

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 30th December, 2015

(www.trai.gov.in)

**Highlights of Telecom Subscription Data as on 31st October, 2015**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1,003.49	25.85	1,029.34
Net Addition in October, 2015 (Million)	6.83	-0.10	6.73
Monthly Growth Rate	0.69%	-0.39%	0.66%
Urban Telephone Subscribers (Million)	578.11	21.14	599.25
Net Addition in October, 2015 (Million)	0.29	-0.04	0.24
Monthly Growth Rate	0.05%	-0.19%	0.04%
Rural Telephone Subscribers (Million)	425.38	4.71	430.09
Net Addition in October, 2015 (Million)	6.54	-0.06	6.48
Monthly Growth Rate	1.56%	-1.26%	1.53%
Overall Tele-density*	79.39	2.05	81.44
Urban Tele-density*	147.19	5.38	152.58
Rural Tele-density*	48.83	0.54	49.37
Share of Urban Subscribers	57.61%	81.78%	58.22%
Share of Rural Subscribers	42.39%	18.22%	41.78%
Broadband Subscribers (Million)	108.95	16.27	125.22

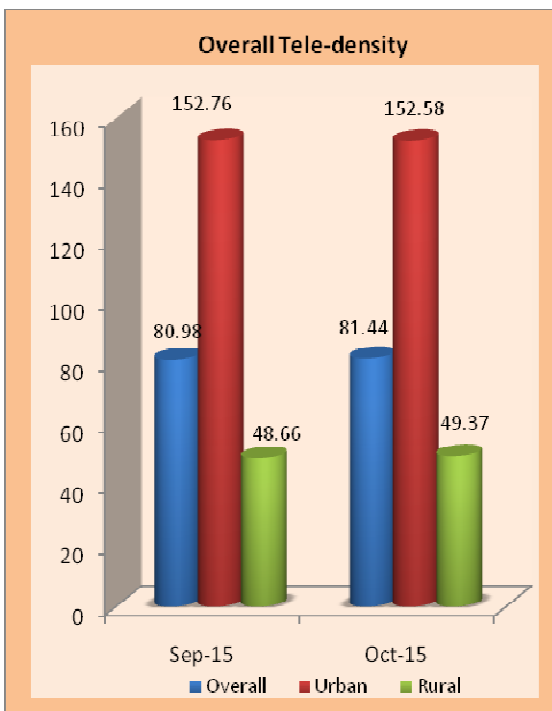
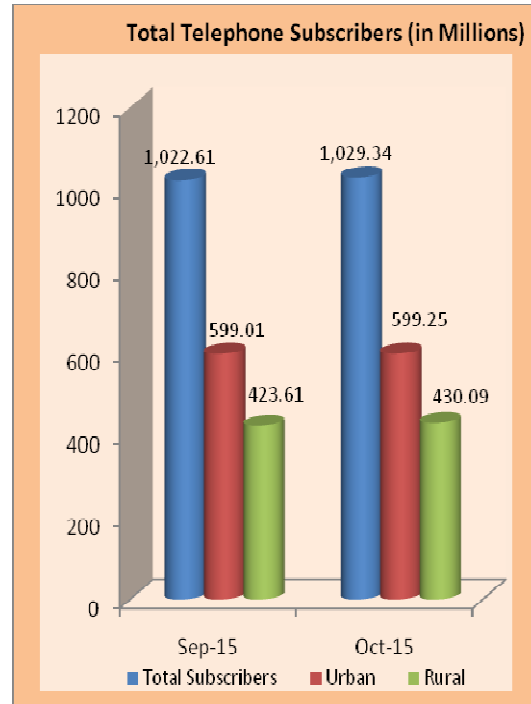
- ❖ In the month of October, 2015, 5.11 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 176.39 million at the end of September, 2015 to 181.50 million at the end of October, 2015.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in October, 2015 was 902.26 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.

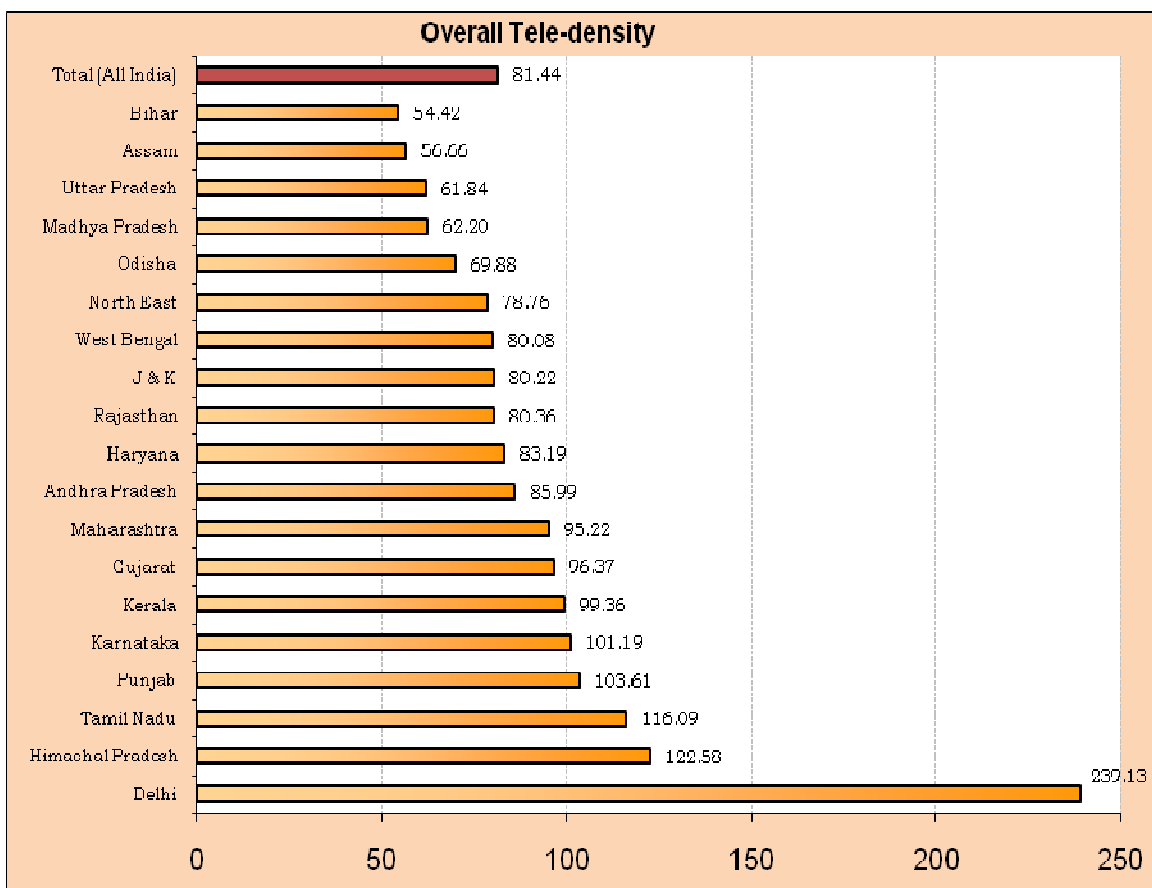
I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,022.61 million at the end of Sep-15 to 1,029.34 million at the end of Oct-15, thereby showing a monthly growth rate of 0.66%. The urban subscription increased from 599.01 million at the end of Sep-15 to 599.25 million at the end of Oct-15 and the rural subscription increased from 423.61 million to 430.09 million during the same period. The monthly growth rates of urban and rural subscription were 0.04% and 1.53% respectively during the month of Oct-15.



