

Information Note to the Press (Press Release No. 45 /2011)

TELECOM REGULATORY AUTHORITY OF INDIA

New Delhi, 8th August, 2011

For Immediate release

Website: - [www.trai.gov.in](http://www.trai.gov.in)

Highlights of Telecom Subscription Data as on 30 June, 2011

Particulars	Wireless	Wireline	Total Wireless + Wireline
<b>Total Subscribers (Million)</b>	<b>851.70</b>	<b>34.29</b>	<b>885.99</b>
Total Net Addition (Million)	11.41	-0.11	11.30
% of Monthly Growth	1.36%	-0.32%	1.29%
<b>Urban Subscribers (Million)</b>	<b>562.12</b>	<b>25.82</b>	<b>587.94</b>
Urban Subscribers Net Addition (Million)	7.37	-0.05	7.32
% of Monthly Growth	1.33%	-0.18%	1.26%
<b>Rural Subscribers (Million)</b>	<b>289.57</b>	<b>8.47</b>	<b>298.05</b>
Rural Subscribers Net Addition (Million)	4.04	-0.06	3.98
% of Monthly Growth	1.42%	-0.73%	1.35%
<b>Teledensity</b>	<b>71.11</b>	<b>2.86</b>	<b>73.97</b>
Urban Teledensity	155.96	7.16	163.13
Rural Teledensity	34.58	1.01	35.60
Share of Urban Subscriber	66.00%	75.29%	66.36%
Share of Rural Subscriber	34.00%	24.71%	33.64%

- ❖ Mobile Number Portability requests increase from 105.70 lakh subscribers at the end of May 2011 to 129.85 lakh subscribers at the end of June 2011.
- ❖ Active wireless subscribers on the date of peak VLR in June- 2011 are 594.77 Million
- ❖ Broadband subscription reaches 12.32 Million in June-2011 from 12.12 Million in May-2011.

### Total Telephone Subscribers

- The number of telephone subscribers in India increased to **885.99** Million at the end of June 2011 from 874.68 Million at the end of May 2011, thereby registering a growth rate of 1.29%. The share of Urban Subscriber has marginally declined to 66.36% from 66.38% where as share of Rural Subscribers has marginally increased from 33.62% to 33.64%. With this, ***the overall Tele-density in India reaches to 73.97 at the end of June, 2011 from 73.11 of the previous month.***
- Subscription in Urban Areas grew from 580.62 million in May 2011 to 587.94 million at the end of June 2011. Rural subscription increased from 294.07 million to 298.05 million. The growth of Rural Subscription (1.35%) is higher than the Urban Subscription (1.26%). **The overall Urban teledensity has increased from 161.37 to 163.13 and Rural teledensity increased from 35.15 to 35.60.**

