

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 20th September, 2024

(www.traai.gov.in)

**Highlights of Telecom Subscription Data as on 31st July, 2024**

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Broadband Subscribers (Million)	904.21	41.98	946.19
Urban Telephone Subscribers (Million)	635.46	32.50	667.96
Net Addition in July, 2024 (Million)	0.46	0.37	0.83
Monthly Growth Rate	0.07%	1.16%	0.12%
Rural Telephone Subscribers (Million)	534.15	3.06	537.21
Net Addition in July, 2024 (Million)	-1.38	0.08	-1.30
Monthly Growth Rate	-0.26%	2.71%	-0.24%
Total Telephone Subscribers (Million)	1169.61	35.56	1205.17
Net Addition in July, 2024 (Million)	-0.92	0.45	-0.47
Monthly Growth Rate	-0.08%	1.29%	-0.04%
Overall Tele-density*(%)	83.32%	2.53%	85.85%
Urban Tele-density*(%)	126.93%	6.49%	133.42%
Rural Tele-density*(%)	59.14%	0.34%	59.48%
Share of Urban Subscribers	54.33%	91.39%	55.42%
Share of Rural Subscribers	45.67%	8.61%	44.58%

- ❖ In the month of July, 2024, 13.68 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 997.44 million at the end of June-24 to 1011.13 million at the end of July-24, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in July, 2024 was 1059.56 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 1248 operators in July, 2024, in comparison to 1216 Operators in June 2024, the total Broadband Subscribers increased from 940.75 million at the end of June-24 to 946.19 million at the end of July-24 with a monthly growth rate of 0.58%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

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

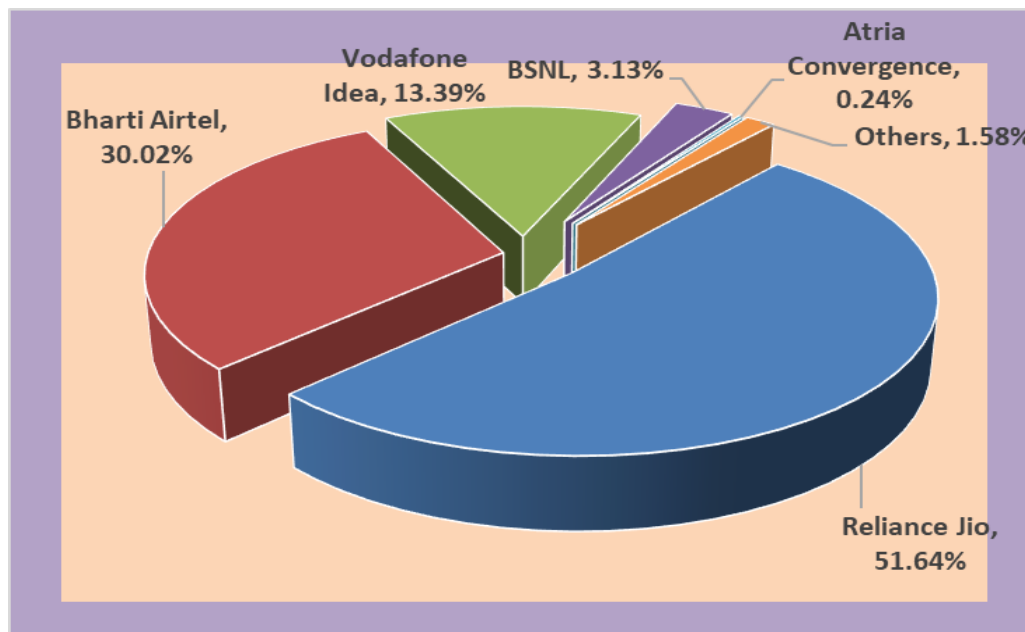
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of July, 2024
	As on 30 th June 2024	As on 31 st July 2024	
Wired subscribers	41.83	41.98	0.35%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.70	0.83	18.46%
Mobile devices users (Phones and dongles)	898.22	903.38	0.57%
Total	940.75	946.19	0.58%

As on 31st July, 2024, top five Broadband (Wired+Wireless) Service providers

S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	488.63
2.	Bharti Airtel Ltd.	284.03
3.	Vodafone Idea Ltd.	126.72
4.	Bharat Sanchar Nigam Ltd.	29.61
5.	Atria Convergence Technologies Limited	2.26
Market Share of Top Five Vs Total Broadband (Wired+Wireless)		98.42%

