

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 9th January, 2017

(www.trai.gov.in)

**Highlights of Telecom Subscription Data as on 31st October, 2016**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1,078.42	24.52	1,102.94
Net Addition in October, 2016 (Million)	28.68	0.02	28.70
Monthly Growth Rate	2.73%	0.10%	2.67%
Urban Telephone Subscribers (Million)	621.77	20.61	642.37
Net Addition in October, 2016 (Million)	17.96	0.03	18.00
Monthly Growth Rate	2.97%	0.17%	2.88%
Rural Telephone Subscribers (Million)	456.66	3.91	460.57
Net Addition in October, 2016 (Million)	10.72	-0.01	10.71
Monthly Growth Rate	2.40%	-0.26%	2.38%
Overall Tele-density*	84.34	1.92	86.25
Urban Tele-density*	155.35	5.15	160.50
Rural Tele-density*	51.98	0.45	52.43
Share of Urban Subscribers	57.66%	84.04%	58.24%
Share of Rural Subscribers	42.34%	15.96%	41.76%
Broadband Subscribers (Million)	200.49	17.93	218.42

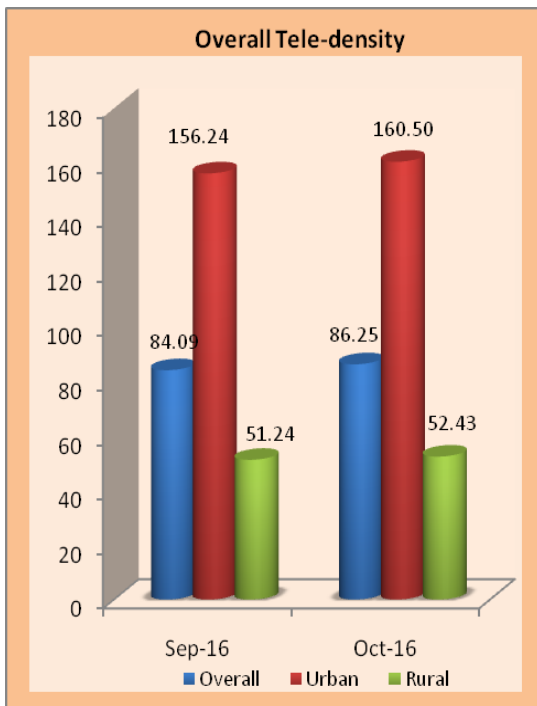
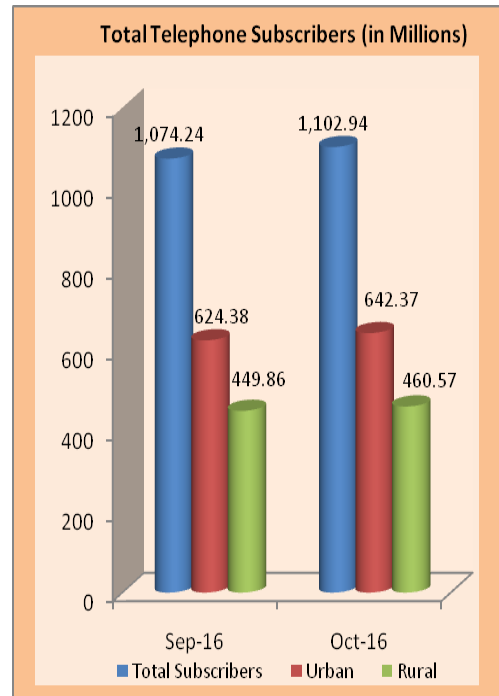
- ❖ In the month of October, 2016, 4.93 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 239.46 million at the end of Sep-16 to 244.39 million at the end of Oct-16, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in October, 2016 was 970.47 million.

Note:

- Information in this Press Release is based on the data provided by the Service Providers
- * Based on the population projections from Census data published by the Office of Registrar General & Census Commissioner of India.
- # VLR is acronym of Visitor Location Register. The dates of peak VLR for various TSPs are different in different service areas.

