

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 19th June, 2024

(www.trai.gov.in)

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

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Broadband Subscribers (Million)	887.70	40.71	928.41
Urban Telephone Subscribers (Million)	633.53	31.36	664.89
Net Addition in April, 2024 (Million)	-0.93	0.44	-0.49
Monthly Growth Rate	-0.15%	1.44%	-0.07%
Rural Telephone Subscribers (Million)	533.42	2.90	536.33
Net Addition in April, 2024 (Million)	2.40	0.03	2.43
Monthly Growth Rate	0.45%	0.92%	0.45%
Total Telephone Subscribers (Million)	1166.96	34.26	1201.22
Net Addition in April, 2024 (Million)	1.47	0.47	1.94
Monthly Growth Rate	0.13%	1.39%	0.16%
Overall Tele-density*(%)	83.31%	2.45%	85.76%
Urban Tele-density*(%)	127.12%	6.29%	133.42%
Rural Tele-density*(%)	59.12%	0.32%	59.44%
Share of Urban Subscribers	54.29%	91.53%	55.35%
Share of Rural Subscribers	45.71%	8.47%	44.65%

- ❖ In the month of April, 2024, 11.07 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 962.53 million at the end of March-24 to 973.60 million at the end of April-24, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in April, 2024 was 1057.66 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 1,203 operators in April, 2024, in comparison to 1158 Operators in March 2024, the total Broadband Subscribers increased from 924.07 million at the end of March-24 to 928.41 million at the end of April-24 with a monthly growth rate of 0.47%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of April, 2024

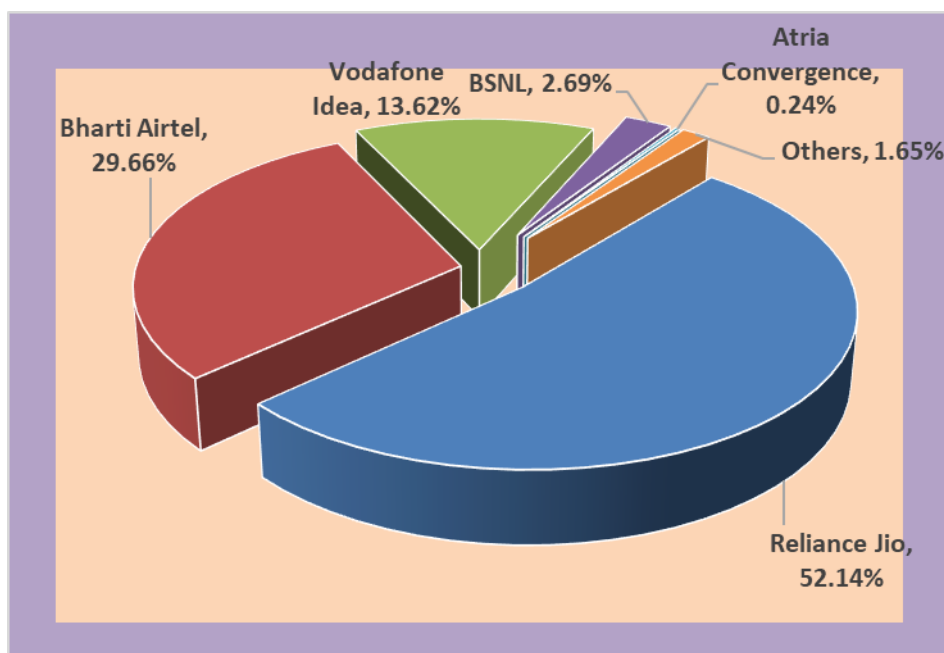
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of April, 2024
	As on 31 st March 2024	As on 30 th April 2024	
Wired subscribers	40.06	40.71	1.64%
Mobile devices users (Phones and dongles)	883.22	886.97	0.43%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.79	0.73	-8.02%
Total	924.07	928.41	0.47%

As on 30th April, 2024, top five Broadband (Wired+Wireless) Service providers

S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	484.04
2.	Bharti Airtel Ltd.	275.41
3.	Vodafone Idea Ltd.	126.44
4.	Bharat Sanchar Nigam Ltd.	24.98
5.	Atria Convergence Technologies Limited	2.25
Market Share of Top Five Vs Total Broadband (Wired+Wireless)		98.35%

- 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 April, 2024**



As on 30th April, 2024, top five Wired Broadband Service providers

S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	11.62
2.	Bharti Airtel Ltd.	7.84
3.	Bharat Sanchar Nigam Ltd.	4.14
4.	Atria Convergence Technologies Limited	2.25
5.	ONEOTT ENTERTAINMENT LIMITED	1.17
Market Share of Top Five Vs Total Wired Broadband		66.38%

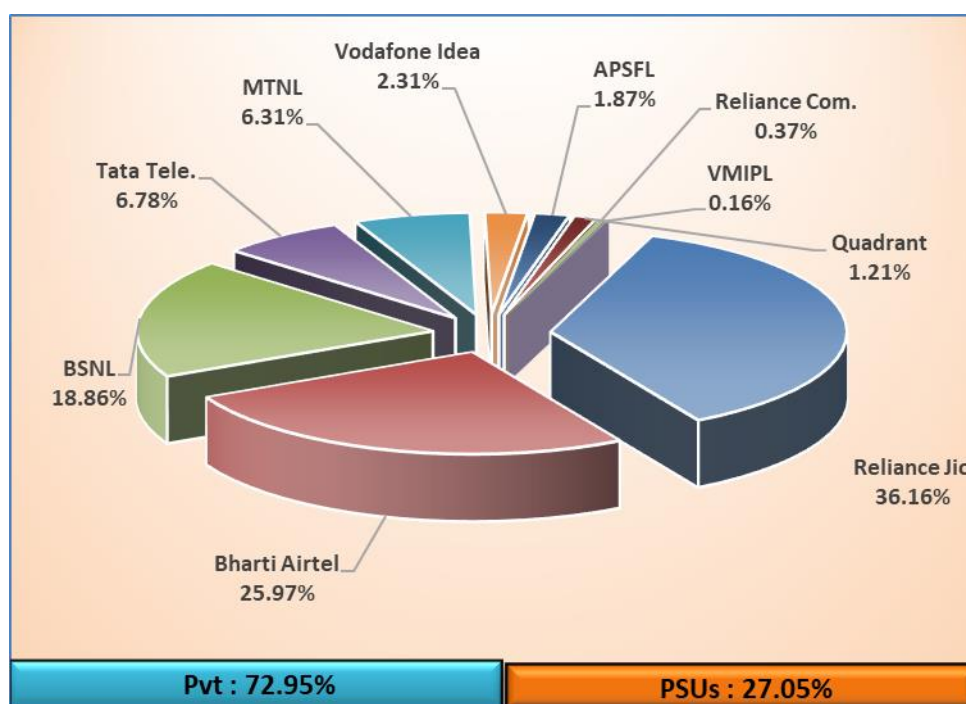
As on 30th April, 2024, top five Wireless Broadband Service providers