- 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 31st July, 2024**



As on 31st July, 2024, top five Wired Broadband Service providers

S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	12.86
2.	Bharti Airtel Ltd.	8.16
3.	Bharat Sanchar Nigam Ltd.	4.19
4.	Atria Convergence Technologies Limited	2.26
5.	Kerala Vision Broadband Ltd.	1.18
Market Share of Top Five Vs Total Wired Broadband		68.25%

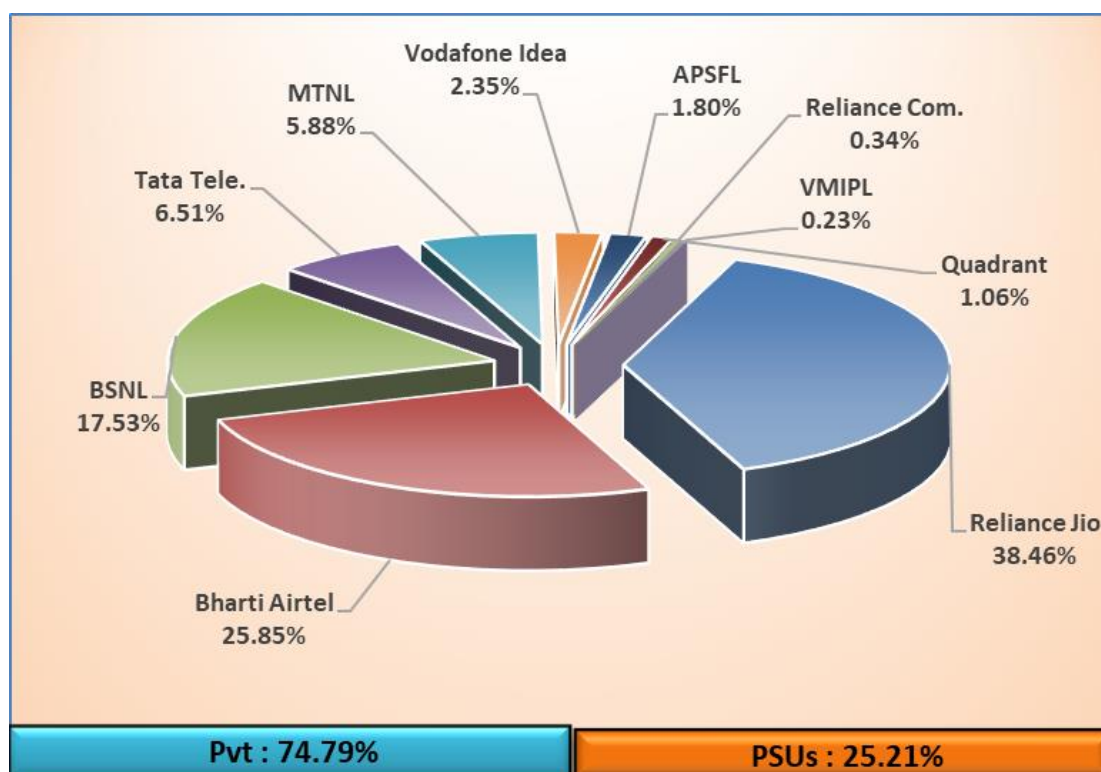
As on 31st July, 2024, top five Wireless Broadband Service providers

S.No.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd.	475.77
2.	Bharti Airtel Ltd.	275.88
3.	Vodafone Idea Ltd.	126.72
4.	Bharat Sanchar Nigam Ltd.	25.42
5.	Intech Online Pvt. Ltd.	0.25
Market Share of Top Five Vs Total Wireless Broadband		99.98%

