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Information Note to the Press

TELECOM REGULATORY AUTHORITY OF INDIA
New Delhi, 20th August, 2024
(www.trai.gov.in)

Highlights of Telecom Subscription Data as on 30th June, 2024

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Broadband Subscribers (Million)	**898.92**	**41.83**	**940.75**
Urban Telephone Subscribers (Million)	**635.00**	**32.13**	**667.13**
Net Addition in June, 2024 (Million)	0.90	0.34	1.24
Monthly Growth Rate	0.14%	1.07%	0.19%
Rural Telephone Subscribers (Million)	**535.53**	**2.98**	**538.51**
Net Addition in June, 2024 (Million)	0.67	0.03	0.71
Monthly Growth Rate	0.13%	1.13%	0.13%
Total Telephone Subscribers (Million)	**1170.53**	**35.11**	**1205.64**
Net Addition in June, 2024 (Million)	1.57	0.37	1.95
Monthly Growth Rate	0.13%	1.08%	0.16%
Overall Tele-density*(%)	**83.45%**	**2.50%**	**85.95%**
Urban Tele-density*(%)	127.03%	6.43%	133.46%
Rural Tele-density*(%)	59.32%	0.33%	59.65%
Share of Urban Subscribers	54.25%	91.51%	55.33%
Share of Rural Subscribers	45.75%	8.49%	44.67%

❖ In the month of June, 2024, 11.84 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 985.60 million at the end of May-24 to 997.44 million at the end of June-24, since implementation of MNP.

❖ Number of active wireless subscribers (on the date of peak VLR#) in June, 2024 was 1061.04 million.

Note:

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

* Based on the projection of population from the 'Report of the Technical Group on Population Projections for India and States 2011 – 2036', which is available under the link https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%202011-2036%20-%20upload_compressed_0.pdf

VLR is acronym of Visitor Location Register. The dates of peak VLR for various TSPs are different in different service areas.

I. Broadband Subscriber

- As per the information received from 1216 operators in June, 2024, in comparison to 1212 Operators in May 2024, the total Broadband Subscribers increased from 935.13 million at the end of May-24 to 940.75 million at the end of June-24 with a monthly growth rate of 0.60%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

**Segment–wise Broadband Subscribers and Monthly Growth Rate in the month of June, 2024**

Segment	Broadband subscribers (in million)		Monthly growth rate in the month of June, 2024
	As on 31st May 2024	As on 30th June 2024	
Wired subscribers	41.31	41.83	1.27%
Mobile devices users (Phones and dongles)	893.11	898.22	0.57%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.71	0.70	-1.53%
Total	**935.13**	**940.75**	**0.60%**

As on 30th June, 2024, top five Broadband

(Wired+Wireless) Service providers

S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	488.94
2.	Bharti Airtel Ltd.	281.36
3.	Vodafone Idea Ltd.	127.82
4.	Bharat Sanchar Nigam Ltd.	25.02
5.	Atria Convergence Technologies Limited	2.26
Market Share of Top Five Vs Total Broadband (Wired+Wireless)		**98.37%**

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

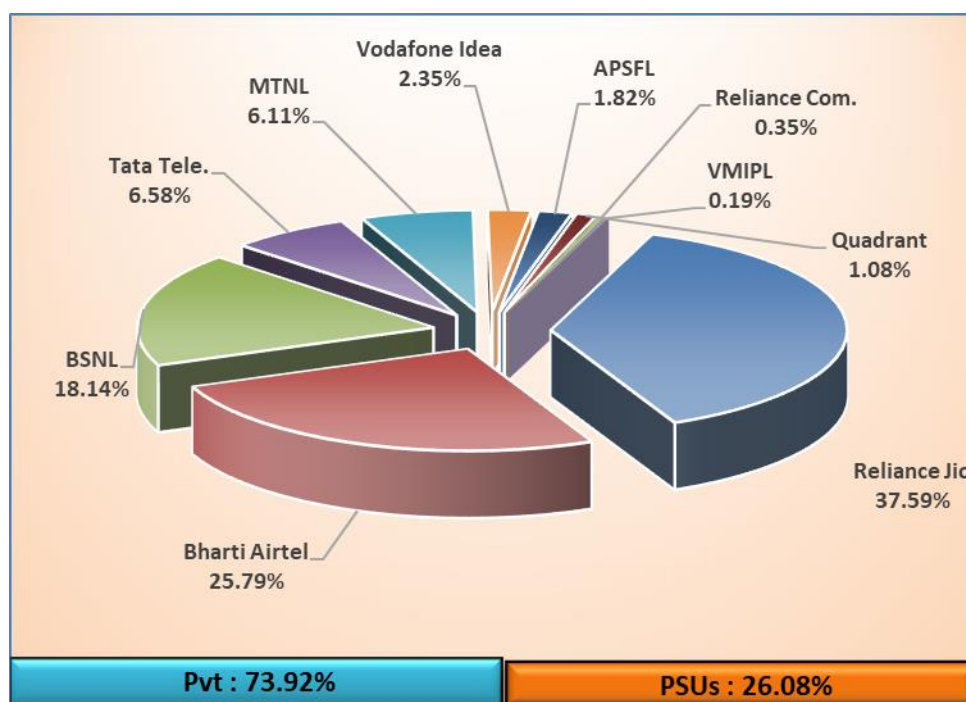**Service Provider-wise Market Share of Broadband (wired + wireless) Services as on 30th June, 2024**
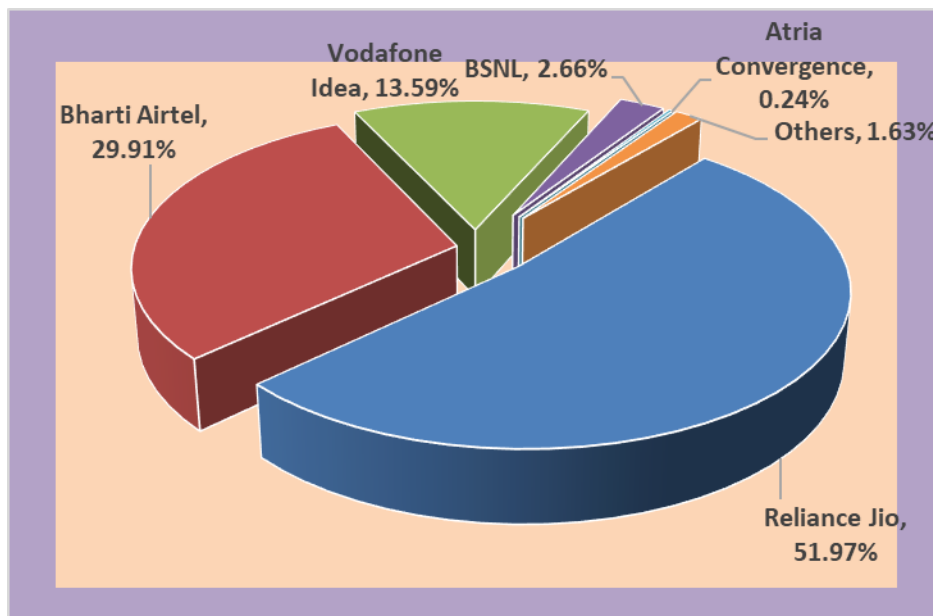
As on 30th June, 2024, top five <u>Wired</u> Broadband Service providers

