

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 28<sup>th</sup> November, 2018

(www.traigov.in)

**Highlights of Telecom Subscription Data as on 30<sup>th</sup> September, 2018**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
<b>Total Telephone Subscribers</b> (Million)	<b>1169.29</b>	<b>22.11</b>	<b>1191.40</b>
Net Addition in September, 2018 (Million)	2.40	-0.07	2.32
Monthly Growth Rate	0.21%	-0.34%	0.20%
<b>Urban Telephone Subscribers</b> (Million)	<b>647.70</b>	<b>18.95</b>	<b>666.64</b>
Net Addition in September, 2018 (Million)	-0.10	-0.05	-0.15
Monthly Growth Rate	-0.02%	-0.28%	-0.02%
<b>Rural Telephone Subscribers</b> (Million)	<b>521.59</b>	<b>3.17</b>	<b>524.76</b>
Net Addition in September, 2018 (Million)	2.49	-0.02	2.47
Monthly Growth Rate	0.48%	-0.65%	0.47%
<b>Overall Tele-density*(%)</b>	<b>89.51</b>	<b>1.69</b>	<b>91.20</b>
Urban Tele-density*(%)	156.23	4.57	160.79
Rural Tele-density*(%)	58.49	0.36	58.85
Share of Urban Subscribers	55.39%	85.68%	55.95%
Share of Rural Subscribers	44.61%	14.32%	44.05%
<b>Broadband Subscribers</b> (Million)	<b>463.71</b>	<b>17.99</b>	<b>481.70</b>

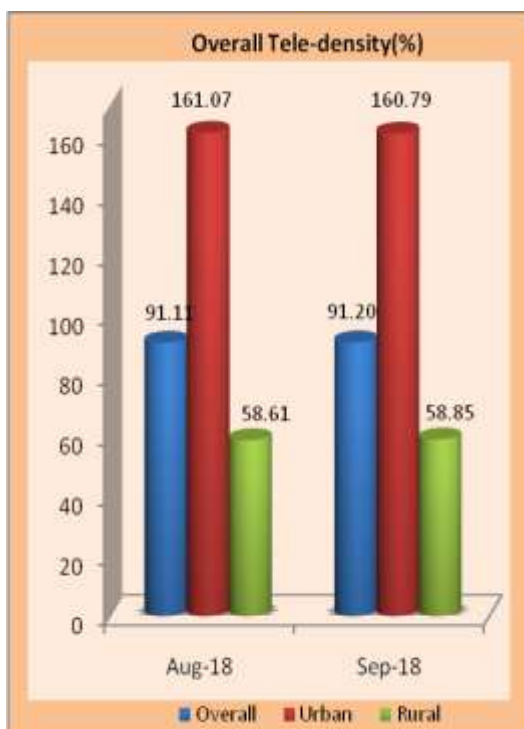
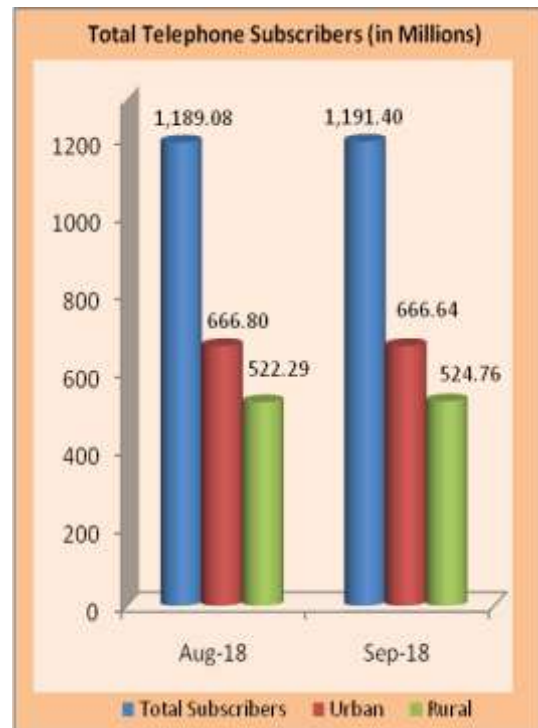
- ❖ In the month of September, 2018, 5.03 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 395.72 million at the end of Aug-18 to 400.76 million at the end of Sep-18, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in September, 2018 was 1,013.23 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.

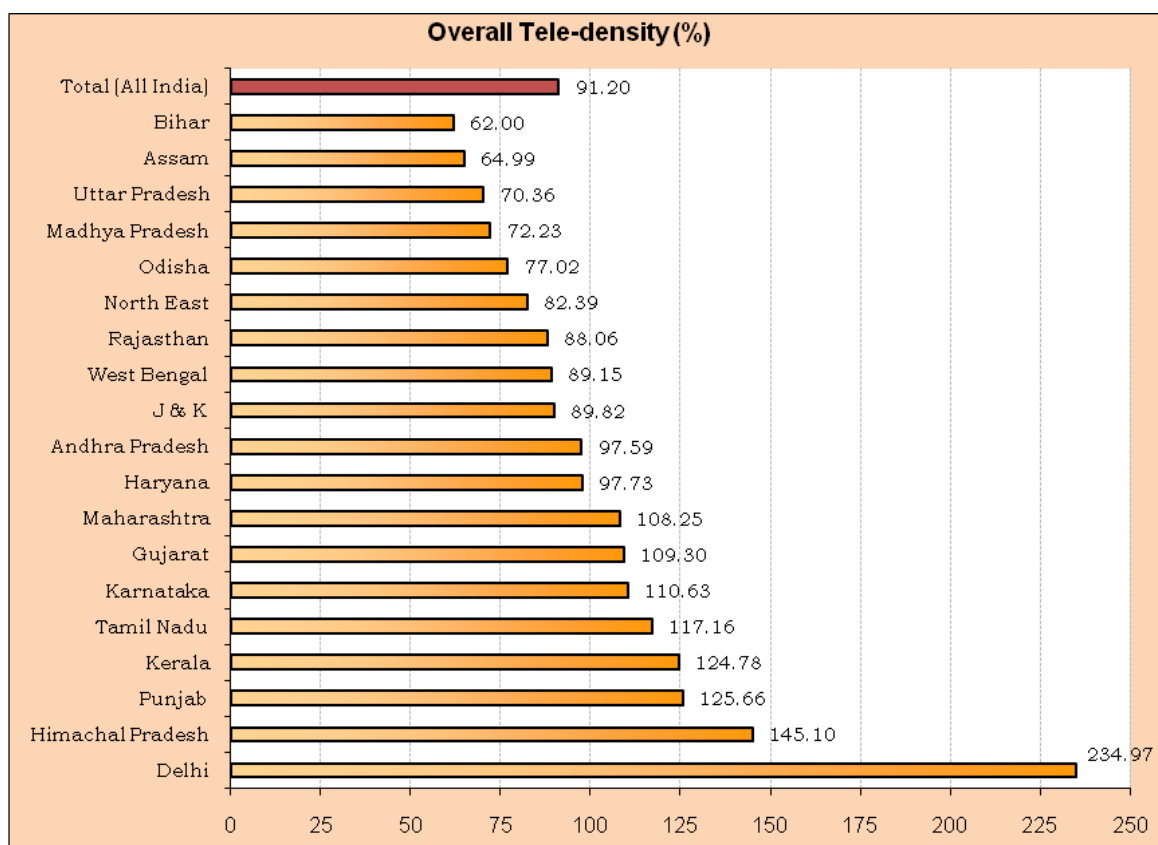
## I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,189.08 million at the end of Aug-18 to 1,191.40 million at the end of Sep-18, thereby showing a monthly growth rate of 0.20%. The urban subscription slightly declined from 666.80 million at the end of Aug-18 to 666.64 million at the end of Sep-18, however the rural subscription increased from 522.29 million to 524.76 million during the same period. The monthly growth rates of urban and rural subscription were -0.02% and 0.47% respectively during the month of Sep-18.