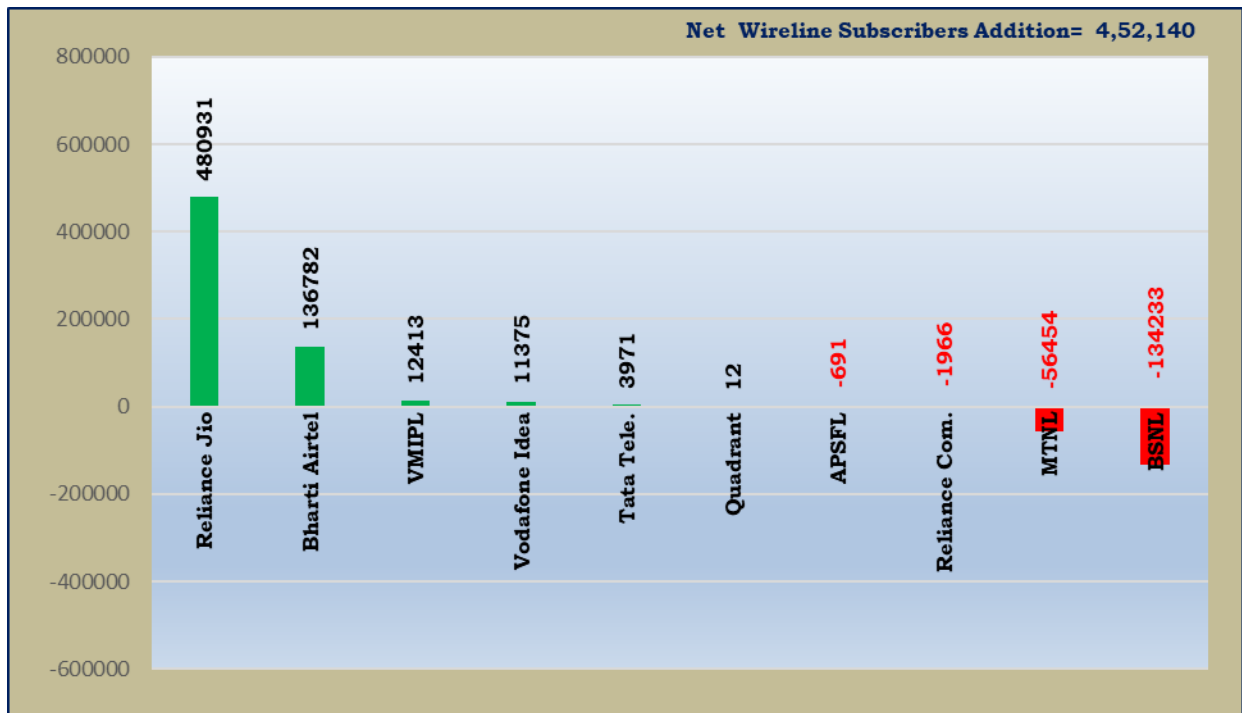
II. Wireline Subscribers

- Wireline subscribers increased from 35.11 million at the end of Jun-24 to 35.56 million at the end of July-24. Net increase in the wireline subscriber base was 0.45 million with a monthly rate of growth 1.29%. The share of urban and rural subscribers in total wireline subscribers were 91.39% and 8.61% respectively at the end of July, 2024.
- The Overall Wireline Tele-density in India increased from 2.50% at the end of Jun-24 to 2.53% at the end of July-24. Urban and Rural Wireline Tele-density were 6.49% and 0.34% respectively during the same period.
- BSNL, MTNL and APSFL, the three PSUs access service providers, held 25.21% of the wireline market share as on 31st July, 2024. Detailed statistics of wireline subscriber base are available at **Annexure-I**.

Access Service Provider-wise Market Share of Wireline Subscribers as on 31st July, 2024



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



III. Wireless subscriber

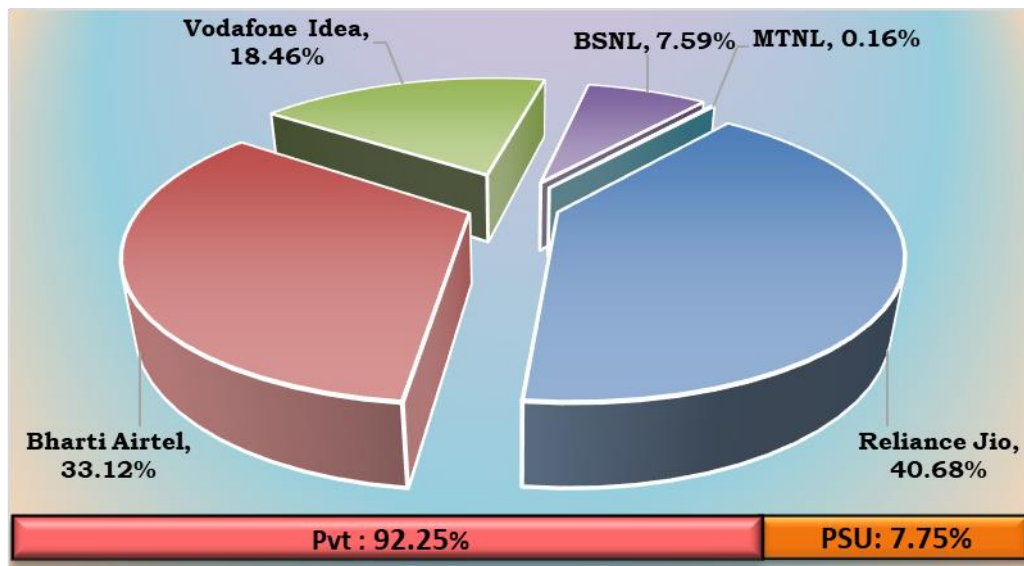
- Total wireless subscribers decreased from 1,170.53 million at the end of June-24, to 1,169.61 million at the end of July-24, thereby registering a monthly decline rate of 0.08%. Wireless subscription in urban areas increased from 635 million at the end of June-24 to 635.46 million at the end of July-24, however, wireless subscription in rural areas decreased from 535.53 million to 534.15 million during the same period. Monthly growth rate of urban and rural wireless subscription was 0.07% and -0.26% respectively.



