

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 1st February, 2017

(www.trai.gov.in)



सत्यमेव जयते

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

| Particulars | Wireless | Wireline | Total (Wireless+ Wireline) |
|--|----------------|--------------|----------------------------------|
| Total Telephone Subscribers (Million) | 1099.51 | 24.44 | 1123.96 |
| Net Addition in November, 2016 (Million) | 21.09 | -0.07 | 21.02 |
| Monthly Growth Rate | 1.96% | -0.30% | 1.91% |
| Urban Telephone Subscribers (Million) | 638.46 | 20.57 | 659.03 |
| Net Addition in November, 2016 (Million) | 16.69 | -0.04 | 16.65 |
| Monthly Growth Rate | 2.68% | -0.19% | 2.59% |
| Rural Telephone Subscribers (Million) | 461.05 | 3.88 | 464.93 |
| Net Addition in November, 2016 (Million) | 4.40 | -0.04 | 4.36 |
| Monthly Growth Rate | 0.96% | -0.91% | 0.95% |
| Overall Tele-density* | 85.90 | 1.91 | 87.81 |
| Urban Tele-density* | 159.27 | 5.13 | 164.40 |
| Rural Tele-density* | 52.45 | 0.44 | 52.89 |
| Share of Urban Subscribers | 58.07% | 84.14% | 58.63% |
| Share of Rural Subscribers | 41.93% | 15.86% | 41.37% |
| Broadband Subscribers (Million) | 200.20 | 18.06 | 218.26 |

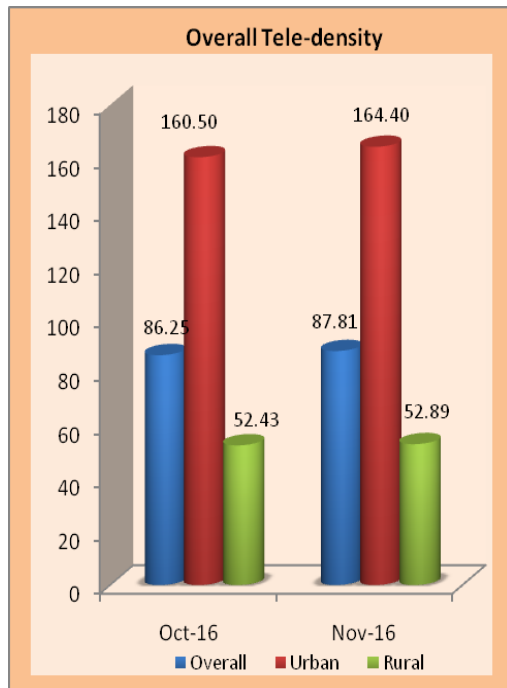
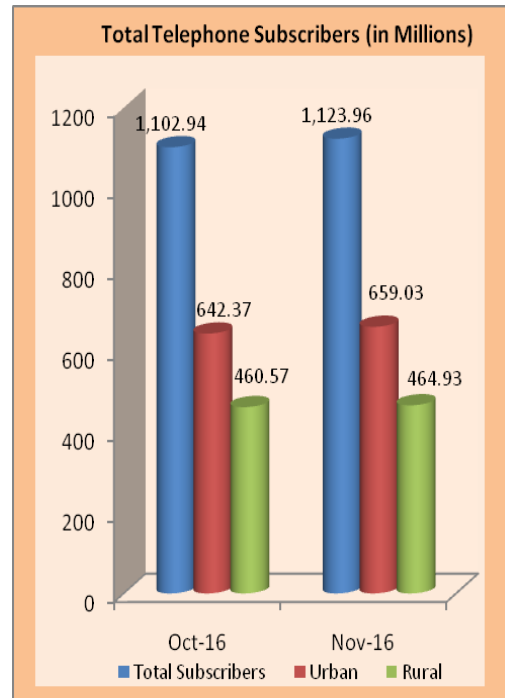
- ❖ In the month of November, 2016, 4.76 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 244.39 million at the end of Oct-16 to 249.15 million at the end of Nov-16, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in November, 2016 was 968.83 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.

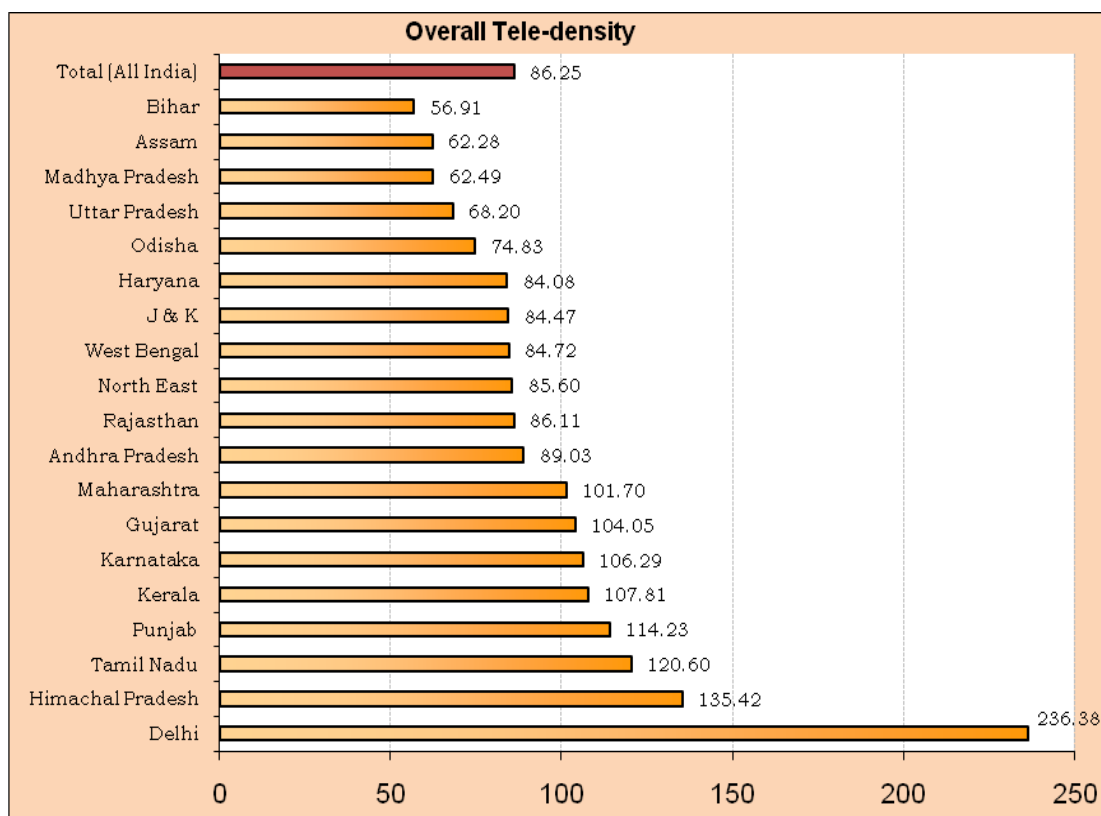
I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,102.94 million at the end of Oct-16 to 1,123.96 million at the end of Nov-16, thereby showing a monthly growth rate of 1.91%. The urban subscription increased from 642.37 million at the end of Oct-16 to 659.03 million at the end of Nov-16 and the rural subscription also increased from 460.57 million to 464.93 million during the same period. The monthly growth rates of urban and rural subscription were 2.59% and 0.95% respectively during the month of Nov-16.