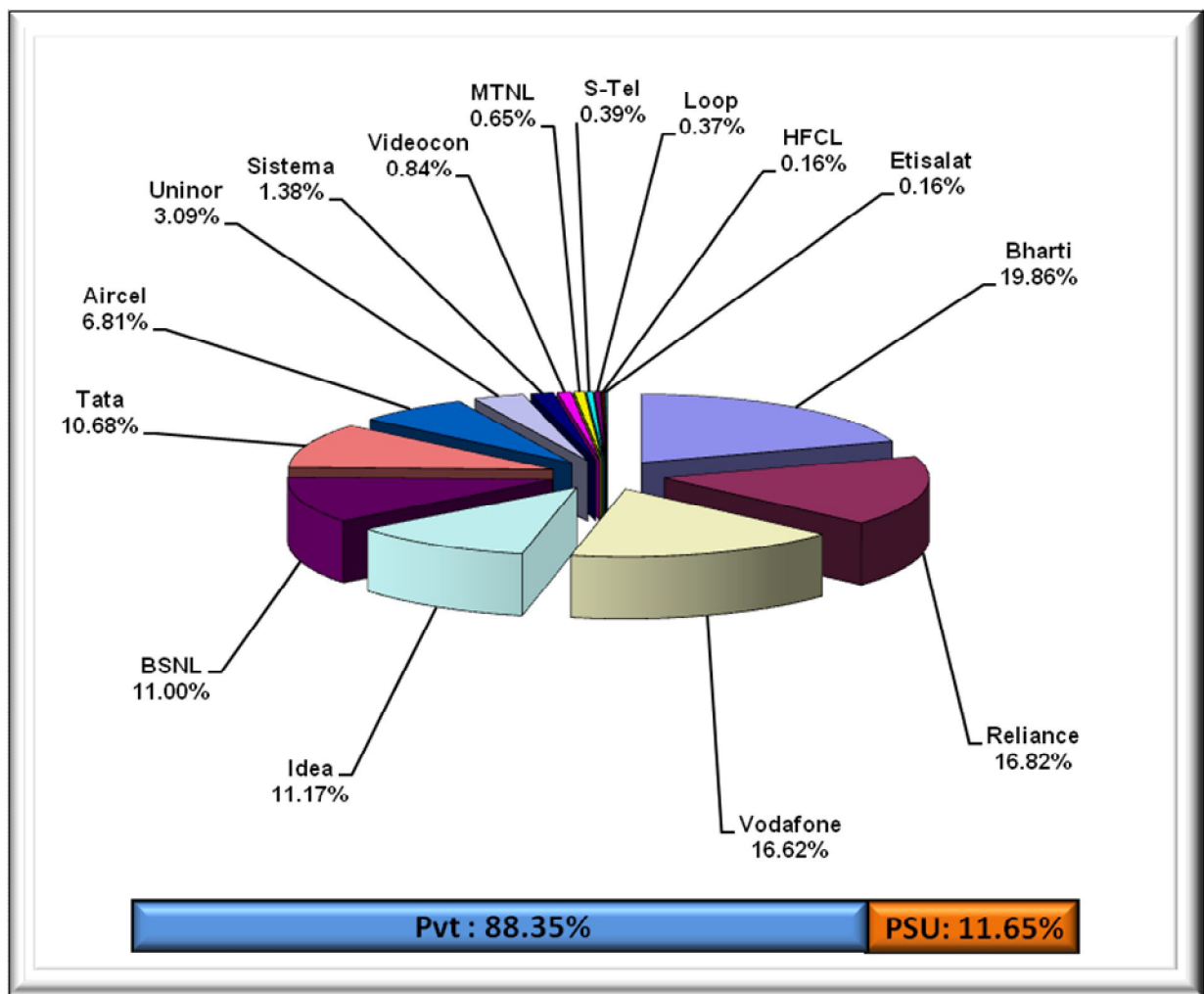
### Wireless Segment (GSM, CDMA & FWP)

- Total Wireless subscriber base increased from 840.28 Million in May 2011 to 851.70 Million at the end of June 2011, registering a growth of 1.36%. The share of Urban Subscriber has marginally decreased to 66.00% from 66.02% where as share of Rural Subscribers has marginally increased from 33.98% to 34.00%. ***The overall wireless Tele-density in India reaches 71.11.***
- Wireless subscription in Urban Areas increased from 554.75 million in May 2011 to 562.12 million at the end of June 2011. Rural subscription increased from 285.53 million to 289.57 million during the same period. This shows higher growth in Rural Subscription (1.42%) than Urban Subscription (1.33%). **The Urban wireless teledensity has increased**

