

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 18<sup>th</sup> April, 2013

(www.trai.gov.in)

**Highlights on Telecom Subscription Data as on 28<sup>th</sup> February 2013**

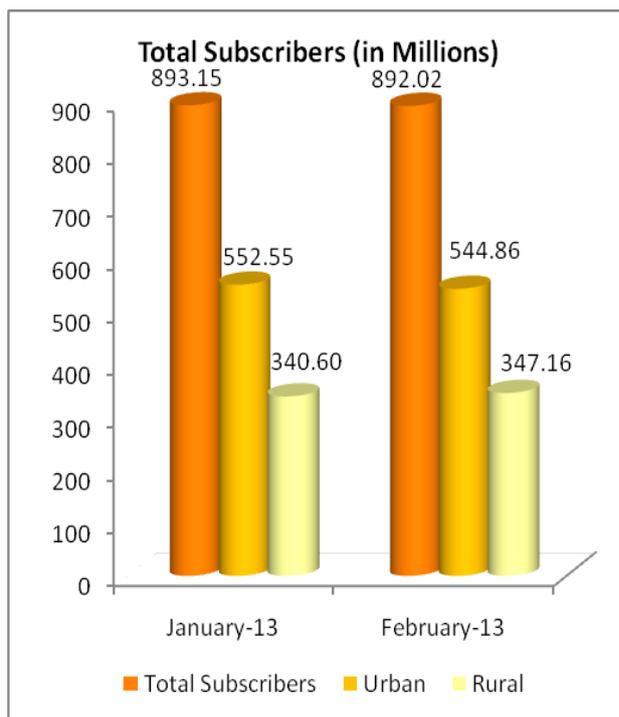
Particulars	Wireless	Wireline	Total Wireless + Wireline
<b>Total Subscribers</b> (Millions)	<b>861.66</b>	<b>30.36</b>	<b>892.02</b>
Total Net Monthly Addition (Millions)	-0.96	-0.16	-1.12
Monthly Growth (%)	-0.11%	-0.52%	-0.13%
<b>Urban Subscribers</b> (Millions)	<b>521.29</b>	<b>23.58</b>	<b>544.86</b>
Urban Subscribers Net Monthly Addition (Millions)	-7.60	-0.09	-7.69
Monthly Growth (%)	-1.44%	-0.38%	-1.39%
<b>Rural Subscribers</b> (Millions)	<b>340.38</b>	<b>6.79</b>	<b>347.16</b>
Rural Subscribers Net Monthly Addition (Millions)	6.64	-0.07	6.56
Monthly Growth (%)	1.99%	-1.03%	1.93%
<b>Overall Teledensity*</b>	<b>70.42</b>	<b>2.48</b>	<b>72.90</b>
Urban Teledensity*	139.83	6.32	146.15
Rural Teledensity*	40.01	0.80	40.81
Share of Urban Subscribers	<b>60.50%</b>	<b>77.65%</b>	<b>61.08%</b>
Share of Rural Subscribers	<b>39.50%</b>	<b>22.35%</b>	<b>38.92%</b>

- ❖ Mobile Number Portability requests increased from 84.26 million subscribers at the end of January 2013 to 86.83 million at the end of February 2013. In the month of February 2013 alone, 2.57 million requests have been made for MNP.
- ❖ Active wireless subscribers on the date of Peak VLR in February 2013 are 712.49 Million, 82.69% of the total subscribers.
- ❖ Broadband subscription reached 15.00 million in February 2013 from 15.01 million in January 2013.

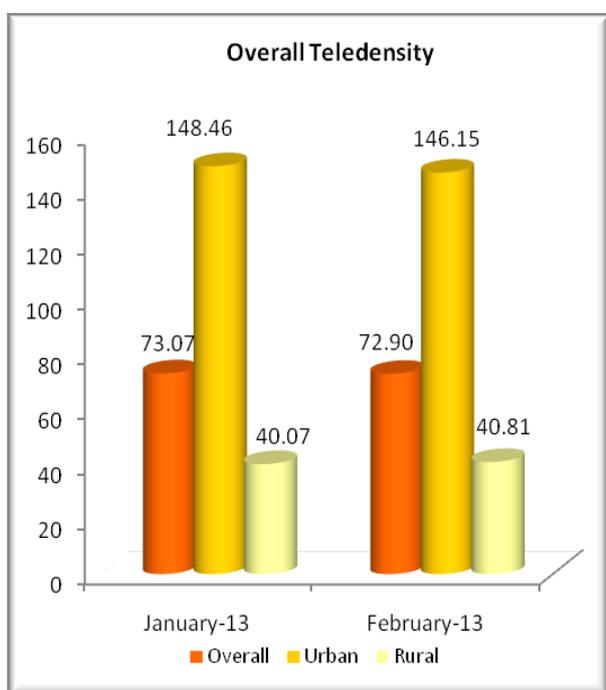
\* Based on the population projections from Census data published by the Office of Registrar General & Census Commissioner of India.

## I. Total Telephone Subscribers

- The number of telephone subscribers in India decreased to 892.02 million at the end of February, 2013 from 893.15 million at the end of January 2013, thereby showing a monthly growth rate of -0.13%. The share of urban subscribers has declined to 61.08% from 61.87% whereas share of rural subscribers has increased to 38.92% in the month of February 2013. With this, the overall Teledensity in India decreased to 72.90 at the end of February, 2013

