

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 20th June, 2016

(www.traigov.in)

**Highlights of Telecom Subscription Data as on 30th April, 2016**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1034.25	25.04	1059.29
Net Addition in April, 2016 (Million)	0.62	-0.19	0.43
Monthly Growth Rate	0.06%	-0.75%	0.04%
Urban Telephone Subscribers (Million)	586.41	20.80	607.21
Net Addition in April, 2016 (Million)	-2.38	-0.10	-2.47
Monthly Growth Rate	-0.40%	-0.46%	-0.41%
Rural Telephone Subscribers (Million)	447.84	4.23	452.08
Net Addition in April, 2016 (Million)	3.00	-0.09	2.91
Monthly Growth Rate	0.67%	-2.14%	0.65%
Overall Tele-density*	81.35	1.97	83.32
Urban Tele-density*	147.90	5.25	153.14
Rural Tele-density*	51.19	0.48	51.67
Share of Urban Subscribers	56.70%	83.10%	57.32%
Share of Rural Subscribers	43.30%	16.90%	42.68%
Broadband Subscribers (Million)	134.04	17.05	151.09

❖ In the month of April, 2016, 4.91 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 209.13 million at the end of Mar-16 to 214.04 million at the end of Apr-16, since implementation of MNP.

❖ Number of active wireless subscribers (on the date of peak VLR#) in April, 2016 was 934.08 million.

Note:

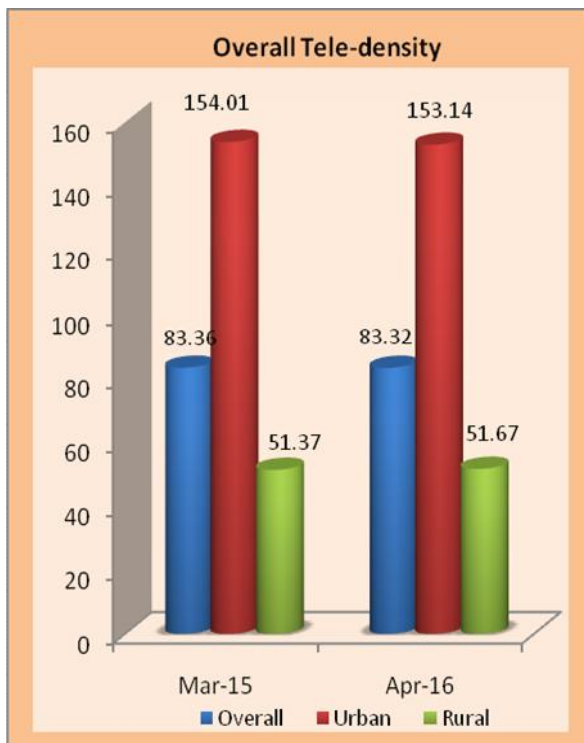
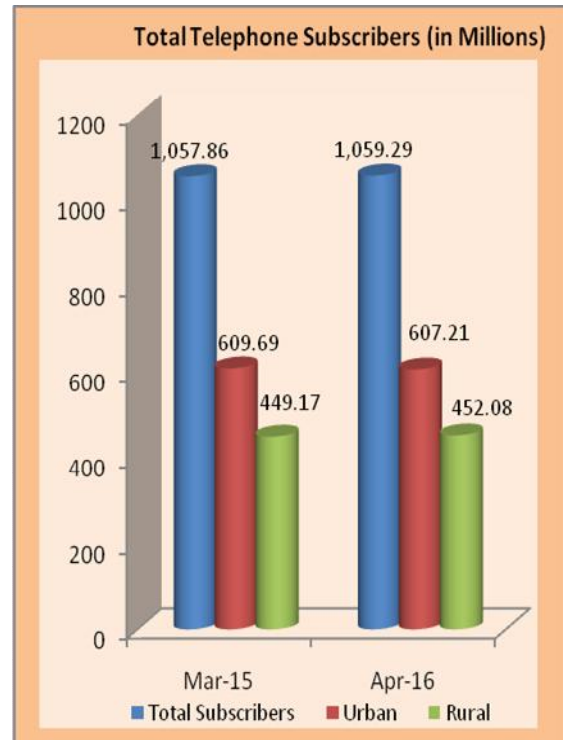
- Information in this Press Release is based on the data provided by the Service Providers

* 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.

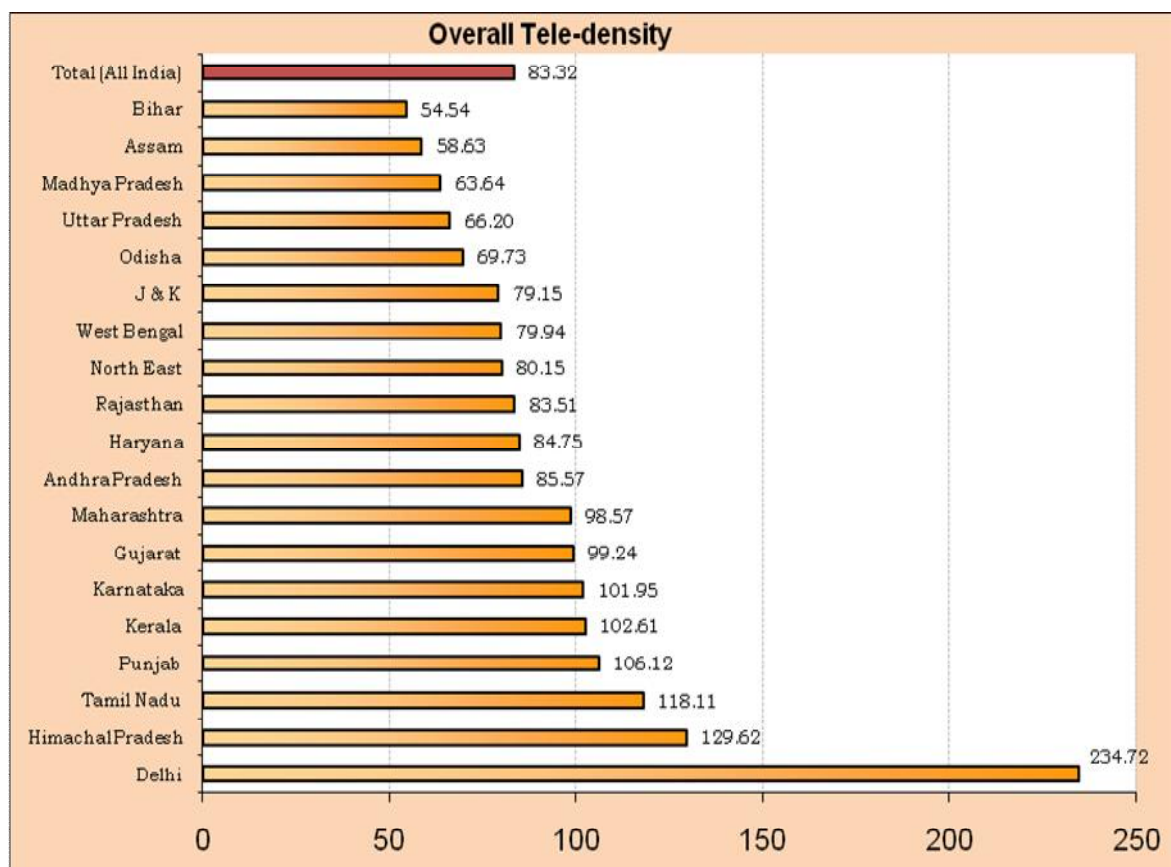
I. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,058.86 million at the end of Mar-16 to 1,059.29 million at the end of Apr-16, thereby showing a monthly growth rate of 0.04%. The urban subscription declined from 609.69 million at the end of Mar-16 to 607.21 million at the end of Apr-16 whereas the rural subscription increased from 449.17 million to 452.08 million during the same period. The monthly growth rates of urban and rural subscription were -0.41% and 0.65% respectively during the month of Apr-16.



