Information Note to the Press



TELECOM REGULATORY AUTHORITY OF INDIA



New Delhi, 9th December, 2016 (www.trai.gov.in)

Highlights of Telecom Subscription Data as on 30th September, 2016

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1049.74	24.49	1074.24
Net Addition in September, 2016 (Million)	20.86	-0.02	20.84
Monthly Growth Rate	2.03%	-0.07%	1.98%
Urban Telephone Subscribers (Million)	603.80	20.57	624.38
Net Addition in September, 2016 (Million)	17.91	0.01	17.92
Monthly Growth Rate	3.06%	0.03%	2.95%
Rural Telephone Subscribers (Million)	445.94	3.92	449.86
Net Addition in September, 2016 (Million)	2.95	-0.02	2.92
Monthly Growth Rate	0.67%	-0.56%	0.65%
Overall Tele-density*	82.17	1.92	84.09
Urban Tele-density*	151.10	5.15	156.24
Rural Tele-density*	50.80	0.45	51.24
Share of Urban Subscribers	57.52%	83.99%	58.12%
Share of Rural Subscribers	42.48%	16.01%	41.88%
Broadband Subscribers (Million)	174.47	17.84	192.30

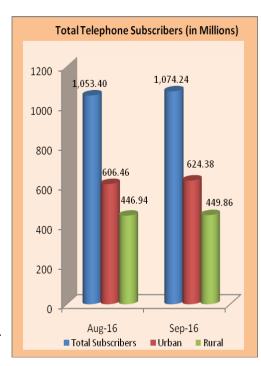
- ❖ In the month of September, 2016, 5.00 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 234.47 million at the end of Aug-16 to 239.46 million at the end of Sep-16, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR[#]) in September, 2016 was 949.17 million.

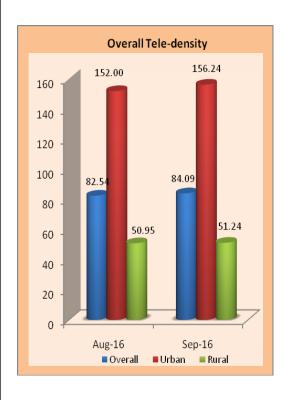
Note:

- 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

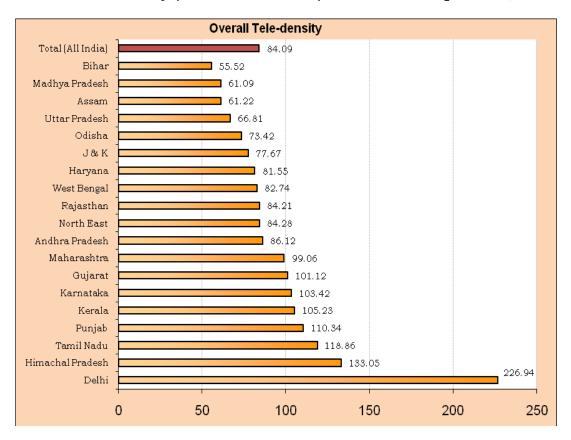
• The number of telephone subscribers in India increased from 1,053.40 million at the end of Aug-16 to 1,074.24 million at the end of Sep-16, thereby showing a monthly growth rate of 1.98%. The urban subscription increased from 606.46 million at the end of Aug-16 to 624.38 million at the end of Sep-16 and the rural subscription also increased from 446.94 million to 449.86 million during the same period. The monthly growth rates of urban and rural subscription were 2.95% and 0.65% respectively during the month of Sep-16.





The overall Tele-density in India increased from 82.54 at the end of Aug-16 to 84.09 at the end of Sep-16. The Tele-density increased Urban 152.00 at the end of Aug-16 to 156.24 at the end of Sep-16, and the Rural Tele-density also increased from 50.95 at the end of Aug-16 to 51.24 at the end Sep-16. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of Sep-16 was 58.12% and 41.88% respectively.