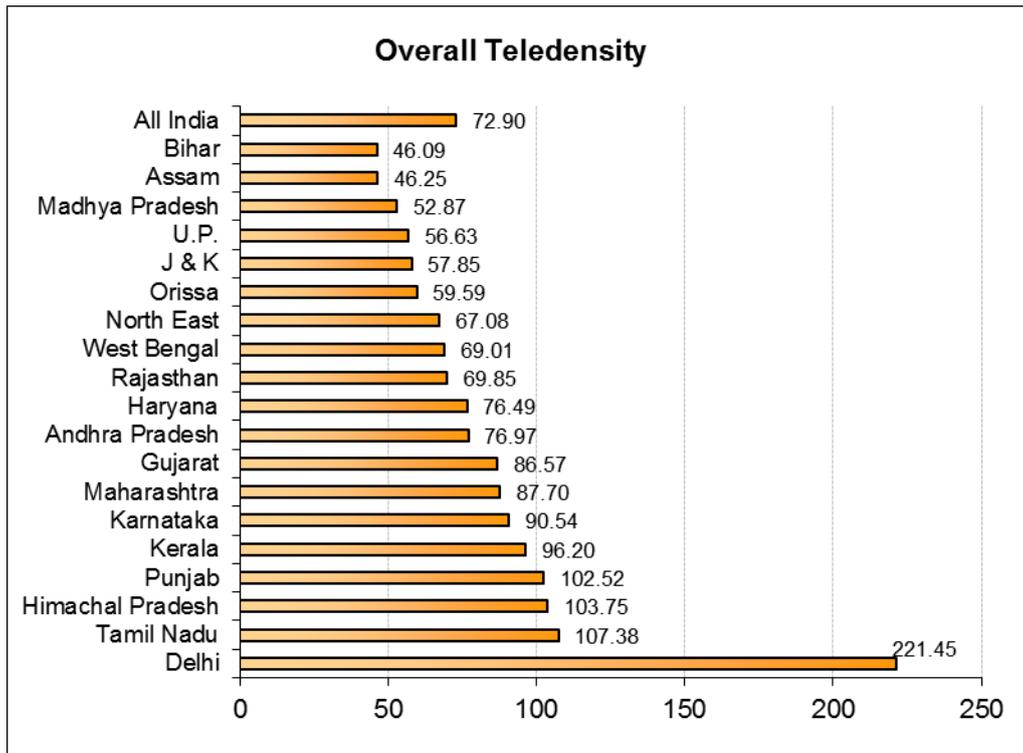


from 73.07 of the previous month. However, the decline in the subscriber base, which has been witnessed since the month of July 2012 primarily due to disconnection of inactive mobile subscribers by the telecom service providers, has become gradually less. Besides, the average revenue per user (ARPU) has depicted an increase during the quarter ending December 2012.



- Subscription in the urban areas decreased from 552.55 million in January, 2013 to 544.86 million at the end of February, 2013. Subscription in rural areas increased from 340.60 million to 347.16 million during the same period. The monthly growth rate of urban and rural subscription is - 1.39% and 1.93% respectively. The overall urban Teledensity has decreased from 148.46 to 146.15 and Rural Teledensity increased from 40.07 to 40.81.

## Overall Teledensity (Circle Wise)

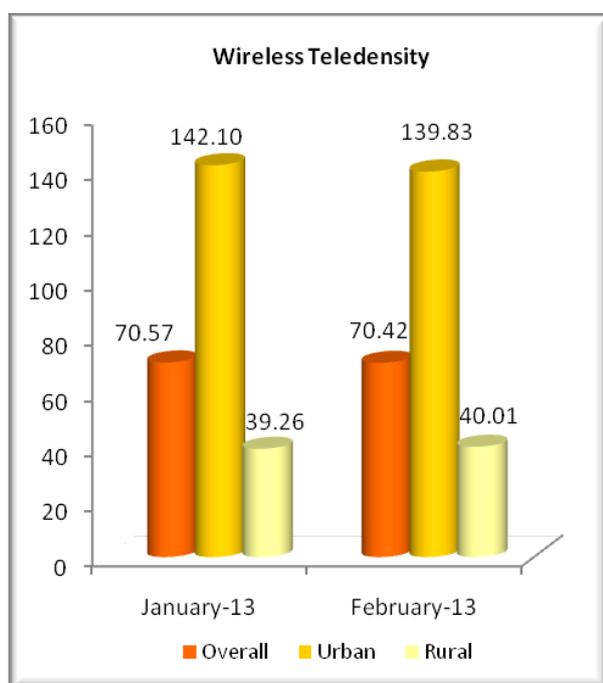
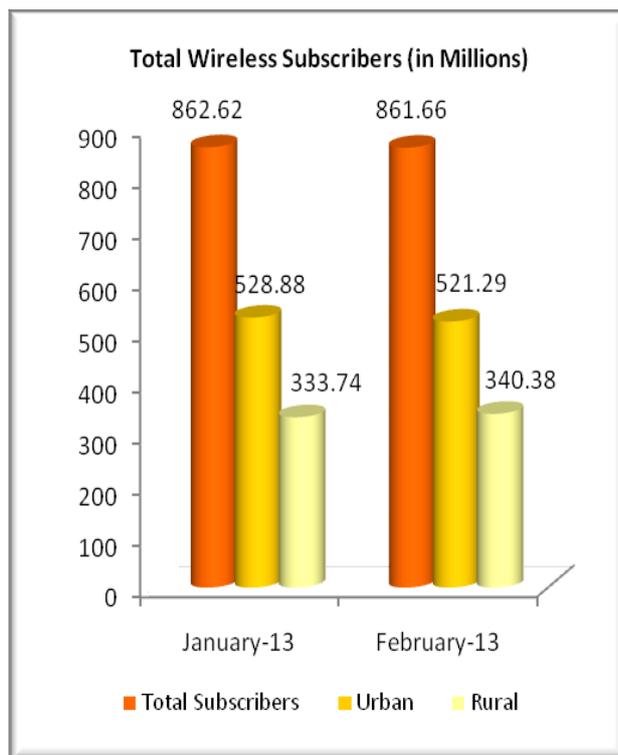


### Notes:

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)

