Information Note to the Press



## TELECOM REGULATORY AUTHORITY OF INDIA



New Delhi, 27<sup>th</sup> January, 2016 (www.trai.gov.in)

## Highlights of Telecom Subscription Data as on 30th November, 2015

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1,009.46	25.72	1,035.18
Net Addition in October, 2015 (Million)	5.97	-0.13	5.84
Monthly Growth Rate	0.59%	-0.50%	0.57%
Urban Telephone Subscribers (Million)	577.84	21.08	598.92
Net Addition in October, 2015 (Million)	-0.26	-0.06	-0.33
Monthly Growth Rate	-0.05%	-0.30%	-0.05%
Rural Telephone Subscribers (Million)	431.61	4.64	436.26
Net Addition in October, 2015 (Million)	6.23	-0.07	6.17
Monthly Growth Rate	1.47%	-1.39%	1.43%
Overall Tele-density*	79.78	2.03	81.82
Urban Tele-density*	146.89	5.36	152.25
Rural Tele-density*	49.51	0.53	50.04
Share of Urban Subscribers	57.24%	81.94%	57.86%
Share of Rural Subscribers	42.76%	18.06%	42.14%
Broadband Subscribers (Million)	115.11	16.38	131.49

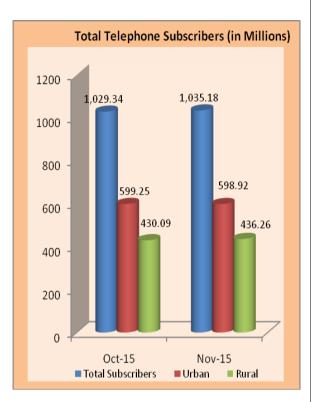
- ❖ In the month of November, 2015, 5.19 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 181.50 million at the end of October, 2015 to 186.69 million at the end of November, 2015.
- ❖ Number of active wireless subscribers (on the date of peak VLR<sup>#</sup>) in November, 2015 was 907.07 million.

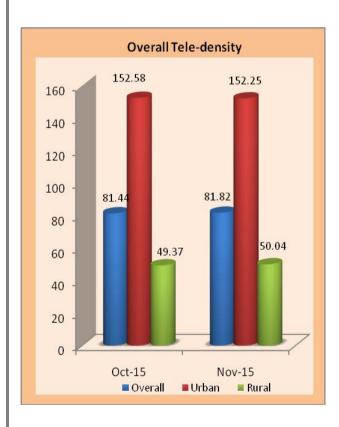
#### Note:

- 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

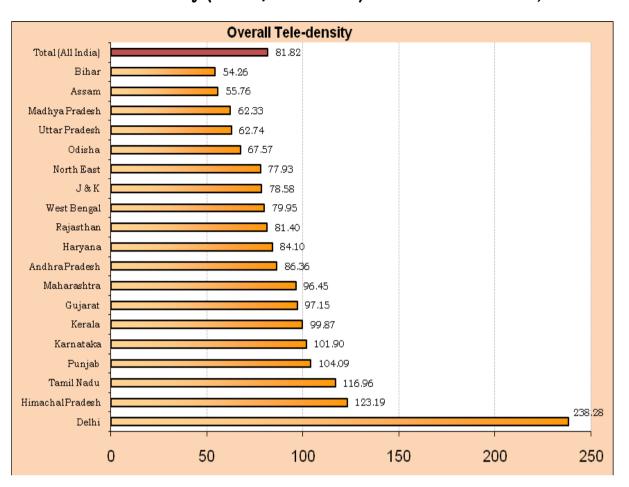
The number of telephone subscribers in India increased from 1,029.34 million at the end of Oct-15 to 1,035.18 million at the end of Nov-15, thereby showing a monthly growth rate of 0.57%. The urban subscription declined from 599.25 million at the end of Oct-15 to 598.92 million at the end of Nov-15 whereas the rural subscription increased from 430.09 million to 436.26 million during the same period. The monthly growth rates of urban and rural subscription -0.05% and 1.43% respectively were during the month of Nov-15.





