

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 13th September, 2017

(www.traigov.in)

Highlights of Telecom Subscription Data as on 31st July, 2017

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1186.79	23.92	1210.71
Net Addition in July, 2017 (Million)	-0.05	-0.08	-0.13
Monthly Growth Rate	-0.004%	-0.34%	-0.01%
Urban Telephone Subscribers (Million)	682.69	20.28	702.97
Net Addition in July, 2017 (Million)	2.03	-0.02	2.01
Monthly Growth Rate	0.30%	-0.12%	0.29%
Rural Telephone Subscribers (Million)	504.10	3.63	507.74
Net Addition in July, 2017 (Million)	-2.08	-0.06	-2.14
Monthly Growth Rate	-0.41%	-1.58%	-0.42%
Overall Tele-density*(%)	92.03	1.85	93.88
Urban Tele-density*(%)	168.21	5.00	173.21
Rural Tele-density*(%)	57.04	0.41	57.45
Share of Urban Subscribers	57.52%	84.81%	58.06%
Share of Rural Subscribers	42.48%	15.19%	41.94%
Broadband Subscribers (Million)	292.73	18.14	310.87

- ❖ In the month of July, 2017, 5.91 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 288.97 million at the end of Jun-17 to 294.87 million at the end of Jul-17, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in July, 2017 was 1,022.75 million.

Note:

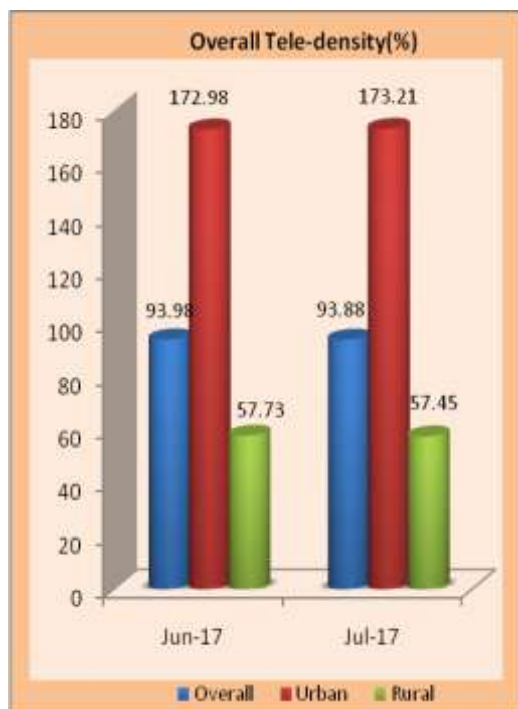
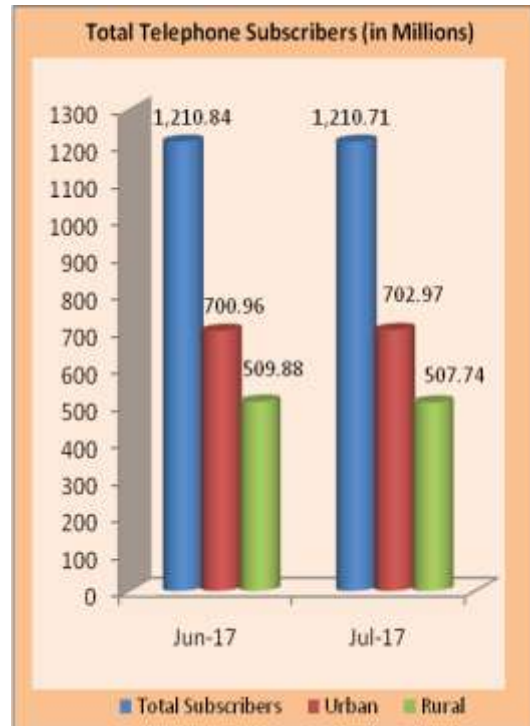
- Information in this Press Release is based on the data provided by the Service Providers

* 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.