- The overall Tele-density in India increased from 91.11 at the end of Aug-18 to 91.20 at the end of Sep-18. The Urban Tele-density declined from 161.07 at the end of Aug-18 to 160.79 at the end of Sep-18, however Rural Tele-density increased from 58.61 at the end of Aug-18 to 58.85 at the end of Sep-18. The share of urban and rural subscribers in total number of telephone subscribers at the end of Sep-18 was 55.95% and 44.05% respectively.

## Overall Tele-density (Circle/State Wise) – As on 30<sup>th</sup> September, 2018



### 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 September, 2018

Circle Category	Net additions in the month of September, 2018		Telephone Subscriber base as on 30 <sup>th</sup> September, 2018	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-21,640	55,777	8,705,410	401,828,296
Circle B	-24,269	2,281,268	5,548,675	477,356,324
Circle C	-13,597	-319,380	957,069	175,599,745
Metro	-15,110	377,614	6,901,599	114,506,818
<b>All India</b>	<b>-74,616</b>	<b>2,395,279</b>	<b>22,112,753</b>	<b>1,169,291,183</b>

### Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of September, 2018

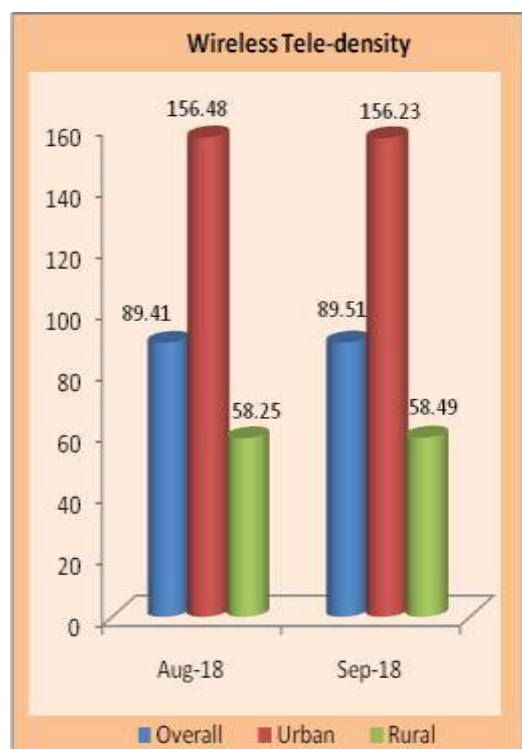
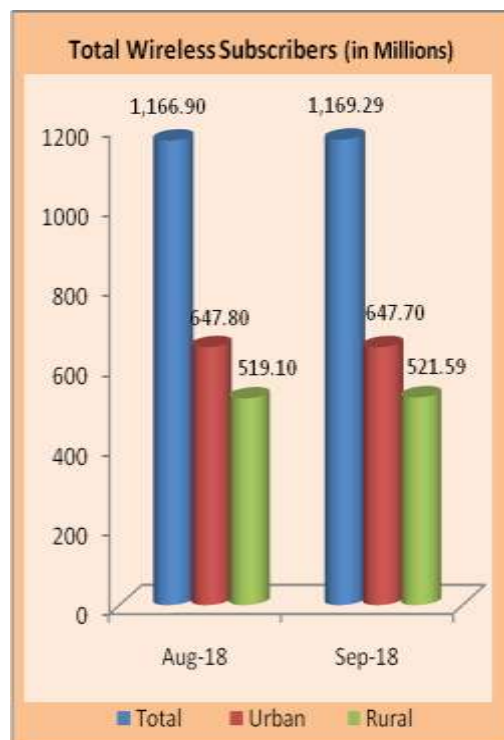
Circle Category	Monthly growth rate (%) (Aug-18 to Sep-18)		Yearly growth rate (%) (Sep-17 to Sep-18)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-0.25	0.01	-7.26	-2.06
Circle B	-0.44	0.48	-9.26	0.86
Circle C	-1.40	-0.18	-10.35	-1.07
Metro	-0.22	0.33	-2.81	-6.12
<b>All India</b>	<b>-0.34</b>	<b>0.21</b>	<b>-6.58</b>	<b>-1.16</b>

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 all categories except Category 'C' showed positive growth in their subscriber base during the month of Sep-18. However, on yearly (Y-o-Y) basis, circles of all categories except Category 'B', showed negative growth in wireless subscriber base during the same period.
- In Wireline segment, Circles of all Categories showed monthly and yearly (Y-o-Y basis) decline in their number of wireline subscribers during the month of Sep-18.