S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	12.41
2.	Bharti Airtel Ltd.	8.04
3.	Bharat Sanchar Nigam Ltd.	4.19
4.	Atria Convergence Technologies Limited	2.26
5.	Kerala Vision Broadband Ltd.	1.16
Market Share of Top Five Vs Total Wired Broadband		**67.09%**

As on 30th June, 2024, top five <u>Wireless</u> Broadband Service providers

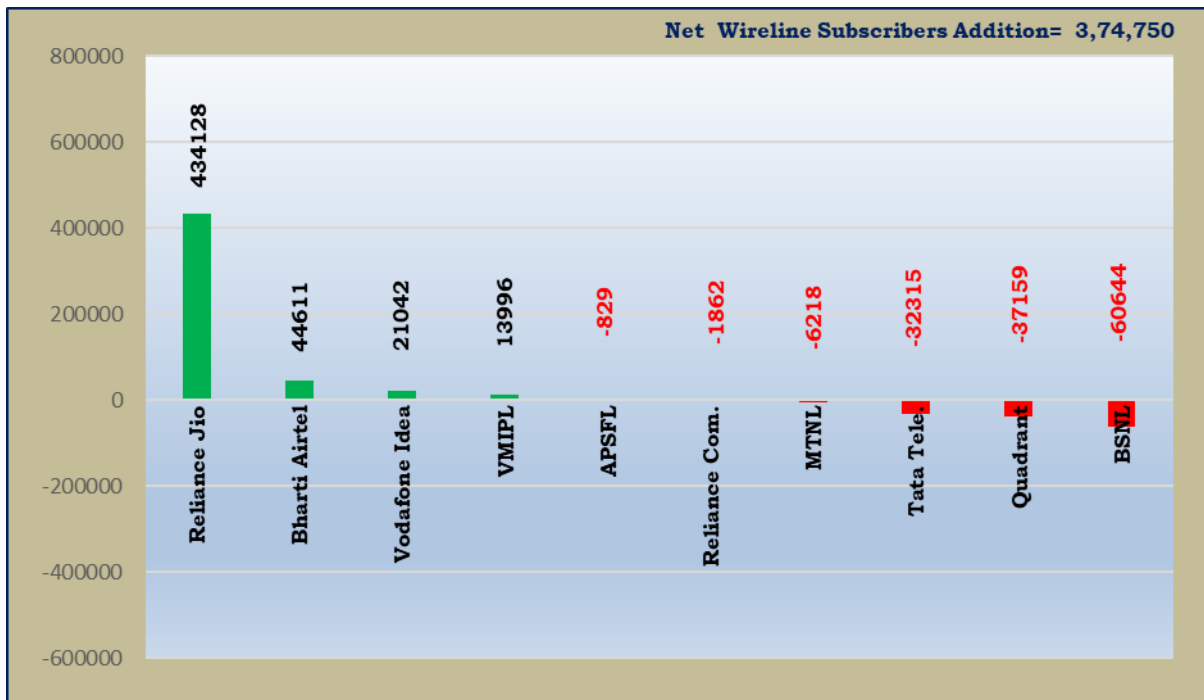| S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd.	476.53
2.	Bharti Airtel Ltd.	273.32
3.	Vodafone Idea Ltd.	127.82
4.	Bharat Sanchar Nigam Ltd.	20.83
5.	Intech Online Pvt. Ltd.	0.25
Market Share of Top Five Vs Total Wireless Broadband		**99.98%**

II. Wireline Subscribers

- Wireline subscribers increased from 34.73 million at the end of May-24 to 35.11 million at the end of Jun-24. Net increase in the wireline subscriber base was 0.37 million with a monthly rate of growth 1.08%. The share of urban and rural subscribers in total wireline subscribers were 91.51% and 8.49% respectively at the end of Jun, 2024.

- The Overall Wireline Tele-density in India increased from 2.48% at the end of May-24 to 2.50% at the end of Jun-24. Urban and Rural Wireline Tele-density were 6.43% and 0.33% respectively during the same period.

- BSNL, MTNL and APSFL, the three PSUs access service providers, held 26.08% of the wireline market share as on 30th June, 2024. Detailed statistics of wireline subscriber base are available at **Annexure-I**.

Access Service Provider-wise Market Share of Wireline Subscribers as on 30th June, 2024

Vodafone Idea 2.35%
APSFL 1.82%
Reliance Com. 0.35%
MTNL 6.11%
VMIPL 0.19%
Tata Tele. 6.58%
Quadrant 1.08%
BSNL 18.14%
Reliance Jio 37.59%
Bharti Airtel 25.79%
Pvt : 73.92%
PSUs : 26.08%

Access Service Provider-wise Net Addition/Decline in Wireline Subscribers during the month of June, 2024