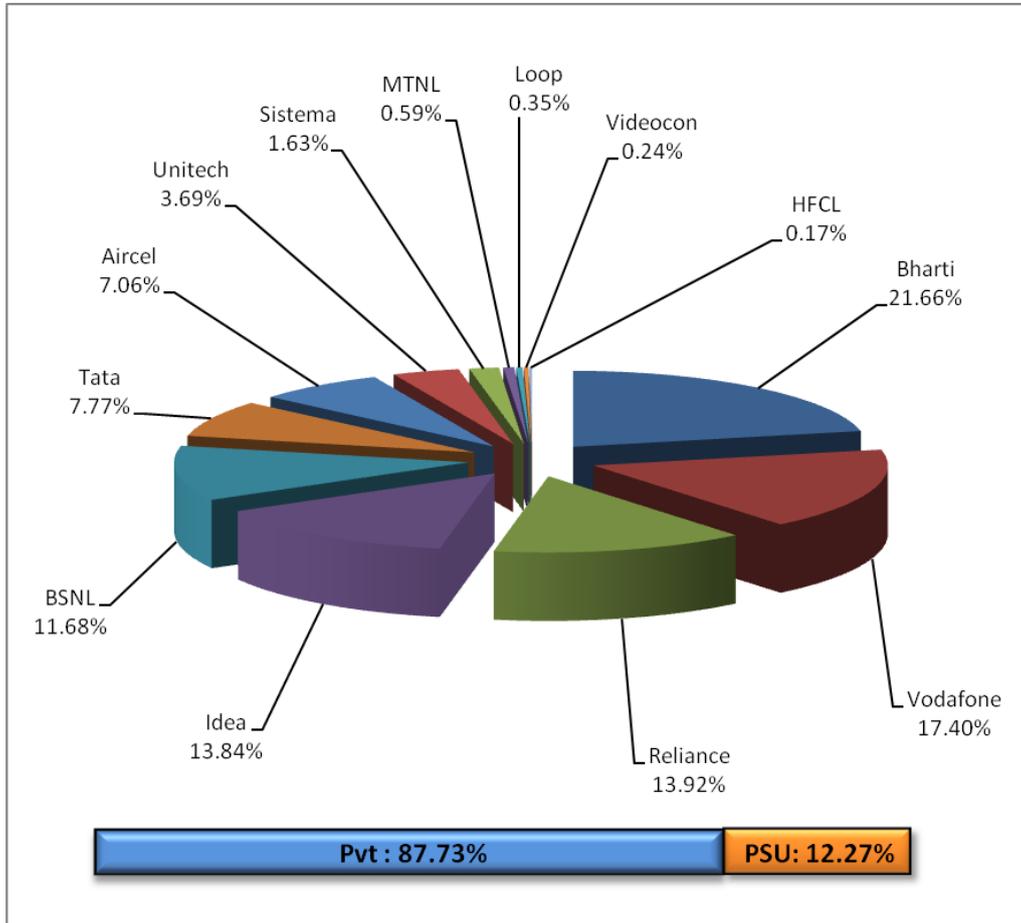
• Total wireless subscriber base decreased from 862.62 million in January 2013 to 861.66 million at the end of February 2013, registering a monthly growth of  $-0.11\%$ . However, the decline in the wireless subscriber base, which has been witnessed since July 2012 primarily due to disconnection of inactive mobile subscribers by the telecom service providers, has become gradually less. Besides the average revenue per use (ARPU) for wireless segment has depicted an increase during the quarter ending December 2012. The share of urban wireless subscribers has decreased from 61.31% to 60.50% whereas the share of rural wireless subscribers has increased from 38.69% to 39.50%. The overall wireless Teledensity in India has reached 70.42.



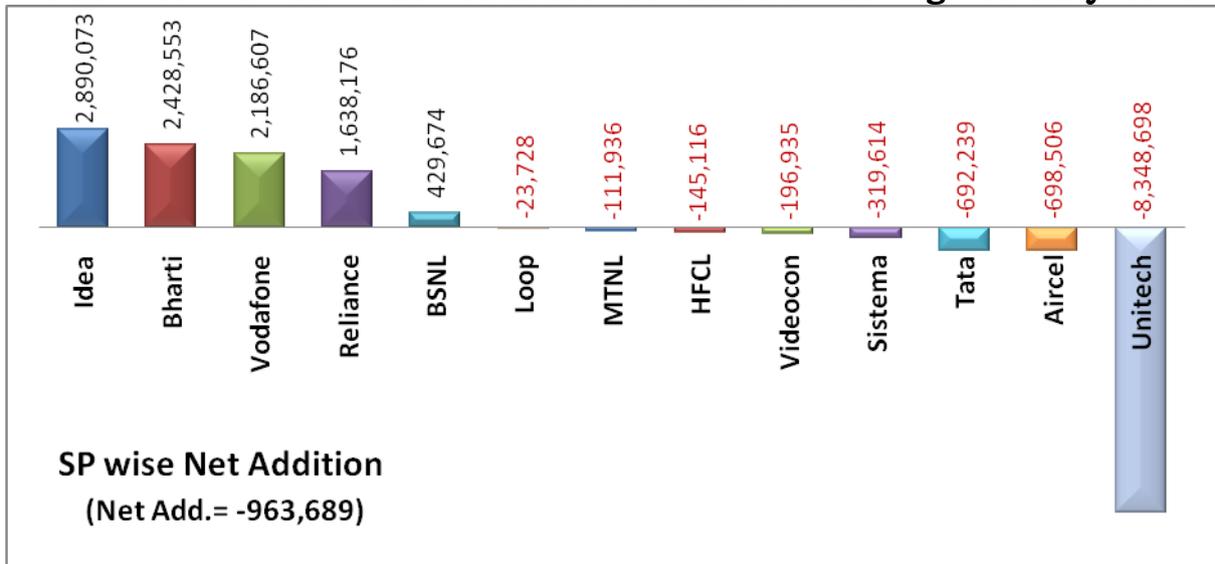
• Wireless subscription in urban areas decreased from 528.88 million in January 2013 to 521.29 million at the end of February 2013. The wireless subscription in rural areas increased from 333.74 million to 340.38 million during the same period. The urban wireless Teledensity has decreased from 142.10 to 139.83 and rural Teledensity has increased from 39.26 to 40.01. Detailed statistics is at Annexure I.

