

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 3<sup>rd</sup> July 2013

(www.trai.gov.in)

**Highlights on Telecom Subscription Data as on 30<sup>th</sup> April 2013**

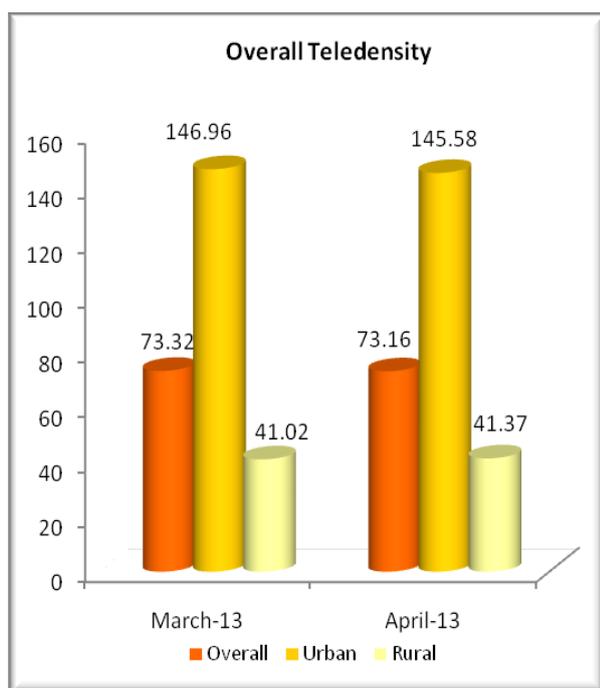
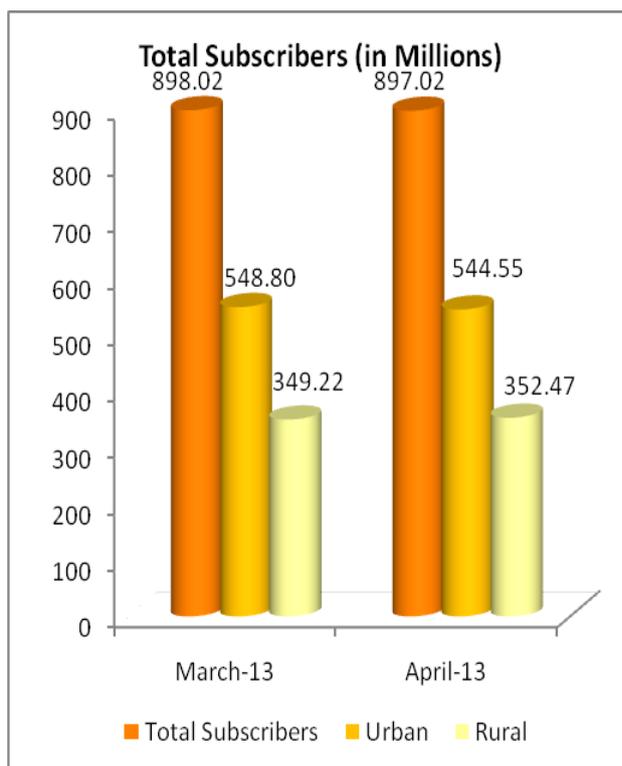
Particulars	Wireless	Wireline	Total Wireless + Wireline
<b>Total Subscribers</b> (Millions)	<b>867.02</b>	<b>29.99</b>	<b>897.02</b>
Total Net Monthly Addition (Millions)	-0.78	-0.22	-1.00
Monthly Growth (%)	-0.09%	-0.73%	-0.11%
<b>Urban Subscribers</b> (Millions)	<b>521.18</b>	<b>23.37</b>	<b>544.55</b>
Urban Subscribers Net Monthly Addition (Millions)	-4.12	-0.13	-4.25
Monthly Growth (%)	-0.79%	-0.54%	-0.77%
<b>Rural Subscribers</b> (Millions)	<b>345.85</b>	<b>6.62</b>	<b>352.47</b>
Rural Subscribers Net Monthly Addition (Millions)	3.34	-0.09	3.25
Monthly Growth (%)	0.98%	-1.38%	0.93%
<b>Overall Teledensity*</b>	<b>70.71</b>	<b>2.45</b>	<b>73.16</b>
Urban Teledensity*	139.33	6.25	145.58
Rural Teledensity*	40.59	0.78	41.37
Share of Urban Subscribers	<b>60.11%</b>	<b>77.93%</b>	<b>60.71%</b>
Share of Rural Subscribers	<b>39.89%</b>	<b>22.07%</b>	<b>39.29%</b>

- ❖ Mobile Number Portability requests increased from 89.70 million subscribers at the end of March 2013 to 91.73 million at the end of April 2013. In the month of April 2013 alone, 2.03 million requests have been made for MNP.
- ❖ Active wireless subscribers on the date of Peak VLR in April 2013 are 724.52 million, 83.56% of the total subscribers.
- ❖ Broadband subscription reached 15.09 million in April 2013 from 15.05 million in March 2013.

\* Based on the population projections from Census data published by the Office of Registrar General & Census Commissioner of India.