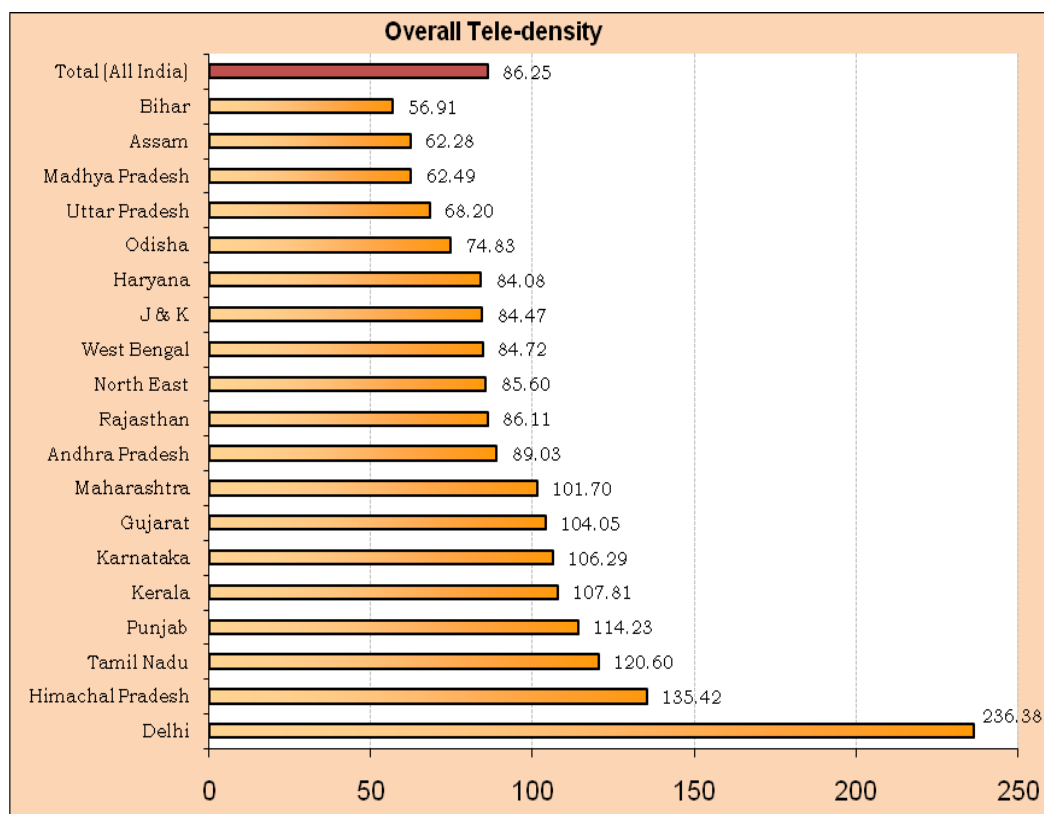
I. Total Telephone Subscribers

The number of telephone subscribers in India increased from 1,074.24 million at the end of Sep-16 to 1,102.94 million at the end of Oct-16, thereby showing a monthly growth rate of 2.67%. The urban subscription increased from 624.38 million at the end of Sep-16 to 642.37 million at the end of Oct-16 and the rural subscription also increased from 449.86 million to 460.57 million during the same period. The monthly growth rates of urban and rural subscription were 2.88% and 2.38% respectively during the month of Oct-16.



The overall Tele-density in India increased from 84.09 at the end of Sep-16 to 86.25 at the end of Oct-16. The Urban Tele-density increased from 156.24 at the end of Sep-16 to 160.50 at the end of Oct-16, and the Rural Tele-density also increased from 51.24 at the end of Sep-16 to 52.43 at the end of Oct-16. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of Oct-16 was 58.24% and 41.76% respectively.

Overall Tele-density (Circle/State Wise) – As on 31st October, 2016



Notes:

1. Population data/projections are available state wise only.
2. Tele-density figures are derived from the telephone subscriber data provided by the access service providers and the projections of population published by the Office of the Registrar General & Census Commissioner, India.
3. Telephone subscriber data for Delhi, includes, apart from the data for the State of Delhi, wireless subscriber data for the areas served by the local exchanges of Ghaziabad & Noida (in Uttar Pradesh) and Gurgaon & Faridabad (in Haryana).
4. Data/information for West Bengal includes Kolkata, Maharashtra includes Mumbai, Tamil Nadu includes Chennai and Uttar Pradesh includes UPE & UPW service area(s).
5. Data/information for Andhra Pradesh includes Telengana, Madhya Pradesh includes Chhatisgarh, Bihar includes Jharkhand, Maharashtra includes Goa, Uttar Pradesh includes Uttarakhand, West Bengal includes Sikkim and North-East includes Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland & Tripura States.

II. Category-wise Growth in subscriber base

Circle Category-wise Net Additions in Telephone Subscribers in the month of October, 2016

Circle Category	Net additions in the month of October, 2016		Telephone Subscriber base as on 31 st October, 2016	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	6,796	9,908,165	9,656,954	377,846,388
Circle B	-11,194	10,495,366	6,571,855	430,728,366
Circle C	3,738	4,207,980	1,183,233	162,253,256
Metro	24,784	4,068,577	7,106,683	107,594,205
All India	24,124	28,680,088	24,518,725	1,078,422,215

Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of October, 2016

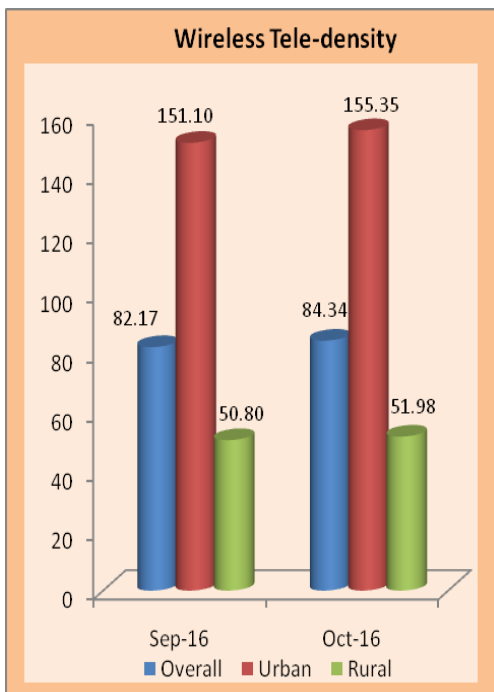
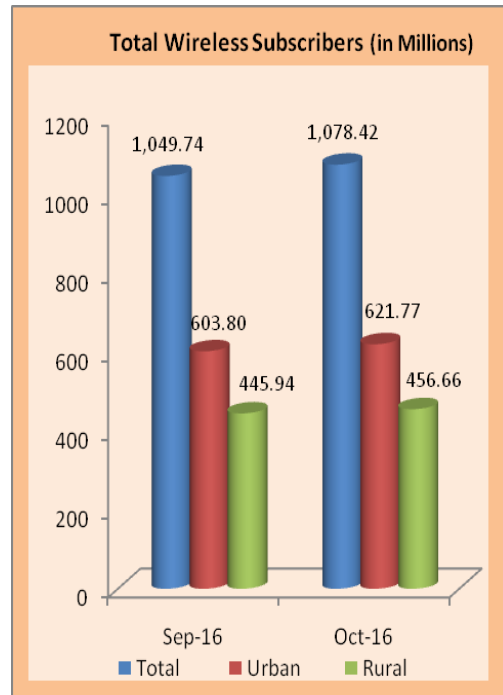
Circle Category	Monthly growth rate (%) (Sep-16 to Oct-16)		Yearly growth rate (%) (Oct-15 to Oct-16)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	0.07	2.69	-6.38	6.89
Circle B	-0.17	2.50	-7.67	8.43
Circle C	0.32	2.66	-6.94	7.62
Metro	0.35	3.93	-0.58	5.52
All India	0.10	2.73	-5.16	7.47

Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

- As can be seen in the above tables, in wireless segment, Circles of Category-B showed highest monthly net addition during the month of Oct-16. However, Metro circles showed maximum growth rate in subscriber base during the same period.
- In Wireline segment, Metro circles showed the highest net addition in subscriber base during the month of Oct-16. However, Circles of Category-B showed decline in wireline subscriber base during the same period.