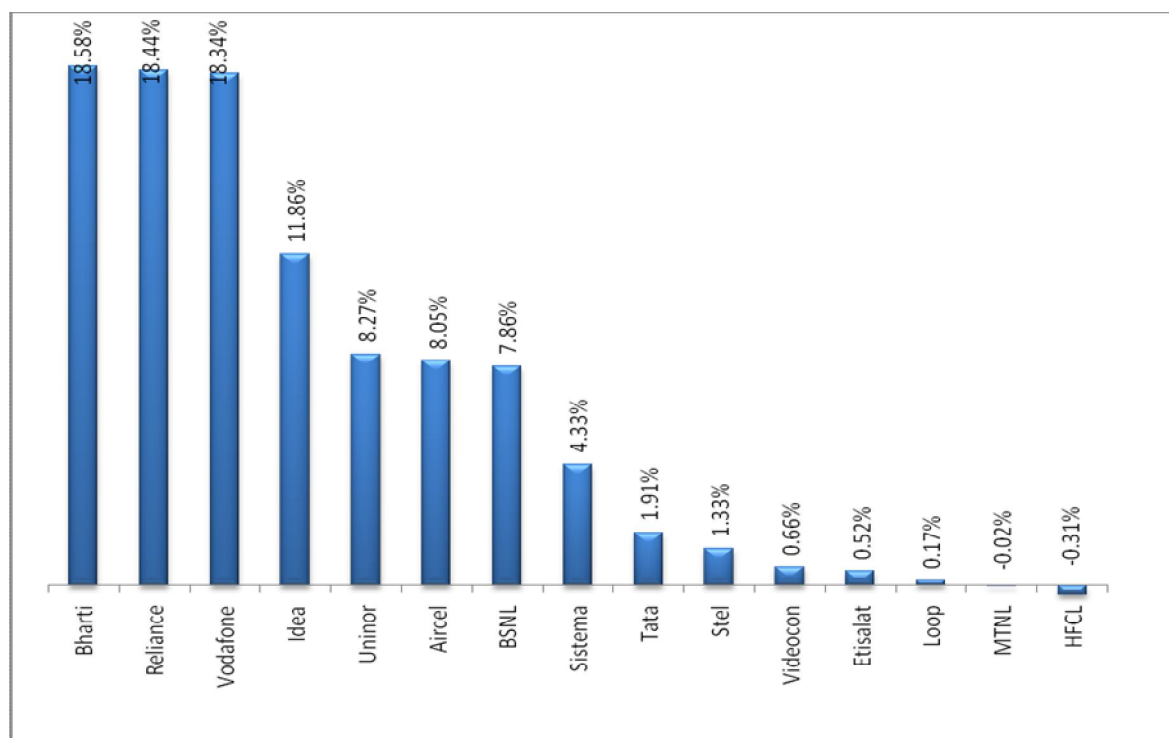
from 154.18 to 155.96 and Rural teledensity has increased from 34.13 to 34.58. Detailed statistics is at Annexure-I.

- Private operators hold 88.35% of the wireless market share where as BSNL and MTNL, two PSU operators hold only 11.65% market share. The graphical presentations of market shares and shares in net additions of all the service providers during the month of June 2011 are given below:

**A. Service Provider wise Market Share as on 30.06.2011**



## B. Service Providers' share in net additions during the month of June 2011



## VLR Data

- Out of the total 851.70 Million subscribers, 594.77 Million subscribers were active subscribers on the date of Peak VLR for the month of June 2011. The total active VLR number excludes the CDMA VLR figure of BSNL, as the service provider has not provided the VLR figures corresponding to their total CDMA subscriber base of 5.30 million. The proportion of VLR subscribers is approximately 69.83% of the total wireless subscriber base reported by the service providers. Circle-wise, Jammu & Kashmir has the highest proportion of VLR subscribers with 80.36% followed by Assam (76.78%) and Maharashtra (74.52%); Mumbai has the lowest proportion with 57.37%. Service Provider wise, Idea leads the tally with 92.48% followed by Bharti with 88.77%; Etisalat is at the bottom with 34.84%. The detailed statistics of proportionate VLR is at Annexure II & the methodology used for reporting subscriber base/active subscribers is at Annexure IV.