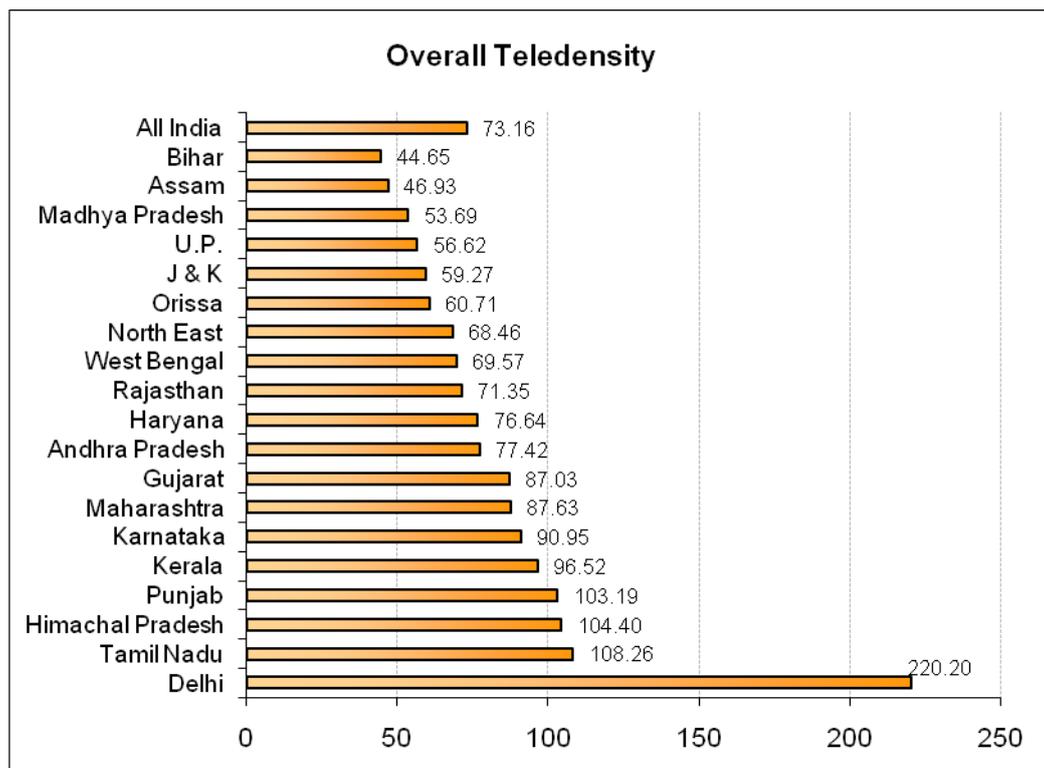
## I. Total Telephone Subscribers

- The number of telephone subscribers in India decreased to 897.02 million at the end of April, 2013 from 898.02 million at the end of March 2013, thereby showing a monthly growth rate of -0.11%. The share of urban subscribers has decreased to 60.71% from 61.11% whereas share of rural subscribers has increased from 38.89% to 39.29% in the month of April 2013. With this, the overall Teledensity in India decreased to 73.16 at the end of April, 2013 from 73.32 of the previous month.



- Subscription in the urban areas decreased from 548.80 million in February, 2013 to 544.55 million at the end of April, 2013. Subscription in rural areas increased from 349.22 million to 352.47 million during the same period. The monthly growth rate of urban and rural subscription is -0.77% and 0.93% respectively. The overall urban Teledensity has decreased from 146.96 to 145.58 and Rural Teledensity increased from 41.02 to 41.37.

## Overall Teledensity (Circle Wise)

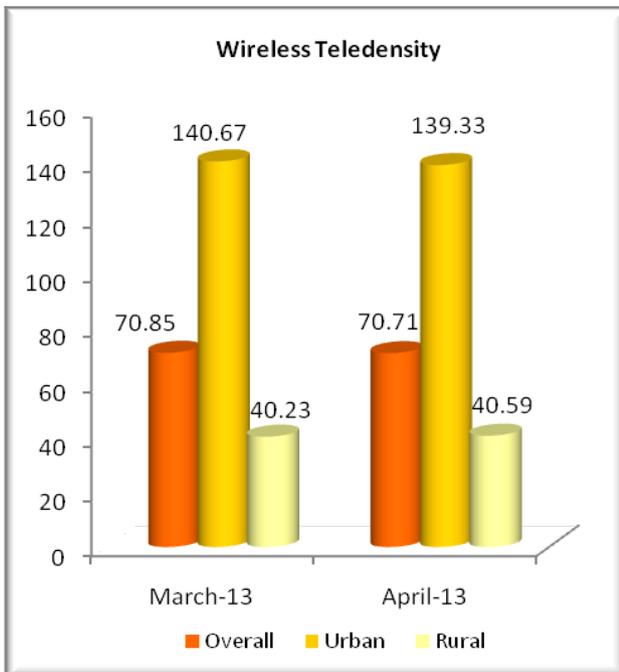
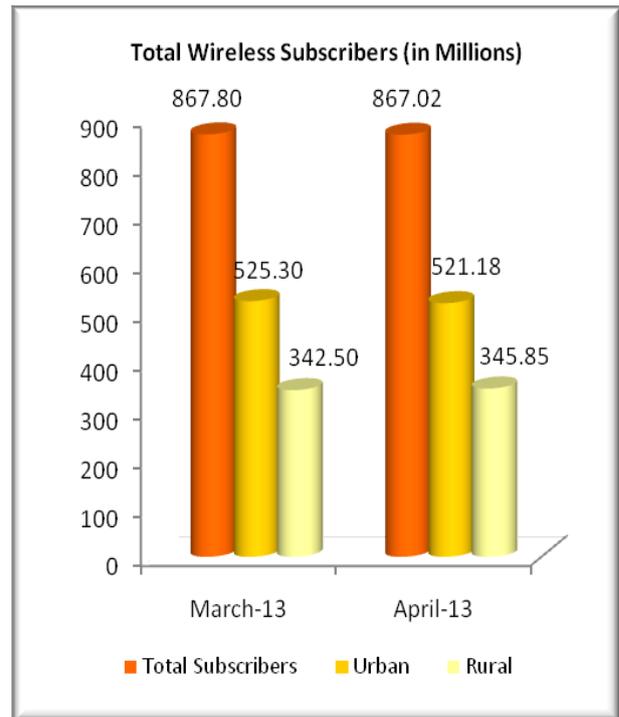


### Notes:

1. Population data/Projections are available state wise only.
2. Teledensity figures are derived from the subscriber data provided by the operators and the population projections published by the Office of the Registrar General & Census Commissioner, India.
3. Delhi Service area, apart from the State of Delhi, includes wireless subscribers of the areas served by the local exchanges of Ghaziabad & Noida (in UP) and Gurgaon & Faridabad (in Haryana). West Bengal service area includes Kolkata, Maharashtra includes Mumbai and Tamil Nadu includes Chennai

