

**TELECOM REGULATORY AUTHORITY OF INDIA**

New Delhi, 17<sup>th</sup> February, 2014  
(www.trai.gov.in)

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

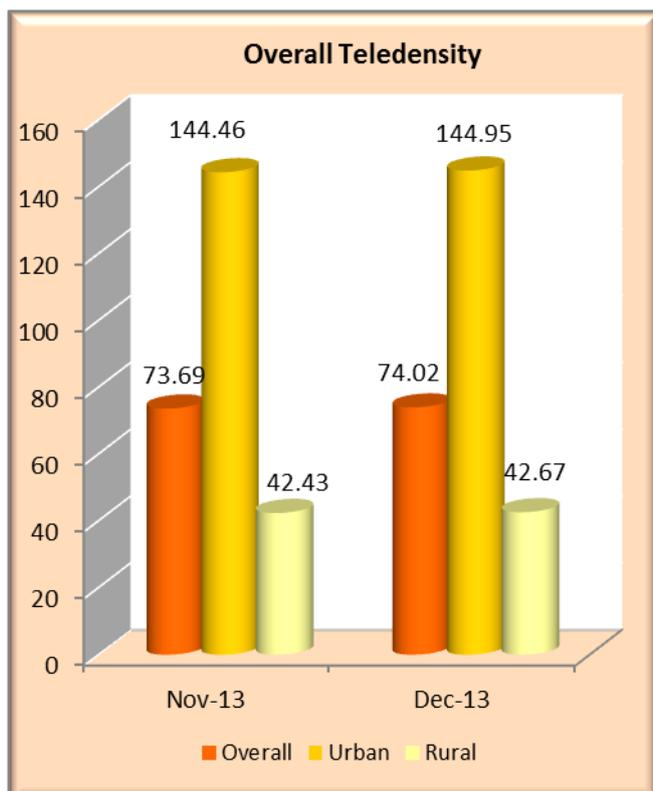
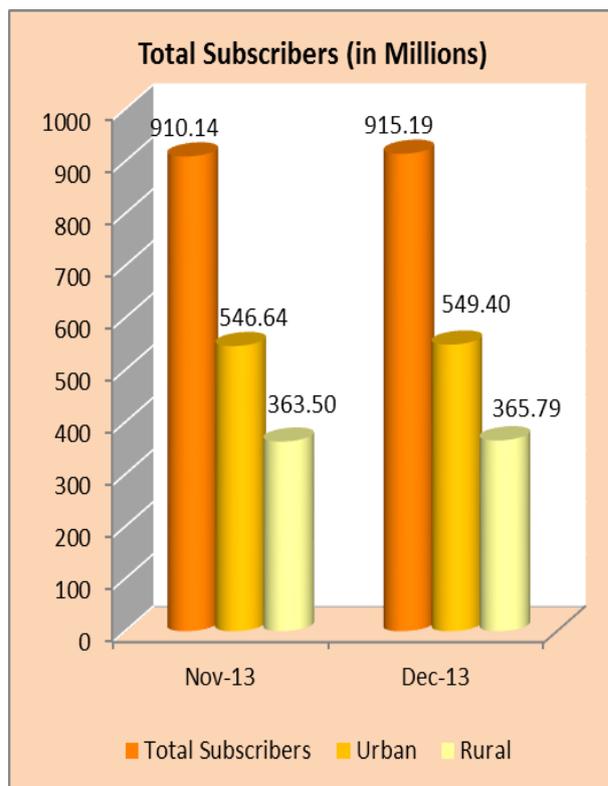
Particulars	Wireless	Wireline	Total Wireless + Wireline
<b>Total Subscribers</b> (Millions)	<b>886.30</b>	<b>28.89</b>	<b>915.19</b>
Total Net Monthly Addition (Millions)	5.16	-0.11	5.05
Monthly Growth	0.59%	-0.38%	0.56%
<b>Urban Subscribers</b> (Millions)	<b>526.63</b>	<b>22.77</b>	<b>549.40</b>
Urban Subscribers Net Monthly Addition (Millions)	2.83	-0.06	2.77
Monthly Growth	0.54%	-0.28%	0.51%
<b>Rural Subscribers</b> (Millions)	<b>359.67</b>	<b>6.12</b>	<b>365.79</b>
Rural Subscribers Net Monthly Addition (Millions)	2.33	-0.05	2.29
Monthly Growth	0.65%	-0.76%	0.63%
<b>Overall Teledensity*</b>	<b>71.69</b>	<b>2.34</b>	<b>74.02</b>
Urban Teledensity*	138.94	6.01	144.95
Rural Teledensity*	41.95	0.71	42.67
Share of Urban Subscribers	59.42%	78.81%	60.03%
Share of Rural Subscribers	40.58%	21.19%	39.97%

- ❖ Mobile Number Portability requests increased from 106.87 million subscribers at the end of November, 2013 to 109.37 million at the end of December, 2013. In the month of December, 2013 alone 2.50 million requests have been made for MNP.
- ❖ Active wireless subscribers on the date of Peak VLR in December, 2013 are 762.40 million, 86.02% of the total subscribers.
- ❖ Total Broadband ( $\geq$  512 Kbps) subscription is 55.20 million at the end of December, 2013. Out of which, wired broadband subscription is 14.54 million and wireless broadband subscription is 40.66 million.