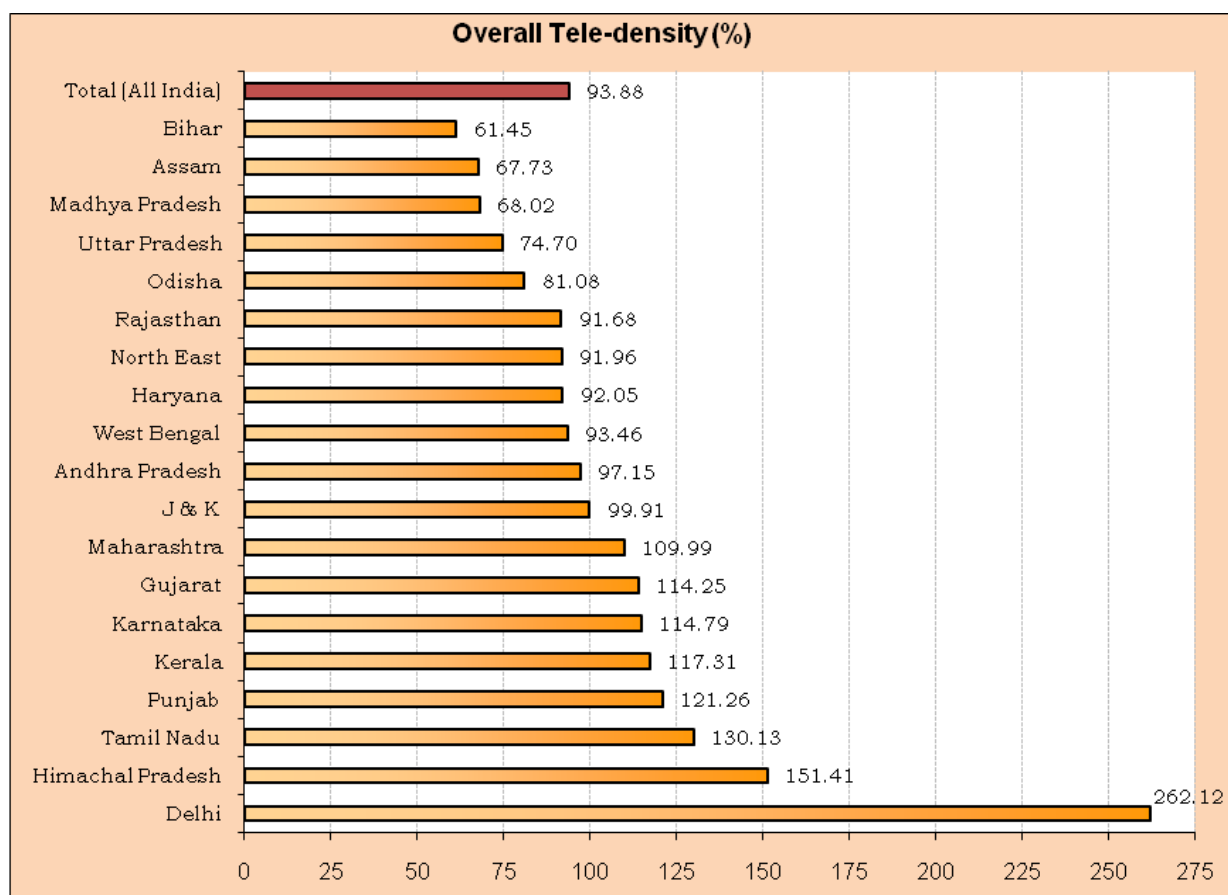
I. Total Telephone Subscribers

The number of telephone subscribers in India slightly declined from 1,210.84 million at the end of Jun-17 to 1,210.71 million at the end of Jul-17, thereby showing a monthly growth rate of -0.01%. The urban subscription increased from 700.96 million at the end of Jun-17 to 702.97 million at the end of Jul-17, however the rural subscription declined from 509.88 million to 507.74 million during the same period. The monthly growth rates of urban and rural subscription were 0.29% and -0.42% respectively during the month of Jul-17.



The overall Tele-density in India declined from 93.98 at the end of Jun-17 to 93.88 at the end of Jul-17. The Urban Tele-density increased from 172.98 at the end of Jun-17 to 173.21 at the end of Jul-17, however the Rural Tele-density declined from 57.73 at the end of Jun-17 to 57.45 at the end of Jul-17. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of Jul-17 was 58.06% and 41.94% respectively.

Overall Tele-density (Circle/State Wise) – As on 31st July, 2017



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 July, 2017

Circle Category	Net additions in the month of July, 2017		Telephone Subscriber base as on 31 st July, 2017	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-39,988	264,856	9,400,239	413,275,369
Circle B	-50,882	-741,036	6,214,840	473,647,987
Circle C	-13,226	-236,938	1,087,735	178,400,603
Metro	20,198	662,239	7,058,231	121,466,046
All India	-83,898	-50,879	23,761,045	1,186,790,005

Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of July, 2017

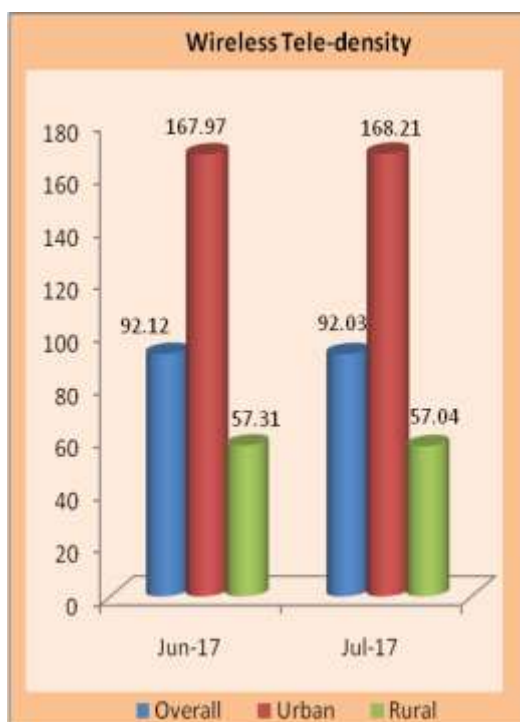
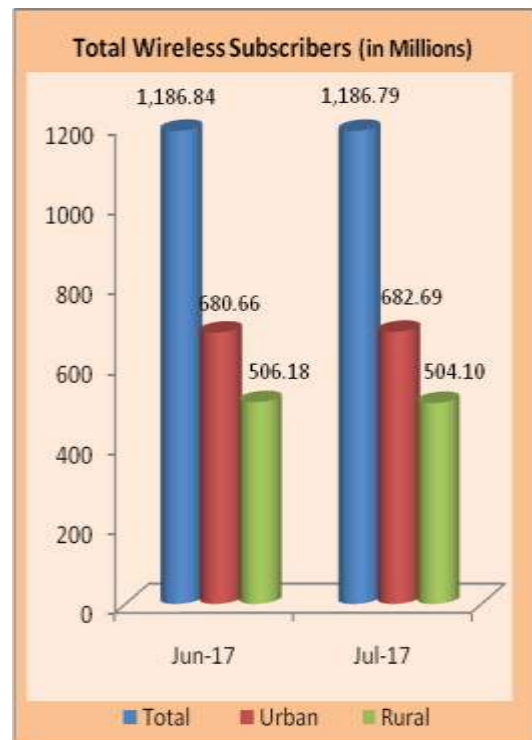
Circle Category	Monthly growth rate (%) (Jun-17 to Jul-17)		Yearly growth rate (%) (Jul-16 to Jul-17)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-0.42	0.06	-3.09	14.24
Circle B	-0.81	-0.16	-6.38	14.72
Circle C	-1.20	-0.13	-8.62	14.94
Metro	0.29	0.55	-0.43	16.36
All India	-0.35	-0.004	-3.48	14.75

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-A and Metro Circles showed positive monthly growth rate in subscriber base during the month of Jul-17. Circles of Category B and C showed negative monthly growth in subscriber base during the same period.
- In Wireline segment, Circles of Category-A showed maximum monthly net decline in subscriber base during the month of Jul-17. However, Metro Circles showed positive monthly growth rate in subscriber base during the same period.