The overall Tele-density in India increased from 81.44 at the end of Oct-15 to 81.82 at the end of Nov-15. The Urban Tele-density slightly declined from 152.58 at the end of Oct-15 to 152.25 at the end of Nov-15. The Rural Tele-density increased from 49.37 at the end of Oct-15 to 50.04 at the end of Nov-15. The share of urban subscribers and rural subscribers at the end of Nov-57.86% was and 42.14% respectively.

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

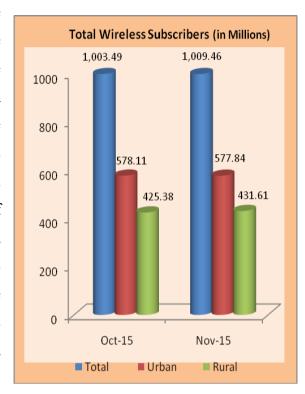


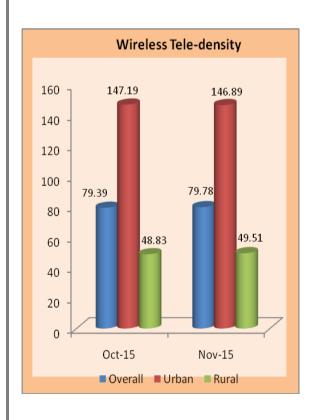
#### Notes:

- 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 1,003.49 million at the end of Oct-15 to 1,009.46 million at the end of Nov-15, thereby registering a monthly growth rate of 0.59%. The Wireless subscription in urban areas declined from 578.11 million at the end of Oct-15 to 577.84 million at the end of Nov-15, whereas wireless subscription in rural areas increased from 425.38 million to 431.61 million during the same period. The monthly growth rates of urban and rural wireless subscription were -0.05% and 1.47% respectively.

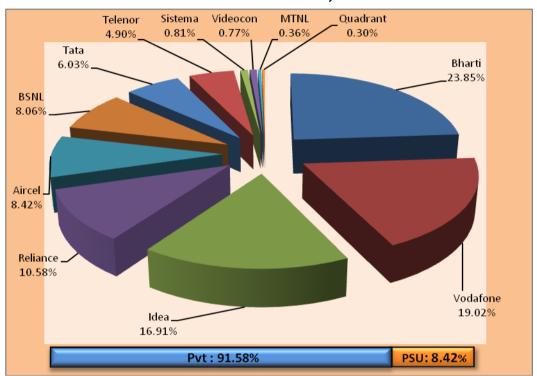




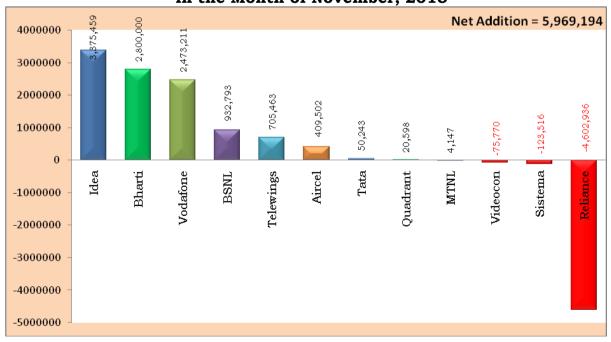
The Wireless Tele-density in India increased from 79.39 at the end of Oct-15 to 79.78 at the end of Nov-15. The Urban Wireless Tele-density declined from 147.19 to 146.89, whereas Rural Wireless Tele-density increased from 48.83 in Oct-15 to 49.51 in the month of Nov-15. The share of urban and rural wireless subscribers was 57.24% and 42.76% respectively at the end of Nov-Detailed statistics of wireless subscriber base is available at Annexure-I.