- Private operators hold 87.73% of the wireless market share (based on subscriber base) where as BSNL and MTNL, the two PSU operators hold only 12.27% market share. The graphical presentations of market shares and shares in net additions of all the service providers during the month of February, 2013 are given below:

**A. Service Provider wise Market Share as on 28<sup>th</sup> February, 2013.**



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

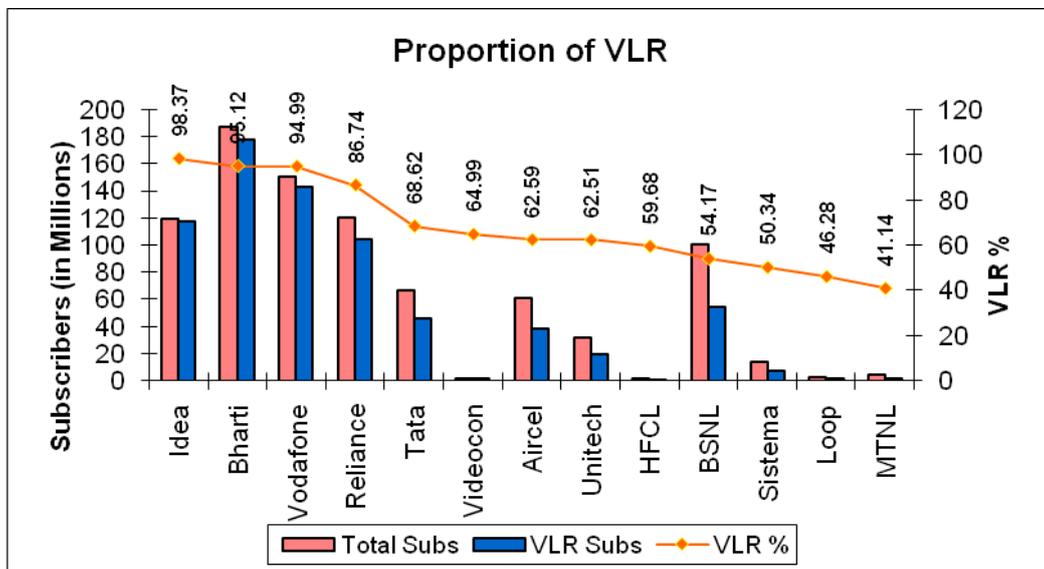


### III. VLR Data

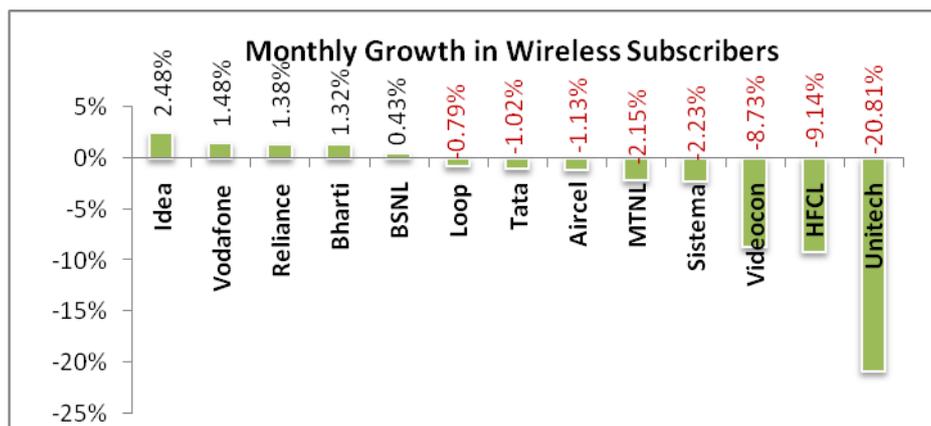
Out of the total 861.66 million wireless subscribers, 712.49\* million were active on the date of Peak VLR for the month of February 2013. The proportion of VLR subscribers is approximately 82.69% of the total wireless subscriber base reported by the service providers.

Service Provider wise, Idea leads the tally with 98.37% followed by Bharti (95.12%). Circle-wise, Maharashtra has the highest proportion of VLR subscribers with 88.48% followed by Madhya Pradesh (87.74%) and Assam (86.36%); Tamil Nadu (incl. Chennai) has the lowest proportion with 73.84%. 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)