III. Wireless Subscribers

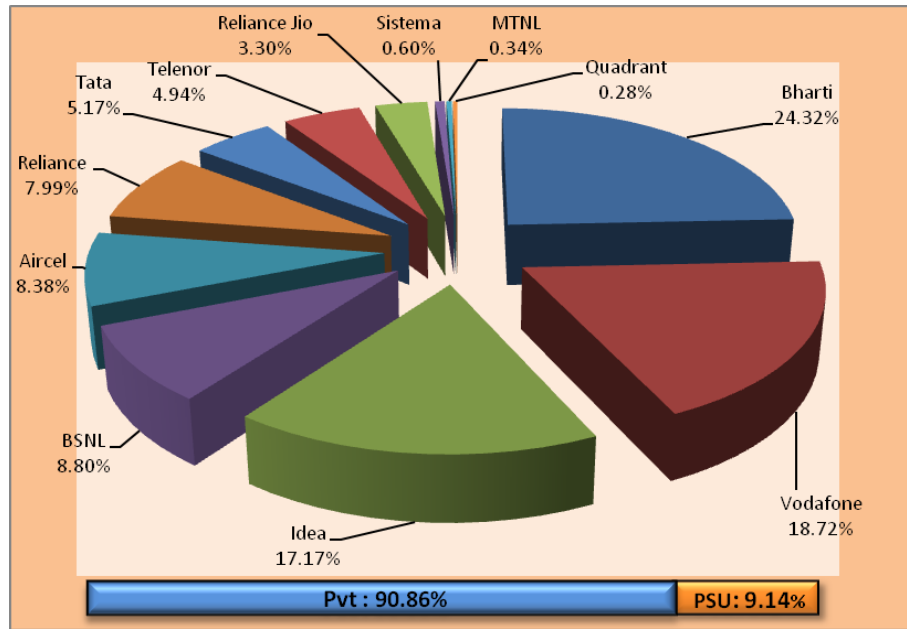
• Total wireless subscriber base increased from 1,049.74 million at the end of Sep-16 to 1,078.42 million at the end of Oct-16, thereby registering a monthly growth rate of 2.73%. The Wireless subscription in urban areas increased from 603.80 million at the end of Sep-16 to 621.77 million at the end of Oct-16, and wireless subscription in rural areas also increased from 445.94 million to 456.66 million during the same period. The monthly growth rates of urban and rural wireless subscription were 2.97% and 2.40% respectively.



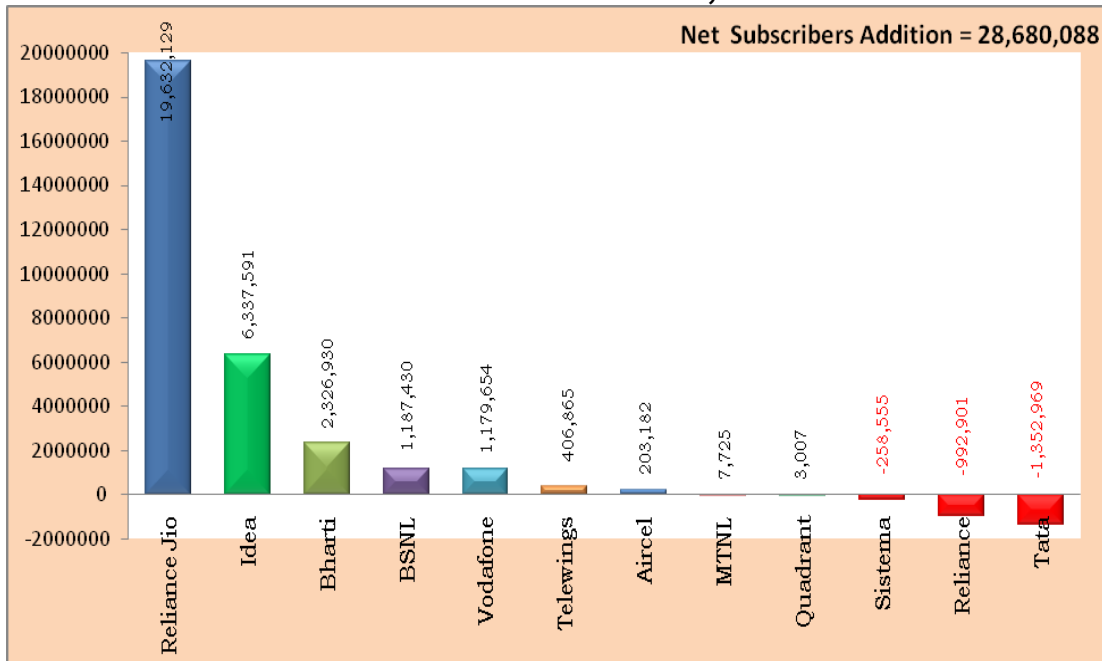
• The Wireless Tele-density in India increased from 82.17 at the end of Sep-16 to 84.34 at the end of Oct-16. The Urban Wireless Tele-density increased from 151.10 at the end of Sep-16 to 155.35 at the end of Oct-16, and Rural Wireless Tele-density also increased from 50.80 to 51.98 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 57.66% and 42.34% respectively at the end of Oct-16. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 31st October, 2016, the private access service providers held 90.86% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.14%. The graphical representation of access service provider-wise market share and net additions in wireless subscriber base are given below:

Access Service Provider-wise Market Shares in term of Wireless Subscriber base as on 31st October, 2016