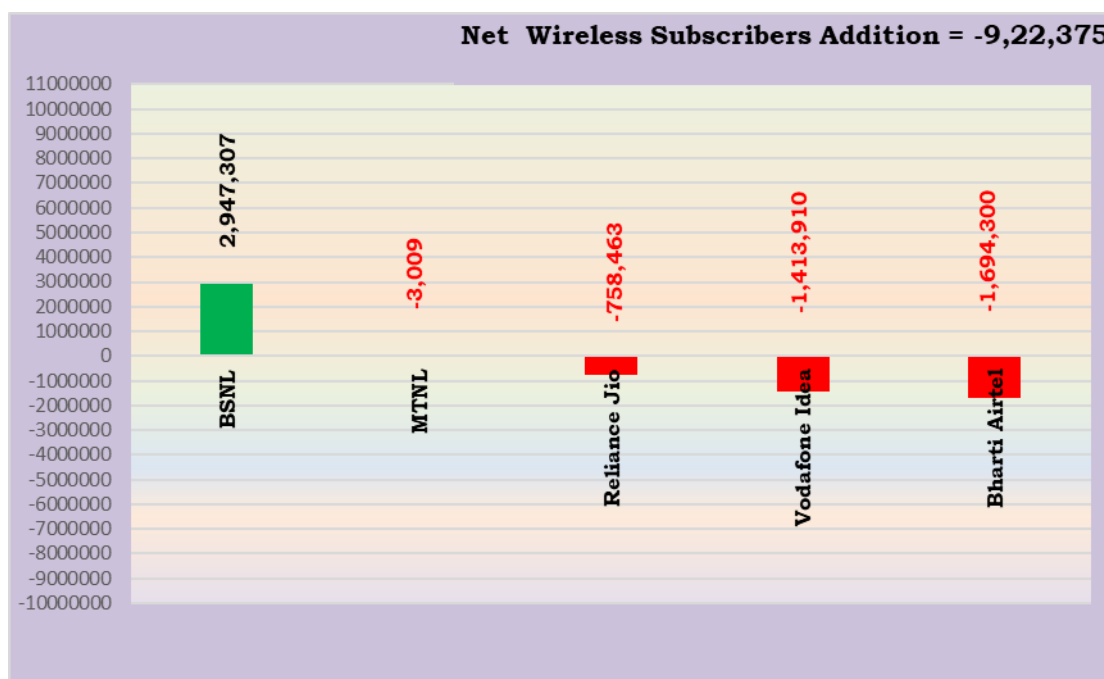
- The Wireless Tele-density in India decreased from 83.45% at the end of Jun-24 to 83.32% at the end of Jul-24. The Urban Wireless Tele-density decreased from 127.03% at the end of Jun-24 to 126.93% at the end of Jul-24 and Rural Tele-density also decreased from 59.32% to 59.14% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.33% and 45.67% respectively at the end of Jul-24. Detailed statistics of wireless subscriber base is available at **Annexure-II**.

- As on 31st July, 2024, the private access service providers held 92.25% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 7.75%.
- 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 31st July, 2024