• As on 30<sup>th</sup> November, 2015, the private access service providers held 91.58% market share of the wireless subscribers whereas BSNL and MTNL, the two PSUs access service providers, had only 8.42% 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 30<sup>th</sup> November, 2015



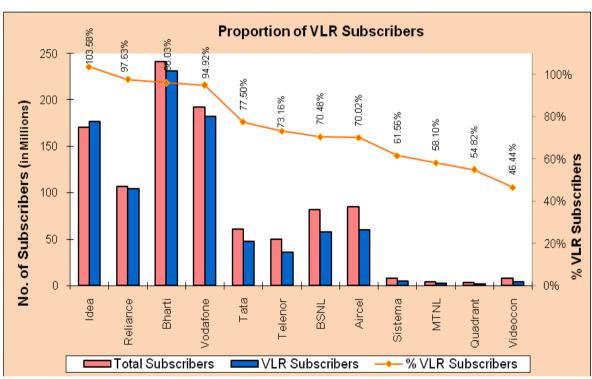
Net Additions in Wireless Subscriber Bases of Access Service Providers in the Month of November, 2015



## III. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscriber base (1,009.46 million), 907.07 million wireless subscribers were active on the date of peak VLR in the month of Nov-15. The proportion of active wireless subscribers was approximately 89.86% 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 Nov-15 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

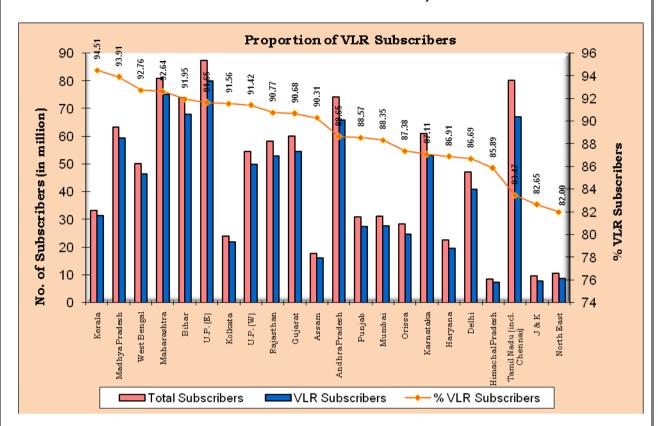
# Access Service Provider-wise Proportion of VLR Subscribers in the Month of November, 2015



#### 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 November, 2015



## IV. Growth in Wireless Subscribers

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







 Maharashtra service area recorded the highest growth rate in wireless subscribers during the month of Nov-15. Orissa service area showed maximum 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 Nov-15, a total of 5.19 million subscribers submitted their requests for MNP. With this, the cumulative MNP requests increased from 181.50 million at the end of Oct-15 to 186.69 million at the end of Nov-15.
- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Rajasthan (about 16.98 million) followed by Gujarat (about 14.38 million). In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 21.59 million) followed by Andhra Pradesh (about 18.07 million).

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

Service Area Wise MNP Status at the end of November, 2015								
Zone -1	L	Zone – 2						
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests					
Delhi	7434595	Andhra Pradesh	18072583					
Gujarat	14377166	Assam	676169					
Haryana	6748232	Bihar	5389192					
Himachal Pradesh	634756	Karnataka	21593758					
Jammu & Kashmir	47587	Kerala	6079286					
Maharashtra	13785557	Kolkata	4313261					
Mumbai	10283991	Madhya Pradesh	12002355					
Punjab	6574149	North East	367778					
Rajasthan	16984848	Orissa	3662531					
Uttar Pradesh - East	8850354	Tamil Nadu	11742222					
Uttar Pradesh - West	8815136	West Bengal	8256214					
Total	94,536,371	Total	92,155,349					
Total (Zone-1 + Zone-2)			186,691,720					
Net Addition (in November, 2015)			5,191,178					

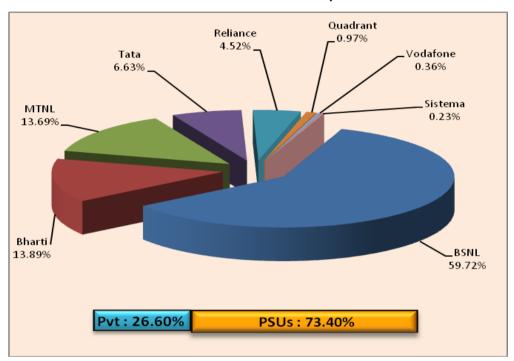
Note: For Zone-2, available MNP data for November, 2015 are provisional.

