

**TELECOM REGULATORY AUTHORITY OF INDIA**

New Delhi, 11th January, 2018
(www.traigov.in)

**Highlights of Telecom Subscription Data as on 30th November, 2017**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1162.47	23.41	1185.88
Net Addition in November, 2017 (Million)	-15.73	-0.12	-15.84
Monthly Growth Rate	-1.33%	-0.49%	-1.32%
Urban Telephone Subscribers (Million)	664.94	19.95	684.89
Net Addition in November, 2017 (Million)	-12.58	-0.07	-12.65
Monthly Growth Rate	-1.86%	-0.36%	-1.81%
Rural Telephone Subscribers (Million)	497.53	3.47	500.99
Net Addition in November, 2017 (Million)	-3.15	-0.04	-3.19
Monthly Growth Rate	-0.63%	-1.25%	-0.63%
Overall Tele-density*(%)	89.81	1.81	91.61
Urban Tele-density*(%)	162.84	4.88	167.72
Rural Tele-density*(%)	56.15	0.39	56.54
Share of Urban Subscribers	57.20%	85.20%	57.75%
Share of Rural Subscribers	42.80%	14.80%	42.25%
Broadband Subscribers (Million)	332.85	17.85	350.70

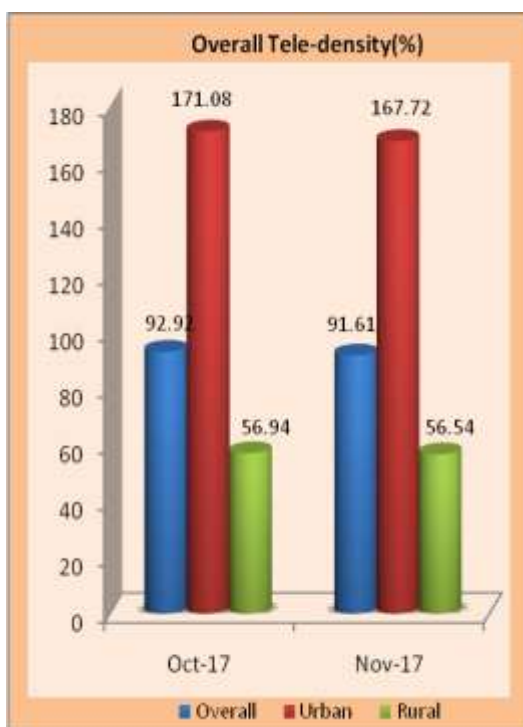
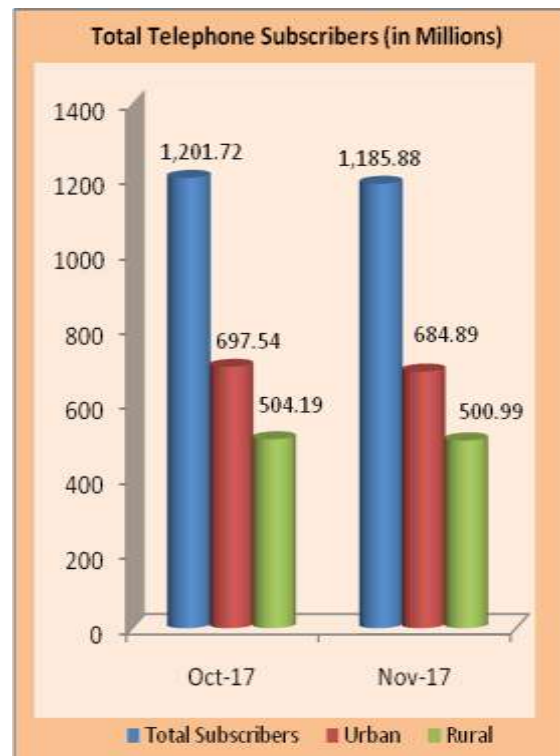
- ❖ In the month of November, 2017, 15.99 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 314.99 million at the end of Oct-17 to 330.98 million at the end of Nov-17, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in November, 2017 was 1,006.40 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.