Net Wireline Subscribers Addition= 3,74,750
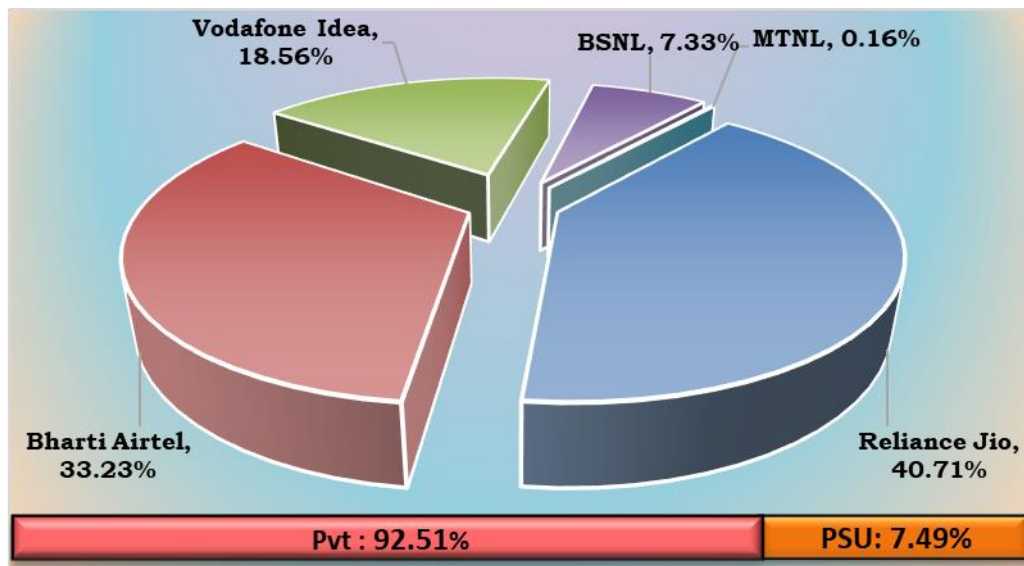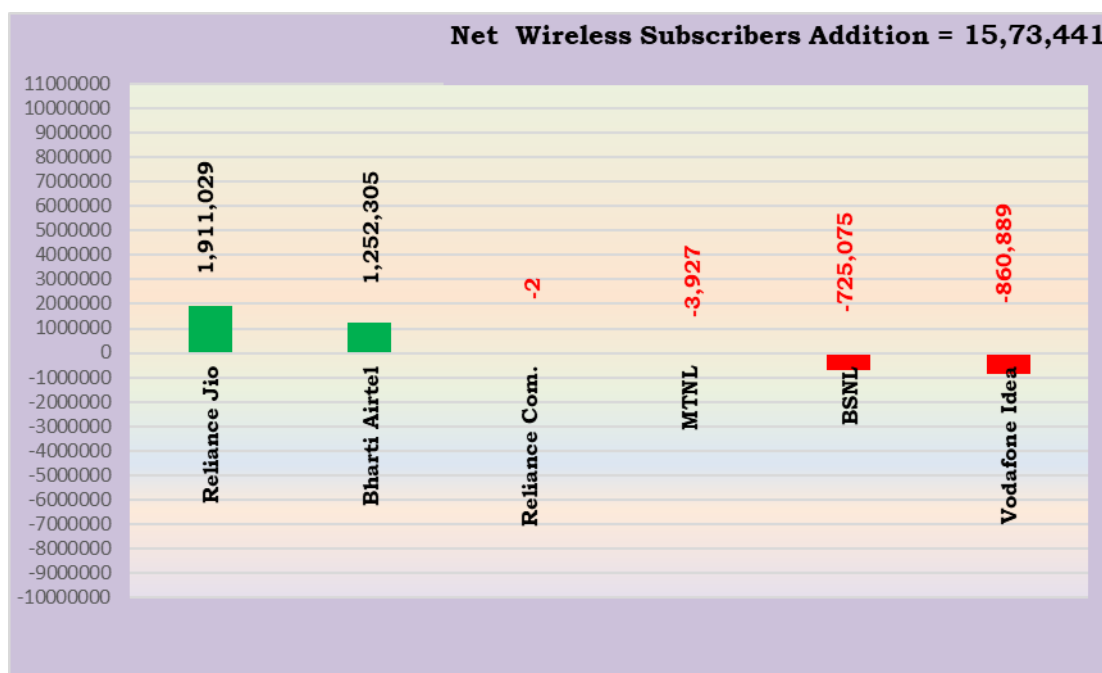
Service Provider	Net Addition/Decline
Reliance Jio	434128
Bharti Airtel	44611
Vodafone Idea	21042
VMIPL	13996
APSFL	-829
Reliance Com.	-1862
MTNL	-6218
Tata Tele.	-32315
Quadrant	-37159
BSNL	-60644

III. Wireless subscriber

- Total wireless subscribers increased from 1,168.95 million at the end of May-24, to 1,170.53 million at the end of June-24, thereby registering a monthly growth rate of 0.13%. Wireless subscription in urban areas increased from 634.10 million at the end of May-24 to 635 million at the end of June-24 and wireless subscription in rural areas also increased from 534.85 million to 535.53 million during the same period. Monthly growth rate of urban and rural wireless subscription was 0.14% and 0.13% respectively.

Total Wireless Subscribers (in Million)

Wireless Tele-density (%)

- The Wireless Tele-density in India increased from 83.40% at the end of May-24 to 83.45% at the end of June-24. The Urban Wireless Tele-density decreased from 127.04% at the end of May-24 to 127.03% at the end of June-24 however Rural Tele-density increased from 59.26% to 59.32% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.25% and 45.75% respectively at the end of Jun-24. Detailed statistics of wireless subscriber base is available at **Annexure-II**.

- As on 30th June, 2024, the private access service providers held 92.51% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 7.49%.

- The graphical representation of access service provider-wise market share and net additions in wireless subscriber base are given below: -

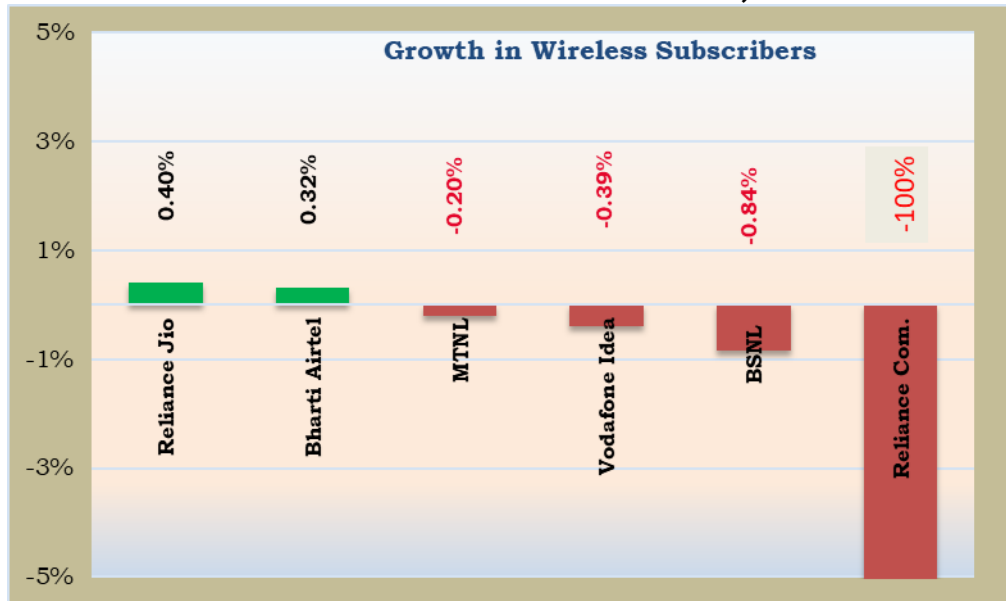**Access Service Provider-wise Market Shares in term of Wireless Subscribers as on 30th June, 2024**