### III. Wireless Subscribers

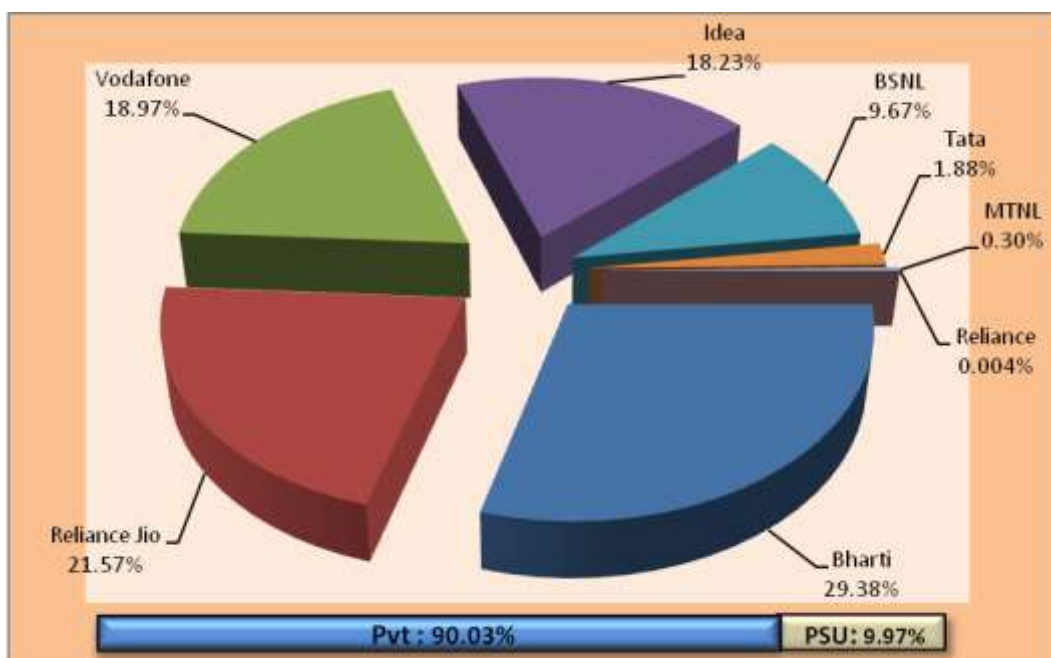
- Total wireless subscribers (GSM, CDMA & LTE) increased from 1,166.90 million at the end of Aug-18 to 1,169.29 million at the end of Sep-18, thereby registering a monthly growth rate of 0.21%. The Wireless subscription in urban areas slightly declined from 647.80 million at the end of Aug-18 to 647.70 million at the end of Sep-18, however wireless subscriptions in rural areas increased from 519.10 million to 521.59 million during the month. The monthly growth rates of urban and rural wireless subscription were -0.02% and 0.48% respectively.



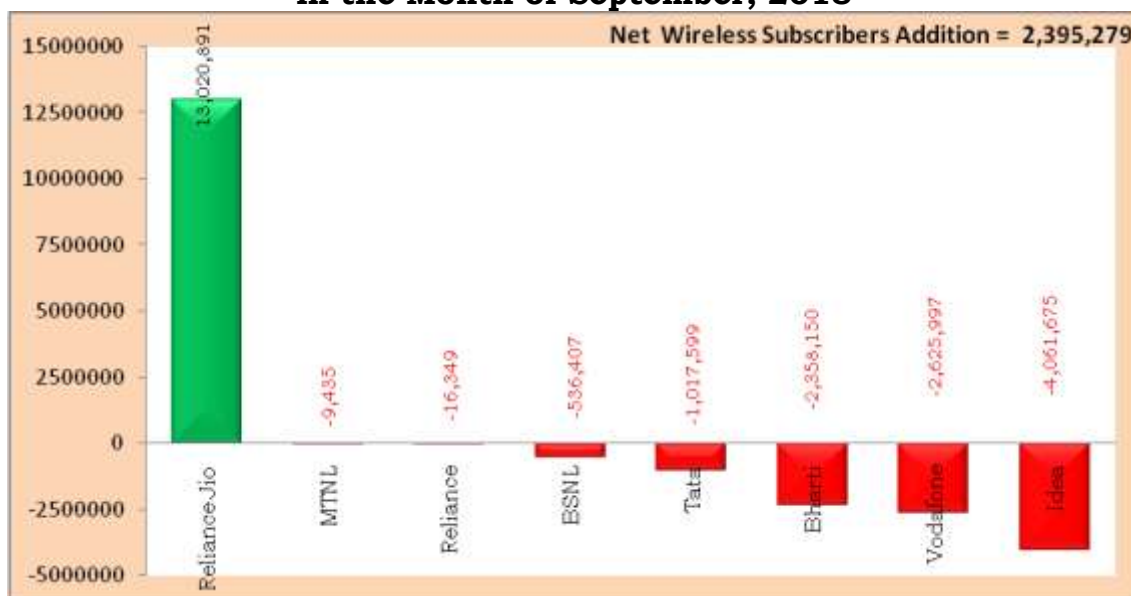
- The Wireless Tele-density in India increased from 89.41 at the end of Aug-18 to 89.51 at the end of Sep-18. The Urban Wireless Tele-density declined from 156.48 at the end of Aug-18 to 156.23 at the end of Sep-18, however Rural Wireless Tele-density increased from 58.25 to 58.49 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 55.39% and 44.61% respectively at the end of Sep-18. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 30<sup>th</sup> September, 2018, the private access service providers held 90.03% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.97%. 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 30<sup>th</sup> September, 2018**