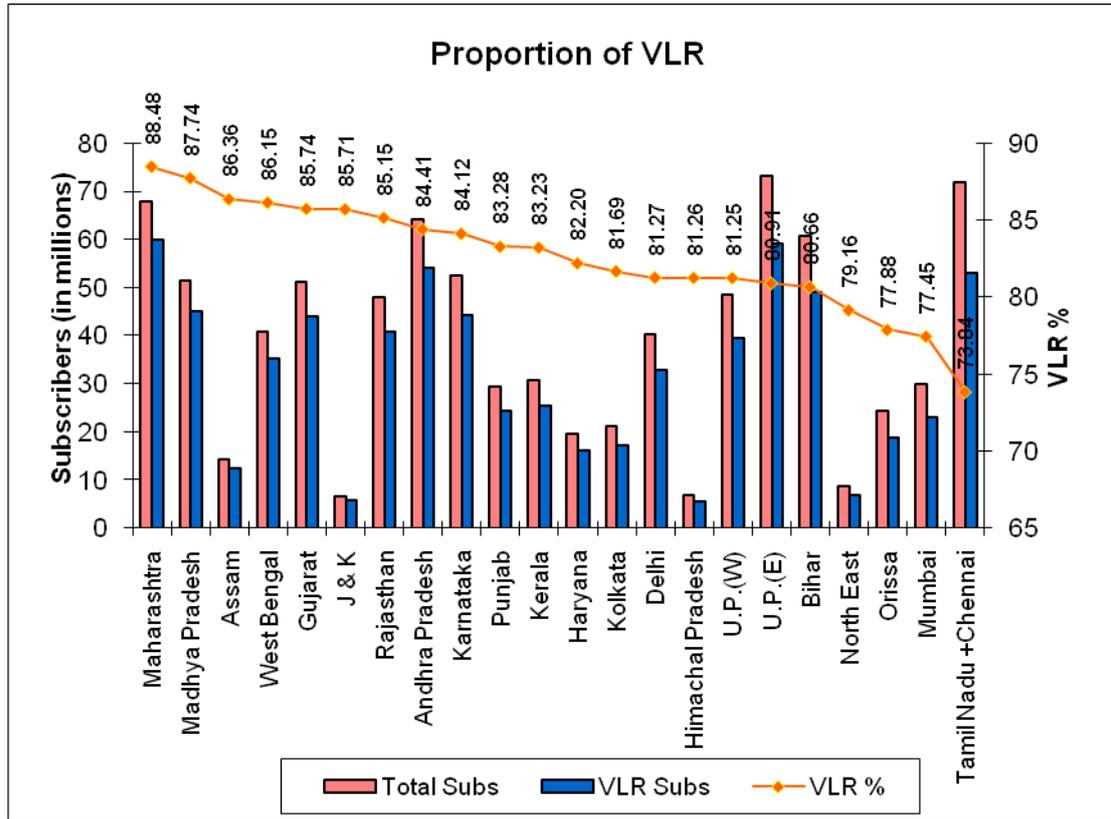


#### B. Service Provider wise growth in total subscribers (Jan.2013 – Feb.2013)

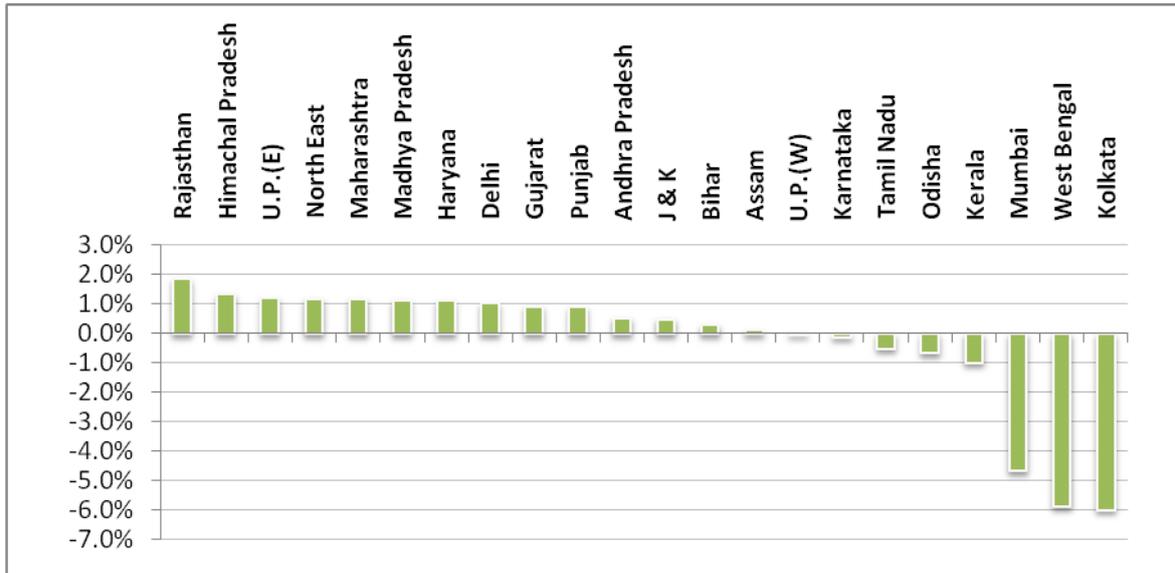


\* The total active VLR number excludes the CDMA VLR figure of M/s BSNL as the service provider has not provided the VLR figures of their total CDMA subscriber base of 2.72 million.

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



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



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

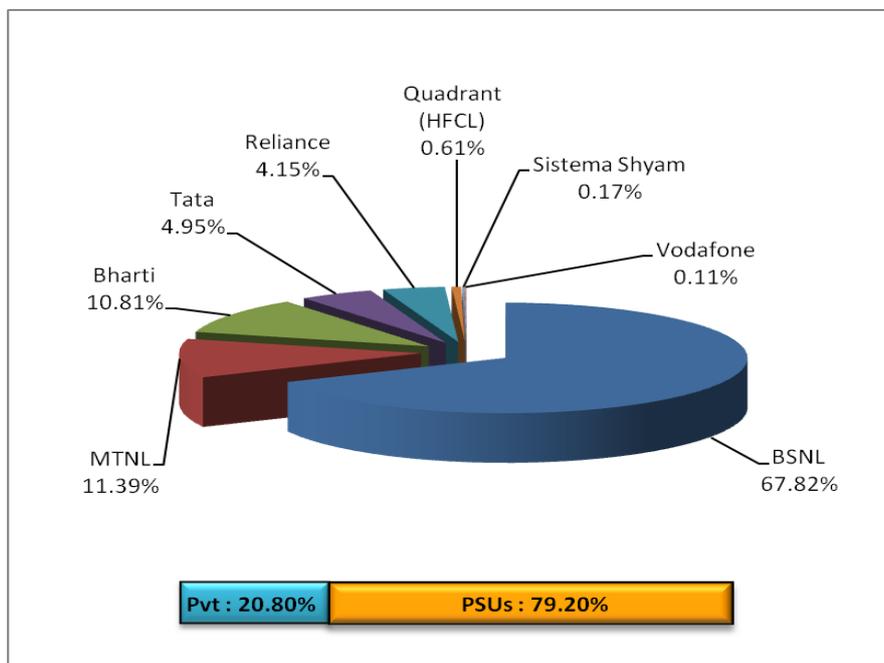
As per the data reported by the service providers, by the end of February 2013 about 86.83 million subscribers have submitted their requests to different service providers for porting their mobile number. In MNP Zone-I (Northern & Western India) maximum number of requests have been received in Rajasthan (8.25 million) followed by Gujarat (7.56 million) whereas in MNP Zone-II (Southern & Eastern) maximum number of requests have been received in Karnataka (10.45 million) followed by Andhra Pradesh Service area (7.84 million). In the month of February 2013, total number of subscribers who have submitted their request for MNP is 2.57 million. The status of MNP requests in various service areas is given below:

<b>Service Area Wise MNP Status at the end of February 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	2843830	Andhra Pradesh	7836324
Gujarat	7556671	Assam	341678
Himachal Pradesh	323090	Bihar	1731697
Haryana	3117632	Karnataka	10449485
Jammu & Kashmir	14925	Kerala	3619041
Maharashtra	7127713	Kolkata	1965931
Mumbai	3089092	Madhya Pradesh	5131575
Punjab	2811661	North East	153704
Rajasthan	8249830	Orissa	1911286
Uttar Pradesh - East	5248290	Tamil Nadu	5093366
Uttar Pradesh - West	5066739	West Bengal	3147469
<b>Total</b>	<b>45,449,473</b>	<b>Total</b>	<b>41,381,556</b>
<b>Total (Zone-1 + Zone-2)</b>			<b>86,831,029</b>
<b>Net Addition (in February 2013)</b>			<b>2,566,464</b>