Vodafone Idea, 18.56%

BSNL, 7.33% MTNL, 0.16%

Bharti Airtel, 33.23%

Reliance Jio, 40.71%

Pvt : 92.51%   PSU: 7.49%

Net Addition in Wireless Subscribers of Access Service Providers in the month of June, 2024

Net Wireless Subscribers Addition = 15,73,441

Provider	Net Addition
Reliance Jio	1,911,029
Bharti Airtel	1,252,305
Reliance Com.	-2
MTNL	-3,927
BSNL	-725,075
Vodafone Idea	-860,889

Growth in Wireless Subscribers

Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the month of June, 2024

Growth in Wireless Subscribers

Provider	Growth
Reliance Jio	0.40%
Bharti Airtel	0.32%
MTNL	-0.20%
Vodafone Idea	-0.39%
BSNL	-0.84%
Reliance Com.	-100%

Note: BSNL includes its Virtual Network Operator (VNO).

Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of June, 2024

Service Area	Growth
J & K	1.23%
Odisha	0.88%
Maharashtra	0.41%
Rajasthan	0.41%
North East	0.34%
Delhi	0.34%
Mumbai	0.33%
Madhya Pradesh	0.27%
Assam	0.18%
Andhra Pradesh	0.14%
Tamil Nadu	0.12%
U.P.(E)	0.12%
Gujarat	0.10%
Karnataka	0.03%
Bihar	0.03%
West Bengal	0.01%
Haryana	-0.06%
Punjab	-0.06%
U.P.(W)	-0.15%
Himachal Pradesh	-0.24%
Kerala	-0.43%
Kolkata	-1.14%
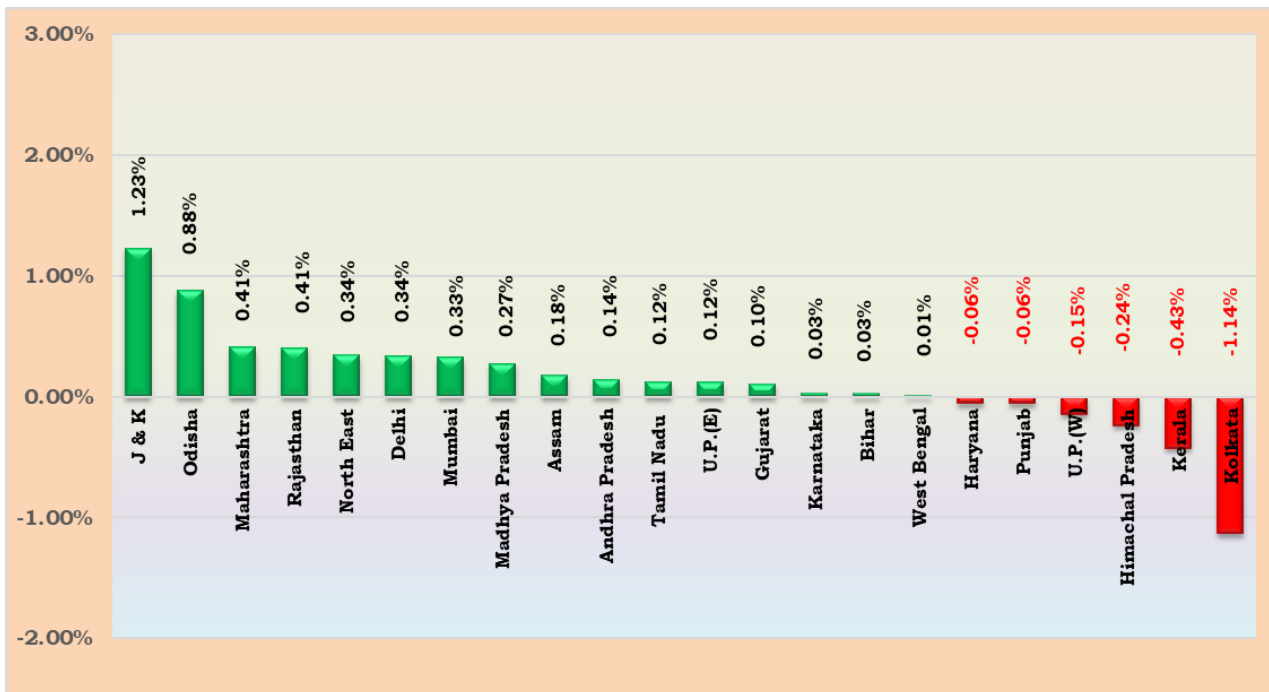
- Except Haryana, Punjab, U.P.(W), Himachal Pradesh, Kerala and Kolkata all other service areas have showed growth in their wireless subscribers during the month of June-24.

M2M cellular mobile connections

As on 30.06.2024, there were 52.52 million M2M cellular mobile connections. Bharti Airtel Limited has the highest number of M2M cellular mobile connections 28.29 million with a market share of 53.86% followed by Vodafone idea Limited, Reliance Jio Infocom Limited and BSNL with market share of 27.77%, 12.80% and 5.58% respectively.

M2M cellular mobile connections (in million)