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 Chhatishgarh, 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 September, 2016

Circle		in the month of ber, 2016	Telephone Subscriber base a on 30 th September, 2016					
Category	Wireline segment	Wireless segment	Wireline segment	Wireless segment				
Circle A	-1,281	7,215,268	9,650,158	367,938,223				
Circle B	-15,877	8,967,101	6,583,049	420,233,000				
Circle C	2,361	2,922,155	1,179,495	158,045,276				
Metro	-1,518	1,753,316	7,081,899	103,525,628				
All India	-16,315	20,857,840	24,494,601	1,049,742,127				

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

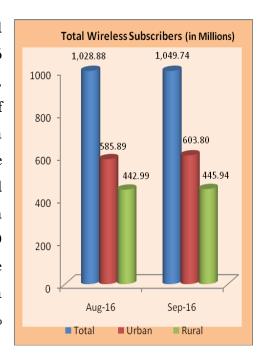
Circle	Monthly gro (Aug-16 t	wth rate (%) to Sep-16)	Yearly growth rate (%) (Sep-15 to Sep-16)					
Category	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment				
Circle A	-0.01	2.00	-6.93	4.87				
Circle B	-0.24	2.18	-8.02	6.53				
Circle C	0.20	1.88	-7.34	5.68				
Metro	-0.02	1.72	-1.02	1.72				
All India	-0.07	2.03	-5.62	5.33				

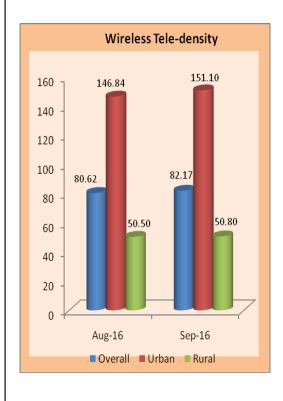
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

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

III. Wireless Subscribers

• Total wireless subscriber base increased from 1,028.88 million at the end of Aug-16 to 1,049.74 million at the end of Sep-16, thereby registering a monthly growth rate of 2.03%. The Wireless subscription in urban areas increased from 585.89 million at the end of Aug-16 to 603.80 million at the end of Sep-16, and wireless subscription in rural areas also increased from 442.99 million to 445.94 million during the same period. The monthly growth rates of urban and rural wireless subscription were 3.06% and 0.67% respectively.

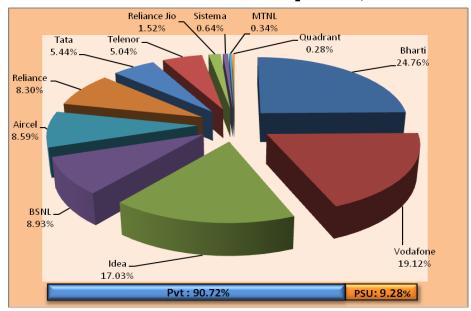




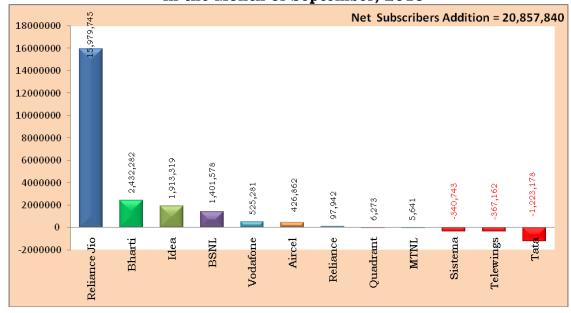
• The Wireless Tele-density in India increased from 80.62 at the end of Aug-16 to 82.17 at the end of Sep-16. The Urban Wireless Tele-density increased from 146.84 at the end of Aug-16 to 151.10 at the end of Sep-16, and Rural Wireless Tele-density also increased from 50.50 to 50.80 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 57.52% and 42.48% respectively at the end of Sep-16. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

• As on 30th September, 2016, the private access service providers held 90.72% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.28%. 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 30th September, 2016