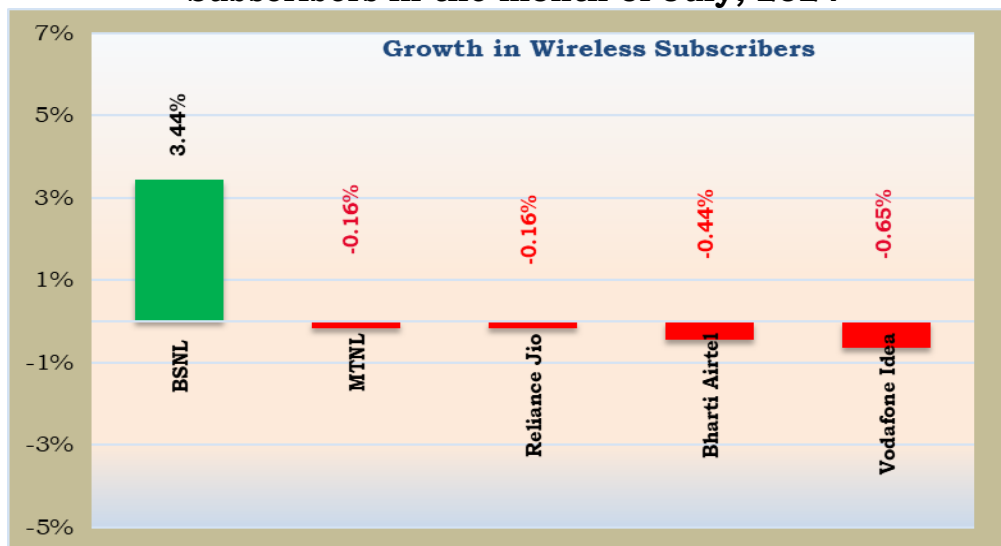


Net Addition in Wireless Subscribers of Access Service Providers in the month of July, 2024