- The overall Tele-density in India declined slightly from 83.36 at the end of Mar-16 to 83.32 at the end of Apr-16. The Urban Tele-density declined from 154.01 at the end of Mar-16 to 153.14 at the end of Apr-16, whereas the Rural Tele-density increased from 51.37 at the end of Mar-16 to 51.67 at the end of Apr-16. The share of urban subscribers and rural subscribers in total number of subscribers at the end of Apr-16 was 57.32% and 42.68% respectively.

Overall Tele-density (Circle/State Wise) – As on 30th April, 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). West Bengal includes Kolkata, Maharashtra includes Mumbai and Tamil Nadu includes Chennai.

II. Category-wise Growth in subscriber base

Circle Category-wise Net Additions in Telephone Subscribers in the month of April, 2016

Circle Category	Net additions in the month of April, 2016		Telephone Subscriber base as on 30 th April, 2016	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	-112,301	-1,065,236	9,915,597	362,625,519
Circle B	-63,317	888,229	6,788,336	415,049,973
Circle C	-8,764	1,215,608	1,217,061	152,927,318
Metro	-4,561	-416,098	7,114,631	103,650,518
All India	-188,943	622,503	25,035,625	1,034,253,328

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

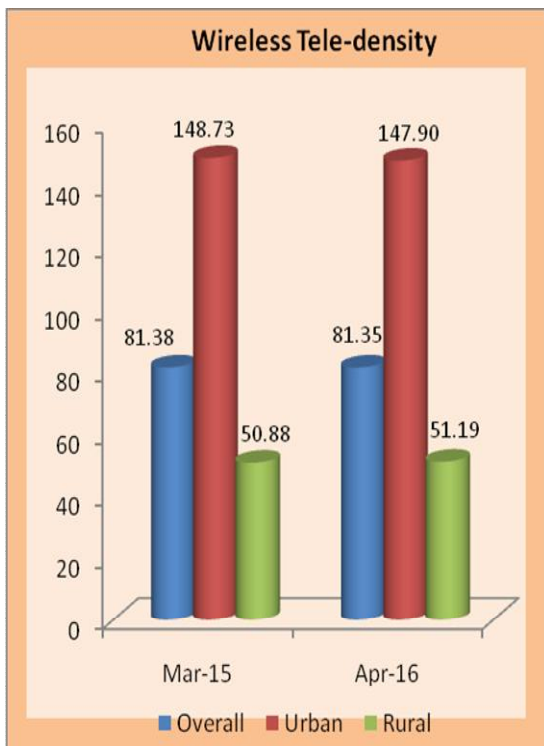
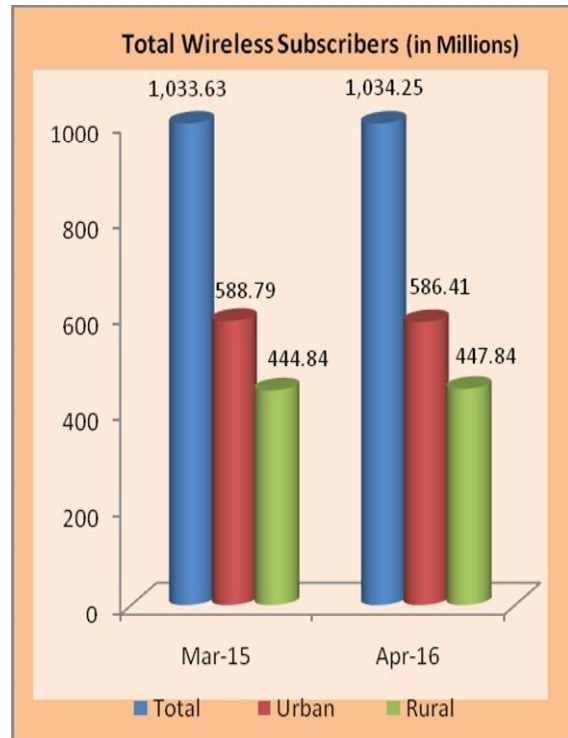
Circle Category	Monthly growth rate (%) (Mar-16 to Apr-16)		Yearly growth rate (%) (Apr-15 to Apr-16)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	-1.12	-0.29	-5.13	5.10
Circle B	-0.92	0.21	-8.33	7.77
Circle C	-0.71	0.80	-7.06	6.19
Metro	-0.06	-0.40	-1.13	4.52
All India	-0.75	0.06	-5.03	6.26

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, the Circles of Category-C showed the maximum net addition the maximum growth rate in the month Apr-16. Circles in Category-A and Metro Circles showed the decline in their wireless subscriber base during the same period.
- In Wireline segment, Circles of Category-A showed the highest net decline and highest monthly decline rate in subscriber base in the month of Apr-16.