## VI. Wireline Subscribers

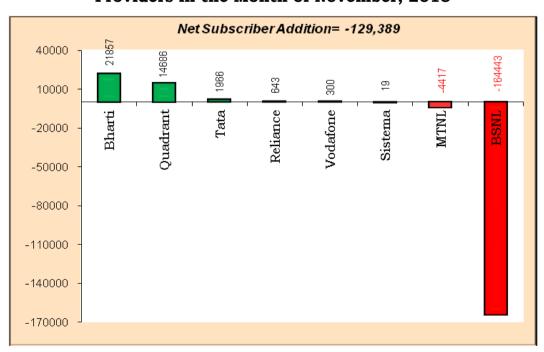
- Wireline subscriber base declined from 25.85 million at the end of Oct-15 to 25.72 million at the end of Nov-15. Net reduction in the wireline subscriber base was 0.13 million at the monthly decline rate of 0.50%. The share of urban and rural subscribers in total wireline subscribers were 81.94% and 18.06% respectively at the end of Nov-15.
- The Overall Wireline Tele-density slightly declined from 2.05 in Oct-15 to 2.03 in Nov-15. Urban Wireline Tele-density and Rural Wireline Tele-density being 5.36 and 0.53 respectively. BSNL and MTNL, the two PSU access service providers, held 73.40% 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 Nov-15 are given below:

Access Service Provider-wise Market Shares in the Wireline Subscribers as on 30<sup>th</sup> November, 2015



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



# VII. Category-wise Growth

### Circle Category-wise Net Additions in Telephone Subscribers

Circle		in the month of per, 2015	Telephone Subscriber base a on 30 <sup>th</sup> November, 2015						
Category	Wireline segment	Wireless segment	Wireline segment	Wireless segment					
Circle A	-63440	3433380	10252035	356935178					
Circle B	-35019	3559321	7082826	400814419					
Circle C	-12567	-1613799	1258871	149147531					
Metro	-18363	590292	7130116	102559858					
All India	-129,389	5,969,194	25,723,848	1,009,456,986					

### Circle Category-wise Growth Rates in Telephone Subscribers

Circle	Monthly gro (Oct-15 t	wth rate (%) to Nov-15)	Yearly growth rate (%) (Nov-14 to Nov-15)					
Category	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment				
Circle A	-0.61	0.97	-4.66	6.34				
Circle B	-0.49	0.90	-9.09	8.33				
Circle C	-0.99	-1.07	-10.75	11.34				
Metro	-0.26	0.58	-0.83	5.26				
All India	-0.50	0.59	-5.24	7.73				

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

## VIII. Broadband (≥ 512 Kbps download)

 As per the reports received from the service providers, the number of broadband subscribers increased from 125.22 Million at the end of Oct-15 to 131.49 million at the end of Nov-15 with monthly growth rate of 5.01%. Segment-wise broadband subscribers and their monthly growth rates are as below:

Segment-wise Broadband Subscribers and Monthly Growth Rates

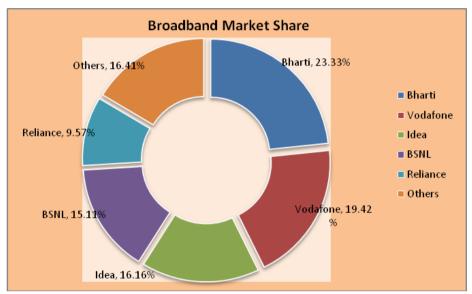
	Broadband (in mi	Monthly			
Segment	As on 31st October, 2015	As on 30 <sup>th</sup> November, 2015	growth rate (%)		
Wired subscribers	16.27	16.38	0.67		
Mobile devices users (Phones and dongles)	108.48	114.63	5.67		
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to- Point Radio & VSAT)	0.47	0.48	1.47		
Total	125.22	131.49	5.01		