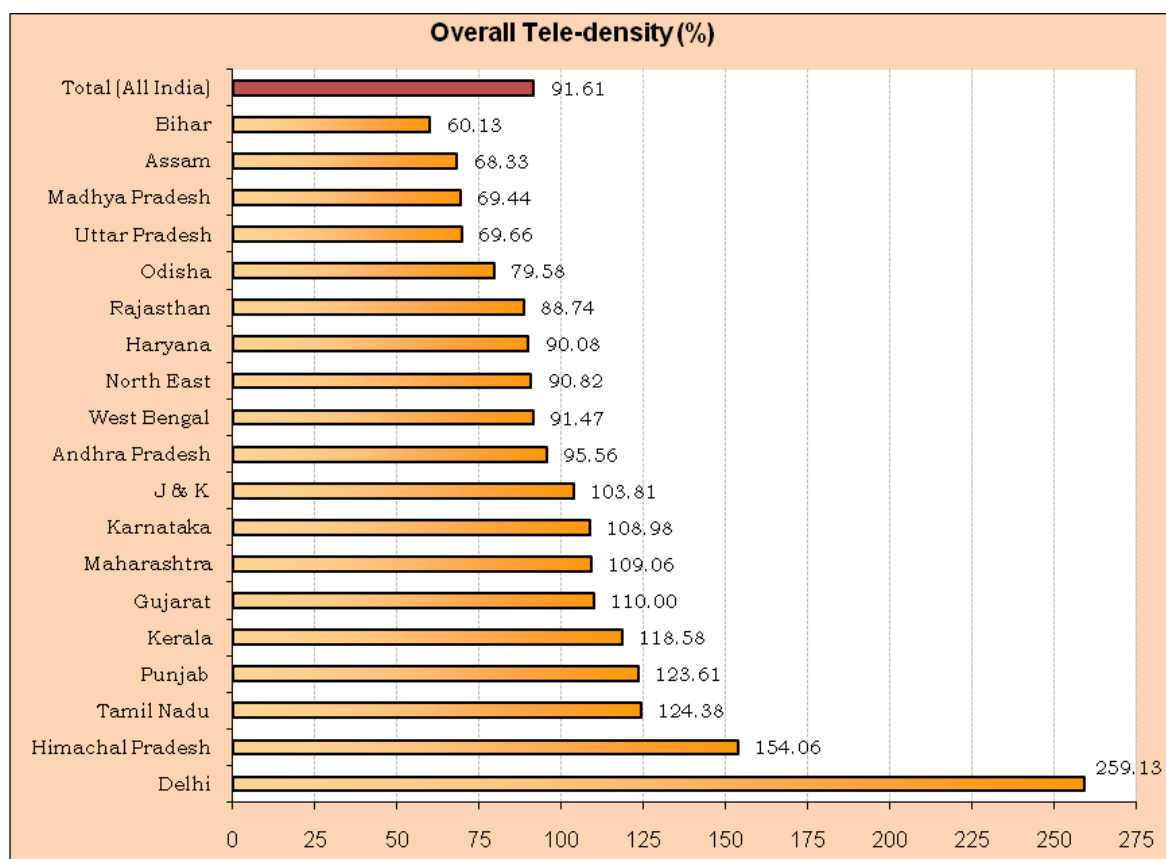
I. Total Telephone Subscribers

- The number of telephone subscribers in India declined from 1,201.72 million at the end of Oct-17 to 1,185.88 million at the end of Nov-17, thereby showing a monthly decline rate of 1.32%. The urban subscription declined from 697.54 million at the end of Oct-17 to 684.89 million at the end of Nov-17, and the rural subscription also declined from 504.19 million to 500.99 million during the same period. The monthly decline rates of urban and rural subscription were 1.81% and 0.63% respectively during the month of Nov-17.



- The overall Tele-density in India declined from 92.92 at the end of Oct-17 to 91.61 at the end of Nov-17. The Urban Tele-density declined from 171.08 at the end of Oct-17 to 167.72 at the end of Nov-17, and the Rural Tele-density also declined from 56.94 at the end of Oct-17 to 56.54 at the end of Nov-17. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of Nov-17 was 57.75% and 42.25% respectively.

Overall Tele-density (Circle/State Wise) – As on 30th November, 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 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 November, 2017

Circle Category	Net additions in the month of November, 2017		Telephone Subscriber base as on 30 th November, 2017	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-63,296	-9,234,010	9,262,271	400,846,444
Circle B	-40,060	-7,828,716	6,026,322	462,790,256
Circle C	-4,602	867,945	1,051,878	177,257,633
Metro	-7,599	469,562	7,072,495	121,576,099
All India	-115,557	-15,725,219	23,412,966	1,162,470,432

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

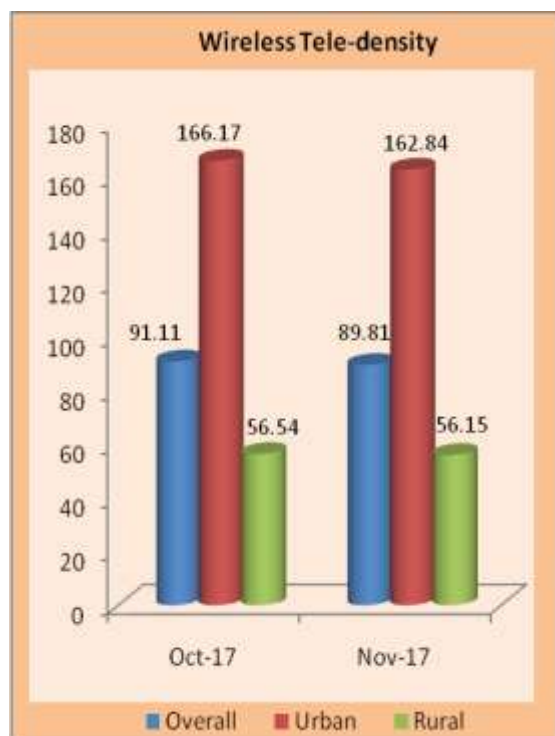
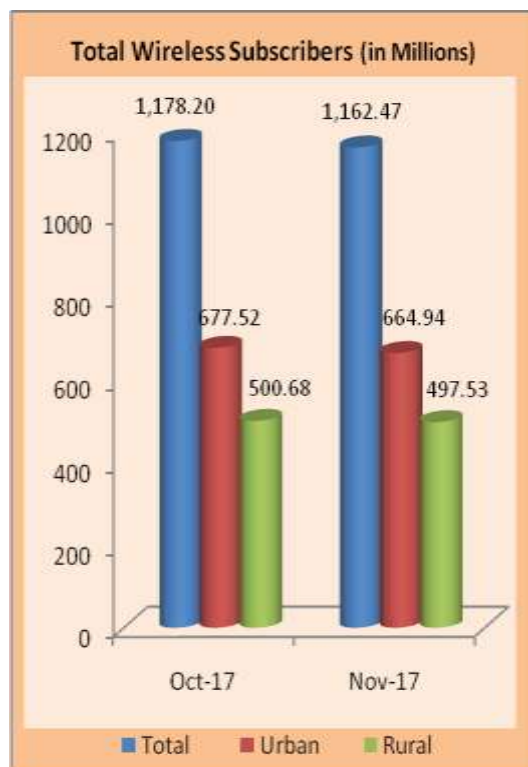
Circle Category	Monthly growth rate (%) (Oct-17 to Nov-17)		Yearly growth rate (%) (Nov-16 to Nov-17)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-0.68	-2.25	-3.75	4.17
Circle B	-0.66	-1.66	-7.85	5.39
Circle C	-0.44	0.49	-10.62	7.04
Metro	-0.11	0.39	-0.46	10.55
All India	-0.49	-1.33	-4.22	5.73

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, Circles of Category-A and Category-B showed negative monthly growth rate in subscriber base during the month of Nov-17. However, Circles of Category-C and Metro Circles showed positive growth rate in wireless subscriber base during the month.
- In Wireline segment, all categories showed decline in their subscriber base during the month of Nov-17. Circles of Category-A showed maximum monthly net decline and maximum monthly decline rate in number of wireline subscribers during the month.

III. Wireless Subscribers

- Total wireless subscribers (GSM, CDMA & LTE) declined from 1,178.20 million at the end of Oct-17 to 1,162.47 million at the end of Nov-17, thereby registering a monthly decline rate of 1.33%. The Wireless subscription in urban areas declined from 677.52 million at the end of Oct-17 to 664.94 million at the end of Nov-17, and wireless subscriptions in rural areas also declined from 500.68 million to 497.53 million during the month. The monthly decline rates of urban and rural wireless subscription were 1.86% and 0.63% respectively.