- The overall Tele-density in India increased from 80.98 at the end of Sep-15 to 81.44 at the end of Oct-15. The Urban Tele-density slightly declined from 152.76 at the end of Sep-15 to 152.58 at the end of Oct-15. The Rural Tele-density increased from 48.66 at the end of Sep-15 to 49.37 at the end of Oct-15. The share of urban subscribers and rural subscribers at the end of Oct-15 was 58.22% and 41.78% respectively.

Overall Tele-density (Circle/State Wise) – As on 31st October, 2015

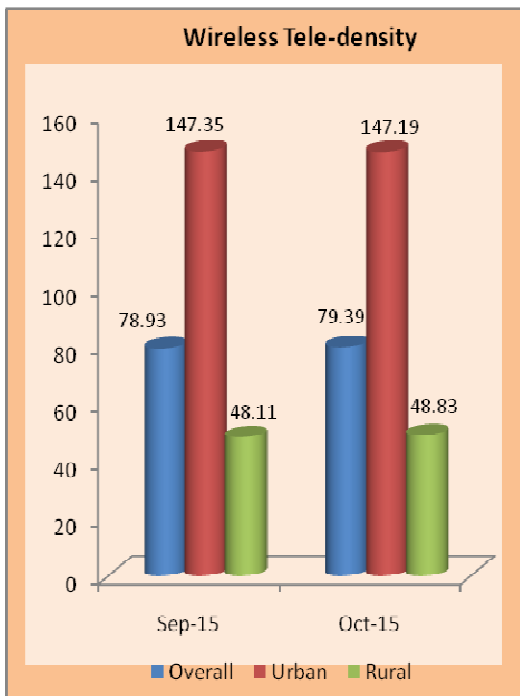
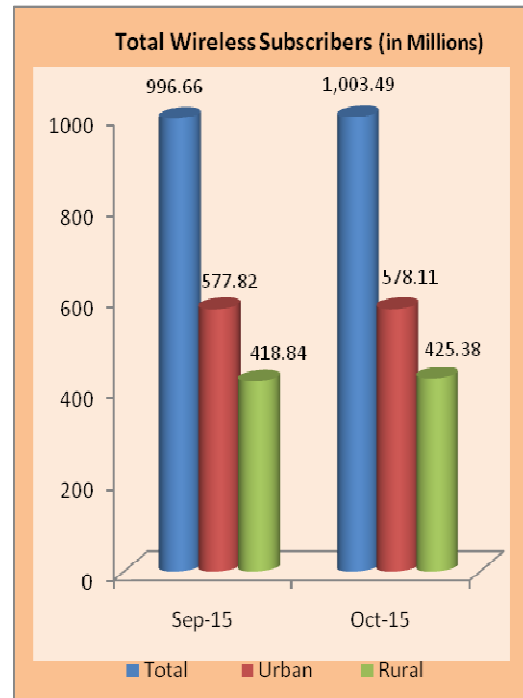


Notes:

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). West Bengal includes Kolkata, Maharashtra includes Mumbai and Tamil Nadu includes Chennai.