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

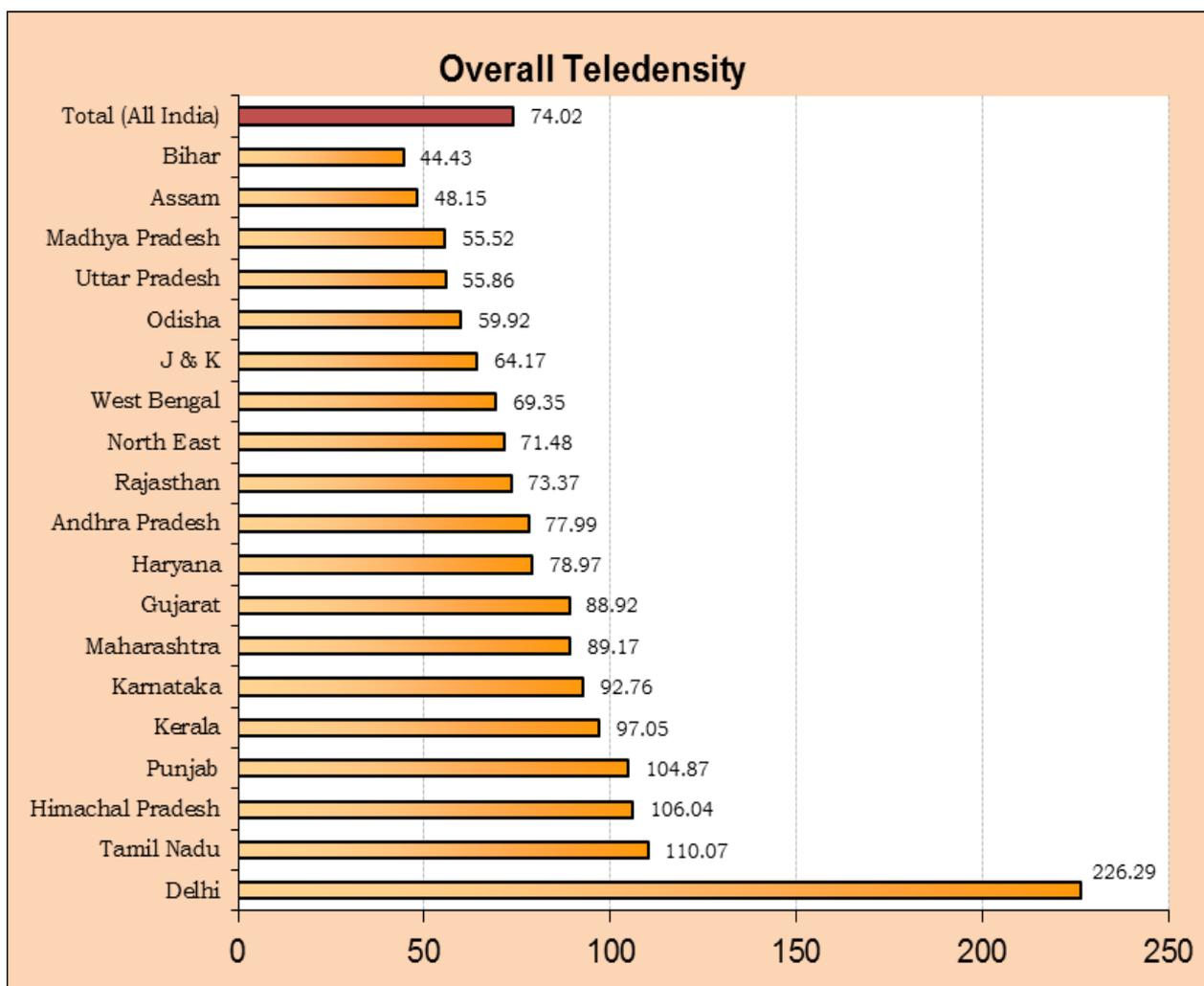
## I. Total Telephone Subscribers

• The number of telephone subscribers in India increased from 910.14 million at the end of November, 2013 to 915.19 million at the end of December 2013, thereby showing a monthly growth of 0.56%. The share of urban subscribers has marginally declined from 60.06% to 60.03% whereas share of rural subscribers has marginally increased from 39.94% to 39.97% in the month of December 2013. With this, the overall Teledensity in India increased from 73.69 at the end of November, 2013 to 74.02 at the end of December, 2013.



• Subscription in the urban areas increased from 546.64 million in November, 2013 to 549.40 million at the end of December, 2013. Subscription in rural areas increased from 363.50 million to 365.79 million during the same period. The monthly growth rate of urban and rural subscription is 0.51% and 0.63% respectively. The overall urban Teledensity has increased from 144.46 to 144.95 and Rural Teledensity increased from 42.43 to 42.67 in this month.

## Overall Teledensity (Circle Wise) – As on 31<sup>st</sup> December, 2013

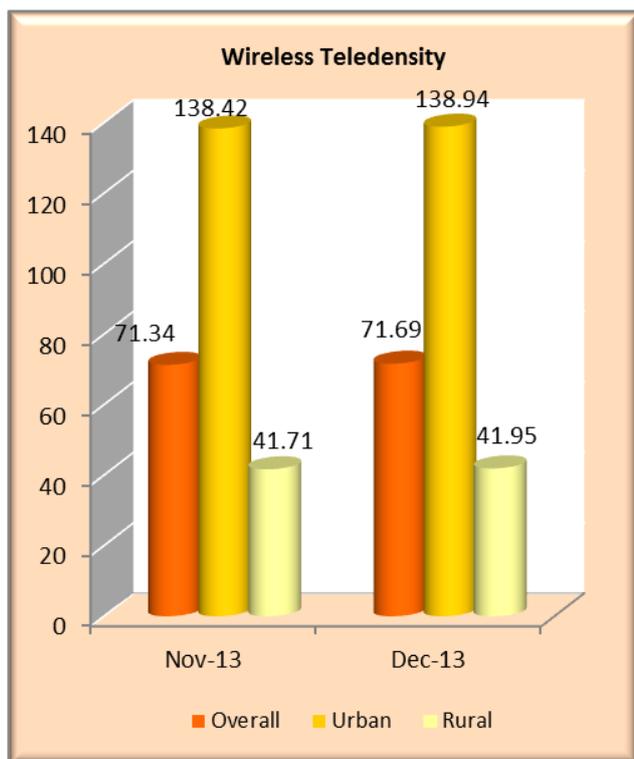
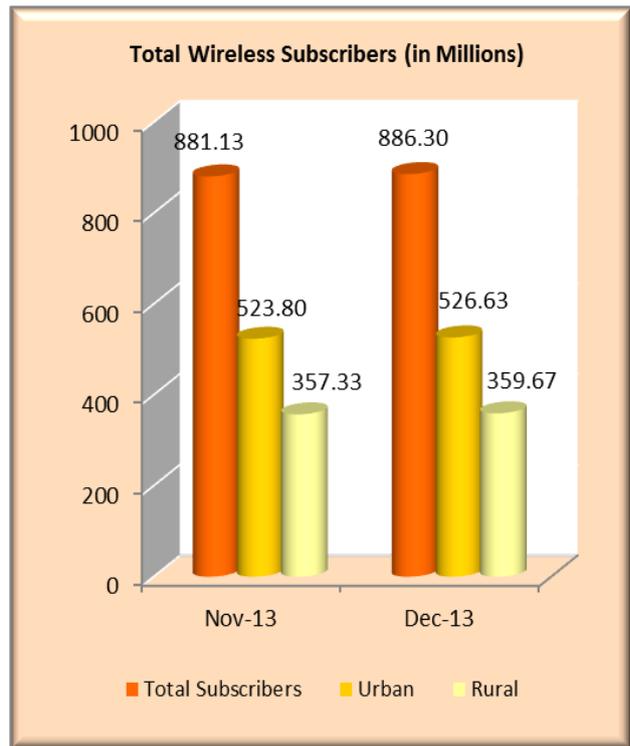


### Notes:

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)

