

**TELECOM REGULATORY AUTHORITY OF INDIA**

New Delhi, 29<sup>th</sup> May 2013  
(www.trai.gov.in)

**Highlights on Telecom Subscription Data as on 31<sup>st</sup> March 2013**

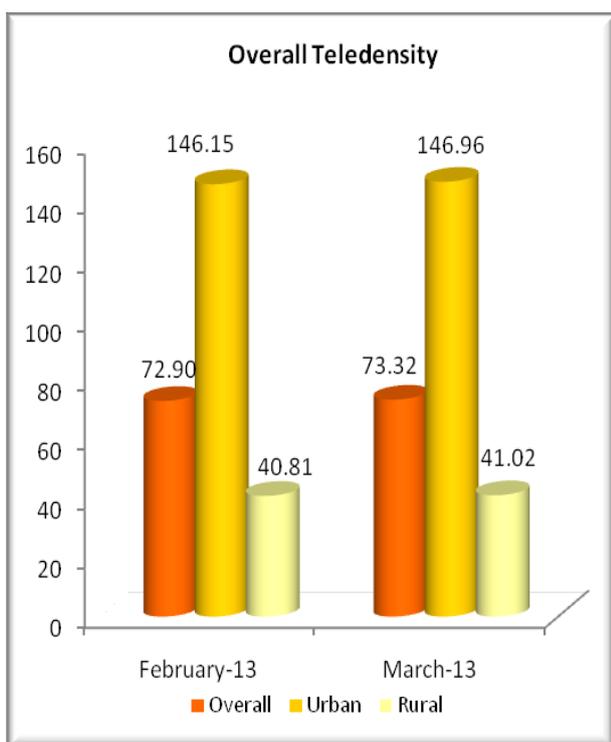
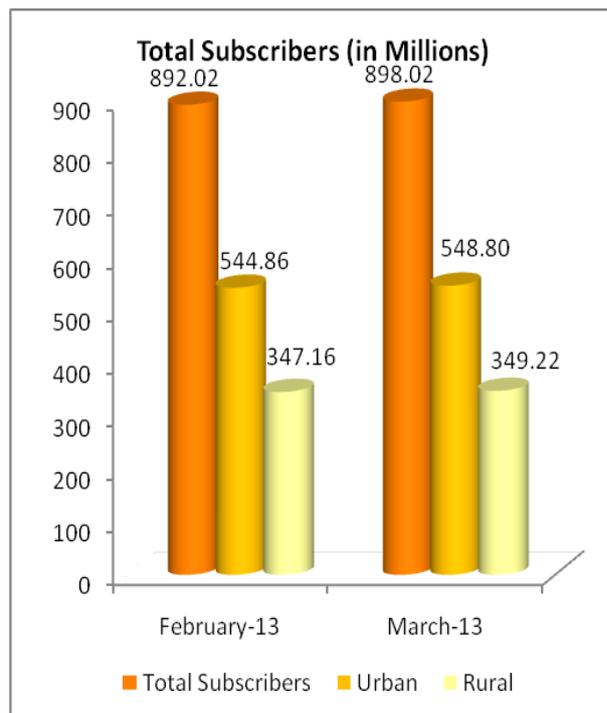
Particulars	Wireless	Wireline	Total Wireless + Wireline
<b>Total Subscribers</b> (Millions)	<b>867.80</b>	<b>30.21</b>	<b>898.02</b>
Total Net Monthly Addition (Millions)	6.14	-0.15	6.00
Monthly Growth (%)	0.71%	-0.49%	0.67%
<b>Urban Subscribers</b> (Millions)	<b>525.30</b>	<b>23.50</b>	<b>548.80</b>
Urban Subscribers Net Monthly Addition (Millions)	4.02	-0.08	3.94
Monthly Growth (%)	0.77%	-0.32%	0.72%
<b>Rural Subscribers</b> (Millions)	<b>342.50</b>	<b>6.71</b>	<b>349.22</b>
Rural Subscribers Net Monthly Addition (Millions)	2.13	-0.07	2.06
Monthly Growth (%)	0.63%	-1.07%	0.59%
<b>Overall Teledensity*</b>	<b>70.85</b>	<b>2.47</b>	<b>73.32</b>
Urban Teledensity*	140.67	6.29	146.96
Rural Teledensity*	40.23	0.79	41.02
Share of Urban Subscribers	60.53%	77.78%	61.11%
Share of Rural Subscribers	39.47%	22.22%	38.89%

- ❖ Mobile Number Portability requests increased from 86.83 million subscribers at the end of February 2013 to 89.70 million at the end of March 2013. In the month of March 2013 alone, 2.87 million requests have been made for MNP.
- ❖ Active wireless subscribers on the date of Peak VLR in March 2013 are 723.00 million, 83.31% of the total subscribers.
- ❖ Broadband subscription reached 15.05 million in March 2013 from 15.00 million in February 2013.

