Net Addition</b>		<b>709484</b>		<b>-5780</b>		<b>-111094</b>		<b>-213123</b>		<b>4098721</b>		<b>-948777</b>	
<b>Rural Subscribers</b>	<b>33694624</b>	<b>33845694</b>	<b>48455</b>	<b>48393</b>	<b>13550794</b>	<b>13500256</b>	<b>855334</b>	<b>808258</b>	<b>31654075</b>	<b>32855632</b>	<b>504104493</b>	<b>498698969</b>	<b>-5405524</b>

**Proportion of VLR on the date of Peak VLR in the month of Aug-17 (%)**

**Annexure-II**

Circle	Aircel	Bharti	BSNL	Idea	MTNL	Reliance	Reliance Jio	Sistema	Tata	Telenor	Vodafone	Total
<b>Andhra Pradesh</b>	54.37	98.93	72.27	105.43		86.01	70.67		79.21	72.90	86.01	<b>88.31</b>
<b>Assam</b>	83.67	96.79	71.14	104.31		3.42	90.23				88.57	<b>86.20</b>
<b>Bihar</b>	84.57	93.44	63.91	99.71		8.80	87.69		69.33	73.90	95.62	<b>86.58</b>
<b>Delhi</b>	51.24	96.11		104.36	40.83	79.44	73.03	42.89	44.67		99.20	<b>82.65</b>
<b>Gujarat</b>	2406.88	99.20	56.16	104.80		88.20	74.74	42.28	57.74	60.70	93.77	<b>86.45</b>
<b>Haryana</b>	0.32	95.93	46.50	105.11		88.32	71.70		78.18		95.02	<b>84.44</b>
<b>Himachal Pradesh</b>	44.38	93.10	59.36	113.94		91.19	75.53		21.13		99.52	<b>80.31</b>
<b>J &amp; K</b>	63.42	88.06	65.22	105.75		51.45	81.54				89.06	<b>76.73</b>
<b>Karnataka</b>	49.82	99.49	63.18	101.02		85.03	73.19	57.45	79.83		96.57	<b>87.30</b>
<b>Kerala</b>	59.69	99.90	69.92	102.84		90.71	73.46	47.14	75.36		94.61	<b>88.12</b>
<b>Kolkata</b>	59.37	99.67	74.50	100.27		97.59	70.42	71.69	79.20		98.15	<b>86.03</b>
<b>Madhya Pradesh</b>	0.98	96.53	62.50	104.52		88.54	78.02		65.41		79.57	<b>90.14</b>
<b>Maharashtra</b>	46.49	102.38	63.40	104.20		89.75	83.42		78.50	68.11	98.42	<b>91.95</b>
<b>Mumbai</b>	49.73	101.96		92.18	63.93	81.56	69.77		73.72		90.61	<b>83.21</b>
<b>North East</b>	60.36	97.95	70.94	105.12		14.71	81.60				90.16	<b>81.01</b>
<b>Orissa</b>	64.89	96.58	69.18	107.52		5.33	79.71		70.47		92.18	<b>80.20</b>
<b>Punjab</b>	49.63	97.81	56.34	101.85		88.35	69.41		71.91		92.48	<b>84.47</b>
<b>Rajasthan</b>	43.96	96.19	56.03	103.29		80.74	77.12	54.13	150.25		96.27	<b>85.27</b>
<b>Tamil Nadu (incl. Chennai)</b>	65.96	95.71	65.02	105.29		88.46	72.12	51.36	63.06		98.00	<b>82.16</b>
<b>U.P. (E)</b>	57.68	96.61	47.25	105.22		90.43	78.72		72.09	70.99	92.66	<b>83.67</b>
<b>U.P. (W)</b>	75.23	95.76	49.74	101.32		91.01	67.05	38.91	69.92	72.48	96.91	<b>85.85</b>
<b>West Bengal</b>	76.96	98.00	80.05	105.31		8.29	77.39	72.04	2.75		90.74	<b>86.88</b>
<b>Total</b>	<b>63.36</b>	<b>97.18</b>	<b>61.53</b>	<b>103.42</b>	<b>49.12</b>	<b>77.67</b>	<b>75.44</b>	<b>57.46</b>	<b>72.71</b>	<b>69.83</b>	<b>94.09</b>	<b>85.91</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									
	BSNL		MTNL		Bharti		Reliance		Tata	
	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17
Andhra Pradesh	1150737	1139613			163471	164366	74897	74812	175582	175809
Assam	145782	143868								
Bihar	263389	258885					6,496	6,466	12039	12148
Delhi			1581292	1574759	1298653	1301819	169002	167959	140137	139286
Gujarat	1063555	1058174			77642	77691	71992	71725	89773	90247
Haryana	259,598	255,669			22626	22481	4014	3725	38180	38116
Himachal Pradesh	132,497	130,566					3891	3891	2499	2528
J & K	126,116	123,787								
Karnataka	1177638	1167741			627914	630728	159303	159847	252620	253683
Kerala	1949984	1917984			57569	57584	32676	32526	18994	18950
Kolkata	589596	585303			121076	121109	68738	68613	50470	50287
Madhya Pradesh	700710	697791			272801	271280	19646	19641	15278	15204
Maharashtra	1354646	1341844			79392	79423	80377	78874	309941	310362
Mumbai			1842597	1839386	360585	360613	253097	252913	556062	554328
North East	116521	115264								
Orissa	267284	264688					3281	3295	7938	8214
Punjab	533406	522883			118999	119456	20113	20053	15969	16102
Rajasthan	559478	550307			49073	49123	19736	19625	11443	11506
Tamil Nadu (incl. Chennai)	1651421	1631443			556465	556475	131503	131129	112853	113263
U.P.(E)	370722	374421			64070	64085	34304	34270	13173	13219
U.P.(W)	334073	328978			22999	22863	7102	7042	10007	10044
West Bengal	304989	302252					1938	1908	4067	3826
<b>Total</b>	<b>13052142</b>	<b>12911461</b>	<b>3423889</b>	<b>3414145</b>	<b>3893335</b>	<b>3899096</b>	<b>1162106</b>	<b>1158314</b>	<b>1837025</b>	<b>1837122</b>
<b>Net Addition</b>		<b>-140681</b>		<b>-9744</b>		<b>5761</b>		<b>-3792</b>		<b>97</b>
<b>Rural Subscribers</b>	3507740	3455791	0	0	0	0	1731	1729	55006	55091