## II. Wireless Segment (GSM, CDMA & FWP)

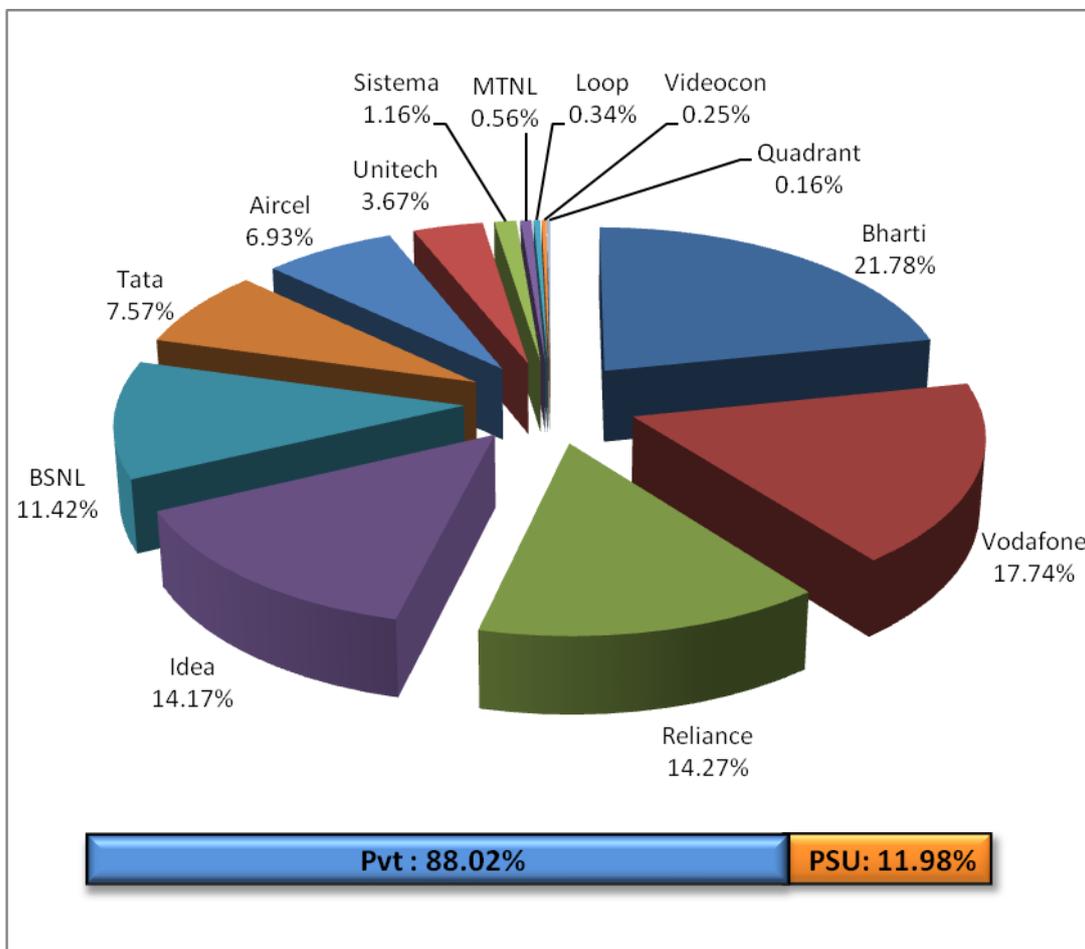
- Total wireless subscriber base decreased from 867.80 million in March 2013 to 867.02 million at the end of April 2013, registering a monthly growth of -0.09%. This decline is largely due to disconnections by some of the service providers. The share of urban wireless subscribers has decreased from 60.53% to 60.11% where as share of rural wireless subscribers has increased from 39.47% to 39.89%. The overall wireless Teledensity in India has reached 70.71 from 70.85 of previous month.



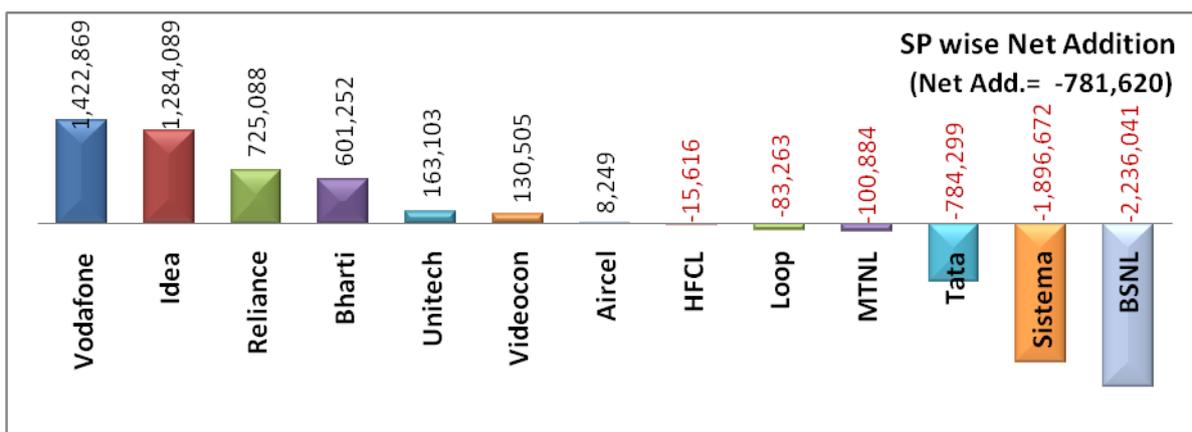
- Wireless subscription in urban areas decreased from 525.30 million in March 2013 to 521.18 million at the end of April 2013. The wireless subscription in rural areas increased from 342.50 million to 345.85 million during the same period. The urban wireless Teledensity has decreased from 140.67 to 139.33 and rural Teledensity has increased from 40.23 to 40.59. Detailed statistics is at Annexure I.

- Private operators hold 88.02% of the wireless market share (based on subscriber base) where as BSNL and MTNL, the two PSU operators hold only 11.98% market share. The graphical presentations of market shares and shares in net additions of all the service providers during the month of April, 2013 are given below:

**A. Service Provider wise Market Share as on 30<sup>th</sup> April, 2013.**



**B. Service Provider wise net subscriber addition during April 2013**

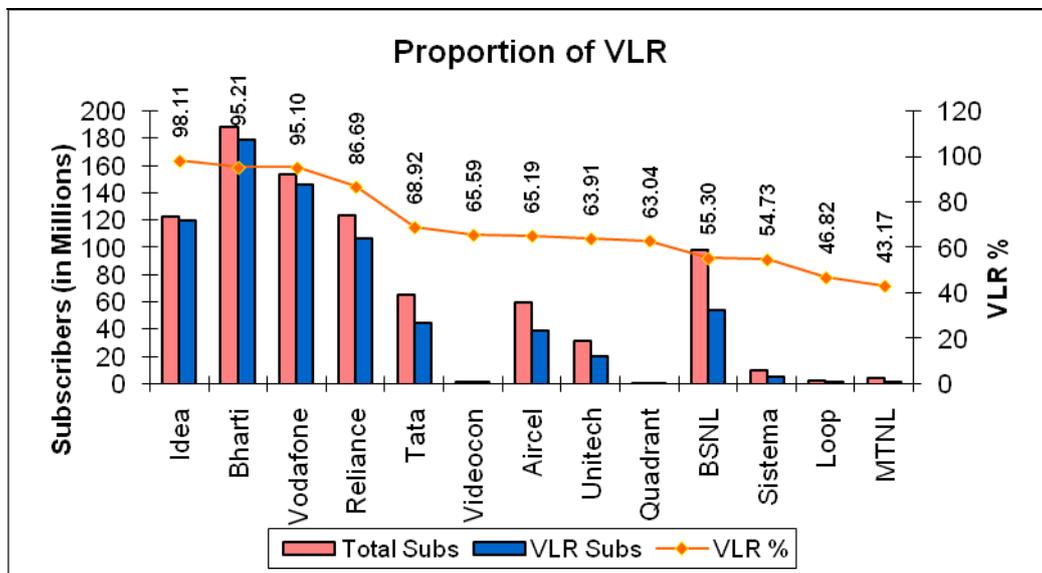


### III. VLR Data

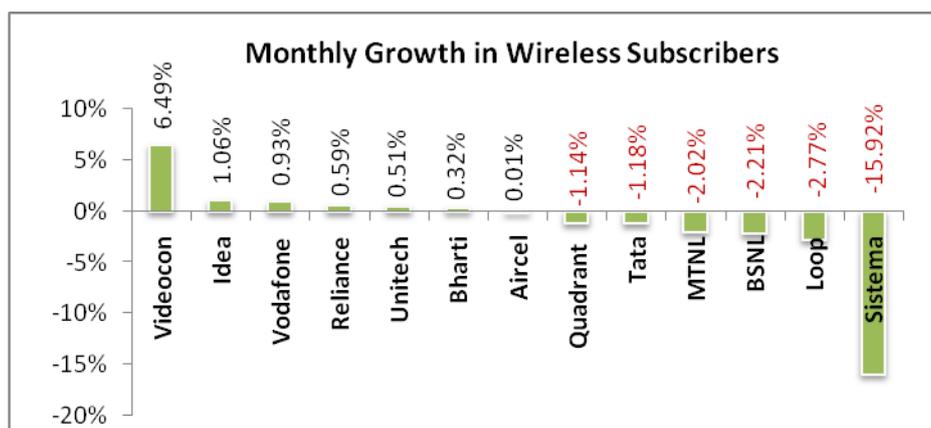
Out of the total 867.02 million wireless subscribers, 724.52\* million were active on the date of Peak VLR for the month of April 2013. The proportion of VLR subscribers is approximately 83.56% of the total wireless subscriber base reported by the service providers.

Service Provider wise, Idea leads the tally with 98.11% followed by Bharti (95.21%). Circle-wise, Maharashtra has the highest proportion of VLR subscribers with 88.96% followed by Madhya Pradesh (88.09%) and Assam (87.34%). TN (incl. Chennai) has the lowest proportion with 72.78%. The detailed statistics of proportionate VLR is at Annexure II & methodology used for reporting subscriber base/active subscribers is at Annexure IV.