## **Mobile Number Portability**

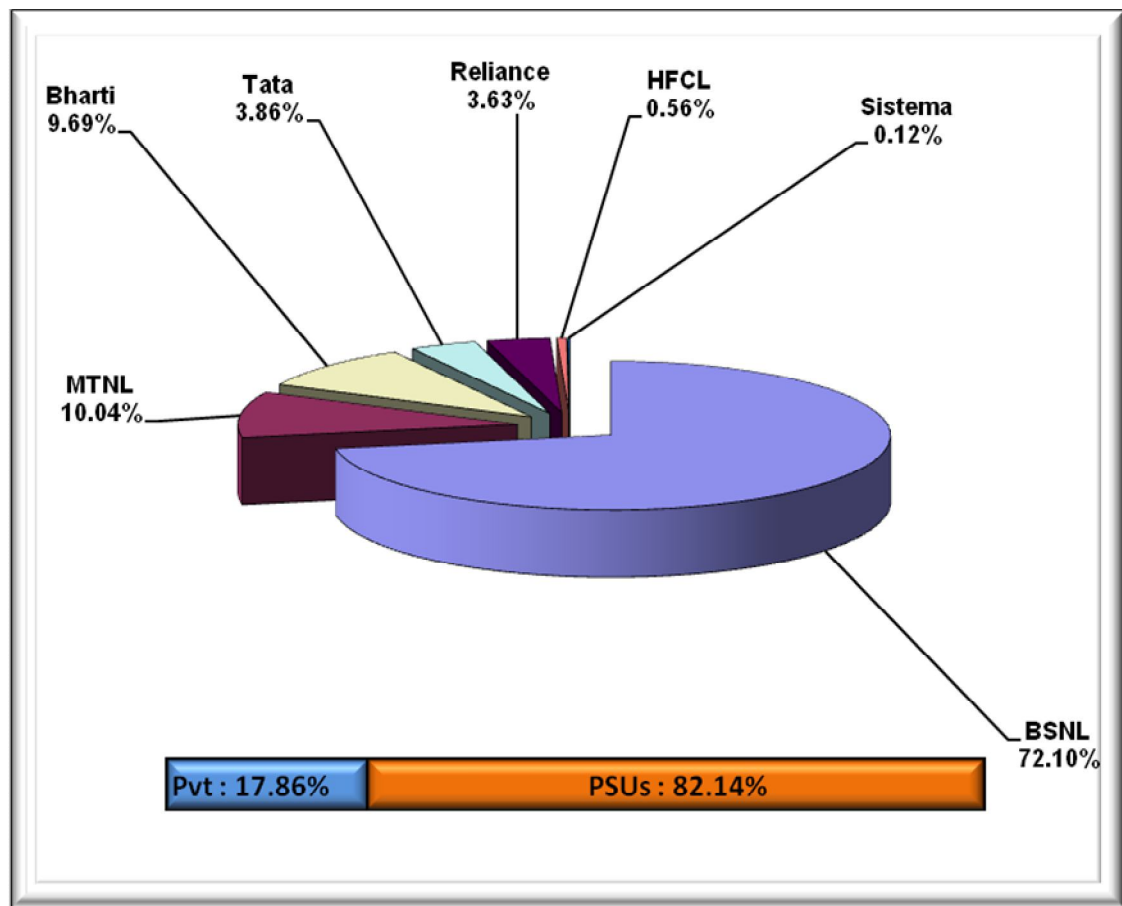
- As per the data reported by the service providers, by the end of June 2011 about 129.85 lakh subscribers have submitted their requests to different service providers for porting their mobile number. Out of these requests around 7.63 lakh pertains to Haryana wherein MNP was implemented from 25<sup>th</sup> Nov. 2010. In rest of the country, in MNP Zone-I (Northern & Western India) maximum number of requests have been received in Gujarat (12.98 lakh) followed by Maharashtra (10.32 lakh) whereas in MNP Zone-II (Southern & Eastern India) maximum number of requests have been received in Karnataka (9.83 lakh) followed by Andhra Pradesh Service area (9.55 lakh). The status of MNP requests in various service areas is given below:

<b>Service Area Wise MNP Status at the end of June 2011</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	685009	Andhra Pradesh	955160
Gujarat	<b>1297951</b>	Assam	36252
Himachal Pradesh	57298	Bihar	298073
Haryana	762512	Karnataka	<b>983375</b>
Jammu & Kashmir	2942	Kerala	539429
Maharashtra	1032593	Kolkata	321450
Mumbai	477459	Madhya Pradesh	840001
Punjab	598487	North East	9688
Rajasthan	961296	Orissa	279407
Uttar pradesh - East	632507	Tamil Nadu	922893
Uttar pradesh - West	772607	West Bengal	519072
<b>Total</b>	<b>7280661</b>	<b>Total</b>	<b>5704800</b>
<b>Total (Zone 1 + Zone 2)</b>	<b>12,985,461</b>		

## Wireline Segment

- Wireline subscriber base declined from 34.40 Million in May 2011 to 34.29 Million at the end of June 2011. The share of Urban Subscriber has marginally increased from 75.19% to 75.29% where as share of Rural Subscribers has marginally declined to 24.71% from 24.81%. ***The overall wireline Tele-density in India declines to 2.86 with urban and rural teledensity being 7.16 and 1.01 respectively.*** BSNL and MTNL, two PSU operators hold 82.14% of the Wireline market share. Detailed statistics is at Annexure-III. The graphical presentation of market share of all service provider as on 30th June 2011 is given below:

### Service Provider wise Market Share as on 30.06.2011



## Category wise Growth

- From the below tables, Circle B shows the highest net addition whereas Circle C registered the highest rate of monthly growth in the wireless sector from May 2011 to June 2011.