III. Wireless Subscribers

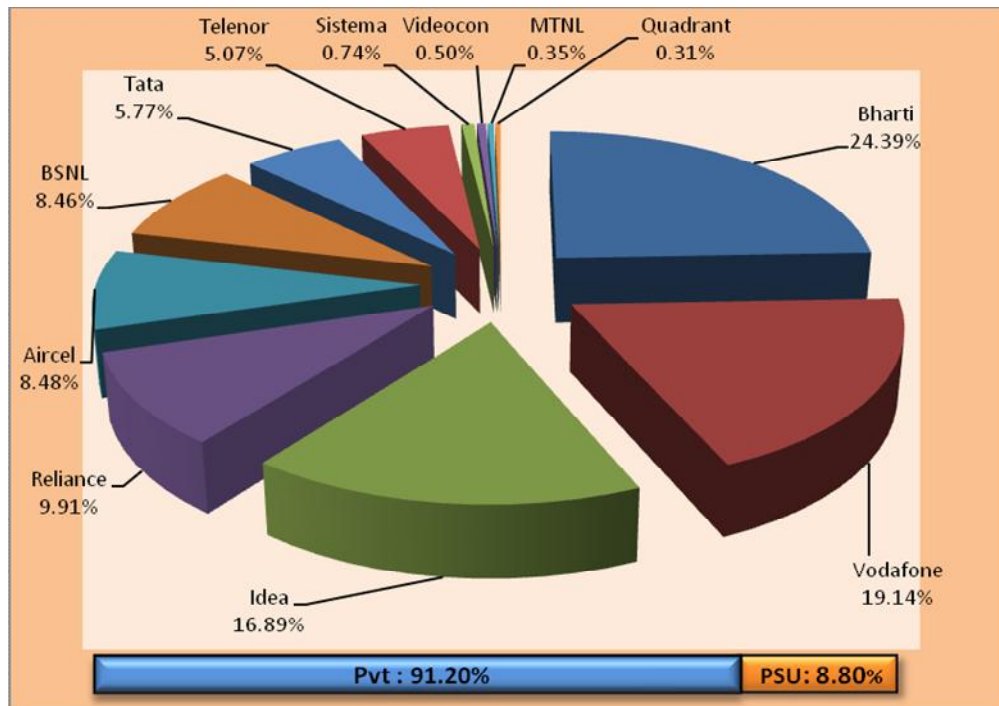
- Total wireless subscriber base increased from 1,033.63 million at the end of Mar-16 to 1,034.25 million at the end of Apr-16, thereby registering a monthly growth rate of 0.06%. The Wireless subscription in urban areas declined from 588.79 million at the end of Mar-16 to 586.41 million at the end of Apr-16, whereas wireless subscription in rural areas increased from 444.84 million to 447.84 million during the same period. The monthly growth rates of urban and rural wireless subscription were -0.40% and 0.67% respectively.



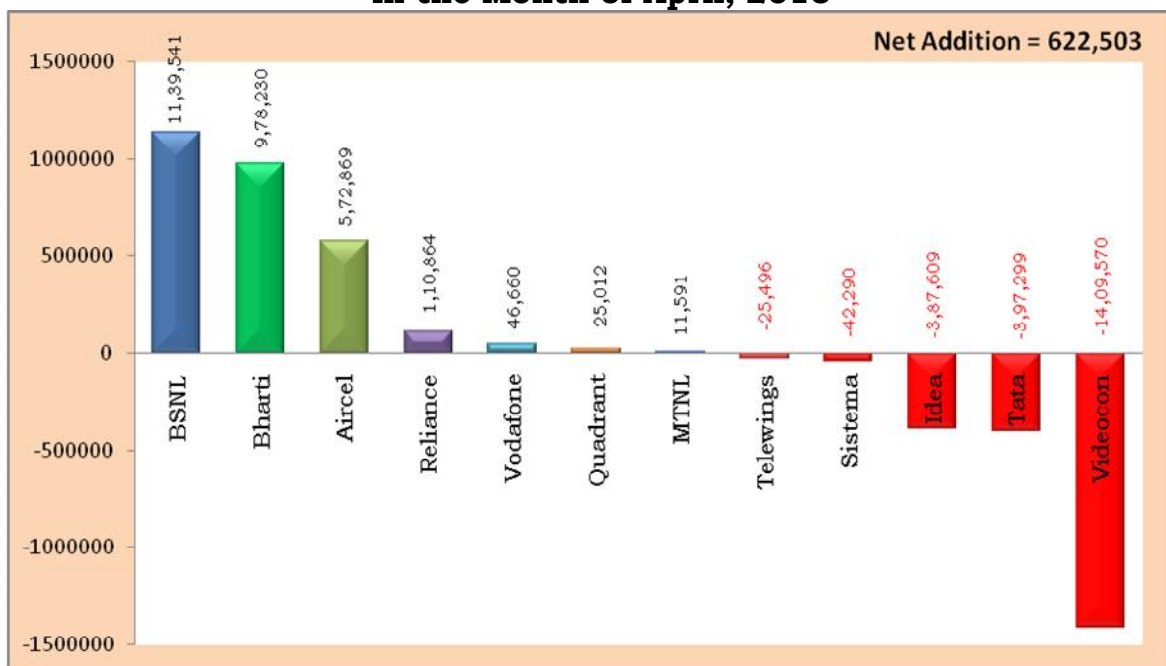
- The Wireless Tele-density in India slightly declined from 81.38 at the end of Mar-16 to 81.35 at the end of Apr-16. The Urban Wireless Tele-density declined from 148.73 at the end of Mar-16 to 147.90 at the end of Apr-16, whereas Rural Wireless Tele-density increased from 50.88 to 51.19 during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 56.70% and 43.30% respectively at the end of Apr-16. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 30th April, 2016, the private access service providers held 91.20% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 8.80%. 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 April, 2016