- The overall Tele-density in India increased from 86.25 at the end of Oct-16 to 87.81 at the end of Nov-16. The Urban Tele-density increased from 160.50 at the end of Oct-16 to 164.40 at the end of Nov-16, and the Rural Tele-density also increased from 52.43 at the end of Oct-16 to 52.89 at the end of Nov-16. The share of urban subscribers and rural subscribers in total number of telephone subscribers at the end of Nov-16 was 58.63% and 41.37% respectively.

Overall Tele-density (Circle/State Wise) – As on 30th November, 2016



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 November, 2016

| Circle Category | Net additions in the month of November, 2016 | | Telephone Subscriber base as on 30 th November, 2016 | |
|------------------|--|-------------------|---|----------------------|
| | Wireline segment | Wireless segment | Wireline segment | Wireless segment |
| Circle A | -34,291 | 6,947,151 | 9,622,663 | 384,793,539 |
| Circle B | -32,254 | 8,411,774 | 6,539,601 | 439,140,140 |
| Circle C | -6,371 | 3,352,725 | 1,176,862 | 165,605,981 |
| Metro | -1,801 | 2,379,894 | 7,104,882 | 109,974,099 |
| All India | -74,717 | 21,091,544 | 24,444,008 | 1,099,513,759 |

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

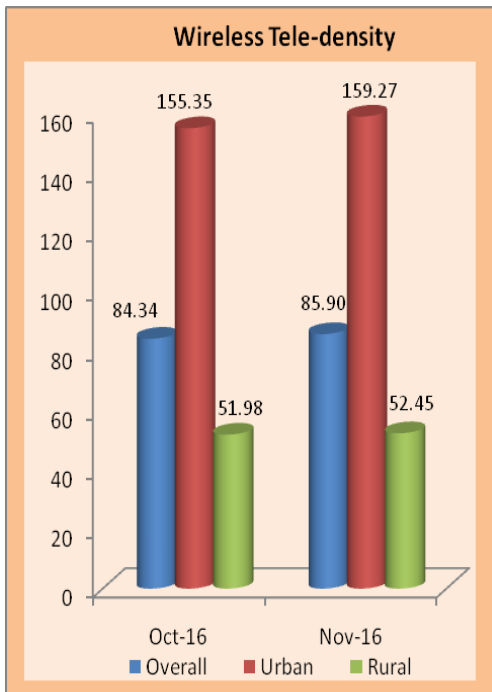
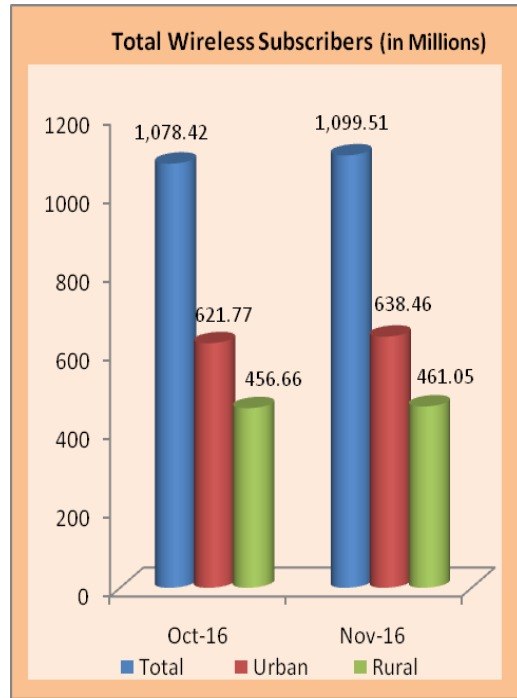
| Circle Category | Monthly growth rate (%) (Oct-16 to Nov-16) | | Yearly growth rate (%) (Nov-15 to Nov-16) | |
|------------------|--|------------------|---|------------------|
| | Wireline Segment | Wireless Segment | Wireline Segment | Wireless Segment |
| Circle A | -0.36 | 1.84 | -6.14 | 7.80 |
| Circle B | -0.49 | 1.95 | -7.67 | 9.56 |
| Circle C | -0.54 | 2.07 | -6.51 | 11.04 |
| Metro | -0.03 | 2.21 | -0.35 | 7.23 |
| All India | -0.30 | 1.96 | -4.98 | 8.92 |

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 during the month of Nov-16. However, Metro circles showed maximum growth rate in subscriber base during the same period.
- In Wireline segment, Circles of Category-A showed the highest net decline in subscriber base during the month of Nov-16. However, Circles of Category-C showed maximum decline rate in wireline subscriber base during the same period.

III. Wireless Subscribers (GSM, CDMA & LTE)

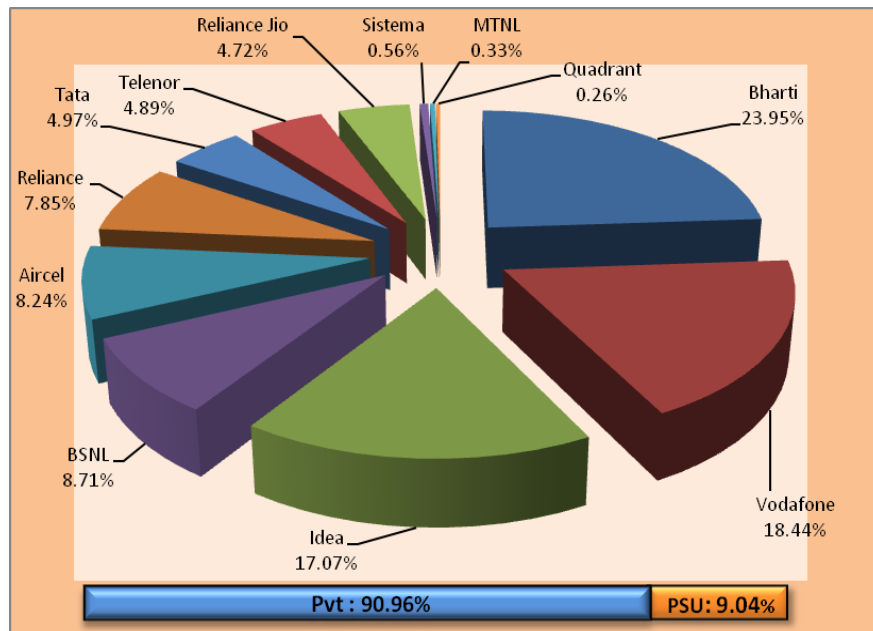
- Total wireless subscriber base increased from 1,078.42 million at the end of Oct-16 to 1,099.51 million at the end of Nov-16, thereby registering a monthly growth rate of 1.96%. The Wireless subscription in urban areas increased from 621.77 million at the end of Oct-16 to 638.46 million at the end of Nov-16, and wireless subscription in rural areas also increased from 456.66 million to 461.05 million during the same period. The monthly growth rates of urban and rural wireless subscription were 2.68% and 0.96% respectively.