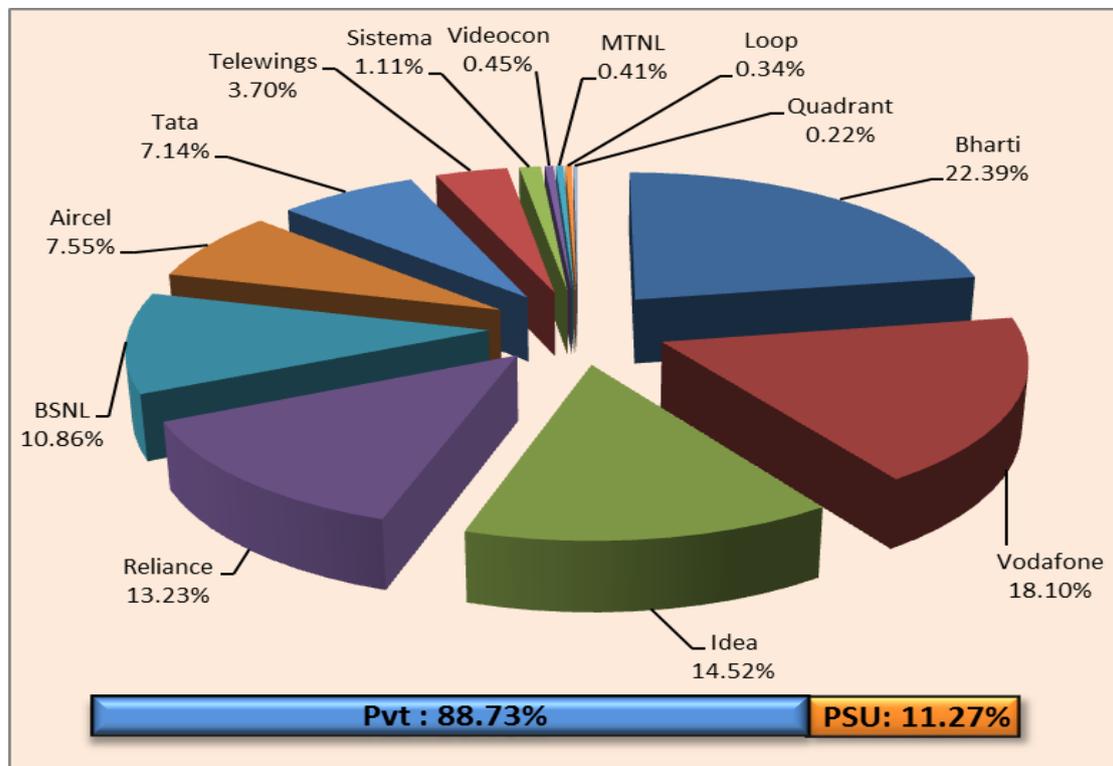
- Total wireless subscriber base increased from 881.13 million in November, 2013 to 886.30 million at the end of December 2013, registering a monthly growth of 0.59%. The share of urban wireless subscribers has marginally declined from 59.45% to 59.42% whereas share of rural wireless subscribers has marginally increased from 40.55% to 40.58%. The overall wireless Teledensity in India has reached to 71.69 from 71.34 of previous month.



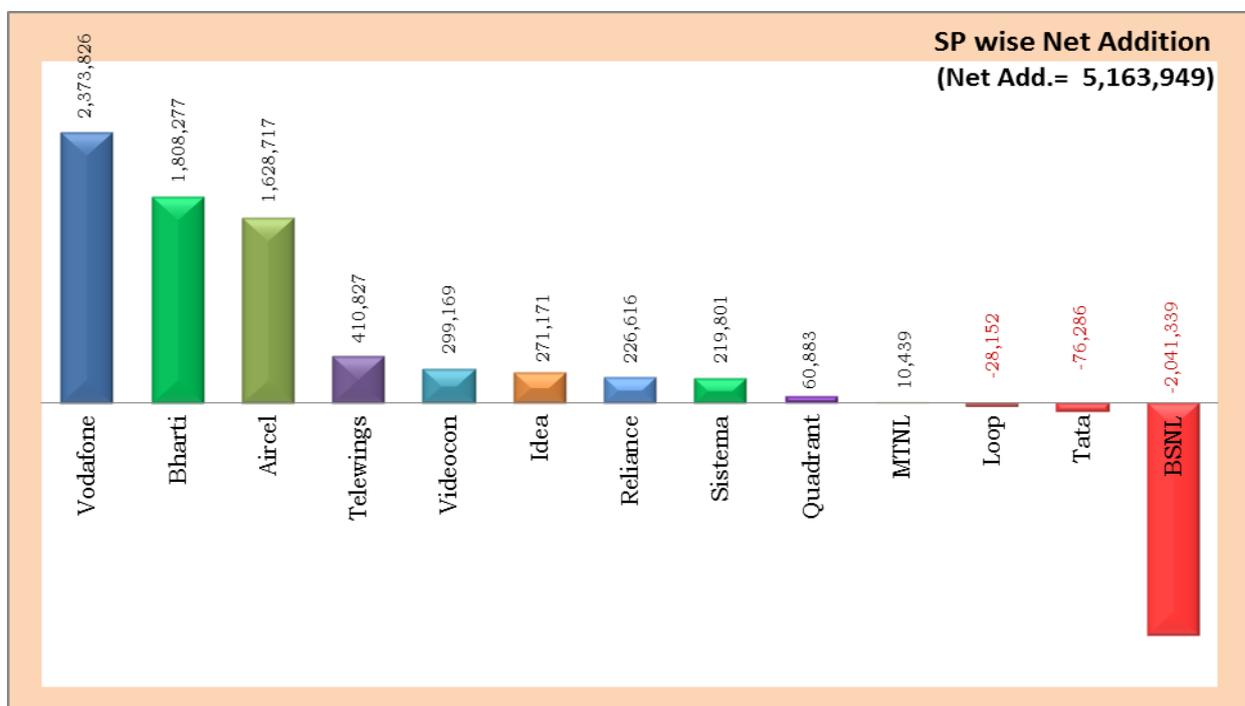
- Wireless subscription in urban areas increased from 523.80 million in November, 2013 to 526.63 million at the end of December, 2013. The wireless subscription in rural areas increased from 357.33 million to 359.67 million during the same period. The urban wireless Teledensity has increased from 138.42 to 138.94 and rural Teledensity has increased from 41.71 to 41.95. Detailed statistics of wireless subscriber base is available at Annexure-I.

- Private operators hold 88.73% of the wireless subscriber market share where as BSNL and MTNL, the two PSU operators hold only 11.27% market share. The graphical representations of market shares and shares in net additions of all the service providers during the month of December, 2013 are given below:

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



**B. Service Provider wise net subscriber addition during December, 2013**

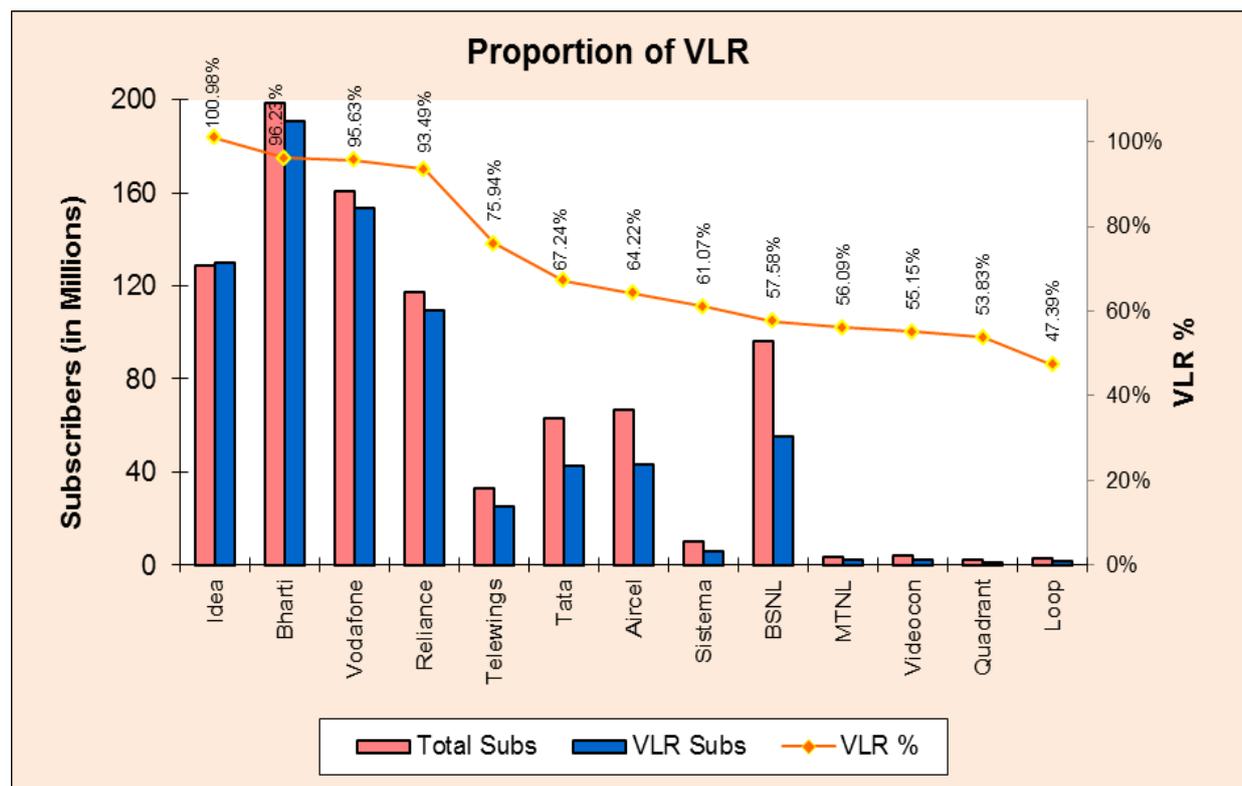


### III. VLR Data

Out of the total 886.30 million wireless subscribers, 762.40 million were active on the date of Peak VLR for the month of December 2013. The proportion of VLR subscribers is approximately 86.02% of the total wireless subscriber base reported by the service providers.

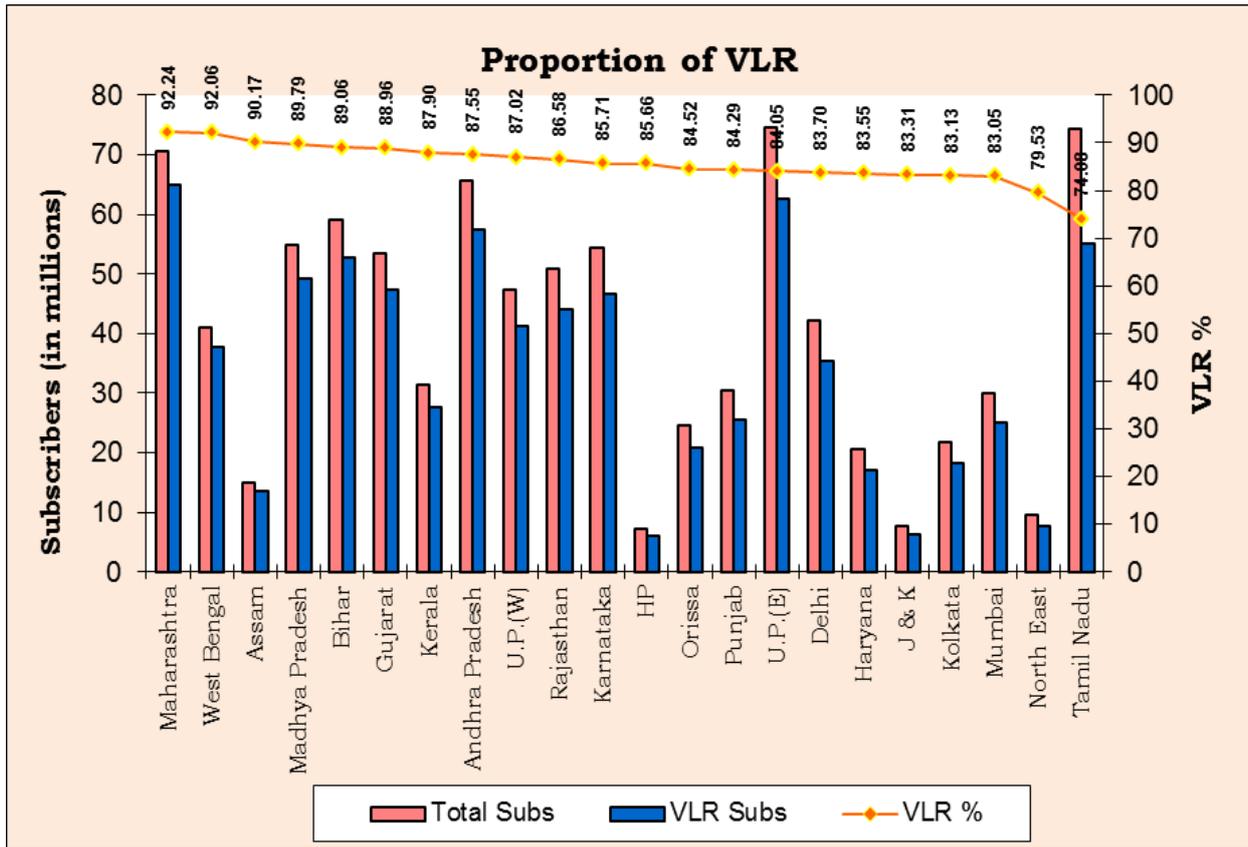
Service Provider wise, Idea leads the tally with 100.98% followed by Bharti (96.23%) and Vodafone (95.63%). Loop has the lowest proportion of VLR with 47.39%. Circle-wise, Maharashtra has the highest proportion of VLR subscribers with 92.24% followed by West Bengal (92.06%) and Assam (90.17%). Tamil Nadu (incl. Chennai) has the lowest VLR proportion with 74.08%. 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) – December, 2013

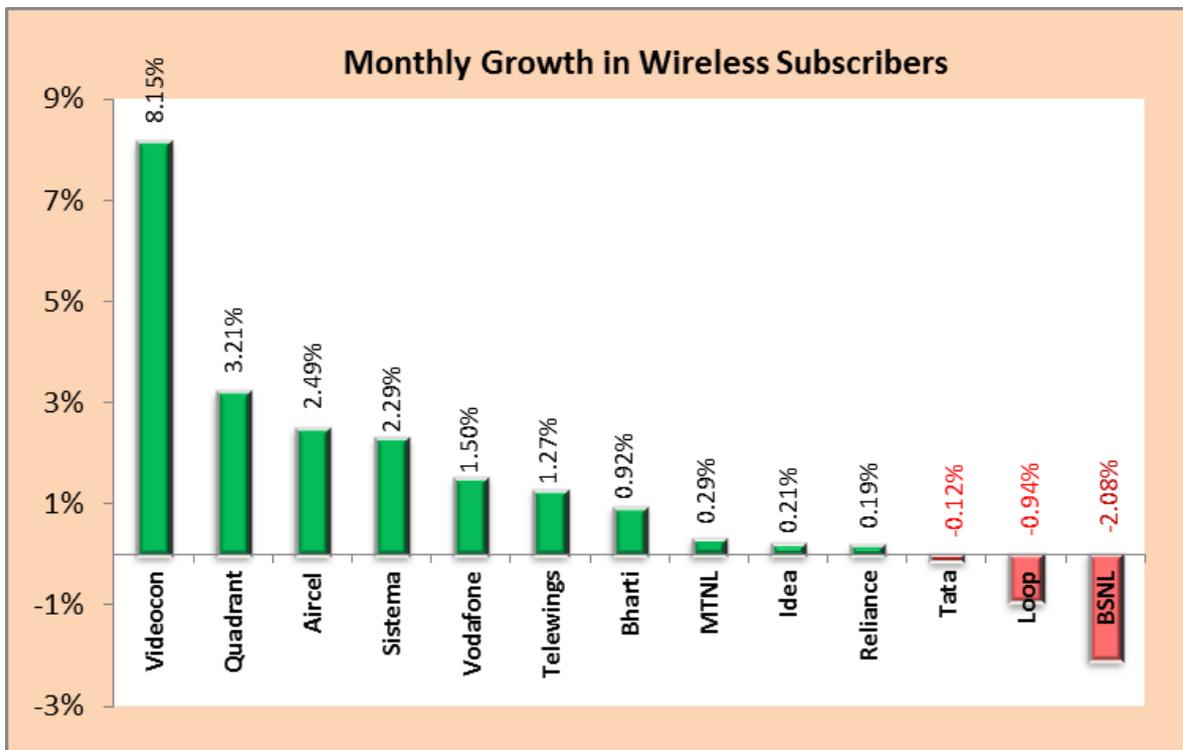


Note : 1. Peak VLR of M/s Idea Cellular is more than its HLR due to more number of inroamers.  
 2. Telewings was formerly known as Unitech.