#### A. Proportion of VLR subscribers (Service Provider wise)

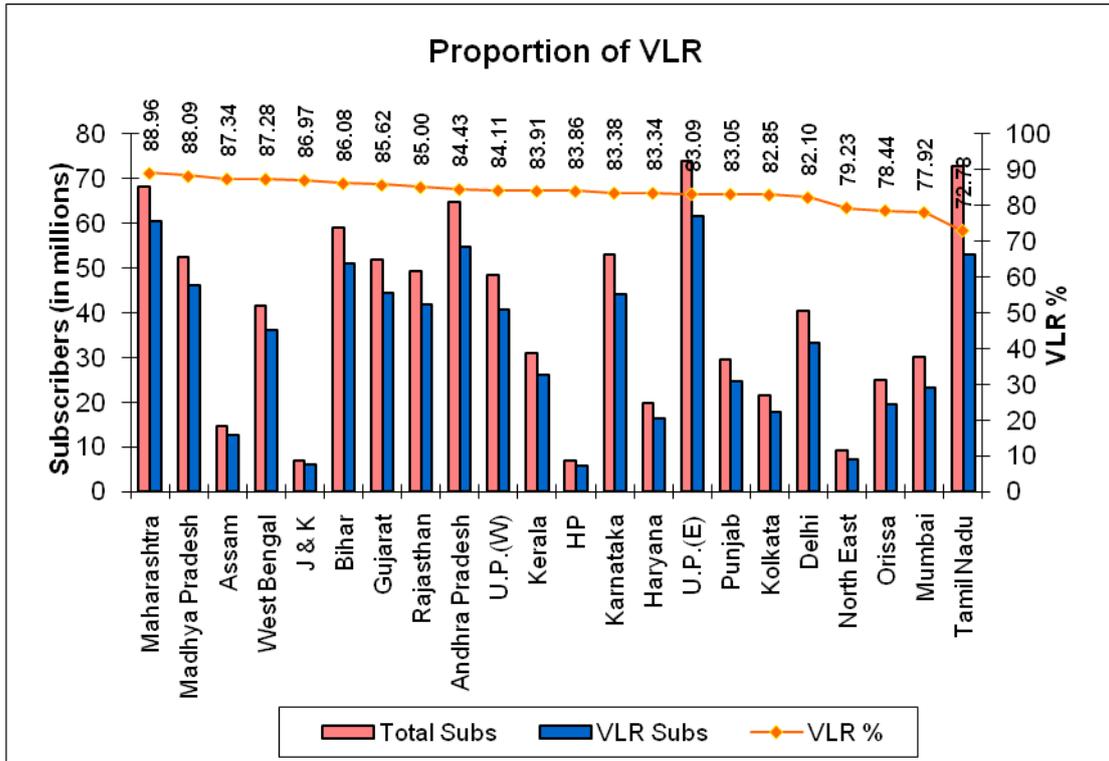


#### B. Service Provider wise growth in total subscribers (Mar.2013 – Apr.2013)

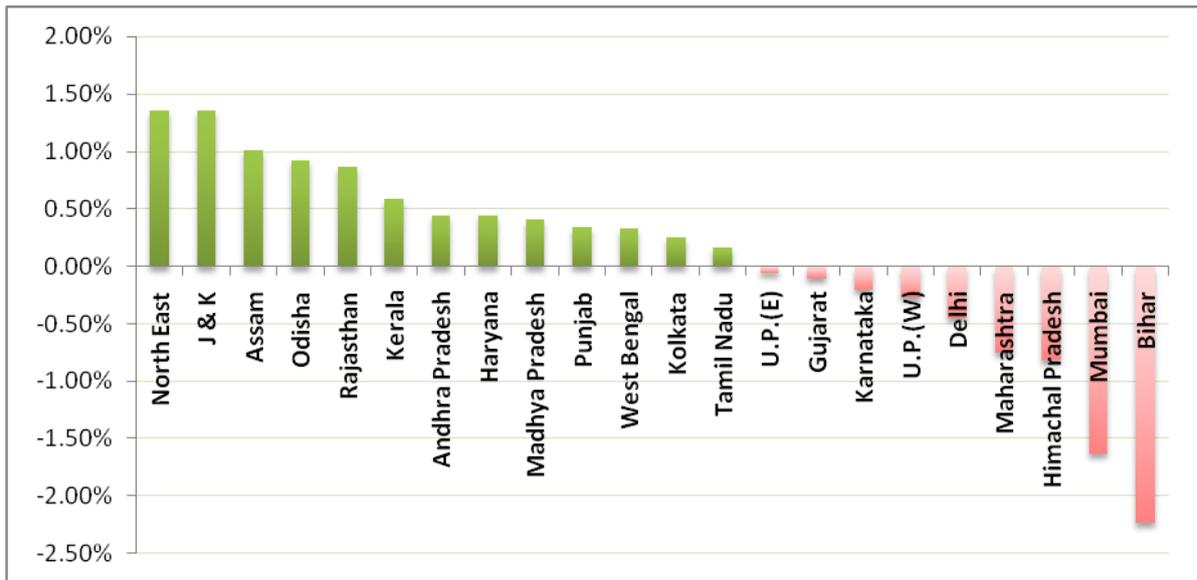


\* The total active VLR number excludes the CDMA VLR figure of M/s BSNL as the service provider has not provided the VLR figures of their total CDMA subscriber base of 2.61 million.

**C. Proportion of VLR subscribers (Service Area wise)**



**D. Service Area wise growth in total subscribers (Mar. 2013 – Apr. 2013)**



#### **IV. Mobile Number Portability**

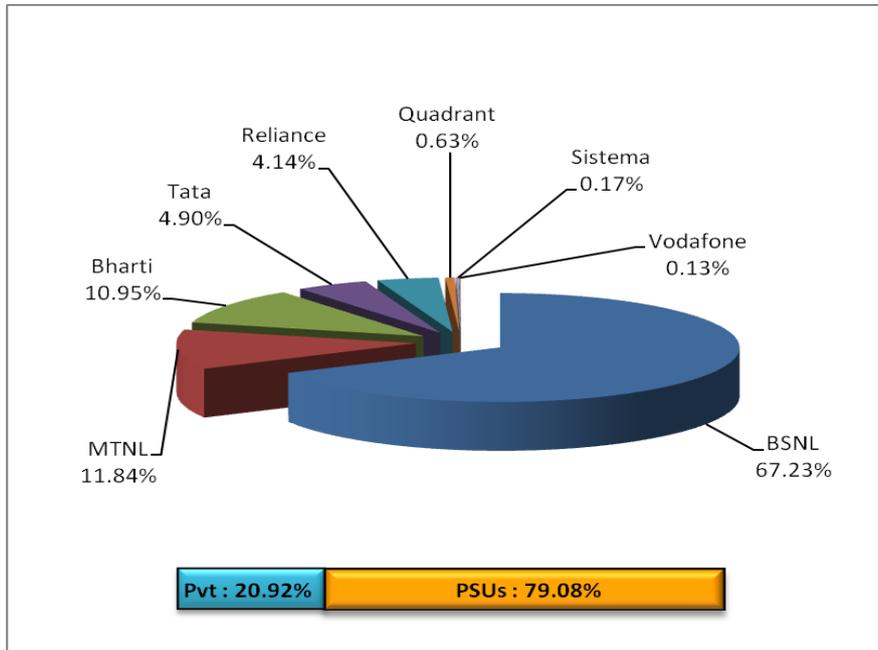
As per the data reported by the service providers, by the end of April 2013 about 91.73 million subscribers have submitted their requests to different service providers for porting their mobile number. In MNP Zone-I (Northern & Western India) maximum number of requests have been received in Rajasthan (8.80 million) followed by Gujarat (7.85 million) whereas in MNP Zone-II (Southern & Eastern) maximum number of requests have been received in Karnataka (10.90 million) followed by Andhra Pradesh Service area (8.30 million). In the month of April 2013, total number of subscribers who have submitted their request for MNP is 2.03 million. The status of MNP requests in various service areas is given below:

<b>Service Area Wise MNP Status at the end of April 2013</b>			
<b>Zone - 1</b>		<b>Zone - 2</b>	
<b>Service Area</b>	<b>Number of Porting Requests</b>	<b>Service Area</b>	<b>Number of Porting Requests</b>
Delhi	3077504	Andhra Pradesh	8295284
Gujarat	7849953	Assam	355237
Himachal Pradesh	335445	Bihar	1950066
Haryana	3327292	Karnataka	10890805
Jammu & Kashmir	15848	Kerala	3755047
Maharashtra	7525003	Kolkata	2035196
Mumbai	3453996	Madhya Pradesh	5402985
Punjab	3006649	North East	161719
Rajasthan	8801349	Orissa	2005640
Uttar Pradesh - East	5524268	Tamil Nadu	5365519
Uttar Pradesh - West	5322944	West Bengal	3271899
<b>Total</b>	<b>48,240,251</b>	<b>Total</b>	<b>43,489,307</b>
<b>Total (Zone-1 + Zone-2)</b>			<b>91,729,558</b>
<b>Net Addition (in April 2013)</b>			<b>2,032,978</b>