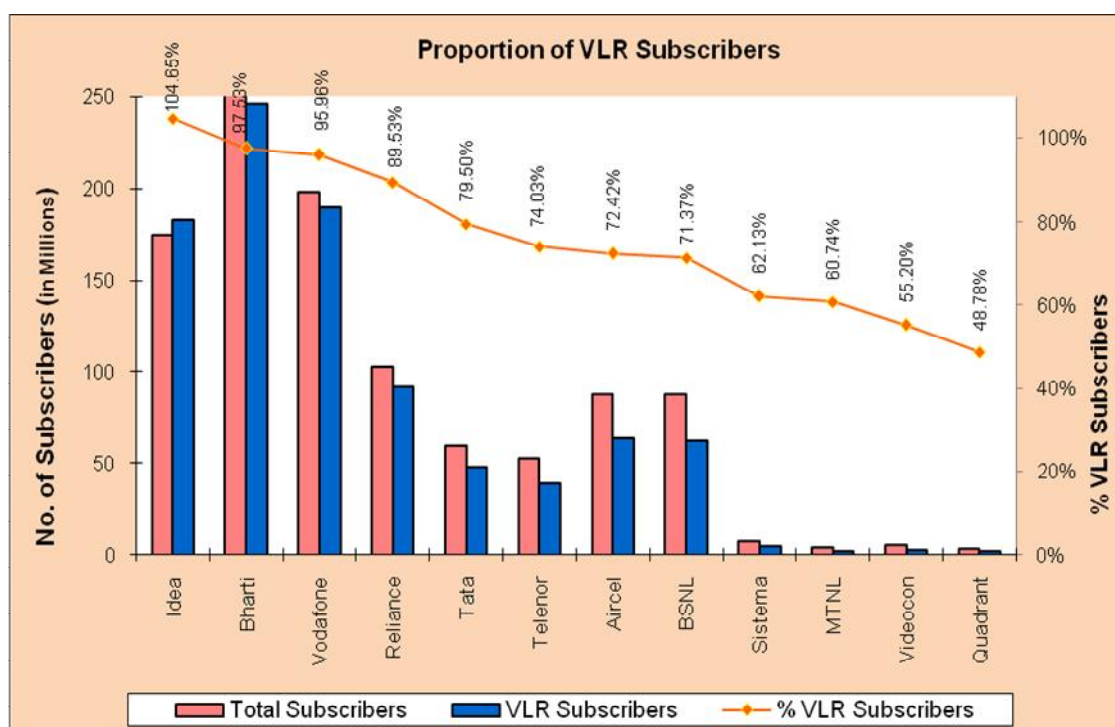
Net Additions in Wireless Subscriber Bases of Access Service Providers in the Month of April, 2016



IV. Active Wireless Subscribers (VLR Data)

- Out of the total wireless subscriber base (1,034.25 million), 934.08 million wireless subscribers were active on the date of peak VLR in the month of Apr-16. The proportion of active wireless subscribers was approximately 90.31% 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 Apr-16 is available at **Annexure-II** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

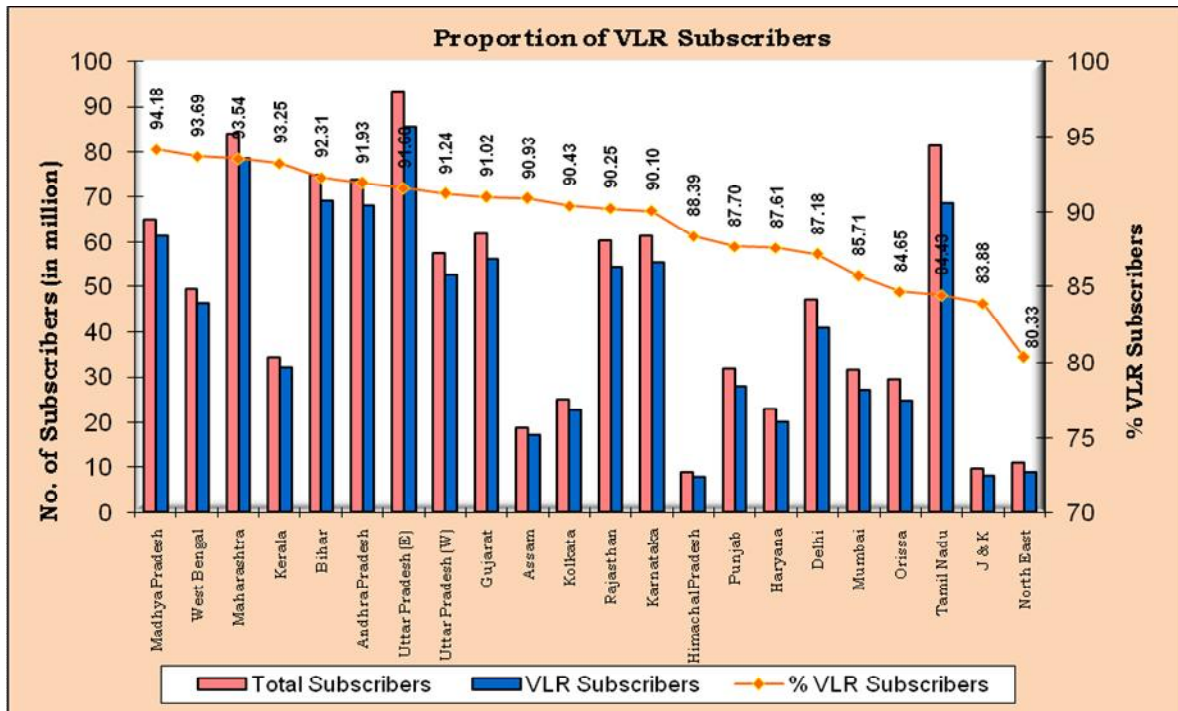
Access Service Provider-wise Proportion of VLR Subscribers in the Month of April, 2016