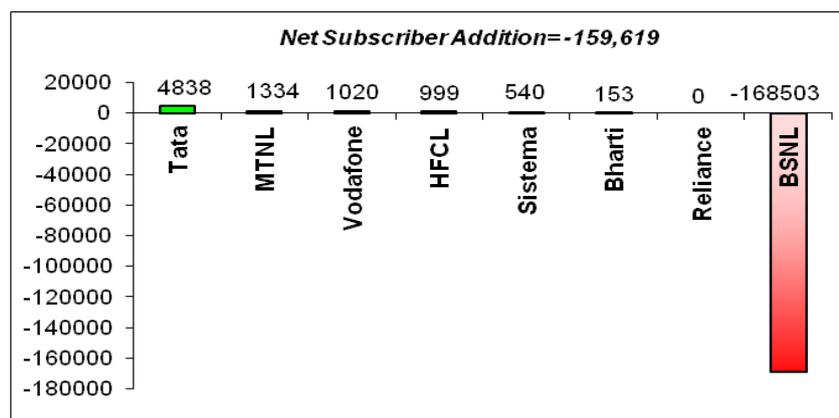
## v. Wireline Segment

Wireline subscriber base declined from 30.52 million at the end of January 2013 to 30.36 Million at the end of February 2013. Net reduction in wireline subscriber base was 0.16 million. The share of urban subscribers has increased from 77.54% to 77.65% where as share of rural subscribers has declined from 22.57% to 22.35%. The overall wireline Teledensity has marginally decreased from 2.50 in January 2013 to 2.48 in February 2013, with urban and rural Teledensity being 6.32 and 0.80 respectively. BSNL and MTNL, the two PSU operators hold 79.20% of the Wireline market share. Detailed statistics is at Annexure-III. The graphical presentation of market share of all service providers as on 28<sup>th</sup> February 2013 is given below:

### A. Service Provider wise Market Share as on 28<sup>th</sup> February 2013



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



## **VI. Category wise Growth**

- As can be seen from the following tables, the Circles in Category Metro show the highest reduction in subscriber base and highest rate of decline in wireless segment. In wireline segment, Circles in Category B show the highest reduction and highest rate of decline in subscriber base from January 2013 to February 2013.

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

Category	Net Additions during the month of February, 2013		Subscriber Base as on 28 <sup>th</sup> February, 2013	
	Wireline	Wireless	Wireline	Wireless
Circle A	-52529	1185290	12088379	307337169
Circle B	-106450	-23747	9490709	341139550
Circle C	-4190	269404	1683540	121797743
Metro	3550	-2394636	7099266	91385635
<b>All India</b>	<b>-159619</b>	<b>-963689</b>	<b>30361894</b>	<b>861660097</b>

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

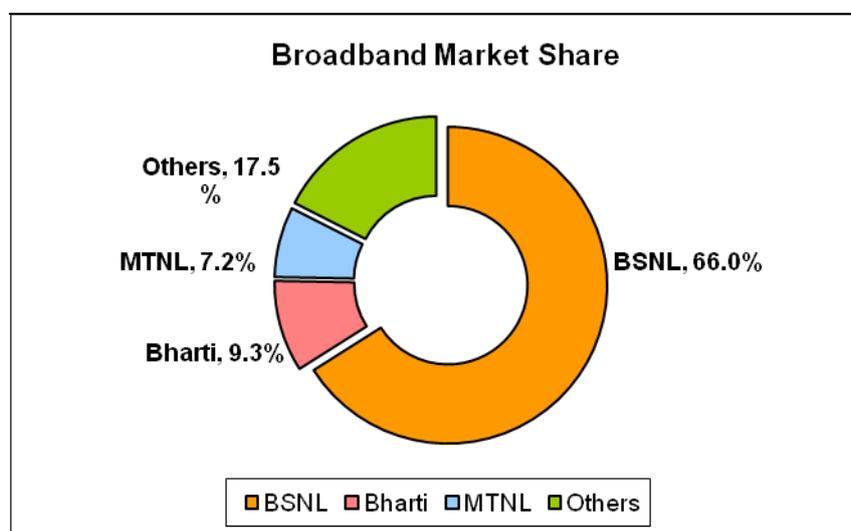
Category	Monthly Rate of Growth (Jan-2013 to Feb-2013)		Yearly rate of growth (Feb-2012 to Feb-2013)	
	Wireline	Wireless	Wireline	Wireless
Circle A	-0.43%	0.39%	-5.23%	-4.56%
Circle B	-1.11%	-0.01%	-8.87%	-5.40%
Circle C	-0.25%	0.22%	-18.66%	-2.82%
Metro	0.05%	-2.55%	0.18%	-11.45%
<b>All India</b>	<b>-0.52%</b>	<b>-0.11%</b>	<b>-6.07%</b>	<b>-5.43%</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 decreased from 15.01 million at the end of January 2013 to 15.00 million at the end of February 2013, there by showing a monthly decline of 0.12%. Yearly growth in broadband subscribers is 10.76% during the last one year (February 2012 to February 2013).