S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	472.42
2.	Bharti Airtel Ltd.	267.57
3.	Vodafone Idea Ltd.	126.43
4.	Bharat Sanchar Nigam Ltd.	20.84
5.	Intech Online Pvt. Ltd.	0.24
Market Share of Top Five Vs Total Wireless Broadband		99.98%

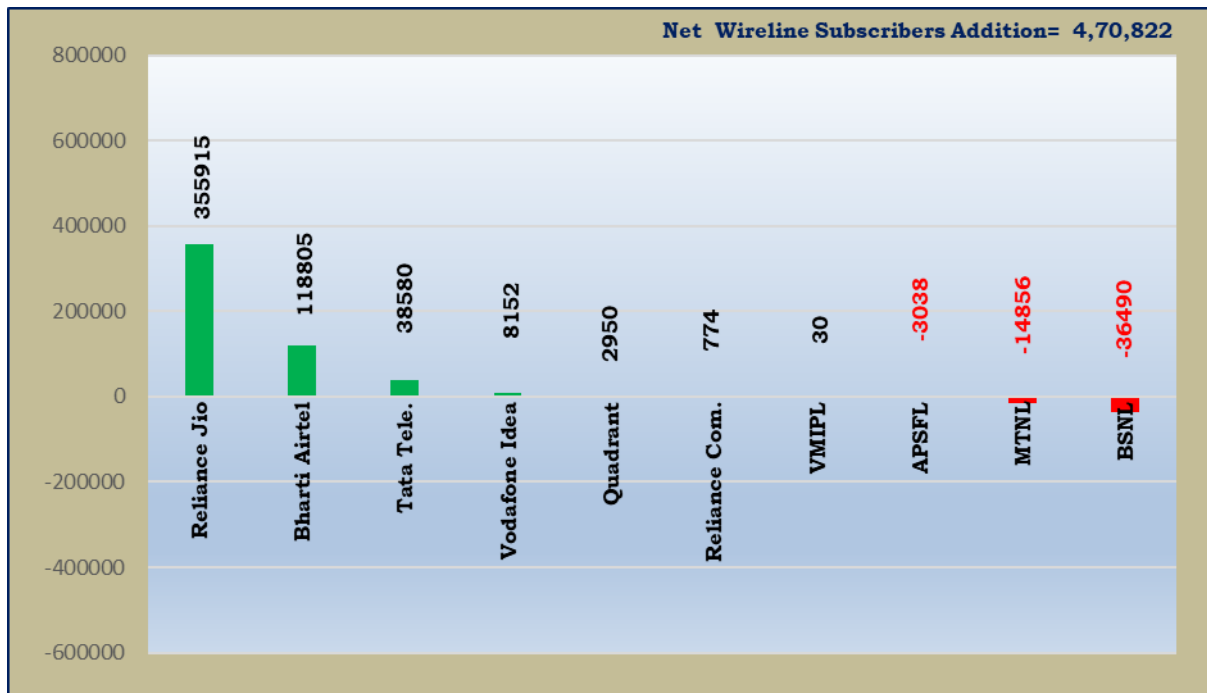
II. Wireline Subscribers

- Wireline subscribers increased from 33.79 million at the end of March-24 to 34.26 million at the end of April-24. Net increase in the wireline subscriber base was 0.47 million with a monthly rate of growth 1.39%. The share of urban and rural subscribers in total wireline subscribers were 91.53% and 8.47% respectively at the end of April, 2024.
- The Overall Wireline Tele-density in India increased from 2.41% at the end of March-24 to 2.45% at the end of April-24. Urban and Rural Wireline Tele-density were 6.29% and 0.32% respectively during the same period.
- BSNL, MTNL and APSFL, the three PSUs access service providers, held 27.05% of the wireline market share as on 30th April, 2024. Detailed statistics of wireline subscriber base are available at **Annexure-I**.

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

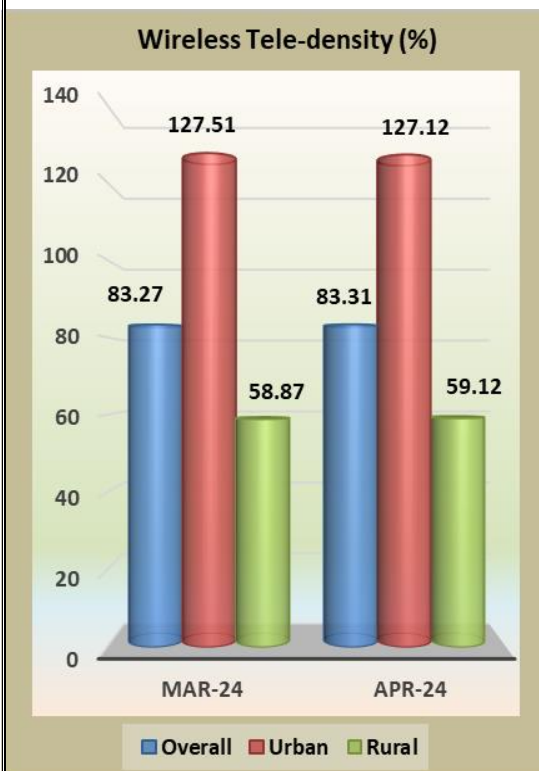


Access Service Provider-wise Net Addition/Decline in Wireline Subscribers during the month of April, 2024