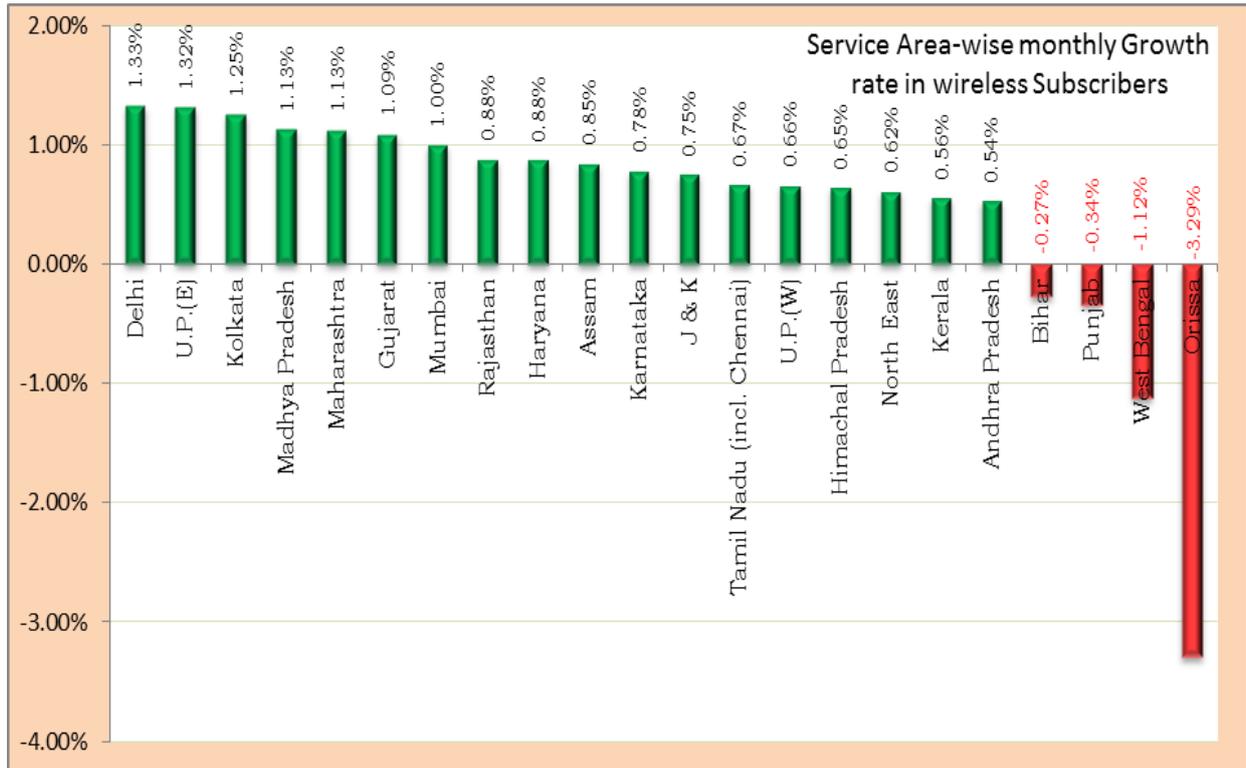
**C. Proportion of VLR subscribers (Service Area wise) - December, 2013**



**D. Service Provider wise monthly growth in total wireless subscribers during December, 2013**



**E. Service Area wise monthly growth in total wireless subscribers during December, 2013**



**IV. Mobile Number Portability**

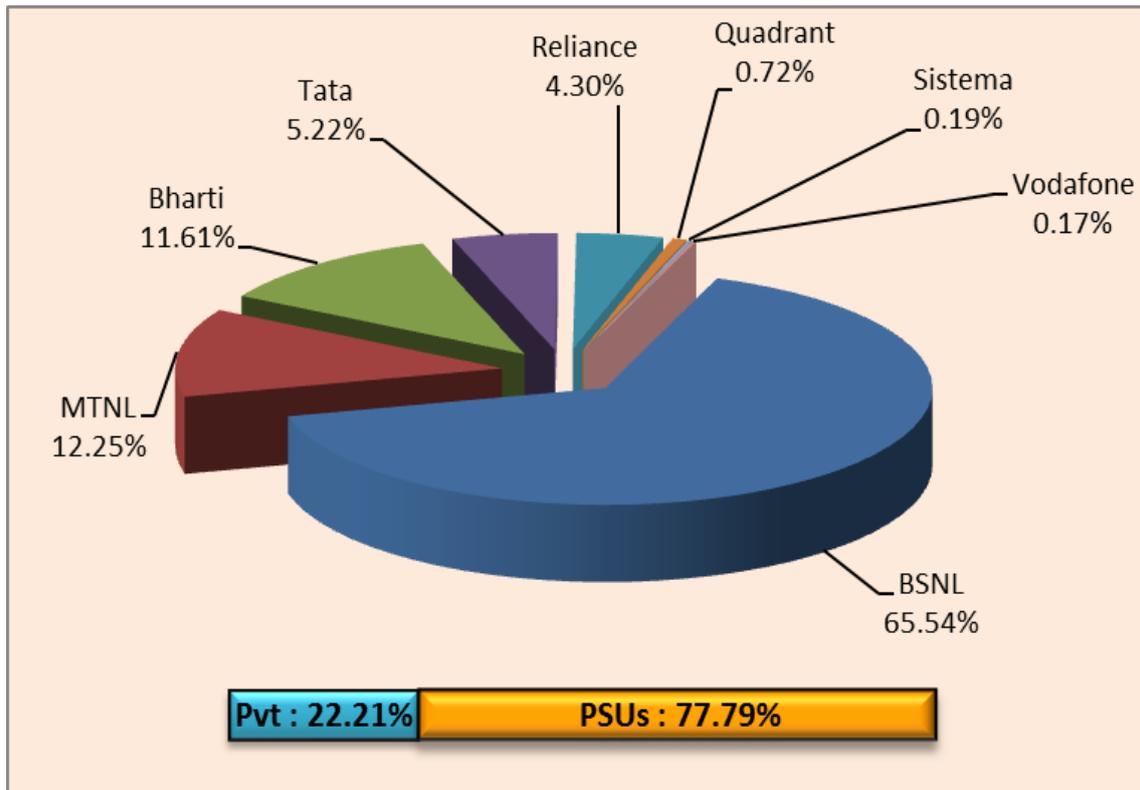
As per the data reported by the service providers, by the end of December 2013 about 109.37 million subscribers have submitted their requests to different service providers for porting their mobile number. In MNP Zone-I (Northern & Western India) maximum number of requests have been received in Rajasthan (about 10.97 million) followed by Gujarat (about 9.45 million) whereas in MNP Zone-II (Southern & Eastern) maximum number of requests have been received in Karnataka (about 12.54 million) followed by Andhra Pradesh Service area (about 10.04 million). In the month of December 2013, total number of subscribers who have submitted their request for MNP is 2.50 million. The status of MNP requests in various service areas is given below:

Zone - 1		Zone - 2	
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	4026208	Andhra Pradesh	10036831
Gujarat	9447677	Assam	394728
Himachal Pradesh	383578	Bihar	2508507
Haryana	4077022	Karnataka	12539582
Jammu & Kashmir	19796	Kerala	4307094
Maharashtra	8741980	Kolkata	2403264
Mumbai	4449915	Madhya Pradesh	6219842
Punjab	3727175	North East	187845
Rajasthan	10965519	Orissa	2301464
Uttar Pradesh - East	6160699	Tamil Nadu	6447447
Uttar Pradesh - West	6013630	West Bengal	4013585
<b>Total</b>	<b>58,013,199</b>	<b>Total</b>	<b>51,360,189</b>
<b>Total (Zone-1 + Zone-2)</b>		<b>109,373,388</b>	
<b>Net Addition (in December 2013)</b>		<b>2,498,576</b>	

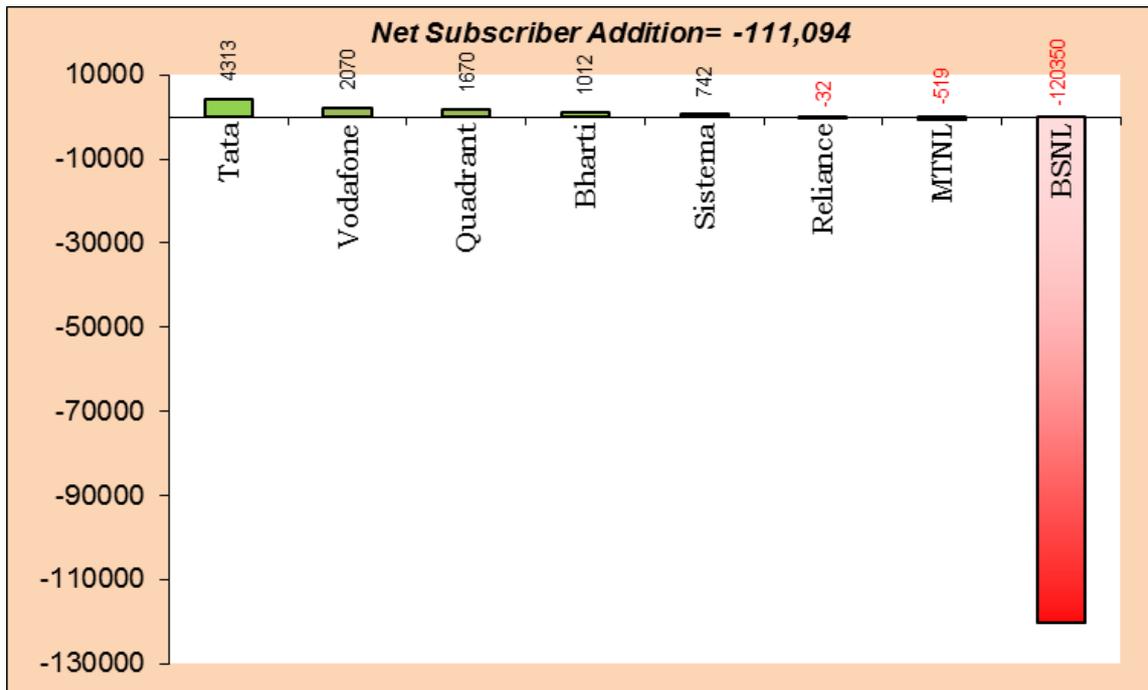
## **V. Wireline Segment**

Wireline subscriber base declined from 29.01 million at the end of November, 2013 to 28.89 Million at the end of December, 2013. Net reduction in wireline subscriber base was 0.11 million at the decline rate of 0.38%. The share of urban subscribers has increased from 78.73% to 78.81% whereas share of rural subscribers has decreased from 21.27% to 21.19%. The overall wireline Teledensity has slightly decreased from 2.35 in November, 2013 to 2.34 in December 2013, with urban and rural Teledensity being 6.01 and 0.71 respectively. BSNL and MTNL, the two PSU operators hold 77.79% of the Wireline market share. Detailed statistics of wireline subscriber base is at Annexure-III. The graphical presentation of market share of all service providers as on 31<sup>st</sup> December, 2013 is given below:

**F. Service Provider wise Market Share of wireline subscribers as on 31<sup>st</sup> December, 2013**



**G. Wireline Service Provider wise Net addition/decline during December, 2013**



Note : M/s Vodafone has informed that they have only Primary Rate Interfaces (PRIs) customer of wireline service.

## VI. Category wise Growth

- As can be seen from the following tables, the Circles in Category A show the highest net addition and circles in Metro show the highest rate of monthly growth of subscriber base in wireless segment. In wireline segment, Circles in Category B show the highest net decline and highest monthly decline rate in subscriber base from November, 2013 to December, 2013.

### Category wise Net Additions and subscriber base

Category	Net Additions during the month of December, 2013		Subscriber Base as on 31 <sup>st</sup> December, 2013	
	Wireline	Wireless	Wireline	Wireless
Circle A	-51167	2629390	11399508	318088174
Circle B	-54851	2125652	8752295	350878483
Circle C	-3083	-712623	1508485	123182445
Metro	-1993	1121530	7233960	94148815
<b>All India</b>	<b>-111094</b>	<b>5163949</b>	<b>28894248</b>	<b>886297917</b>

### Category-wise Growth Rate in Access Service

Category	Monthly Rate of Growth (Nov-2013 to Dec-2013)		Yearly rate of growth (Dec-2012 to Dec-2013)	
	Wireline	Wireless	Wireline	Wireless
Circle A	-0.45%	0.83%	-6.32%	3.57%
Circle B	-0.62%	0.61%	-9.46%	2.77%
Circle C	-0.20%	-0.58%	-18.96%	0.95%
Metro	-0.03%	1.21%	2.04%	-0.02%
<b>All India</b>	<b>-0.38%</b>	<b>0.59%</b>	<b>-6.15%</b>	<b>2.50%</b>