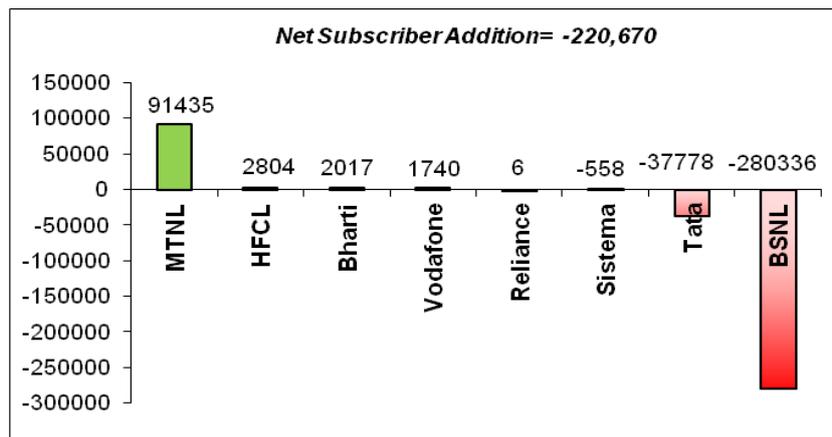
## v. Wireline Segment

Wireline subscriber base declined from 30.21 million at the end of March 2013 to 29.99 Million at the end of April 2013. Net reduction in wireline subscriber base was 0.22 million. The share of urban subscribers has increased from 77.78% to 77.93% where as share of rural subscribers has declined from 22.22% to 22.07%. The overall wireline Teledensity has marginally decreased from 2.47 in March 2013 to 2.45 in April 2013, with urban and rural Teledensity being 6.25 and 0.78 respectively. BSNL and MTNL, the two PSU operators hold 79.08% of the Wireline market share. Detailed statistics are at Annexure-III. The graphical presentation of market share of all service providers as on 30<sup>th</sup> April 2013 is given below:

### A. Service Provider wise Market Share as on 30<sup>th</sup> April 2013



### B. Wireline Service Provider wise Net addition during April 2013:



## **VI. Category wise Growth**

- As can be seen from the following tables, the Circles in Category B show the highest net addition in subscriber base and the highest rate of monthly growth in wireless segment. In wireline segment, Circles in Category B show the highest reduction and Circles in Category C show the highest rate of decline in subscriber base from March 2013 to April 2013.

### **Category wise Net Additions and subscriber base**

Category	Net Additions during the month of April, 2013		Subscriber Base as on 30 <sup>th</sup> April, 2013	
	Wireline	Wireless	Wireline	Wireless
Circle A	-102145	-281405	11948833	309503127
Circle B	-148775	947760	9291762	344795804
Circle C	-31679	-822913	1598636	121289037
Metro	61929	-625062	7153841	91433995
<b>All India</b>	<b>-220670</b>	<b>-781620</b>	<b>29993072</b>	<b>867021963</b>

### **Category-wise Growth Rate in Access Service**

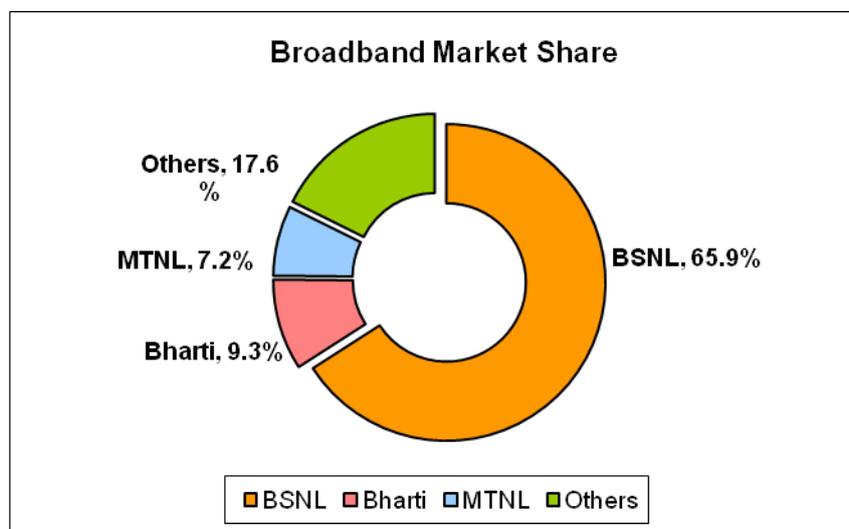
Category	Monthly Rate of Growth (Mar-2013 to Apr-2013)		Yearly rate of growth (Apr-2012 to Apr-2013)	
	Wireline	Wireless	Wireline	Wireless
Circle A	-0.85%	-0.09%	-5.25%	-4.82%
Circle B	-1.58%	0.28%	-8.89%	-6.11%
Circle C	-1.94%	-0.67%	-19.56%	-3.14%
Metro	0.87%	-0.68%	0.83%	-11.56%
<b>All India</b>	<b>-0.73%</b>	<b>-0.09%</b>	<b>-5.96%</b>	<b>-5.86%</b>

- Metros indicate data for Delhi, Mumbai & Kolkata. Data for Chennai service area has been included in Circle A, as part of TN

## VII. Broadband ( $\geq 256$ Kbps download)

Total Broadband subscriber base has increased from 15.05 million at the end of March 2013 to 15.09 million at the end of April 2013, there by showing a monthly growth of 0.29%. Yearly growth in broadband subscribers is 8.21% during the last one year (April 2012 to April 2013).

As on 30<sup>th</sup> April 2013, there are 162 Internet Service Providers (ISPs) which are providing broadband services in the country. Out of these, 119 ISPs (having 99.26% market share) have provided broadband subscription data for the month of April 2013, for the rest of the ISPs data from previous month has been retained. Top five ISPs in terms of market share (based on subscriber base) are: BSNL (9.94 million), Bharti Airtel (1.40 million), MTNL (1.09 million), Hathway (0.36 million) and You Broadband (0.31 million).



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**Note:** Information in this Press Release is based on the data provided by the Service Providers.