Note-

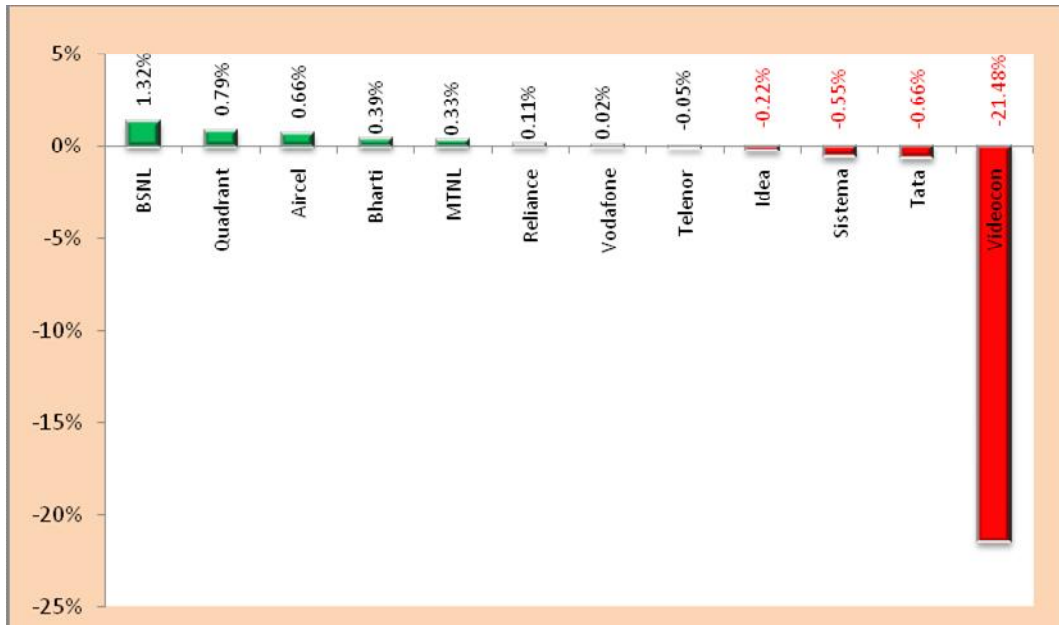
1. Number of VLR subscribers of Idea Cellular was more than its subscriber base due to a large number of inroamers in its network.

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

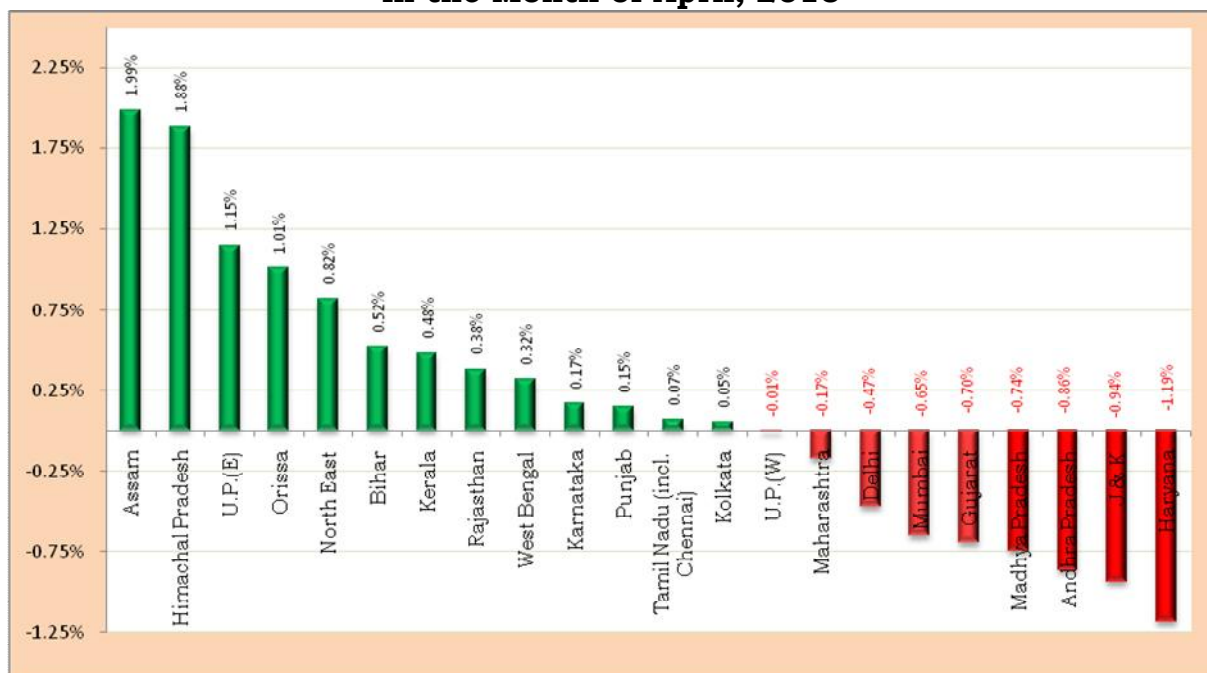


V. Growth in Wireless Subscribers

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



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



- Assam service area recorded the highest growth rate in wireless subscribers during the month of Apr-16, whereas Haryana service area showed maximum decline in wireless subscribers.

VI. Mobile Number Portability (MNP)

- Intra-service area Mobile number portability (MNP) has been implemented in Haryana service area w.e.f. 25.11.2010 and in the rest of the country w.e.f. 20.01.2011. Inter-Service Area MNP has been implemented in the country w.e.f. 03.07.2015. Now, the wireless telephone subscribers can retain their mobile numbers when they relocate from one service area to another.
- In the month of Apr-16, a total of 4.91 million requests were received for MNP. With this, the cumulative MNP requests increased from 209.13 million at the end of Mar-16 to 214.04 million at the end of Apr-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 18.59 million) followed by Gujarat (about 16.32 million).

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 23.83 million) followed by Andhra Pradesh (about 20.30 million).

Service Area Wise MNP Status at the end of April, 2016			
Zone - I		Zone - II	
Service Area	Number of Porting Requests	Service Area	Number of Porting Requests
Delhi	8,527,819	Andhra Pradesh	20,298,274
Gujarat	16,316,217	Assam	1,016,679
Haryana	8,042,707	Bihar	7,554,090
Himachal Pradesh	747,663	Karnataka	23,829,122
Jammu & Kashmir	76,354	Kerala	6,538,110
Maharashtra	15,116,608	Kolkata	4,768,917
Mumbai	11,743,365	Madhya Pradesh	14,157,646
Punjab	7,594,333	North East	422,942
Rajasthan	18,586,616	Orissa	4,429,382
Uttar Pradesh - East	10,040,816	Tamil Nadu	13,444,373
Uttar Pradesh - West	9,770,801	West Bengal	11,015,296
Total	106,563,299	Total	107,474,831
Total (Zone-I + Zone-II)			214,038,130
Net Addition (in April, 2016)			4,908,317