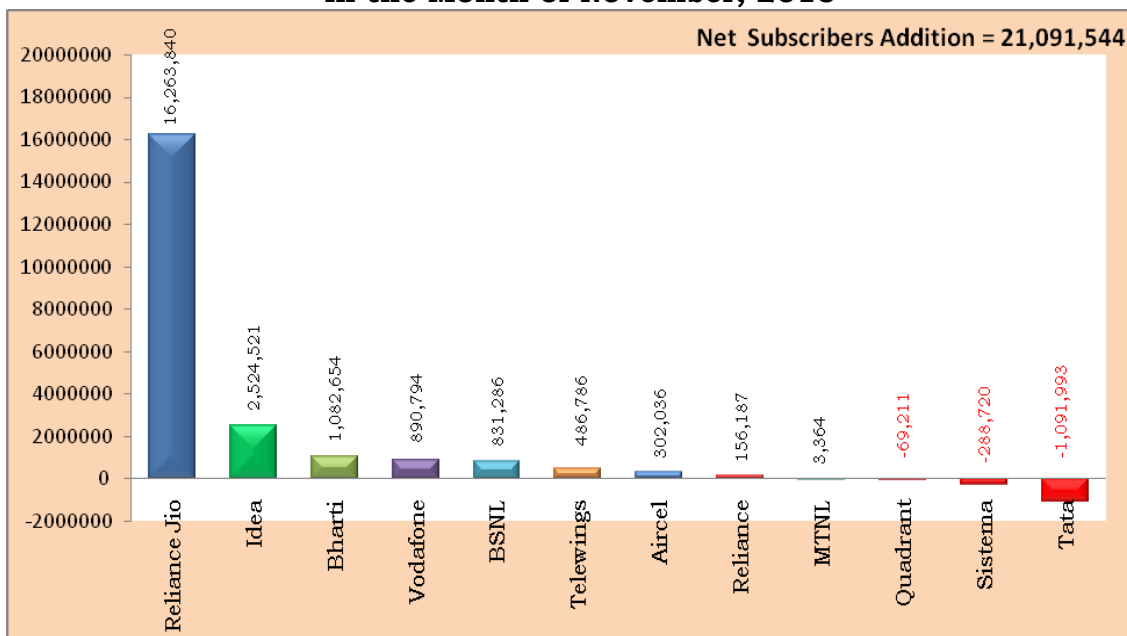
- The Wireless Tele-density in India increased from 84.34 at the end of Oct-16 to 85.90 at the end of Nov-16. The Urban Wireless Tele-density increased from 155.35 at the end of Oct-16 to 159.27 at the end of Nov-16, and Rural Wireless Tele-density also increased from 51.98 to 52.45 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 58.07% and 41.93% respectively at the end of Nov-16. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 30th November, 2016, the private access service providers held 90.96% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.04%. 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 November, 2016



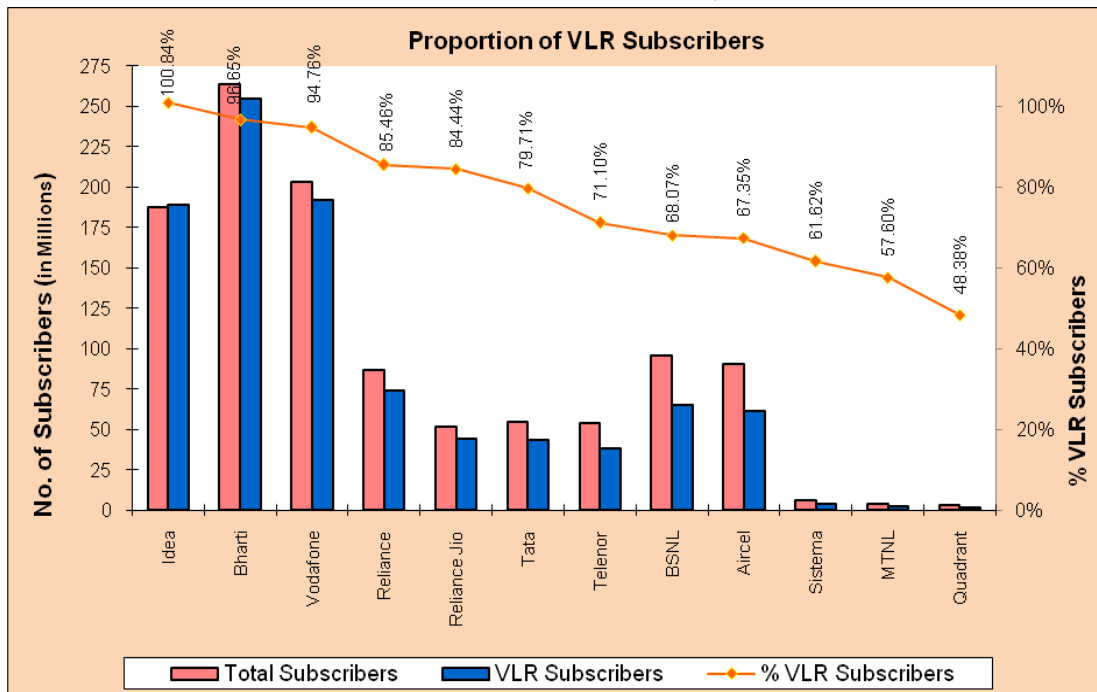
Net Additions in Wireless Subscriber Bases of Access Service Providers in the Month of November, 2016



IV. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscriber base (1,099.51 million), 968.83 million wireless subscribers were active on the date of peak VLR in the month of Nov-16. The proportion of active wireless subscribers was approximately 88.11% 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-16 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