As on 28<sup>th</sup> February 2013, there are 160 Internet Service Providers (ISPs) which are providing broadband services in the country. Out of these, 116 ISPs have provided broadband subscription data for the month of February 2013, for the rest of the ISPs data from previous month has been retained (Data from top 10 ISPs, which constitute 93.29% of the total subscriber base, have been received for the month of February 2013). Top five ISPs in terms of market share (based on subscriber base) are: BSNL (9.90 million), Bharti Airtel (1.40 million), MTNL (1.08 million), Hathway (0.37 million) and You Broadband (0.30 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	
	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13
Andhra Pradesh	17884934	18073838	6778745	6802433	5688911	5778818	6659964	6608357	10838496	11028106	1802320	1737528	9257286	9293378
Assam	3851324	3913580	3048336	2999849	2208121	2261140	0	0	382840	390808	3550416	3489733	1230918	1233664
Bihar	18798853	19030808	9205292	9376863	6381973	6534555	3745212	3692033	5587271	5804509	4767543	4708622	5975541	5937547
Delhi	9105754	9237092	7441989	7504418	8460140	8532942	3756016	3680987	4737090	4847130	2850948	2977541	0	0
Gujarat	6983467	7118857	6723250	6816127	15811116	15923000	2956176	2924660	8226195	8371913	294655	285773	4265027	4279472
Haryana	2260697	2322571	2127552	2187087	4460102	4531932	2667699	2691195	3614670	3692015	185758	136164	3052798	3072996
Himachal Pradesh	1914645	1937743	1466812	1499537	476232	484109	190353	194462	448972	458451	699378	700377	1601048	1615343
J & K	2320283	2339979	606341	609887	610925	615170	0	0	208269	213144	1808200	1811719	1162539	1160725
Karnataka	16005226	16127194	6422020	6580234	6578801	6736183	6020557	5965939	6070121	6230037	1563895	1645151	7022983	7069786
Kerala	3464751	3469262	2886400	2901632	6099518	6125220	1896682	1848834	7869341	7899566	354883	254883	7666262	7704749
Kolkata	3662644	3706490	4123621	4067917	4138689	4134289	2885466	2899705	1250623	1356819	1852675	1864985	2295804	2291249
Madhya Pradesh	9796757	10011052	11585308	11725325	3966891	4143942	3896930	3887209	14991810	15302156	653287	449142	5140167	5189474
Maharashtra	9930085	10031175	7731522	7761162	13074351	13253528	6340285	6242568	15840410	16100407	1134782	1156328	6737300	6800108
Mumbai	3559119	3715473	5984368	6022196	6110330	6225520	3432943	3459298	2886271	3020837	1450948	1521432	0	0
North East	2610008	2678086	836595	848419	939346	977465	0	0	267417	280581	2338464	2304906	1733524	1740290
Orissa	6756065	6832101	3664119	3960476	2875352	2959711	2142853	2126247	963793	1037157	2893967	2887890	4470678	4503672
Punjab	6857498	6981282	2847712	2965174	4329581	4379563	2455289	2451338	5565174	5685664	972375	976158	4397239	4395144
Rajasthan	14379504	14606583	5385665	5523281	8637532	8809378	2985998	2929302	4674801	4905975	2792442	2924732	5911845	5941861
Tamil Nadu (incl. Chenna)	13343591	13420423	6541975	6766894	11961249	12109051	5508564	5383852	2228730	2312515	21367505	21091123	9489101	9521638
U.P.(E)	15013282	15182417	9661637	9690036	14491774	14651478	4083136	3998030	6968905	7153339	3774238	3979710	10303309	10382710
U.P.(W)	6532214	6619012	6587565	6602737	9031358	9263575	3931987	3895159	10385262	10626274	1409150	909150	4903491	4915270
West Bengal	9162866	9267102	6650979	6734295	11367866	11456196	2125904	2110600	2393404	2572535	3053462	3059738	3624033	3621491
<b>Total</b>	<b>184193567</b>	<b>186622120</b>	<b>118307803</b>	<b>119945979</b>	<b>147700158</b>	<b>149886765</b>	<b>67682014</b>	<b>66989775</b>	<b>116399865</b>	<b>119289938</b>	<b>61571291</b>	<b>60872785</b>	<b>100240893</b>	<b>100670567</b>

## Wireless Subscriber Base

## Annexure-I

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Circle	Group												Total	
	MTNL		Unitech		Sistema		Loop		Videocon		Quadrant (HFCL)		Jan-13	Feb-13
	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13
Andhra Pradesh	0	0	4226266	4189040	637894	607894	0	0	0	0	0	0	63774816	64119392
Assam	0	0	776	0	1280	1280	0	0	0	0	0	0	14274011	14290054
Bihar	0	0	4750129	4462694	1314278	1162785	0	0	18596	18596	0	0	60544688	60729012
Delhi	2590274	2582411	0	0	929889	922334	0	0	0	0	0	0	39872100	40284855
Gujarat	0	0	4650839	4736823	224103	220479	0	0	618785	551701	0	0	50753613	51228805
Haryana	0	0	405	0	147716	139437	0	0	794797	755961	0	0	19312194	19529358
Himachal Pradesh	0	0	143	0	71	71	0	0	0	0	0	0	6797654	6890093
J & K	0	0	312	0	21	21	0	0	0	0	0	0	6716890	6750645
Karnataka	0	0	686045	0	2137127	2093480	0	0	0	0	0	0	52506775	52448004
Kerala	0	0	263745	0	501620	494203	0	0	0	0	0	0	31003202	30698349
Kolkata	0	0	1456841	0	882258	879707	0	0	0	0	0	0	22548621	21201161
Madhya Pradesh	0	0	1255	0	3153	3155	0	0	806625	715612	0	0	50842183	51427067
Maharashtra	0	0	5502934	5743249	651414	641408	0	0	0	0	0	0	66943083	67729933
Mumbai	2607846	2503773	1868314	0	447707	443114	3011704	2987976	0	0	0	0	31359550	29899619
North East	0	0	90	0	151	151	0	0	0	0	0	0	8725595	8829898
Orissa	0	0	701887	0	787	787	0	0	0	0	0	0	24469501	24308041
Punjab	0	0	411	0	1146	1146	0	0	0	0	1588395	1443279	29014820	29278748
Rajasthan	0	0	1032	0	2188875	2187310	0	0	0	0	0	0	46957694	47828422
Tamil Nadu (incl. Chennai)	0	0	505180	0	1227697	1205539	0	0	0	0	0	0	72173592	71811035
U.P.(E)	0	0	7399456	7544741	537198	525862	0	0	14629	14628	0	0	72247564	73122951
U.P.(W)	0	0	5119624	5094227	570069	552192	0	0	3622	3621	0	0	48474342	48481217
West Bengal	0	0	2983788	0	1948996	1951481	0	0	0	0	0	0	43311298	40773438
<b>Total</b>	<b>5198120</b>	<b>5086184</b>	<b>40119472</b>	<b>31770774</b>	<b>14353450</b>	<b>14033836</b>	<b>3011704</b>	<b>2987976</b>	<b>2257054</b>	<b>2060119</b>	<b>1588395</b>	<b>1443279</b>	<b>862623786</b>	<b>861660097</b>