III. Wireless Subscribers

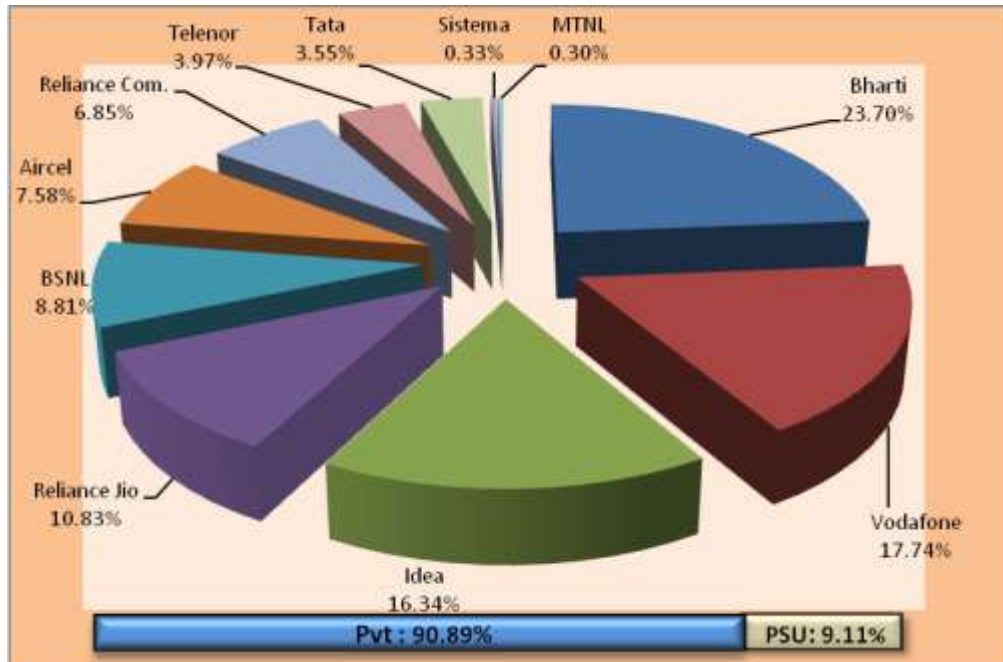
• Total wireless subscribers (GSM, CDMA & LTE) slightly declined from 1,186.84 million at the end of Jun-17 to 1,186.79 million at the end of Jul-17, thereby registering a monthly growth rate of -0.004%. The Wireless subscription in urban areas increased from 680.66 million at the end of Jun-17 to 682.69 million at the end of Jul-17, however wireless subscription in rural areas declined from 506.18 million to 504.10 million during the same period. The monthly growth rates of urban and rural wireless subscription were 0.30% and -0.41% respectively.



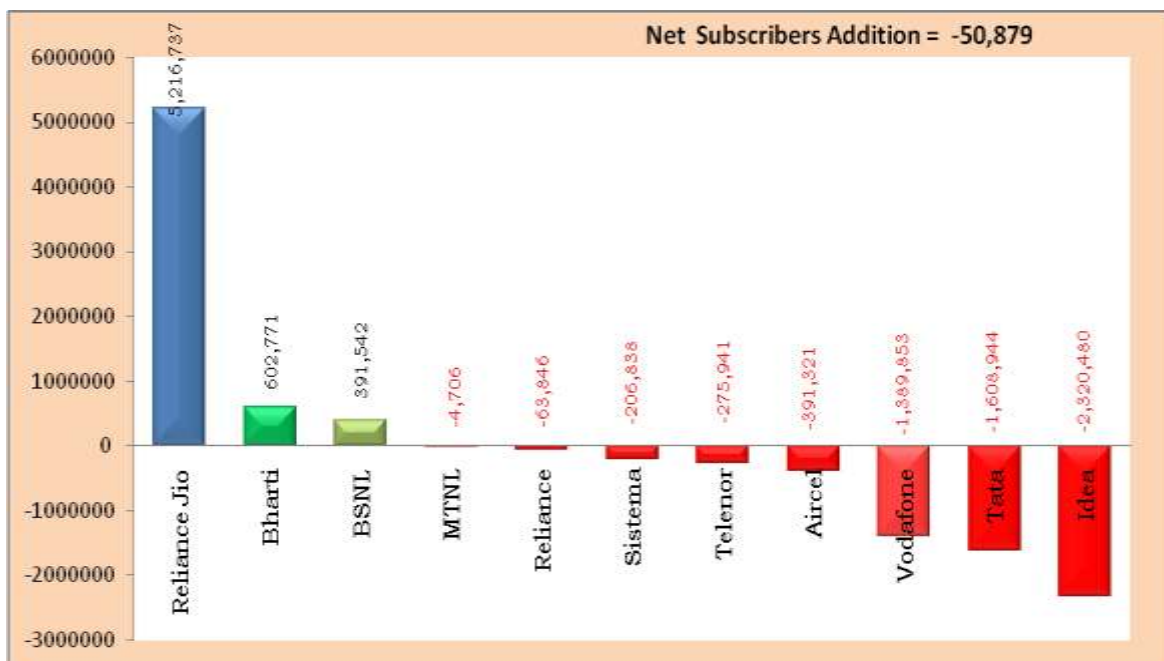
• The Wireless Tele-density(%) in India declined from 92.12 at the end of Jun-17 to 92.03 at the end of Jul-17. The Urban Wireless Tele-density increased from 167.97 at the end of Jun-17 to 168.21 at the end of Jul-17, however Rural Wireless Tele-density declined from 57.31 to 57.04 during the same period. 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 Jul-17. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 31st July, 2017, the private access service providers held 90.89% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.11%. 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 Subscribers as on 31st July, 2017



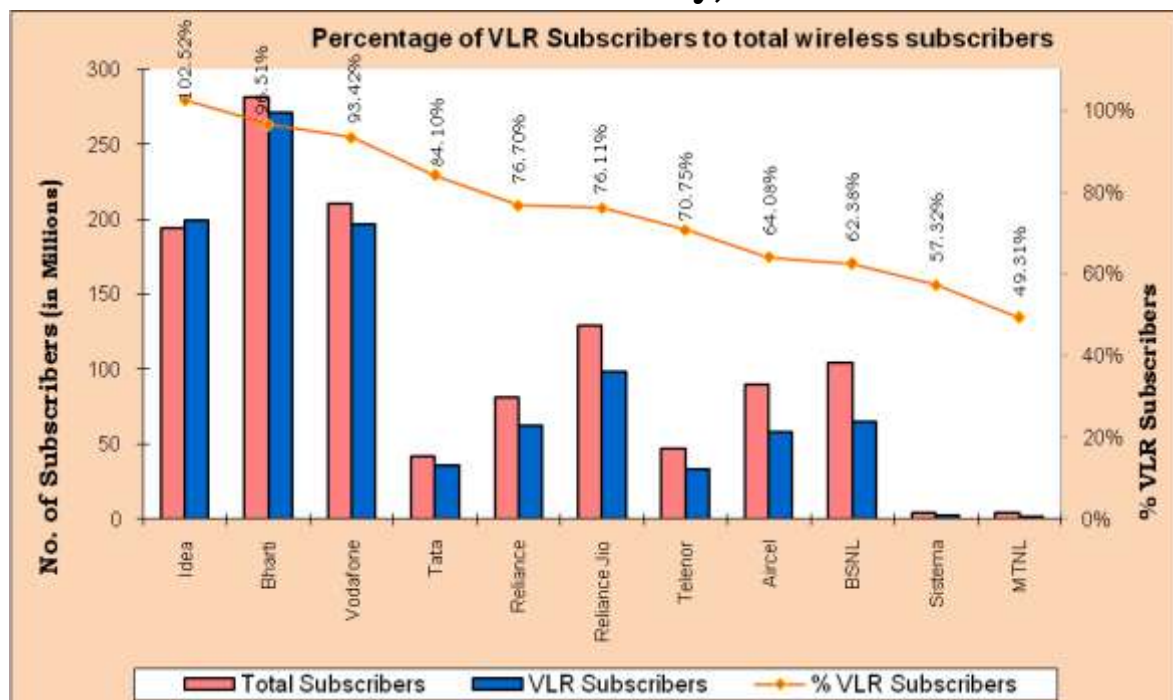
Net Additions in Wireless Subscribers of Access Service Providers in the Month of July, 2017