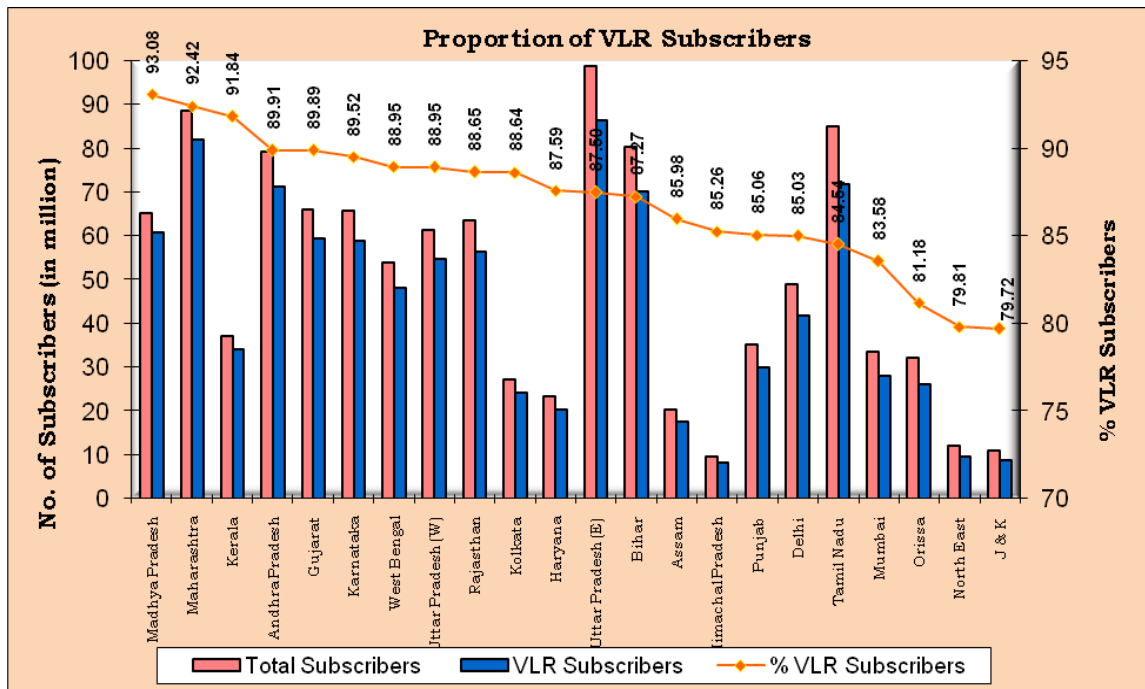
Access Service Provider-wise Proportion of VLR Subscribers in the Month of November, 2016



Note-

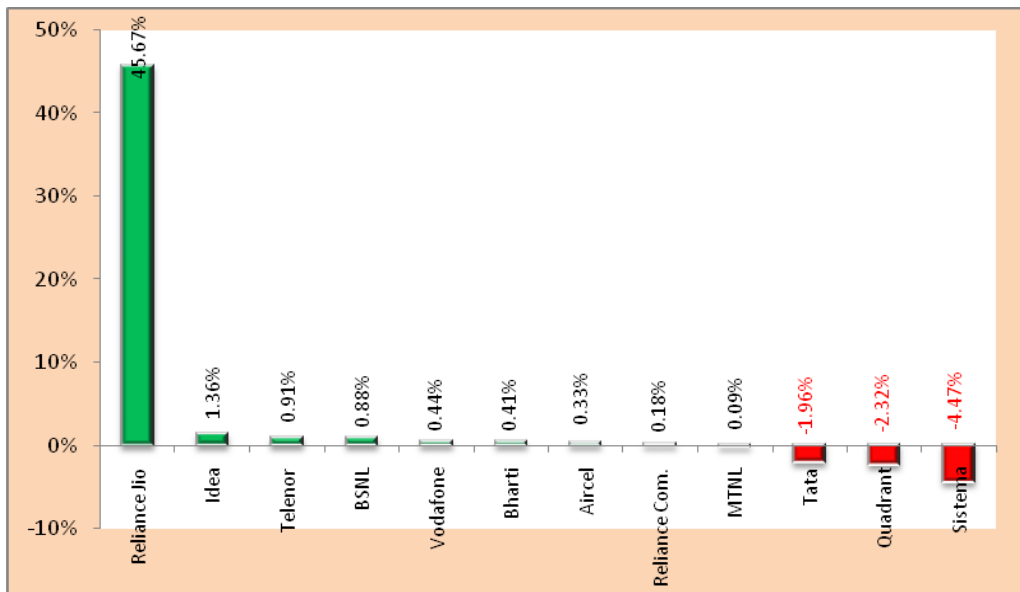
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

Service Area wise proportion of VLR Subscribers in the Month of November, 2016

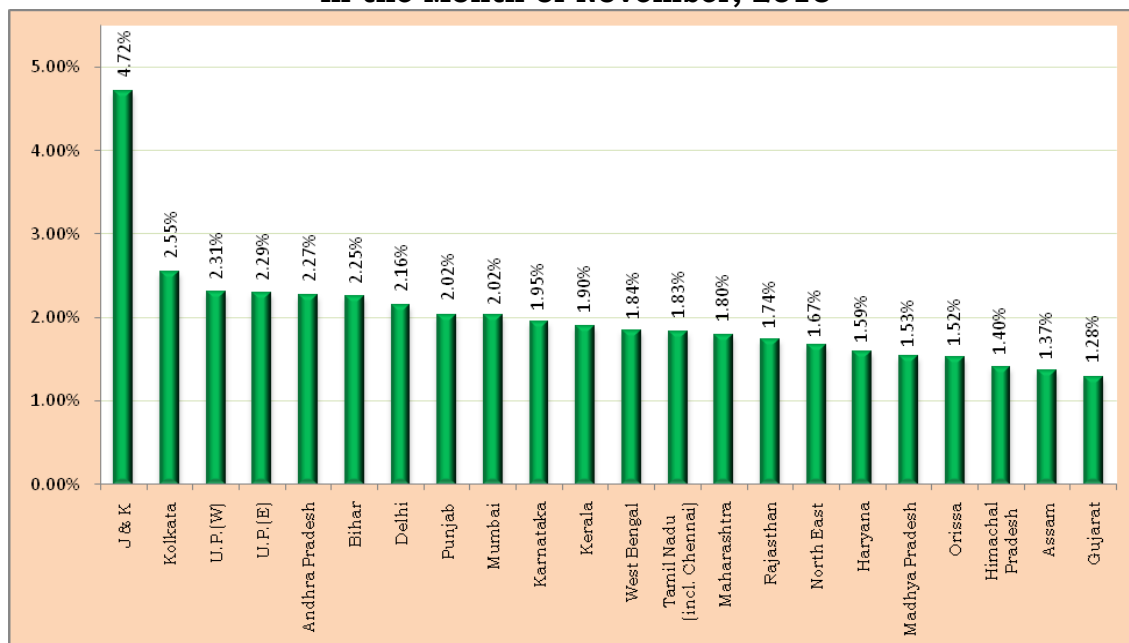


V. Growth in Wireless Subscribers

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



Service Area-wise Monthly Growth Rate of Wireless Subscriber base in the Month of November, 2016



- All the service areas showed positive growth in wireless subscribers during the month of Nov-16. J&K service area recorded the highest growth rate 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.
- During the month of Nov-16, a total of 4.76 million requests were received for MNP. With this, the cumulative MNP requests increased from 244.39 million at the end of Oct-16 to 249.15 million at the end of Nov-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 21.10 million) followed by Gujarat (about 18.25 million).