II. Wireless Subscribers

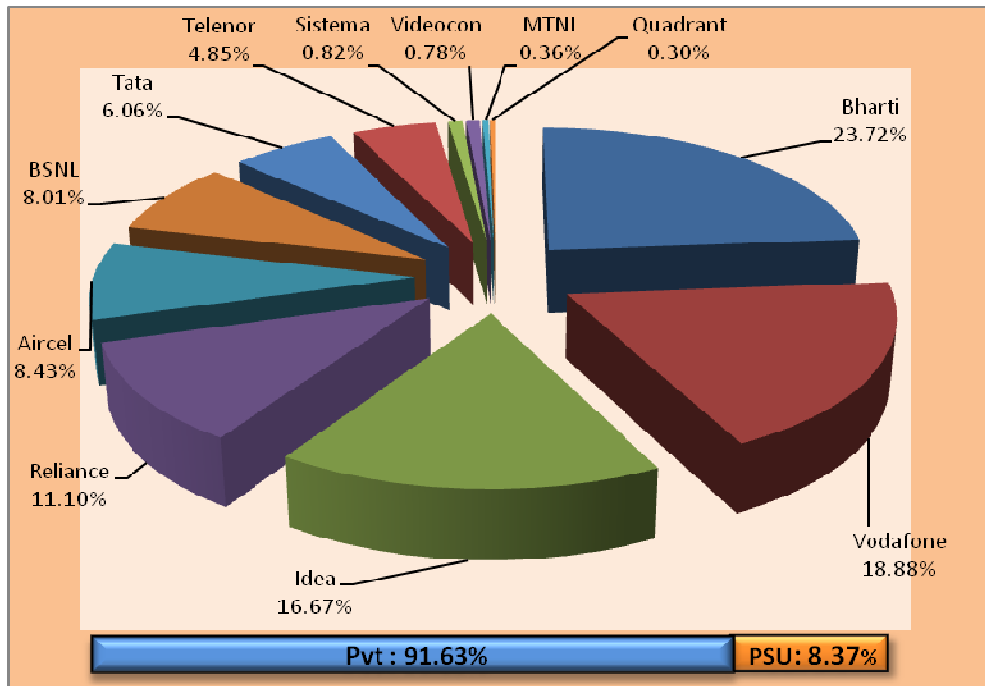
- Total wireless subscriber base increased from 996.66 million at the end of Sep-15 to 1,003.49 million at the end of Oct-15, thereby registering a monthly growth rate of 0.69%. The Wireless subscription in urban areas increased from 577.82 million at the end of Sep-15 to 578.11 million at the end of Oct-15, and wireless subscription in rural areas increased from 418.44 million to 425.38 million during the same period. The monthly growth rates of urban and rural wireless subscription were 0.05% and 1.56% respectively.



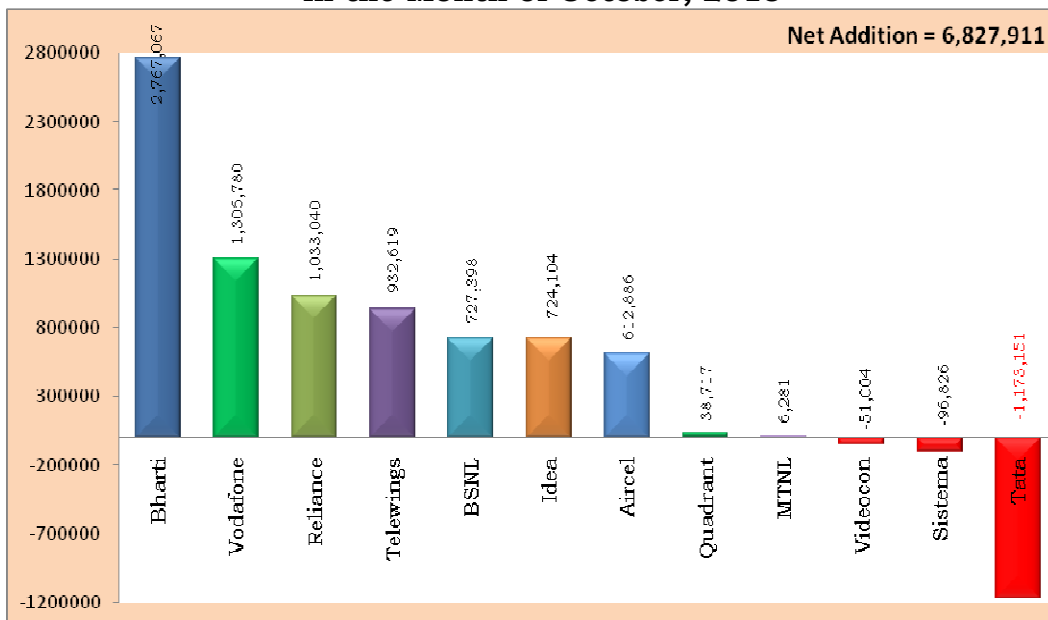
- The Wireless Tele-density in India increased from 78.93 at the end of Sep-15 to 79.39 at the end of Oct-15. The Urban Wireless Tele-density slightly declined from 147.35 to 147.19, whereas Rural Wireless Tele-density increased from 48.11 to 48.83 in the month of Oct-15. The shares of urban and rural wireless subscribers were 57.61% and 42.39% respectively at the end of Oct-15. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 31st October, 2015, the private access service providers held 91.63% market share of the wireless subscribers whereas BSNL and MTNL, the two PSUs access service providers, had only 8.37% market share. The graphical representations of access service provider-wise market share and net additions in wireless subscriber bases are given below:

Access Service Provider-wise Market Shares in the Wireless Subscribers as on 31st October, 2015



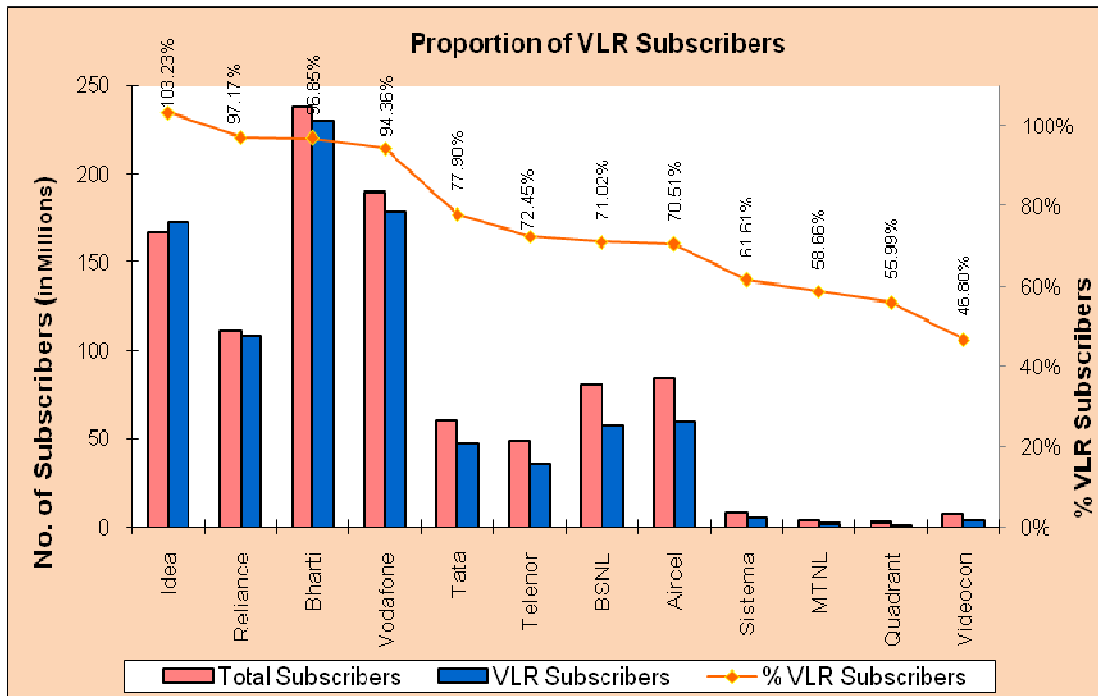
Net Additions in Wireless Subscriber Bases of Access Service Providers in the Month of October, 2015



III. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscriber base (1,003.49 million), 902.26 million wireless subscribers were active on the date of peak VLR in the month of Oct-15. The proportion of active wireless subscribers was approximately 89.91% 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-15 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

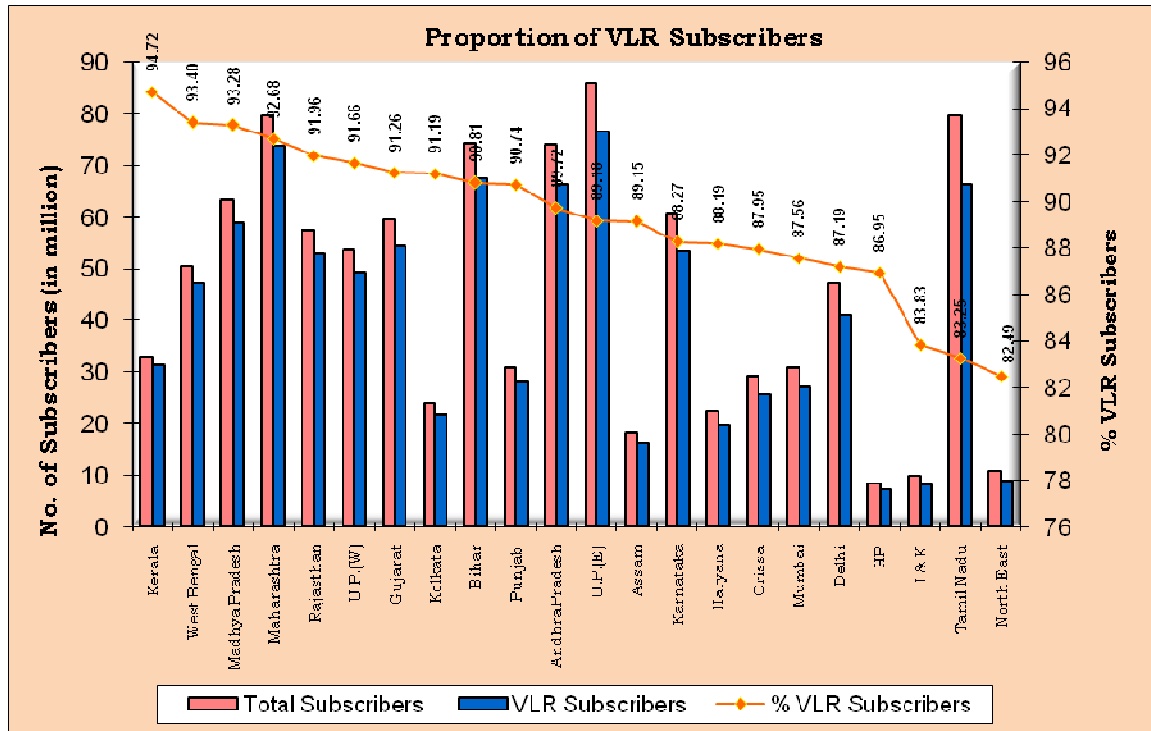
**Access Service Provider-wise Proportion of VLR Subscribers
in the Month of October, 2015**



Note-

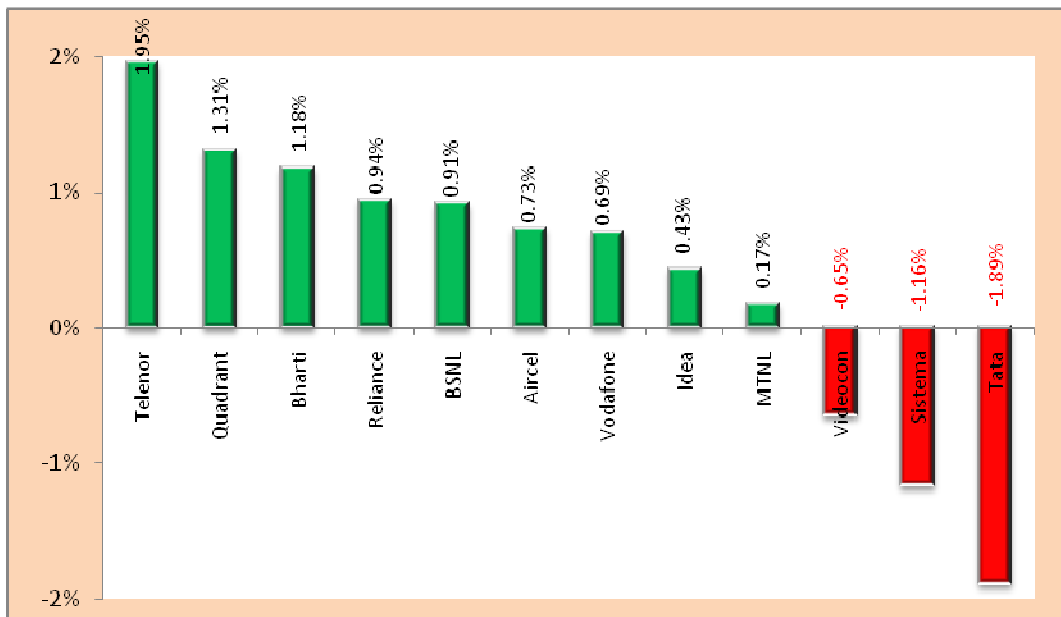
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