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

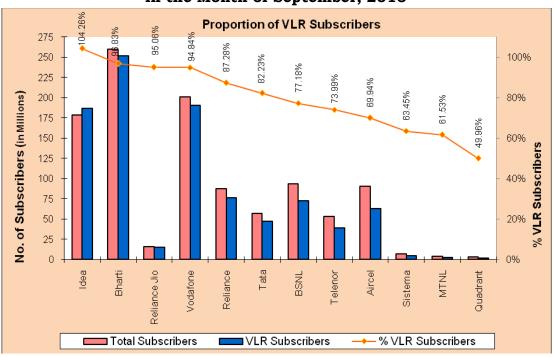


Note: M/s Reliance Jio Infocom Ltd. has commenced their wireless service in the month of September, 2016.

IV. Active Wireless Subscribers (VLR Data)

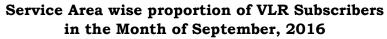
- Out of the total wireless subscriber base (1,049.74 million), 949.17 million wireless subscribers were active on the date of peak VLR in the month of Sep-16. The proportion of active wireless subscribers was approximately 90.42% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of Sep-16 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

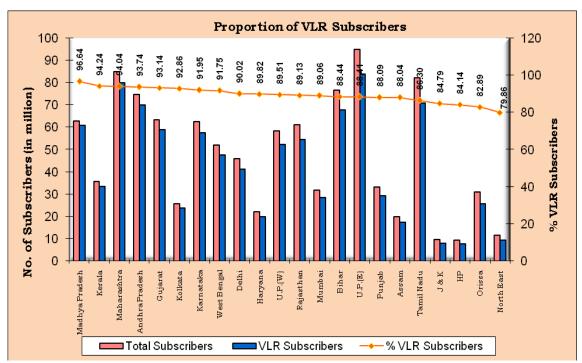
Access Service Provider-wise Proportion of VLR Subscribers in the Month of September, 2016



Note-

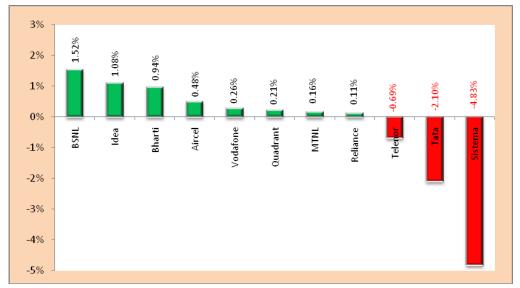
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

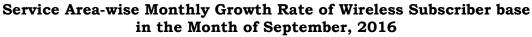


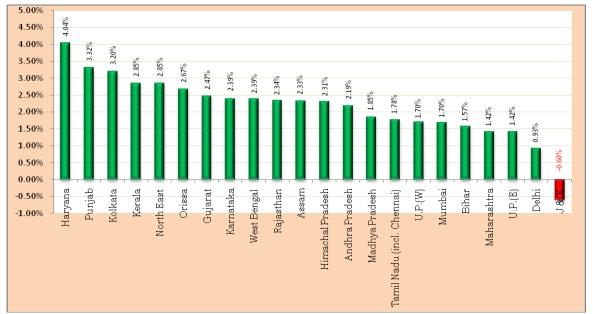


V. Growth in Wireless Subscribers

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







• Haryana service area recorded the highest growth rate in wireless subscribers during the month of Sep-16. J&K service area showed decline 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 Sep-16, a total of 5.00 million requests were received for MNP. With this, the cumulative MNP requests increased from 234.47 million at the end of Aug-16 to 239.46 million at the end of Sep-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 20.13 million) followed by Gujarat (about 17.77 million).

• In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 26.48 million) followed by Andhra Pradesh (about 22.15 million).