Operator	Value
Bharti Airtel Limited	28.29
Vodafone idea Limited	14.58
Reliance Jio Infocom Limited	6.72
BSNL	2.93
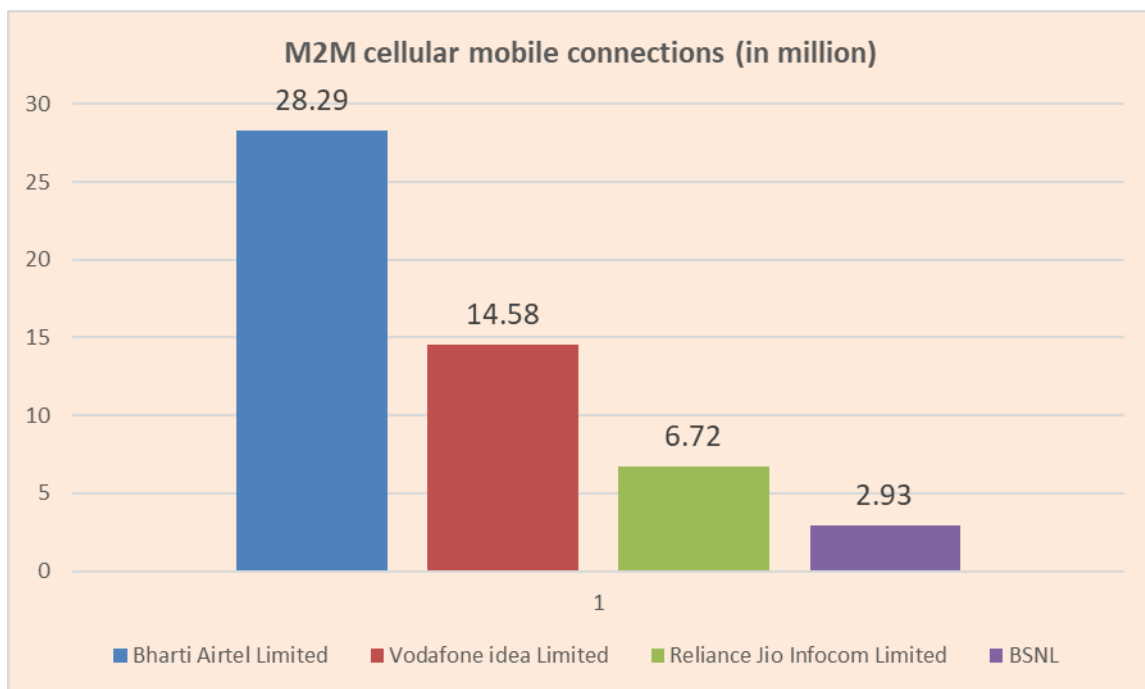
IV. Total Telephone Subscribers

- The number of total telephone subscribers in India increased from 1,203.69 million at the end of May-24 to 1,205.64 million at the end of June-24, thereby showing a monthly growth rate of 0.16%. Urban telephone subscription increased from 665.89 million at the end of May-24 to 667.13 million at the end of June-24 and the rural subscription also increased from 537.80 million to 538.51 million during the same period. The monthly growth rates of urban and rural telephone subscription were 0.19% and 0.13% respectively during the month of June-24.

TOTAL TELEPHONE SUBSCRIBERS (IN MILLION)

OVERALL TELE-DENSITY(%)
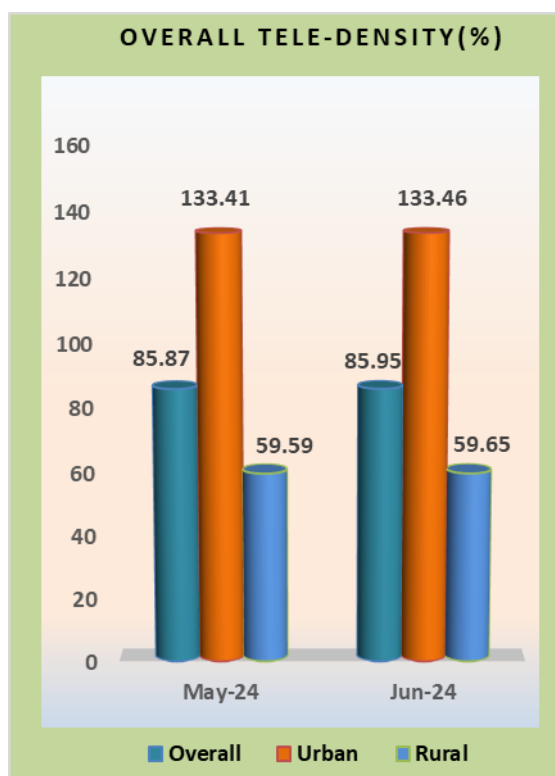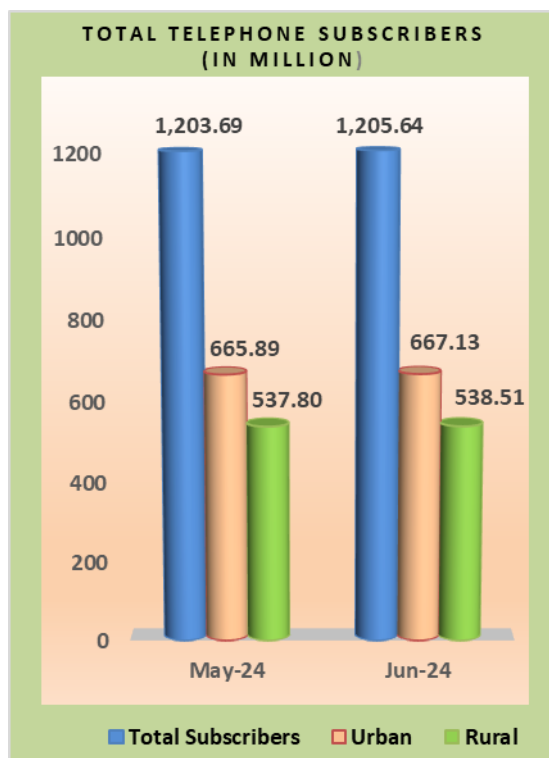
- The overall Tele-density in India increased from 85.87% at the end of May-24 to 85.95% at the end of June-24. The Urban Tele-density increased from 133.41% at the end of May-24 to 133.46% at the end of June-24 and Rural Tele-density also increased from 59.59% to 59.65% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of Jun-24 were 55.33% and 44.67% respectively.

Overall Tele-density (LSA Wise) – As on 30th June, 2024

Overall Tele-density (%)