## Category wise Net Additions and subscriber base

Category	Net Additions during the month of June, 2011		Subscriber Base as on 30th June, 2011	
	Wireline	Wireless	Wireline	Wireless
Circle A	-37525	3731322	13184916	299928699
Circle B	-70408	4359712	11049262	335787366
Circle C	-3885	2159508	2829967	114671767
Metro	2834	1162329	7228619	101307836
<b>All India</b>	<b>-108984</b>	<b>11412871</b>	<b>34292764</b>	<b>851695668</b>

## Category-wise Growth Rate in Access Service

Category	Monthly Rate of Growth (May-2011 to June-2011)		Yearly rate of growth (June-2010 to June-2011)	
	Wireline	Wireless	Wireline	Wireless
Circle A	-0.28%	1.26%	-3.95%	30.60%
Circle B	-0.63%	1.32%	-8.74%	37.62%
Circle C	-0.14%	1.92%	-10.99%	36.14%
Metro	0.04%	1.16%	0.86%	30.51%
<b>All India</b>	<b>-0.32%</b>	<b>1.36%</b>	<b>-5.22%</b>	<b>34.02%</b>

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

**Broadband (≥ 256 Kbps download)**

Total Broadband subscriber base has increased from 12.12 million in May 2011 to 12.32 million in June 2011, there by showing a growth of 1.64%.

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

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Contact details in case of any clarification:

Raj Pal, Advisor (ER), TRAI  
Mahanagar Doorsanchar Bhawan  
Jawahar Lal Nehru Marg,  
New Delhi – 110002  
Ph: 011-23230752  
Fax: 011-23236650  
E-mail: adveco@traai.gov.in

Authorised to issue.

(Raj Pal)  
Advisor(ER)

## Annexure-I

## Wireless Subscriber Base

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Circle	Group											
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel / Dishnet	
	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11
Andhra Pradesh	16993517	17243746	8286538	8335814	7310154	7347024	8488744	8531541	8331480	8428994	1655162	1668170
Assam	3311174	3356891	2185564	2215464	1592014	1650109	120474	120853	293493	303279	3314827	3429987
Bihar	15775194	16076532	8557068	8850834	5173645	5244148	5351391	5416422	5003430	4896810	4711546	4843688
Delhi	8227043	8301831	8656295	8687497	7664537	7788376	5941543	6011585	3937339	3991264	2175676	2218190
Gujarat	6661911	6704802	8097167	7935027	14665665	14910573	3777055	3810889	7247179	7142471	505043	560123
Himachal Pradesh	1674934	1696464	1587946	1635574	345393	357430	411181	421271	378304	365532	694995	677256
Haryana	2147372	2181265	3868854	3899266	4090683	4170943	3021585	3029987	3305005	3277517	522099	559344
J & K	1856608	1868985	469049	461699	544736	565253	110180	112972	123863	128808	1690960	1763924
Karnataka	14797972	14892871	7842532	7893399	6528386	6591039	7015278	7022517	4265716	4366930	1718814	1695561
Kerala	3449144	3459776	3906303	4022609	5435101	5535177	2731775	2730401	6845143	7026922	2303040	2358360
Kolkata	3659718	3688633	5152601	5349384	4348587	4373647	3404394	3421712	738548	734402	1611339	1563412
Madhya Pradesh	9504848	9547099	11322891	11574052	2966027	3135580	5081650	5126046	11756472	11839576	728253	734560
Maharashtra	8673792	8794416	9460596	9541113	11717802	11962824	10433074	10512247	13256821	13427497	990936	1049697
Mumbai	3550309	3598710	7734412	7756018	5856478	5887113	6098513	6171839	2228867	2348402	1141044	1149736
North East	2077542	2103288	686462	706894	853362	861826	82066	78721	209917	224701	2165087	2197151
Orissa	5330214	5524753	4028593	4123910	2310015	2338159	2611056	2617124	673688	646442	2467895	2508395
Punjab	6457496	6591185	4329866	4477965	4101191	4132392	3497809	3553587	4450870	4665114	669863	668480
Rajasthan	12449845	12561588	7252069	7395575	8658135	8711277	4312564	4027655	3068554	3092185	828320	865678
Tamil Nadu	12768087	12851196	8387512	8680758	11248422	11444549	4947655	4958576	1288370	1346172	20251442	20493642
U.P.(E)	12800376	13044951	12493214	12507704	13986764	14237217	4714626	4779102	6338000	6369289	2106456	2056803
U.P.(W)	6240100	6341180	9742562	9798352	9159315	9234369	5212886	5109190	8521953	9052503	1864492	1924818
West Bengal	8658093	8756085	7112365	7416250	10870357	11040815	3409344	3428447	1491752	1434008	2944535	2993777
<b>Total</b>	<b>167065289</b>	<b>169186247</b>	<b>141160459</b>	<b>143265158</b>	<b>139426769</b>	<b>141519840</b>	<b>90774843</b>	<b>90992684</b>	<b>93754764</b>	<b>95108818</b>	<b>57061824</b>	<b>57980752</b>
<b>Net Additions during June-2011</b>		<b>2120958</b>		<b>2104699</b>		<b>2093071</b>		<b>217841</b>		<b>1354054</b>		<b>918928</b>