Service Area Wise	Service Area Wise MNP Status at the end of September, 2016										
Zone -I		Zone – II									
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests								
Delhi	9729995	Andhra Pradesh	22153216								
Gujarat	17766420	Assam	1189140								
Haryana	9329998	Bihar	9089795								
Himachal Pradesh	850446	Karnataka	26480962								
Jammu & Kashmir	93192	Kerala	7000970								
Maharashtra	16411481	Kolkata	5191970								
Mumbai	13250600	Madhya Pradesh	16736634								
Punjab	8524915	North East	474842								
Rajasthan	20128780	Orissa	4902126								
Uttar Pradesh - East	11557066	Tamil Nadu	15062817								
Uttar Pradesh - West	10787198	West Bengal	12750389								
Total	118,430,091	Total	121,032,861								
Total (Zone-I + Zone-II)	-		239,462,952								
Net Addition (in September, 2016)			4,996,441								

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

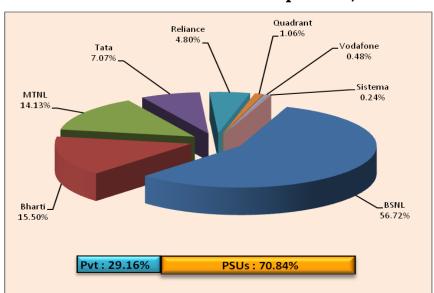
VII. Wireline Subscribers

- Wireline subscriber base declined from 24.51 million at the end of Aug16 to 24.49 million at the end of Sep-16. Net decline in the wireline subscriber base was 0.02 million with a monthly decline rate of 0.07%.

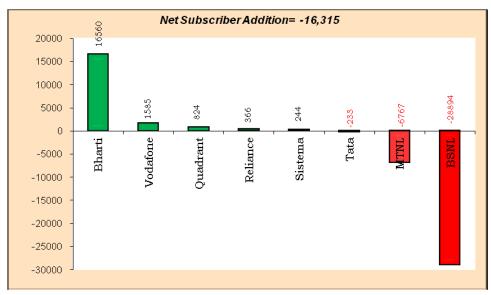
 The share of urban and rural subscribers in total wireline subscribers were 83.99% and 16.01% respectively at the end of Sep-16.
- The Overall Wireline Tele-density remained same i.e. 1.92 at the end of Sep-16 as compared to the end of Aug-16. Urban Wireline Tele-density and Rural Wireline Tele-density were 5.15 and 0.45 respectively during the same period.

- BSNL and MTNL, the two PSU access service providers, held 70.84% 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 Sep-16 are given below:

Access Service Provider-wise Market Shares in term of Wireline Subscriber base as on 30th September, 2016



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



VIII. Broadband (≥ 512 Kbps download)

As per the reports received from the service providers, the number of broadband subscribers increased from 171.71 Million at the end of Aug-16 to 192.30 million at the end of Sep-16 with a monthly growth rate of 11.99%. 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 September, 2016

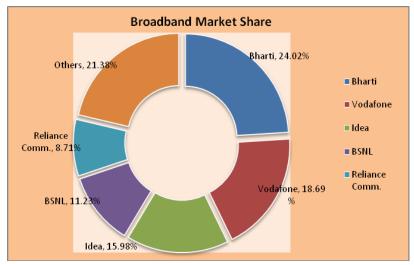
	Broadband s (in mi	Monthly growth	
Segment	As on 31 st August, 2016	As on 30 th September, 2016	rate in the month of Sep-16
Wired subscribers	17.67	17.84	0.94%
Mobile devices users (Phones and dongles)	153.45	173.87	13.31%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to- Point Radio & VSAT)	0.59	0.60	1.27%
Total	171.71	192.30	11.99%

• Top five service providers constituted 78.62% market share of the total broadband subscribers at the end of Sep-16. These service providers were Bharti Airtel (46.19 million), Vodafone (35.94 million), Idea Cellular (30.72 million), BSNL (21.60 million) and Reliance Communications Group (16.74 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 30.09.2016



- As on 30th September, 2016, the top five <u>Wired</u> Broadband Service providers were BSNL (9.88 million), Bharti Airtel (1.94 million), Atria Convergence Technologies (1.11 million), MTNL (1.07 million) and YOU Broadband (0.58 million).
- As on 30th September, 2016, the top five <u>Wireless</u> Broadband Service providers were Bharti Airtel (44.25 million), Vodafone (35.93 million), Idea Cellular (30.72 million), Reliance Communications (16.62 million) and Reliance Jio (16.00 million).