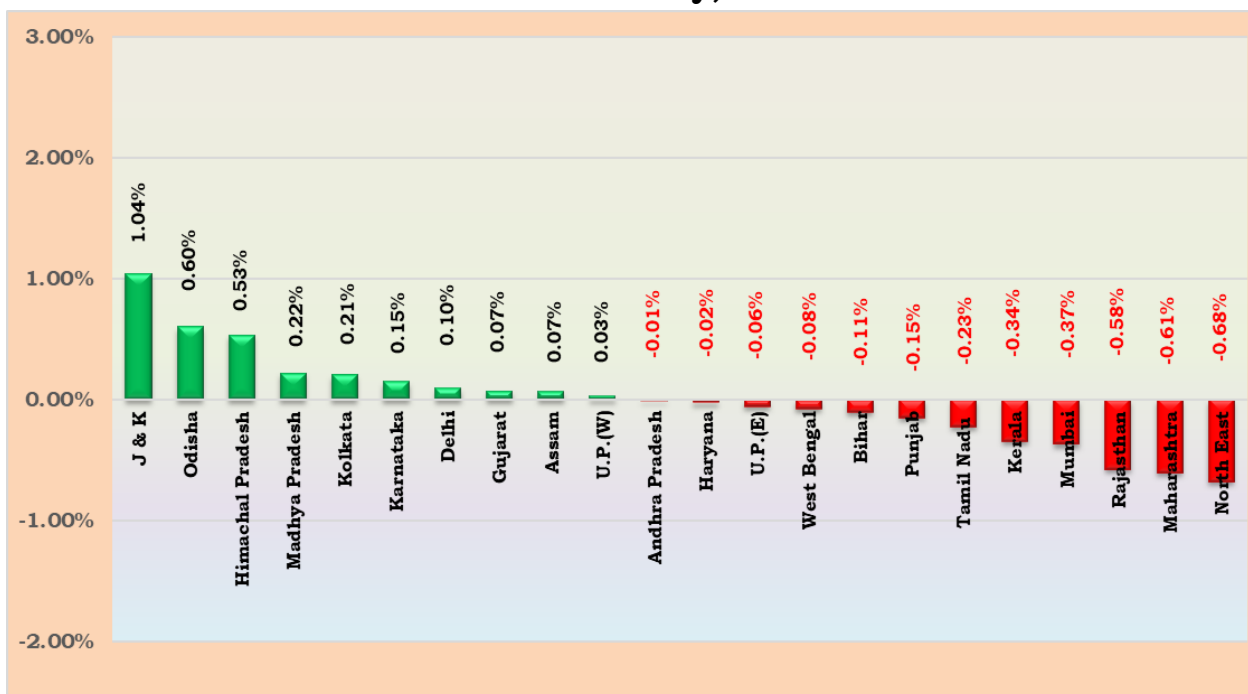
Growth in Wireless Subscribers

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



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

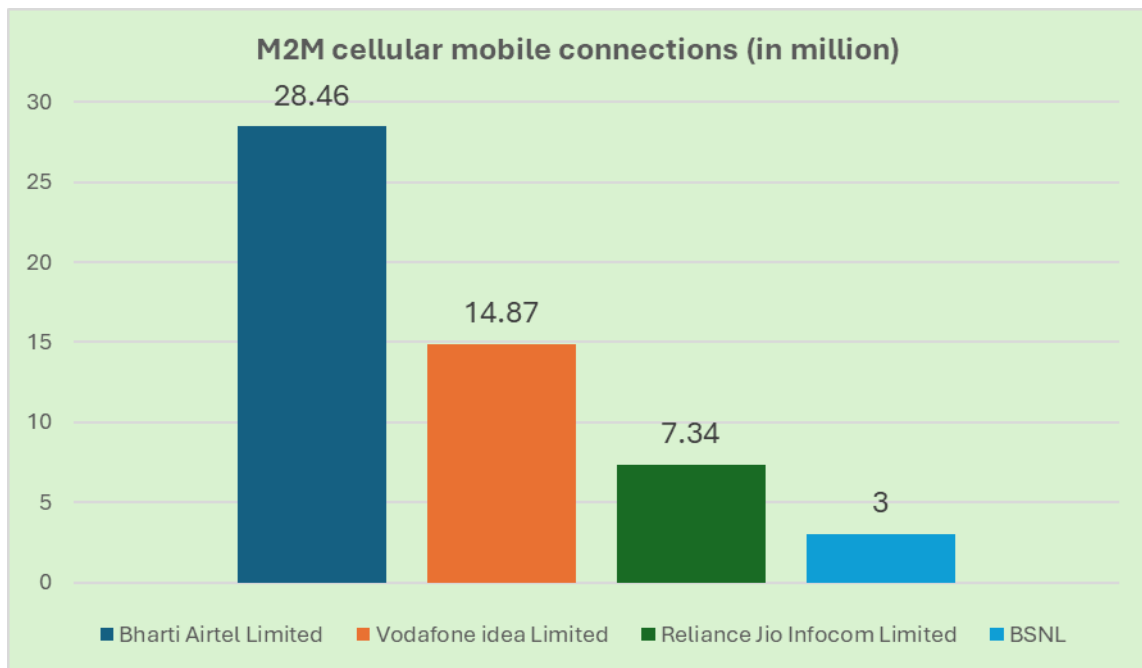
Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of July, 2024



- Except J&K, Odisha, Himachal Pradesh, Madhya Pradesh, Kolkata, Karnataka, Delhi, Gujarat, Assam and U.P.(W) all other service areas have showed decline in their wireless subscribers during the month of July-24.

M2M cellular mobile connections

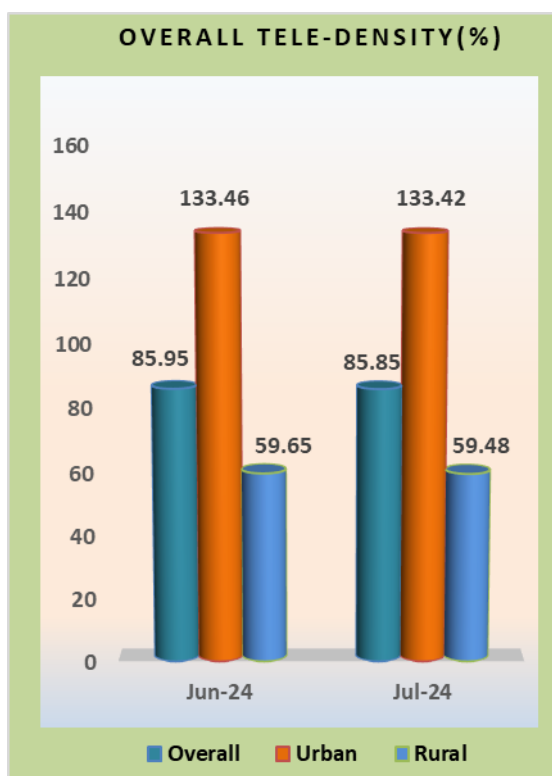
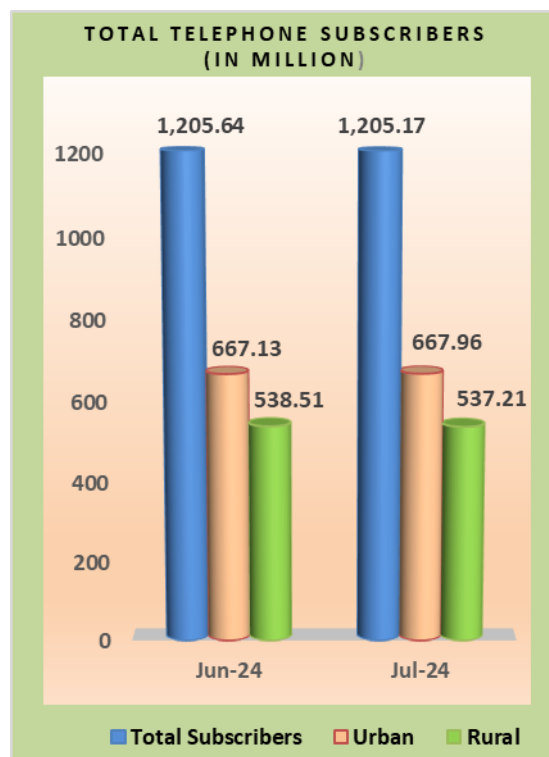
Number of M2M cellular mobile connections increased from 52.52 million at the end of June-24, to 53.67 million at the end of July, 24.