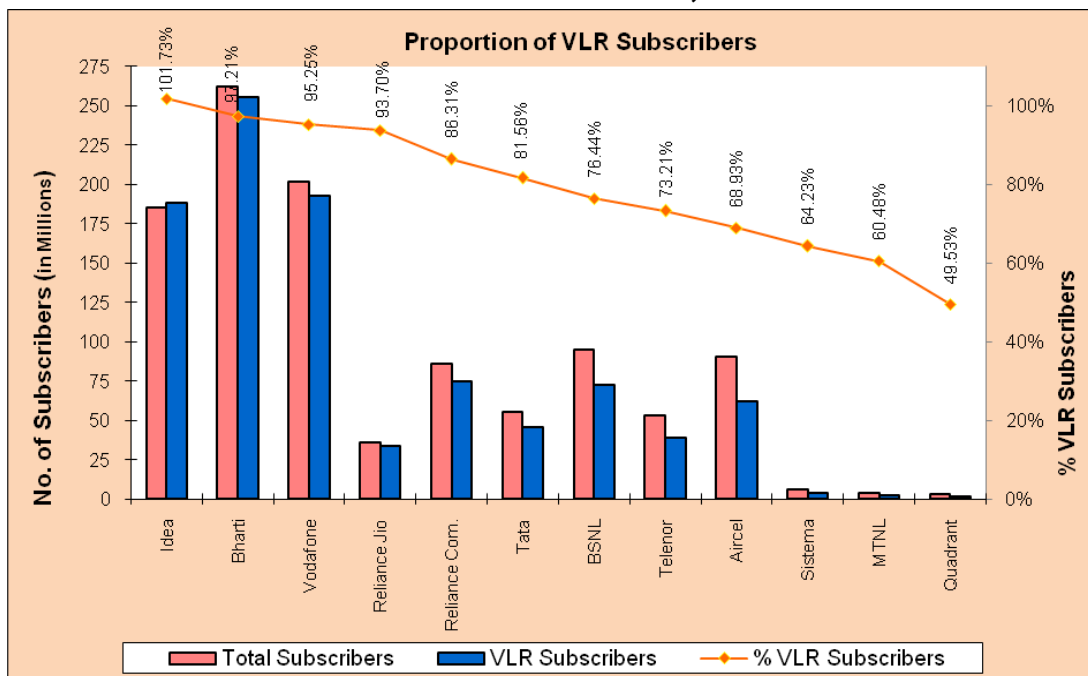
Net Additions in Wireless Subscriber Bases of Access Service Providers in the Month of October, 2016



IV. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscriber base (1,078.42 million), 970.47 million wireless subscribers were active on the date of peak VLR in the month of Oct-16. The proportion of active wireless subscribers was approximately 89.99% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of Oct-16 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

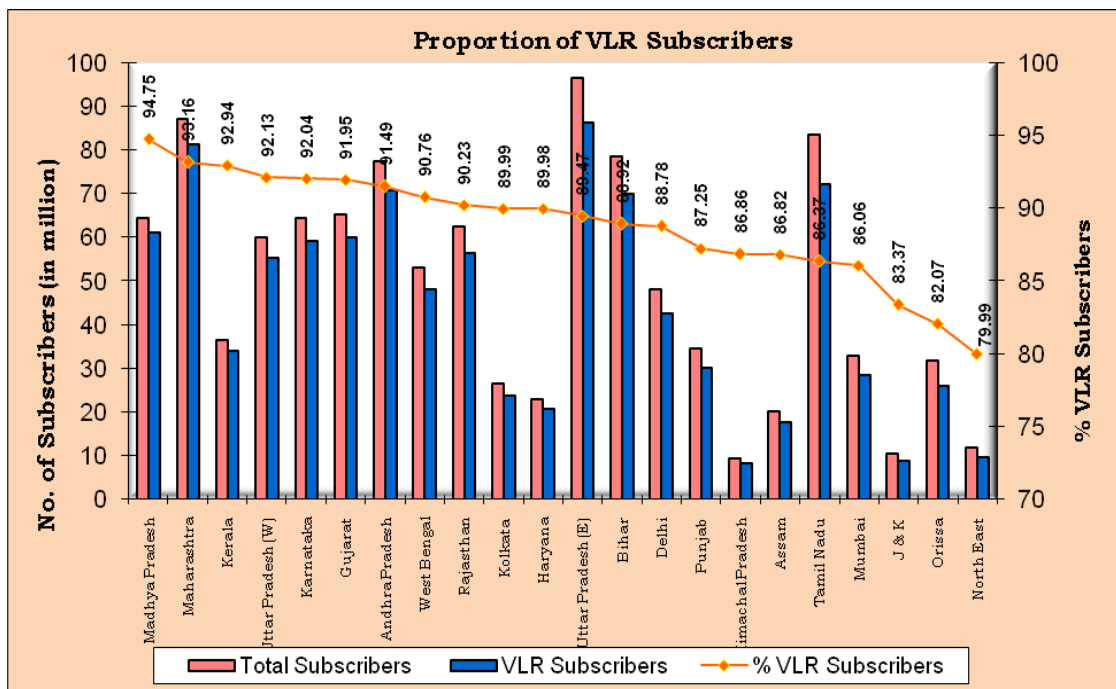
Access Service Provider-wise Proportion of VLR Subscribers in the Month of October, 2016



Note-

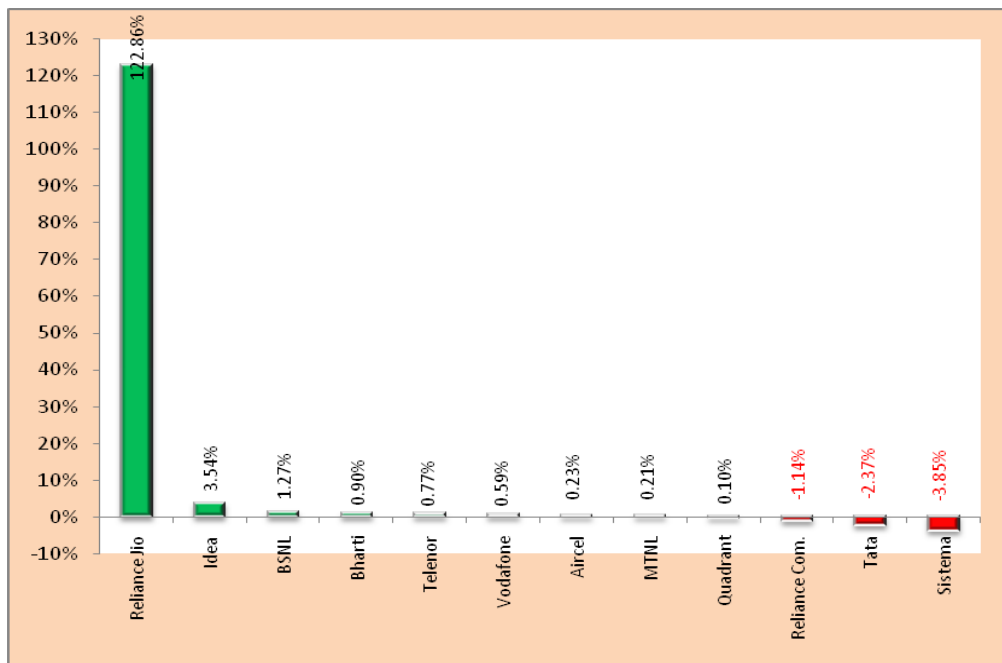
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