IV. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscribers (1,186.79 million), 1,022.75 million wireless subscribers were active on the date of peak VLR in the month of Jul-17. The proportion of active wireless subscribers was approximately 86.18% 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 Jul-17 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

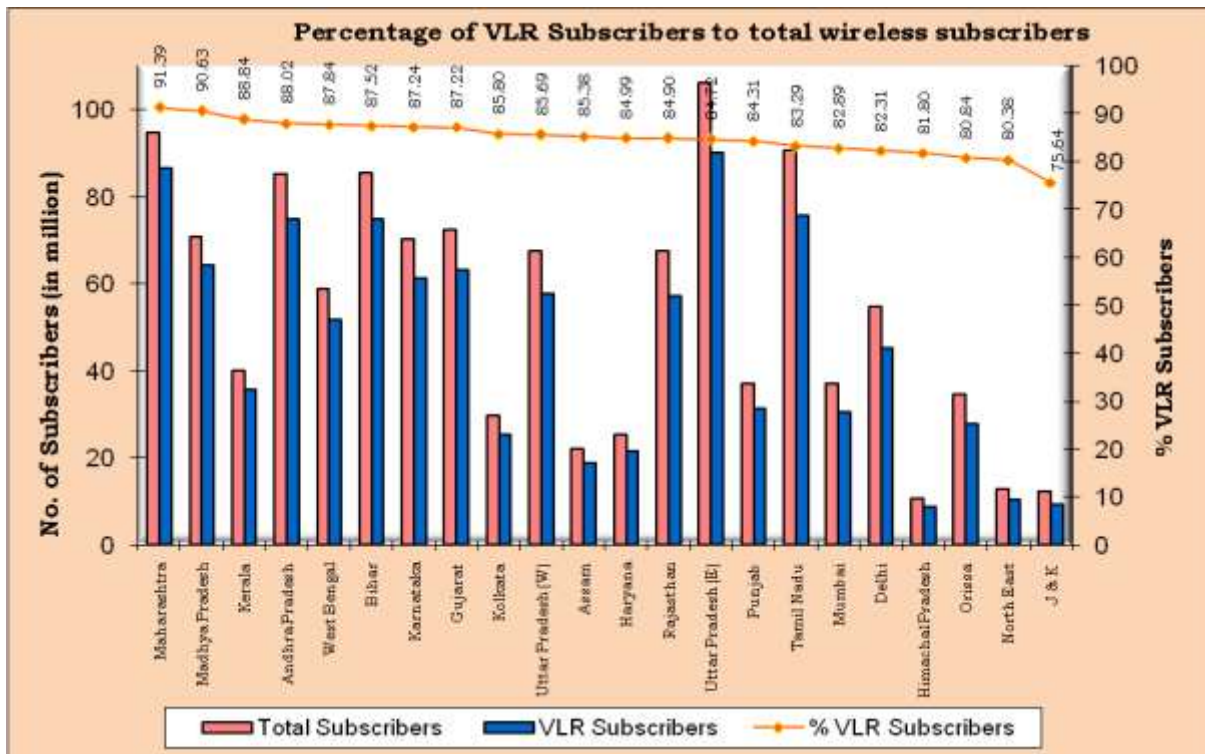
Access Service Provider-wise Percentage of VLR Subscribers in the Month of July, 2017



Note-

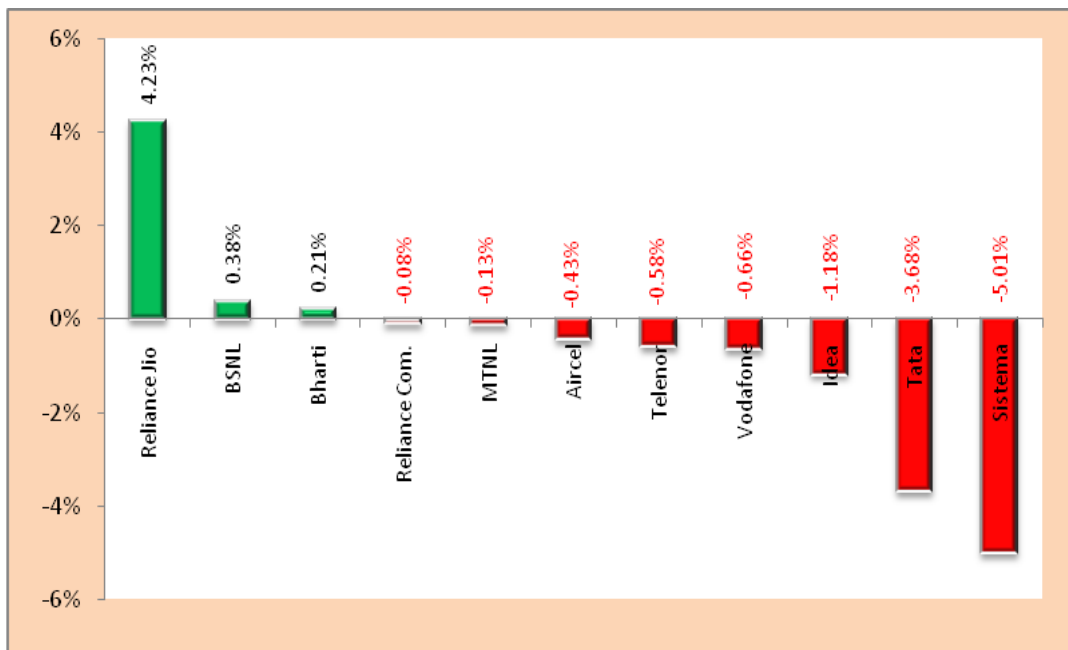
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