**Net Additions in Wireless Subscribers of Access Service Providers in the Month of September, 2018**

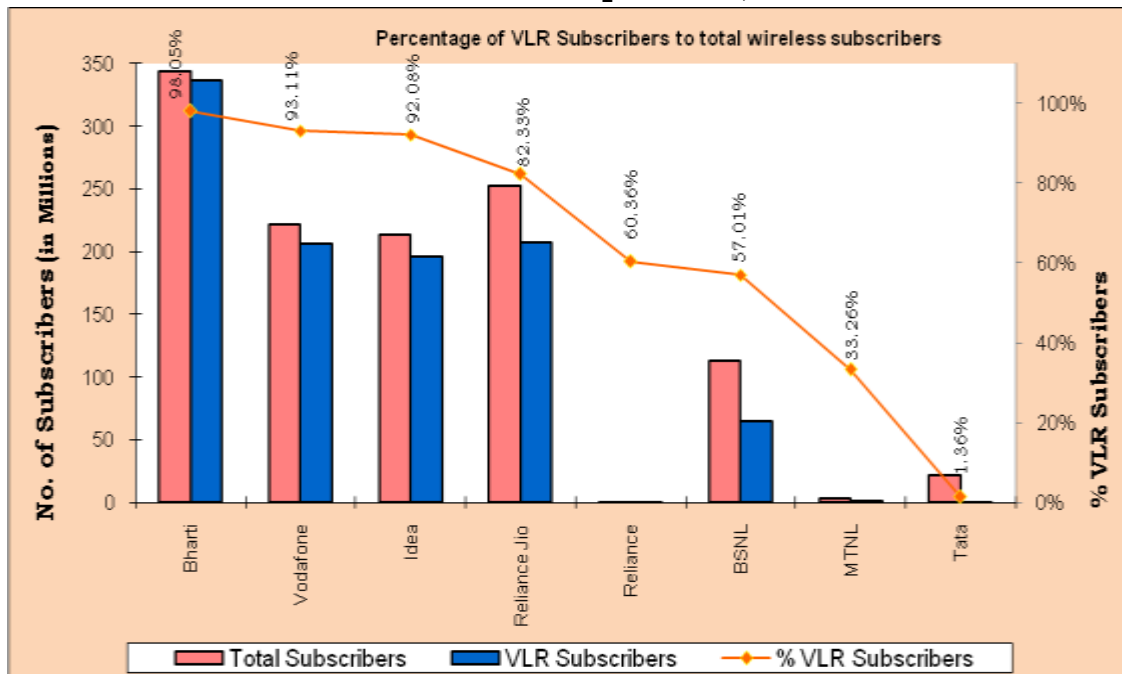


**Note:** 1. On noticing that while reporting number of subscribers, some of the TSPs were deducting inactive subscribers. A Direction was issued on 18<sup>th</sup> August 2017 to TSPs to strictly adhere to the Department of Telecommunications' methodology for reporting their number of subscribers. However, some of the Telecom Service Providers are yet to comply with the Direction.

#### IV. Active Wireless Subscribers (VLR Data)

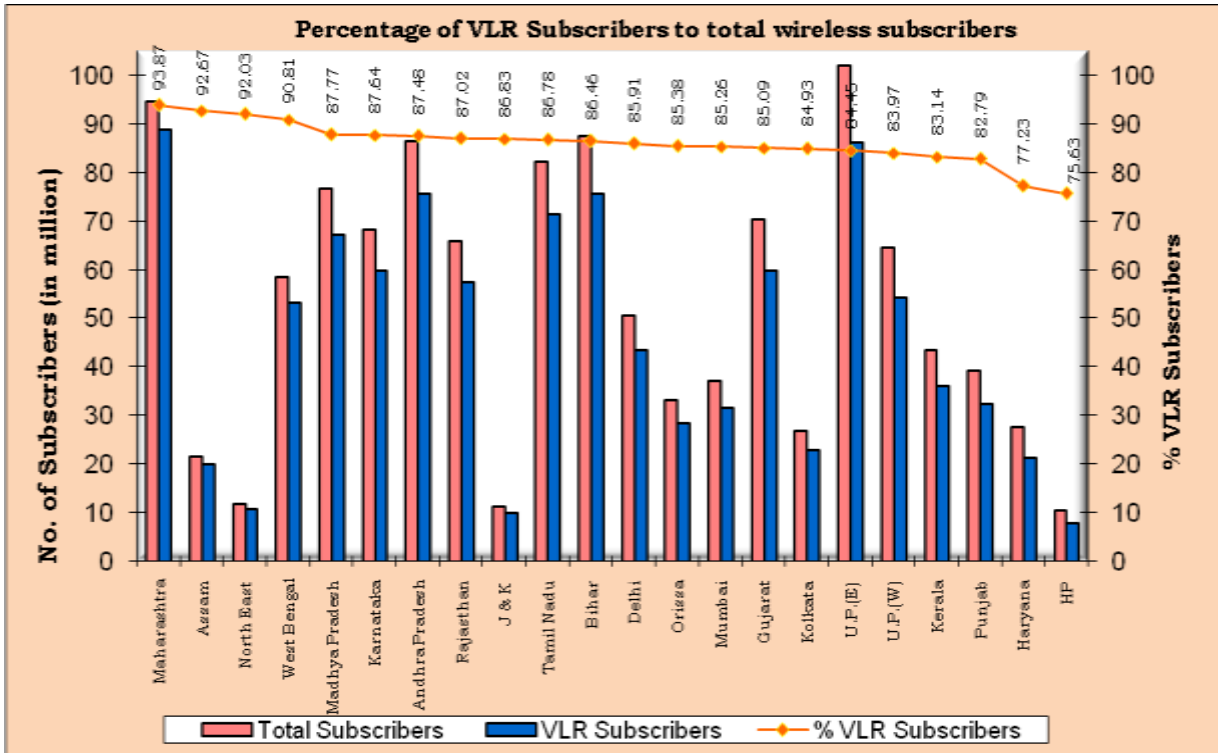
- Out of the total wireless subscribers (1,169.29 million), 1,013.23 million wireless subscribers were active on the date of peak VLR in the month of Sep-18. The proportion of active wireless subscribers was approximately 86.65% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of Sep-18 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 September, 2018**



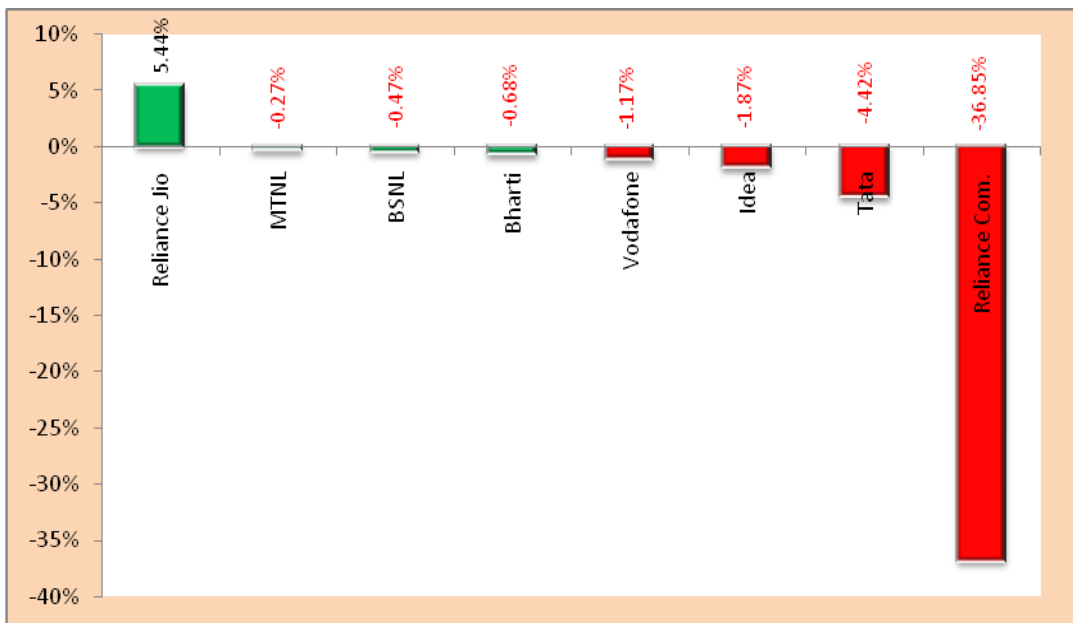
- Bharti Airtel has the maximum proportion (98.05%) of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of Sep-18.