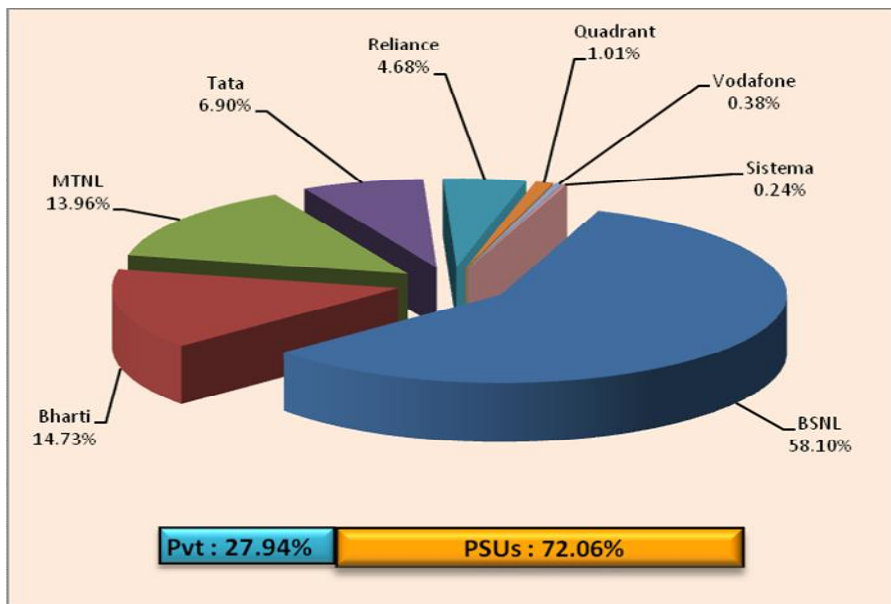
Note: For Zone-II, available MNP data for April, 2016 are provisional.

VII. Wireline Subscribers

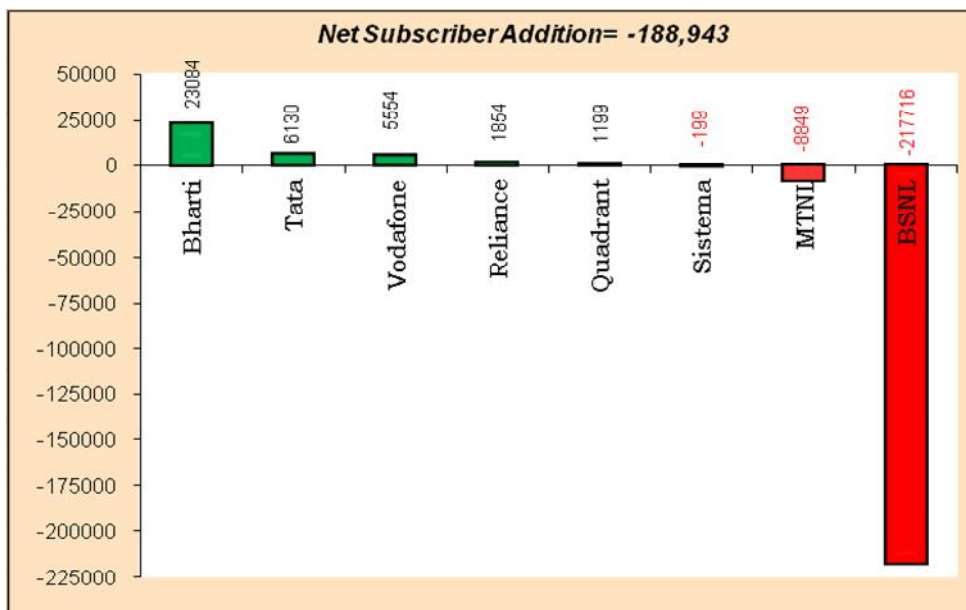
- Wireline subscriber base declined from 25.23 million at the end of Mar-16 to 25.04 million at the end of Apr-16. Net decline in the wireline subscriber base was 0.19 million with a monthly decline rate of 0.75%. The share of urban and rural subscribers in total wireline subscribers was 83.10% and 16.90% respectively at the end of Apr-16.
- The Overall Wireline Tele-density declined from 1.99 at the end of Mar-16 to 1.97 at the end of Apr-16. Urban Wireline Tele-density and Rural Wireline Tele-density were workout as 5.25 and 0.48 respectively.

- BSNL and MTNL, the two PSU access service providers, held 72.06% of the wireline market share. Detailed statistics of wireline subscriber base are available at **Annexure-III**.
- The graphical representation of service provider-wise market shares in the wireline segment and net additions in wireline subscriber bases in the month of Apr-16 are given below:

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



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



VIII. Broadband (\geq 512 Kbps download)

- As per the reports received from the service providers, the number of broadband subscribers increased from 149.75 Million at the end of Mar-16 to 151.09 million at the end of Apr-16 with a monthly growth rate of 0.89%. 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 April, 2016

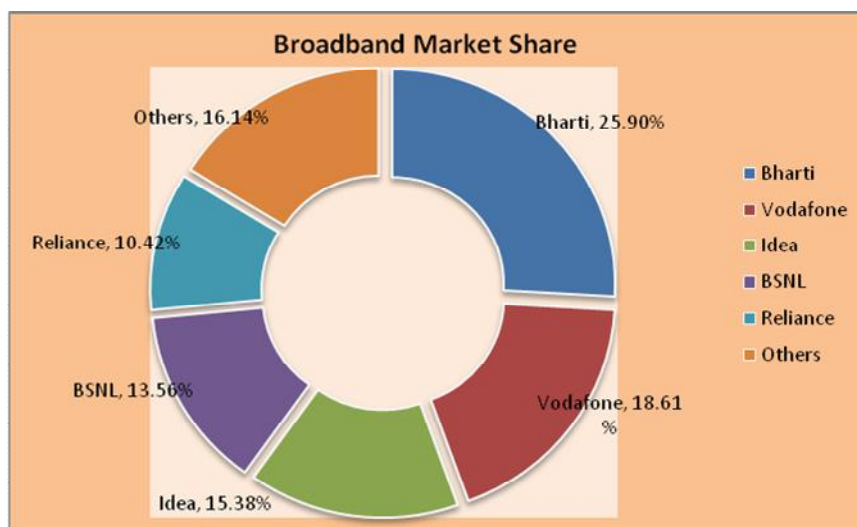
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of Apr-16
	As on 31 st March, 2016	As on 30 th April, 2016	
Wired subscribers	16.98	17.05	0.39%
Mobile devices users (Phones and dongles)	132.24	133.49	0.94%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.52	0.55	4.01%
Total	149.75	151.09	0.89%

- Top five service providers constituted 83.86% market share of the total broadband subscribers at the end of Apr-16. These service providers were Bharti Airtel (39.13 million), Vodafone (28.11 million), Idea Cellular (23.23 million), BSNL (20.48 million) and Reliance Communications Group (15.74 million).