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 27.67 million) followed by Andhra Pradesh (about 22.95 million).

| Service Area Wise MNP Status at the end of November, 2016 | | | |
|--|-----------------------------------|---------------------|-----------------------------------|
| Zone -I | | Zone - II | |
| Service Area | Number of Porting Requests | Service Area | Number of Porting Requests |
| Delhi | 10299768 | Andhra Pradesh | 22949617 |
| Gujarat | 18247570 | Assam | 1256129 |
| Haryana | 9749750 | Bihar | 9405638 |
| Himachal Pradesh | 893504 | Karnataka | 27669028 |
| Jammu & Kashmir | 98472 | Kerala | 7176805 |
| Maharashtra | 16935141 | Kolkata | 5320135 |
| Mumbai | 13858627 | Madhya Pradesh | 17472224 |
| Punjab | 8837797 | North East | 494819 |
| Rajasthan | 21103532 | Orissa | 5056678 |
| Uttar Pradesh - East | 12171505 | Tamil Nadu | 15631280 |
| Uttar Pradesh - West | 11218329 | West Bengal | 13306859 |
| Total | 123,413,995 | Total | 125,739,212 |
| Total (Zone-I + Zone-II) | | | 249,153,207 |
| Net Addition (in November, 2016) | | | 4,764,255 |

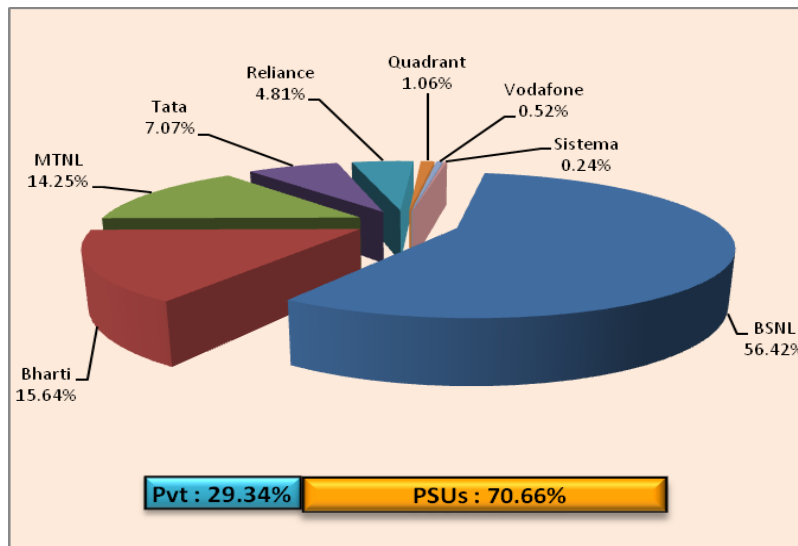
Note: For Zone-II, available MNP data for November, 2016 are provisional.

VII. Wireline Subscribers

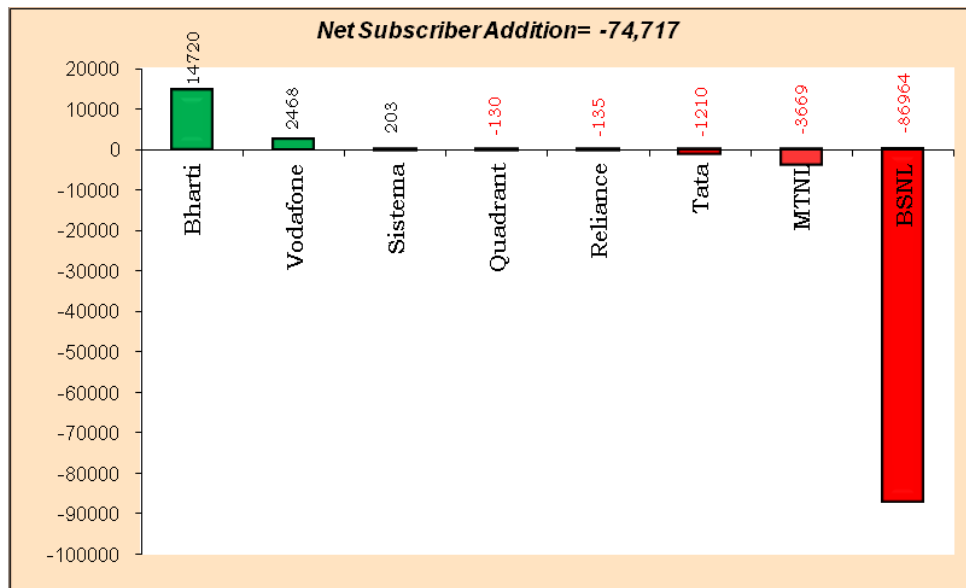
- Wireline subscriber base declined from 24.52 million at the end of Oct-16 to 24.44 million at the end of Nov-16. Net decline in the wireline subscriber base was 0.07 million with a monthly decline rate of 0.30%. The share of urban and rural subscribers in total wireline subscribers were 84.14% and 15.86% respectively at the end of Nov-16.
- The Overall Wireline Tele-density declined from 1.92 at the end of Oct-16 to 1.91 at the end of Nov-16. Urban Wireline Tele-density and Rural Wireline Tele-density were 5.13 and 0.44 respectively during the same period.

- BSNL and MTNL, the two PSU access service providers, held 70.66% 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 Nov-16 are given below:

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



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



VIII. Broadband (\geq 512 Kbps download)

- As per the reports received from the service providers, the number of broadband subscribers slightly declined from 218.42 Million at the end of Oct-16 to 218.26 million at the end of Nov-16 with a monthly growth rate of -0.07%. 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 November, 2016

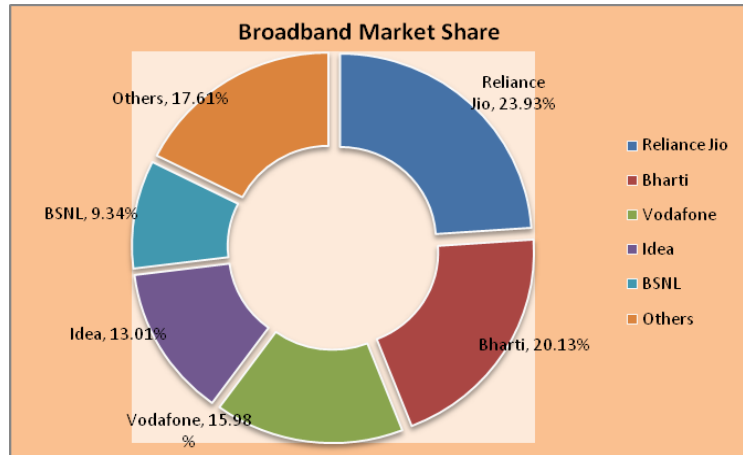
| Segment | Broadband subscribers (in million) | | Monthly growth rate in the month of Nov-16 |
|---|--------------------------------------|---------------------------------------|--|
| | As on 31 st October, 2016 | As on 30 th November, 2016 | |
| Wired subscribers | 17.93 | 18.06 | 0.69% |
| Mobile devices users (Phones and dongles) | 199.90 | 199.61 | -0.14% |
| Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT) | 0.60 | 0.60 | 0.0% |
| Total | 218.42 | 218.26 | -0.07% |

- Top five service providers constituted 82.39% market share of the total broadband subscribers at the end of Nov-16. These service providers were Reliance Jio Infocom Ltd (52.23 million), Bharti Airtel (43.93 million), Vodafone (34.88 million), Idea Cellular (28.40 million) and BSNL (20.39 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 30.11.2016**



- As on 30th November, 2016, the top five Wired Broadband Service providers were BSNL (9.95 million), Bharti Airtel (2.03 million), Atria Convergence Technologies (1.14 million), MTNL (1.05 million) and YOU Broadband (0.60 million).
- As on 30th November, 2016, the top five Wireless Broadband Service providers were Reliance Jio Infocomm Ltd (52.23 million), Bharti Airtel (41.90 million), Vodafone (34.87 million), Idea Cellular (28.40 million) and Reliance Communications (16.08 million).