### Service Area wise percentage of VLR Subscribers in the Month of September, 2018



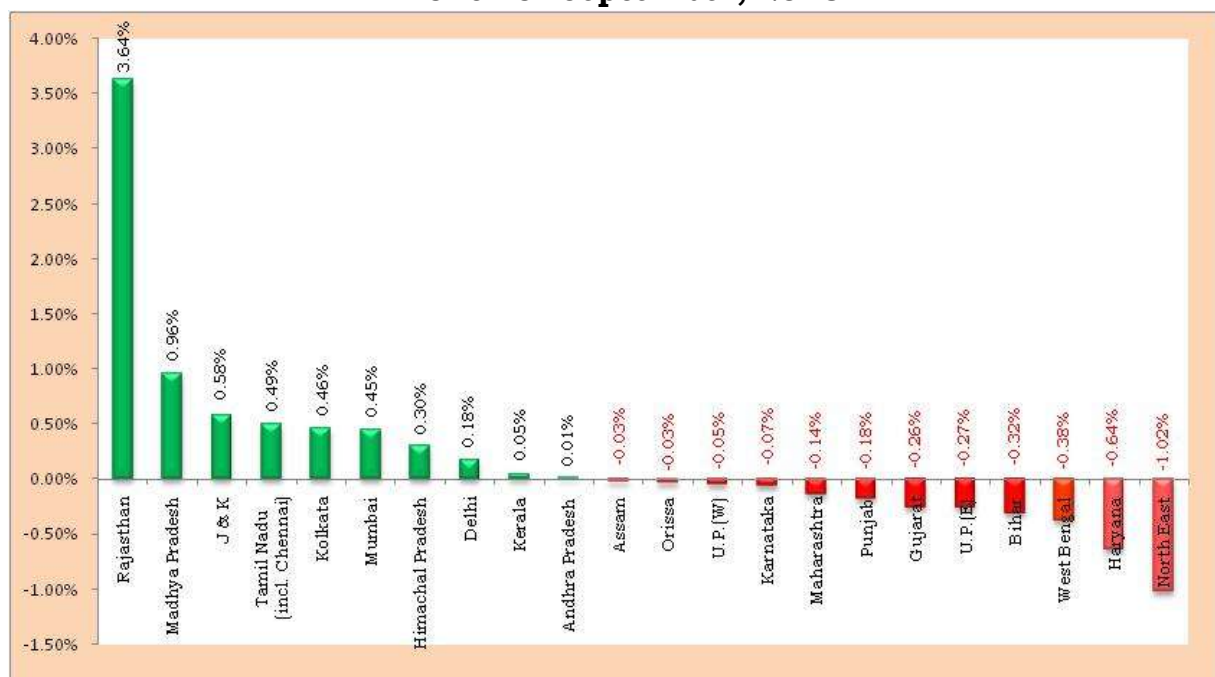
### V. Growth in Wireless Subscribers

#### Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the Month of September, 2018





### Service Area-wise Monthly Growth Rate of Wireless Subscribers in the Month of September, 2018



- During the month of September, 2018, Rajasthan service area showed maximum monthly growth rate of 3.64% and North-East service area showed maximum monthly decline rate of 1.02% in their wireless subscriber base.

### 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 Sep-18, a total of 5.03 million requests were received for MNP. Out of total 5.03 million requests, 2.91 million requests received from Zone-I and 2.12 million requests received from Zone-II. The cumulative MNP requests increased from 395.72 million at the end of Aug-18 to 400.76 million at the end of Sep-18, 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 32.65 million) followed by Maharashtra (about 28.26 million) service area. In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 38.04 million) followed by Tamilnadu (about 34.05 million).

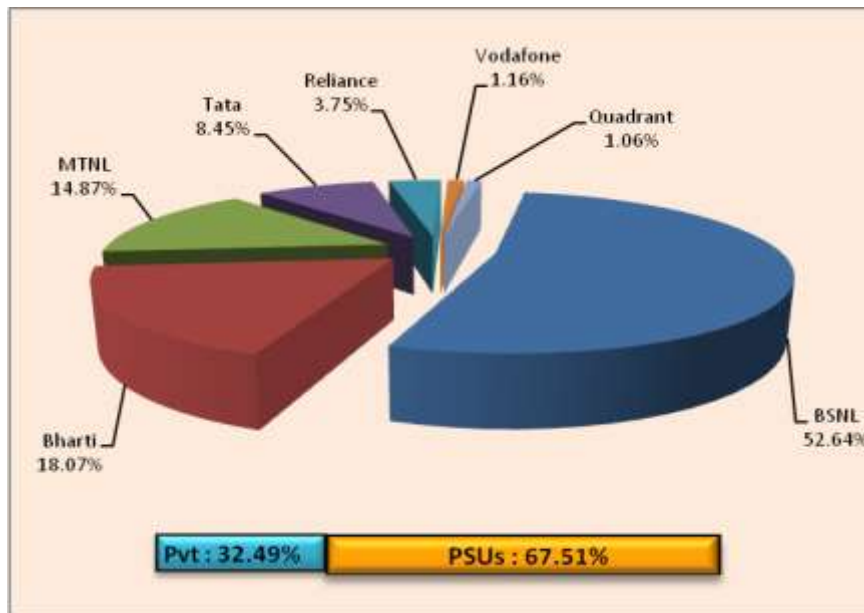
<b>Service Area Wise MNP Status</b>					
<b>Zone - 1</b>			<b>Zone - 2</b>		
<b>Service Area</b>	<b>Number of Porting Requests (in Million)</b>		<b>Service Area</b>	<b>Number of Porting Requests (in Million)</b>	
	<b>Aug-18</b>	<b>Sep-18</b>		<b>Aug-18</b>	<b>Sep-18</b>
Delhi	20.08	20.42	Andhra Pradesh	33.38	33.94
Gujarat	25.85	26.31	Assam	3.19	3.22
Haryana	14.37	14.51	Bihar	15.06	15.44
Himachal Pradesh	1.90	1.92	Karnataka	37.74	38.04
Jammu & Kashmir	0.92	0.94	Kerala	9.54	9.64
Maharashtra	27.71	28.26	Kolkata	9.76	9.83
Mumbai	20.77	20.95	Madhya Pradesh	26.00	26.23
Punjab	14.95	15.15	North East	1.26	1.27
Rajasthan	32.41	32.65	Orissa	7.83	7.90
U.P.(East)	21.55	21.89	Tamil Nadu	33.76	34.05
U.P.(West)	17.25	17.67	West Bengal	20.45	20.54
<b>Total</b>	<b>197.75</b>	<b>200.66</b>	<b>Total</b>	<b>197.97</b>	<b>200.09</b>
<b>Total (Zone-1 + Zone-2)</b>				<b>395.72</b>	<b>400.76</b>
<b>Net Addition (September, 2018)</b>				<b>5.03</b>	