**Wireline Subscriber Base**

**Annexure-III (Contd.)**

Circle	Group										Net Addition
	Quadrant		Sistema		Vodafone		Aircel		Total		
	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	Jul-17	Aug-17	
Andhra Pradesh					13290	13290	4600	4638	1582577	1572528	-10049
Assam					2730	2730	1	1	148513	146599	-1914
Bihar					1920	1920	1	1	283845	279420	-4425
Delhi					30750	30720	16361	16189	3236195	3230732	-5463
Gujarat					9117	9001	1596	1596	1313675	1308434	-5241
Haryana									324418	319991	-4427
Himachal Pradesh					60	60			138947	137045	-1902
J & K									126116	123787	-2329
Karnataka					24330	24450	31932	32048	2273737	2268497	-5240
Kerala					1830	1800	2586	2616	2063639	2031460	-32179
Kolkata					5280	5490			835160	830802	-4358
Madhya Pradesh					570	570			1009005	1004486	-4519
Maharashtra					14634	14697	389	359	1839379	1825559	-13820
Mumbai					24740	25130	10565	10603	3047646	3042973	-4673
North East					150	120			116671	115384	-1287
Orissa					1320	1320			279823	277517	-2306
Punjab	265646	264566			1080	1080	31	31	955244	944171	-11073
Rajasthan			55258	54218	5700	5640	3580	3560	704268	693979	-10289
Tamil Nadu (incl. Chennai)					11550	11850			2463792	2444160	-19632
U.P.(E)					1980	2010	2	2	484251	488007	3756
U.P.(W)					4530	4020			378711	372947	-5764
West Bengal					60	60			311054	308046	-3008
<b>Total</b>	<b>265646</b>	<b>264566</b>	<b>55258</b>	<b>54218</b>	<b>155621</b>	<b>155958</b>	<b>71644</b>	<b>71644</b>	<b>23916666</b>	<b>23766524</b>	<b>-150142</b>
<b>Net Addition</b>		<b>-1080</b>		<b>-1040</b>		<b>337</b>		<b>0</b>		<b>-150142</b>	
<b>Rural Subscribers</b>	58342	58342	9799	9374	0	0	0	0	3632618	3580327	-52291

## 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.