III. Wireless subscriber

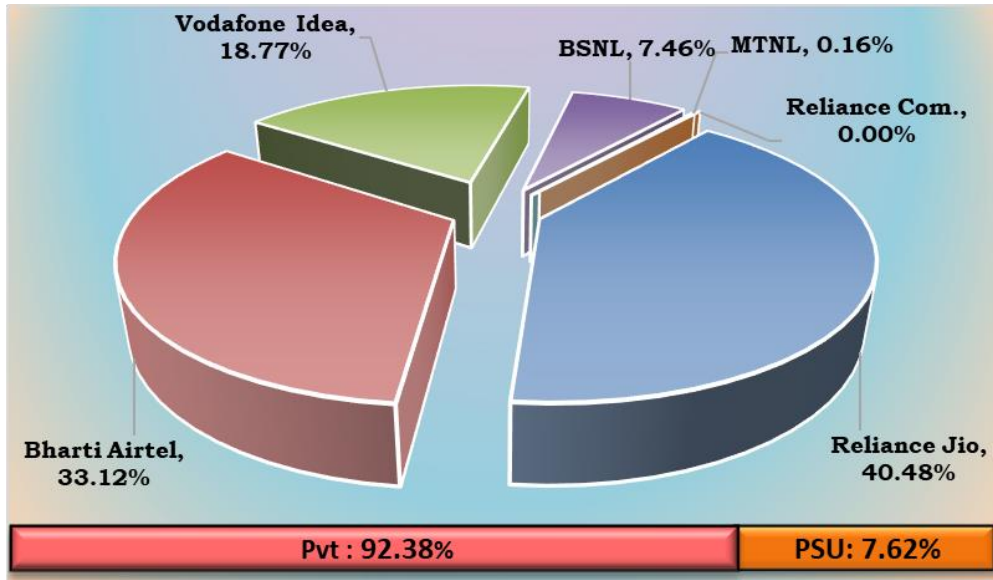
- Total wireless subscribers increased from 1,165.49 million at the end of March-24, to 1,166.96 million at the end of April-24, thereby registering a monthly growth rate of 0.13%. Wireless subscription in urban areas decreased from 634.47 million at the end of Mar-24 to 633.53 million at the end of Apr-24 however wireless subscription in rural areas increased from 531.02 million to 533.42 million during the same period. Monthly growth rate of urban and rural wireless subscription was -0.15% and 0.45% respectively.



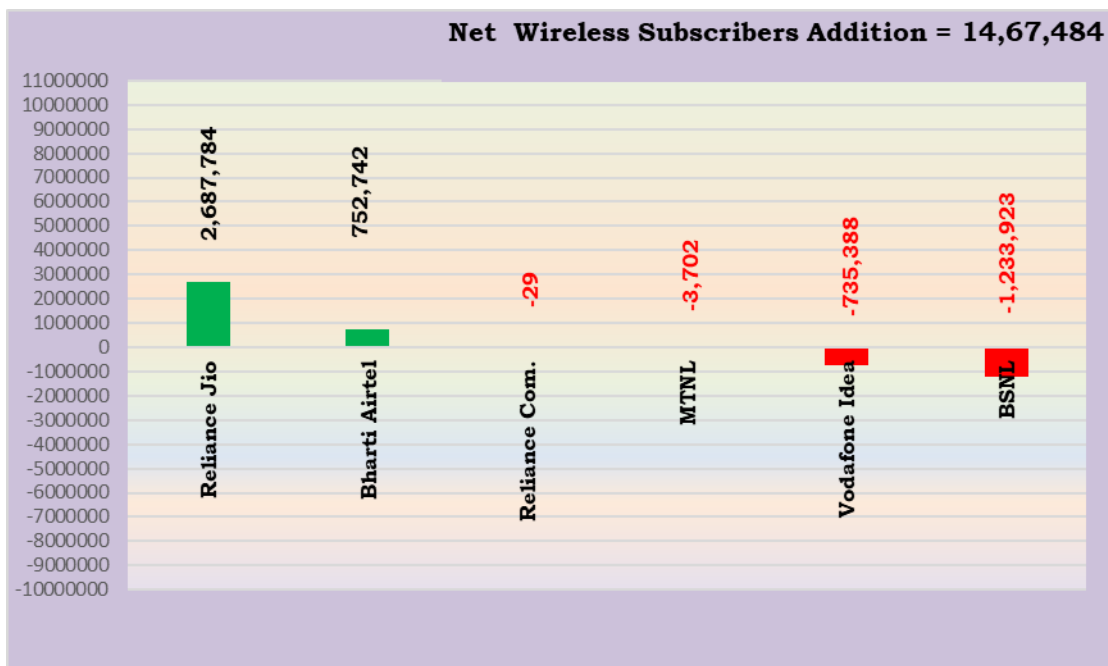
- The Wireless Tele-density in India increased from 83.27% at the end of March-24 to 83.31% at the end of April-24. The Urban Wireless Tele-density decreased from 127.51% at the end of March-24 to 127.12% at the end of April-24 however Rural Tele-density increased from 58.87% to 59.12% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.29% and 45.71% respectively at the end of April-24. Detailed statistics of wireless subscriber base is available at **Annexure-II**.

- As on 30th April, 2024, the private access service providers held 92.38% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 7.62%.
- 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 April, 2024