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Authorized to issue:

(Vinod Kotwal)
Advisor (F&EA)

Wireless Subscriber Base

Annexure-I

| Circle | Group | | | | | | | | | | | |
|----------------------------|------------------|------------------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|------------------|------------------|-----------------|-----------------|
| | Bharti | | Reliance | | Vodafone | | Tata | | Idea | | Aircel | |
| | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 |
| Andhra Pradesh | 24749200 | 24876894 | 3725462 | 3692797 | 6998696 | 7030301 | 4294450 | 4151141 | 16788412 | 17118446 | 2530099 | 2533740 |
| Assam | 6239681 | 6223425 | 1383658 | 1363906 | 3898309 | 3898040 | | | 1228166 | 1257054 | 5598124 | 5622743 |
| Bihar | 29600178 | 29816419 | 3408443 | 3363319 | 9456972 | 9606367 | 1534520 | 1517808 | 11404887 | 11743549 | 7371054 | 7393257 |
| Delhi | 11434620 | 11311804 | 5482864 | 5479543 | 10478494 | 10497097 | 1794749 | 1748846 | 6404587 | 6371429 | 6663544 | 6687695 |
| Gujarat | 8771087 | 8673616 | 5972082 | 6002860 | 19631476 | 19570930 | 2765325 | 2655521 | 12658749 | 12675064 | 17063 | 17063 |
| Haryana | 3352379 | 3352509 | 1522506 | 1530705 | 5642373 | 5697922 | 2804167 | 2749485 | 4951348 | 5016509 | 3092 | 3092 |
| Himachal Pradesh | 2923720 | 2906527 | 1551574 | 1554761 | 735809 | 738791 | 58110 | 55690 | 827195 | 816098 | 1113205 | 1114131 |
| J & K | 3324153 | 3471515 | 968492 | 959973 | 907325 | 937993 | | | 554082 | 594199 | 2771757 | 2819583 |
| Karnataka | 21772639 | 21793618 | 5139715 | 5206124 | 7801048 | 7847062 | 6930248 | 6915634 | 9325866 | 9494707 | 3310214 | 3329811 |
| Kerala | 4539252 | 4524622 | 1451102 | 1477969 | 7712400 | 7714556 | 1469934 | 1442205 | 11010120 | 11083166 | 373997 | 377353 |
| Kolkata | 4827302 | 4814136 | 4286977 | 4317981 | 5577313 | 5556384 | 2693759 | 2621996 | 2306820 | 2381342 | 4273414 | 4295357 |
| Madhya Pradesh | 13497678 | 13586861 | 9525891 | 9420422 | 6929061 | 6795383 | 4677087 | 4550288 | 23038435 | 23332926 | 20694 | 20694 |
| Maharashtra | 13790077 | 13865264 | 4425251 | 4469491 | 18650321 | 18717363 | 6103078 | 5903530 | 24762568 | 25064717 | 2722427 | 2745608 |
| Mumbai | 6084684 | 6105656 | 4910854 | 4758106 | 8941933 | 8938403 | 2888462 | 2897133 | 4361482 | 4391107 | 2955680 | 2963743 |
| North East | 4062161 | 4064433 | 393699 | 377324 | 1628889 | 1614294 | | | 544741 | 569731 | 3411587 | 3416148 |
| Orissa | 10849418 | 10875679 | 2219397 | 2199352 | 4226332 | 4258670 | 2059818 | 2004834 | 1868371 | 1955343 | 4721724 | 4682199 |
| Punjab | 8285945 | 8277966 | 1610204 | 1627510 | 5196406 | 5225578 | 2647713 | 2595180 | 6613083 | 6612389 | 1155973 | 1158581 |
| Rajasthan | 20134397 | 20231992 | 5961138 | 6044476 | 11896389 | 11934384 | 1475013 | 1446106 | 7898707 | 7979127 | 6602752 | 6644801 |
| Tamil Nadu (incl. Chennai) | 18038345 | 18149730 | 5208564 | 5359017 | 15906724 | 16122606 | 4245753 | 4183421 | 6424623 | 6380894 | 21779029 | 21809145 |
| U.P.(E) | 22033440 | 22307562 | 8145549 | 8193715 | 19460130 | 19520595 | 3719231 | 3682922 | 11228182 | 11485730 | 7077305 | 7122979 |
| U.P.(W) | 8502777 | 8615374 | 5473352 | 5514458 | 11526623 | 11663076 | 3152670 | 3110816 | 15105586 | 15387536 | 799081 | 811481 |
| West Bengal | 15454463 | 15504648 | 3400310 | 3409462 | 18697878 | 18905900 | 386724 | 376262 | 5847919 | 5967387 | 5072346 | 5076993 |
| Total | 262267596 | 263350250 | 86167084 | 86323271 | 201900901 | 202791695 | 55700811 | 54608818 | 185153929 | 187678450 | 90344161 | 90646197 |
| Net Addition | | 1082654 | | 156187 | | 890794 | | -1091993 | | 2524521 | | 302036 |

Wireless Subscriber Base

Annexure-I (contd.)