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

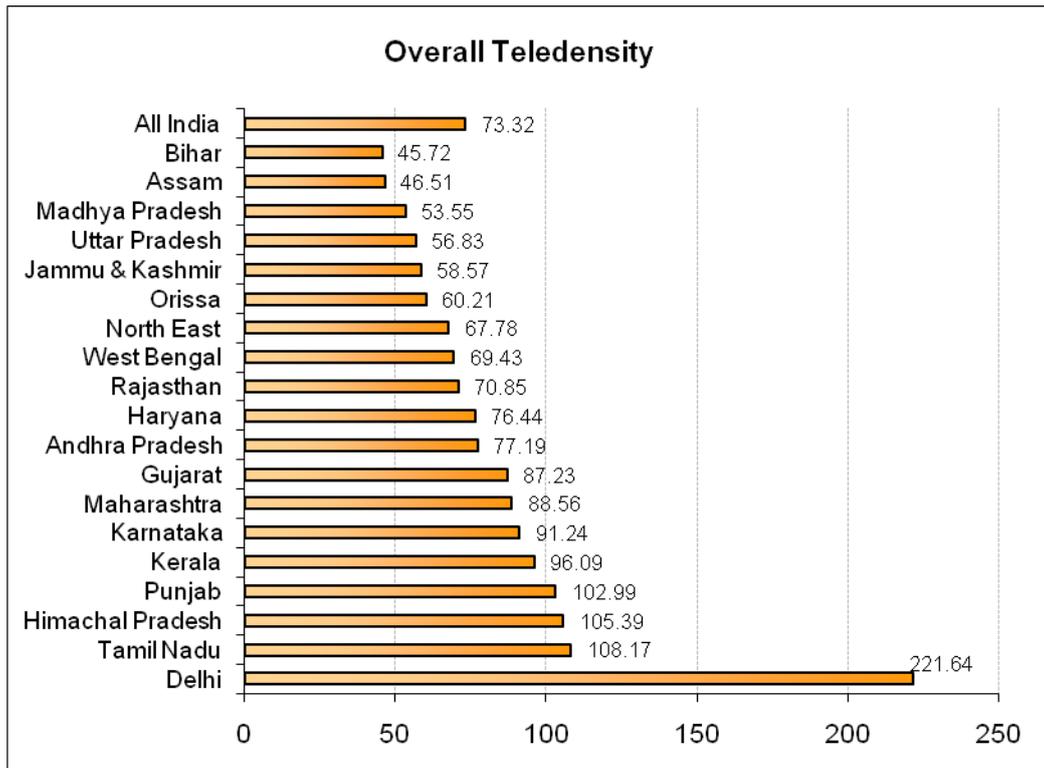
## I. Total Telephone Subscribers

- The number of telephone subscribers in India increased to 898.02 million at the end of March, 2013 from 892.02 million at the end of February 2013, thereby showing a monthly growth rate of 0.67%. The share of urban subscribers has increased to 61.11% from 61.08% whereas share of rural subscribers has decreased from 38.92% to 38.89% in the month of March 2013. With this, the overall Teledensity in India increased to 73.32 at the end of March, 2013 from 72.90 of the previous month.



- Subscription in the urban areas increased from 544.86 million in February, 2013 to 548.80 million at the end of March, 2013. Subscription in rural areas increased from 347.16 million to 349.22 million during the same period. The monthly growth rate of urban and rural subscription is 3.94% and 2.06% respectively. The overall urban Teledensity has increased from 146.15 to 146.96 and Rural Teledensity increased from 40.81 to 41.02.

## Overall Teledensity (Circle Wise)

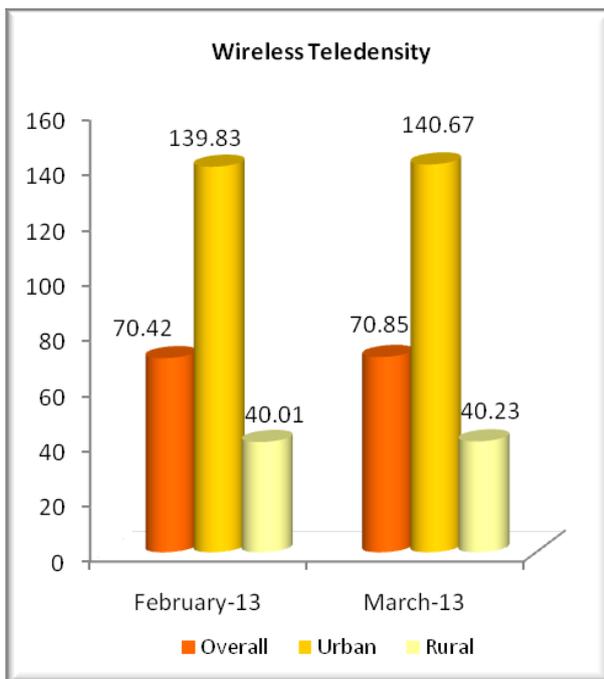
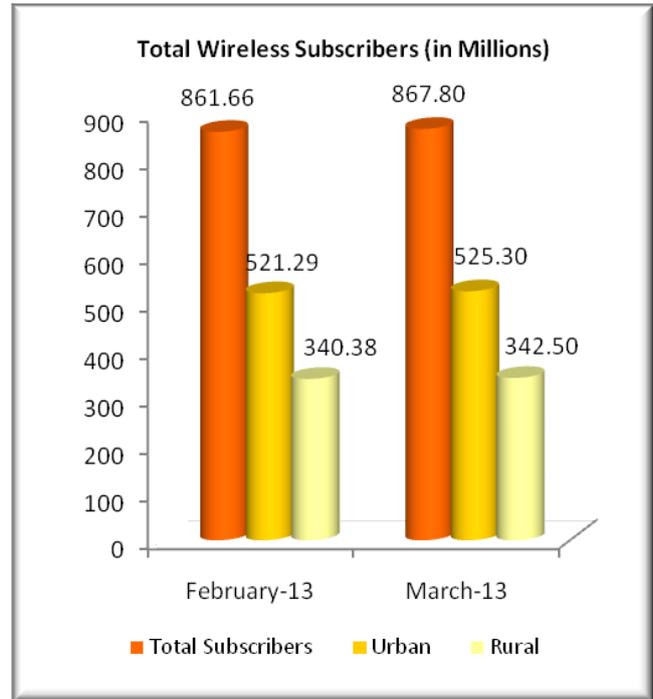


### Notes:

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)