## Wireless Subscriber Base

Annexure-I

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Circle	Group													
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel		BSNL	
	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13
Andhra Pradesh	18251864	18320756	7019993	7046557	5865618	5890418	6585826	6509797	11193280	11254440	1762191	1866104	9380164	9395170
Assam	3967502	4006221	2952654	2979000	2329915	2377776	0	0	394272	407580	3507159	3533844	1236162	1228238
Bihar	19372211	19682038	9538728	9587099	6769349	6864719	3645983	3599804	6040383	6152153	4659654	4704294	5907091	3873533
Delhi	9292512	9305131	7685827	7774299	8534062	8537262	3564544	3345656	4895910	4929399	2942096	2852613	0	0
Gujarat	7110570	7064922	7021625	7050300	16061726	16191112	2791560	2624750	8510202	8492574	185773	35773	4299022	4305787
Haryana	2333743	2322837	2272470	2310300	4633056	4658849	2640918	2657678	3782688	3819699	36092	11092	3110251	3096156
Himachal Pradesh	1978395	1993687	1541285	1561836	497021	510330	177512	173459	472124	478994	714843	654841	1634163	1584670
J & K	2382558	2417495	624913	629598	625770	630714	0	0	224253	233650	1827610	1852091	1159503	1173803
Karnataka	16230170	16227454	6793228	6714795	6838275	6850896	5969505	5895301	6245950	6207191	1683304	1817673	7126983	7102624
Kerala	3502337	3515169	2940711	3002731	6202153	6286767	1817832	1785629	7921428	7990221	104883	54883	7723156	7775426
Kolkata	3685291	3674741	4106422	4214078	4183689	4249289	2896902	2893679	1372181	1363379	1876027	1866974	2295879	2297496
Madhya Pradesh	10119919	10120407	12262899	12337592	4308262	4261842	3887364	3869739	15558619	15768790	97694	47694	5244870	5242697
Maharashtra	10092142	10028095	7979614	8049062	13447847	13525722	6229743	6206766	16386735	16545949	1189688	1239175	6875597	6776042
Mumbai	3828755	3849630	6124823	6069572	6413152	6508050	3509471	3528587	3109952	3120536	1548230	1572881	0	0
North East	2730003	2776136	857127	875000	997941	1002262	0	0	294709	306733	2324164	2348918	1756598	1772954
Orissa	6929384	6992572	3996926	4037658	3048204	3135010	2087122	2047961	1096141	1105819	2930796	2992952	4513362	4515071
Punjab	7023854	7019942	3048056	3092311	4448199	4493342	2413378	2412681	5791458	5826362	939369	956660	4432323	4411216
Rajasthan	14739111	14723021	5707873	5710780	8962083	9144871	2895806	2855302	5144489	5296697	2965515	3104835	5966452	5950149
Tamil Nadu (incl. Chenna)	13489792	13512461	7028995	7068051	12225471	12290748	5363852	5274107	2308196	2340865	21207751	21275273	9597898	9595606
U.P.(E)	15238226	15305579	9771820	9816182	14874457	15030457	4013622	4085546	7411646	7653621	3998723	3935446	10434924	10461735
U.P.(W)	6625510	6619766	6699061	6724129	9486340	9624074	3842094	3821541	10792314	10863453	559150	309150	4902736	4831603
West Bengal	9272222	9319263	6997667	7046875	11601064	11712013	2083104	2043856	2660460	2733374	3011255	3047050	3609491	3580608
<b>Total</b>	<b>188196071</b>	<b>188797323</b>	<b>122972717</b>	<b>123697805</b>	<b>152353654</b>	<b>153776523</b>	<b>66416138</b>	<b>65631839</b>	<b>121607390</b>	<b>122891479</b>	<b>60071967</b>	<b>60080216</b>	<b>101206625</b>	<b>98970584</b>

## Wireless Subscriber Base

## Annexure-I

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Circle	Group														Total	
	MTNL		Unitech		Sistema		Loop		Videocon		Quadrant (HFCL)		Mar-13	Apr-13		
	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13		
Andhra Pradesh	0	0	4304686	4362090	0	0	0	0	0	0	0	0	0	64363622	64645332	
Assam	0	0	0	0	0	0	0	0	0	0	0	0	0	14387664	14532659	
Bihar	0	0	4349864	4469928	0	0	0	0	18596	18596	0	0	0	60301859	58952164	
Delhi	2593896	2596793	0	0	917353	903034	0	0	0	0	0	0	0	40426200	40244187	
Gujarat	0	0	4947807	5044239	211480	206892	0	0	553599	623723	0	0	0	51693364	51640072	
Haryana	0	0	0	0	0	0	0	0	734371	752099	0	0	0	19543589	19628710	
Himachal Pradesh	0	0	0	0	0	0	0	0	0	0	0	0	0	7015343	6957817	
J & K	0	0	0	0	0	0	0	0	0	0	0	0	0	6844607	6937351	
Karnataka	0	0	0	0	2027374	1991323	0	0	0	0	0	0	0	52914789	52807257	
Kerala	0	0	0	0	480168	460316	0	0	0	0	0	0	0	30692668	30871142	
Kolkata	0	0	0	0	843673	754153	0	0	0	0	0	0	0	21260064	21313789	
Madhya Pradesh	0	0	0	0	0	0	0	0	684665	727318	0	0	0	52164292	52376079	
Maharashtra	0	0	5582082	5513692	616917	0	0	0	0	0	0	0	0	68400365	67884503	
Mumbai	2405455	2301674	0	0	424603	0	3008352	2925089	0	0	0	0	0	30372793	29876019	
North East	0	0	0	0	0	0	0	0	0	0	0	0	0	8960542	9082003	
Orissa	0	0	0	0	0	0	0	0	0	0	0	0	0	24601935	24827043	
Punjab	0	0	0	0	0	0	0	0	0	0	1366234	1350618	0	29462871	29563132	
Rajasthan	0	0	0	0	2219801	2233410	0	0	0	0	0	0	0	48601130	49019065	
Tamil Nadu (incl. Chenna)	0	0	0	0	1190437	1168852	0	0	0	0	0	0	0	72412392	72525963	
U.P.(E)	0	0	7545557	7473608	520553	0	0	0	14622	14622	0	0	0	73824150	73776796	
U.P.(W)	0	0	4953604	4983146	535055	486918	0	0	3621	3621	0	0	0	48399485	48267401	
West Bengal	0	0	0	0	1924596	1810440	0	0	0	0	0	0	0	41159859	41293479	
<b>Total</b>	<b>4999351</b>	<b>4898467</b>	<b>31683600</b>	<b>31846703</b>	<b>11912010</b>	<b>10015338</b>	<b>3008352</b>	<b>2925089</b>	<b>2009474</b>	<b>2139979</b>	<b>1366234</b>	<b>1350618</b>	<b>867803583</b>	<b>867021963</b>		