• Top five service providers constituted 83.59% market share of total broadband subscribers at the end of Nov-15. These service providers were Bharti Airtel (30.68 million), Vodafone (25.53 million), Idea Cellular (21.25 million), BSNL (19.87 million) and Reliance Communications Group (12.59 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 30.11.2015



- As on 30<sup>th</sup> November, 2015, the top five <u>Wired</u> Broadband Service providers were BSNL (9.93 million), Bharti Airtel (1.64 million), MTNL (1.13 million), Atria Convergence Technologies (0.84 million) and YOU Broadband (0.50 million).
- As on 30<sup>th</sup> November, 2015, the top five <u>Wireless</u> Broadband Service providers were Bharti Airtel (29.04 million), Vodafone (25.52 million), Idea Cellular (21.23 million), Reliance Communications Group (12.47 million) and BSNL (9.94 million).

Contact details in case of any clarification:

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Authorized to issue:

(Vinod Kotwal) Advisor (F&EA)

### **Wireless Subscriber Base**

Annexure-I Page 1 of 2

						Grou	ıp					
21.	Bh	arti	Relia	ance	Voda	afone	Та	ta	ld	ea	Air	cel
Circle	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15
Andhra Pradesh	22956385	23149685	5557696	5237082	7023059	7129102	5296990	5295933	14972232	15339140	2797644	2799910
Assam	5457081	5461502	2436121	2001270	3293579	3361391			965888	996478	4728356	4784443
Bihar	26452567	26705294	9415260	8007129	9128665	9305638	1825875	1855948	10045275	10629622	6803970	6824955
Delhi	11174880	11176180	8228641	8075433	9817066	9947677	2621507	2445849	6159725	6224531	5934306	6028960
Gujarat	7953959	8023153	5027938	5060225	18862803	19079794	2717725	2678250	11653657	11819787	17063	17063
Haryana	2729315	2844931	2062481	2032884	5207159	5298088	2680975	2679733	4612996	4656893	3092	3092
Himachal Pradesh	2727253	2722169	1694196	1703220	682592	694399	75602	74861	780922	788681	1046038	1051819
J & K	3373915	3352447	824410	830323	1221018	1038625			588492	593363	2544779	2547440
Karnataka	20634634	20844180	5486923	5535821	7536533	7644412	7083929	7128288	8693589	8669480	2940281	2993215
Kerala	4193378	4238983	2078058	2101320	7454078	7465045	1528090	1521402	10132387	10191937	153270	176337
Kolkata	4321028	4347411	4194288	4346493	5129993	5188999	2783709	2775631	1978838	2049695	4003374	4026036
Madhya Pradesh	12031821	12101424	12648269	12116316	6577820	6731499	4653690	4712672	20093036	20443130	20694	20694
Maharashtra	12304105	12594430	5114948	5183011	17939596	18177839	6346563	6366553	22678186	23121530	2395189	2441207
Mumbai	5357903	5564650	5396961	5472193	8599554	8609094	3341243	3348923	4192408	4221627	2808978	2801757
North East	3589700	3653273	844239	609033	1417049	1463784			467104	470129	3074823	3080441
Orissa	9370857	9487785	4498343	3112669	3644965	3751204	2233498	2258126	1446861	1504639	4360127	4419363
Punjab	7865768	7934181	1696515	1638636	5022784	5076497	2563212	2575213	6352897	6389209	1031338	1035919
Rajasthan	18601295	18874200	6403912	6557774	11444277	11620969	1529232	1544355	7539958	7688959	6382283	6433143
Tamil Nadu (incl. Chennai)	16453367	16639180	6394049	6575002	15015597	15187412	5357597	5308792	5701310	5832232	21182062	21228578
U.P.(E)	19317163	19711807	8620816	8713655	17657668	17956485	4199595	4237204	9956550	10316455	6721408	6645351
U.P.(W)	7850260	7858170	5425162	5502584	10864195	11023862	3481024	3583373	13434634	13765481	496104	518934
West Bengal	13262315	13493914	7369617	6403834	15936766	16198212	529549	508742	4841799	4951205	5163490	5139514
Total	237978949	240778949	111418843	106815907	189476816	191950027	60849605	60899848	167288744	170664203	84608669	85018171
Net Addition		2800000		-4602936		2473211		50243		3375459		409502