Service Area wise proportion of VLR Subscribers in the Month of October, 2016

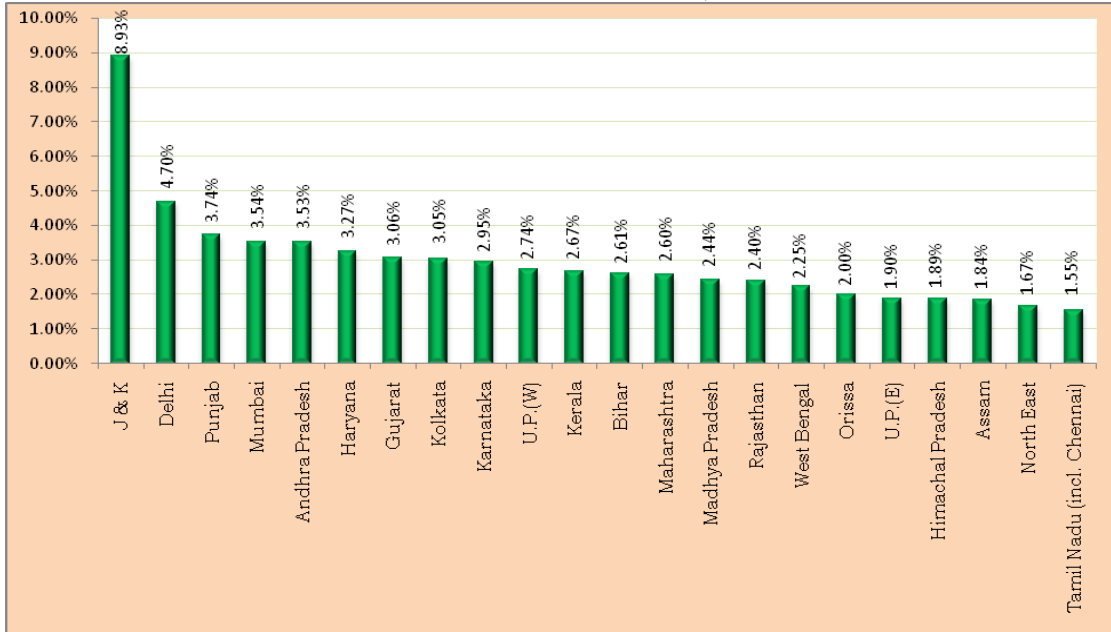


V. Growth in Wireless Subscribers

Access Service Provider-wise Monthly Growth Rate of Wireless Subscriber base in the Month of October, 2016



Service Area-wise Monthly Growth Rate of Wireless Subscriber base in the Month of October, 2016



- All the service areas showed positive growth in wireless subscribers during the month of Oct-16. J&K service area recorded the highest growth rate in wireless subscribers during the same period.

VI. Mobile Number Portability (MNP)

- Intra-service area Mobile number portability (MNP) was implemented first in Haryana service area w.e.f. 25.11.2010 and in the rest of the country w.e.f. 20.01.2011. Inter-Service Area MNP has been implemented in the country w.e.f. 03.07.2015. Now, the wireless telephone subscribers can retain their mobile numbers when they relocate from one service area to another.
- In the month of Oct-16, a total of 4.93 million requests were received for MNP. With this, the cumulative MNP requests increased from 239.46 million at the end of Sep-16 to 244.39 million at the end of Oct-16, since the implementation of MNP.
- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Rajasthan (about 20.66 million) followed by Gujarat (about 18.03 million).

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 27.08 million) followed by Andhra Pradesh (about 22.56 million).

Service Area Wise MNP Status at the end of October, 2016			
Zone -I		Zone - II	
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	10008768	Andhra Pradesh	22557309
Gujarat	18034248	Assam	1219407
Haryana	9554272	Bihar	9246838
Himachal Pradesh	870000	Karnataka	27079640
Jammu & Kashmir	95846	Kerala	7095524
Maharashtra	16668483	Kolkata	5250786
Mumbai	13575900	Madhya Pradesh	17097257
Punjab	8684005	North East	484494
Rajasthan	20663548	Orissa	4974015
Uttar Pradesh - East	11872944	Tamil Nadu	15352603
Uttar Pradesh - West	11003691	West Bengal	12999374
Total	121,031,705	Total	123,357,247
Total (Zone-I + Zone-II)			244,388,952
Net Addition (in October, 2016)			4,926,000

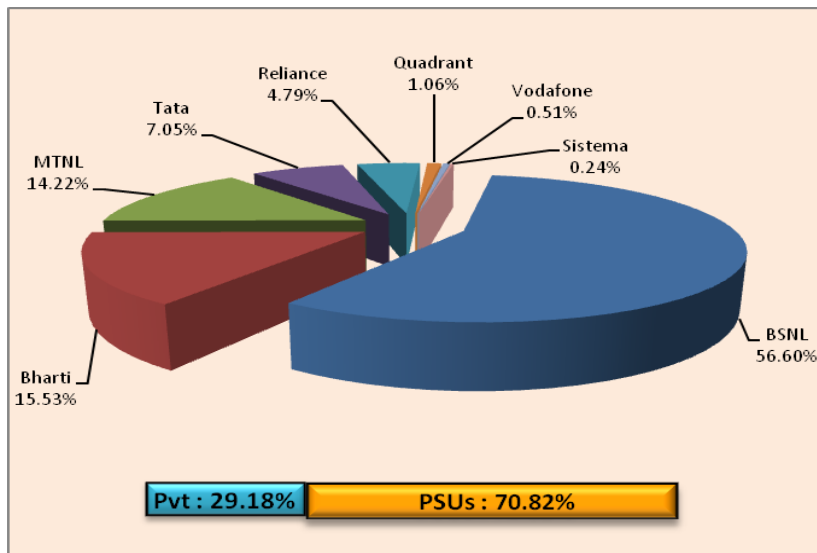
Note: For Zone-II, available MNP data for October, 2016 are provisional.