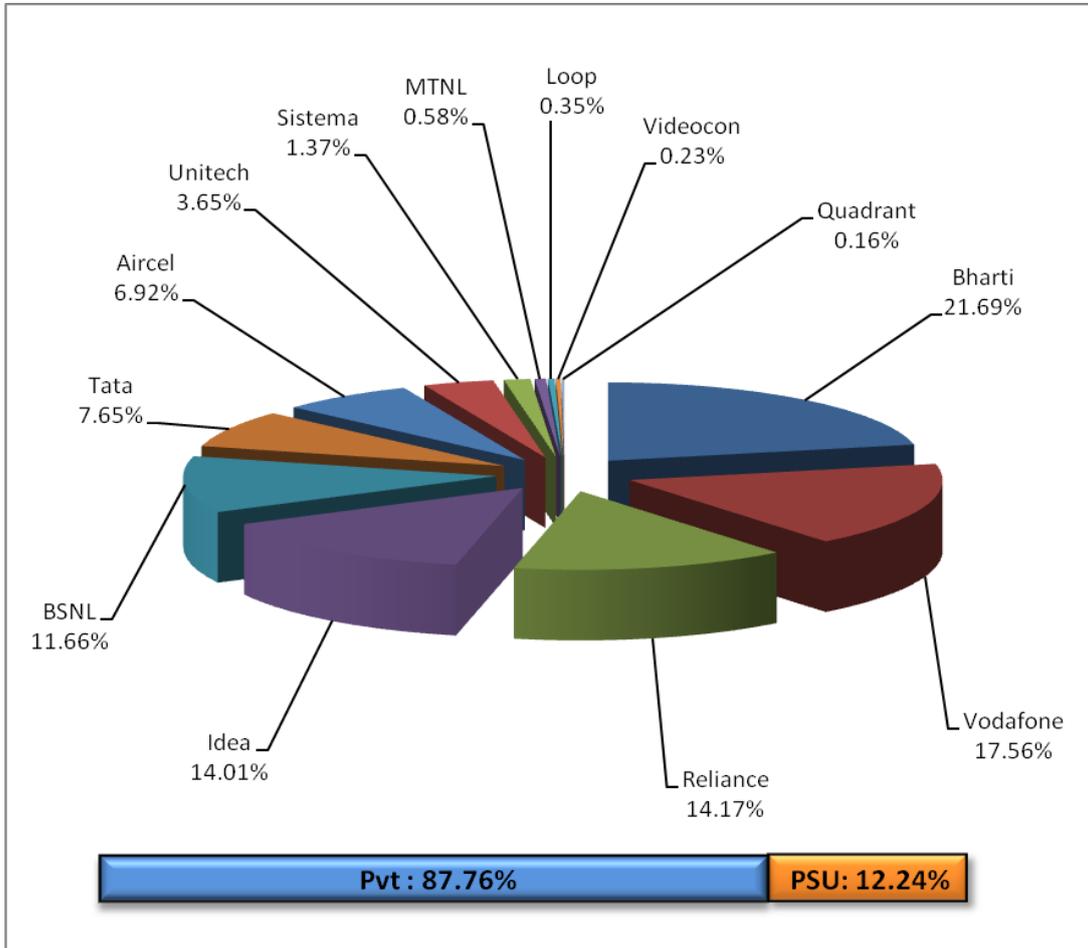
- Total wireless subscriber base increased from 861.66 million in February 2013 to 867.80 million at the end of March 2013, registering a monthly growth of 0.71%. The share of urban wireless subscribers has increased from 60.50% to 60.53% where as share of rural wireless subscribers has decreased from 39.50% to 39.47%. The overall wireless Teledensity in India has reached 70.85.



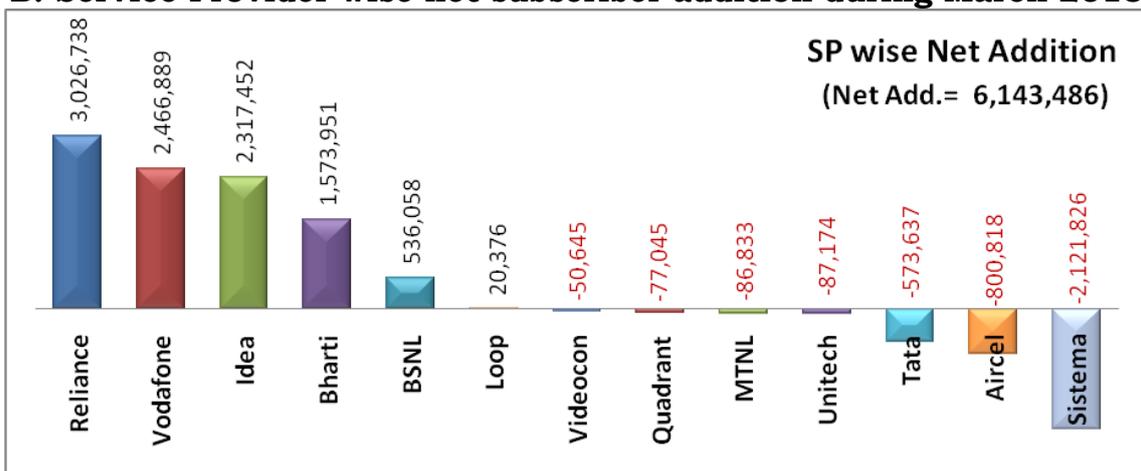
- Wireless subscription in urban areas increased from 521.29 million in February 2013 to 525.30 million at the end of March 2013. The wireless subscription in rural areas increased from 340.38 million to 342.50 million during the same period. The urban wireless Teledensity has increased from 139.83 to 140.67 and rural Teledensity has increased from 40.01 to 40.23. Detailed statistics is at Annexure I.

- Private operators hold 87.76% of the wireless market share (based on subscriber base) where as BSNL and MTNL, the two PSU operators hold only 12.24% market share. The graphical presentations of market shares and shares in net additions of all the service providers during the month of March, 2013 are given below:

