

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 9<sup>th</sup> September, 2016

(www.trai.gov.in)

**Highlights of Telecom Subscription Data as on 30<sup>th</sup> June, 2016**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Total Telephone Subscribers</b> (Million)	<b>1035.12</b>	<b>24.74</b>	<b>1059.86</b>
Net Addition in June, 2016 (Million)	1.96	-0.13	1.83
Monthly Growth Rate	0.19%	-0.52%	0.17%
<b>Urban Telephone Subscribers</b> (Million)	<b>588.78</b>	<b>20.66</b>	<b>609.45</b>
Net Addition in June, 2016 (Million)	4.53	-0.06	4.47
Monthly Growth Rate	0.78%	-0.30%	0.74%
<b>Rural Telephone Subscribers</b> (Million)	<b>446.33</b>	<b>4.08</b>	<b>450.41</b>
Net Addition in June, 2016 (Million)	-2.57	-0.07	-2.64
Monthly Growth Rate	-0.57%	-1.63%	-0.58%
<b>Overall Tele-density*</b>	<b>81.26</b>	<b>1.94</b>	<b>83.20</b>
Urban Tele-density*	148.03	5.20	153.22
Rural Tele-density*	50.95	0.47	51.41
Share of Urban Subscribers	56.88%	83.51%	57.50%
Share of Rural Subscribers	43.12%	16.49%	42.50%
<b>Broadband Subscribers</b> (Million)	<b>142.48</b>	<b>17.32</b>	<b>159.80</b>

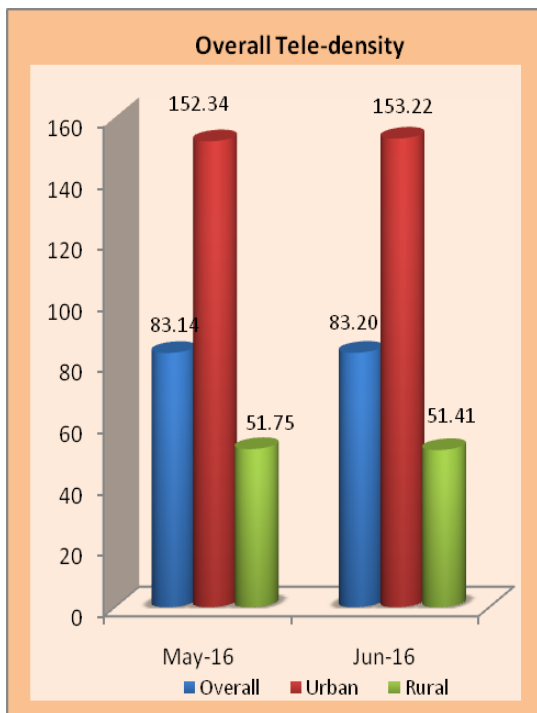
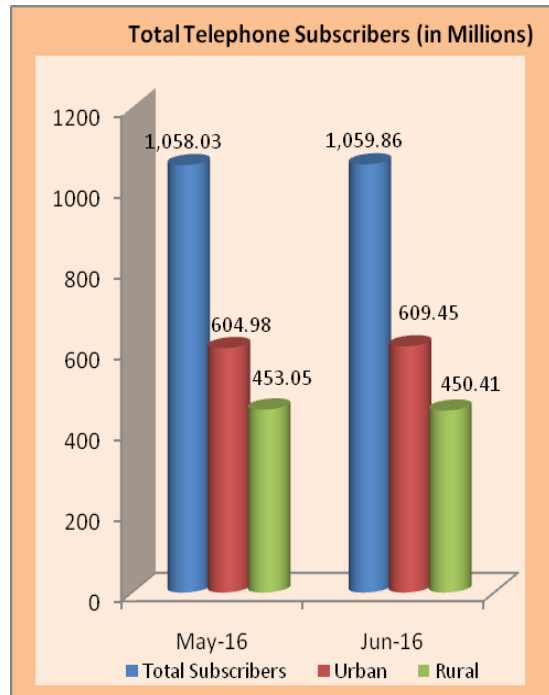
- ❖ In the month of June, 2016, 5.16 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 219.27 million at the end of May-16 to 224.43 million at the end of Jun-16, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR<sup>#</sup>) in June, 2016 was 915.12 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.