Service Area wise percentage of VLR Subscribers in the Month of July, 2017

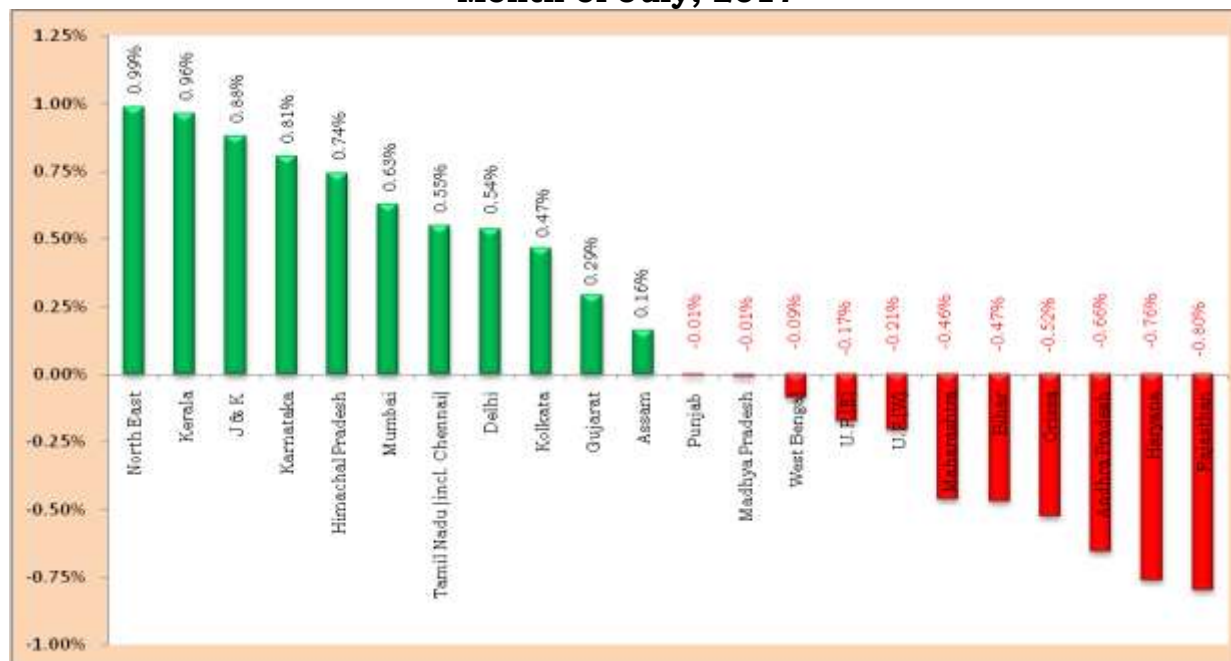


V. Growth in Wireless Subscribers

Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the Month of July, 2017



Service Area-wise Monthly Growth Rate of Wireless Subscribers in the Month of July, 2017



- During the month of Jul-17, North East service area showed maximum growth rate in wireless subscribers during the month of Jul-17. However, Rajasthan service areas showed maximum decline rate in wireless subscribers during the month.

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.
- During the month of Jul-17, a total of 5.91 million requests were received for MNP. With this, the cumulative MNP requests increased from 288.97 million at the end of Jun-17 to 294.87 million at the end of Jul-17, 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 24.85 million) followed by Gujarat (about 21.02 million).

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 32.03 million) followed by Andhra Pradesh (about 26.65 million).

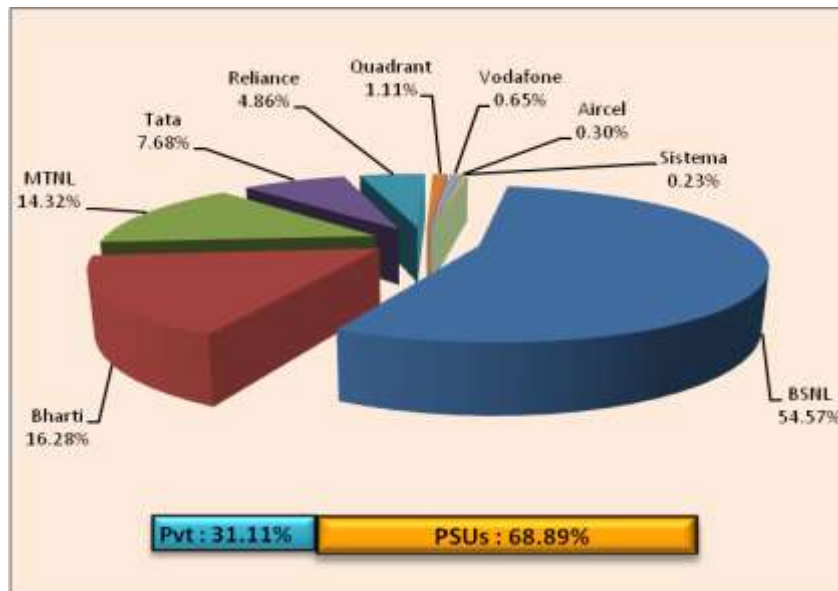
Service Area Wise MNP Status at the end of July, 2017			
Zone - I		Zone - II	
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	13413704	Andhra Pradesh	26645082
Gujarat	21023109	Assam	1573546
Haryana	11827405	Bihar	10712149
Himachal Pradesh	1098277	Karnataka	32032831
Jammu & Kashmir	179441	Kerala	7917318
Maharashtra	20401359	Kolkata	6138985
Mumbai	16179462	Madhya Pradesh	19953561
Punjab	11476264	North East	578471
Rajasthan	24849466	Orissa	5768634
Uttar Pradesh - East	15004827	Tamil Nadu	17890416
Uttar Pradesh - West	13365392	West Bengal	16841931
Total	148,818,706	Total	146,052,924
Total (Zone-I + Zone-II)		294,871,630	
Net Addition (in July, 2017)		5,906,115	

VII. Wireline Subscribers

- Wireline subscribers declined from 24.00 million at the end of Jun-17 to 23.92 million at the end of Jul-17. Net decline in the wireline subscriber base was 0.08 million with a monthly decline rate of 0.34%. The share of urban and rural subscribers in total wireline subscribers were 84.81% and 15.19% respectively at the end of Jul-17.
- The Overall Wireline Tele-density(%) declined from 1.86 at the end of Jun-17 to 1.85 at the end of Jul-17. Urban and Rural Wireline Tele-density were 5.00 and 0.41 respectively during the same period.