**Proportion of VLR Subscribers (Service Area-wise)
in the Month of September, 2015**



IV. Growth in Wireless Subscribers

**Monthly Growth Rate of Wireless Subscribers (Access Service Provider-wise)
in the Month of October, 2015**



Monthly Growth Rate of Wireless Subscribers (Service Area-wise) in the Month of October, 2015



- North-East service area recorded the highest growth rate in wireless subscribers during the month of Oct-15. Delhi and Punjab service areas showed decline in subscriber base during the month.

V. Mobile Number Portability (MNP)

- 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-15, a total of 5.11 million subscribers submitted their requests for MNP. With this, the cumulative MNP requests increased from 176.39 million at the end of Sep-15 to 181.50 million at the end of Oct-15.
- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Rajasthan (about 16.64 million) followed by Gujarat (about 14.16 million). In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 21.08 million) followed by Andhra Pradesh (about 17.55 million).

- The status of MNP requests in various service areas is given below:

Service Area Wise MNP Status at the end of October, 2015			
Zone -1		Zone - 2*	
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	7255306	Andhra Pradesh	17547980
Gujarat	14161340	Assam	616353
Haryana	6569348	Bihar	4952444
Himachal Pradesh	619341	Karnataka	21076498
Jammu & Kashmir	45818	Kerala	5966673
Maharashtra	13518561	Kolkata	4222040
Mumbai	10064237	Madhya Pradesh	11655799
Punjab	6389617	North East	339227
Rajasthan	16636740	Orissa	3503421
Uttar Pradesh - East	8688553	Tamil Nadu	11388622
Uttar Pradesh - West	8672854	West Bengal	7609833
Total	92,621,715	Total	88,878,890
Total (Zone-1 + Zone-2)			181,500,605*
Net Addition (in October, 2015)			5,108,783

*The figure is inclusive of 0.66 Million MNP requests for Inter-Service Area MNP

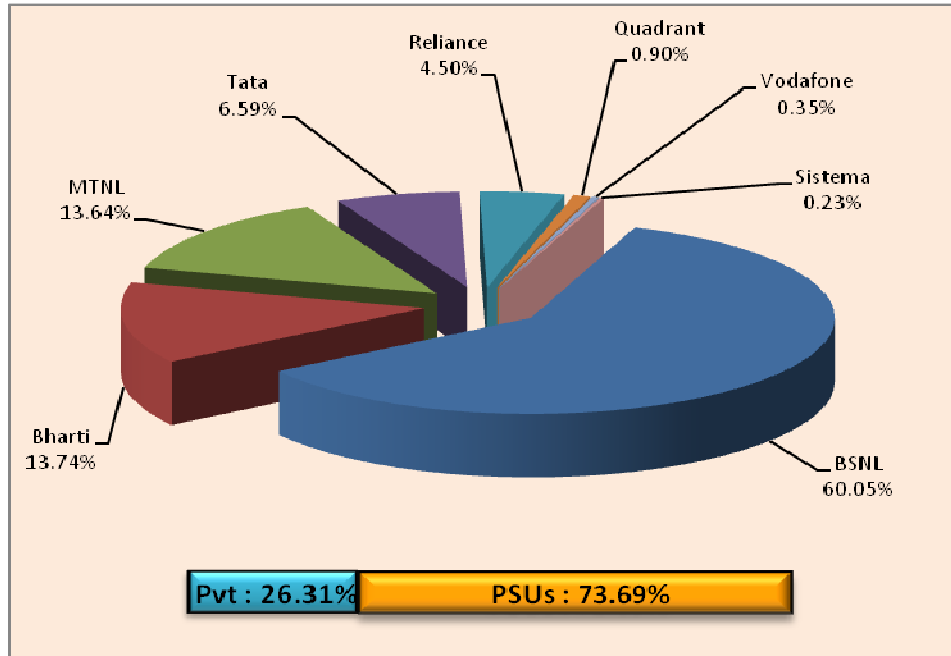
Provision MNP data is available for Zone-II for the month of October, 2015.