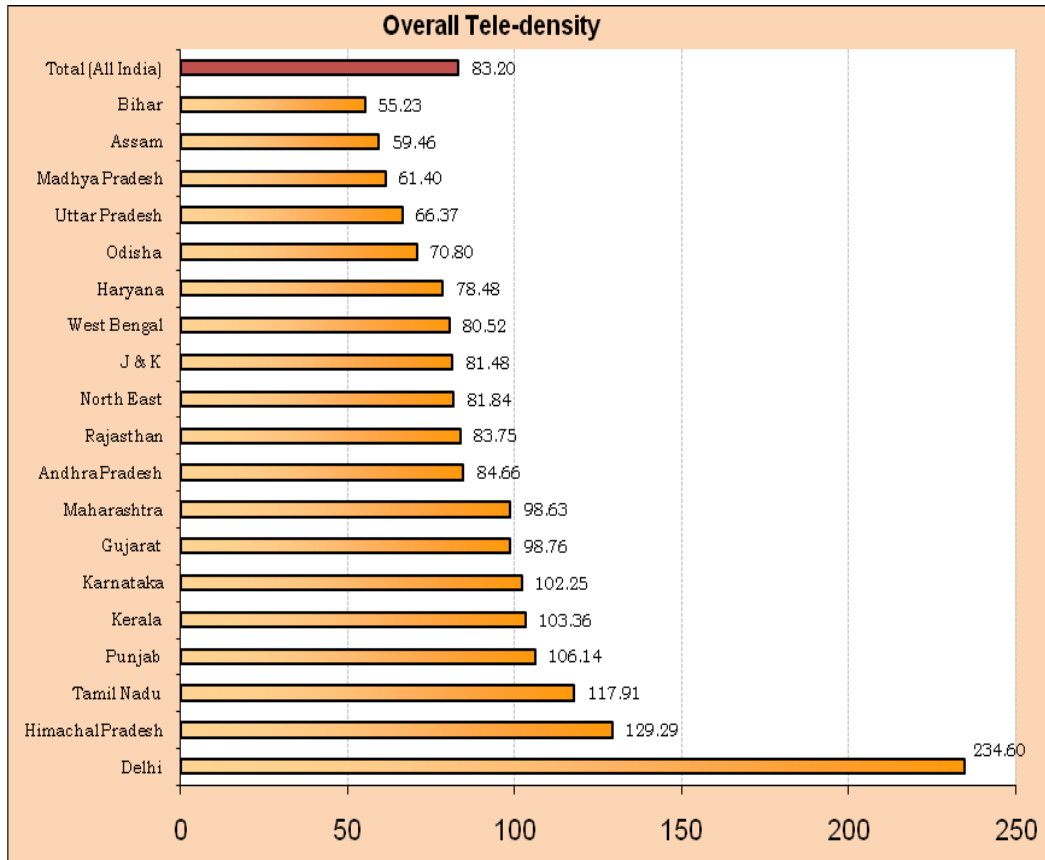
## I. Total Telephone Subscribers

The number of telephone subscribers in India increased from 1,058.03 million at the end of May-16 to 1,059.86 million at the end of Jun-16, thereby showing a monthly growth rate of 0.17%. The urban subscription increased from 604.98 million at the end of May-16 to 609.45 million at the end of Jun-16 whereas the rural subscription declined from 453.05 million to 450.41 million during the same period. The monthly growth rates of urban and rural subscription were 0.74% and -0.58% respectively during the month of Jun-16.



The overall Tele-density in India increased from 83.14 at the end of May-16 to 83.20 at the end of Jun-16. The Urban Tele-density increased from 152.34 at the end of May-16 to 153.22 at the end of Jun-16, whereas the Rural Tele-density declined from 51.75 at the end of May-16 to 51.41 at the end of Jun-16. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of Jun-16 was 57.50% and 42.50% respectively.

## Overall Tele-density (Circle/State Wise) – As on 30<sup>th</sup> June, 2016



### 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). West Bengal includes Kolkata, Maharashtra includes Mumbai and Tamil Nadu includes Chennai service area.

## II. Category-wise Growth in subscriber base

### Circle Category-wise Net Additions in Telephone Subscribers in the month of June, 2016

Circle Category	Net additions in the month of June, 2016		Telephone Subscriber base as on 30 <sup>th</sup> June, 2016	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-60,374	354,098	9,760,291	362,395,338
Circle B	-50,217	462,711	6,702,191	413,176,295
Circle C	-11,622	1,168,445	1,190,488	155,398,992
Metro	-8,040	-26,278	7,091,478	104,145,365
<b>All India</b>	<b>-130,253</b>	<b>1,958,976</b>	<b>24,744,448</b>	<b>1,035,115,990</b>

### Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of June, 2016

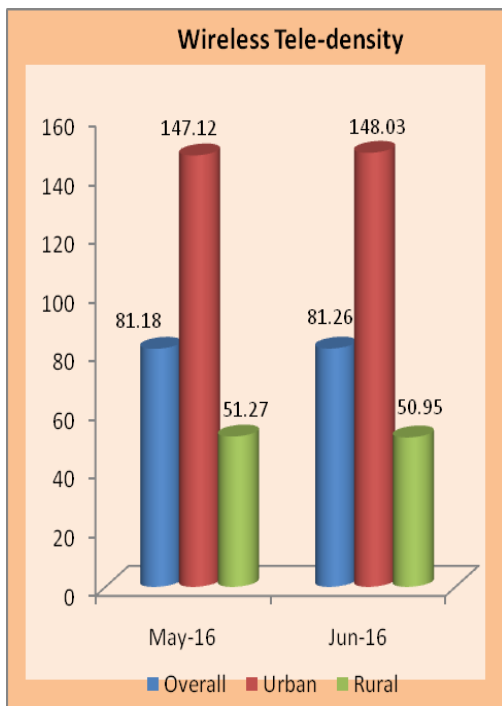
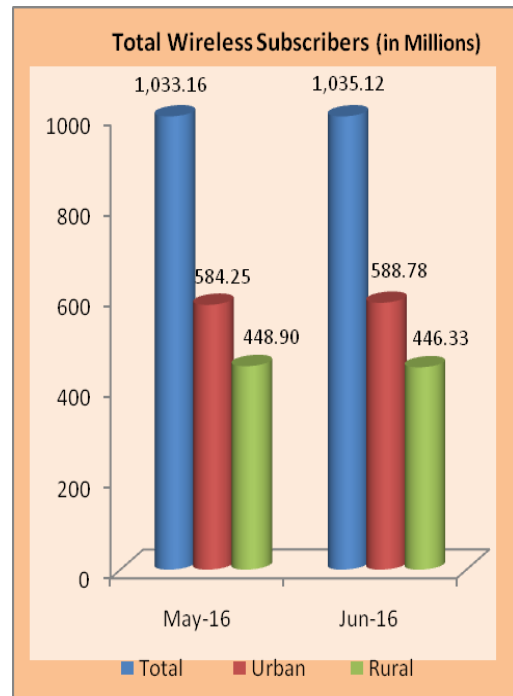
Circle Category	Monthly growth rate (%) (May-16 to Jun-16)		Yearly growth rate (%) (Jun-15 to Jun-16)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-0.61	0.10	-6.11	4.90
Circle B	-0.74	0.11	-8.00	6.31
Circle C	-0.97	0.76	-7.64	5.81
Metro	-0.11	-0.03	-1.26	4.31
<b>All India</b>	<b>-0.52</b>	<b>0.19</b>	<b>-5.38</b>	<b>5.54</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, the Circles of Category-C showed the maximum net addition and maximum monthly growth rate, whereas Metro circles showed the net decline in their wireless subscriber base during the month of Jun-16.
- In Wireline segment, Circles of Category-A showed the highest net decline and Circles of Category-C showed highest monthly decline rate in subscriber base during the month of Jun-16.