**Wireless Subscriber Base**  
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**Annexure-I**

Circle	Group											
	BSNL		MTNL		Uninor		Sistema		Loop		Videocon	
	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11
Andhra Pradesh	7753666	7996450			2342188	2521021	414006	454468	0	0	9888	10416
Assam	1512190	1527532			0	0	4	8	86	86	0	0
Bihar	6057089	6088425			2811398	2953045	945334	1025557	0	0	15877	16897
Delhi	0	0	2650962	2662100	0	0	769028	811361	0	0	0	0
Gujarat	4034187	4026956			1964986	2029601	61460	62372	0	0	1559713	1615387
Himachal Pradesh	1685013	1699374			0	0	23	22	0	0	88344	89150
Haryana	3047686	3049879			0	0	140015	148881	96	104	906746	864065
J & K	884134	917986			0	0	0	0	0	0	0	0
Karnataka	5901408	6000816			1097577	1196133	1434080	1533296	0	0	9958	10458
Kerala	5998985	6028208			693617	669904	530269	547148	0	0	394822	370125
Kolkata	2360270	2453216			1355725	1370569	697260	679173	1111	1224	0	0
Madhya Pradesh	4975335	4952054			0	0	516	592	91	93	1183626	1177802
Maharashtra	6435935	6426492			2197374	2282932	517726	530488	0	0	12232	12581
Mumbai	0	0	2850438	2836960	1106495	1129213	719604	741115	3128405	3147900	1347514	1374012
North East	1512737	1540597			0	0	0	0	20	20	0	0
Orissa	3937994	3988945			1089713	1078406	80	109	496	536	9114	9591
Punjab	4620140	4643263			0	0	93	93	91	100	0	0
Rajasthan	5686215	5704137			0	0	2037057	2083180	247	245	9047	9584
Tamil Nadu	8494460	8628424			1296162	1321818	1487664	1492320	0	0	1461121	1522515
U.P.(E)	10112847	10183078			4052377	4213665	90713	131445	0	0	20009	20001
U.P.(W)	4471319	4510993			2996857	3177271	83994	123919	0	0	9538	9537
West Bengal	3348788	3361000			2381818	2386633	1302405	1359533	0	0	16649	17765
<b>Total</b>	<b>92830398</b>	<b>93727825</b>	<b>5501400</b>	<b>5499060</b>	<b>25386287</b>	<b>26330211</b>	<b>11231331</b>	<b>11725080</b>	<b>3130643</b>	<b>3150308</b>	<b>7054198</b>	<b>7129886</b>
<b>Net Additions during June-2011</b>		<b>897427</b>		<b>-2340</b>		<b>943924</b>		<b>493749</b>		<b>19665</b>		<b>75688</b>