VI. Wireline Subscribers

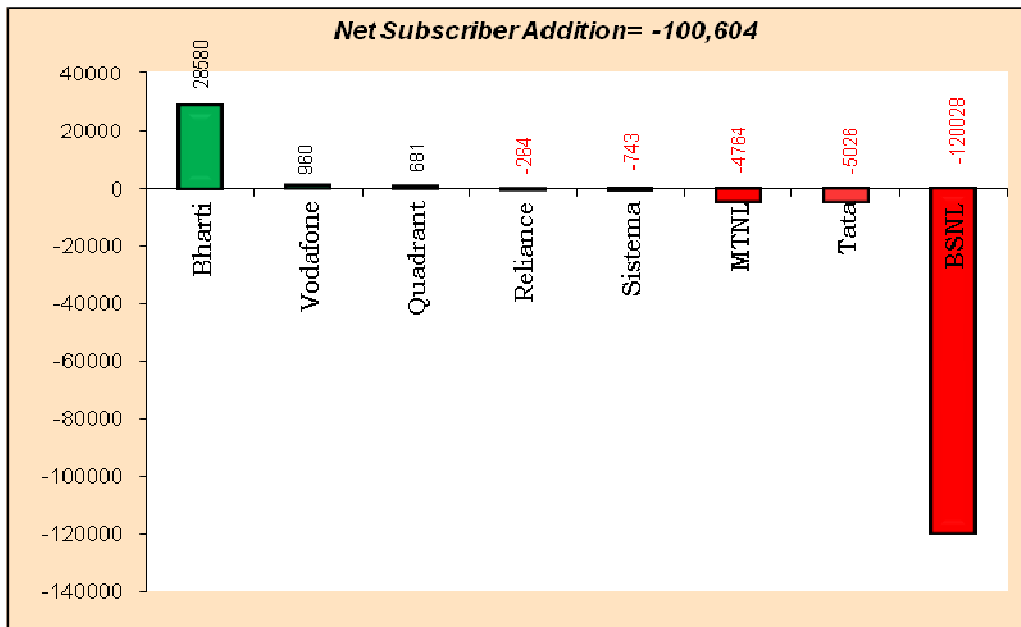
- Wireline subscriber base declined from 25.95 million at the end of Sep-15 to 25.85 million at the end of Oct-15. Net reduction in the wireline subscriber base was 0.10 million at the monthly decline rate of 0.39%. The share of urban and rural subscribers in total wireline subscribers were 81.78% and 18.22% respectively at the end of Oct-15.
- The Overall Wireline Tele-density slightly declined from 2.06 in Sep-15 to 2.05 in Oct-15. Urban Wireline Tele-density and Rural Wireline Tele-density being 5.38 and 0.54 respectively. BSNL and MTNL, the two PSU access service providers, held 73.69% of the wireline market share. Detailed statistics of wireline subscriber base are available at **Annexure-III**.

- The graphical representations of access service provider-wise market shares in the wireline segment and net additions in wireline subscriber bases in the month of Oct-15 are given below:

Access Service Provider-wise Market Shares in the Wireline Subscribers as on 31st October, 2015



Net Additions/declines in Wireline Subscriber Bases of Access Service Providers in the Month of October, 2015



VII. Category-wise Growth

Circle Category-wise Net Additions in Telephone Subscribers

Circle Category	Net additions in the month of October, 2015		Telephone Subscriber base as on 31 st October, 2015	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-53,731	2,652,883	10,315,475	353,501,798
Circle B	-39,087	2,768,191	7,117,845	397,255,098
Circle C	-1,529	1,213,469	1,271,438	150,761,330
Metro	-6,257	193,368	7,148,479	101,969,566
All India	-1,00,604	6,827,911	25,853,237	1,003,487,792

Circle Category-wise Growth Rates in Telephone Subscribers

Circle Category	Monthly growth rate (%) (Sep-15 to Oct-15)		Yearly growth rate (%) (Oct-14 to Oct-15)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-0.52	0.76	-4.54	5.28
Circle B	-0.55	0.70	-9.43	7.72
Circle C	-0.12	0.81	-10.21	12.93
Metro	-0.09	0.19	-0.74	4.81
All India	-0.39	0.69	-5.24	7.29

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, the Circles of Category-B showed the maximum net addition and Circles in Category-C showed the maximum growth rate in the month Oct-15.
- In Wireline segment, Circles of Category-A showed the highest net decline and Circles in Category-B showed the highest monthly decline rate of subscriber base in the month of Oct-15.

VIII. Broadband (\geq 512 Kbps download)

- As per the reports received from the service providers, the number of broadband subscribers increased from 120.88 Million at the end of Sep-15 to 125.22 million at the end of Oct-15 with monthly growth rate of 3.59%. Segment-wise broadband subscribers and their monthly growth rates are as below:

Segment-wise Broadband Subscribers and Monthly Growth Rates

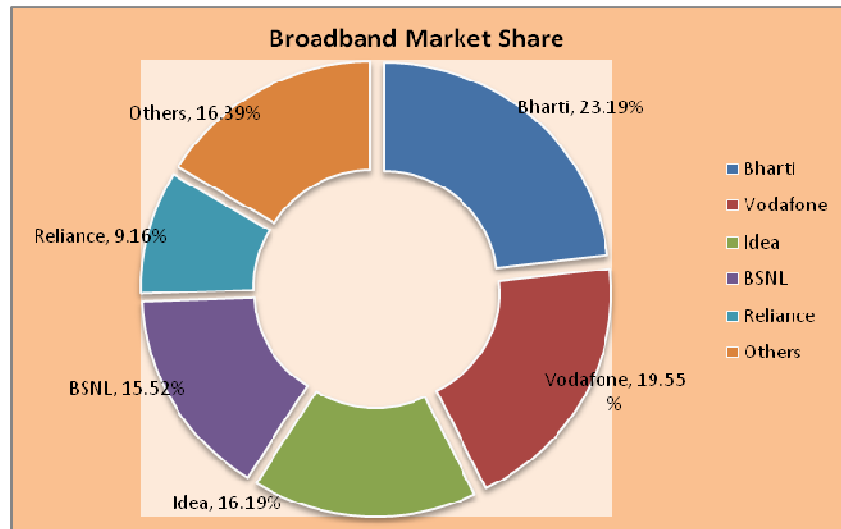
Segment	Broadband subscribers (in million)		Monthly growth rate (%)
	As on 30 th September, 2015	As on 31 st October, 2015	
Wired subscribers	16.13	16.27	0.87
Mobile devices users (Phones and dongles)	104.28	108.48	4.02
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to- Point Radio & VSAT)	0.47	0.47	1.13
Total	120.88	125.22	3.59

- Top five service providers constituted 83.61% market share of total broadband subscribers at the end of Oct-15. These service providers were Bharti Airtel (29.03 million), Vodafone (24.48 million), Idea Cellular (20.28 million), BSNL (19.43 million) and Reliance Communications Group (11.47 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 31.10.2015**



- As on 31st October, 2015, the top five Wired Broadband Service providers were BSNL (9.94 million), Bharti Airtel (1.61 million), MTNL (1.13 million), Atria Convergence Technologies (0.82 million) and YOU Broadband (0.49 million).
- As on 31st October, 2015, the top five Wireless Broadband Service providers were Bharti Airtel (27.42 million), Vodafone (24.47 million), Idea Cellular (20.26 million), Reliance Communications Group (11.36 million) and BSNL (9.49 million).