### III. Wireless Subscribers

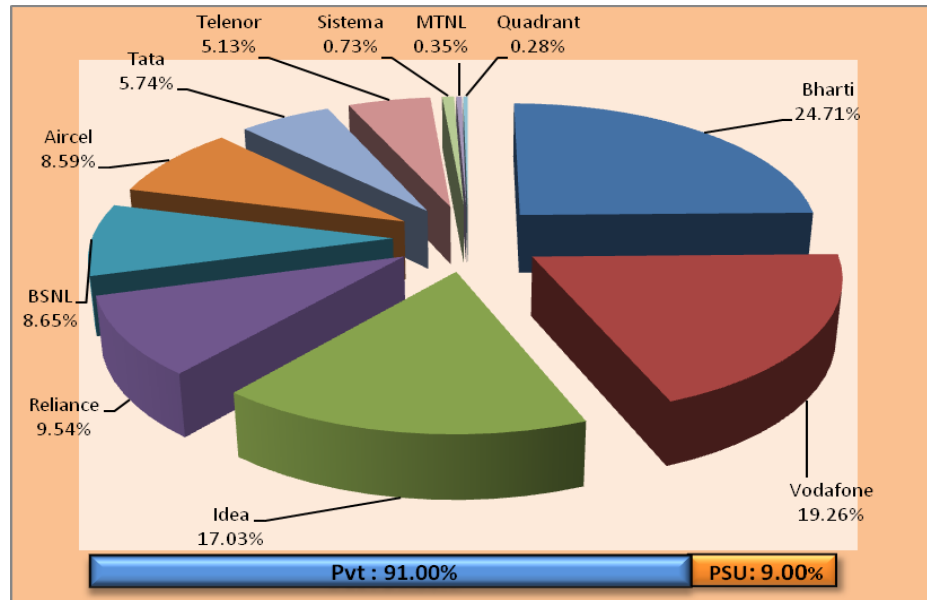
- Total wireless subscriber base increased from 1,033.16 million at the end of May-16 to 1,035.12 million at the end of Jun-16, thereby registering a monthly growth rate of 0.19%. The Wireless subscription in urban areas increased from 584.25 million at the end of May-16 to 588.78 million at the end of Jun-16, whereas wireless subscription in rural areas declined from 448.90 million to 446.33 million during the same period. The monthly growth rates of urban and rural wireless subscription were 0.78% and -0.57% respectively.



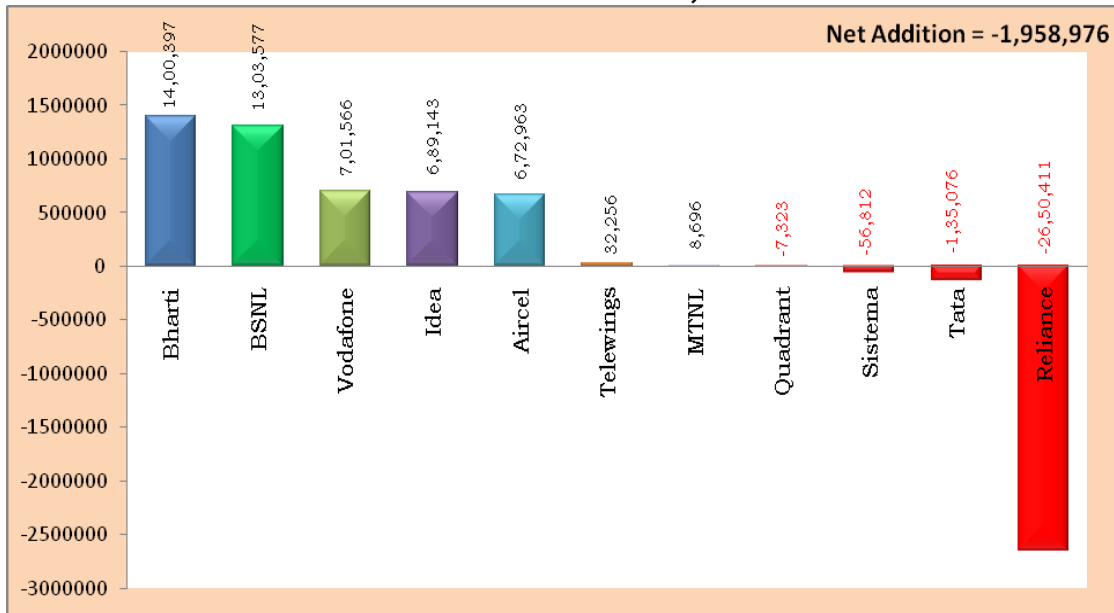
- The Wireless Tele-density in India increased from 81.18 at the end of May-16 to 81.26 at the end of Jun-16. The Urban Wireless Tele-density increased from 147.12 at the end of May-16 to 148.03 at the end of Jun-16, whereas Rural Wireless Tele-density declined from 51.27 to 50.95 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 56.88% and 43.12% respectively at the end of Jun-16. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 30<sup>th</sup> June, 2016, the private access service providers held 91.00% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.00%. 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 Subscriber base as on 30<sup>th</sup> June, 2016**