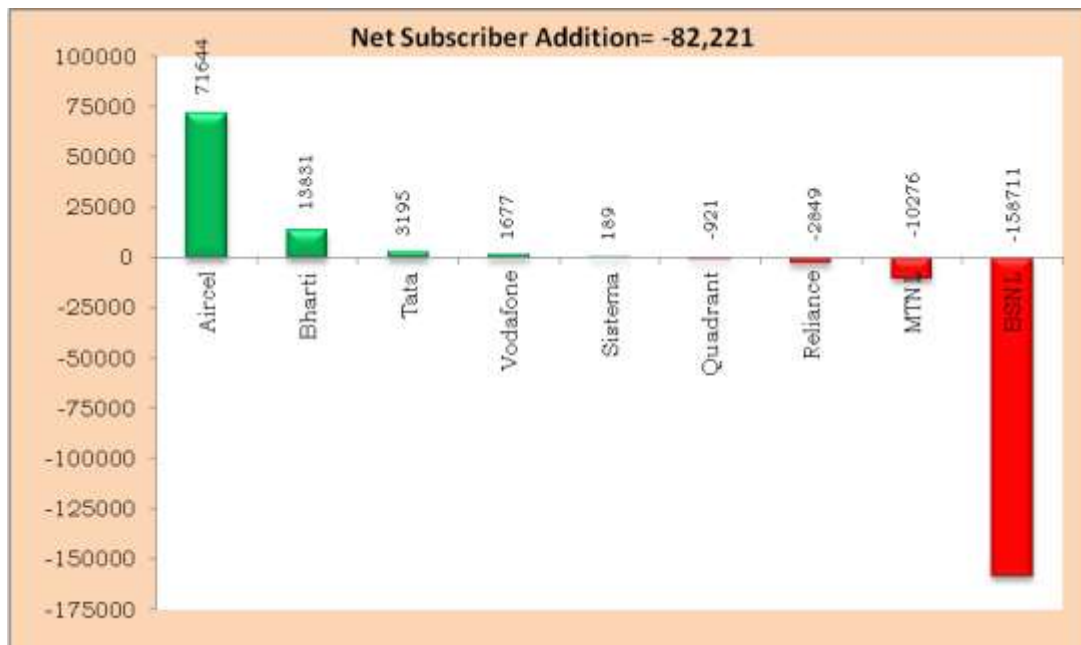
- BSNL and MTNL, the two PSU access service providers, held 68.89% of the wireline market share. Detailed statistics of wireline subscriber base are available at **Annexure-III**.
- The graphical representations of service provider-wise market shares in the wireline segment and net additions in wireline subscriber bases in the month of Jul-17 are given below:

Access Service Provider-wise Market Shares (Wireline Subscribers) as on 31st July, 2017



Note: M/s Aircel Ltd has started reporting of its wireline subscriber base from the month of July, 2017

Access Service Provider-wise Net Additions/declines in Wireline Subscribers during the Month of July, 2017



VIII. Broadband (\geq 512 Kbps download)

- As per the reports received from the service providers, the number of broadband subscribers increased from 300.84 Million at the end of Jun-17 to 310.87 million at the end of Jul-17 with a monthly growth rate of 3.33%. Segment-wise broadband subscribers and their monthly growth rates are as below:

Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of July, 2017

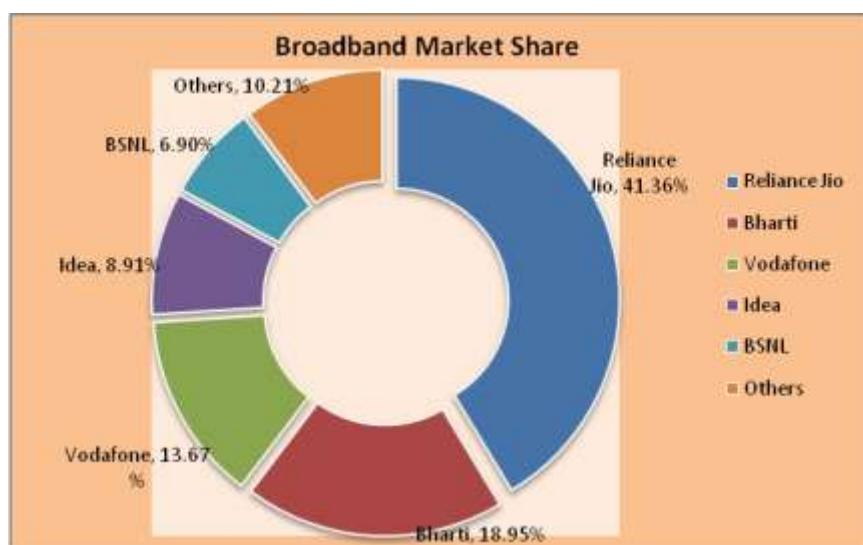
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of Jul-17
	As on 30 th June, 2017	As on 31 st July, 2017	
Wired subscribers	18.33	18.14	-1.06
Mobile devices users (Phones and dongles)	281.99	292.22	3.63
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.52	0.51	-2.06
Total	300.84	310.87	3.33

- Top five service providers constituted 89.79% market share of the total broadband subscribers at the end of Jul-17. These service providers were Reliance Jio Infocom Ltd (128.58 million), Bharti Airtel (58.91 million), Vodafone (42.50 million), Idea Cellular (27.70 million) and BSNL (21.45 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 31.07.2017**



- As on 31st July, 2017, the top five Wired Broadband Service providers were BSNL (9.66 million), Bharti Airtel (2.10 million), Atria Convergence Technologies (1.23 million), MTNL (0.97 million) and YOU Broadband (0.66 million).
- As on 31st July, 2017, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (128.58 million), Bharti Airtel (56.80 million), Vodafone (42.49 million), Idea Cellular (27.70 million) and Reliance Communications (12.75 million).