VII. Wireline Subscribers

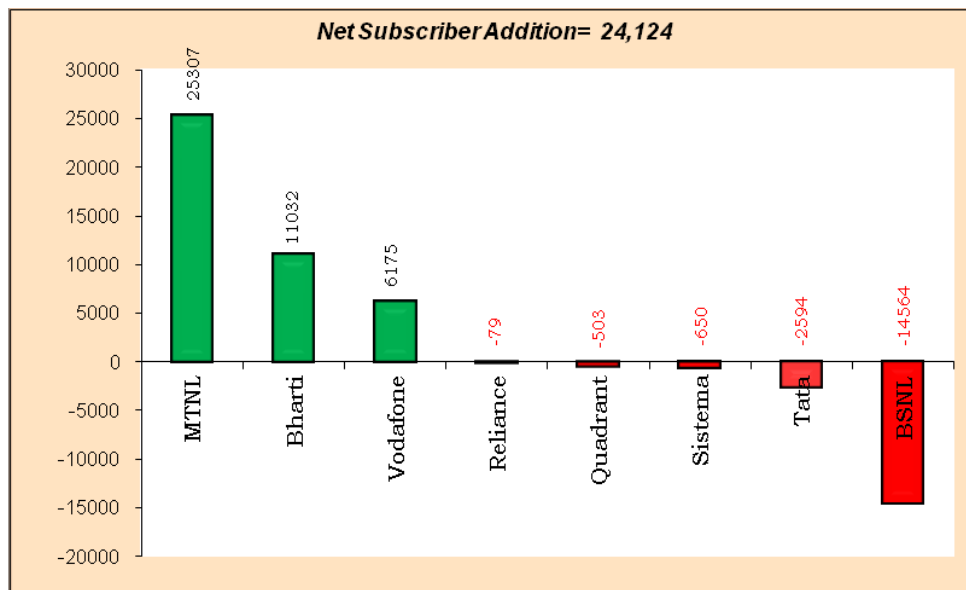
- Wireline subscriber base increased from 24.49 million at the end of Sep-16 to 24.52 million at the end of Oct-16. Net addition in the wireline subscriber base was 0.02 million with a monthly growth rate of 0.10%. The share of urban and rural subscribers in total wireline subscribers were 84.04% and 15.96% respectively at the end of Oct-16.
- The Overall Wireline Tele-density remained same i.e. 1.92 at the end of Oct-16 as compared to the end of Sep-16. Urban Wireline Tele-density and Rural Wireline Tele-density were 5.15 and 0.45 respectively during the same period.

- BSNL and MTNL, the two PSU access service providers, held 70.82% of the wireline market share. Detailed statistics of wireline subscriber base are available at **Annexure-III**.
- The graphical representations of service provider-wise market shares in the wireline segment and net additions in wireline subscriber bases in the month of Oct-16 are given below:

Access Service Provider-wise Market Shares in term of Wireline Subscriber base as on 31st October, 2016



Access Service Provider-wise Net Additions/declines in Wireline Subscriber Base in the Month of October, 2016



VIII. Broadband (\geq 512 Kbps download)

- As per the reports received from the service providers, the number of broadband subscribers increased from 192.30 Million at the end of Sep-16 to 218.42 million at the end of Oct-16 with a monthly growth rate of 13.59%. Segment-wise broadband subscribers and their monthly growth rates are as below:

Segment-wise Broadband Subscriber base and Monthly Growth Rates in the month of October, 2016

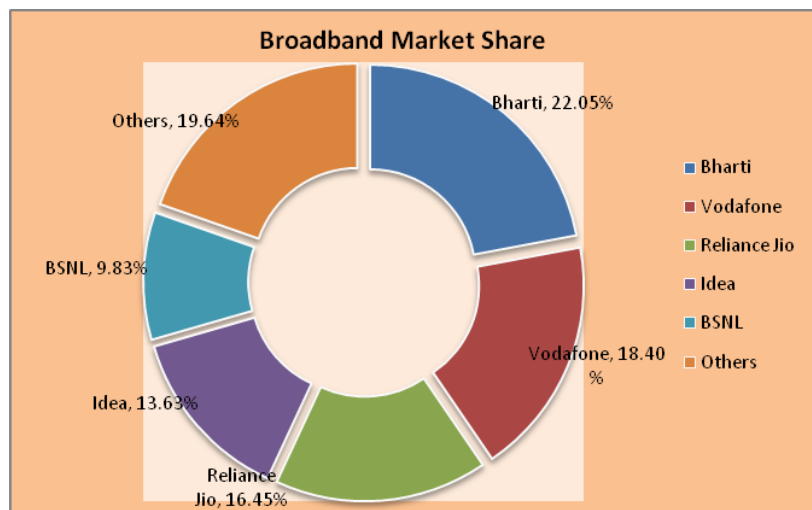
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of Oct-16
	As on 30 th September, 2016	As on 31 st October, 2016	
Wired subscribers	17.84	17.93	0.54%
Mobile devices users (Phones and dongles)	173.87	199.90	14.97%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.60	0.60	0.0%
Total	192.30	218.42	13.59%

- Top five service providers constituted 80.36% market share of the total broadband subscribers at the end of Oct-16. These service providers were Bharti Airtel (48.17 million), Vodafone (40.19 million), Reliance Jio Infocom Ltd (35.94 million), Idea Cellular (29.76 million) and BSNL (21.46 million).

Note: Some wireless service providers exclude incidental data users from their subscriber base, based on minimum usage decided by them.