**Wireless Subscriber Base**  
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**Annexure-I**

Circle	Group						Circle-wise Total		Net Addition
	S-tel		HFCL		Etisalat/Allianz		May-11	Jun-11	
	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	
Andhra Pradesh	0	0			20875	23330	61606218	62560974	954756
Assam	72488	85015			0	0	12402314	12689224	286910
Bihar	1787162	1897964			22803	26518	56211937	57336840	1124903
Delhi	0	0			681695	698910	40704118	41171114	466996
Gujarat	0	0			18700	20654	48593066	48818855	225789
Himachal Pradesh	428831	428377			0	0	7294964	7370450	75486
Haryana	0	0			8373	9268	21058514	21190519	132005
J & K	0	0			0	0	5679530	5819627	140097
Karnataka	0	0			16258	18137	50627979	51221157	593178
Kerala	0	0			7884	8760	32296083	32757390	461307
Kolkata	0	0			0	0	23329553	23635372	305819
Madhya Pradesh	0	0			41367	46778	47561076	48134232	573156
Maharashtra	0	0			21612	23882	63717900	64564169	846269
Mumbai	0	0			349757	360332	36111836	36501350	389514
North East	38523	41121			0	0	7625716	7754319	128603
Orissa	838940	864937			0	0	23297798	23701307	403509
Punjab	0	0	1439350	1403850	10549	11864	29577318	30147893	570575
Rajasthan	0	0			20858	22841	44322911	44473945	151034
Tamil Nadu	0	0			21319	23574	71652214	72763544	1111330
U.P.(E)	0	0			28559	31607	66743941	67574862	830921
U.P.(W)	0	0			28689	32080	48331705	49314212	982507
West Bengal	0	0			0	0	41536106	42194313	658207
<b>Total</b>	<b>3165944</b>	<b>3317414</b>	<b>1439350</b>	<b>1403850</b>	<b>1299298</b>	<b>1358535</b>	<b>840282797</b>	<b>851695668</b>	<b>11412871</b>
<b>Net Additions during June-2011</b>		<b>151470</b>		<b>-35500</b>		<b>59237</b>		<b>11412871</b>	

Proportion of VLR on the date of Peak VLR in the month of June 2011 (%)

Annexure-II

Circle	Aircel	Bharti	BSNL(Exept CDMA)	Etisalat	HFCL	Idea	Loop	MTNL	Reliance	S Tel	Sistema	Tata	Uninor	Videocon	Vodafone	Total
Andhra Pradesh	48.01	91.42	64.36	19.41		92.84			62.46		61.72	54.55	51.33	5.44	57.66	<b>72.27</b>
Assam	76.89	90.10	50.25			83.93	18.60		71.79	59.19	2475.00	74.85			80.44	<b>76.78</b>
Bihar	46.76	92.60	60.65	23.12		87.75			62.33	37.64	36.70	41.82	64.18	16.18	91.35	<b>71.00</b>
Delhi	48.78	75.05		41.86		88.94		39.85	67.95		24.01	40.16			85.64	<b>66.55</b>
Gujarat	87.56	84.10	55.66	21.65		91.29			61.37		35.62	53.52	59.25	46.40	82.21	<b>73.82</b>
Himachal Pradesh	62.52	94.80	59.90			98.25			58.59	49.66		36.92		33.54	95.14	<b>69.27</b>
Haryana	32.33	90.24	47.12	21.56		87.90	20.19		57.67		18.36	53.82		32.59	92.19	<b>68.44</b>
J & K	78.12	95.40	63.38			88.84			69.33			72.27			73.85	<b>80.36</b>
Karnataka	40.81	92.84	53.66	15.27		94.27			62.90		67.67	60.50	46.88	2.59	65.79	<b>72.25</b>
Kerala	31.39	87.60	65.01	21.56		92.14			61.85		52.48	49.43	24.35	24.93	78.36	<b>69.86</b>
Kolkata	54.71	83.87	35.79			83.63	2.70		59.34		57.77	53.31	50.40		78.72	<b>63.32</b>
Madhya Pradesh	51.47	88.51	46.36	21.84		97.76	17.20		61.42		37.84	58.60		31.95	66.74	<b>73.32</b>
Maharashtra	46.69	89.46	62.04	22.58		95.74			63.72		46.94	48.45	62.23	17.80	84.13	<b>74.52</b>
Mumbai	53.25	79.23		32.42		82.00	42.48	30.77	71.18		15.59	36.99	43.02	36.06	73.45	<b>57.37</b>
North East	69.86	83.23	54.98			80.30	30.00		62.79	32.44		77.23			74.68	<b>70.60</b>
Orissa	48.16	91.99	58.74			72.54	6.72		57.77	36.13	273.39	45.18	38.53	14.86	77.58	<b>64.18</b>
Punjab	51.69	90.62	50.76	23.90	38.75	91.38	16.00		58.98		270.97	47.56			82.54	<b>70.41</b>
Rajasthan	91.90	92.21	46.99	27.66		103.41	5.31		60.29		42.47	45.43		11.06	75.26	<b>71.94</b>
Tamil Nadu	51.87	89.77	46.43	13.12		70.69			56.47		54.45	46.24	47.57	36.57	83.06	<b>62.98</b>
U.P.(E)	61.46	95.54	43.01	26.62		94.53			60.83		49.53	45.44	73.12	22.80	86.50	<b>73.08</b>
U.P.(W)	54.69	75.41	43.46	18.34		93.14			57.72		53.73	43.57	62.09	19.61	85.42	<b>69.03</b>
West Bengal	46.86	79.88	48.36			75.12			63.13		66.81	32.26	61.69	15.03	88.37	<b>68.80</b>
<b>Total</b>	<b>53.91</b>	<b>88.77</b>	<b>52.69</b>	<b>34.84</b>	<b>38.75</b>	<b>92.48</b>	<b>42.45</b>	<b>35.17</b>	<b>61.93</b>	<b>39.28</b>	<b>48.79</b>	<b>48.02</b>	<b>58.05</b>	<b>36.46</b>	<b>80.82</b>	<b>69.83</b>