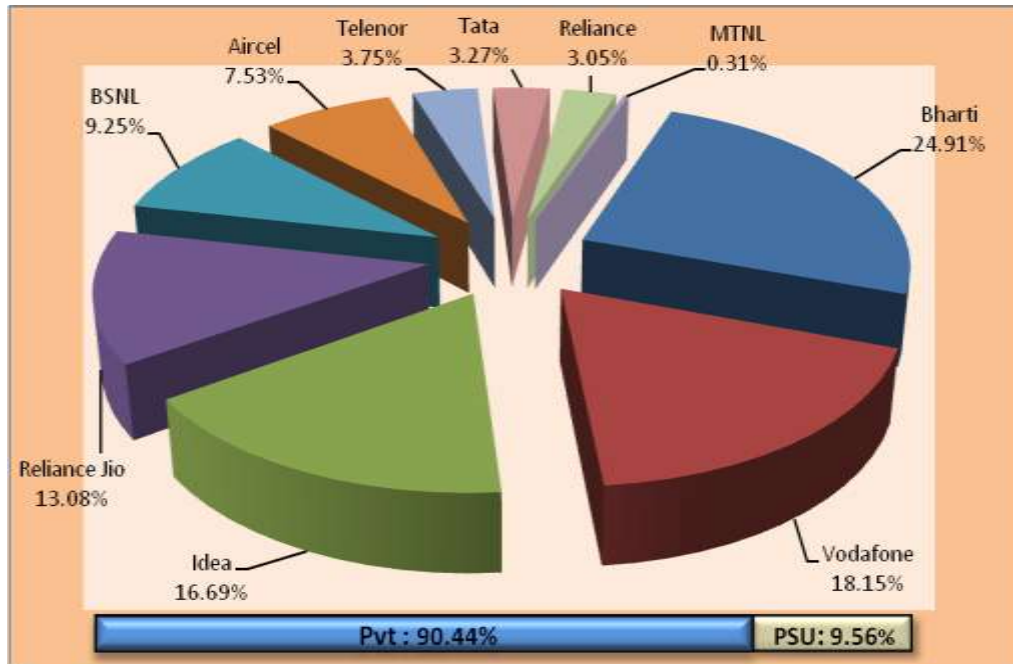


- The Wireless Tele-density in India declined from 91.11 at the end of Oct-17 to 89.81 at the end of Nov-17. The Urban Wireless Tele-density declined from 166.17 at the end of Oct-17 to 162.84 at the end of Nov-17, and Rural Wireless Tele-density also declined from 56.54 to 56.15 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 57.20% and 42.80% respectively at the end of Nov-17. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

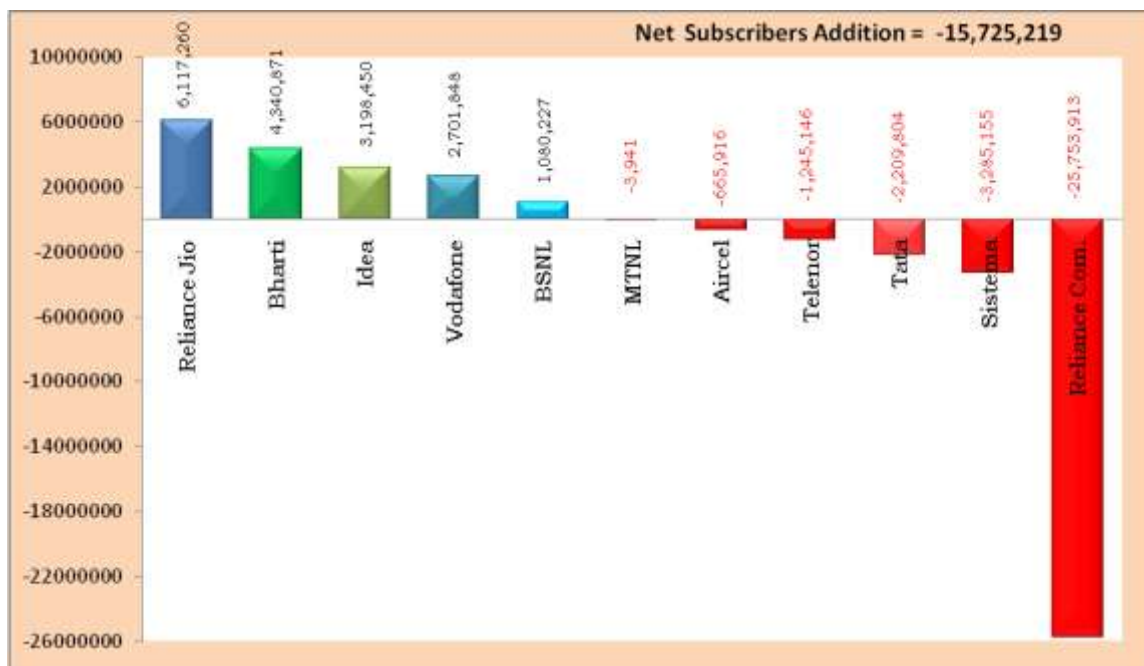
- As on 30th November, 2017, the private access service providers held 90.44% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.56%.