LSA	Overall Tele-density (%)
Total (All India)	85.95
Bihar	57.42
Uttar Pradesh	67.33
Madhya Pradesh	69.41
Assam	74.25
Odisha	78.05
North East	81.58
West Bengal	82.27
Rajasthan	82.66
Haryana	88.64
Gujarat	90.96
J & K	91.48
Andhra Pradesh	95.87
Maharashtra	102.85
Tamil Nadu	103.63
Karnataka	103.99
Punjab	113.87
Himachal Pradesh	119.81
Kerala	120.90
Delhi	281.52
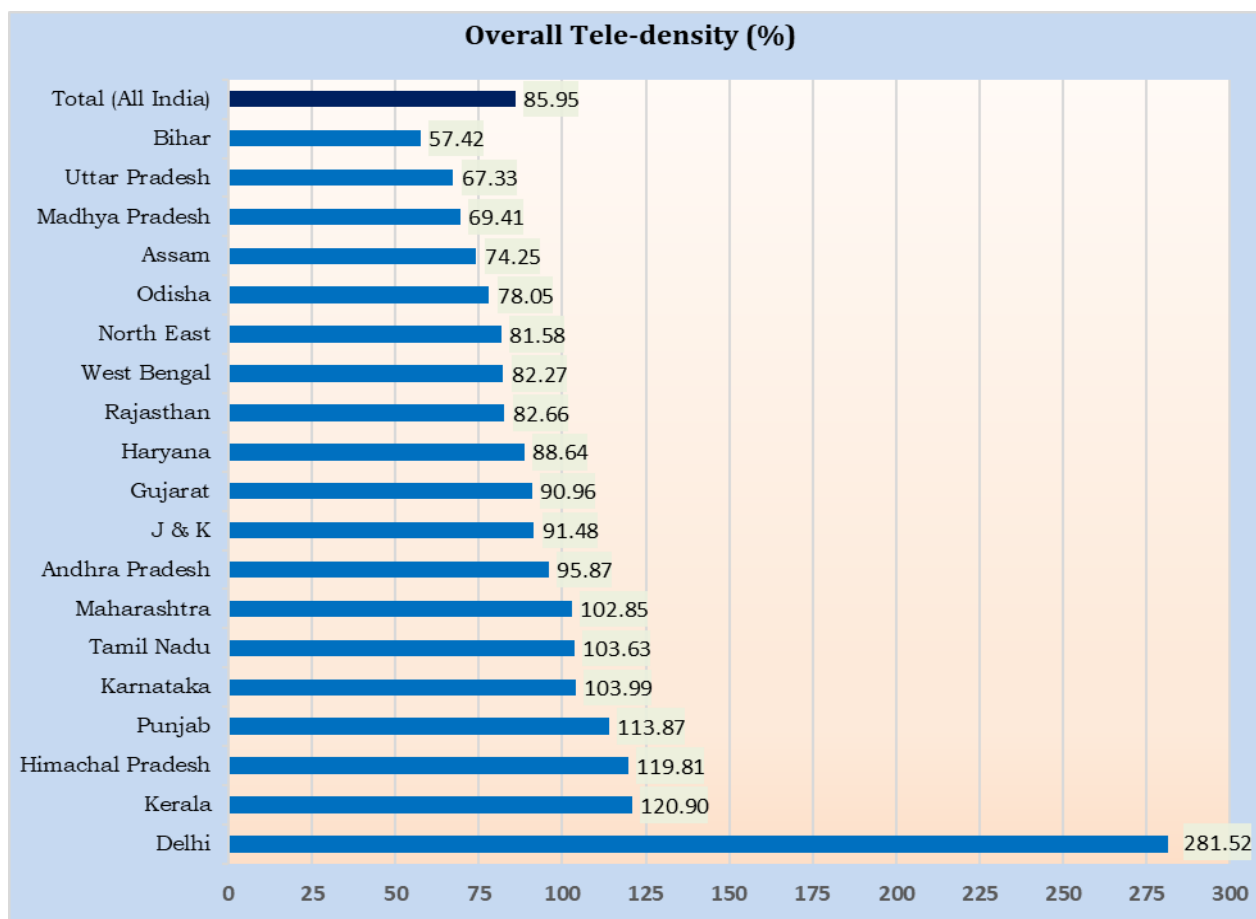
- As may be seen in the above chart, eight LSA have less tele-density than the all India average tele-density at the end of June-24. Delhi service area has maximum tele-density of 281.52% and the Bihar service area has minimum tele-density of 57.42% at the end of June-24.

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 projection of population from the "Report of the Technical Group on Population Projections for India and States 2011 – 2036, which is available under the link https://main.mohfw.gov.in/sites/default/files/Population%20Projection%20Report%20 2011-2036%20-%20upload_compressed_0.pdf
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 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.

V. Category-wise Growth in subscriber base

Circle Category-wise Net Additions in Telephone Subscribers in the month of June, 2024

Circle Category	Net additions in the month of June, 2024		Telephone Subscriber base as on 30th June, 2024	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	146003	684927	13669952	389391551
Circle B	105504	307019	9459267	475728400
Circle C	61089	542818	2822675	190807308
Metro	62154	38677	9156061	114601048
All India	**374750**	**1573441**	**35107955**	**1170528307**

Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of June, 2024

Circle Category	Monthly growth rate (%) (May-24 to June-24)		Yearly growth rate (%) (June-23 to June-24)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.08%	0.18%	14.69%	1.64%
Circle B	1.13%	0.06%	24.69%	2.54%
Circle C	2.21%	0.29%	28.53%	3.49%
Metro	0.68%	0.03%	6.31%	2.19%
All India	**1.08%**	**0.13%**	**15.81%**	**2.36%**

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, during the month of June, 2024, both on monthly and yearly basis all circles have registered growth rate in their subscriber base.

- In Wireline segment, during the month of June, 2024, both on monthly and yearly basis, all circles have registered growth rate in their subscriber base.

VI. Active Wireless Subscribers (VLR Data)

- Out of the total 1,170.53 million wireless subscribers, 1061.04 million wireless subscribers were active on the date of peak VLR in the month of June-24. The proportion of active wireless subscribers was approximately 90.65% 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 June-24 is available at **Annexure-III** 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 June, 2024
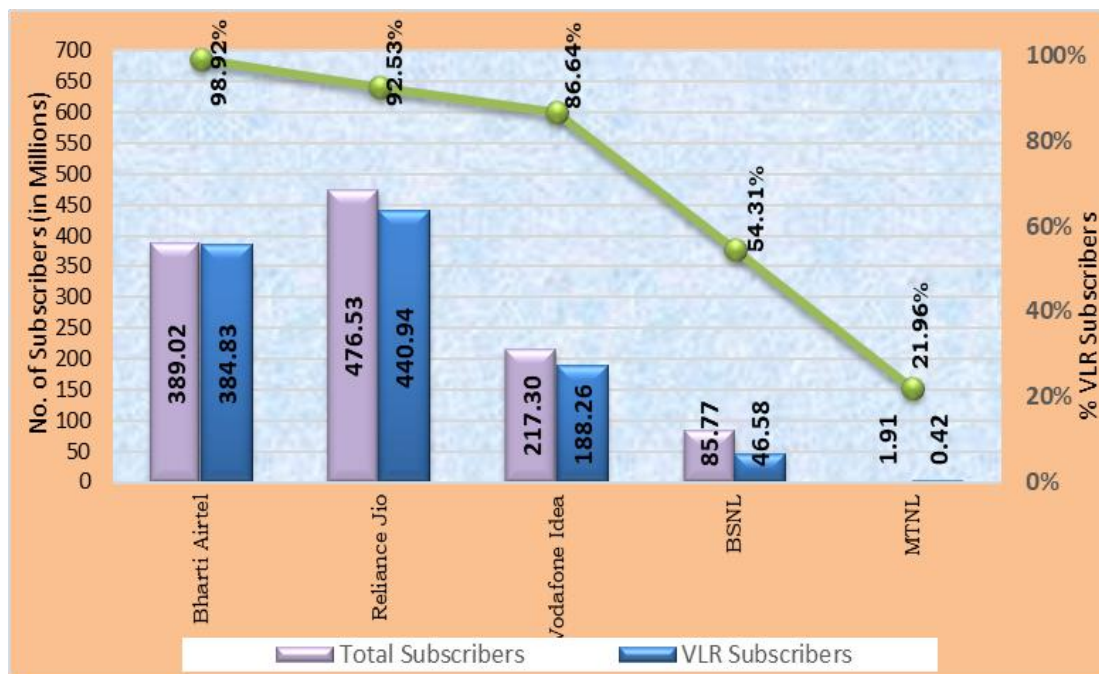
- Bharti Airtel Limited has the maximum proportion 98.92% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of