**Net Additions in Wireless Subscriber Bases of Access Service Providers in the Month of June, 2016**

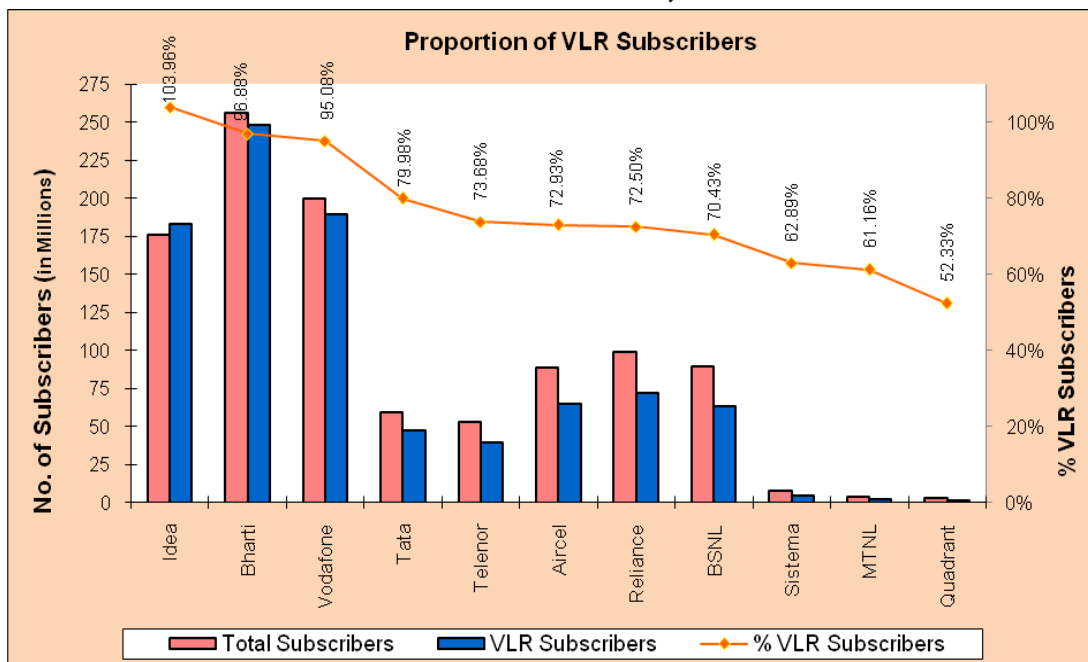


Note: M/s Videocon has closed their commercial services in all its service areas.

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

- Out of the total wireless subscriber base (1,035.12 million), 915.12 million wireless subscribers were active on the date of peak VLR in the month of Jun-16. The proportion of active wireless subscribers was approximately 88.41% 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 Jun-16 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

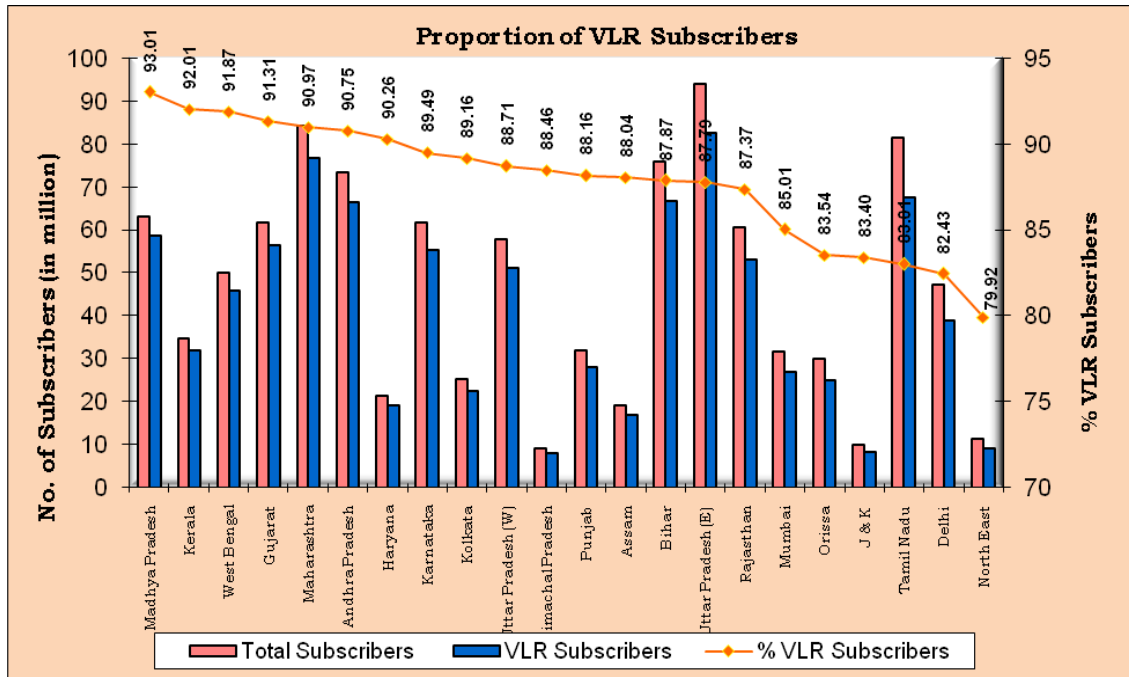
**Access Service Provider-wise Proportion of VLR Subscribers in the Month of June, 2016**