- 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 30th November, 2017



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

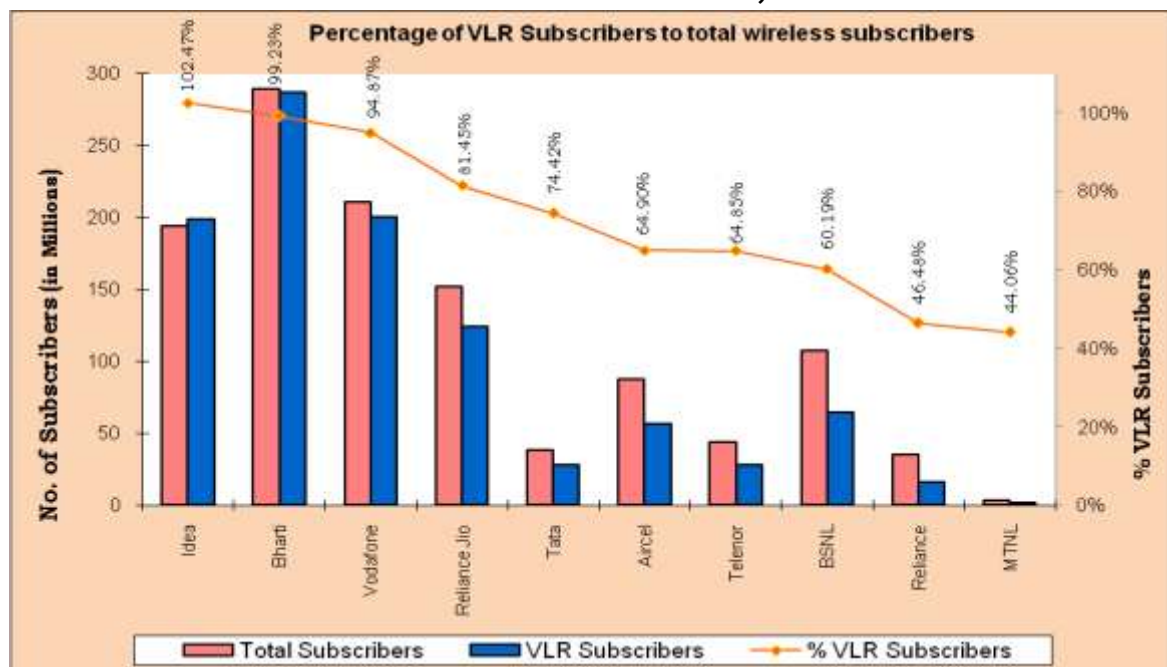


- Note:**
- On noticing that while reporting number of subscribers, some of the TSPs were deducting inactive subscribers. A Direction was issued on 18th August 2017 to TSPs to strictly adhere to the Department of Telecommunications' methodology for reporting their number of subscribers. However, some of the Telecom Service Providers are yet to comply with the Direction.
 - M/s Sistema Shyam has been merged with M/s Reliance Communications.

IV. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscribers (1,162.47 million), 1,006.40 million wireless subscribers were active on the date of peak VLR in the month of Nov-17. The proportion of active wireless subscribers was approximately 86.57% 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-17 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

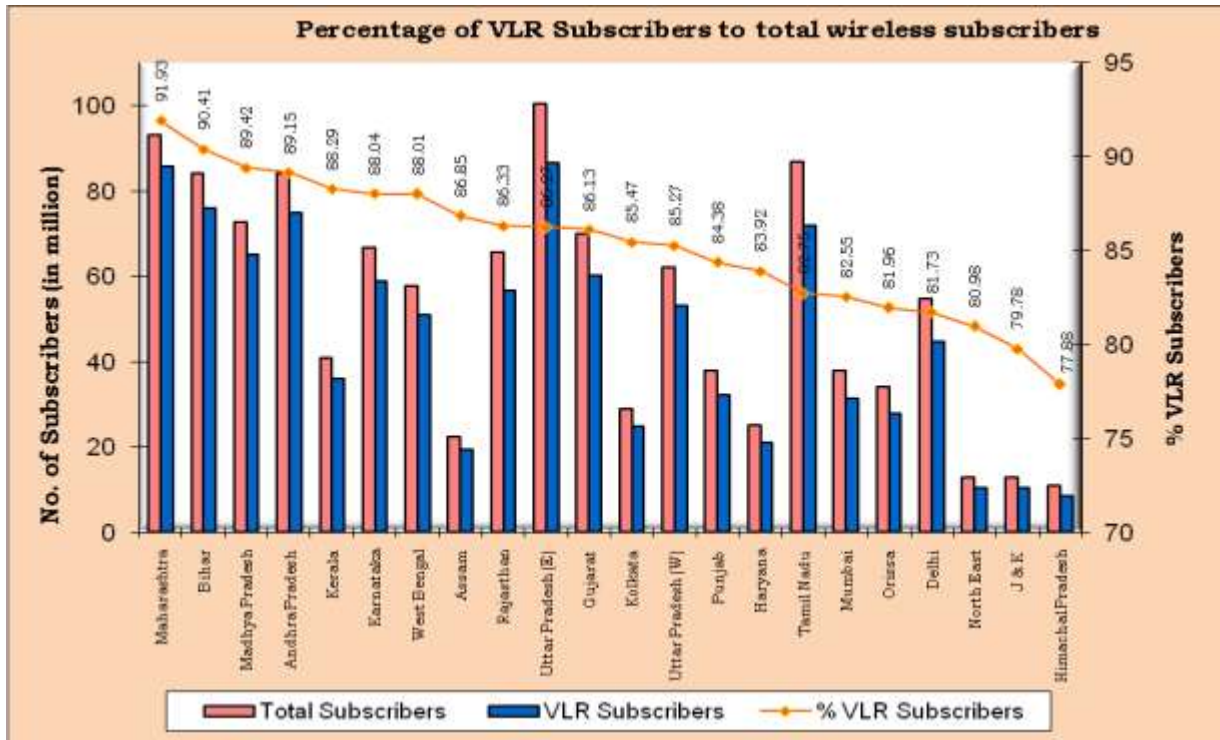
Access Service Provider-wise Percentage of VLR Subscribers in the Month of November, 2017



Note-

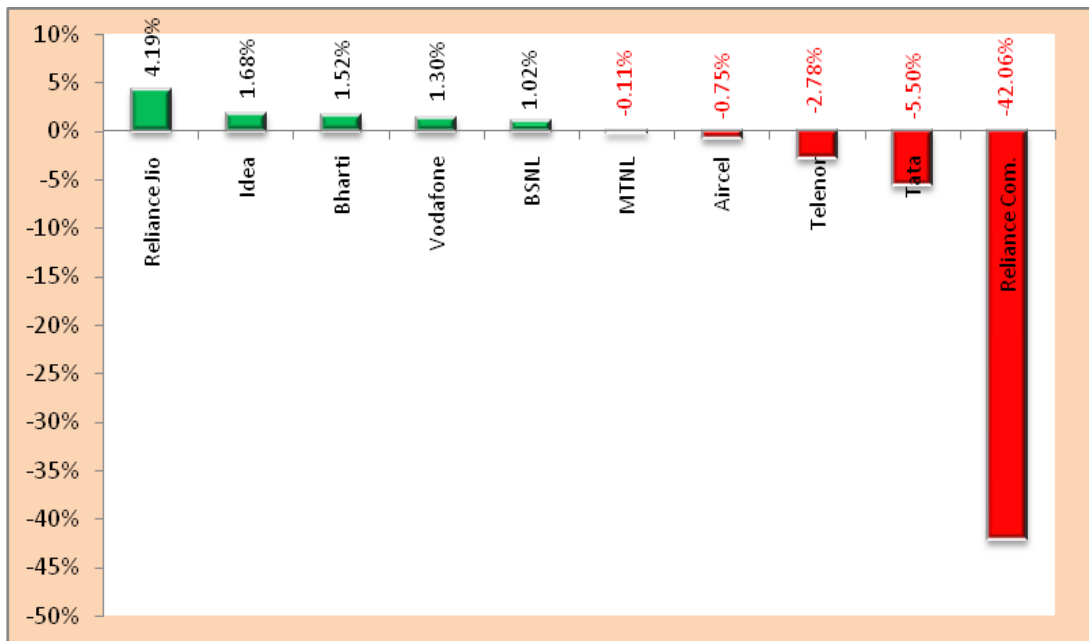
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