**A. Service Provider wise Market Share as on 31<sup>st</sup> March, 2013.**



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

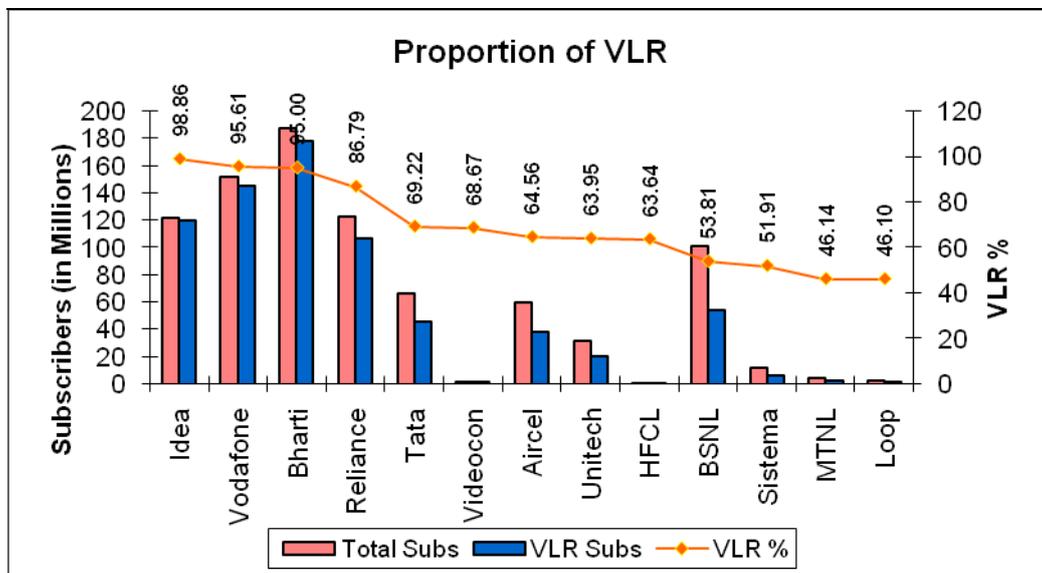


### III. VLR Data

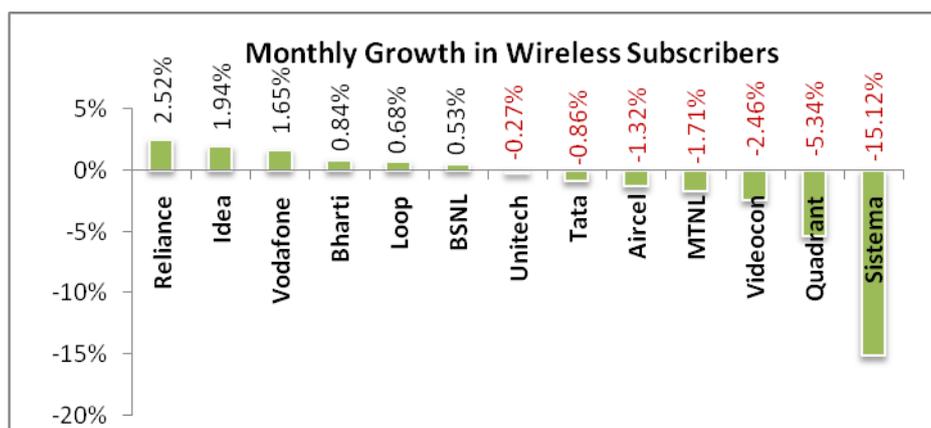
Out of the total 867.80 million wireless subscribers, 723.00\* million were active on the date of Peak VLR for the month of March 2013. The proportion of VLR subscribers is approximately 83.31% of the total wireless subscriber base reported by the service providers.

Service Provider wise, Idea leads the tally with 98.86% followed by Vodafone (95.61%). Circle-wise, Maharashtra has the highest proportion of VLR subscribers with 88.70% followed by Madhya Pradesh (87.75%) and West Bengal (87.33%). TN (incl. Chennai) has the lowest proportion with 72.88%. 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)