Note : Some wireless service providers exclude incidental data users from their subscriber base, based on minimum usage decided by them.

- The graphical representation of the service provider-wise market share of broadband services is given below:

**Service Provider-wise Market Share of Broadband
(wired+wireless) Services as on 30.04.2016**



- As on 30th April, 2016, the top five Wired Broadband Service providers were BSNL (9.91 million), Bharti Airtel (1.76 million), MTNL (1.10 million), Atria Convergence Technologies (0.96 million) and YOU Broadband (0.54 million).
- As on 30th April, 2016, the top five Wireless Broadband Service providers were Bharti Airtel (37.37 million), Vodafone (28.11 million), Idea Cellular (23.23 million), Reliance Communications Group (15.61 million) and BSNL (10.58 million).

Contact details in case of any clarification:

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Authorized to issue:

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Pr. Advisor (F&EA)

Wireless Subscriber Base

Annexure-I

Circle	Group											
	Bharti		Reliance		Vodafone		Tata		Idea		Aircel	
	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16
Andhra Pradesh	23592784	23664526	5611249	5421044	7032368	6865224	4962611	4767284	15390077	15417153	2725320	2685198
Assam	5943777	6054937	1337953	1383527	3649556	3705296			1175401	1171233	5109583	5263651
Bihar	28421472	28560298	4489922	4574012	9499503	9487772	1688734	1687253	11184133	11046975	7065809	7143837
Delhi	11207790	11162010	8097724	8027144	10045493	10020796	2192037	2173194	6131926	6038187	6327144	6354618
Gujarat	8530459	8527810	5923507	6072137	19357609	19298837	2878694	2896262	12087098	12068364	17063	17063
Haryana	2934743	3042567	1958375	1943009	5476264	5417424	2785633	2861206	4642834	4670503	3092	3092
Himachal Pradesh	2742531	2859056	1749583	1751661	716728	718950	69516	68222	801146	803150	1092515	1095840
J & K	3340288	3303727	930371	893061	1062347	1049497			636451	645840	2544817	2516445
Karnataka	20874185	20874564	5893750	5969764	7669476	7653675	7274119	7241390	8414950	8411210	3095767	3125450
Kerala	4412144	4363959	2192179	2227152	7490687	7508131	1575054	1569032	10397873	10443233	292060	303736
Kolkata	4667382	4639464	4657717	4755734	5380984	5378891	2774173	2771849	2144452	2062465	4083162	4111846
Madhya Pradesh	12626117	12744771	12129248	11727225	6884697	6920742	4757032	4948247	21316755	21536864	20694	20694
Maharashtra	13436216	13434143	5606947	5588799	18491225	18496204	6577919	6375650	23364582	23435381	2609745	2616553
Mumbai	5783099	5746499	5763604	5695531	8643366	8654302	3306116	3236134	4200800	4133518	2858561	2871493
North East	3903133	3866002	375245	391492	1531194	1544467			503791	495103	3133041	3224032
Orissa	10314568	10440339	1874859	1908554	4113658	4164347	2250642	2271657	1742044	1722450	4625593	4634816
Punjab	8013787	7983668	1652868	1645549	5114504	5104212	2694392	2714307	6464695	6434870	1058525	1064842
Rajasthan	19375697	19462201	6682282	6716136	12164350	12159160	1506298	1529584	7795738	7702649	6442470	6461835
Tamil Nadu (incl. Chennai)	17244929	17364894	6820841	6918208	15527782	15522068	4795665	4678921	5860715	5760375	21589089	21643738
U.P.(E)	20852300	21068649	9353005	9542131	19003913	19182928	4084133	4022960	10828315	10853729	6896435	6952510
U.P.(W)	8334605	8280870	6024904	6081794	11572864	11567575	3472982	3442356	14489273	14368823	680246	697207
West Bengal	14685257	14770539	3281939	3285272	17518187	17572917	452238	445181	5500993	5464358	4815881	4850985
Total	251237263	252215493	102408072	102518936	197946755	197993415	60097988	59700689	175074042	174686433	87086612	87659481
Net Addition		978230		110864		46660		-397299		-387609		572869

Wireless Subscriber Base

Annexure-I (contd.)

Circle	Group														Net Addition	
	BSNL		MTNL		Telenor		Sistema		Videocon		Quadrant		Total			
	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16		
Andhra Pradesh	9650492	9585649			5685052	5598726								74649953	74004804	-645149
Assam	1316094	1321865												18532364	18900509	368145
Bihar	3285224	3362240			8806055	8968364			10009	9611				74450861	74840362	389501
Delhi			2318460	2318211			924066	927620						47244640	47021780	-222860
Gujarat	3604183	3676307			8904356	8554346	206366	208056	754570	511526				62263905	61830708	-433197
Haryana	3202110	3217005							2252375	1824934				23255426	22979740	-275686
Himachal Pradesh	1702674	1745025												8874693	9041904	167211
J & K	1294364	1307692												9808638	9716262	-92376
Karnataka	6946561	7027706					1166079	1135540						61334887	61439299	104412
Kerala	7574666	7685880					355554	354640						34290217	34455763	165546
Kolkata	781883	783501					534281	533275						25024034	25037025	12991
Madhya Pradesh	4361599	4449256							3529215	2791341				65625357	65139140	-486217
Maharashtra	5849854	5919866			8163400	8087104								84099888	83953700	-146188
Mumbai			1242396	1254236										31797942	31591713	-206229
North East	1537268	1552861												10983672	11073957	90285
Orissa	4140118	4212161												29061482	29354324	292842
Punjab	3582508	3655235										3163438	3188450	31744717	31791133	46416
Rajasthan	3969428	4140128					2107751	2101349						60044014	60273042	229028
Tamil Nadu (incl. Chennai)	8752792	8763328					750309	745476						81342122	81397008	54886
U.P.(E)	8901885	9079722			12307775	12584686			7989	7440				92235750	93294755	1059005
U.P.(W)	4257841	4345726			8588311	8636227	153244	146441	9604	9340				57583874	57576359	-7515
West Bengal	1634165	1654097					1493729	1496692						49382389	49540041	157652
Total	86345709	87485250	3560856	3572447	52454949	52429453	7691379	7649089	6563762	5154192	3163438	3188450	1033630825	1034253328	622503	
Net Addition		1139541		11591		-25496		-42290		-1409570		25012		622503		