Contact details in case of any clarification:

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Wireless Subscriber Base

Annexure-I

Circle	Group											
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel	
	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17
Andhra Pradesh	26561927	26638186	3539313	3425484	6919989	6867192	3453195	3332530	17331094	16938664	2626198	2608564
Assam	6624242	6624021	1035797	1007338	3915440	3868908			1282852	1239308	5884454	5884219
Bihar	31421128	31240511	3066040	3112128	9923602	9736756	1180041	1113448	12810393	12368670	7613870	7590074
Delhi	11879196	11981354	5544923	5731960	11010985	11030784	1470447	1332946	6520788	6523661	6929408	6900962
Gujarat	9207176	9258770	5385297	5440369	20251177	20234979	2208076	2148992	13032329	12972385	17063	15467
Haryana	3626781	3646606	1445274	1424162	6144554	6019205	2118311	2026283	5178273	5058203	3092	3092
Himachal Pradesh	3068332	3068448	1476448	1507890	712266	682179	37624	32594	822480	825199	1084516	1072569
J & K	3810968	3835826	836663	807655	1017708	997382			681045	665344	3124070	3186160
Karnataka	22644710	22965302	5289568	5395847	7723097	7789893	5599262	5503567	9492765	9515661	3411987	3318202
Kerala	4609417	4641721	1221801	1208179	7698705	7745605	1156695	1119279	11098812	11171159	360447	355116
Kolkata	5105001	5141027	3823230	3838615	5791492	5788503	2249564	2206136	2593244	2590968	4423177	4387777
Madhya Pradesh	14335261	14220996	9019052	9042324	6745400	6600106	3891276	3786256	24418067	24272818	20694	20694
Maharashtra	15086592	14881807	3605082	3519888	20005482	19754226	4507815	4278996	27242171	27050093	2360644	2346893
Mumbai	6531587	6631153	4748797	4675555	8937828	8941002	2435623	2373323	4282973	4319996	2885166	2871666
North East	4382519	4400802	238183	244663	1602656	1588005			564185	533821	3415817	3516243
Orissa	11792517	11803288	2119436	2091848	4628339	4487580	1634958	1574059	1904961	1843176	4484570	4388770
Punjab	9278084	9348553	1699414	1642239	5461780	5298472	1970260	1881860	7193939	7173121	1112325	1108271
Rajasthan	21377158	21327136	5497695	5456820	12267926	12007134	750376	684208	8308532	8121526	6617914	6594327
Tamil Nadu (incl. Chennai)	18655505	19042961	5595869	5622361	16347360	16296417	3454839	3390810	6063902	5888168	21132128	20996483
U.P.(E)	24686410	24663553	7640322	7528180	21497341	21497849	2863134	2732338	12629155	12343227	6779256	6748346
U.P.(W)	9169627	9135352	5444410	5483048	12675462	12665741	2480710	2380282	16590969	16444208	879065	872207
West Bengal	16793179	16752715	3063833	3066048	20660773	20651591	241699	197054	6235360	6098433	5157543	5145981
Total	280647317	281250088	81336447	81272601	211939362	210549509	43703905	42094961	196278289	193957809	90323404	89932083
Net Addition		602771		-63846		-1389853		-1608944		-2320480		-391321
Rural Subscribers	141504704	141505149	18199313	18129616	116169432	116709158	9396202	8812322	110678853	107278759	31894426	31866207

Wireless Subscriber Base

Annexure-I (contd.)

Circle	Group												Net Addition
	BSNL		MTNL		Telenor		Sistema		Reliance Jio		Total		
	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17	
Andhra Pradesh	10000799	10022468			4736707	4624942			10576313	10725316	85745535	85183346	-562189
Assam	1533721	1534939							1863142	2016623	22139648	22175356	35708
Bihar	4042618	4032201			8801239	8780746			7149271	7629393	86008202	85603927	-404275
Delhi			2320627	2318416			452581	435913	8419025	8585443	54547980	54841439	293459
Gujarat	4974646	5051004			8008349	7963439	93273	85483	9121887	9338554	72299273	72509442	210169
Haryana	3994898	3985130							3159776	3312305	25670959	25474986	-195973
Himachal Pradesh	2246658	2261703							1195557	1272209	10643881	10722791	78910
J & K	1497313	1515183							1380981	1449882	12348748	12457432	108684
Karnataka	7066186	7034574					624197	598758	7781135	8072922	69632907	70194726	561819
Kerala	9524625	9655253					197812	191952	3955304	4118531	39823618	40206795	383177
Kolkata	1102080	1134710					318047	307046	4077977	4226333	29483812	29621115	137303
Madhya Pradesh	5340905	5412263							7145626	7553864	70916281	70909321	-6960
Maharashtra	6557901	6705211			6965231	6899035			8756881	9212795	95087799	94648944	-438855
Mumbai			1302170	1299675					5647871	5891122	36772015	37003492	231477
North East	1573755	1553074							998167	1064682	12775282	12901290	126008
Orissa	5162151	5180736							2994848	3170350	34721780	34539807	-181973
Punjab	4878154	4884090							5493385	5747170	37087341	37083776	-3565
Rajasthan	5923673	5761034					1062029	982088	6169980	6498862	67975283	67433135	-542148
Tamil Nadu (incl. Chennai)	9587729	9715168					416727	400347	8990940	9386196	90244999	90738911	493912
U.P.(E)	11492735	11563526			11014512	11049870			7855106	8145935	106457971	106272824	-185147
U.P.(W)	5899821	5796138			7811380	7743445	81411	79411	6532070	6825304	67564925	67425136	-139789
West Bengal	1756933	1750438					884697	842938	4098628	4336816	58892645	58842014	-50631
Total	104157301	104548843	3622797	3618091	47337418	47061477	4130774	3923936	123363870	128580607	1186840884	1186790005	-50879
Net Addition		391542		-4706		-275941		-206838		5216737		-50879	
Rural Subscribers	33628856	33694624	48501	48455	13680976	13550794	907333	855334	30076085	31654075	506184681	504104493	-2080188

Proportion of VLR on the date of Peak VLR in the month of Jul-17 (%)