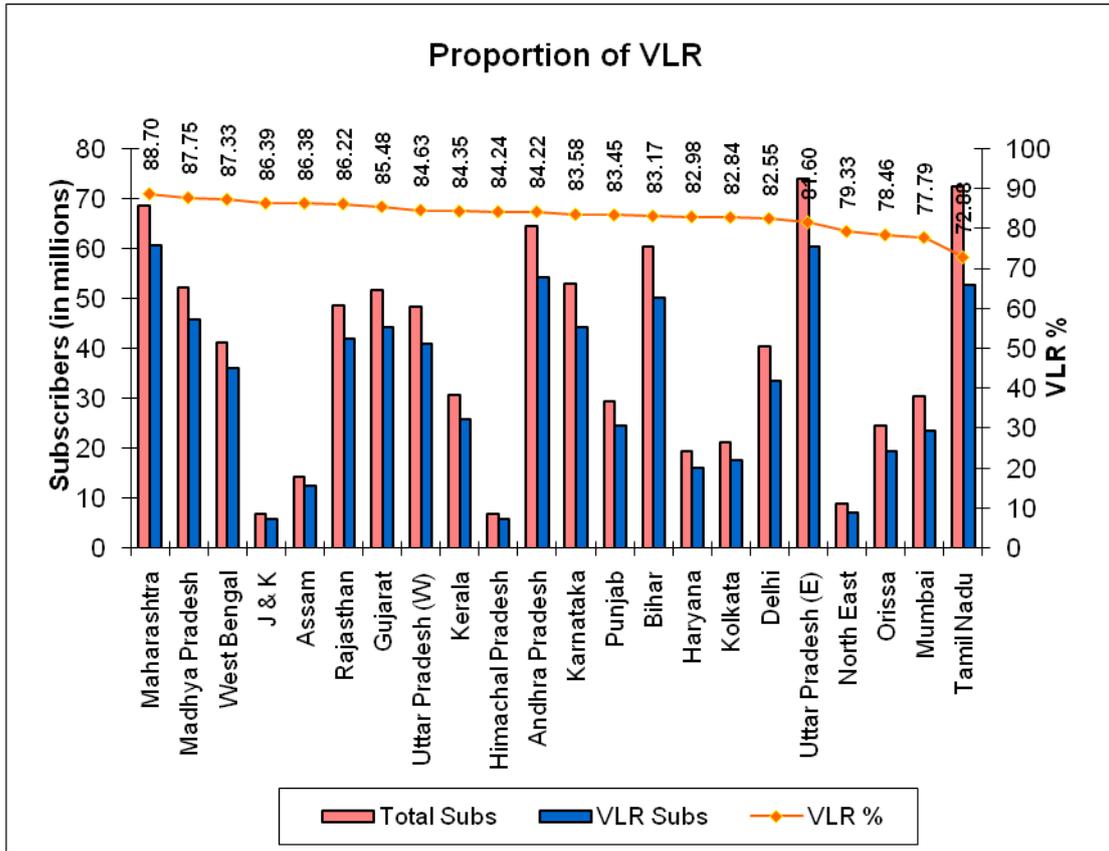


#### B. Service Provider wise growth in total subscribers (Feb.2013 – Mar.2013)

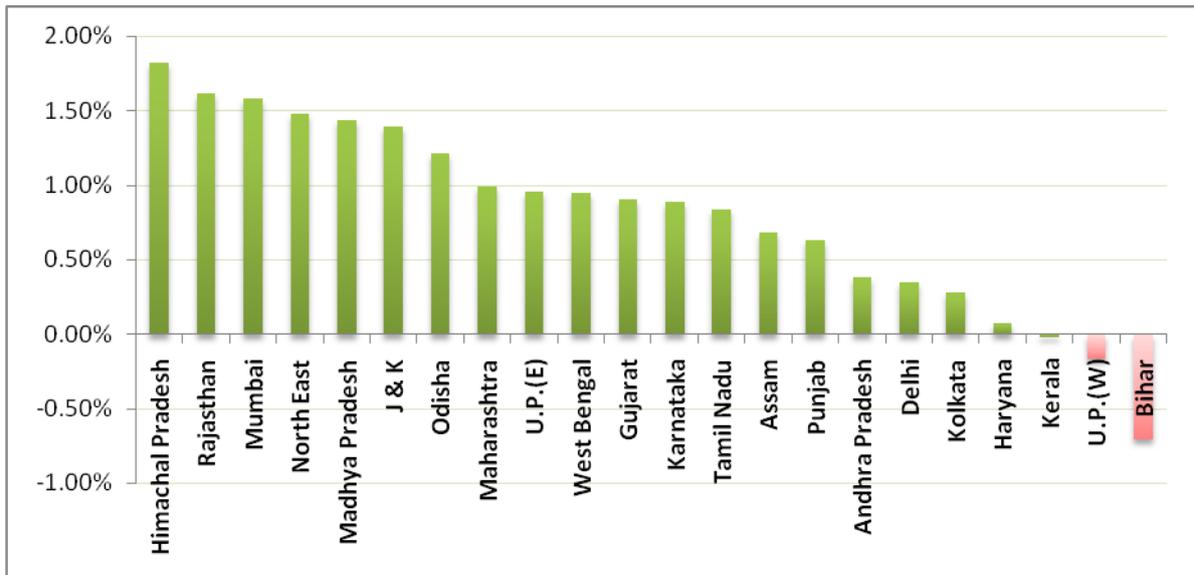


\* The total active VLR number excludes the CDMA VLR figure of M/s BSNL as the service provider has not provided the VLR figures of their total CDMA subscriber base of 2.70 million.

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



**D. Service Area wise growth in total subscribers (Feb. 2013 - Mar. 2013)**



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

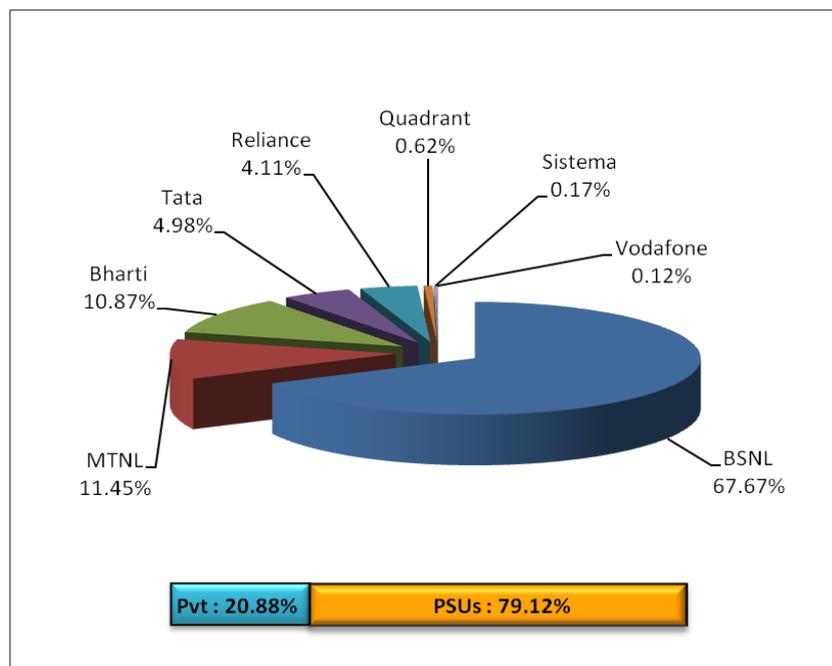
As per the data reported by the service providers, by the end of March 2013 about 89.70 million subscribers have submitted their requests to different service providers for porting their mobile number. In MNP Zone-I (Northern & Western India) maximum number of requests have been received in Rajasthan (8.55 million) followed by Gujarat (7.71 million) whereas in MNP Zone-II (Southern & Eastern) maximum number of requests have been received in Karnataka (10.72 million) followed by Andhra Pradesh Service area (8.12 million). In the month of March 2013, total number of subscribers who have submitted their request for MNP is 2.87 million. The status of MNP requests in various service areas is given below:

<b>Service Area Wise MNP Status at the end of March 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	2964199	Andhra Pradesh	8123673
Gujarat	7714883	Assam	349561
Himachal Pradesh	329574	Bihar	1876287
Haryana	3226596	Karnataka	10724931
Jammu & Kashmir	15359	Kerala	3694742
Maharashtra	7346649	Kolkata	2001349
Mumbai	3330939	Madhya Pradesh	5314556
Punjab	2921588	North East	159090
Rajasthan	8550550	Orissa	1964305
Uttar Pradesh - East	5413503	Tamil Nadu	5244617
Uttar Pradesh - West	5218440	West Bengal	3211189
<b>Total</b>	<b>47,032,280</b>	<b>Total</b>	<b>42,664,300</b>
<b>Total (Zone-1 + Zone-2)</b>			<b>89,696,580</b>
<b>Net Addition (in March 2013)</b>			<b>2,865,551</b>