Note-

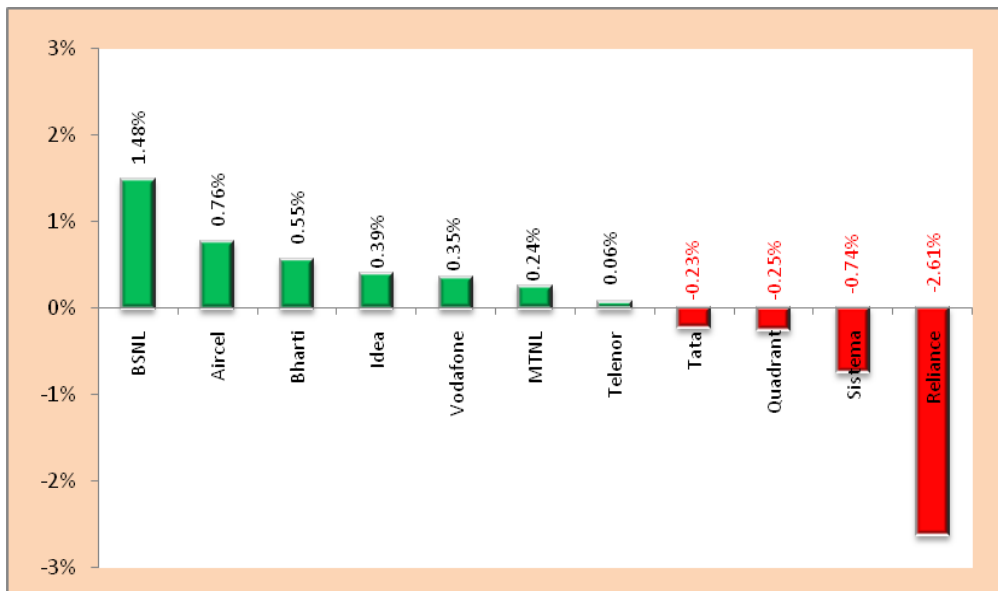
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

### Service Area wise proportion of VLR Subscribers in the Month of June, 2016



### V. Growth in Wireless Subscribers

#### Access Service Provider-wise Monthly Growth Rate of Wireless Subscriber base in the Month of June, 2016



Note: M/s Videocon has closed their commercial services in all its service areas.



### Service Area-wise Monthly Growth Rate of Wireless Subscriber base in the Month of June, 2016



- North-East service area recorded the highest growth rate in wireless subscribers during the month of Jun-16, whereas Andhra Pradesh service area showed maximum decline in wireless subscribers.

### VI. Mobile Number Portability (MNP)

- Intra-service area Mobile number portability (MNP) has been implemented 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.
- In the month of Jun-16, a total of 5.16 million requests were received for MNP. With this, the cumulative MNP requests increased from 219.27 million at the end of May-16 to 224.43 million at the end of Jun-16, 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 19.16 million) followed by Gujarat (about 16.83 million).

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 24.77 million) followed by Andhra Pradesh (about 21.05 million).

<b>Service Area Wise MNP Status at the end of June, 2016</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	8985599	Andhra Pradesh	21045129
Gujarat	16831538	Assam	1090753
Haryana	8719113	Bihar	8449194
Himachal Pradesh	794250	Karnataka	24772168
Jammu & Kashmir	85235	Kerala	6718946
Maharashtra	15607402	Kolkata	4944185
Mumbai	12304496	Madhya Pradesh	15392021
Punjab	7965251	North East	439885
Rajasthan	19164002	Orissa	4642099
Uttar Pradesh - East	10599497	Tamil Nadu	14056040
Uttar Pradesh - West	10187790	West Bengal	11633086
<b>Total</b>	<b>111,244,173</b>	<b>Total</b>	<b>113,183,506</b>
<b>Total (Zone-I + Zone-II)</b>			<b>224,427,679</b>
<b>Net Addition (in June, 2016)</b>			<b>5,161,679</b>

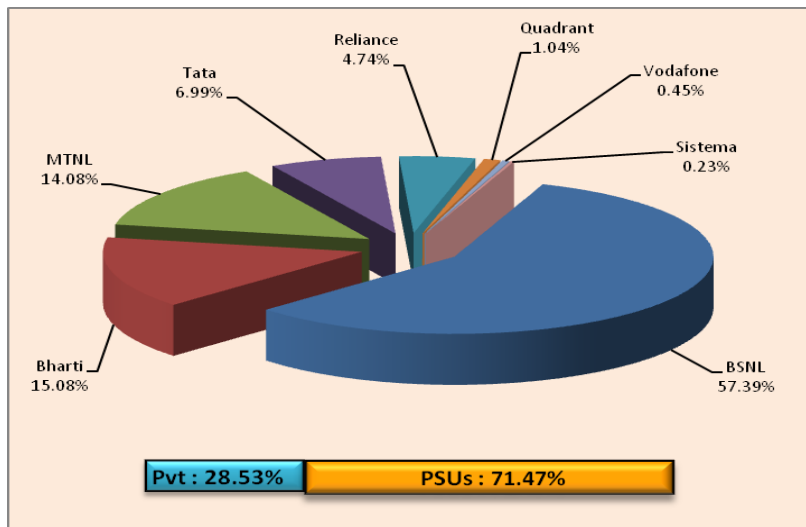
Note: For Zone-II, available MNP data for June, 2016 are provisional.

## VII. Wireline Subscribers

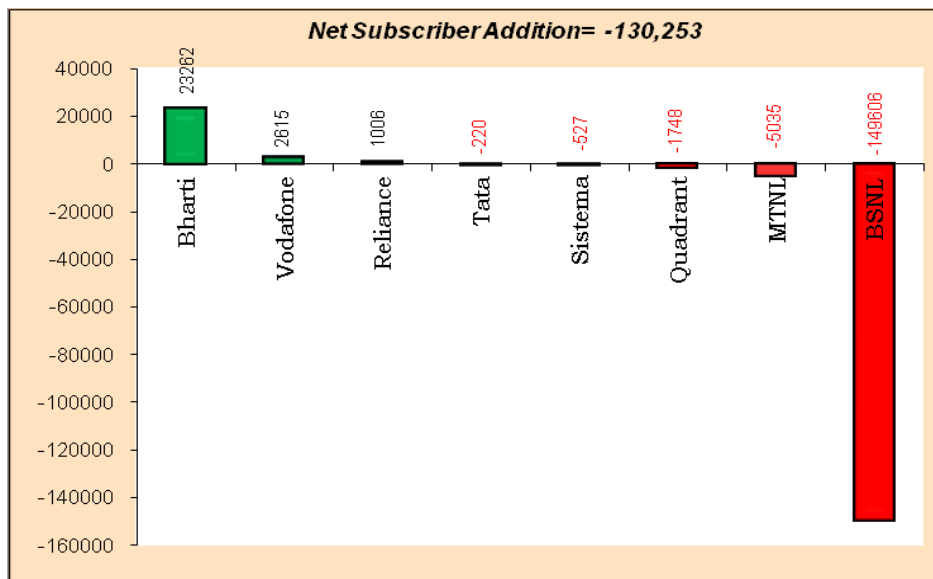
- Wireline subscriber base declined from 24.87 million at the end of May-16 to 24.74 million at the end of Jun-16. Net decline in the wireline subscriber base was 0.13 million with a monthly decline rate of 0.52%. The share of urban and rural subscribers in total wireline subscribers was 83.51% and 16.49% respectively at the end of Jun-16.
- The Overall Wireline Tele-density declined from 1.95 at the end of May-16 to 1.94 at the end of Jun-16. Urban Wireline Tele-density and Rural Wireline Tele-density were workout as 5.20 and 0.47 respectively.