peak VLR in the month of June-24 and MTNL has the minimum proportion of VLR 21.96% of its HLR during the same period.

Service Area wise percentage of VLR Subscribers in the month of June, 2024

Legend: Total Subscribers | VLR Subscribers | % VLR Subscribers

Service Area	Total Subscribers	% VLR Subscribers
North East	12.74	100.95
West Bengal	58.14	97.61
Maharashtra	93.34	96.84
HP	8.83	95.87
Gujarat	65.67	95.61
Kerala	42.01	95.17
Odisha	34.17	92.53
Karnataka	67.51	92.27
Assam	26.50	92.12
Punjab	34.97	92.04
U.P.(W)	63.84	91.86
Andhra Pradesh	84.15	91.14
Rajasthan	66.86	90.05
Madhya Pradesh	80.49	89.97
Kolkata	23.22	89.47
U.P.(E)	102.83	89.08
Tamil Nadu	78.73	88.95
J & K	12.42	87.83
Bihar	96.16	86.87
Haryana	26.59	86.52
Mumbai	34.34	78.75
Delhi	57.05	77.96

VII. 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 June-24, a total of 11.84 million requests were received for MNP. Out of total 11.84 million, new requests received from Zone-I & Zone-II were 6.53 million and 5.32 million respectively. The cumulative MNP requests increased from 985.60 million at the end of May-24 to 997.44 million at the end of June-24, since the implementation of MNP.

- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Uttar Pradesh-East (about 94.97 million) followed by Maharashtra (about 81.67 million) service area.

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Madhya Pradesh (about 77.41 million) followed by Karnataka (about 68.36 million).

Service Area Wise MNP Status					
Zone-I			**Zone–II**		
Service Area	**Number of Porting Requests (in Million)**		**Service Area**	**Number of Porting Requests (in Million)**	
	May-24	**June-24**		**May-24**	**June-24**
Delhi	47.39	47.92	Andhra Pradesh	66.11	66.65
Gujarat	67.22	67.96	Assam	7.10	7.22
Haryana	31.23	31.56	Bihar	54.84	55.75
Himachal Pradesh	4.21	4.25	Karnataka	67.80	68.36
Jammu & Kashmir	2.58	2.64	Kerala	23.85	24.07
Maharashtra	80.77	81.67	Kolkata	18.23	18.40
Mumbai	33.61	33.84	Madhya Pradesh	76.35	77.41
Punjab	32.98	33.26	North East	2.26	2.29
Rajasthan	67.42	68.15	Odisha	17.43	17.62
U.P.(East)	93.42	94.97	Tamil Nadu	63.10	63.68
U.P.(West)	70.98	72.12	West Bengal	56.74	57.66
Total	**531.81**	**538.34**	**Total**	**453.79**	**459.11**
Total (Zone-I + Zone-II)				**985.60**	**997.44**
Net Addition (June, 2024)		**11.84 million**			

Contact details in case of any clarification: -

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(Atul Kumar Chaudhary)
Secretary, TRAI

Service Area	BSNL		MTNL		Bharti Airtel		Reliance Com.		Tata Tele.		Quadrant		Vodafone Idea		Reliance Jio		V-CON Mobile & Infra Pvt. Ltd.		APSFL		Total		Net Addition
	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	
Andhra Pradesh	545190	537332			691981	674809	18380	18289	260368	249336			93585	105785	1526833	1577091			639952	639123	3776289	3801765	25476
Assam	91,771	91,181			35046	36103	0	0	0	0			2520	2520	210170	218465					339507	348269	8762
Bihar	163,065	161,698			242182	245655	9	9	10892	10838			5440	5440	624048	647653					1045636	1071293	25657
Delhi	0	0	986617	984974	2152970	2179646	16937	16631	217325	219549			83231	83291	1049105	1072567					4506185	4556658	50473
Gujarat	301179	297829			282378	287464	2770	2764	178581	180054			104496	108556	773520	805665					1642924	1682332	39408
Haryana	215925	216521			194241	176167	0	0	40325	41300			420	420	170759	180871					621670	615279	-6391
Himachal Pradesh	90931	92709			10384	10405	0	0	1461	1460			90	90	70392	73585					173258	178249	4991
J & K	69348	68007			118691	120007	0	0	0	0			30	30	229733	236144					417802	424188	6386
Karnataka	520752	512644			1239819	1254991	16229	16033	454702	436551			152070	153310	1064193	1098347					3447765	3471876	24111
Kerala	1081500	1075167			108028	109484	3030	2962	18190	18094			6490	6510	338065	349902					1555303	1562119	6816
Kolkata	182219	182190			209002	207732	4943	4430	64244	64267			15450	15500	555892	568075					1031750	1042194	10444
Madhya Pradesh	239802	237419			571587	568274	5	5	47121	48187			67130	69130	870676	897176					1796321	1820191	23870
Maharashtra	550958	541901			514832	518198	7661	7650	222739	224176			20116	20146	378562	408507					1694868	1720578	25710
Mumbai	3561	3561	1165615	1161040	613152	617385	35859	35423	620063	608967			179094	179134	938628	951699					3555972	3557209	1237
North East	65766	65163			0	0	0	0	0	0			510	510	199409	205437					265685	271110	5425
Odisha	145016	143573			58258	59873	4	4	12889	12386			3570	3770	299961	309960					519698	529566	9868
Punjab	508274	509732			300157	302202	1847	1847	16402	16389	414969	377810	1590	1590	439716	460747	53998	67994			1736953	1738311	1358
Rajasthan	253405	250863			280790	283566	3367	3331	24100	24009			11885	11885	482421	503211					1055968	1076865	20897
Tamil Nadu	907324	899803			929198	936696	14758	14561	132621	133487			33093	34215	945109	974639					2962103	2993401	31298
U.P.(E)	121482	118866			224652	233680	34	32	10998	11600			17330	17350	619659	644627					994155	1026155	32000
U.P.(W)	177125	171199			171936	170502	8	8	7269	7314			4111	4111	687466	711137					1047915	1064271	16356
West Bengal	195390	191981			59882	60938	26	26	2674	2685			150	150	287356	300296					545478	556076	10598
Total	6429983	6369339	2152232	2146014	9009166	9053777	125867	124005	2342964	2310649	414969	377810	802401	823443	12761673	13195801	53998	67994	639952	639123	34733205	35107955	374750
Net Addition		-60644		-6218		44611		-1862		-32315		-37159		21042		434128		13996		-829		374750	
Rural Subscribers	2124267	2126059	32	32	2526	2537	357	357	7124	7008	39095	54947	0	0	301649	318166		0	473564	472951	2948614	2982057	33443