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Circle	BS	NL	M	ΓNL	Tele	enor	Sist	ema	Vide	ocon	Qua	drant	To	tal	
Circle	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Net Addition
Andhra Pradesh	9530615	9537430			5832009	5874126							73966630	74362408	395778
Assam	1269848	1273904											18150873	17878988	-27188
Bihar	2746582	2768970			7780365	7956379			21699	21620			74220258	74075555	-144703
Delhi		0	2343883	2341622			975630	958474					47255638	47198726	-56912
Gujarat	3236274	3283296			7508248	7737624	214362	212264	2376257	2227692			59568286	60139148	570862
Haryana	2950674	2986216							2120681	2143755			22367373	22645592	278219
Himachal Pradesh	1486439	1508653											8493042	8543802	50760
J&K	1242125	1239502											9794739	9601700	-193039
Karnataka	6930365	7013832					1327732	1296600					60633986	61125828	491842
Kerala	7058384	7125626					386570	381700					32984215	33202350	21813
Kolkata	763857	766316					580578	574683					23755665	24075264	319599
Madhya Pradesh	3877714	3934484							3280055	3332763			63183099	63392982	209883
Maharashtra	5135013	5301830			7805767	7841472							79719367	81027872	130850
Mumbai		0	1261216	1267624									30958263	31285868	32760
North East	1423647	1436550											10816562	10713210	-103352
Orissa	3731205	3800490											29285856	28334276	-951580
Punjab	3280959	3315166									3005275	3025873	30818748	30990694	171946
Rajasthan	3465184	3502395					2199689	2166493					57565830	58388288	822458
Tamil Nadu (incl. Chennai)	8700670	8705566					808877	803160					79613529	80279922	666393
U.P.(E)	7988746	8116015			11462172	11612557			21665	19801			85945783	87329330	1383547
U.P.(W)	3754507	3829720			8328785	8400651	167063	161678	29399	28355			53831133	54672808	84167
West Bengal	1852492	1912132					1602889	1584822					50558917	50192375	-366542
Total	80425300	81358093	3605099	3609246	48717346	49422809	8263390	8139874	7849756	7773986	3005275	3025873	1003487792	1009456986	5969194
Net Addition		932793		4147		705463		-123516		-75770		20598		5969194	

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

#### Annexure-II

Circle	Aircel	Bharti	BSNL	Quadrant	Idea	MTNL	Reliance	Sistema	Tata	Telenor	Videocon	Vodafone	Total
Andhra Pradesh	57.35	97.31	64.73		103.09		98.39		84.18	70.62		84.74	88.65
Assam	85.43	93.22	82.03		97.57		90.71					93.28	90.31
Bihar	73.51	98.07	74.20		101.76		99.02		63.43	72.11	7.02	98.80	91.95
Delhi	62.58	88.14			97.33	51.76	98.61	52.01	54.92			102.73	86.69
Gujarat	2462.86	93.21	79.02		103.65		98.91	41.70	84.66	68.95	46.12	94.69	90.68
Haryana	7.41	96.33	55.83		101.82		96.25		83.21		53.26	98.20	86.91
Himachal Pradesh	53.02	92.68	77.83		105.92		94.15		36.55			88.86	85.89
J & K	87.58	84.15	75.59		96.46		61.42					83.27	82.65
Karnataka	58.69	94.49	58.63		104.28		96.94	40.19	85.76			86.88	87.11
Kerala	89.76	94.12	84.10		106.51		92.57	63.01	86.27			92.25	94.51
Kolkata	71.11	96.91	88.93		84.52		98.62	153.00	80.91			99.12	91.56
Madhya Pradesh	1.22	95.88	77.52		109.27		98.70		81.35		43.01	78.91	93.91
Maharashtra	55.62	95.21	82.66		103.48		97.61		77.03	72.28		97.81	92.64
Mumbai	68.06	98.21			93.39	69.82	98.79		77.20			86.54	88.35
North East	66.59	96.87	69.20		95.30		87.75					83.25	82.00
Orissa	59.65	97.83	79.80		105.16		98.23		75.16			92.51	87.38
Punjab	60.65	97.05	74.34	54.82	106.32		98.56		73.81			92.31	88.57
Rajasthan	60.06	97.24	75.10		103.59		98.73	58.44	104.63			93.20	90.77
<b>Tamil Nadu</b> (incl. Chennai)	72.36	97.11	61.00		87.96	_	95.33	55.02	68.79	_		96.71	83.47
U.P. (E)	74.88	99.84	61.70		110.68		98.72		71.01	77.89	11.23	101.88	91.65
U.P. (W)	124.96	92.62	66.81		103.78		99.01	50.95	72.02	74.07	14.30	98.62	91.42
West Bengal	70.55	96.69	77.39		106.14		98.74	62.63	48.29			96.23	92.76
Total	70.02	96.03	70.48	54.82	103.58	58.10	97.63	61.56	77.50	73.16	46.44	94.92	89.86