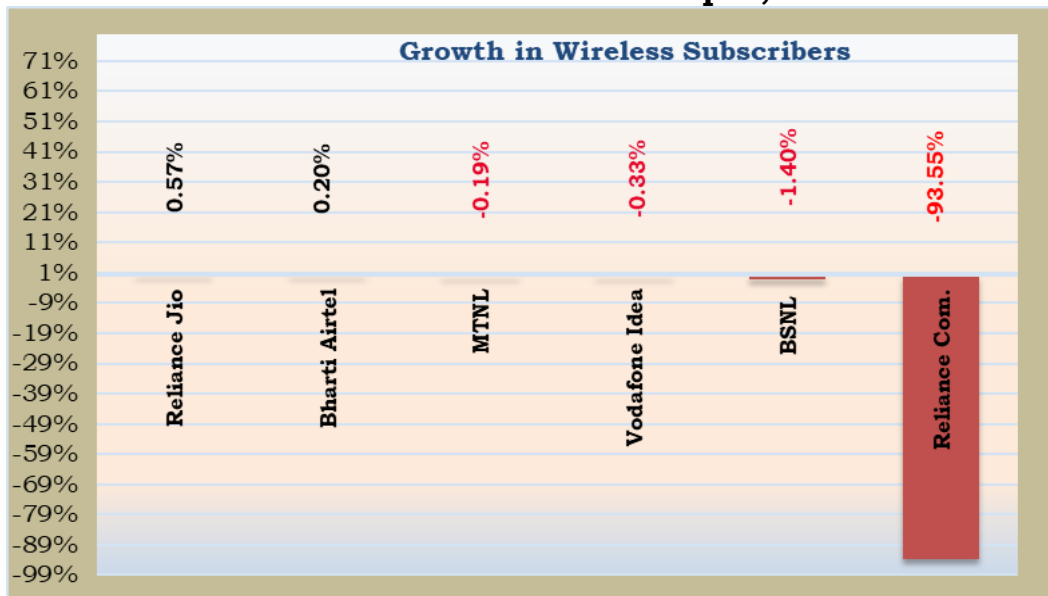


Net Addition in Wireless Subscribers of Access Service Providers in the month of April, 2024



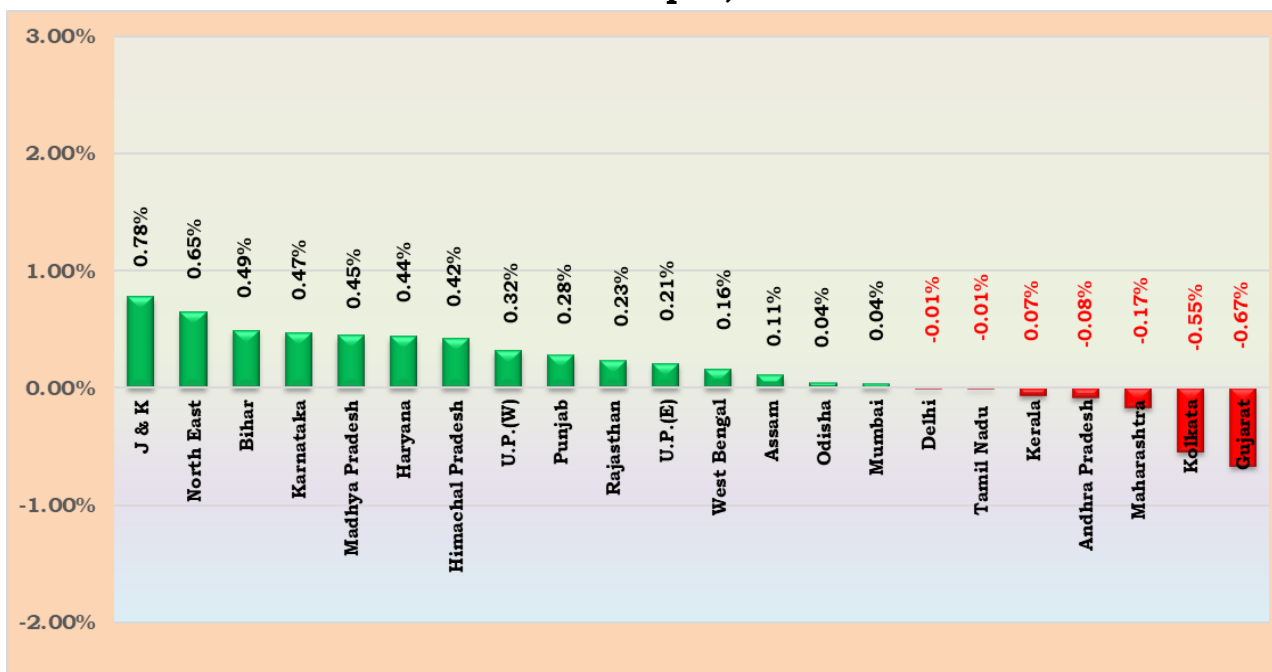
Growth in Wireless Subscribers

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



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

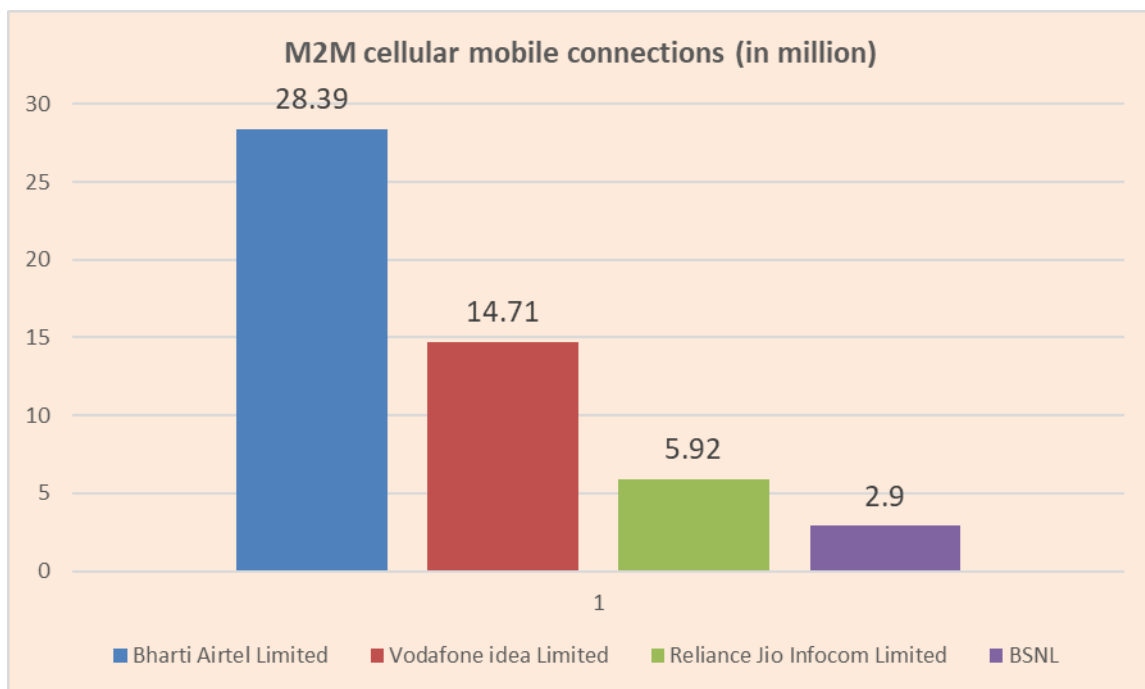
Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of April, 2024



- Except Delhi, Tamil Nadu, Kerala, Andhra Pradesh, Maharashtra, Kolkata and Gujarat, all other service areas have showed growth in their wireless subscribers during the month of April-24.