## Wireline Subscriber Base

## Annexure-III

Page 1 of 1

Circle	GROUP															Circle-wise Total		
	BSNL		MTNL		Bharti		Reliance		Tata		HFCL		Sistema		May-11	Jun-11	Net Addition	
	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	May-11	Jun-11	Net Addition	
Andhra Pradesh	1982182	1978372			125107	125336	86719	86690	159152	162598					2353160	2352996	-164	
Assam	254436	253835							2224	2325					256660	256160	-500	
Bihar	1181760	1180087					4531	4611	8881	9116					1195172	1193814	-1358	
Delhi			1537268	1538695	1070205	1071796	177381	177962	58173	62008					2843027	2850461	7434	
Gujarat	1692679	1682786			54746	55010	116015	115519	62317	63630					1925757	1916945	-8812	
Himachal Pradesh	329021	326810				0	4329	4431	1678	1701					335028	332942	-2086	
Haryana	597266	590058			23395	23491	4170	4307	15278	15606					640109	633462	-6647	
J & K	215325	215276					18	18	174	187					215517	215481	-36	
Karnataka	2019981	2016969			489197	490299	106924	107499	110132	112253					2726234	2727020	786	
Kerala	3164854	3157485			55422	55478	53598	53861	10813	11060					3284687	3277884	-6803	
Kolkata	1189338	1185656			90248	90902	84895	84012	27371	28839					1391852	1389409	-2443	
Madhya Pradesh	1001850	981701			304733	304761	33046	33332	6588	6970					1346217	1326764	-19453	
Maharashtra	2446200	2424908			69865	69959	96817	97438	207655	210633					2820537	2802938	-17599	
Mumbai			1908747	1904681	331241	331514	222309	223539	528609	529015					2990906	2988749	-2157	
North East	260246	260043							194	195					260440	260238	-202	
Orissa	560363	560552					4004	4015	6668	6765					571035	571332	297	
Punjab	1210257	1199005			105064	105257	36984	36422	16077	15836	192725	193500			1561107	1550020	-11087	
Rajasthan	1133230	1123811			39046	39147	23158	23322	4559	4810			39965	40836	1239958	1231926	-8032	
Tamil Nadu	2718612	2702597			483679	484501	140451	140994	54011	56925					3396753	3385017	-11736	
U.P.(E)	1362863	1357156			50189	50308	37299	37729	11678	12081					1462029	1457274	-4755	
U.P.(W)	815926	814006			23951	23977	5335	5271	7068	7203					852280	850457	-1823	
West Bengal	725906	713694					2265	2287	5112	5494					733283	721475	-11808	
<b>Operator-wise Total</b>	<b>24862295</b>	<b>24724807</b>	<b>3446015</b>	<b>3443376</b>	<b>3316088</b>	<b>3321736</b>	<b>1240248</b>	<b>1243259</b>	<b>1304412</b>	<b>1325250</b>	<b>192725</b>	<b>193500</b>	<b>39965</b>	<b>40836</b>	<b>34401748</b>	<b>34292764</b>	<b>-108984</b>	
<b>Net Additions during June-2011</b>		<b>-137488</b>		<b>-2639</b>		<b>5648</b>		<b>3011</b>		<b>20838</b>		<b>775</b>		<b>871</b>		<b>-108984</b>		

## Annexure IV

### 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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