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

	Group																		
Circle	BS	SNL	M7	rnl	Bh	arti	Reli	ance	Ta	ata	Qua	drant	Sist	tema	Voda	afone	То	tal	
	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Oct-15	Nov-15	Net Addition
Andhra Pradesh	1429635	1409062			137174	139834	75980	75959	162720	163078					9,390	9,300	1814899	1797233	-17666
Assam	161228	161345	,												1,560	1,620	162788	162965	177
Bihar	328941	328104					6,551	6,711	13,203	13,209					1050	1020	349745	349044	-701
Delhi			1611580	1611554	1211652	1212095	175516	175209	136170	136253					22,140	21,900	3157058	3157011	-47
Gujarat	1223213	1209967			67457	67939	77705	76155	85861	86102					3,000	3,090	1457236	1443253	-13983
Haryana	318,735	316,147			18232	18550	4614	4635	38461	38590					30	30	380072	377952	-2120
Himachal Pradesh	173,326	171,609					4424	4343	2737	2736					90	90	180577	178778	-1799
J & K	132,821	131,954															132821	131954	-867
Karnataka	1358331	1350401			581495	586725	139205	141612	198445	199599					8,520	8,730	2285996	2287067	1071
Kerala	2370733	2350063	,		54287	55093	34049	34055	17385	17503					990	1020	2477444	2457734	-19710
Kolkata	702330	683961			114271	114715	72069	70938	49130	48418					3840	3870	941640	921902	-19738
Madhya Pradesh	764066	753979			246845	249340	21393	20990	21392	21470					300	300	1053996	1046079	-7917
Maharashtra	1586017	1562601			72304	72523	82063	82235	281634	280681					10,770	10,770	2032788	2008810	-23978
Mumbai			1913528	1909137	344299	346747	244131	246003	531173	532366					16,650	16,950	3049781	3051203	1422
North East	127,331	125,724													150	150	127481	125874	-1607
Orissa	305916	297958	,				3261	3289	8009	8079					840	930	318026	310256	-7770
Punjab	703970	692472			99217	100855	20793	20879	16966	16948	233601	248287			690	690	1075237	1080131	4894
Rajasthan	657623	654291			43969	44575	21639	21160	10484	10601			58424	58443	1,980	1,890	794119	790960	-3159
Tamil Nadu (incl. Chennai)	1999842	1987284			481268	484750	134370	134372	101156	101406					7920	7860	2724556	2715672	-8884
U.P.(E)	390402	390347			58859	59303	36684	36158	15189	15198					1,140	1,140	502274	502146	-128
U.P.(W)	402854	399731			20696	20838	6612	6969	10019	10018					450	450	440631	438006	-2625
West Bengal	388248	384119					1871	1901	3923	3768					30	30	394072	389818	-4254
Total	15525562	15361119	3525108	3520691	3552025	3573882	1162930	1163573	1704057	1706023	233601	248287	58424	58443	91530	91830	25853237	25723848	-129389
Net Addition		-164443		-4417		21857		643		1966		14686		19		300		-129389	

## 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.