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Authorized to issue:

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Advisor (F&EA)

Wireless Subscriber Base

Annexure-I

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Circle	Group											
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel	
	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15
Andhra Pradesh	22651765	22956385	5403021	5557696	6954949	7023059	5420765	5296990	14728161	14972232	2773130	2797644
Assam	5439363	5457081	2422860	2436121	3271682	3293579			950180	965888	4676910	4728356
Bihar	26255322	26452567	9276362	9415260	9021101	9128665	1878619	1825875	10082178	10045275	6767721	6803970
Delhi	11166973	11174880	8316134	8228641	9804376	9817066	2654290	2621507	6166777	6159725	5892684	5934306
Gujarat	7926320	7953959	4861590	5027938	18737025	18862803	2748886	2717725	11603066	11653657	17063	17063
Haryana	2679612	2729315	2016420	2062481	5209388	5207159	2700228	2680975	4613658	4612996	3092	3092
Himachal Pradesh	2714387	2727253	1646664	1694196	671176	682592	83023	75602	773320	780922	1038137	1046038
J & K	3362957	3373915	831620	824410	1212542	1221018			584390	588492	2543768	2544779
Karnataka	20459003	20634634	5341725	5486923	7457888	7536533	7142198	7083929	8695446	8693589	2904715	2940281
Kerala	4132605	4193378	2057029	2078058	7428749	7454078	1589786	1528090	10151901	10132387	130162	153270
Kolkata	4264007	4321028	4103389	4194288	5065506	5129993	2854913	2783709	1964934	1978838	3956840	4003374
Madhya Pradesh	11925729	12031821	12404287	12648269	6546071	6577820	4698608	4653690	20069566	20093036	20694	20694
Maharashtra	12202849	12304105	4979368	5114948	17873359	17939596	6390709	6346563	22519345	22678186	2354961	2395189
Mumbai	5308280	5357903	5377053	5396961	8591838	8599554	3400692	3341243	4160799	4192408	2777718	2808978
North East	3562787	3589700	833546	844239	1412149	1417049			469012	467104	2969360	3074823
Orissa	9295656	9370857	4462298	4498343	3613188	3644965	2292735	2233498	1403371	1446861	4376787	4360127
Punjab	7754008	7865768	2208425	1696515	4969547	5022784	2592631	2563212	6349379	6352897	1014605	1031338
Rajasthan	18109749	18601295	6391909	6403912	11342176	11444277	1573198	1529232	7462231	7539958	6311196	6382283
Tamil Nadu (incl. Chennai)	16336128	16453367	6190879	6394049	14913898	15015597	5556252	5357597	5681943	5701310	21155024	21182062
U.P.(E)	19099910	19317163	8426556	8620816	17587856	17657668	4301926	4199595	10000445	9956550	6690894	6721408
U.P.(W)	7534309	7850260	5270594	5425162	10795004	10864195	3580417	3481024	13376829	13434634	472183	496104
West Bengal	13030163	13262315	7564074	7369617	15690568	15936766	562880	529549	4757709	4841799	5148139	5163490
Total	235211882	237978949	110385803	111418843	188170036	189476816	62022756	60849605	166564640	167288744	83995783	84608669
Net Addition		2767067		1033040		1306780		-1173151		724104		612886

Wireless Subscriber Base

Annexure-I
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Circle	Group														Net Addition
	BSNL		MTNL		Telenor		Sistema		Videocon		Quadrant		Total		
	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	
Andhra Pradesh	9534972	9530615			5796706	5832009							73263469	73966630	703161
Assam	1248183	1269848											18009178	18150873	141695
Bihar	2727938	2746582			7568660	7780365			24132	21699			73602033	74220258	618225
Delhi			2345195	2343883			998046	975630					47344475	47255638	-88837
Gujarat	3199193	3236274			7082298	7508248	217126	214362	2438014	2376257			58830581	59568286	737705
Haryana	2925099	2950674							2089984	2120681			22237481	22367373	129892
Himachal Pradesh	1464673	1486439											8391380	8493042	101662
J & K	1232634	1242125											9767911	9794739	26828
Karnataka	6875236	6930365					1352544	1327732					60228755	60633986	405231
Kerala	6977758	7058384					389847	386570					32857837	32984215	126378
Kolkata	760548	763857					591583	580578					23561720	23755665	193945
Madhya Pradesh	3776971	3877714							3294857	3280055			62736783	63183099	446316
Maharashtra	5140969	5135013			7727851	7805767							79189411	79719367	529956
Mumbai			1253623	1261216									30870003	30958263	88260
North East	1416266	1423647											10663120	10816562	153442
Orissa	3670204	3731205											29114239	29285856	171617
Punjab	3243036	3280959									2966558	3005275	31098189	30818748	-279441
Rajasthan	3426541	3465184					2195342	2199689					56812342	57565830	753488
Tamil Nadu (incl. Chennai)	8693501	8700670					809074	808877					79336699	79613529	276830
U.P.(E)	7857338	7988746			11322378	11462172			23806	21665			85311109	85945783	634674
U.P.(W)	3674555	3754507			8286834	8328785	175549	167063	29967	29399			53196241	53831133	634892
West Bengal	1852287	1852492					1631105	1602889					50236925	50558917	321992
Total	79697902	80425300	3598818	3605099	47784727	48717346	8360216	8263390	7900760	7849756	2966558	3005275	996659881	1003487792	6827911
Net Addition		727398		6281		932619		-96826		-51004		38717		6827911	