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

Circle	Aircel	Bharti	BSNL (Except CDMA)	HFCL	Idea	Loop	MTNL	Reliance	Sistema	Tata	Unitech	Videocon	Vodafone	Total
Andhra Pradesh	50.64	97.05	69.36		98.05			81.30	51.72	75.51	57.71		89.88	84.41
Assam	86.31	97.70	71.35		89.99			69.65	77.11				96.57	86.36
Bihar	58.92	98.05	34.77		100.02			84.69	42.39	57.34	61.23	0.81	97.90	80.66
Delhi	61.32	82.60			97.33		47.46	93.69	41.72	57.43			91.55	81.27
Gujarat	33.12	95.34	60.28		97.69			90.06	38.68	60.83	58.68	74.18	94.79	85.74
Haryana	43.82	96.27	50.91		97.79			92.73	29.44	62.91		62.23	95.99	82.20
Himachal Pradesh	58.92	95.84	65.54		101.37			81.87	130.99	56.48			96.71	81.26
J & K	90.19	95.56	67.07		87.61			63.42	38.10				91.65	85.71
Karnataka	1.37	98.88	54.61		95.33			82.10	58.56	77.18			91.62	84.12
Kerala	472.45	94.68	63.86		99.68			76.25	54.56	75.26			90.99	83.23
Kolkata	64.57	93.04	34.82		89.87			95.51	50.57	80.55			96.34	81.69
Madhya Pradesh	2.23	95.43	53.18		103.94			86.59	33.47	70.65		64.15	85.35	87.74
Maharashtra	48.03	95.52	69.95		99.56			90.95	53.78	80.96	61.13		98.36	88.48
Mumbai	57.81	96.13			91.45	46.28	34.63	92.78	28.71	66.34			91.30	77.45
North East	72.93	96.43	52.72		82.53			81.89	166.89				90.23	79.16
Orissa	55.55	97.43	58.08		81.52			75.27	69.63	73.01			90.39	77.88
Punjab	44.96	95.47	54.67	59.68	96.23			92.26	21.47	67.84			94.66	83.28
Rajasthan	78.58	92.68	46.83		105.74			94.34	49.65	65.52			98.81	85.15
Tamil Nadu (incl. Chennai)	60.19	93.26	49.55		75.40			85.45	57.90	62.87			94.85	73.84
U.P. (E)	66.97	96.24	44.19		101.07			82.76	33.24	65.17	66.88	0.62	97.07	80.91
U.P. (W)	48.83	87.75	46.29		97.04			84.99	34.41	61.79	66.21	0.66	96.84	81.25
West Bengal	63.38	96.93	48.72		95.91			94.09	60.56	57.33			98.15	86.15
<b>Total</b>	<b>62.59</b>	<b>95.12</b>	<b>54.17</b>	<b>59.68</b>	<b>98.37</b>	<b>46.28</b>	<b>41.14</b>	<b>86.74</b>	<b>50.34</b>	<b>68.62</b>	<b>62.51</b>	<b>64.99</b>	<b>94.99</b>	<b>82.69</b>

Wireline Subscriber Base																	Annexure-III	
Circle	Group																Total	
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant (HFCL)		Sistema		Vodafone		Total	
	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13	Jan-13	Feb-13
Andhra Pradesh	1868092	1857263			125749	125755	89788	89788	169472	169422					5400	5,430	2258501	2247658
Assam	193965	193484							0	0					150	240	194115	193724
Bihar	376232	377241					4978	4978	11179	11199					60	60	392449	393478
Delhi	0	0	1586226	1589719	1082791	1082846	187050	187050	91407	93533					8580	8,790	2956054	2961938
Gujarat	1564601	1565346			55432	55434	100845	100845	69185	69909					330	360	1790393	1791894
Haryana	509455	505,551			23946	23947	5171	5171	27524	27424							566096	562093
Himachal Pradesh	283597	280,351					4492	4492	2267	2259							290356	287102
J & K	197867	196,894							0	0							197867	196894
Karnataka	1698816	1692804			492064	492087	113671	113,671	139448	140752					3330	3,420	2447329	2442734
Kerala	2963352	2954754			55934	55936	54440	54440	11732	11726							3085458	3076856
Kolkata	935168	933919			93972	93977	81465	81465	37357	36235					1440	1,440	1149402	1147036
Madhya Pradesh	835744	831020			241921	241932	28215	28215	15445	15577					60	60	1121385	1116804
Maharashtra	2097654	2065992			70357	70360	101817	101817	246170	245422					2640	2,670	2518638	2486261
Mumbai	0	0	1869325	1867166	331937	331952	236042	236042	546146	548202					6810	6,930	2990260	2990292
North East	216915	216859							0	0							216915	216859
Orissa	385484	385096					3591	3591	6713	6556					240	240	396028	395483
Punjab	1019448	998508			105979	105983	26543	26543	16466	16636	184716	185715			270	300	1353422	1333685
Rajasthan	928757	904855			39384	39386	24750	24750	6981	6964			50570	51110	240	240	1050682	1027305
Tamil Nadu (incl. Chennai)	2416073	2408645			486146	486167	148268	148268	73760	74682					1800	2070	3126047	3119832
U.P.(E)	950351	947448			50583	50585	40517	40517	13470	13562					420	450	1055341	1052562
U.P.(W)	734046	732280			24322	24323	5546	5546	8539	8656					120	210	772573	771015
West Bengal	583990	542794					2112	2112	6100	5483							592202	550389
<b>Total</b>	<b>20759607</b>	<b>20591104</b>	<b>3455551</b>	<b>3456885</b>	<b>3280517</b>	<b>3280670</b>	<b>1259301</b>	<b>1259301</b>	<b>1499361</b>	<b>1504199</b>	<b>184716</b>	<b>185715</b>	<b>50570</b>	<b>51110</b>	<b>31890</b>	<b>32910</b>	<b>30521513</b>	<b>30361894</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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