- BSNL and MTNL, the two PSU access service providers, held 71.47% of the wireline market share. Detailed statistics of wireline subscriber base are available at **Annexure-III**.
- The graphical representation of service provider-wise market shares in the wireline segment and net additions in wireline subscriber bases in the month of Jun-16 are given below:

**Access Service Provider-wise Market Shares in term of Wireline Subscriber base as on 30<sup>th</sup> June, 2016**



**Access Service Provider-wise Net Additions/declines in Wireline Subscriber Base in the Month of June, 2016**



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

- As per the reports received from the service providers, the number of broadband subscribers increased from 159.76 Million at the end of May-16 to 159.80 million at the end of Jun-16 with a monthly growth rate of 0.03%. Segment-wise broadband subscribers and their monthly growth rates are as below:

### Segment-wise Broadband Subscriber base and Monthly Growth Rates in the month of June, 2016

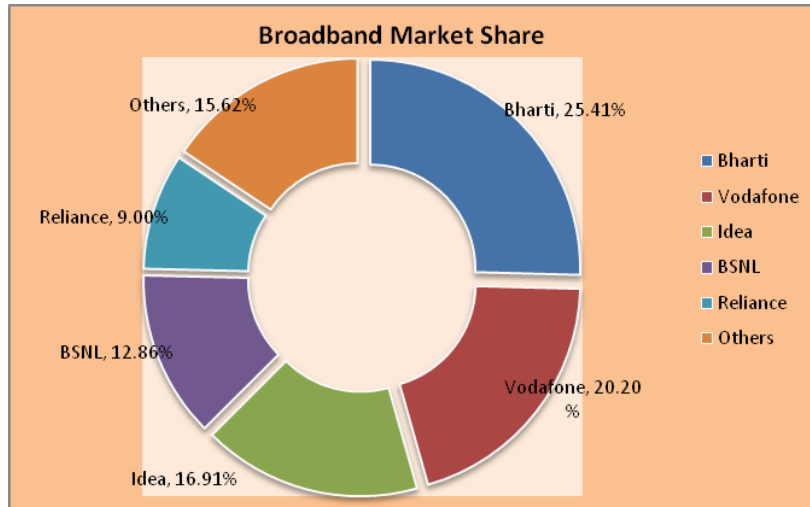
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of Jun-16
	As on 31 <sup>st</sup> May, 2016	As on 30 <sup>th</sup> June, 2016	
Wired subscribers	17.16	17.32	0.94%
Mobile devices users (Phones and dongles)	142.06	141.94	-0.09%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.54	0.55	0.83%
<b>Total</b>	<b>159.76</b>	<b>159.80</b>	<b>0.03%</b>

- Top five service providers constituted 84.38% market share of the total broadband subscribers at the end of Jun-16. These service providers were Bharti Airtel (40.61 million), Vodafone (32.28 million), Idea Cellular (27.02 million), BSNL (20.56 million) and Reliance Communications Group (14.38 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 30.06.2016**



- As on 30<sup>th</sup> June, 2016, the top five Wired Broadband Service providers were BSNL (9.88 million), Bharti Airtel (1.82 million), MTNL (1.10 million), Atria Convergence Technologies (1.02 million) and YOU Broadband (0.56 million).
- As on 30<sup>th</sup> June, 2016, the top five Wireless Broadband Service providers were Bharti Airtel (38.79 million), Vodafone (32.27 million), Idea Cellular (27.02 million), Reliance Communications Group (14.26 million) and BSNL (10.68 million).

Contact details in case of any clarification:

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Authorized to issue:

**(Vinod Kotwal)**  
**Advisor (F&EA)**

## Wireless Subscriber Base

Annexure-I

Circle	Group											
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel	
	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16
Andhra Pradesh	23726881	23949999	5294842	4395890	6869479	6894398	4674820	4617561	15518775	15661659	2690406	2701875
Assam	6086610	6106187	1399677	1417819	3738897	3767696			1155241	1145170	5354792	5432338
Bihar	28928011	29003028	4602257	4426592	9499126	9496221	1678217	1683460	11162653	11001449	7194973	7249253
Delhi	11228186	11307411	8070922	7796699	10087105	10202478	2134686	2074731	6086250	6143964	6422280	6458607
Gujarat	8567520	8600721	6273937	6229699	19319206	19372544	2894615	2934926	12054249	12072340	17063	17063
Haryana	3196199	3248189	1648137	1626025	5488186	5536474	2959012	2997079	4780487	4810980	3092	3092
Himachal Pradesh	2876188	2886253	1617536	1615994	722037	736466	66725	66034	810187	813623	1100300	1106961
J & K	3352868	3363404	942990	973220	1048210	1056570			655992	664262	2554562	2633105
Karnataka	20951030	21047626	5835239	5901513	7635491	7679607	7212571	7253077	8473157	8510255	3166265	3191048
Kerala	4392891	4396649	2146203	2180340	7515912	7548548	1564027	1552363	10505457	10559627	308609	321701
Kolkata	4656240	4702043	4879041	4768741	5429941	5460570	2771747	2788784	2065028	2087940	4146480	4163448
Madhya Pradesh	13065774	13161158	11632019	11126401	7005881	7014078	5169348	5188372	21758808	21902610	20694	20694
Maharashtra	13474068	13483912	5672807	5276913	18416241	18505027	6343372	6347548	23518976	23774648	2631698	2656480
Mumbai	5762769	5863284	5774205	5568930	8651415	8727088	3187188	3133163	4106103	4161802	2878087	2899955
North East	3885136	3925056	398967	412385	1547665	1578990			493506	495176	3213662	3335036
Orissa	10568965	10645162	1871486	2014356	4186494	4161934	2209617	2203407	1740084	1761959	4658881	4672837
Punjab	7984779	8037799	1627032	1613559	5108370	5147562	2705362	2728206	6459693	6485668	1080736	1105683
Rajasthan	19578681	19643122	6607193	6788415	12099976	12027918	1538597	1521215	7646989	7570599	6485305	6524060
Tamil Nadu (incl. Chennai)	17386619	17579650	6472068	6566492	15545968	15624762	4566088	4515852	5732885	5823707	21714409	21749425
U.P.(E)	21346116	21380650	9767873	9321489	19428672	19427245	3973399	3935817	10927697	10795912	7003282	7042456
U.P.(W)	8387936	8389295	5888002	5677586	11493205	11432149	3422610	3401996	14406368	14525071	725738	731978
West Bengal	14930786	15014052	2937633	3010597	17844469	17985187	437453	430787	5486424	5465731	4889912	4917094
<b>Total</b>	<b>254334253</b>	<b>255734650</b>	<b>101360066</b>	<b>98709655</b>	<b>198681946</b>	<b>199383512</b>	<b>59509454</b>	<b>59374378</b>	<b>175545009</b>	<b>176234152</b>	<b>88261226</b>	<b>88934189</b>
<b>Net Addition</b>		<b>1400397</b>		<b>-2650411</b>		<b>701566</b>		<b>-135076</b>		<b>689143</b>		<b>672963</b>

## Wireless Subscriber Base

Annexure-I (contd.)

Circle	Group												Net Addition
	BSNL		MTNL		Telenor		Sistema		Quadrant		Total		
	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	
Andhra Pradesh	9555139	9595521			5582554	5510192					73912896	73327095	-585801
Assam	1328206	1337098									19063423	19206308	142885
Bihar	3346768	3517361			9251426	9564596					75663431	75941960	278529
Delhi			2318569	2319473			935582	925438			47283580	47228801	-54779
Gujarat	3746891	3818449			8423671	8417351	209602	208084			61506754	61671177	164423
Haryana	3079785	3087176									21154898	21309015	154117
Himachal Pradesh	1774003	1810061									8966976	9035392	68416
J & K	1319945	1334011									9874567	10024572	150005
Karnataka	7033329	7025276					1117964	1109823			61425046	61718225	293179
Kerala	7790572	7911502					355232	334215			34578903	34804945	226042
Kolkata	786792	792179					529849	527667			25265118	25291372	26254
Madhya Pradesh	4446851	4546131									63099375	62959444	-139931
Maharashtra	5985274	6050558			8225845	8203761					84268281	84298847	30566
Mumbai			1263178	1270970							31622945	31625192	2247
North East	1566834	1584435									11105770	11331078	225308
Orissa	4320853	4400027									29556380	29859682	303302
Punjab	3728675	3811093							2940617	2933294	31635264	31862864	227600
Rajasthan	4264833	4390551					2117213	2125520			60338787	60591400	252613
Tamil Nadu (incl. Chennai)	8773121	8782953					737105	737153			80928263	81379994	451731
U.P.(E)	9283782	9492188			12775465	12595116					94506286	93990873	-515413
U.P.(W)	4443064	4567723			8799751	8799952	149751	149871			57716425	57675621	-40804
West Bengal	1664222	1688223					1492747	1470462			49683646	49982133	298487
<b>Total</b>	<b>88238939</b>	<b>89542516</b>	<b>3581747</b>	<b>3590443</b>	<b>53058712</b>	<b>53090968</b>	<b>7645045</b>	<b>7588233</b>	<b>2940617</b>	<b>2933294</b>	1033157014	1035115990	<b>1958976</b>
<b>Net Addition</b>		<b>1303577</b>		<b>8696</b>		<b>32256</b>		<b>-56812</b>		<b>-7323</b>		<b>1958976</b>	