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



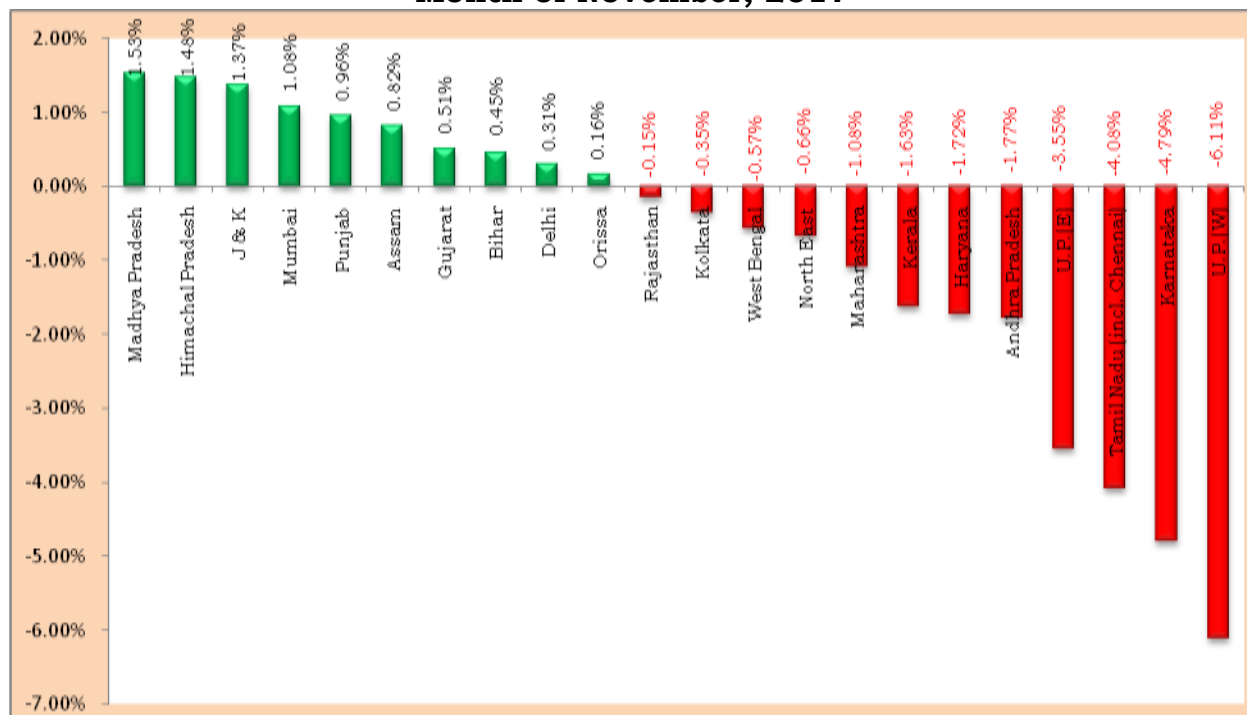
V. Growth in Wireless Subscribers

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



Note: M/s Sistema Shyam has been merged with M/s Reliance Communications.

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



- During the month of Nov-17, Madhya Pradesh service area showed maximum growth rate in wireless subscribers. However, U.P.(West) 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 Nov-17, a total of 15.99 million requests were received for MNP. With this, the cumulative MNP requests increased from 314.99 million at the end of Oct-17 to 330.98 million at the end of Nov-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 27.54 million) followed by Gujarat (about 23.33 million).
- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 34.36 million) followed by Andhra Pradesh (about 29.21 million).

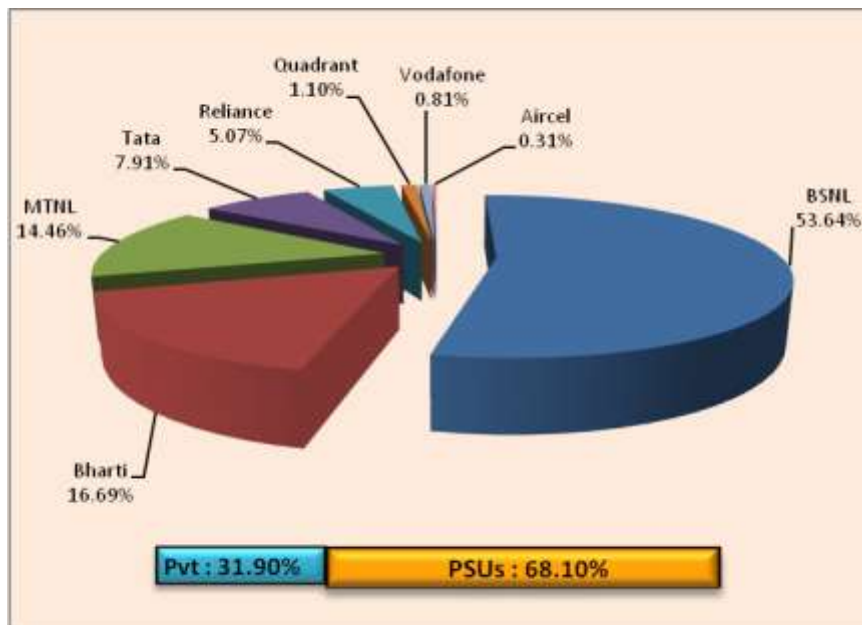
Service Area Wise MNP Status at the end of November, 2017			
Zone -I		Zone - II	
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	15528180	Andhra Pradesh	29212083
Gujarat	23332697	Assam	1936485
Haryana	12973715	Bihar	12034024
Himachal Pradesh	1530172	Karnataka	34358105
Jammu & Kashmir	320602	Kerala	8602026
Maharashtra	23198202	Kolkata	7431511
Mumbai	18206137	Madhya Pradesh	23411971
Punjab	12809443	North East	656434
Rajasthan	27543325	Orissa	6528591
Uttar Pradesh - East	17403372	Tamil Nadu	20746002
Uttar Pradesh - West	14974624	West Bengal	18243222
Total	167,820,469	Total	163,160,454
Total (Zone-I + Zone-II)		330,980,923	
Net Addition (in November, 2017)		15,987,216	