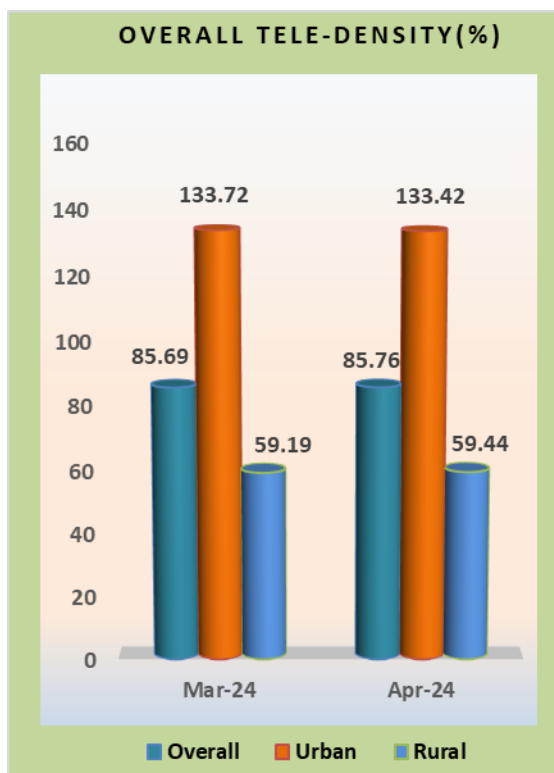
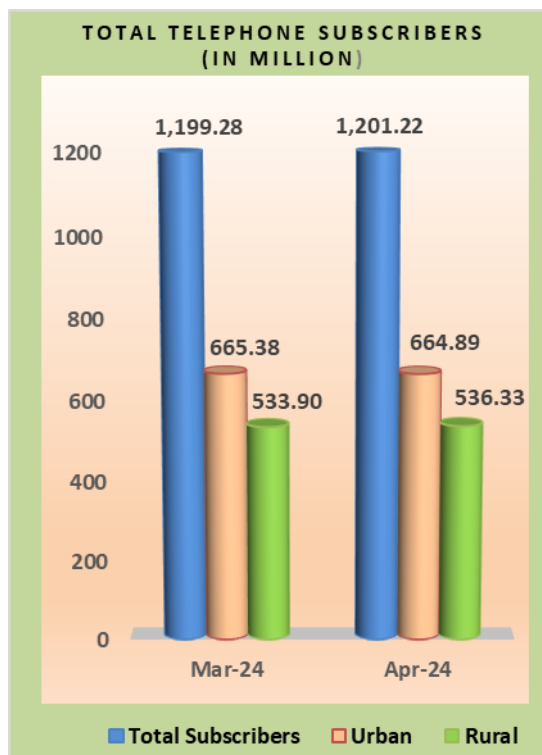
M2M cellular mobile connections

As on 30.04.2024, there were 51.92 million M2M cellular mobile connections. Bharti Airtel Limited has the highest number of M2M cellular mobile connections 28.39 million with a market share of 55.69% followed by Vodafone idea Limited, Reliance Jio Infocom Limited and BSNL with market share of 28.32%, 11.41% and 5.58% respectively.



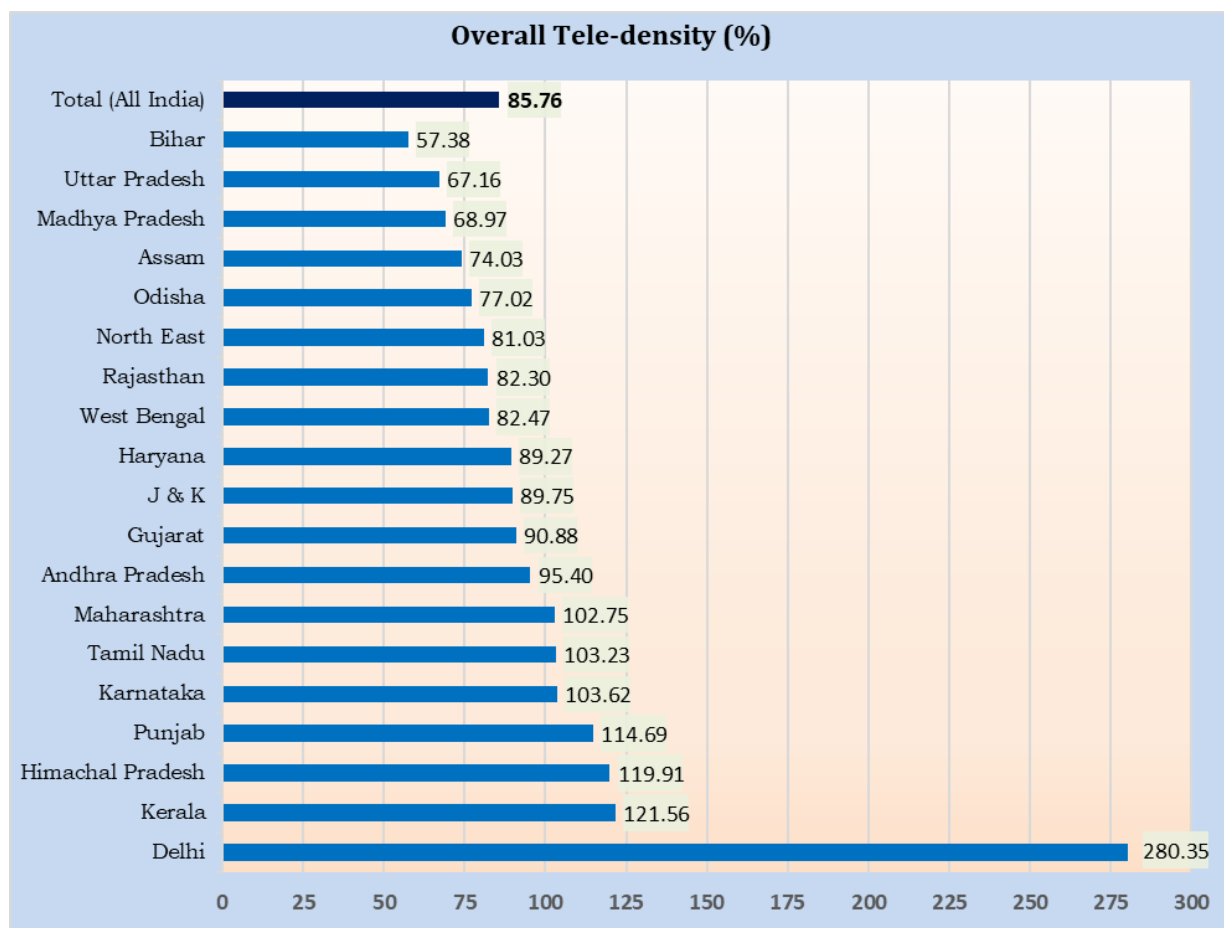
IV. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,199.28 million at the end of March-24 to 1,201.22 million at the end of April-24, thereby showing a monthly growth rate of 0.16%. Urban telephone subscription decreased from 665.38 million at the end of March-24 to 664.89 million at the end of April-24 however the rural subscription increased from 533.90 million to 536.33 million during the same period. The monthly growth rates of urban and rural telephone subscription were -0.07% and 0.45% respectively during the month of April-24.