| Circle | Group | | | | | | | | | | | | | | Net Addition |
|----------------------------|-----------------|-----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|-------------------|-------------------|-----------------|
| | BSNL | | MTNL | | Telenor | | Sistema | | Quadrant | | Reliance Jio | | Total | | |
| | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | |
| Andhra Pradesh | 9724480 | 9745462 | | | 5497182 | 5545639 | | | | | 3116678 | 4485889 | 77424659 | 79180309 | 1755650 |
| Assam | 1404494 | 1411564 | | | | | | | | | 449914 | 701438 | 20202346 | 20478170 | 275824 |
| Bihar | 3883688 | 3957629 | | | 9924396 | 9983573 | | | | | 1974963 | 2947292 | 78559101 | 80329213 | 1770112 |
| Delhi | | | 2327271 | 2327248 | | | 767666 | 730379 | | | 2715930 | 3951634 | 48069725 | 49105675 | 1035950 |
| Gujarat | 4192723 | 4257288 | | | 8310738 | 8311249 | 174456 | 165903 | | | 2820692 | 3821889 | 65314391 | 66151383 | 836992 |
| Haryana | 3537545 | 3506169 | | | | | | | | | 1153934 | 1476884 | 22967344 | 23333275 | 365931 |
| Himachal Pradesh | 1948409 | 1968227 | | | | | | | | | 345831 | 482716 | 9503853 | 9636941 | 133088 |
| J & K | 1491935 | 1481981 | | | | | | | | | 410891 | 655484 | 10428635 | 10920728 | 492093 |
| Karnataka | 6952792 | 6905708 | | | | | 954094 | 904585 | | | 2260716 | 3307185 | 64447332 | 65704434 | 1257102 |
| Kerala | 8483488 | 8581789 | | | | | 289720 | 273234 | | | 1218384 | 1767244 | 36548397 | 37242138 | 693741 |
| Kolkata | 821697 | 836826 | | | | | 463014 | 447886 | | | 1246845 | 1900652 | 26497141 | 27172560 | 675419 |
| Madhya Pradesh | 4728681 | 4787913 | | | | | | | | | 1962285 | 2872751 | 64379812 | 65367238 | 987426 |
| Maharashtra | 6337880 | 6398873 | | | 8132873 | 8115536 | | | | | 2258827 | 3469908 | 87183302 | 88750290 | 1566988 |
| Mumbai | | | 1293181 | 1296568 | | | | | | | 1591063 | 2345148 | 33027339 | 33695864 | 668525 |
| North East | 1621407 | 1633409 | | | | | | | | | 238218 | 424223 | 11900702 | 12099562 | 198860 |
| Orissa | 4693348 | 4756323 | | | | | | | | | 1020211 | 1408967 | 31658619 | 32141367 | 482748 |
| Punjab | 4270570 | 4360901 | | | | | | | 2978406 | 2909195 | 1756278 | 2446014 | 34514578 | 35213314 | 698736 |
| Rajasthan | 4865479 | 4974533 | | | | | 1817717 | 1726786 | | | 1962546 | 2719971 | 62614138 | 63702176 | 1088038 |
| Tamil Nadu (incl. Chennai) | 8856710 | 8867697 | | | | | 604280 | 576605 | | | 2412676 | 3558008 | 83476704 | 85007123 | 1530419 |
| U.P.(E) | 10279480 | 10397726 | | | 12960576 | 13379481 | | | | | 1706236 | 2734172 | 96610129 | 98824882 | 2214753 |
| U.P.(W) | 5094471 | 5181341 | | | 8438899 | 8415972 | 125580 | 123202 | | | 1850349 | 2631034 | 60069388 | 61454290 | 1384902 |
| West Bengal | 1763507 | 1772711 | | | | | 1263026 | 1222253 | | | 1138407 | 1767211 | 53024580 | 54002827 | 978247 |
| Total | 94952784 | 95784070 | 3620452 | 3623816 | 53264664 | 53751450 | 6459553 | 6170833 | 2978406 | 2909195 | 35611874 | 51875714 | 1078422215 | 1099513759 | 21091544 |
| Net Addition | | 831286 | | 3364 | | 486786 | | -288720 | | -69211 | | 16263840 | | 21091544 | |

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

Annexure-II

| Circle | Aircel | Bharti | BSNL | Quadrant | Idea | MTNL | Reliance | Reliance Jio | Sistema | Tata | Telenor | Vodafone | Total |
|----------------------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Andhra Pradesh | 62.96 | 98.00 | 74.29 | | 100.41 | | 95.54 | 80.26 | | 89.59 | 74.13 | 82.95 | 89.91 |
| Assam | 82.52 | 96.14 | 78.55 | | 97.44 | | 4.38 | 85.60 | | | | 102.40 | 85.98 |
| Bihar | 87.70 | 97.41 | 68.70 | | 101.14 | | 7.98 | 87.98 | | 72.82 | 55.63 | 108.86 | 87.27 |
| Delhi | 58.16 | 92.44 | | | 97.88 | 51.28 | 95.54 | 83.29 | 44.90 | 57.34 | | 96.40 | 85.03 |
| Gujarat | 2682.42 | 94.48 | 66.62 | | 102.49 | | 96.82 | 86.35 | 49.59 | 68.06 | 69.69 | 92.95 | 89.89 |
| Haryana | 0.39 | 95.09 | 56.94 | | 99.58 | | 96.50 | 81.31 | | 80.96 | | 93.95 | 87.59 |
| Himachal Pradesh | 48.54 | 93.91 | 68.69 | | 107.60 | | 98.14 | 111.38 | | 33.42 | | 85.75 | 85.26 |
| J & K | 74.75 | 92.92 | 72.84 | | 99.26 | | 45.62 | 68.75 | | | | 86.83 | 79.72 |
| Karnataka | 57.33 | 97.50 | 64.21 | | 98.55 | | 96.56 | 88.58 | 67.97 | 88.04 | | 91.88 | 89.52 |
| Kerala | 67.27 | 95.60 | 76.66 | | 104.08 | | 97.37 | 84.86 | 60.50 | 87.62 | | 92.60 | 91.84 |
| Kolkata | 66.14 | 97.46 | 94.32 | | 90.35 | | 98.86 | 74.55 | 92.69 | 86.04 | | 94.61 | 88.64 |
| Madhya Pradesh | 0.91 | 96.12 | 69.49 | | 102.83 | | 98.54 | 84.13 | | 76.06 | | 78.07 | 93.08 |
| Maharashtra | 50.72 | 96.93 | 69.57 | | 101.71 | | 98.02 | 93.22 | | 78.86 | 86.93 | 95.73 | 92.42 |
| Mumbai | 51.83 | 92.23 | | | 88.43 | 68.95 | 94.54 | 73.31 | | 75.73 | | 87.33 | 83.58 |
| North East | 62.81 | 99.01 | 66.13 | | 93.64 | | 8.07 | 82.46 | | | | 92.47 | 79.81 |
| Orissa | 58.44 | 96.89 | 73.98 | | 98.72 | | 7.07 | 79.20 | | 81.19 | | 104.97 | 81.18 |
| Punjab | 58.24 | 98.29 | 65.68 | 48.38 | 101.14 | | 96.59 | 82.28 | | 73.64 | | 89.70 | 85.06 |
| Rajasthan | 54.13 | 95.50 | 67.75 | | 101.64 | | 97.86 | 85.54 | 56.63 | 113.46 | | 93.96 | 88.65 |
| Tamil Nadu (incl. Chennai) | 66.90 | 96.56 | 69.85 | | 97.24 | | 96.26 | 85.97 | 59.46 | 72.84 | | 97.64 | 84.54 |
| U.P. (E) | 69.17 | 100.03 | 55.31 | | 104.64 | | 97.73 | 94.34 | | 75.86 | 70.51 | 95.54 | 87.50 |
| U.P. (W) | 96.38 | 92.59 | 59.08 | | 99.21 | | 98.25 | 80.45 | 47.63 | 79.80 | 74.52 | 96.28 | 88.95 |
| West Bengal | 77.83 | 97.36 | 81.79 | | 102.41 | | 8.02 | 82.17 | 66.90 | 60.61 | | 98.69 | 88.95 |
| Total | 67.35 | 96.65 | 68.07 | 48.38 | 100.84 | 57.60 | 85.46 | 84.44 | 61.62 | 79.71 | 71.10 | 94.76 | 88.11 |