Bharti Airtel Limited has the highest number of M2M cellular mobile connections 28.46 million with a market share of 53.02% followed by Vodafone idea Limited, Reliance Jio Infocom Limited and BSNL with market share of 27.71%, 13.68% and 5.58% respectively.

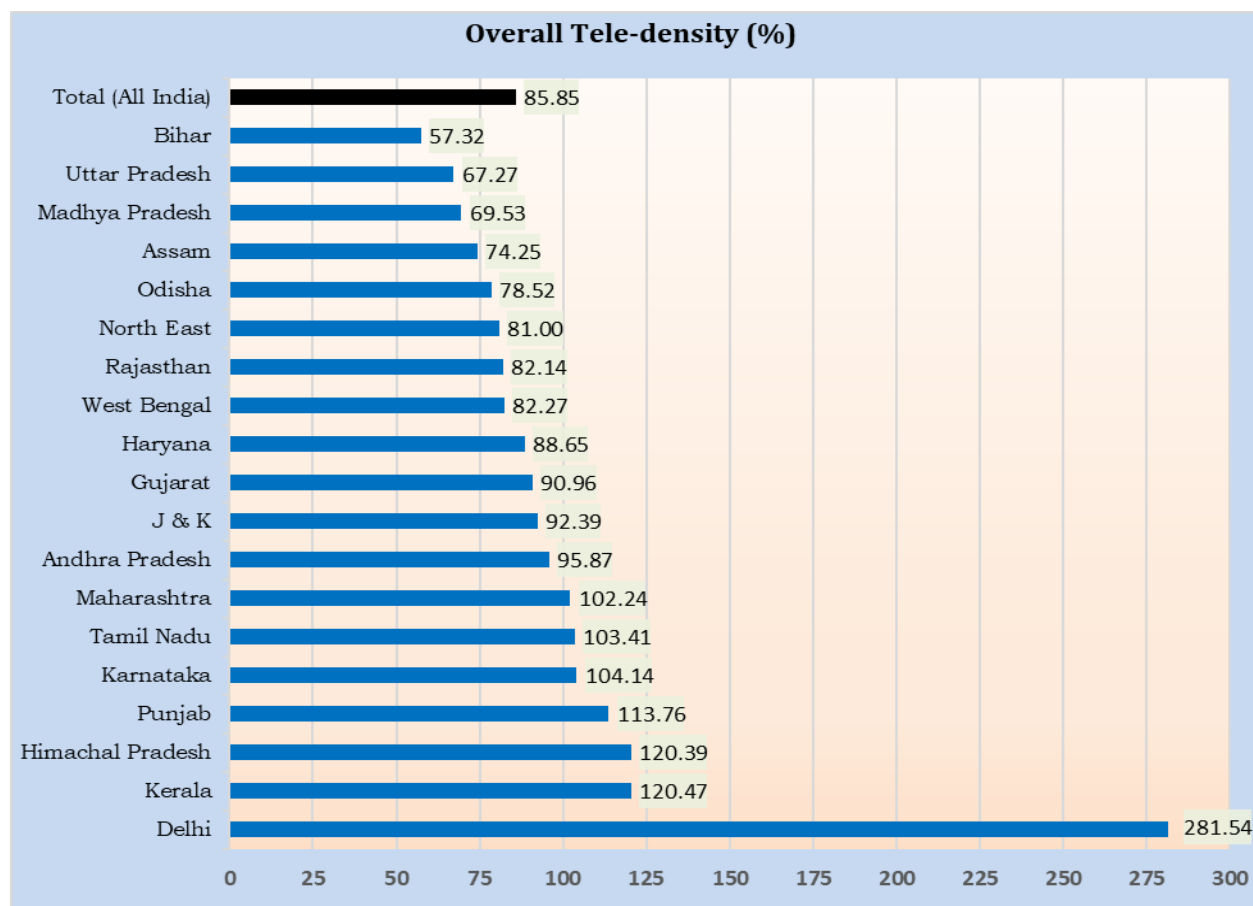
IV. Total Telephone Subscribers

- The number of total telephone subscribers in India decreased from 1,205.64 million at the end of Jun-24 to 1,205.17 million at the end of Jul-24, thereby showing a monthly decline rate of 0.04%. Urban telephone subscription increased from 667.13 million at the end of Jun-24 to 667.96 million at the end of Jul-24 however the rural subscription decreased from 538.51 million to 537.21 million during the same period. The monthly growth rates of urban and rural telephone subscription were 0.12% and -0.24% respectively during the month of July-24.