- The overall Tele-density in India increased from 85.69% at the end of March-24 to 85.76% at the end of April-24. The Urban Tele-density decreased from 133.72% at the end of March-24 to 133.42% at the end of April-24 however Rural Tele-density increased from 59.19% to 59.44% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of April-24 were 55.35% and 44.65% respectively.

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



- 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 April-24. Delhi service area has maximum tele-density of 280.35% and the Bihar service area has minimum tele-density of 57.38% at the end of April-24.

Notes: -

- Population data/projections are available state wise only.
- 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%202011-2036%20-%20upload_compressed_0.pdf
- 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).
- Data/information for West Bengal includes Kolkata, Maharashtra includes Mumbai and Uttar Pradesh includes UPE & UPW service area(s).
- 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 April, 2024

Circle Category	Net additions in the month of April, 2024		Telephone Subscriber base as on 30 th April, 2024	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	180057	-356712	13340832	388026877
Circle B	181031	1216742	9199949	474621167
Circle C	50827	726965	2684610	189705261
Metro	58907	-119511	9036445	114604515
All India	470822	1467484	34261836	1166957820

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

Circle Category	Monthly growth rate (%) (March-24 to April-24)		Yearly growth rate (%) (April-23 to April-24)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.37%	-0.09%	17.47%	0.98%
Circle B	2.01%	0.26%	24.70%	2.44%
Circle C	1.93%	0.38%	24.29%	3.52%
Metro	0.66%	-0.10%	6.41%	2.07%
All India	1.39%	0.13%	16.59%	2.08%

Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

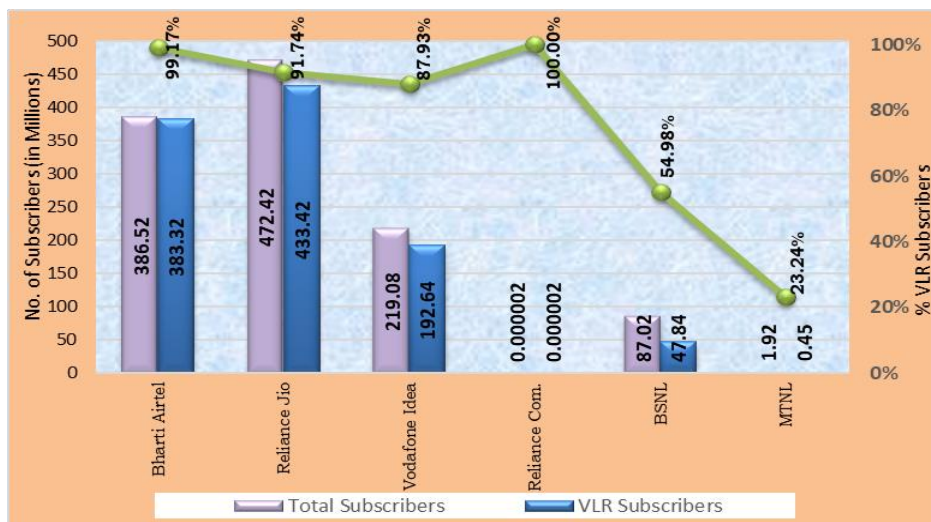
- As can be seen in the above tables, in wireless segment, during the month of April, 2024, on monthly basis except Circle 'A', and Circle 'Metro' all other circles have registered growth rate in their subscriber base. On yearly basis all circles have registered growth rate in their subscriber.