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 | | Sistema | | Vodafone | | Oct-16 | Nov-16 | |
| | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | Oct-16 | Nov-16 | | | |
| Andhra Pradesh | 1233735 | 1218636 | | | 155429 | 157375 | 75726 | 75686 | 170915 | 171396 | | | | | 11,040 | 11,040 | 1646845 | 1634133 | -12712 |
| Assam | 156272 | 155434 | | | | | | | | | | | | | 1,950 | 1,980 | 158222 | 157414 | -808 |
| Bihar | 303313 | 298590 | | | | | 6,370 | 6,428 | 12,994 | 12871 | | | | | 1200 | 1200 | 323877 | 319089 | -4788 |
| Delhi | | | 1611391 | 1609660 | 1258661 | 1260903 | 174334 | 174156 | 135348 | 135652 | | | | | 26,760 | 26,970 | 3206494 | 3207341 | 847 |
| Gujarat | 1104395 | 1103136 | | | 76031 | 76062 | 73490 | 73257 | 87262 | 87624 | | | | | 5,490 | 5,730 | 1346668 | 1345809 | -859 |
| Haryana | 290,318 | 287,596 | | | 22525 | 22652 | 4247 | 4053 | 37341 | 37107 | | | | | | | 354431 | 351408 | -3023 |
| Himachal Pradesh | 148,242 | 146,901 | | | | | 3984 | 4014 | 2633 | 2594 | | | | | 30 | 30 | 154889 | 153539 | -1350 |
| J & K | 133,096 | 134,190 | | | | | | | | | | | | | | | 133096 | 134190 | 1094 |
| Karnataka | 1230009 | 1219706 | | | 617475 | 618123 | 154724 | 155216 | 208025 | 207698 | | | | | 21,540 | 22,170 | 2231773 | 2222913 | -8860 |
| Kerala | 2032227 | 2015232 | | | 57387 | 57723 | 33156 | 33126 | 18625 | 18610 | | | | | 1710 | 1620 | 2143105 | 2126311 | -16794 |
| Kolkata | 624318 | 622016 | | | 119802 | 120263 | 69154 | 69154 | 48524 | 49179 | | | | | 5220 | 5400 | 867018 | 866012 | -1006 |
| Madhya Pradesh | 725901 | 725650 | | | 272987 | 272988 | 19751 | 19741 | 16026 | 15980 | | | | | 420 | 420 | 1035085 | 1034779 | -306 |
| Maharashtra | 1426712 | 1422851 | | | 77153 | 77448 | 82344 | 82213 | 284868 | 284267 | | | | | 12,634 | 12,699 | 1883711 | 1879478 | -4233 |
| Mumbai | | | 1874426 | 1872488 | 352504 | 353460 | 255682 | 256089 | 530492 | 529242 | | | | | 20067 | 20250 | 3033171 | 3031529 | -1642 |
| North East | 122550 | 122149 | | | | | | | | | | | | | 150 | 150 | 122700 | 122299 | -401 |
| Orissa | 277846 | 277733 | | | | | 3281 | 3281 | 8242 | 8207 | | | | | 1,080 | 1,110 | 290449 | 290331 | -118 |
| Punjab | 615575 | 609635 | | | 117983 | 119113 | 21104 | 20941 | 16850 | 16651 | 259229 | 259099 | | | 990 | 1,020 | 1031731 | 1026459 | -5272 |
| Rajasthan | 618795 | 615374 | | | 48334 | 48440 | 20063 | 19960 | 11892 | 11867 | | | 58021 | 58224 | 2,070 | 2,310 | 759175 | 756175 | -3000 |
| Tamil Nadu (incl. Chennai) | 1748814 | 1734295 | | | 545151 | 551513 | 134075 | 134020 | 110227 | 110152 | | | | | 9690 | 10350 | 2547957 | 2540330 | -7627 |
| U.P.(E) | 383648 | 383534 | | | 63848 | 63895 | 34815 | 34787 | 15480 | 15563 | | | | | 1,320 | 1,380 | 499111 | 499159 | 48 |
| U.P.(W) | 369267 | 367978 | | | 23051 | 23083 | 7127 | 7127 | 10058 | 9984 | | | | | 1050 | 1050 | 410553 | 409222 | -1331 |
| West Bengal | 332707 | 330140 | | | | | 1977 | 2020 | 3920 | 3868 | | | | | 60 | 60 | 338664 | 336088 | -2576 |
| Total | 13877740 | 13790776 | 3485817 | 3482148 | 3808321 | 3823041 | 1175404 | 1175269 | 1729722 | 1728512 | 259229 | 259099 | 58021 | 58224 | 124471 | 126939 | 24518725 | 24444008 | -74717 |
| Net Addition | | -86964 | | -3669 | | 14720 | | -135 | | -1210 | | -130 | | 203 | | 2468 | | -74717 | |

VLR Subscribers in the Wireless Segment

Home Location Register (HLR) is a central database that contains details of each mobile phone subscriber that is authorized to use the GSM core network. The HLRs store details of every SIM card issued by the service provider. Each SIM has a unique identifier called an International Mobile Subscriber Identity (IMSI), which is the primary key to each HLR record. The HLR data is stored for as long as a subscriber remains with the service provider. HLR also manages the mobility of subscribers by means of updating their position in administrative areas. It sends the subscriber data to a Visitor Location Register (VLR).

Subscriber numbers reported by the service providers is the difference between the numbers of IMSI registered in service provider's HLR and sum of other figures as given below:-

| | |
|----------|---|
| 1 | Total IMSI's in HLR (A) |
| 2 | Less: (B = a + b + c + d + e) |
| a. | Test/Service Cards |
| b. | Employees |
| c. | Stock in hand/in Distribution Channels (Active Card) |
| d. | Subscriber Retention period expired |
| e. | Service suspended pending disconnection |
| 3 | Subscribers Base (A-B) |

Visitor Location Register (VLR) is a temporary database of the subscribers who have roamed into the particular area, which it serves. Each base station in the network is served by exactly one VLR; hence a subscriber cannot be present in more than one VLR at a time.

If subscriber is in active stage i.e. he is able to send/receive calls/SMSs he is available both in HLR and VLR. However, it may be possible that the subscriber is registered in HLR but not in VLR due to the reason that he is either switched-off or moved out of coverage area, not reachable etc. In such circumstances he will be available in HLR but not in VLR. This causes difference between subscriber number reported by the service providers and numbers available in VLR.

The VLR data calculated here is on the basis of active subscribers in VLR on the date of Peak VLR of the particular month for which the data is being collected. This data is to be taken from the switches having the purge time of not more than 72 hours.