- The graphical representation of the service provider-wise market share of broadband services is given below:

**Service Provider-wise Market Share of Broadband
(wired+wireless) Services as on 31.10.2016**



- As on 31st October, 2016, the top five Wired Broadband Service providers were BSNL (9.94 million), Bharti Airtel (1.95 million), Atria Convergence Technologies (1.12 million), MTNL (1.06 million) and YOU Broadband (0.59 million).
- As on 31st October, 2016, the top five Wireless Broadband Service providers were Bharti Airtel (46.22 million), Vodafone (40.19 million), Reliance Jio Infocomm Ltd (35.94 million), Idea Cellular (29.76 million) and Reliance Communications (16.95 million).

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Authorized to issue:

(Vinod Kotwal)
Advisor (F&EA)

Wireless Subscriber Base

Annexure-I

Circle	Group											
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel	
	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16
Andhra Pradesh	24494705	24749200	3958524	3725462	6912483	6998696	4360932	4294450	16117217	16788412	2515070	2530099
Assam	6204577	6239681	1388329	1383658	3855986	3898309			1174550	1228166	5567244	5598124
Bihar	29246581	29600178	3415983	3408443	9307676	9456972	1594301	1534520	11037306	11404887	7346370	7371054
Delhi	11432142	11434620	5539409	5482864	10423973	10478494	1813846	1794749	6260193	6404587	6616495	6663544
Gujarat	8711270	8771087	5998180	5972082	19591031	19631476	2869996	2765325	12216554	12658749	17063	17063
Haryana	3333550	3352379	1544821	1522506	5546922	5642373	2881912	2804167	4790900	4951348	3092	3092
Himachal Pradesh	2917431	2923720	1595450	1551574	733571	735809	60505	58110	815076	827195	1106934	1113205
J & K	3072866	3324153	966307	968492	831343	907325			439938	554082	2732907	2771757
Karnataka	21630732	21772639	5138066	5139715	7808376	7801048	7047464	6930248	8759326	9325866	3288019	3310214
Kerala	4530673	4539252	1451767	1451102	7693378	7712400	1516213	1469934	10811853	11010120	365865	373997
Kolkata	4825039	4827302	4237250	4286977	5575130	5577313	2732120	2693759	2213046	2306820	4242022	4273414
Madhya Pradesh	13374101	13497678	10110279	9525891	6906951	6929061	4848026	4677087	22040127	23038435	20694	20694
Maharashtra	13657217	13790077	4402118	4425251	18566063	18650321	6208842	6103078	24038879	24762568	2706361	2722427
Mumbai	6044841	6084684	4897371	4910854	8882520	8941933	3007508	2888462	4233013	4361482	2972202	2955680
North East	4015546	4062161	385134	393699	1619313	1628889			525281	544741	3438367	3411587
Orissa	10760636	10849418	2215616	2219397	4180247	4226332	2119177	2059818	1799105	1868371	4710912	4721724
Punjab	8217016	8285945	1645613	1610204	5178416	5196406	2686383	2647713	6465841	6613083	1145068	1155973
Rajasthan	19909190	20134397	5967544	5961138	11925936	11896389	1489737	1475013	7586197	7898707	6608299	6602752
Tamil Nadu (incl. Chennai)	18028189	18038345	5270631	5208564	15874774	15906724	4352874	4245753	6351281	6424623	21788965	21779029
U.P.(E)	21772412	22033440	8164195	8145549	19395061	19460130	3811096	3719231	10892972	11228182	7133542	7077305
U.P.(W)	8432337	8502777	5504703	5473352	11378616	11526623	3254999	3152670	14635159	15105586	785317	799081
West Bengal	15329615	15454463	3362695	3400310	18533481	18697878	397849	386724	5612524	5847919	5030171	5072346
Total	259940666	262267596	87159985	86167084	200721247	201900901	57053780	55700811	178816338	185153929	90140979	90344161
Net Addition		2326930		-992901		1179654		-1352969		6337591		203182

Wireless Subscriber Base

Annexure-I (contd.)

Circle	Group												Total		Net Addition
	BSNL		MTNL		Telenor		Sistema		Quadrant		Reliance Jio		Sep-16	Oct-16	
	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16			
Andhra Pradesh	9722463	9724480			5467802	5497182					1237466	3116678	74786662	77424659	2637997
Assam	1393454	1404494									252467	449914	19836607	20202346	365739
Bihar	3771984	3883688			9855323	9924396					988639	1974963	76564163	78559101	1994938
Delhi			2324062	2327271			808382	767666			694861	2715930	45913363	48069725	2156362
Gujarat	4096413	4192723			8226967	8310738	183948	174456			1462574	2820692	63373996	65314391	1940395
Haryana	3459760	3537545									678893	1153934	22239850	22967344	727494
Himachal Pradesh	1921532	1948409									176772	345831	9327271	9503853	176582
J & K	1447703	1491935									82788	410891	9573852	10428635	854783
Karnataka	6941476	6952792					990214	954094			999860	2260716	62603533	64447332	1843799
Kerala	8351858	8483488					297058	289720			578635	1218384	35597300	36548397	951097
Kolkata	812107	821697					478321	463014			598666	1246845	25713701	26497141	783440
Madhya Pradesh	4654999	4728681									893309	1962285	62848486	64379812	1531326
Maharashtra	6258548	6337880			8159140	8132873					977086	2258827	84974254	87183302	2209048
Mumbai			1288665	1293181							572444	1591063	31898564	33027339	1128775
North East	1614598	1621407									106560	238218	11704799	11900702	195903
Orissa	4676552	4693348									576339	1020211	31038584	31658619	620035
Punjab	4166782	4270570							2975399	2978406	790018	1756278	33270536	34514578	1244042
Rajasthan	4792815	4865479					1902826	1817717			961505	1962546	61144049	62614138	1470089
Tamil Nadu (incl. Chennai)	8844329	8856710					622257	604280			1066478	2412676	82199778	83476704	1276926
U.P.(E)	10119574	10279480			12624993	12960576					894394	1706236	94808239	96610129	1801890
U.P.(W)	4975721	5094471			8523574	8438899	128297	125580			850054	1850349	58468777	60069388	1600611
West Bengal	1742686	1763507					1306805	1263026			539937	1138407	51855763	53024580	1168817
Total	93765354	94952784	3612727	3620452	52857799	53264664	6718108	6459553	2975399	2978406	15979745	35611874	1049742127	1078422215	28680088
Net Addition		1187430		7725		406865		-258555		3007		19632129		28680088	