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

VI. Active Wireless Subscribers (VLR Data)

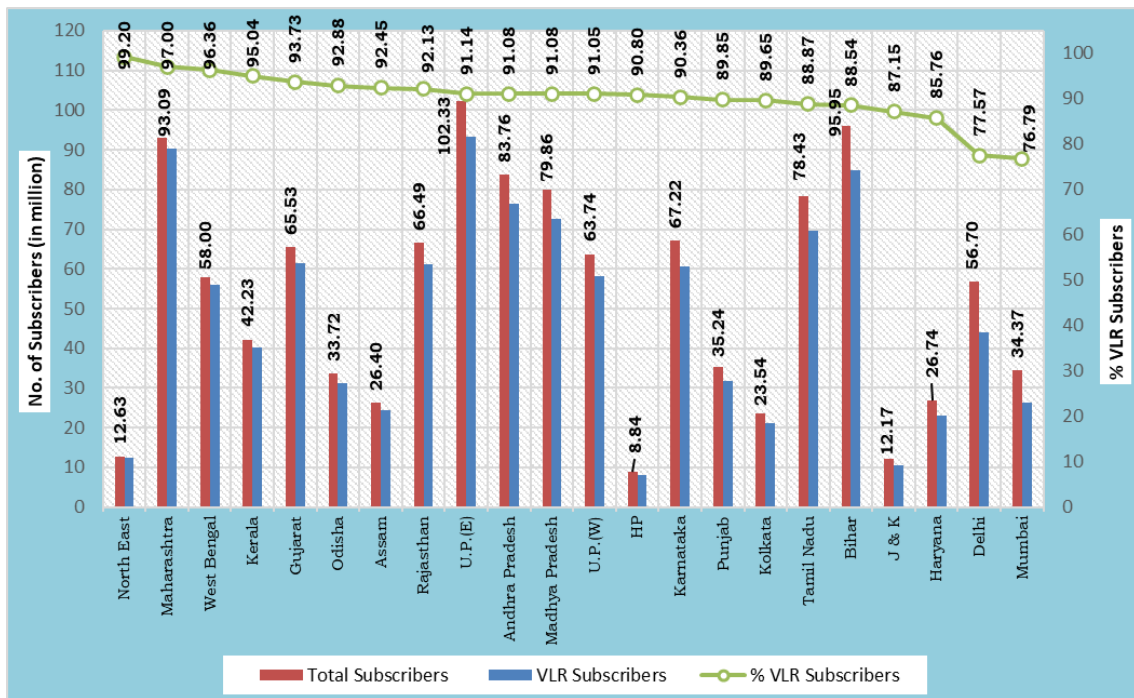
- Out of the total 1,166.96 million wireless subscribers, 1057.66 million wireless subscribers were active on the date of peak VLR in the month of April-24. The proportion of active wireless subscribers was approximately 90.63% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of April-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 April, 2024



- Reliance Communications has the maximum proportion 100% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of April-24 and MTNL has the minimum proportion of VLR 23.24% of its HLR during the same period.

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



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 April-24, a total of 11.07 million requests were received for MNP. Out of total 11.07 million, new requests received from Zone-I & Zone-II were 6.33 million and 4.74 million respectively. The cumulative MNP requests increased from 962.53 million at the end of March-24 to 973.60 million at the end of April-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 91.77 million) followed by Maharashtra (about 79.88 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 75.28 million) followed by Karnataka (about 67.26 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)	
	Mar-24	Apr-24		Mar-24	Apr-24
Delhi	46.26	46.81	Andhra Pradesh	65.07	65.57
Gujarat	65.68	66.44	Assam	6.90	6.99
Haryana	30.54	30.88	Bihar	53.16	53.95
Himachal Pradesh	4.13	4.17	Karnataka	66.77	67.26
Jammu & Kashmir	2.46	2.51	Kerala	23.46	23.64
Maharashtra	79.01	79.88	Kolkata	17.90	18.06
Mumbai	33.12	33.36	Madhya Pradesh	74.38	75.28
Punjab	32.37	32.68	North East	2.20	2.23
Rajasthan	66.14	66.73	Odisha	17.04	17.23
U.P.(East)	90.22	91.77	Tamil Nadu	62.00	62.54
U.P.(West)	68.77	69.79	West Bengal	54.94	55.83
Total	518.69	525.01	Total	443.84	448.58
Total (Zone-I + Zone-II)				962.53	973.60
Net Addition (Apr, 2024)		11.07 million			

Contact details in case of any clarification: -

Shri Amit Sharma, Advisor (F&EA),
Telecom Regulatory Authority of India
Mahanagar Doorsanchar Bhawan
Jawahar Lal Nehru Marg,
New Delhi – 110002.
Ph: 011-23234367
E-mail: advfea2@traf.gov.in

(Mahendra Srivastava)
Secretary i/c, TRAI

Wireline Subscriber Base

Annexure-I

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
	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	
Andhra Pradesh	554055	549191			664174	679611	18437	18399	236846	252483			85975	85765	1426233	1477482			643593	640555	3629313	3703486	74173
Assam	103,023	92,132			32572	33640	0	0	0	0			2550	2520	196999	203476					335144	331768	-3376
Bihar	167,068	164,102			214672	217468	9	9	10992	10861			5380	5410	577628	601490					975749	999340	23591
Delhi	0	0	991228	989708	2124481	2138138	17278	17147	212275	214106			84321	82721	1005377	1028449					4434960	4470269	35309
Gujarat	303442	301304			274284	277686	2701	3041	175647	180612			91892	99932	739800	753606					1587766	1616181	28415
Haryana	212893	214588			187655	190527	0	0	41069	40926			420	420	152946	160691					594983	607152	12169
Himachal Pradesh	91852	91745			8733	9018	0	0	1558	1465			90	90	64424	67300					166657	169618	2961
J & K	71537	70475			113356	115856	0	0	0	0			30	30	218289	223743					403212	410104	6892
Karnataka	531316	527085			1225787	1230339	16687	16546	445288	458022			150150	152220	1052393	1043423					3421621	3427635	6014
Kerala	1086029	1083071			105813	106867	3045	3128	18419	18175			6720	6570	319207	328346					1539233	1546157	6924
Kolkata	183965	180857			205318	211866	4876	4899	63804	65327			15700	15570	536507	544008					1010170	1022527	12357
Madhya Pradesh	242658	241560			577661	577785	5	5	53274	52737			66730	66630	810914	843684					1751242	1782401	31159
Maharashtra	557705	555477			488062	506512	7755	7875	211847	213400			20471	20508	335725	354548					1621565	1658320	36755
Mumbai	3322	3561	1186319	1172983	608128	609770	36107	36788	609572	611597			178719	179014	910241	929936					3532408	3543649	11241
North East	72410	72074			0	0	0	0	0	0			510	510	189843	194674					262763	267258	4495
Odisha	145946	144840			48827	55922	4	4	12130	12314			3540	3540	279811	289902					490258	506522	16264
Punjab	506937	507336			285877	289104	1850	1849	16168	16282	411487	414437	1590	1590	394309	416400	53308	53338			1671526	1700336	28810
Rajasthan	259225	255876			271582	276297	3400	3376	23933	24172			12325	12205	442644	462942					1013109	1034868	21759
Tamil Nadu	911116	908953			914819	923076	15042	14904	133034	131873			33143	33193	893356	923211					2900510	2935210	34700
U.P.(E)	125356	125499			218151	220572	34	34	10457	10480			17310	17310	575412	596993					946720	970888	24168
U.P.(W)	181151	180642			151829	168702	8	8	7034	7108			4141	4111	643703	666173					987866	1026744	38878
West Bengal	188466	192614			55930	57760	47	47	2657	2644			150	150	266989	278188					514239	531403	17164
Total	6499472	6462982	2177547	2162691	8777711	8896516	127285	128059	2286004	2324584	411487	414437	781857	790009	12032750	12388665	53308	53338	643593	640555	33791014	34261836	470822
Net Addition		-36490		-14856		118805		774		38580		2950		8152		355915		30		-3038		470822	
Rural Subscribers	2103569	2111220	32	32	2478	2489	355	358	7553	7476	16553	22203	0	0	269068	284604	0	476259	474011	2875867	2902393	26526	