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Authorized to issue:

(Vinod Kotwal) Advisor (F&EA)

Wireless Subscriber Base

Annexure-I

						Group	p					
	Bh	arti	Relia	ance	Voda	fone	Та	ıta	lde	ea	Aircel	
Circle	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Aug-16 Sep-16		Aug-16 Sep-16		Sep-16
Andhra Pradesh	24171916	24494705	3843841	3958524	6927929	6912483	4525943	4360932	15930994	16117217	2503649	2515070
Assam	6146640	6204577	1387811	1388329	3811436	3855986			1135313	1174550	5526825	5567244
Bihar	29075396	29246581	3531794	3415983	9431191	9307676	1636626	1594301	11032400	11037306	7304133	7346370
Delhi	11363084	11432142	5848669	5539409	10332092	10423973	1984310	1813846	6189560	6260193	6588147	6616495
Gujarat	8681122	8711270	5938303	5998180	19537547	19591031	2908136	2869996	12142681	12216554	17063	17063
Haryana	3265001	3333550	1527196	1544821	5514537	5546922	2922113	2881912	4762702	4790900	3092	3092
Himachal Pradesh	2894284	2917431	1596607	1595450	742057	733571	63687	60505	816352	815076	1113105	1106934
J & K	3306275	3072866	936292	966307	837949	831343			439146	439938	2709894	2732907
Karnataka	21266007	21630732	5067382	5138066	7785945	7808376	7123707	7047464	8668824	8759326	3260541	3288019
Kerala	4422391	4530673	1422921	1451767	7654224	7693378	1540071	1516213	10689387	10811853	358715	365865
Kolkata	4769157	4825039	4146795	4237250	5551513	5575130	2766801	2732120	2162973	2213046	4217247	4242022
Madhya Pradesh	13203342	13374101	10211247	10110279	6925758	6906951	4991418	4848026	21804516	22040127	20694	20694
Maharashtra	13502087	13657217	4467254	4402118	18558350	18566063	6276945	6208842	23894242	24038879	2695324	2706361
Mumbai	5917396	6044841	5079263	4897371	8855350	8882520	3067715	3007508	4184682	4233013	2977940	2972202
North East	3962945	4015546	385384	385134	1593396	1619313			506612	525281	3323760	3438367
Orissa	10701977	10760636	2118123	2215616	4176201	4180247	2169506	2119177	1779034	1799105	4705125	4710912
Punjab	8115745	8217016	1638753	1645613	5171788	5178416	2695932	2686383	6441759	6465841	1130974	1145068
Rajasthan	19704646	19909190	5870773	5967544	11906722	11925936	1528743	1489737	7480112	7586197	6585457	6608299
Tamil Nadu (incl. Chennai)	17789278	18028189	5256274	5270631	15795369	15874774	4433414	4352874	6228669	6351281	21759680	21788965
U.P.(E)	21623930	21772412	8165067	8164195	19436583	19395061	3888500	3811096	10597971	10892972	7135469	7133542
U.P.(W)	8453255	8432337	5422833	5504703	11365101	11378616	3342936	3254999	14543297	14635159	761217	785317
West Bengal	15172510	15329615	3199461	3362695	18284928	18533481	410455	397849	5471793	5612524	5016066	5030171
Total	257508384	259940666	87062043	87159985	200195966	200721247	58276958	57053780	176903019	178816338	89714117	90140979
Net Addition		2432282		97942		525281		-1223178		1913319		426862

Wireless Subscriber Base

Annexure-I (contd.)