VII. Wireline Subscribers

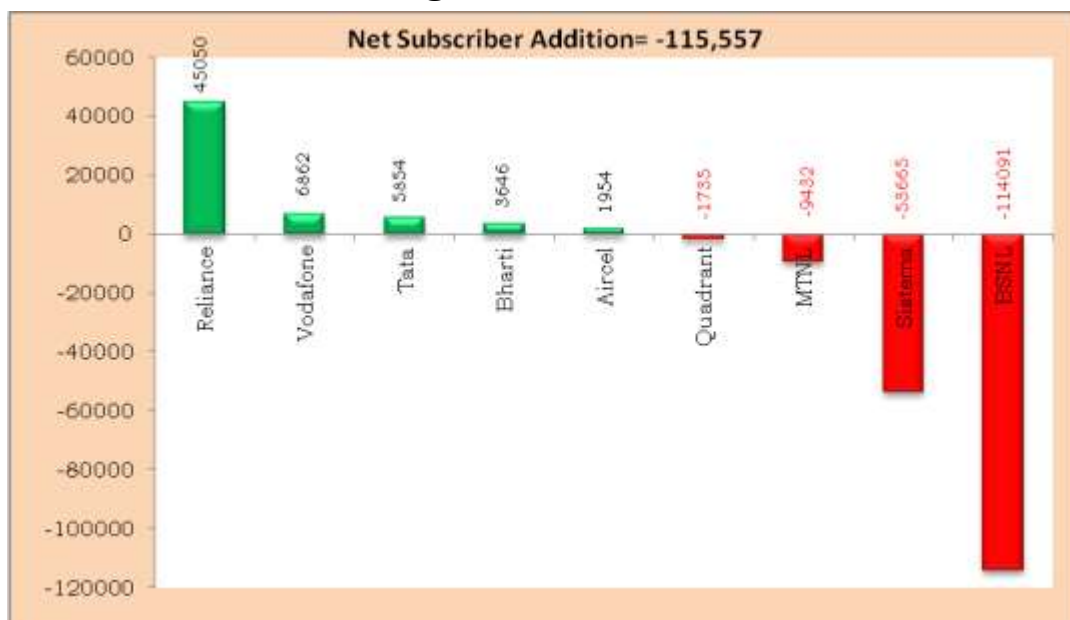
- Wireline subscribers further declined from 23.53 million at the end of Oct-17 to 23.41 million at the end of Nov-17. Net decline in the wireline subscriber base was 0.12 million with a monthly decline rate of 0.49%. The share of urban and rural subscribers in total wireline subscribers were 85.20% and 14.80% respectively at the end of Nov-17.

- The Overall Wireline Tele-density(%) declined from 1.82 at the end of Oct-17 to 1.81 at the end of Nov-17. Urban and Rural Wireline Tele-density were 4.88 and 0.39 respectively during the same period.
- BSNL and MTNL, the two PSU access service providers, held 68.10% of the wireline market share. Detailed statistics of wireline subscriber base are available at **Annexure-III**.

Access Service Provider-wise Market Shares of Wireline Subscribers as on 30th November, 2017



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



VIII. Broadband (\geq 512 Kbps download)

- As per the reports received from the service providers, the number of broadband subscribers increased from 340.16 Million at the end of Oct-17 to 350.70 million at the end of Nov-17 with a monthly growth rate of 3.10%. Segment-wise broadband subscribers and their monthly growth rates are as below:

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

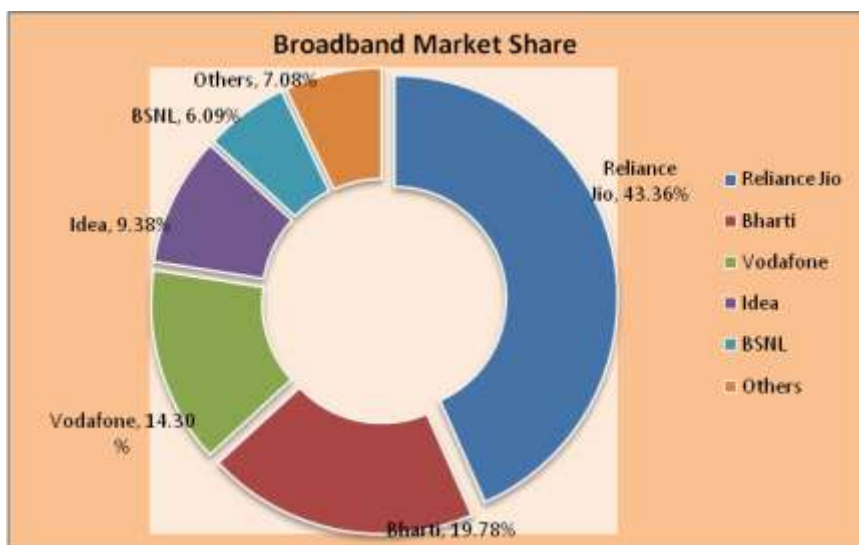
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of Nov-17
	As on 31 st October, 2017	As on 30 th November, 2017	
Wired subscribers	17.98	17.85	-0.71
Mobile devices users (Phones and dongles)	321.73	332.40	3.31
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.45	0.45	0.74
Total	340.16	350.70	3.10

- Top five service providers constituted 92.92% market share of the total broadband subscribers at the end of Nov-17. These service providers were Reliance Jio Infocom Ltd (152.08 million), Bharti Airtel (69.38 million), Vodafone (50.16 million), Idea Cellular (32.90 million) and BSNL (21.37 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 30.11.2017**



- As on 30th November, 2017, the top five Wired Broadband Service providers were BSNL (9.43 million), Bharti Airtel (2.14 million), Atria Convergence Technologies (1.27 million), MTNL (0.92 million) and Hathway Cable & Datacom (0.69 million).
- As on 30th November, 2017, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (152.08 million), Bharti Airtel (67.24 million), Vodafone (50.15 million), Idea Cellular (32.90 million) and BSNL (11.94 million).