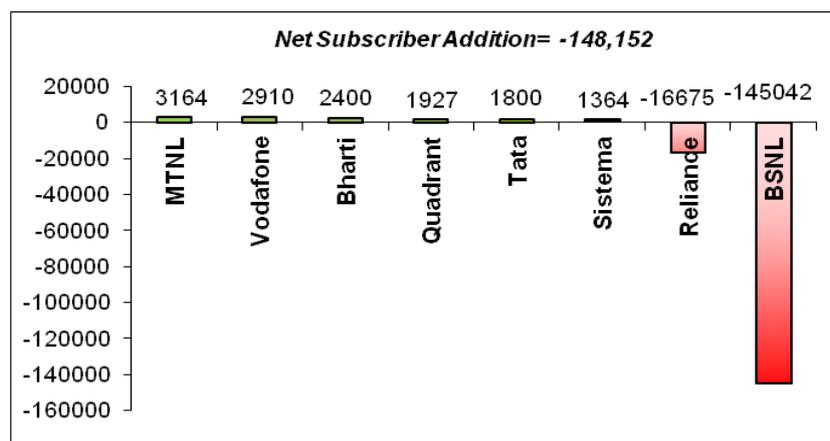
## v. Wireline Segment

Wireline subscriber base declined from 30.36 million at the end of February 2013 to 30.21 Million at the end of March 2013. Net reduction in wireline subscriber base was 0.15 million. The share of urban subscribers has increased from 77.65% to 77.78% where as share of rural subscribers has declined from 22.35% to 22.22%. The overall wireline Teledensity has marginally decreased from 2.48 in February 2013 to 2.47 in March 2013, with urban and rural Teledensity being 6.29 and 0.79 respectively. BSNL and MTNL, the two PSU operators hold 79.12% of the Wireline market share. Detailed statistics is at Annexure-III. The graphical presentation of market share of all service providers as on 31<sup>st</sup> March 2013 is given below:

### A. Service Provider wise Market Share as on 31<sup>st</sup> March 2013



### B. Wireline Service Provider wise Net addition during March 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 whereas Circles in Category A show the highest rate of monthly growth in wireless segment. In wireline segment, Circles in Category C show the highest reduction and highest rate of decline in subscriber base from February 2013 to March 2013.

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

Category	Net Additions during the month of March, 2013		Subscriber Base as on 31 <sup>st</sup> March, 2013	
	Wireline	Wireless	Wireline	Wireless
Circle A	-37401	2447363	12050978	309784532
Circle B	-50172	2708494	9440537	343848044
Circle C	-53225	314207	1630315	122111950
Metro	-7354	673422	7091912	92059057
<b>All India</b>	<b>-148152</b>	<b>6143486</b>	<b>30213742</b>	<b>867803583</b>

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

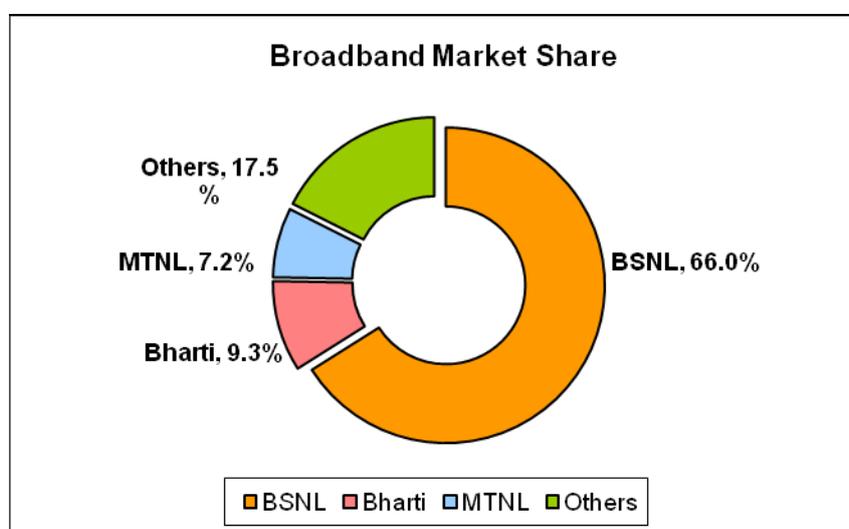
Category	Monthly Rate of Growth (Feb-2013 to Mar-2013)		Yearly rate of growth (Mar-2012 to Mar-2013)	
	Wireline	Wireless	Wireline	Wireless
Circle A	-0.31%	0.80%	-6.47%	-4.39%
Circle B	-0.53%	0.79%	-8.91%	-5.61%
Circle C	-3.16%	0.26%	-21.16%	-3.93%
Metro	-0.10%	0.74%	3.07%	-11.28%
<b>All India</b>	<b>-0.49%</b>	<b>0.71%</b>	<b>-6.16%</b>	<b>-5.59%</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 15.00 million at the end of February 2013 to 15.05 million at the end of March 2013, there by showing a monthly growth of 0.35%. Yearly growth in broadband subscribers is 9.13% during the last one year (March 2012 to March 2013).

As on 31<sup>st</sup> March 2013, there are 161 Internet Service Providers (ISPs) which are providing broadband services in the country. Out of these, 120 ISPs have provided broadband subscription data for the month of March 2013, for the rest of the ISPs data from previous month has been retained (Data from top 10 ISPs, which constitute 93.26% of the total subscriber base, have been received for the month of March 2013). Top five ISPs in terms of market share (based on subscriber base) are: BSNL (9.93 million), Bharti Airtel (1.40 million), MTNL (1.08 million), Hathway (0.37 million) and You Broadband (0.31 million).