Annexure-II

Circle	Aircel	Bharti	BSNL	Idea	MTNL	Reliance	Reliance Jio	Sistema	Tata	Telenor	Vodafone	Total
Andhra Pradesh	54.24	97.09	72.30	104.43		83.60	71.82		89.65	72.54	85.27	88.02
Assam	85.23	94.47	73.08	104.38		3.63	88.85				88.29	85.38
Bihar	87.76	94.56	64.75	100.28		7.98	86.00		79.84	74.72	97.01	87.52
Delhi	50.55	95.05		103.42	41.42	80.06	71.65	43.78	56.99		98.48	82.31
Gujarat	2486.66	95.64	57.64	104.51		88.52	77.07	42.36	72.54	61.21	94.14	87.22
Haryana	0.36	95.46	46.48	102.57		91.21	72.47		86.70		94.26	84.99
Himachal Pradesh	44.93	95.43	59.97	116.40		91.91	78.08		29.76		96.03	81.80
J & K	65.06	83.75	66.90	103.83		49.85	80.32				86.79	75.64
Karnataka	48.79	97.25	63.17	99.42		82.54	75.51	58.50	91.19		95.78	87.24
Kerala	58.53	99.26	70.84	102.90		88.30	76.49	44.35	86.38		94.24	88.84
Kolkata	59.25	97.76	74.76	95.53		97.42	71.11	67.25	87.79		96.34	85.80
Madhya Pradesh	0.99	96.50	64.10	104.09		85.71	78.28		77.18		79.12	90.63
Maharashtra	50.21	99.02	64.52	102.76		89.52	85.49		89.86	68.13	95.61	91.39
Mumbai	46.03	100.44		91.27	63.38	81.23	69.90		80.49		90.56	82.89
North East	59.96	96.61	70.59	103.31		15.31	84.97				89.39	80.38
Orissa	66.07	96.45	68.16	106.41		5.22	80.99		83.09		92.75	80.84
Punjab	49.19	95.24	57.44	101.09		86.41	70.53		80.35		90.14	84.31
Rajasthan	44.18	95.43	58.08	100.84		81.59	77.96	56.28	172.04		93.30	84.90
Tamil Nadu (incl. Chennai)	65.82	100.02	65.56	104.10		87.18	71.74	52.67	72.77		97.55	83.29
U.P. (E)	59.71	96.75	48.71	104.74		88.07	78.21		86.95	73.59	93.39	84.72
U.P. (W)	77.05	95.68	51.07	99.54		90.05	67.25	47.57	83.68	73.26	93.19	85.69
West Bengal	81.52	97.25	81.83	106.44		8.08	79.46	68.66	4.47		91.98	87.84
Total	64.08	96.51	62.38	102.52	49.31	76.70	76.11	57.32	84.10	70.75	93.42	86.18

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									
	BSNL		MTNL		Bharti		Reliance		Tata	
	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17
Andhra Pradesh	1171208	1150737			162352	163471	75219	74897	175383	175582
Assam	147597	145782								
Bihar	267648	263389					6,497	6,496	12706	12039
Delhi			1586330	1581292	1292744	1298653	169762	169002	139984	140137
Gujarat	1069105	1063555			77421	77642	72364	71992	90250	89773
Haryana	263,687	259,598			22735	22626	4014	4014	38599	38180
Himachal Pradesh	135,296	132,497					3924	3891	2514	2499
J & K	127,199	126,116								
Karnataka	1196976	1177638			623250	627914	158808	159303	251887	252620
Kerala	1968798	1949984			58211	57569	32796	32676	18863	18994
Kolkata	595304	589596			120930	121076	68878	68738	50377	50470
Madhya Pradesh	704002	700710			272754	272801	19622	19646	15354	15278
Maharashtra	1368082	1354646			79363	79392	80691	80377	309047	309941
Mumbai			1847835	1842597	358504	360585	253751	253097	553634	556062
North East	117456	116521								
Orissa	268850	267284					3311	3281	7963	7938
Punjab	543953	533406			119123	118999	20149	20113	16031	15969
Rajasthan	569465	559478			48694	49073	19706	19736	11407	11443
Tamil Nadu (incl. Chennai)	1677493	1651421			556447	556465	132050	131503	112831	112853
U.P.(E)	371671	370722			64002	64070	34373	34304	13221	13173
U.P.(W)	338096	334073			22974	22999	7102	7102	9630	10007
West Bengal	308967	304989					1938	1938	4149	4067
Total	13210853	13052142	3434165	3423889	3879504	3893335	1164955	1162106	1833830	1837025
Net Addition		-158711		-10276		13831		-2849		3195
Rural Subscribers	3565879	3507740	0	0	0	0	1643	1731	54897	55006

Wireline Subscriber Base

Annexure-III (Contd.)

Circle	Group								Total		Net Addition
	Quadrant		Sistema		Vodafone		Aircel		Jun-17	Jul-17	
	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17	Jun-17	Jul-17			
Andhra Pradesh					13260	13290		4600	1597422	1582577	-14845
Assam					2550	2730		1	150147	148513	-1634
Bihar					1920	1920		1	288771	283845	-4926
Delhi					30450	30750		16361	3219270	3236195	16925
Gujarat					8931	9117		1596	1318071	1313675	-4396
Haryana									329035	324418	-4617
Himachal Pradesh					60	60			141794	138947	-2847
J & K									127199	126116	-1083
Karnataka					24180	24330		31932	2255101	2273737	18636
Kerala					1830	1830		2586	2080498	2063639	-16859
Kolkata					5700	5280			841189	835160	-6029
Madhya Pradesh					570	570			1012302	1009005	-3297
Maharashtra					14505	14634		389	1851688	1839379	-12309
Mumbai					24098	24740		10565	3037822	3047646	9824
North East					180	150			117636	116671	-965
Orissa					1320	1320			281444	279823	-1621
Punjab	266567	265646			1050	1080		31	966873	955244	-11629
Rajasthan			55069	55258	5700	5700		3580	710041	704268	-5773
Tamil Nadu (incl. Chennai)					11520	11550			2490341	2463792	-26549
U.P.(E)					1950	1980		2	485217	484251	-966
U.P.(W)					4110	4530			381912	378711	-3201
West Bengal					60	60			315114	311054	-4060
Total	266567	265646	55069	55258	153944	155621	0	71644	23998887	23916666	-82221
Net Addition		-921		189		1677		71644		-82221	
Rural Subscribers	58630	58342	9825	9799	0	0	0	0	3690874	3632618	-58256

Note: M/s Aircel Ltd has started reporting of its wireline subscriber base from the month of July, 2017

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 based on HLR and numbers available in VLR.

The VLR subscriber data calculated here is based on active subscribers in VLR on the date of Peak subscriber number in 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.