	Bharti Airtel (including Tata Tele.)		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
Circle	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	May-24	Jun-24	
Andhra Pradesh	34010404	34108778	0	0	10727601	10689294	6295338	6279421					32994663	33070341	84028006	84147834	119828.00
Assam	11,905,489	11966802	0	0	1544938	1523045	2977451	2976580					10024600	10032509	26452478	26498936	46458
Bihar	41,474,249	41485026	0	0	7713573	7651158	5256069	5201342					41687594	41820105	96131485	96157631	26146
Delhi	18281949	18306388	0	0	16500155	16594301					1685013	1684323	20388694	20464520	56855811	57049532	193721
Gujarat	11924385	11944421	0	0	20479326	20379486	2675956	2679193					30516865	30661946	65596532	65665046	68514
Haryana	7028290	7091863	0	0	6728877	6717606	4055885	4055837					8796184	8728108	26609236	26593414	-15822
Himachal Pradesh	3581035	3595981	0	0	395676	392830	1507563	1513110					3365275	3326252	8849549	8828173	-21376
J & K	6096286	6179394	0	0	293024	286760	775103	778473					5099769	5170633	12264182	12415260	151078
Karnataka	32384375	32470623	2	0	6442419	6468809	4174103	4120157					24484441	24446440	67485340	67506029	20689
Kerala	8746805	8806722	0	0	13561115	13463485	8795341	8586971					11083502	11148150	42186763	42005328	-181435
Kolkata	5660012	5660644	0	0	5263082	5243235	1573316	1368962					10986067	10942648	23482477	23215489	-266988
Madhya Pradesh	16228824	16303993	0	0	15436309	15365624	4659304	4696704					43944459	44122953	80268896	80489274	220378
Maharashtra	21919771	22077455	0	0	21981186	21905959	5655254	5676824					43407659	43684161	92963870	93344399	380529
Mumbai	10117220	10141827	0	0	10705134	10715322					233680	230443	13168049	13248435	34224083	34336027	111944
North East	6348113	6363875	0	0	744341	725562	1,233,208	1228962					4366518	4417294	12692180	12735693	43513
Odisha	11631129	11681370	0	0	1416414	1398255	5,334,229	5326387					15492844	15765603	33874616	34171615	296999
Punjab	12609543	12593886	0	0	6444950	6411404	3,720,785	3714894					12216608	12250641	34991886	34970825	-21061
Rajasthan	23474299	23591034	0	0	10551397	10485204	5,521,645	5523352					27037993	27257245	66585334	66856835	271501
Tamil Nadu	29681291	29845231	0	0	15495199	15450255	7,419,439	7,323,605	167,635	188,010			25869312	25921142	78632876	78728243	95367
U.P.(E)	37426815	37400385	0	0	17245091	17104862	7,475,025	7473038					40563725	40853555	102710656	102831840	121184
U.P.(W)	18962036	19004620	0	0	15510494	15399180	4,890,092	4747091					24574153	24691463	63936775	63842354	-94421
West Bengal	18275872	18400179	0	0	12977375	12925151	2,331,371	2310124					24547217	24503076	58131835	58138530	6695
Total	387768192	389020497	2	0	218157676	217296787	86326477	85581027	167635	188010	1918693	1914766	474616191	476527220	1168954866	1170528307	1573441
Net Addition		1252305		-2		-860889		-745450				20375		-3927		1911029	0	1573441
Rural Subscribers	190,924,927	191,133,987	0	0	107195606	106720671	27,230,804	27,158,268	0	0	35217	35202	209466901	210479993	534853455	535528121	674666

Wireless Subscriber Base
Annexure-II

Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	98.17	62.41	89.28		–	89.94	**91.14**
Assam	102.54	26.93	93.98		–	98.74	**92.12**
Bihar	90.86	34.43	85.31		–	89.73	**86.87**
Delhi	90.49		56.94	15.05	–	88.97	**77.96**
Gujarat	105.67	67.51	93.11		–	95.81	**95.61**
Haryana	103.98	28.60	91.13		–	95.70	**86.52**
Himachal Pradesh	104.67	53.64	114.97		–	103.32	**95.87**
J & K	93.90	64.39	85.11		–	84.26	**87.83**
Karnataka	98.53	60.59	79.76		–	92.59	**92.27**
Kerala	103.11	98.28	93.47		–	88.55	**95.17**
Kolkata	92.53	63.45	88.23		–	91.73	**89.47**
Madhya Pradesh	103.35	41.92	83.40		–	92.43	**89.97**
Maharashtra	107.85	62.90	90.71		–	98.75	**96.84**
Mumbai	80.64		70.21	72.46	–	84.31	**78.75**
North East	104.17	51.55	93.67		–	111.27	**100.95**
Odisha	103.43	47.55	96.70		–	99.29	**92.53**
Punjab	105.83	45.81	92.14		–	91.82	**92.04**
Rajasthan	99.93	40.23	89.08		–	91.96	**90.05**
Tamil Nadu	98.29	73.92	89.70		–	82.12	**88.95**
U.P. (E)	96.40	33.66	89.36		–	92.39	**89.08**
U.P. (W)	104.18	36.94	95.16		–	90.87	**91.86**
West Bengal	104.92	66.22	91.78		–	98.15	**97.61**
Total	**98.92**	**54.31**	**86.64**	**21.96**	–	**92.53**	**90.65**

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.

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.