**Proportion of VLR on the date of Peak VLR in the month of Jun-16 (%)**

**Annexure-II**

Circle	Aircel	Bharti	BSNL	Quadrant	Idea	MTNL	Reliance	Sistema	Tata	Telenor	Vodafone	Total
<b>Andhra Pradesh</b>	60.79	99.20	73.01		104.85		83.01		87.83	76.21	84.33	<b>90.75</b>
<b>Assam</b>	88.53	95.72	82.03		97.94		4.55				105.41	<b>88.04</b>
<b>Bihar</b>	88.08	96.15	71.34		103.31		8.32		71.71	72.62	105.94	<b>87.87</b>
<b>Delhi</b>	64.42	90.02			93.69	54.73	67.68	49.52	55.89		104.61	<b>82.43</b>
<b>Gujarat</b>	2878.44	96.04	74.16		106.38		86.94	63.44	74.34	70.17	94.21	<b>91.31</b>
<b>Haryana</b>	0.45	96.74	60.05		102.59		99.04		80.48		95.34	<b>90.26</b>
<b>Himachal Pradesh</b>	55.69	96.16	73.02		114.70		98.93		42.49		97.62	<b>88.46</b>
<b>J &amp; K</b>	87.13	88.91	72.25		98.41		57.95				84.69	<b>83.40</b>
<b>Karnataka</b>	61.76	99.59	62.55		105.41		77.68	69.05	89.50		92.35	<b>89.49</b>
<b>Kerala</b>	75.52	95.07	80.17		108.36		59.57	65.75	86.53		92.11	<b>92.01</b>
<b>Kolkata</b>	73.14	99.04	89.61		94.37		84.32	92.18	83.07		97.86	<b>89.16</b>
<b>Madhya Pradesh</b>	1.05	96.07	74.95		107.15		86.38		75.38		78.65	<b>93.01</b>
<b>Maharashtra</b>	57.74	95.39	76.06		104.50		72.63		81.23	73.54	96.31	<b>90.97</b>
<b>Mumbai</b>	57.36	96.52			92.63	72.89	81.07		80.17		88.85	<b>85.01</b>
<b>North East</b>	66.64	95.66	68.47		100.01		4.92				93.60	<b>79.92</b>
<b>Orissa</b>	67.84	97.07	76.10		100.65		11.40		81.03		103.42	<b>83.54</b>
<b>Punjab</b>	61.86	99.90	70.57	52.33	105.11		99.13		74.86		91.17	<b>88.16</b>
<b>Rajasthan</b>	53.23	95.50	75.98		103.52		85.10	59.31	110.76		89.87	<b>87.37</b>
<b>Tamil Nadu (incl. Chennai)</b>	70.69	99.02	65.57		96.17		72.17	53.43	74.89		95.34	<b>83.01</b>
<b>U.P. (E)</b>	84.82	98.15	57.86		108.93		80.88		75.01	75.54	94.17	<b>87.79</b>
<b>U.P. (W)</b>	104.08	96.12	61.97		99.92		87.18	62.22	77.22	74.05	94.54	<b>88.71</b>
<b>West Bengal</b>	88.30	97.31	88.22		106.57		10.02	65.42	55.96		100.89	<b>91.87</b>
<b>Total</b>	<b>72.93</b>	<b>96.88</b>	<b>70.43</b>	<b>52.33</b>	<b>103.96</b>	<b>61.16</b>	<b>72.50</b>	<b>62.89</b>	<b>79.98</b>	<b>73.68</b>	<b>95.08</b>	<b>88.41</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																Net Addition		
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant		Sistema		Vodafone			Total	
	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16	May-16	Jun-16		May-16	Jun-16
Andhra Pradesh	1283465	1266334			148614	150408	75871	75875	166462	169040					10,500	10,530	1684912	1672187	-12725
Assam	156997	156019													1,860	1,890	158857	157909	-948
Bihar	309155	305941					6,849	6,824	13,165	13,190					1110	1110	330279	327065	-3214
Delhi			1615626	1615253	1235216	1239478	174687	174616	132477	132550					21,600	22,290	3179606	3184187	4581
Gujarat	1128323	1117336			74529	75381	74637	74575	87424	86541					5,220	5,280	1370133	1359113	-11020
Haryana	2,96,893	2,94,316			21176	21820	4397	4397	37647	36746					30	30	360143	357309	-2834
Himachal Pradesh	1,57,601	1,54,863					4126	4126	2708	2677					30	30	164465	161696	-2769
J & K	1,28,477	1,28,187															128477	128187	-290
Karnataka	1269633	1260874			599671	603903	150672	151836	207976	208818					17,580	17,880	2245532	2243311	-2221
Kerala	2137903	2112431			56923	57004	33598	33187	18480	18636					1560	1530	2248464	2222788	-25676
Kolkata	649535	641246			117596	117877	69179	69160	49576	48422					4560	4860	890446	881565	-8881
Madhya Pradesh	729749	726579			265328	267937	19994	19736	18067	16732					390	390	1033528	1031374	-2154
Maharashtra	1474537	1459104			75209	75345	82786	82730	284669	285088					11,640	12,120	1928841	1914387	-14454
Mumbai			1873297	1868635	350685	351227	252298	253122	535524	534595					17662	18147	3029466	3025726	-3740
North East	123270	122922													150	150	123420	123072	-348
Orissa	284183	280002					3290	3290	8179	8277					960	990	296612	292559	-4053
Punjab	641545	635124			111786	113381	21284	21284	16763	16890	258629	256881			930	930	1050937	1044490	-6447
Rajasthan	638690	635392			46910	47239	20764	20734	11801	11826			58642	58115	1,830	1,890	778637	775196	-3441
Tamil Nadu (incl. Chennai)	1819425	1793697			519984	524915	134211	134173	109137	109958					8490	8550	2591247	2571293	-19954
U.P.(E)	387957	387814			62286	62930	35097	35081	15313	15202					1,080	1,200	501733	502227	494
U.P.(W)	379420	376586			22292	22622	7105	7105	10081	10043					480	480	419378	416836	-2542
West Bengal	353699	346084					1934	1934	3895	3893					60	60	359588	351971	-7617
<b>Total</b>	<b>14350457</b>	<b>14200851</b>	<b>3488923</b>	<b>3483888</b>	<b>3708205</b>	<b>3731467</b>	<b>1172779</b>	<b>1173785</b>	<b>1729344</b>	<b>1729124</b>	<b>258629</b>	<b>256881</b>	<b>58642</b>	<b>58115</b>	<b>107722</b>	<b>110337</b>	<b>24874701</b>	<b>24744448</b>	<b>-130253</b>
<b>Net Addition</b>		<b>-149606</b>		<b>-5035</b>		<b>23262</b>		<b>1006</b>		<b>-220</b>		<b>-1748</b>		<b>-527</b>		<b>2615</b>		<b>-130253</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 and numbers available in VLR.

The VLR data calculated here is on the basis of active subscribers in VLR on the date of Peak 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.