Proportion of VLR on the date of Peak VLR in the month of Oct-16 (%)

Annexure-II

Circle	Aircel	Bharti	BSNL	Quadrant	Idea	MTNL	Reliance	Reliance Jio	Sistema	Tata	Telenor	Vodafone	Total
Andhra Pradesh	63.84	97.12	83.47		100.23		97.58	86.71		89.34	76.79	83.52	91.49
Assam	83.67	96.09	86.20		96.51		4.01	90.76				102.61	86.82
Bihar	85.93	96.83	71.97		100.79		8.73	102.75		74.32	70.87	106.48	88.92
Delhi	63.74	95.39			101.66	54.06	97.63	92.00	47.28	59.41		99.94	88.78
Gujarat	2938.87	95.39	82.17		102.40		97.95	87.92	50.34	75.93	71.69	93.24	91.95
Haryana	0.39	97.87	54.22		102.14		98.42	97.33		83.45		96.57	89.98
Himachal Pradesh	50.81	94.60	74.78		110.35		98.92	96.62		35.27		90.25	86.86
J & K	79.54	95.30	79.44		102.06		46.57	73.21				90.33	83.37
Karnataka	59.22	99.51	73.23		100.59		97.85	91.19	70.04	90.73		91.92	92.04
Kerala	70.46	94.09	80.06		105.25		97.97	89.60	63.82	87.48		91.68	92.94
Kolkata	69.25	96.09	96.56		92.66		98.77	82.51	94.40	81.99		96.95	89.99
Madhya Pradesh	0.92	96.96	79.87		104.23		98.76	93.67		77.82		75.61	94.75
Maharashtra	56.64	98.36	81.06		102.15		98.07	107.68		81.10	74.64	95.91	93.16
Mumbai	55.31	95.19			89.55	72.03	96.91	73.18		83.76		87.40	86.06
North East	63.53	96.28	70.20		95.92		6.91	97.73				93.31	79.99
Orissa	59.50	96.70	77.72		97.97		8.44	86.60		81.46		105.38	82.07
Punjab	61.66	99.46	73.64	49.53	101.56		98.68	88.00		74.96		90.56	87.25
Rajasthan	54.18	96.40	76.30		101.98		98.72	98.24	63.03	115.16		93.18	90.23
Tamil Nadu (incl. Chennai)	67.49	96.63	80.03		96.80		98.14	91.80	57.46	75.76		99.16	86.37
U.P. (E)	70.08	98.89	71.32		104.81		98.56	112.69		76.16	72.28	94.74	89.47
U.P. (W)	98.98	98.96	63.94		101.46		98.69	104.23	52.50	79.12	75.17	98.20	92.13
West Bengal	79.75	97.51	87.72		104.04		8.07	106.98	67.23	59.17		100.59	90.76
Total	68.93	97.21	76.44	49.53	101.73	60.48	86.31	93.70	64.23	81.56	73.21	95.25	89.99

Note: Peak VLR figures in some circles of some of the service providers are more than their HLR figures due to a large number of inroamers.

Wireline Subscriber Base

Annexure-III

Circle	Group																Total		Net Addition
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant		Sistema		Vodafone		Sep-16	Oct-16	
	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16	Sep-16	Oct-16			
Andhra Pradesh	1234923	1233735			154512	155429	75756	75726	171362	170915					11,010	11,040	1647563	1646845	-718
Assam	155682	156272													1,950	1,950	157632	158222	590
Bihar	302111	303313					6,299	6,370	13,081	12,994					1170	1200	322661	323877	1216
Delhi			1612218	1611391	1254086	1258661	174416	174334	134909	135348					24,120	26,760	3199749	3206494	6745
Gujarat	1104443	1104395			76021	76031	73694	73490	87407	87262					5,370	5,490	1346935	1346668	-267
Haryana	290,269	290,318			22416	22525	4397	4247	36974	37341							354056	354431	375
Himachal Pradesh	149,374	148,242					4074	3984	2641	2633					30	30	156119	154889	-1230
J & K	129,354	133,096															129354	133096	3742
Karnataka	1228467	1230009			617140	617475	154215	154724	207440	208025					19,500	21,540	2226762	2231773	5011
Kerala	2039586	2032227			57278	57387	33186	33156	18739	18625					1620	1710	2150409	2143105	-7304
Kolkata	630643	624318			119150	119802	69154	69154	49255	48524					5190	5220	873392	867018	-6374
Madhya Pradesh	724554	725901			272973	272987	19732	19751	16380	16026					420	420	1034059	1035085	1026
Maharashtra	1428521	1426712			76564	77153	82540	82344	284392	284868					12,402	12,634	1884419	1883711	-708
Mumbai			1848292	1874426	351977	352504	255230	255682	533345	530492					19914	20067	3008758	3033171	24413
North East	122655	122550													150	150	122805	122700	-105
Orissa	278217	277846					3293	3281	8334	8242					1,080	1,080	290924	290449	-475
Punjab	616366	615575			117126	117983	21284	21104	16979	16850	259732	259229			930	990	1032417	1031731	-686
Rajasthan	621367	618795			48304	48334	20164	20063	11771	11892			58671	58021	2,010	2,070	762287	759175	-3112
Tamil Nadu (incl. Chennai)	1748466	1748814			542900	545151	134097	134075	109746	110227					9270	9690	2544479	2547957	3478
U.P.(E)	383493	383648			63816	63848	34822	34815	15485	15480					1,170	1,320	498786	499111	325
U.P.(W)	370099	369267			23026	23051	7187	7127	10129	10058					930	1050	411371	410553	-818
West Bengal	333714	332707					1943	1977	3947	3920					60	60	339664	338664	-1000
Total	13892304	13877740	3460510	3485817	3797289	3808321	1175483	1175404	1732316	1729722	259732	259229	58671	58021	118296	124471	24494601	24518725	24124
Net Addition		-14564		25307		11032		-79		-2594		-503		-650		6175		24124	

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 service provider. 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 service provider. 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 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 Distribution 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.