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

Annexure-II

Circle	Aircel	Bharti	BSNL	Quadrant	Idea	MTNL	Reliance	Sistema	Tata	Telenor	Videocon	Vodafone	Total
Andhra Pradesh	60.07	99.65	72.40		104.24		98.32		89.75	75.87		86.95	91.93
Assam	90.36	99.15	86.10		100.29		4.67					109.28	90.93
Bihar	89.34	99.88	74.60		104.49		44.11		70.99	72.60	8.49	109.57	92.31
Delhi	60.87	89.96			99.48	54.57	96.99	49.47	55.47			103.40	87.18
Gujarat	2670.25	92.61	75.33		105.34		98.77	42.37	71.76	67.99	34.53	94.75	91.02
Haryana	0.52	95.61	56.80		103.23		96.60		82.21		61.94	96.27	87.61
Himachal Pradesh	53.46	99.05	76.56		111.56		95.16		36.86			90.45	88.39
J & K	89.88	88.71	71.70		96.31		58.19					83.65	83.88
Karnataka	58.37	99.57	60.91		104.48		97.61	70.03	86.43			88.79	90.10
Kerala	74.16	93.21	81.43		106.17		91.53	62.26	85.65			91.76	93.25
Kolkata	72.37	95.09	89.85		93.38		98.70	91.27	82.62			95.80	90.43
Madhya Pradesh	0.99	97.15	75.16		106.93		98.86		79.05		55.01	80.23	94.18
Maharashtra	57.77	96.55	78.16		105.85		98.32		80.66	74.15		97.22	93.54
Mumbai	56.09	90.14			95.32	72.14	96.01		77.56			86.26	85.71
North East	68.22	94.85	68.59		97.98		5.01					94.50	80.33
Orissa	66.31	97.60	78.18		104.01		18.22		81.79			103.12	84.65
Punjab	60.36	98.44	71.86	48.78	107.07		98.79		74.46			91.28	87.70
Rajasthan	52.18	97.39	76.15		105.44		99.20	60.28	110.19			91.95	90.25
Tamil Nadu (incl. Chennai)	70.76	98.39	64.88		94.60		95.75	54.35	73.06			94.98	84.43
U.P. (E)	82.66	99.39	62.34		110.00		99.00		75.81	76.93	13.04	99.00	91.60
U.P. (W)	107.65	97.86	63.93		102.28		99.10	53.61	75.17	75.99	7.84	94.63	91.24
West Bengal	88.93	99.23	91.28		109.98		19.90	63.61	55.53			102.84	93.69
Total	72.42	97.53	71.37	48.78	104.65	60.74	89.53	62.13	79.50	74.03	55.20	95.96	90.31

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																		Net Addition
	BSNL		MTNL		Bharti		Reliance		Tata		Quadrant		Sistema		Vodafone		Total		
	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	Mar-16	Apr-16	
Andhra Pradesh	1340655	1304282			145755	147119	75937	75897	164318	164041					9,240	9,450	1735905	1700789	-35116
Assam	158772	158653													1,770	1,860	160542	160513	-29
Bihar	311091	311153					6,883	6,879	13,134	13,182					930	1080	332038	332294	256
Delhi			1615433	1615829	1227042	1231072	174750	174724	132930	133920					21,030	21,360	3171185	3176905	5720
Gujarat	1172423	1144157			72192	72936	74762	74697	86802	87149					2,910	4,860	1409089	1383799	-25290
Haryana	3,05,885	3,00,228			20344	20599	4427	4427	38644	37881					30	30	369330	363165	-6165
Himachal Pradesh	1,64,336	1,60,139					4126	4126	2747	2748					0	60	171209	167073	-4136
J & K	1,31,214	1,29,768															131214	129768	-1446
Karnataka	1294726	1276766			596146	597841	148398	149666	206366	207514					9,750	9,810	2255386	2241597	-13789
Kerala	2187427	2157677			56574	56731	33623	33841	18115	18517					1440	1590	2297179	2268356	-28823
Kolkata	668964	661585			117242	117382	69214	69197	50059	50806					3630	3930	909109	902900	-6209
Madhya Pradesh	741227	736611			261310	262227	20471	20256	18222	18151					360	390	1041590	1037635	-3955
Maharashtra	1534836	1517126			74684	74762	82987	82876	284063	283986					10,650	11,010	1987220	1969760	-17460
Mumbai			1888655	1879410	349585	350435	250477	251483	534127	536090					16054	17408	3038898	3034826	-4072
North East	1,24,177	124071													150	150	124327	124221	-106
Orissa	294061	290712					3290	3290	8214	8230					930	960	306495	303192	-3303
Punjab	659460	646905			108897	110323	21276	21268	16882	16817	252803	254002			750	900	1060068	1050215	-9853
Rajasthan	646839	641008			46187	46368	20832	20814	11510	11552			59130	58931	1,950	1,860	786448	780533	-5915
Tamil Nadu (incl. Chennai)	1887457	1854577			504323	514832	134303	134251	107105	108552					7110	7440	2640298	2619652	-20646
U.P.(E)	390103	387896			61575	62079	35129	35111	15210	15390					990	1,080	503007	501556	-1451
U.P.(W)	388005	381704			21793	22027	7105	7105	10037	10091					480	480	427420	421407	-6013
West Bengal	360712	359636					1962	1898	3877	3875					60	60	366611	365469	-1142
Total	14762370	14544654	3504088	3495239	3663649	3686733	1169952	1171806	1722362	1728492	252803	254002	59130	58931	90214	95768	25224568	25035625	-188943
Net Addition		-217716		-8849		23084		1854		6130		1199		-199		5554		-188943	

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.