**Proportion of VLR on the date of Peak VLR in the month of Apr, 2013 (%) Annexure-II**

Circle	Aircel	Bharti	BSNL (Except CDMA)	HFCL	Idea	Loop	MTNL	Reliance	Sistema	Tata	Unitech	Videocon	Vodafone	Total
Andhra Pradesh	49.01	96.90	70.70		97.67			82.07		72.67	56.29		90.14	<b>84.43</b>
Assam	86.47	97.67	69.84		88.31			74.56					96.10	<b>87.34</b>
Bihar	64.13	99.26	53.08		102.32			85.41		60.44	63.37	0.50	96.78	<b>86.08</b>
Delhi	62.98	79.49			95.17		48.28	95.16	43.33	62.09			94.14	<b>82.10</b>
Gujarat	144.85	94.55	60.52		97.05			89.61	40.08	66.04	56.22	68.46	94.11	<b>85.62</b>
Haryana	30.17	99.13	50.99		96.72			93.35		62.57		65.90	95.81	<b>83.34</b>
Himachal Pradesh	62.80	96.83	68.89		106.69			81.44		61.48			100.28	<b>83.86</b>
J & K	91.53	96.42	68.69		86.22			64.95					93.69	<b>86.97</b>
Karnataka	55.13	97.93	54.60		95.00			82.16	59.96	76.88			89.29	<b>83.38</b>
Kerala	33.18	97.23	64.14		99.16			74.57	56.26	74.96			91.03	<b>83.91</b>
Kolkata	73.73	94.17	34.18		89.53			95.91	58.27	80.63			94.16	<b>82.85</b>
Madhya Pradesh	12.63	96.54	52.90		103.72			83.64		70.59		66.08	86.92	<b>88.09</b>
Maharashtra	47.03	98.12	70.22		99.63			89.28		79.85	61.66		97.46	<b>88.96</b>
Mumbai	57.58	92.49			88.04	46.82	37.40	93.94		66.50			88.90	<b>77.92</b>
North East	73.57	96.39	49.08		79.68			88.87					89.71	<b>79.23</b>
Orissa	57.51	97.63	58.11		80.01			75.48		75.15			90.31	<b>78.44</b>
Punjab	42.45	94.79	54.39	63.04	94.54			94.08		67.12			93.55	<b>83.05</b>
Rajasthan	74.26	92.81	46.43		104.69			94.06	49.52	66.74			98.47	<b>85.00</b>
Tamil Nadu (incl. Chennai)	60.90	86.55	48.36		76.92			86.22	56.34	62.96			94.52	<b>72.78</b>
U.P. (E)	71.02	99.59	43.39		101.80			81.40		62.64	69.47	0.94	101.08	<b>83.09</b>
U.P. (W)	106.63	92.04	48.19		97.87			84.51	36.58	62.39	73.02	1.35	96.95	<b>84.11</b>
West Bengal	68.50	97.81	48.80		93.25			93.85	64.78	57.93			98.81	<b>87.28</b>
<b>Total</b>	<b>65.19</b>	<b>95.21</b>	<b>55.30</b>	<b>63.04</b>	<b>98.11</b>	<b>46.82</b>	<b>43.17</b>	<b>86.69</b>	<b>54.73</b>	<b>68.92</b>	<b>63.91</b>	<b>65.59</b>	<b>95.10</b>	<b>83.56</b>

Wireline Subscriber Base																	Annexure-III	
Circle	Group																	
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant (HFCL)		Sistema		Vodafone		Total	
	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13	Mar-13	Apr-13
Andhra Pradesh	1848510	1823574			125844	125920	89345	89359	170204	165690					5460	5,580	2239363	2210123
Assam	193915	193534							0						480	630	194395	194164
Bihar	378374	377297					5004	5064	10691	10724					60	150	394129	393235
Delhi	0	0	1593551	1596176	1083699	1084426	182876	183168	91674	90775					10800	11,370	2962600	2965915
Gujarat	1565727	1553750			55473	55506	99236	98879	71204	70353					390	420	1792030	1778908
Haryana	504057	499,017			23959	23969	5093	5136	27365	25445						30	560474	553597
Himachal Pradesh	273941	268,401					4485	4485	2243	2298							280669	275184
J & K	196811	195,505							0								196811	195505
Karnataka	1691273	1671098			492441	492742	113082	113,361	142998	141297					3600	3,690	2443394	2422188
Kerala	2943505	2934242			55971	56001	54014	53916	11328	11309							3064818	3055468
Kolkata	930944	922530			94051	94115	81241	81260	36579	36175					1440	1,440	1144255	1135520
Madhya Pradesh	835271	831883			242099	242240	26956	26782	15964	15906					60	240	1120350	1117051
Maharashtra	2046050	2020317			70409	70450	100784	100558	246523	243324					2730	2,790	2466496	2437439
Mumbai	0	0	1866498	1955308	332197	332405	231364	231621	547888	525512					7110	7,560	2985057	3052406
North East	189884	168504							0	0							189884	168504
Orissa	364132	361849					3501	3501	6554	6424					240	270	374427	372044
Punjab	983646	971810			106051	106109	25527	25419	16989	16711	187642	190446			330	60	1320185	1310555
Rajasthan	887216	880140			39412	39434	24540	24522	7129	7036			52474	51916	270	330	1011041	1003378
Tamil Nadu (incl. Chennai)	2398676	2389771			486503	486787	147515	147568	74811	73649					2190	2400	3109695	3100175
U.P.(E)	943196	914732			50622	50631	40515	40521	13520	13510					450	150	1048303	1019544
U.P.(W)	728589	648419			24339	24352	5473	5513	8507	8231					210	450	767118	686965
West Bengal	542345	539353					2075	1999	3828	3852							548248	545204
<b>Total</b>	<b>20446062</b>	<b>20165726</b>	<b>3460049</b>	<b>3551484</b>	<b>3283070</b>	<b>3285087</b>	<b>1242626</b>	<b>1242632</b>	<b>1505999</b>	<b>1468221</b>	<b>187642</b>	<b>190446</b>	<b>52474</b>	<b>51916</b>	<b>35820</b>	<b>37560</b>	<b>30213742</b>	<b>29993072</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 mobile phone operator. 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 mobile phone operator. 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 Home Location Register(HLR) and sum of other figures as given below:-

1	Total IMSI's in HLR (A)
2	Less: (B=a + b + c + d + e)
a.	Test/Service Cards
b.	Employees
c.	Stock in hand/in Distributional Cannels (Active Card)
d.	Subscriber Retention period expired
e.	Service suspended pending disconnection
3	Subscribers Base (A-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.

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