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

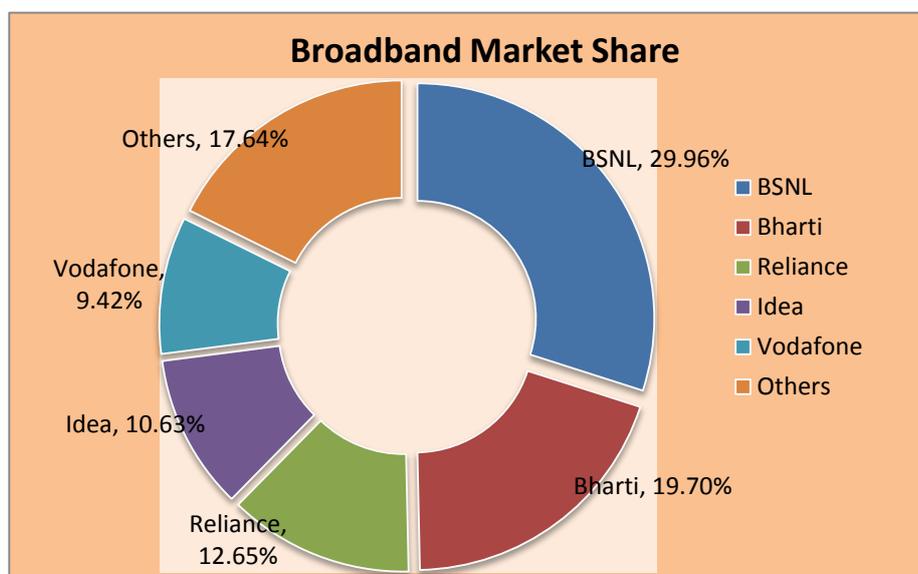
## VII. Broadband ( $\geq 512$ Kbps download)

- As per the reports received from the service providers, there are 55.20 Million Broadband subscribers in the country at the end of December, 2013. Segment wise broadband subscriber base are as below :

Sl. No.	Segment	Broadband subscribers (in million)
01	Wired Subscribers	14.54
02	Mobile devices users (Phones + Dongles)	40.27
03	Other Wireless (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.39
	<b>Total</b>	<b>55.20</b>

- Top five broadband service providers constitute 82.36% market share of total broadband subscribers. They are BSNL (16.54 million), Bharti (10.88 million), Reliance (6.98 million), Idea (5.87 million) and Vodafone (5.20 million).

## H. Broadband (wired+wireless) Market Share



- Top five Wired Broadband Service providers are BSNL (9.98 million), Bharti (1.39 million), MTNL (1.11 million), Hathway Cable (0.36 million) and Beam Telecom (0.35 million).

- Top five Wireless Broadband Service providers are Bharti (9.49 million), Reliance (6.86 million), BSNL (6.55 million), Idea (5.86 Million) and Vodafone (5.20 million).

Contact details in case of any clarification:

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Authorised to issue:

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Advisor (F&EA)**

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

## Wireless Subscriber Base

Annexure-I

Page 1 of 2

Circle	Group													
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel		BSNL	
	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13
Andhra Pradesh	19276752	19436219	5884266	5906754	5973695	6077497	6507360	6483489	11951579	11871133	1905991	1915091	9590244	9680901
Assam	4283554	4328881	2600270	2587203	2619173	2675731	0		494717	522948	3662358	3688411	1255840	1239034
Bihar	21010070	21199942	9078340	9121159	6847588	6981540	3086422	2952584	6299256	6176803	4769018	4956916	3712828	3144128
Delhi	9828600	9905645	7922076	7932705	8955556	9027906	2871385	2898651	5247311	5286966	3336075	3616425		
Gujarat	7136718	7214153	6709090	6711434	16761324	17013839	2700676	2782083	8738014	8921842	30773	30773	4366621	4402109
Haryana	2352035	2350583	2145723	2162246	4728246	4785526	2662725	2679111	3973821	3973386	11092	11092	3174249	3210485
Himachal Pradesh	2117597	2136526	1479849	1506733	524781	525407	140495	134671	509445	504451	780532	791195	1530756	1530313
J & K	2562850	2568145	687031	691582	708970	722504	0		271840	286557	2063778	2083022	1242559	1242046
Karnataka	16823114	16906063	6297280	6333387	7015371	7105202	5940270	5939225	6611164	6554392	2241354	2339135	7086137	7212462
Kerala	3616274	3668530	2190527	2174798	6577007	6615300	1676685	1677027	8540934	8610522	1183	1183	8106846	8128853
Kolkata	3783565	3807919	3908714	3820981	4444964	4509247	2803127	2840471	1208037	1235606	2462993	2652293	2264867	2264226
Madhya Pradesh	10266721	10421680	12354122	12469060	4380662	4526810	3955062	3988604	16619023	16569091	22694	22694	5288117	5367319
Maharashtra	10385957	10363527	7316681	7386062	14431719	14730310	6128493	6172551	17825354	18052738	1338241	1368100	6531260	6603679
Mumbai	4189182	4265414	6085864	6059875	6926339	7022548	3455429	3471234	3268720	3308930	1850641	1966337		
North East	2931421	2987775	1021965	1023042	1073124	1112729	0		315638	326038	2351633	2345455	1836550	1793975
Orissa	7331229	7441424	4186982	4227962	3201258	3257688	2023943	2000271	1008328	1045241	3186485	3386838	4562685	3302476
Punjab	7220600	7276076	3016342	2954030	4523525	4586222	2449468	2453424	5833786	5779877	1029802	833256	4498087	4524935
Rajasthan	15189697	15367403	6025004	5917928	9388251	9492378	2270102	2224151	5605026	5596326	3845338	4097283	5943050	5969683
Tamil Nadu (incl. Chennai)	14121960	14166935	6017733	6120155	12777722	12848672	5340938	5411810	2542804	2584110	22218656	22304026	9635855	9704306
U.P.(E)	15728868	15961838	8638537	8647704	14645990	14918878	4232673	4226597	7704122	7627574	4763462	5030073	10241605	10323788
U.P.(W)	6607472	6701790	5967563	5974732	9355220	9523020	3776773	3668931	11224961	11171838	109150	109150	4522062	4570778
West Bengal	9834024	9930069	7481977	7513020	12173654	12349011	1321757	1262612	2619992	2678674	3301864	3363082	2943339	2076722
<b>Total</b>	<b>196598260</b>	<b>198406537</b>	<b>117015936</b>	<b>117242552</b>	<b>158034139</b>	<b>160407965</b>	<b>63343783</b>	<b>63267497</b>	<b>128413872</b>	<b>128685043</b>	<b>65283113</b>	<b>66911830</b>	<b>98333557</b>	<b>96292218</b>
<b>Net Addition</b>		<b>1808277</b>		<b>226616</b>		<b>2373826</b>		<b>-76286</b>		<b>271171</b>		<b>1628717</b>		<b>-2041339</b>

## Wireless Subscriber Base

## Annexure-I

Page 2 of 2

Circle	Group												Total		Net Add.
	MTNL		Telewings		Sistema		Loop		Videocon		Quadrant		Nov-13	Dec-13	
	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	
Andhra Pradesh			4207761	4278351									65297648	65649435	351787
Assam													14915912	15042208	126296
Bihar			4523910	4633099									59327432	59166171	-161261
Delhi	2554977	2557204			895730	938558							41611710	42164060	552350
Gujarat			5021205	4846861	172986	179551			1133829	1244101			52771236	53346746	575510
Haryana									1272804	1326511			20320695	20498940	178245
Himachal Pradesh													7083455	7129296	45841
J & K													7537028	7593856	56828
Karnataka					1914628	1961615							53929318	54351481	422163
Kerala					441034	449336							31150490	31325549	175059
Kolkata					729415	745896							21605682	21876639	270957
Madhya Pradesh									1263760	1398950			54150161	54764208	614047
Maharashtra			5740368	5806333									69698073	70483300	785227
Mumbai	1026106	1034318					3007612	2979460					29809893	30108116	298223
North East													9530331	9589014	58683
Orissa													25500910	24661900	-839010
Punjab											1894928	1955811	30466538	30363631	-102907
Rajasthan					2270358	2316631							50536826	50981783	444957
Tamil Nadu (incl. Chennai)					1106841	1117198							73762509	74257212	494703
U.P.(E)			7658885	7846532									73614142	74582984	968842
U.P.(W)			5217925	5369705	289717	293125							47070843	47383069	312226
West Bengal					1766529	1805129							41443136	40978319	-464817
<b>Total</b>	<b>3581083</b>	<b>3591522</b>	<b>32370054</b>	<b>32780881</b>	<b>9587238</b>	<b>9807039</b>	<b>3007612</b>	<b>2979460</b>	<b>3670393</b>	<b>3969562</b>	<b>1894928</b>	<b>1955811</b>	<b>881133968</b>	<b>886297917</b>	<b>5163949</b>
<b>Net Addition</b>		<b>10439</b>		<b>410827</b>		<b>219801</b>		<b>-28152</b>		<b>299169</b>		<b>60883</b>		<b>5163949</b>	