				Group											
	BS	NL	МТ	NL	Tele	enor	Sist	ema	Qua	drant	Relian	ice Jio	Total		
Circle	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Net Addition
Andhra Pradesh	9749119	9722463			5532255	5467802						1237466	73185646	74786662	1601016
Assam	1376500	1393454										252467	19384525	19836607	452082
Bihar	3668316	3771984			9699057	9855323						988639	75378913	76564163	1185250
Delhi			2322713	2324062			861745	808382				694861	45490320	45913363	423043
Gujarat	3981399	4096413			8447456	8226967	192160	183948				1462574	61845867	63373996	1528129
Haryana	3381109	3459760										678893	21375750	22239850	864100
Himachal Pradesh	1890439	1921532										176772	9116531	9327271	210740
J & K	1402315	1447703										82788	9631871	9573852	-58019
Karnataka	6948271	6941476					1021910	990214				999860	61142587	62603533	1460946
Kerala	8210583	8351858					313775	297058				578635	34612067	35597300	985233
Kolkata	801348	812107					499439	478321				598666	24915273	25713701	798428
Madhya Pradesh	4552116	4654999										893309	61709091	62848486	1139395
Maharashtra	6181652	6258548			8208641	8159140						977086	83784495	84974254	1189759
Mumbai			1284373	1288665								572444	31366719	31898564	531845
North East	1608799	1614598										106560	11380896	11704799	323903
Orissa	4580419	4676552										576339	30230385	31038584	808199
Punjab	4037262	4166782							2969126	2975399		790018	32201339	33270536	1069197
Rajasthan	4672878	4792815					1997157	1902826				961505	59746488	61144049	1397561
Tamil Nadu (incl. Chennai)	8832314	8844329					669362	622257				1066478	80764360	82199778	1435418
U.P.(E)	9924699	10119574			12713150	12624993						894394	93485369	94808239	1322870
U.P.(W)	4839974	4975721			8624402	8523574	135857	128297				850054	57488872	58468777	979905
West Bengal	1724264	1742686					1367446	1306805				539937	50646923	51855763	1208840
Total	92363776	93765354	3607086	3612727	53224961	52857799	7058851	6718108	2969126	2975399	0	15979745	1028884287	1049742127	20857840
Net Addition		1401578		5641	_	-367162		-340743		6273		15979745		20857840	

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

Annexure-II

Circle	Aircel	Bharti	BSNL	Quadrant	Idea	MTNL	Reliance	Reliance Jio	Sistema	Tata	Telenor	Vodafone	Total
Andhra Pradesh	64.36	98.37	89.04		103.92		97.40			91.23	78.28	84.54	93.74
Assam	85.84	96.12	87.23		99.47		3.94					105.03	88.04
Bihar	85.88	96.25	72.10		101.91		9.11			72.59	71.33	105.73	88.44
Delhi	64.61	95.61			103.70	56.09	97.54		48.48	61.23		101.80	90.02
Gujarat	3009.62	96.40	84.01		106.08		97.51		48.95	76.20	72.85	93.24	93.14
Haryana	0.45	95.79	56.67		103.92		98.79			82.61		94.90	89.82
Himachal Pradesh	52.38	88.07	70.35		112.30		98.74			35.84		90.31	84.14
J & K	76.37	97.54	81.04		125.36		46.66					94.58	84.79
Karnataka	60.80	96.98	73.36		106.96		97.66		70.81	90.20		91.43	91.95
Kerala	73.60	93.98	81.01		108.21		97.99		64.93	87.93		92.03	94.24
Kolkata	71.07	99.13	98.04		96.46		104.45		94.44	83.67		96.48	92.86
Madhya Pradesh	0.94	101.31	80.94		106.90		98.67			79.28		75.56	96.64
Maharashtra	56.97	95.27	83.62		105.44		97.77			83.35	74.98	97.78	94.04
Mumbai	57.09	103.94			92.39	71.35	96.05			82.26		88.50	89.06
North East	64.29	95.32	70.65		99.87		4.15					94.21	79.86
Orissa	61.72	98.20	77.02		100.05		8.79			82.63		104.79	82.89
Punjab	63.71	98.77	75.13	49.96	104.22		98.59			77.00		90.29	88.09
Rajasthan	53.86	94.80	77.72		104.24		98.70		59.06	118.27		89.96	89.13
Tamil Nadu (incl. Chennai)	67.99	95.76	78.24	_	96.39	_	97.43		58.26	78.30	_	100.69	86.30
U.P. (E)	74.75	96.84	69.63		105.54		98.52			75.32	73.57	91.74	88.41
U.P. (W)	99.81	93.74	63.07		100.33		98.75		55.00	77.34	75.10	93.01	89.51
West Bengal	79.91	97.17	85.84		108.37		25.59		67.20	58.82		99.99	91.75
Total	69.94	96.83	77.18	49.96	104.26	61.53	87.28		63.45	82.23	73.99	94.84	90.42