Wireless Subscriber Base

Annexure-II

Circle	Bharti Airtel (including Tata Tele.)		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	Mar-24	Apr-24	
	Andhra Pradesh	33747893	33802990	0	0	10775447	10751901	6555686	6298530					32746418	32902714	83825444	
Assam	11,816,732	11,842,815	0	0	1562512	1556432	3076922	2997110					9910354	9999391	26366520	26395748	29228
Bihar	41,601,529	41,479,959	0	0	7689305	7723950	5232153	5243821					40953756	41499744	95476743	95947474	470731
Delhi	18185677	18236749	0	0	16542428	16469388					1685818	1685302	20284618	20303751	56698541	56695190	-3351
Gujarat	11867361	11899129	0	0	20718941	20594935	3228496	2663437					30151939	30368938	65966737	65526439	-440298
Haryana	7025769	7055277	0	0	6760161	6747231	4105614	4151046					8730215	8785964	26621759	26739518	117759
Himachal Pradesh	3580729	3580137	0	0	399925	399085	1471707	1499470					3347915	3358689	8800276	8837381	37105
J & K	5959033	6034748	0	0	297927	297655	781259	775479					5039894	5064589	12078113	12172471	94358
Karnataka	32180209	32235233	11	2	6409744	6445140	4163875	4167414					24153860	24376370	66907699	67224159	316460
Kerala	8578649	8652608	13	0	13645704	13605281	9049332	8950516					10983541	11021013	42257239	42229418	-27821
Kolkata	5693000	5667019	0	0	5279015	5281561	1783000	1671358					10912379	10918229	23667394	23538167	-129227
Madhya Pradesh	16164992	16188116	0	0	15548612	15505081	4706319	4714048					43079693	43450326	79499616	79857571	357955
Maharashtra	21758839	21831018	0	0	22274096	22100999	5729299	5633705					43484846	43523793	93247080	93089515	-157565
Mumbai	10038459	10074700	3	0	10962574	10877588					240007	236821	13117048	13182049	34358091	34371158	13067
North East	6283732	6329479	0	0	757938	752436	1,240,979	1,237,585					4267960	4312212	12550609	12631712	81103
Odisha	11634283	11643237	0	0	1447659	1429455	5,429,594	5,340,098					15194499	15307685	33706035	33720475	14440
Punjab	12627262	12643439	0	0	6469514	6457103	3,867,585	3,903,491					12172376	12231491	35136737	35235524	98787
Rajasthan	23338405	23370326	0	0	10656750	10648894	5,562,912	5,507,916					26774730	26961003	66332797	66488139	155342
Tamil Nadu	29405361	29488741	4	0	15618312	15518545	7,485,604	7,439,395	181,317	175,938			25746031	25808010	78436629	78430629	-6000
U.P.(E)	37315603	37338963	0	0	17407394	17309359	7,390,773	7,447,567					40004379	40237859	102118149	102333748	215599
U.P.(W)	18858334	18918229	0	0	15525461	15552927	4,874,908	4,883,224					24279514	24387588	63538217	63741968	203751
West Bengal	18102939	18204620	0	0	13068442	13057527	2,331,648	2,313,911					24396882	24419223	57899911	57995281	95370
Total	385764790	386517532	31	2	219817861	219082473	88067665	86839121	181317	175938	1925825	1922123	469732847	472420631	1165490336	1166957820	1467484
Net Addition		752742		-29		-735388		-1228544		-5379		-3702		2687784	0	1467484	
Rural Subscribers	188,847,916	190,421,486	0	0	107295067	107355447	27,751,529	27,266,245	0	0	35234	35223	207094081	208344758	531023827	533423159	2399332

Proportion of VLR on the date of Peak VLR in the month of Apr-24 (%)							Annexure-III
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	98.19	63.87	91.11		-	88.99	91.08
Assam	101.64	33.81	95.61		-	98.64	92.45
Bihar	94.24	35.82	90.23		-	89.19	88.54
Delhi	86.56		59.37	15.86	-	89.39	77.57
Gujarat	100.93	68.92	93.52		-	93.22	93.73
Haryana	102.21	27.84	91.54		-	95.48	85.76
Himachal Pradesh	99.59	55.14	105.32		-	95.63	90.80
J & K	93.05	64.73	85.00		-	83.67	87.15
Karnataka	96.56	60.08	80.07		100.00	90.08	90.36
Kerala	102.63	93.87	95.24		-	89.78	95.04
Kolkata	95.18	52.34	93.13		-	90.82	89.65
Madhya Pradesh	104.30	44.42	85.35		-	93.25	91.08
Maharashtra	106.72	66.44	91.94		-	98.64	97.00
Mumbai	78.14		71.15	75.76	-	80.44	76.79
North East	104.58	52.65	94.56		-	105.47	99.20
Odisha	104.36	50.15	98.15		-	98.57	92.88
Punjab	101.96	44.51	92.94		-	90.16	89.85
Rajasthan	103.04	42.38	92.47		-	92.70	92.13
Tamil Nadu	98.46	75.52	90.82		-	80.69	88.87
U.P. (E)	100.25	34.83	91.28		-	93.04	91.14
U.P. (W)	104.44	35.57	93.39		-	90.28	91.05
West Bengal	106.50	65.16	90.24		-	95.03	96.36
Total	99.17	54.98	87.93	23.24	100.00	91.74	90.63

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.