Contact details in case of any clarification:

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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	
	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13
Andhra Pradesh	18073838	18251864	6802433	7019993	5778818	5865618	6608357	6585826	11028106	11193280	1737528	1762191	9293378	9380164
Assam	3913580	3967502	2999849	2952654	2261140	2329915	0	0	390808	394272	3489733	3507159	1233664	1236162
Bihar	19030808	19372211	9376863	9538728	6534555	6769349	3692033	3645983	5804509	6040383	4708622	4659654	5937547	5907091
Delhi	9237092	9292512	7504418	7685827	8532942	8534062	3680987	3564544	4847130	4895910	2977541	2942096	0	0
Gujarat	7118857	7110570	6816127	7021625	15923000	16061726	2924660	2791560	8371913	8510202	285773	185773	4279472	4299022
Haryana	2322571	2333743	2187087	2272470	4531932	4633056	2691195	2640918	3692015	3782688	136164	36092	3072996	3110251
Himachal Pradesh	1937743	1978395	1499537	1541285	484109	497021	194462	177512	458451	472124	700377	714843	1615343	1634163
J & K	2339979	2382558	609887	624913	615170	625770	0	0	213144	224253	1811719	1827610	1160725	1159503
Karnataka	16127194	16230170	6580234	6793228	6736183	6838275	5965939	5969505	6230037	6245950	1645151	1683304	7069786	7126983
Kerala	3469262	3502337	2901632	2940711	6125220	6202153	1848834	1817832	7899566	7921428	254883	104883	7704749	7723156
Kolkata	3706490	3685291	4067917	4106422	4134289	4183689	2899705	2896902	1356819	1372181	1864985	1876027	2291249	2295879
Madhya Pradesh	10011052	10119919	11725325	12262899	4143942	4308262	3887209	3887364	15302156	15558619	449142	97694	5189474	5244870
Maharashtra	10031175	10092142	7761162	7979614	13253528	13447847	6242568	6229743	16100407	16386735	1156328	1189688	6800108	6875597
Mumbai	3715473	3828755	6022196	6124823	6225520	6413152	3459298	3509471	3020837	3109952	1521432	1548230	0	0
North East	2678086	2730003	848419	857127	977465	997941	0	0	280581	294709	2304906	2324164	1740290	1756598
Orissa	6832101	6929384	3960476	3996926	2959711	3048204	2126247	2087122	1037157	1096141	2887890	2930796	4503672	4513362
Punjab	6981282	7023854	2965174	3048056	4379563	4448199	2451338	2413378	5685664	5791458	976158	939369	4395144	4432323
Rajasthan	14606583	14739111	5523281	5707873	8809378	8962083	2929302	2895806	4905975	5144489	2924732	2965515	5941861	5966452
Tamil Nadu (incl. Chenna)	13420423	13489792	6766894	7028995	12109051	12225471	5383852	5363852	2312515	2308196	21091123	21207751	9521638	9597898
U.P.(E)	15182417	15238226	9690036	9771820	14651478	14874457	3998030	4013622	7153339	7411646	3979710	3998723	10382710	10434924
U.P.(W)	6619012	6625510	6602737	6699061	9263575	9486340	3895159	3842094	10626274	10792314	909150	559150	4915270	4902736
West Bengal	9267102	9272222	6734295	6997667	11456196	11601064	2110600	2083104	2572535	2660460	3059738	3011255	3621491	3609491
<b>Total</b>	<b>186622120</b>	<b>188196071</b>	<b>119945979</b>	<b>122972717</b>	<b>149886765</b>	<b>152353654</b>	<b>66989775</b>	<b>66416138</b>	<b>119289938</b>	<b>121607390</b>	<b>60872785</b>	<b>60071967</b>	<b>100670567</b>	<b>101206625</b>

## Wireless Subscriber Base

## Annexure-I

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Circle	Group														
	MTNL		Unitech		Sistema		Loop		Videocon		Quadrant (HFCL)		Total		
	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	
Andhra Pradesh	0	0	4189040	4304686	607894	0	0	0	0	0	0	0	0	64119392	64363622
Assam	0	0	0	0	1280	0	0	0	0	0	0	0	0	14290054	14387664
Bihar	0	0	4462694	4349864	1162785	0	0	0	18596	18596	0	0	0	60729012	60301859
Delhi	2582411	2593896	0	0	922334	917353	0	0	0	0	0	0	0	40284855	40426200
Gujarat	0	0	4736823	4947807	220479	211480	0	0	551701	553599	0	0	0	51228805	51693364
Haryana	0	0	0	0	139437	0	0	0	755961	734371	0	0	0	19529358	19543589
Himachal Pradesh	0	0	0	0	71	0	0	0	0	0	0	0	0	6890093	7015343
J & K	0	0	0	0	21	0	0	0	0	0	0	0	0	6750645	6844607
Karnataka	0	0	0	0	2093480	2027374	0	0	0	0	0	0	0	52448004	52914789
Kerala	0	0	0	0	494203	480168	0	0	0	0	0	0	0	30698349	30692668
Kolkata	0	0	0	0	879707	843673	0	0	0	0	0	0	0	21201161	21260064
Madhya Pradesh	0	0	0	0	3155	0	0	0	715612	684665	0	0	0	51427067	52164292
Maharashtra	0	0	5743249	5582082	641408	616917	0	0	0	0	0	0	0	67729933	68400365
Mumbai	2503773	2405455	0	0	443114	424603	2987976	3008352	0	0	0	0	0	29899619	30372793
North East	0	0	0	0	151	0	0	0	0	0	0	0	0	8829898	8960542
Orissa	0	0	0	0	787	0	0	0	0	0	0	0	0	24308041	24601935
Punjab	0	0	0	0	1146	0	0	0	0	0	1443279	1366234	0	29278748	29462871
Rajasthan	0	0	0	0	2187310	2219801	0	0	0	0	0	0	0	47828422	48601130
Tamil Nadu (incl. Chenna	0	0	0	0	1205539	1190437	0	0	0	0	0	0	0	71811035	72412392
U.P.(E)	0	0	7544741	7545557	525862	520553	0	0	14628	14622	0	0	0	73122951	73824150
U.P.(W)	0	0	5094227	4953604	552192	535055	0	0	3621	3621	0	0	0	48481217	48399485
West Bengal	0	0	0	0	1951481	1924596	0	0	0	0	0	0	0	40773438	41159859
<b>Total</b>	<b>5086184</b>	<b>4999351</b>	<b>31770774</b>	<b>31683600</b>	<b>14033836</b>	<b>11912010</b>	<b>2987976</b>	<b>3008352</b>	<b>2060119</b>	<b>2009474</b>	<b>1443279</b>	<b>1366234</b>	<b>861660097</b>	<b>867803583</b>	