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	NL	МТ	`NL	Bha	arti	Reli	ance	Ta	ıta	Quad	lrant	Sist	ema	Voda	fone	Tot	tal	
	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Aug-16	Sep-16	Net Addition
Andhra Pradesh	1236364	1234923			153568	154512	75816	75756	171798	171362					11,010	11,010	1648556	1647563	-993
Assam	155756	155682													1,890	1,950	157646	157632	-14
Bihar	302335	302111					6,365	6,299	13,201	13,081					1170	1170	323071	322661	-410
Delhi			1612396	1612218	1249460	1254086	174466	174416	134707	134909					23,730	24,120	3194759	3199749	4990
Gujarat	1105500	1104443			75796	76021	73990	73694	87323	87407					5,250	5,370	1347859	1346935	-924
Haryana	290,471	290,269			22366	22416	4397	4397	37189	36974							354423	354056	-367
Himachal Pradesh	149,823	149,374					4066	4074	2641	2641					30	30	156560	156119	-441
J & K	127,792	129,354															127792	129354	1562
Karnataka	1231498	1228467			613640	617140	153691	154215	206541	207440					19,290	19,500	2224660	2226762	2102
Kerala	2051414	2039586			57173	57278	33216	33186	18732	18739					1590	1620	2162125	2150409	-11716
Kolkata	632122	630643			118763	119150	69154	69154	49147	49255					5130	5190	874316	873392	-924
Madhya Pradesh	722934	724554			272910	272973	19733	19732	16709	16380					390	420	1032676	1034059	1383
Maharashtra	1433965	1428521			76446	76564	82580	82540	285124	284392					12,274	12,402	1890389	1884419	-5970
Mumbai			1854881	1848292	351727	351977	254667	255230	533320	533345					19747	19914	3014342	3008758	-5584
North East	122226	122655													150	150	122376	122805	429
Orissa	277171	278217					3293	3293	8205	8334					1,020	1,080	289689	290924	1235
Punjab	617630	616366			116519	117126	21284	21284	16984	16979	258908	259732			930	930	1032255	1032417	162
Rajasthan	625045	621367			48249	48304	20344	20164	11847	11771			58427	58671	1,920	2,010	765832	762287	-3545
Tamil Nadu (incl. Chennai)	1749609	1748466			537400	542900	134112	134097	109824	109746					9030	9270	2539975	2544479	4504
U.P.(E)	383098	383493			63746	63816	34817	34822	15203	15485					1,170	1,170	498034	498786	752
U.P.(W)	370192	370099			22966	23026	7187	7187	10098	10129					930	930	411373	411371	-2
West Bengal	336253	333714					1939	1943	3956	3947					60	60	342208	339664	-2544
Total	13921198	13892304	3467277	3460510	3780729	3797289	1175117	1175483	1732549	1732316	258908	259732	58427	58671	116711	118296	24510916	24494601	-16315
Net Addition		-28894		-6767		16560		366		-233		824		244		1585		-16315	

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
	Stock in hand/in Distribution Channels
c.	(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.