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

Circle	Aircel	Bharti	BSNL	Quadrant	Idea*	Loop	MTNL	Reliance	Sistema	Tata	Telewings	Videocon	Vodafone	Total
Andhra Pradesh	61.79	98.25	65.27		100.95			94.83		71.88	71.04		92.03	<b>87.55</b>
Assam	85.19	98.02	81.59		92.27			81.53					96.23	<b>90.17</b>
Bihar	65.59	96.70	61.61		103.59			96.33		49.53	78.97		95.91	<b>89.06</b>
Delhi	62.29	82.63			100.66		45.98	96.37	45.17	63.68			93.52	<b>83.70</b>
Gujarat	46.98	97.75	61.86		101.36			95.13	75.28	66.43	73.37	52.88	94.28	<b>88.96</b>
Haryana	7.28	98.12	51.27		99.68			97.04		66.21		53.30	96.84	<b>83.55</b>
Himachal Pradesh	54.28	95.33	72.66		108.29			91.07		53.09			102.59	<b>85.66</b>
J & K	84.25	95.87	68.58		90.80			54.77					85.63	<b>83.31</b>
Karnataka	55.12	98.29	54.63		101.40			92.92	62.10	75.27			91.72	<b>85.71</b>
Kerala	111.75	101.52	66.44		100.15			93.53	58.97	73.36			94.59	<b>87.90</b>
Kolkata	72.95	95.42	33.48		98.67			96.80	90.44	69.88			94.98	<b>83.13</b>
Madhya Pradesh	7.74	96.24	53.24		105.04			88.62		72.91		58.92	90.52	<b>89.79</b>
Maharashtra	63.47	100.18	72.18		101.60			96.39		75.70	72.37		99.55	<b>92.24</b>
Mumbai	55.63	92.60			93.05	47.39	81.08	97.32		70.05			89.77	<b>83.05</b>
North East	74.49	96.51	54.01		85.06			75.93					87.38	<b>79.53</b>
Orissa	58.73	97.91	83.12		88.85			82.76		74.34			89.30	<b>84.52</b>
Punjab	51.61	99.72	53.75	53.83	98.68			96.67		62.19			94.62	<b>84.29</b>
Rajasthan	70.61	95.10	45.57		104.62			97.12	50.08	74.23			100.09	<b>86.58</b>
Tamil Nadu (incl. Chennai)	57.21	96.72	47.68		82.14			91.05	63.42	61.92			94.67	<b>74.08</b>
U.P. (E)	66.70	94.93	44.54		104.17			95.66		57.43	77.71		99.47	<b>84.05</b>
U.P. (W)	27.71	91.49	50.68		99.40			95.14	47.09	59.70	80.84		97.60	<b>87.02</b>
West Bengal	75.78	97.56	82.42		100.76			95.05	70.09	43.73			98.14	<b>92.06</b>
<b>Total</b>	<b>64.22</b>	<b>96.23</b>	<b>57.58</b>	<b>53.83</b>	<b>100.98</b>	<b>47.39</b>	<b>56.09</b>	<b>93.49</b>	<b>61.07</b>	<b>67.24</b>	<b>75.94</b>	<b>55.15</b>	<b>95.63</b>	<b>86.02</b>

\*Peak VLR of M/s Idea Cellular is more than its HLR due to more number of inroamers.

## Wireline Subscriber Base

## Annexure-III

Circle	Group																Total	
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant		Sistema		Vodafone		Nov-13	Dec-13
	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13	Nov-13	Dec-13		
Andhra Pradesh	1689843	1679727			126669	126496	88117	87876	166856	166744					6,870	6,870	2078355	2067713
Assam	186040	185797							0	0					990	990	187030	186787
Bihar	363273	363274					5788	5834	11148	11189					270	390	380479	380687
Delhi			1601967	1602073	1187119	1186998	183890	184055	97437	100738					15,120	15,840	3085533	3089704
Gujarat	1481917	1473942			56332	56133	96082	95800	72979	73128					690	1,110	1708000	1700113
Haryana	466,723	462,718			15990	16477	5624	5759	26689	26749							515026	511703
Himachal Pradesh	253,927	252,335					4794	4856	2477	2448							261198	259639
J & K	189,800	189,215					0	0	0	0							189800	189215
Karnataka	1574864	1566297			492685	493897	117095	117531	152515	154795					4,740	5,040	2341899	2337560
Kerala	2832102	2818490			49357	49272	52268	51980	11719	11841							2945446	2931583
Kolkata	861517	858171			108341	107463	81584	81744	38213	38984					1470	1470	1091125	1087832
Madhya Pradesh	827383	826412			225006	226033	25139	24879	17635	17093					150	150	1095313	1094567
Maharashtra	1925008	1913174			69198	69319	98683	98502	249054	249660					3,360	3,630	2345303	2334285
Mumbai			1938483	1937858	356221	356733	234092	234398	521769	518645					8,730	8,790	3059295	3056424
North East	142,288	142,023							0	0					60	60	142348	142083
Orissa	339497	338976					3780	3784	7076	6954					360	360	350713	350074
Punjab	930414	923595			92708	91883	23978	23735	16978	17382	206674	208344			360	360	1271112	1265299
Rajasthan	845762	834746			36957	37007	23833	23629	8327	8381			55108	55850	540	540	970527	960153
Tamil Nadu (incl. Chennai)	2285564	2266474			463995	465007	147381	147584	76458	76902					3720	3870	2977118	2959837
U.P.(E)	745392	729687			51958	50791	40734	40807	14050	14205					540	570	852674	836060
U.P.(W)	601772	601092			21218	21257	6017	6038	8562	8446					270	270	637839	637103
West Bengal	513157	509748					2259	2315	3793	3764							519209	515827
<b>Total</b>	<b>19056243</b>	<b>18935893</b>	<b>3540450</b>	<b>3539931</b>	<b>3353754</b>	<b>3354766</b>	<b>1241138</b>	<b>1241106</b>	<b>1503735</b>	<b>1508048</b>	<b>206674</b>	<b>208344</b>	<b>55108</b>	<b>55850</b>	<b>48240</b>	<b>50310</b>	<b>29005342</b>	<b>28894248</b>
<b>Net Addition</b>		<b>-120350</b>		<b>-519</b>		<b>1012</b>		<b>-32</b>		<b>4313</b>		<b>1670</b>		<b>742</b>		<b>2070</b>		<b>-111094</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 Channels (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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