## VII. Wireline Subscribers

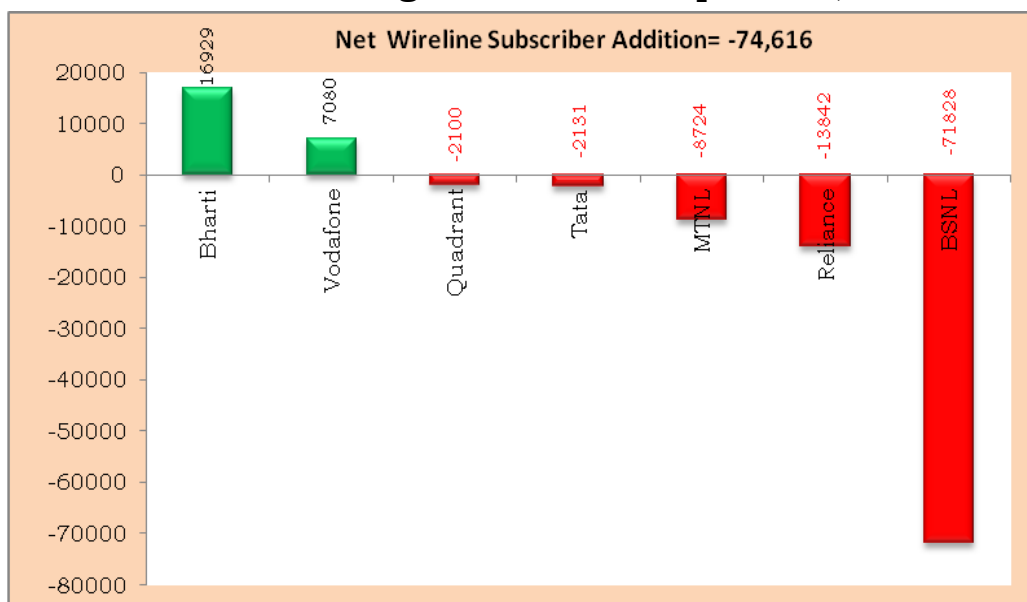
- Wireline subscribers further declined from 22.19 million at the end of Aug-18 to 22.11 million at the end of Sep-18. Net decline in the wireline subscriber base was 0.08 million with a monthly decline rate of 0.34%. The share of urban and rural subscribers in total wireline subscribers were 85.68% and 14.32% respectively at the end of Sep-18.

- The Overall Wireline Tele-density(%) declined from 1.70 at the end of Aug-18 to 1.69 at the end of Sep-18. Urban and Rural Wireline Tele-density were 4.57 and 0.36 respectively during the same period.
- BSNL and MTNL, the two PSU access service providers, held 67.51% 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 30<sup>th</sup> September, 2018**



**Access Service Provider-wise Net Additions/declines in Wireline Subscribers during the Month of September, 2018**



### VIII. Broadband ( $\geq$ 512 Kbps download)

- As per the reports received from 308 operators, the number of broadband subscribers increased from 463.66 million at the end of Aug-18 to 481.70 million at the end of Sep-18 with a monthly growth rate of 3.89%. Segment-wise broadband subscribers and their monthly growth rates are as below:

#### Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of September, 2018

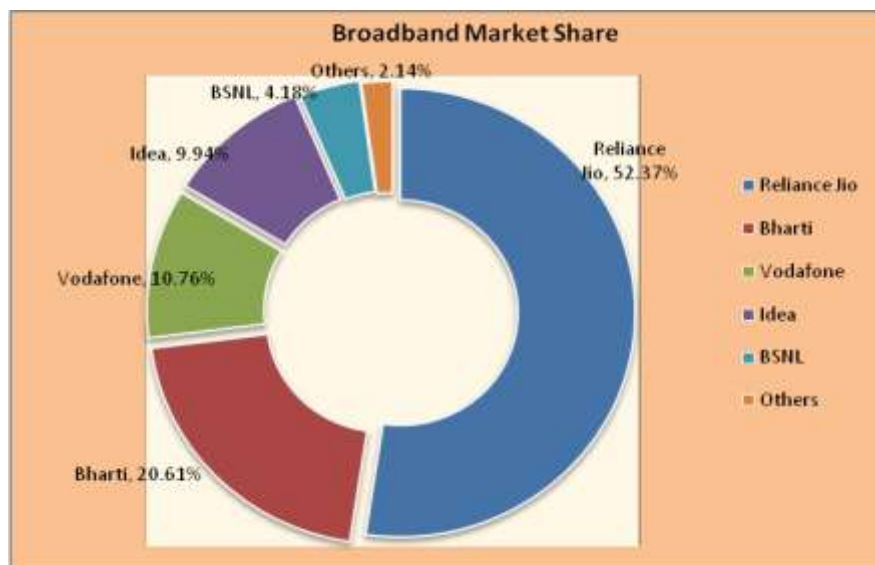
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of Sep18
	As on 31 <sup>st</sup> August, 2018	As on 30 <sup>th</sup> September, 2018	
Wired subscribers	18.02	17.99	-0.18%
Mobile devices users (Phones and dongles)	445.18	462.89	3.98%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.45	0.82	81.67%
<b>Total</b>	<b>463.65</b>	<b>481.70</b>	<b>3.89%</b>

- Top five service providers constituted 97.86% market share of the total broadband subscribers at the end of Sep-18. These service providers were Reliance Jio Infocomm Ltd (252.25 million), Bharti Airtel (99.29 million), Vodafone (51.82 million), Idea Cellular (47.90 million) and BSNL (20.12 million).

Note: 1. 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 30.09.2018**



- As on 30<sup>th</sup> September, 2018, the top five Wired Broadband Service providers were BSNL (9.15 million), Bharti Airtel (2.24 million), Atria Convergence Technologies (1.36 million), MTNL (0.80 million) and Hathway Cable & Datacom (0.75 million).
- As on 30<sup>th</sup> September, 2018, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (252.25 million), Bharti Airtel (97.05 million), Vodafone (51.81 million), Idea Cellular (47.89 million) and BSNL (10.97 million).