Contact details in case of any clarification:

Shri S. K. Mishra, Pr. Advisor (F&EA),
 Telecom Regulatory Authority of India
 Mahanagar Doorsanchar Bhawan
 Jawahar Lal Nehru Marg,
 New Delhi – 110002,
 Ph: 011-23221856
 Fax: 011-23235249
 E-mail: skmishra.trai@nic.in

Authorized to issue:

(S. K. Mishra)
 Pr. Advisor (F&EA)

Wireless Subscriber Base

Annexure-I

Circle	Group											
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel	
	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17
Andhra Pradesh	26802098	27233943	3048544	784819	6725978	6741779	3294348	3138367	16489800	16522606	2539727	2503802
Assam	6678548	6729592	771216	653858	3766745	3782319			1120480	1139549	5898707	5903813
Bihar	31146582	31355658	1338960	1111679	9375648	9511730	1010376	915801	11866850	11954411	7545651	7523944
Delhi	12291328	12572987	4924326	4649018	11145861	11375983	1396073	1402015	6498679	6650103	6863331	6796403
Gujarat	9627567	9714317	907278	901080	20405419	20384158	2119845	1985028	12994995	13169384	15459	15227
Haryana	3862391	3909911	923952	173302	6129936	6159562	1663997	1588231	4951620	5012669	3092	3092
Himachal Pradesh	3134699	3315025	1273826	1079492	612743	602514	27775	25040	807660	857814	1028433	1016641
J & K	4001493	4061763	767509	755753	901109	881292			579278	573104	3328436	3373553
Karnataka	23722486	24098251	4524781	1094156	7625443	7691228	5548038	5434770	9105338	9213325	3161770	3110532
Kerala	4782893	4819002	1139831	185525	7821829	7875754	1063486	978281	11406427	11488769	332267	316408
Kolkata	5302530	5549403	2919924	2432691	5721727	5930984	2099522	1950010	2374847	2394688	4341447	4356856
Madhya Pradesh	14426790	14950434	7982670	7089676	6456693	6491679	3639853	3382682	24744517	25852556	20552	20552
Maharashtra	14576250	14761254	2539845	433532	19511244	19894584	4196902	4014976	27448007	28071878	2211506	2104820
Mumbai	7258999	7518985	3799999	3185923	9053219	9426795	2319019	2194873	4263075	4363534	2626570	2577107
North East	4427336	4378457	178269	161795	1566600	1567712			484532	488800	3416368	3339867
Orissa	11904499	11973807	1485059	1348633	4254575	4276871	1411792	1298243	1719104	1703986	4131475	4094097
Punjab	9662828	9816723	1337642	1181399	5044852	5012098	1615983	1532943	7213343	7346965	1087158	1061062
Rajasthan	21352122	21666642	3996472	3697935	11401815	11640370	621313	517144	7624901	7732998	6430401	6331127
Tamil Nadu (incl. Chennai)	19527586	19853584	4854539	956764	16330155	16533994	3135602	2876336	5897295	5923045	20776975	20691085
U.P.(E)	24866936	25208908	5251332	941904	21627152	22081845	2614123	2457128	11636569	11694964	6587306	6580078
U.P.(W)	9069352	9140527	4950628	701463	12239838	12273879	2244313	2144061	16011073	16238628	867914	840973
West Bengal	16770320	16907331	2310494	1952786	20604847	20888146	181958	158585	5630182	5673246	5040169	5027759
Total	285195633	289536504	61227096	35473183	208323428	211025276	40204318	37994514	190868572	194067022	88254714	87588798
Net Addition		4340871		-25753913		2701848		-2209804		3198450		-665916
Rural Subscribers	145033365	147591060	10179932	5444626	116380308	114746994	7556230	6858364	105155009	105473160	31498013	31421554

Wireless Subscriber Base

Annexure-I (contd.)

Circle	Group												Net Addition
	BSNL		MTNL		Telenor		Sistema		Reliance Jio		Total		
	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	
Andhra Pradesh	10043382	10061544			4463761	4392049			12121571	12634097	85529209	84013006	-1516203
Assam	1570527	1598402							2472305	2653449	22278528	22460982	182454
Bihar	4000443	4086263			8338238	8154983			9075079	9463125	83697827	84077594	379767
Delhi			2305008	2303368			346697		8798723	8987465	54570026	54737342	167316
Gujarat	5364141	5437922			7573167	7418197	67127		10607243	11012866	69682241	70038179	355938
Haryana	4124570	4190143							3832658	4017332	25492216	25054242	-437974
Himachal Pradesh	2360314	2422013							1545153	1632045	10790603	10950584	159981
J & K	1542153	1550866							1700994	1800670	12820972	12997001	176029
Karnataka	7131085	7224695					487924		8781255	8864453	70088120	66731410	-3356710
Kerala	10052112	10207824					146146		4727684	4926286	41472675	40797849	-674826
Kolkata	1191414	1248694					268579		4824279	5079359	29044269	28942685	-101584
Madhya Pradesh	5615807	5762399							8760490	9194362	71647372	72744340	1096968
Maharashtra	6859084	6946141			6302031	6080995			10586110	10902292	94230979	93210472	-1020507
Mumbai			1290260	1287959					6881101	7340896	37492242	37896072	403830
North East	1531747	1531170							1266623	1318174	12871475	12785975	-85500
Orissa	5227498	5255551							3796281	4034309	33930283	33985497	55214
Punjab	5026587	5083743							6661814	6975582	37650207	38010515	360308
Rajasthan	5662401	5641448					790092		7787122	8340222	65666639	65567886	-98753
Tamil Nadu (incl. Chennai)	9896001	9916053					367252		9764500	10102516	90549905	86853377	-3696528
U.P.(E)	11764103	11777028			10678790	10247885			9177224	9517181	104203535	100506921	-3696614
U.P.(W)	5728733	5824153			7511937	7328669	74799		7582225	7740807	66280812	62233160	-4047652
West Bengal	1721166	1727443					736539		5209841	5540047	58205516	57875343	-330173
Total	106413268	107493495	3595268	3591327	44867924	43622778	3285155	0	145960275	152077535	1178195651	1162470432	-15725219
Net Addition		1080227		-3941		-1245146		-3285155		6117260			-15725219
Rural Subscribers	34458258	34854475	48175	48140	12891545	12492905	721279	0	36757271	38598372	500679385	497529650	-3149735