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

Circle	Aircel	Bharti	BSNL (Except CDMA)	HFCL	Idea	Loop	MTNL	Reliance	Sistema	Tata	Unitech	Videocon	Vodafone	Total
Andhra Pradesh	51.47	97.05	66.75		97.87			81.86		74.57	57.09		89.60	<b>84.22</b>
Assam	86.27	97.28	69.15		88.47			71.28					95.92	<b>86.38</b>
Bihar	63.65	98.03	35.27		104.03			85.77		59.99	64.58	0.83	98.22	<b>83.17</b>
Delhi	61.27	82.27			97.32		52.72	93.48	42.97	59.22			94.93	<b>82.55</b>
Gujarat	38.85	93.36	60.52		96.56			90.12	40.24	63.43	58.69	76.74	94.30	<b>85.48</b>
Haryana	23.94	96.57	50.88		96.94			93.03		63.39		66.19	95.63	<b>82.98</b>
Himachal Pradesh	58.05	98.53	66.37		113.79			83.76		61.47			105.34	<b>84.24</b>
J & K	91.03	95.83	68.62		86.43			64.13					92.04	<b>86.39</b>
Karnataka	58.96	98.14	53.68		94.77			82.45	60.02	76.96			89.91	<b>83.58</b>
Kerala	20.23	98.09	64.83		99.80			75.93	55.17	75.13			91.20	<b>84.35</b>
Kolkata	68.85	93.07	34.57		89.64			96.22	52.50	80.74			98.80	<b>82.84</b>
Madhya Pradesh	7.97	95.70	52.66		104.61			83.38		70.95		68.46	83.42	<b>87.75</b>
Maharashtra	47.82	97.86	69.54		99.33			90.58	54.79	80.47	61.77		97.73	<b>88.70</b>
Mumbai	58.04	95.51			90.43	46.10	39.05	92.89	29.67	66.81			90.02	<b>77.79</b>
North East	74.16	96.35	51.65		81.50			82.78					89.91	<b>79.33</b>
Orissa	57.09	97.78	58.00		79.49			76.33		74.47			90.54	<b>78.46</b>
Punjab	45.32	95.09	54.22	63.64	94.91			94.79		68.78			93.57	<b>83.45</b>
Rajasthan	77.80	93.61	46.50		106.98			93.62	49.81	66.95			101.88	<b>86.22</b>
Tamil Nadu (incl. Chennai)	60.61	87.50	48.30		76.24			85.92	56.00	63.52			94.92	<b>72.88</b>
U.P. (E)	69.22	96.81	43.87		101.65			81.76	32.48	65.45	67.60	0.61	98.96	<b>81.60</b>
U.P. (W)	63.19	89.51	47.68		101.11			86.05	34.75	62.54	71.51	0.75	100.49	<b>84.63</b>
West Bengal	67.66	97.85	49.10		94.39			95.15	61.72	57.85			99.12	<b>87.33</b>
<b>Total</b>	<b>64.56</b>	<b>95.00</b>	<b>53.81</b>	<b>63.64</b>	<b>98.86</b>	<b>46.10</b>	<b>46.14</b>	<b>86.79</b>	<b>51.91</b>	<b>69.22</b>	<b>63.95</b>	<b>68.67</b>	<b>95.61</b>	<b>83.31</b>

## Wireline Subscriber Base

Annexure-III

Circle	Group																Total	
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant (HFCL)		Sistema		Vodafone		Feb-13	Mar-13
	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13	Feb-13	Mar-13
Andhra Pradesh	1857263	1848510			125755	125844	89788	89345	169422	170204					5430	5,460	2247658	2239363
Assam	193484	193915							0	0					240	480	193724	194395
Bihar	377241	378374					4978	5004	11199	10691					60	60	393478	394129
Delhi	0	0	1589719	1593551	1082846	1083699	187050	182876	93533	91674					8790	10,800	2961938	2962600
Gujarat	1565346	1565727			55434	55473	100845	99236	69909	71204					360	390	1791894	1792030
Haryana	505551	504,057			23947	23959	5171	5093	27424	27365							562093	560474
Himachal Pradesh	280351	273,941					4492	4485	2259	2243							287102	280669
J & K	196894	196,811							0	0							196894	196811
Karnataka	1692804	1691273			492087	492441	113671	113,082	140752	142998					3420	3,600	2442734	2443394
Kerala	2954754	2943505			55936	55971	54440	54014	11726	11328							3076856	3064818
Kolkata	933919	930944			93977	94051	81465	81241	36235	36579					1440	1,440	1147036	1144255
Madhya Pradesh	831020	835271			241932	242099	28215	26956	15577	15964					60	60	1116804	1120350
Maharashtra	2065992	2046050			70360	70409	101817	100784	245422	246523					2670	2,730	2486261	2466496
Mumbai	0	0	1867166	1866498	331952	332197	236042	231364	548202	547888					6930	7,110	2990292	2985057
North East	216859	189884							0	0							216859	189884
Orissa	385096	364132					3591	3501	6556	6554					240	240	395483	374427
Punjab	998508	983646			105983	106051	26543	25527	16636	16989	185715	187642			300	330	1333685	1320185
Rajasthan	904855	887216			39386	39412	24750	24540	6964	7129			51110	52474	240	270	1027305	1011041
Tamil Nadu (incl. Chennai)	2408645	2398676			486167	486503	148268	147515	74682	74811					2070	2190	3119832	3109695
U.P.(E)	947448	943196			50585	50622	40517	40515	13562	13520					450	450	1052562	1048303
U.P.(W)	732280	728589			24323	24339	5546	5473	8656	8507					210	210	771015	767118
West Bengal	542794	542345					2112	2075	5483	3828							550389	548248
<b>Total</b>	<b>20591104</b>	<b>20446062</b>	<b>3456885</b>	<b>3460049</b>	<b>3280670</b>	<b>3283070</b>	<b>1259301</b>	<b>1242626</b>	<b>1504199</b>	<b>1505999</b>	<b>185715</b>	<b>187642</b>	<b>51110</b>	<b>52474</b>	<b>32910</b>	<b>35820</b>	<b>30361894</b>	<b>30213742</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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