Contact details in case of any clarification:

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Authorized to issue:

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

## Wireless Subscriber Base

Annexure-I

Circle	Group									
	Bharti		Reliance Com.		Vodafone		Tata		Idea	
	Aug-18	Sep-18	Aug-18	Sep-18	Aug-18	Sep-18	Aug-18	Sep-18	Aug-18	Sep-18
<b>Andhra Pradesh</b>	30176360	30026566	2855	2623	6127139	5917224	2025038	1931249	18249733	18060586
<b>Assam</b>	8447074	8418266			4460812	4406691			1473777	1369539
<b>Bihar</b>	40092711	39593326	96	102	10611431	10375094	420861	386772	14884304	14661777
<b>Delhi</b>	15158137	15172046	11121	6424	12486379	12494486	188972	137248	7353323	7234188
<b>Gujarat</b>	12647157	12449875	1699	287	20119937	20010367	1115998	1066720	14846842	14553820
<b>Haryana</b>	3960914	3869469	57	76	6541960	6399044	1028187	981753	5529778	5330093
<b>Himachal Pradesh</b>	3680320	3657922	70	72	529875	501889	7017	6073	1024380	993491
<b>J &amp; K</b>	5640905	5659892			837109	809122			705932	674860
<b>Karnataka</b>	27208845	27196971	4121	3743	7662144	7529192	3667930	3533210	9644127	9376999
<b>Kerala</b>	5090507	5097537	1746	260	7800438	7745232	421633	390245	12792003	12757000
<b>Kolkata</b>	6508881	6480384	554	45	7049849	7064615	1253740	1214176	3038176	2959917
<b>Madhya Pradesh</b>	15922610	15822548	2057	498	6005007	5598615	2313921	2222462	28629423	28188196
<b>Maharashtra</b>	16852234	16649830	1693	982	20368907	20112179	2177321	2024488	30619163	30158495
<b>Mumbai</b>	8364658	8389788	8949	6989	11189417	11154461	1155303	1068859	4844301	4826219
<b>North East</b>	5416887	5387075			1850027	1834157			553391	519815
<b>Orissa</b>	13256695	13194247	48	47	4600382	4448021	689966	646536	2224299	2135684
<b>Punjab</b>	10494593	10450837	498	84	4597490	4481132	1065075	1029811	7750845	7609769
<b>Rajasthan</b>	24044239	23850722	1418	248	12249941	12005472	178259	162978	8309620	8036988
<b>Tamil Nadu (incl. Chennai)</b>	25981627	26015186	6281	4806	20185091	20124422	1774930	1706322	6477340	6339257
<b>U.P.(E)</b>	33640050	33187047	842	470	24846414	24739638	1886681	1889481	13538594	13100928
<b>U.P.(W)</b>	14407034	14213444	65	59	12666318	12550108	1570169	1530798	18025864	17771069
<b>West Bengal</b>	18889057	18740367	192	198	21697579	21556488	57568	51789	6653217	6448067
<b>Total</b>	<b>345881495</b>	<b>343523345</b>	<b>44362</b>	<b>28013</b>	<b>224483646</b>	<b>221857649</b>	<b>22998569</b>	<b>21980970</b>	<b>217168432</b>	<b>213106757</b>
<b>Net Addition</b>		<b>-2358150</b>		<b>-16349</b>		<b>-2625997</b>		<b>-1017599</b>		<b>-4061675</b>
<b>Rural Subscribers</b>	172296100	171325432	0	0	118843627	116961939	3319866	3107673	115415729	113595099

**Note:** M/s Reliance Com. has not reported its rural wireless subscriber base for the months of August & September, 2018 and hence their rural wireless subscriber base has been taken as NIL.

**Wireless Subscriber Base**

**Annexure-I (Contd.)**

Circle	Group								Net Addition
	BSNL		MTNL		Reliance Jio		Total		
	Aug-18	Sep-18	Aug-18	Sep-18	Aug-18	Sep-18	Aug-18	Sep-18	
Andhra Pradesh	10121336	10117353			19739246	20399046	86441707	86454647	12940
Assam	2361519	2336741			4822949	5028609	21566131	21559846	-6285
Bihar	4851318	4724672			16939207	17780229	87799928	87521972	-277956
Delhi			2241426	2233956	13075176	13325084	50514534	50603432	88898
Gujarat	5693475	5641764			16058993	16576888	70484101	70299721	-184380
Haryana	4721161	4779107			5935581	6179323	27717638	27538865	-178773
Himachal Pradesh	2689597	2715771			2418815	2505658	10350074	10380876	30802
J & K	1241297	1208592			2837318	2975802	11262561	11328268	65707
Karnataka	7087161	7014510			13093076	13666438	68367404	68321063	-46341
Kerala	10867428	10825739			6322954	6501146	43296709	43317159	20450
Kolkata	1651491	1683227			7200891	7424214	26703582	26826578	122996
Madhya Pradesh	6159102	6017078			16831873	18740661	75863993	76590058	726065
Maharashtra	6897298	6925452			17783437	18698415	94700053	94569841	-130212
Mumbai			1262435	1260470	10086025	10370022	36911088	37076808	165720
North East	1744111	1603167			2249264	2349334	11813680	11693548	-120132
Orissa	5509897	5510262			6845464	7180438	33126751	33115235	-11516
Punjab	5275129	5212346			9979765	10310181	39163395	39094160	-69235
Rajasthan	5659635	5640989			13109401	16165830	63552513	65863227	2310714
Tamil Nadu (incl. Chennai)	11691867	11696433			15662118	16296598	81779254	82183024	403770
U.P.(E)	11784171	11905520			16500994	17103514	102197746	101926598	-271148
U.P.(W)	5868934	5886864			12044837	12598432	64583221	64550774	-32447
West Bengal	1708500	1602433			9693728	10076141	58699841	58475483	-224358
<b>Total</b>	<b>113584427</b>	<b>113048020</b>	<b>3503861</b>	<b>3494426</b>	<b>239231112</b>	<b>252252003</b>	<b>1166895904</b>	<b>1169291183</b>	<b>2395279</b>
<b>Net Addition</b>		<b>-536407</b>		<b>-9435</b>		<b>13020891</b>	0	2395279	
<b>Rural Subscribers</b>	<b>36062370</b>	<b>35724341</b>	<b>46846</b>	<b>46690</b>	<b>73114298</b>	<b>80832574</b>	<b>519098836</b>	<b>521593748</b>	<b>2494912</b>