Proportion of VLR on the date of Peak VLR in the month of Oct-15 (%)

Annexure-II

Circle	Aircel	Bharti	BSNL	Quadrant	Idea	MTNL	Reliance	Sistema	Tata	Telewings	Videocon	Vodafone	Total
Andhra Pradesh	57.71	99.94	64.51		103.59		98.23		84.94	71.04		86.14	89.72
Assam	84.81	94.42	82.07		97.18		79.92					93.86	89.15
Bihar	74.87	95.89	74.96		100.05		98.98		65.17	72.41	11.56	95.14	90.81
Delhi	63.81	90.04			97.16	52.10	98.52	51.02	53.50			103.30	87.19
Gujarat	2498.82	95.81	80.29		105.08		99.04	41.94	73.89	71.12	45.63	95.25	91.26
Haryana	8.60	99.36	58.31		101.81		95.63		88.68		53.93	98.02	88.19
Himachal Pradesh	55.48	93.41	79.17		107.90		92.68		37.98			93.57	86.95
J & K	89.45	90.02	77.15		97.26		60.37					71.19	83.83
Karnataka	65.70	94.24	58.69		103.46		97.29	68.32	87.61			87.96	88.27
Kerala	99.45	96.74	83.91		106.40		91.68	63.63	87.22			91.87	94.72
Kolkata	75.06	97.37	90.70		86.90		98.99	92.15	82.07			98.77	91.19
Madhya Pradesh	0.11	94.78	78.38		108.35		98.46		80.35		43.84	77.45	93.28
Maharashtra	56.52	95.61	85.28		104.31		97.75		77.62	66.70		98.12	92.68
Mumbai	61.28	96.64			93.39	70.84	98.93		78.07			86.64	87.56
North East	72.33	96.76	71.40		93.07		65.94					85.88	82.49
Orissa	60.30	97.28	80.76		103.27		98.49		74.64			93.45	87.95
Punjab	62.05	98.39	74.63	55.99	106.09		98.94		73.89			102.36	90.74
Rajasthan	60.97	101.86	78.76		102.51		98.95	57.77	106.12			90.97	91.96
Tamil Nadu (incl. Chennai)	71.40	97.26	60.70		89.08		95.34	55.50	70.43			96.37	83.25
U.P. (E)	71.81	96.90	60.64		108.09		98.49		70.70	76.61	10.16	97.72	89.18
U.P. (W)	129.70	102.72	65.93		101.78		98.84	50.39	75.35	74.34	11.37	94.08	91.66
West Bengal	72.13	97.47	81.20		105.40		98.77	63.11	46.69			96.79	93.40
Total	70.51	96.85	71.02	55.99	103.23	58.66	97.17	61.61	77.90	72.45	46.80	94.36	89.91

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	Net Add.%
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant		Sistema		Vodafone					
	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15	Sep-15	Oct-15				
Andhra Pradesh	1442984	1429635			134392	137174	75949	75980	163048	162720					9,330	9,390	1825703	1814899	-10804	10.74%
Assam	161296	161228													1,530	1,560	162826	162788	-38	0.04%
Bihar	328111	328941					6,352	6,551	13,206	13,203					1050	1050	348719	349745	1026	-1.02%
Delhi			1612687	1611580	1208435	1211652	175538	175516	135700	136170					21,960	22,140	3154320	3157058	2738	-2.72%
Gujarat	1239920	1223213			66292	67457	79322	77705	86666	85861					2,910	3,000	1475110	1457236	-17874	17.77%
Haryana	321,807	318,735			17879	18232	4594	4614	38667	38461					60	30	383007	380072	-2935	2.92%
Himachal Pradesh	175,191	173,326					4454	4424	2798	2737					90	90	182533	180577	-1956	1.94%
J & K	133,680	132,821															133680	132821	-859	0.85%
Karnataka	1364697	1358331			575106	581495	137361	139205	199281	198445					8,370	8,520	2284815	2285996	1181	-1.17%
Kerala	2390043	2370733			53616	54287	34045	34049	17400	17385					930	990	2496034	2477444	-18590	18.48%
Kolkata	706070	702330			113456	114271	73246	72069	49968	49130					3840	3840	946580	941640	-4940	4.91%
Madhya Pradesh	772643	764066			243183	246845	21767	21393	21163	21392					300	300	1059056	1053996	-5060	5.03%
Maharashtra	1609562	1586017			71891	72304	82117	82063	282552	281634					10,770	10,770	2056892	2032788	-24104	23.96%
Mumbai			1917185	1913528	343759	344299	242610	244131	533752	531173					16,530	16,650	3053836	3049781	-4055	4.03%
North East	127,333	127,331													150	150	127483	127481	-2	0.00%
Orissa	305515	305916					3261	3261	8110	8009					840	840	317726	318026	300	-0.30%
Punjab	711848	703970			97285	99217	20741	20793	17247	16966	232920	233601			630	690	1080671	1075237	-5434	5.40%
Rajasthan	661165	657623			43193	43969	22123	21639	10334	10484			59167	58424	1,950	1,980	797932	794119	-3813	3.79%
Tamil Nadu (incl. Chennai)	2008385	1999842			476293	481268	134356	134370	99912	101156					7740	7920	2726686	2724556	-2130	2.12%
U.P.(E)	387285	390402			58185	58859	37177	36684	15190	15189					1,110	1,140	498947	502274	3327	-3.31%
U.P.(W)	407279	402854			20480	20696	6342	6612	10105	10019					450	450	444656	440631	-4025	4.00%
West Bengal	390776	388248					1839	1871	3984	3923					30	30	396629	394072	-2557	2.54%
Total	15645590	15525562	3529872	3525108	3523445	3552025	1163194	1162930	1709083	1704057	232920	233601	59167	58424	90570	91530	25953841	25853237	-100604	100%
Net Addition		-120028		-4764		28580		-264		-5026		681		-743		960		-100604		

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.