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

Annexure-II

Circle	Aircel	Bharti	BSNL	Idea	MTNL	Reliance	Reliance Jio	Tata	Telenor	Vodafone	Total
Andhra Pradesh	58.08	99.92	72.05	104.17		40.58	80.72	80.32	61.48	89.49	89.15
Assam	78.97	96.89	66.84	100.48		2.58	89.26			98.54	86.85
Bihar	82.88	98.09	64.42	101.78		9.47	91.58	72.27	71.18	94.48	90.41
Delhi	55.15	97.99		100.39	35.67	56.09	78.74	43.86		95.59	81.73
Gujarat	1832.54	105.15	53.02	105.01		30.84	77.65	50.15	51.75	95.45	86.13
Haryana	0.26	97.43	46.55	104.78		22.36	68.06	77.04		97.66	83.92
Himachal Pradesh	47.20	96.61	53.92	106.27		52.04	73.15	15.97		144.15	77.88
J & K	67.51	97.73	62.40	104.45		27.53	80.86			101.22	79.78
Karnataka	55.50	99.84	61.51	100.95		28.44	78.44	79.72		99.08	88.04
Kerala	59.10	99.83	68.37	101.30		34.43	79.00	75.32		97.94	88.29
Kolkata	64.45	97.68	69.25	99.72		74.97	78.12	81.71		98.98	85.47
Madhya Pradesh	1.14	96.60	61.33	102.53		70.58	85.40	69.06		82.73	89.42
Maharashtra	47.38	104.87	60.00	102.98		28.48	88.23	78.16	61.37	98.12	91.93
Mumbai	56.31	99.09		91.36	59.08	53.39	82.11	71.81		88.35	82.55
North East	62.29	95.05	70.59	99.21		3.45	83.77			91.66	80.98
Orissa	53.05	97.16	69.72	109.32		2.77	86.86	71.62		94.73	81.96
Punjab	55.17	99.43	52.16	99.92		36.62	78.17	74.22		93.97	84.38
Rajasthan	49.12	97.68	56.48	103.02		48.61	81.25	214.09		98.76	86.33
Tamil Nadu (incl. Chennai)	67.45	97.08	64.28	101.05		37.53	78.09	64.38		97.88	82.75
U.P. (E)	64.38	103.63	47.10	107.50		32.07	89.49	78.63	69.36	92.23	86.27
U.P. (W)	74.17	96.97	47.44	99.80		33.48	74.71	72.79	69.70	97.14	85.27
West Bengal	75.01	98.50	80.34	104.36		8.07	77.22	15.31		89.74	88.01
Total	64.90	99.23	60.19	102.47	44.06	46.48	81.45	74.42	64.85	94.87	86.57

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	
	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17
Andhra Pradesh	1108418	1093166			164587	164866	73713	73411	176179	175525
Assam	140456	139575								
Bihar	252771	251731					6402	6246	12076	12043
Delhi			1566316	1561699	1307425	1308431	165382	163814	139820	141137
Gujarat	1049720	1047333			77820	77929	70780	70225	90684	91318
Haryana	248,540	245,913			22495	22547	3664	3628	37919	38108
Himachal Pradesh	124,937	123,627					3891	3889	2488	2365
J & K	120,305	119,332								
Karnataka	1152493	1136151			635040	637481	155607	154853	264834	266777
Kerala	1905039	1894540			57710	57875	32396	32093	18988	18832
Kolkata	576887	574348			121189	121984	67833	67428	49857	50040
Madhya Pradesh	691778	688000			267637	265692	19449	19337	15339	15163
Maharashtra	1311363	1298111			79646	80044	78110	77078	307290	308087
Mumbai			1829547	1824732	359619	359715	251102	249860	555379	556928
North East	113936	113931								
Orissa	261733	261487					3234	3189	8281	8283
Punjab	500047	492007			119480	119707	19638	18963	15742	15779
Rajasthan	531471	524264			49219	49783	19297	72843	12217	12284
Tamil Nadu (incl. Chennai)	1599229	1576915			554933	554402	129261	128269	112970	113666
U.P.(E)	366057	365652			64100	64137	34109	33869	13504	13572
U.P.(W)	320246	317160			22600	22553	7039	6967	9834	9788
West Bengal	297165	295257					1867	1862	3613	3173
Total	12672591	12558500	3395863	3386431	3903500	3907146	1142774	1187824	1847014	1852868
Net Addition		-114091		-9432		3646		45050		5854
Rural Subscribers	3386305	3349468	0	0	0	0	1669	11077	54554	54676

Wireline Subscriber Base

Annexure-III (Contd.)

Circle	Group										Net Addition
	Quadrant		Sistema		Vodafone		Aircel		Total		
	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	Oct-17	Nov-17	
Andhra Pradesh					25410	25950	5343	5346	1553650	1538264	-15386
Assam					2520	2580			142976	142155	-821
Bihar					1920	1890			273169	271910	-1259
Delhi					29960	31410	15352	14895	3224255	3221386	-2869
Gujarat					9105	9706	1604	1836	1299713	1298347	-1366
Haryana									312618	310196	-2422
Himachal Pradesh					60	60			131376	129941	-1435
J & K									120305	119332	-973
Karnataka					29995	31075	32048	32132	2270017	2258469	-11548
Kerala					2160	2310			2016293	2005650	-10643
Kolkata					5610	6270	2616	2620	823992	822690	-1302
Madhya Pradesh					570	570			994773	988762	-6011
Maharashtra					14914	15305	501	564	1791824	1779189	-12635
Mumbai					25388	26328	10812	10856	3031847	3028419	-3428
North East					120	120			114056	114051	-5
Orissa					1350	1530			274598	274489	-109
Punjab	260217	258482			1110	1140	31	31	916265	906109	-10156
Rajasthan			53665		5670	5700	1580	3559	673119	668433	-4686
Tamil Nadu (incl. Chennai)					13970	14750			2410363	2388002	-22361
U.P.(E)					9070	9070	0	2	486840	486302	-538
U.P.(W)					4050	4050	0		363769	360518	-3251
West Bengal					60	60			302705	300352	-2353
Total	260217	258482	53665	0	183012	189874	69887	71841	23528523	23412966	-115557
Net Addition		-1735		-53665		6862		1954		-115557	
Rural Subscribers	57352	50013	9380	0	0	0	0	0	3509260	3465234	-44026

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.