**Proportion of VLR on the date of Peak VLR in the month of Sep-18 (%)**

**Annexure-II**

Circle	Bharti	BSNL	Idea	MTNL	Reliance	Reliance Jio	Tata	Vodafone	Total
<b>Andhra Pradesh</b>	100.89	69.33	97.00		64.81	77.11	0.45	85.55	<b>87.48</b>
<b>Assam</b>	99.20	65.77	93.22			91.65		95.46	<b>92.67</b>
<b>Bihar</b>	85.90	56.64	88.20		9.80	96.28	0.43	86.08	<b>86.46</b>
<b>Delhi</b>	96.90		87.48	22.66	67.84	75.21	0.00	95.32	<b>85.91</b>
<b>Gujarat</b>	99.92	44.69	94.88		29.97	71.22	0.02	96.15	<b>85.09</b>
<b>Haryana</b>	119.67	36.09	92.41		3.95	65.39	0.38	92.87	<b>77.23</b>
<b>Himachal Pradesh</b>	90.09	46.29	103.00		2.78	73.38	1.47	87.05	<b>75.63</b>
<b>J &amp; K</b>	93.81	76.06	90.49		-	76.01		90.80	<b>86.83</b>
<b>Karnataka</b>	104.64	63.34	93.55		66.63	79.50	0.42	97.23	<b>87.64</b>
<b>Kerala</b>	97.56	63.08	93.57		53.85	73.46	2.28	96.69	<b>83.14</b>
<b>Kolkata</b>	106.79	55.49	89.25		40.00	73.45	8.11	95.34	<b>84.93</b>
<b>Madhya Pradesh</b>	102.70	55.28	94.31		3.01	90.12	0.28	74.50	<b>87.77</b>
<b>Maharashtra</b>	113.57	55.88	95.80		53.26	93.24	2.51	97.56	<b>93.87</b>
<b>Mumbai</b>	117.16		83.28	52.04	56.10	80.15	7.49	78.10	<b>85.26</b>
<b>North East</b>	98.83	75.72	94.31		-	86.09		93.26	<b>92.03</b>
<b>Orissa</b>	88.91	70.48	84.48		8.51	92.40	1.00	94.76	<b>85.38</b>
<b>Punjab</b>	101.80	49.31	96.87		3.57	76.25	0.08	87.52	<b>82.79</b>
<b>Rajasthan</b>	91.61	47.10	88.64		7.66	85.41	0.48	98.90	<b>87.02</b>
<b>Tamil Nadu (incl. Chennai)</b>	98.42	66.80	88.40		72.83	77.49	0.72	97.66	<b>86.78</b>
<b>U.P. (E)</b>	95.31	45.36	86.92		16.17	88.97	0.10	90.72	<b>84.45</b>
<b>U.P. (W)</b>	102.15	42.48	88.70		22.03	77.44	0.18	92.92	<b>83.97</b>
<b>West Bengal</b>	91.48	84.58	83.98		11.62	85.33	1.49	95.53	<b>90.81</b>
<b>Total</b>	<b>98.05</b>	<b>57.01</b>	<b>92.08</b>	<b>33.26</b>	<b>60.36</b>	<b>82.33</b>	<b>1.36</b>	<b>93.11</b>	<b>86.65</b>

Note: Peak VLR figures in some circles of some of the service providers are more than their HLR figures due to a large number of inroamers.



## Wireline Subscriber Base

## Annexure-III

Circle	Group														Total		Net Addition
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant		Vodafone		Aug-18	Sep-18	
	Aug-18	Sep-18	Aug-18	Sep-18	Aug-18	Sep-18	Aug-18	Sep-18	Aug-18	Sep-18	Aug-18	Sep-18	Aug-18	Sep-18			
Andhra Pradesh	1015549	1012648			169546	170731	49325	49901	174157	175192			29790	30230	1438367	1438702	335
Assam	125675	123444											2880	2790	128555	126234	-2321
Bihar	232768	230498					4345	4374	9521	8749			1740	1800	248374	245421	-2953
Delhi			1508597	1503186	1351374	1358401	143744	140679	151008	151721			40350	42580	3195073	3196567	1494
Gujarat	1009746	1009137			81381	81614	24980	23975	91664	91102			16788	20088	1224559	1225916	1357
Haryana	227376	225606			22472	22668	3025	3049	36248	35843			150	150	289271	287316	-1955
Himachal Pradesh	115709	114891					3162	3121	2004	2001					120875	120013	-862
J & K	109129	107958													109129	107958	-1171
Karnataka	1057229	1052271			657314	661126	147986	146662	277538	277374			39035	40145	2179102	2177578	-1524
Kerala	1817186	1813189			59172	59559	20383	19857	19602	19854			2910	2880	1919253	1915339	-3914
Kolkata	523750	515718			125568	125629	43497	43375	52007	53060			8000	7940	752822	745722	-7100
Madhya Pradesh	656659	656329			242072	242223	11457	11487	15273	15728			750	690	926211	926457	246
Maharashtra	1175309	1162466			86623	87100	55946	54992	299973	297202			16567	16597	1634418	1618357	-16061
Mumbai			1788019	1784706	361841	362239	200709	195555	570930	569615			47315	47195	2968814	2959310	-9504
North East	107843	107170											270	270	108113	107440	-673
Orissa	243542	237613					2680	2642	7658	7798			1740	1950	255620	250003	-5617
Punjab	432710	426496			125295	126264	11817	11702	14163	14502	235793	233693	1530	1530	821308	814187	-7121
Rajasthan	476800	470038			51581	52352	25629	25527	12112	12199			7140	7140	573262	567256	-6006
Tamil Nadu (incl. Chennai)	1478852	1474450			557196	557755	78330	76665	118696	118397			17530	17590	2250604	2244857	-5747
U.P.(E)	362032	362054			65010	65518	10512	10285	8802	8897			11550	11520	457906	458274	368
U.P.(W)	291539	289358			22541	22736	4416	4271	6027	6051			3870	3900	328393	326316	-2077
West Bengal	252825	249066					1775	1757	2620	2587			120	120	257340	253530	-3810
<b>Total</b>	<b>11712228</b>	<b>11640400</b>	<b>3296616</b>	<b>3287892</b>	<b>3978986</b>	<b>3995915</b>	<b>843718</b>	<b>829876</b>	<b>1870003</b>	<b>1867872</b>	<b>235793</b>	<b>233693</b>	<b>250025</b>	<b>257105</b>	<b>22187369</b>	<b>22112753</b>	<b>-74616</b>
<b>Net Addition</b>		<b>-71828</b>		<b>-8724</b>		<b>16929</b>		<b>-13842</b>		<b>-2131</b>		<b>-2100</b>		<b>7080</b>		<b>-74616</b>	
<b>Rural Subscribers</b>	3083336	3063310	0	0	0	0	1582	1582	53195	52713	49151	48805	0	0	3187264	3166410	-20854

## 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:-

<b>1</b>	<b>Total IMSI's in HLR (A)</b>
<b>2</b>	<b>Less: (B = a + b + c + d + e)</b>
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
<b>3</b>	<b>Subscribers Base (A-B)</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.