- The overall Tele-density in India decreased from 85.95% at the end of Jun-24 to 85.85% at the end of Jul-24. The Urban Tele-density decreased from 133.46% at the end of Jun-24 to 133.42% at the end of Jul-24 and Rural Tele-density also decreased from 59.65% to 59.48% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of July-24 were 55.42% and 44.58% respectively.

Overall Tele-density (LSA Wise) – As on 31st July, 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 July-24. Delhi service area has maximum tele-density of 281.54% and the Bihar service area has minimum tele-density of 57.32% at the end of July-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 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.

V. Category-wise Growth in subscriber base

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

Circle Category	Net additions in the month of July, 2024		Telephone Subscriber base as on 31 st July, 2024	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	136584	-607881	13806536	388783670
Circle B	218518	-501862	9677785	475226538
Circle C	66659	211256	2889334	191018564
Metro	30379	-23888	9186440	114577160
All India	452140	-922375	35560095	1169605932

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

Circle Category	Monthly growth rate (%) (June-24 to July-24)		Yearly growth rate (%) (July-23 to July-24)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.00%	-0.16%	14.79%	1.24%
Circle B	2.31%	-0.11%	25.79%	2.25%
Circle C	2.36%	0.11%	29.10%	3.15%
Metro	0.33%	-0.02%	6.25%	2.05%
All India	1.29%	-0.08%	16.19%	2.04%

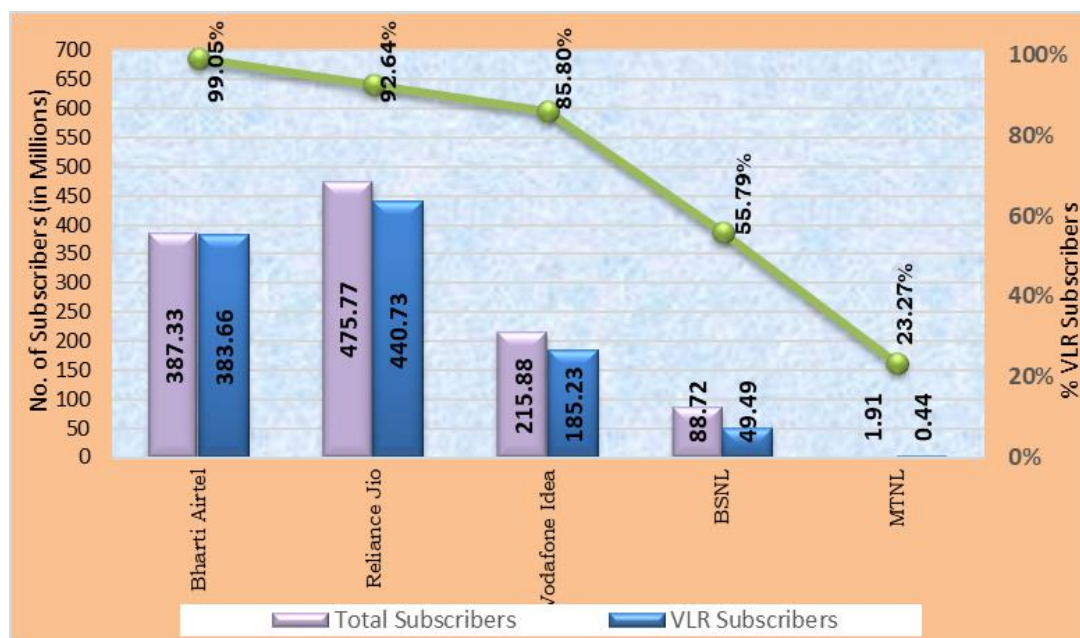
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

- As can be seen in the above tables, in wireless segment, during the month of July, 2024, on monthly basis except 'Circle C', all circles have registered decline rate in their subscriber base. On yearly basis all circles have registered growth rate in their subscriber base.
- In Wireline segment, during the month of July, 2024, both on monthly and yearly basis, all circles have registered growth rate in their subscriber base.

VI. Active Wireless Subscribers (VLR Data)

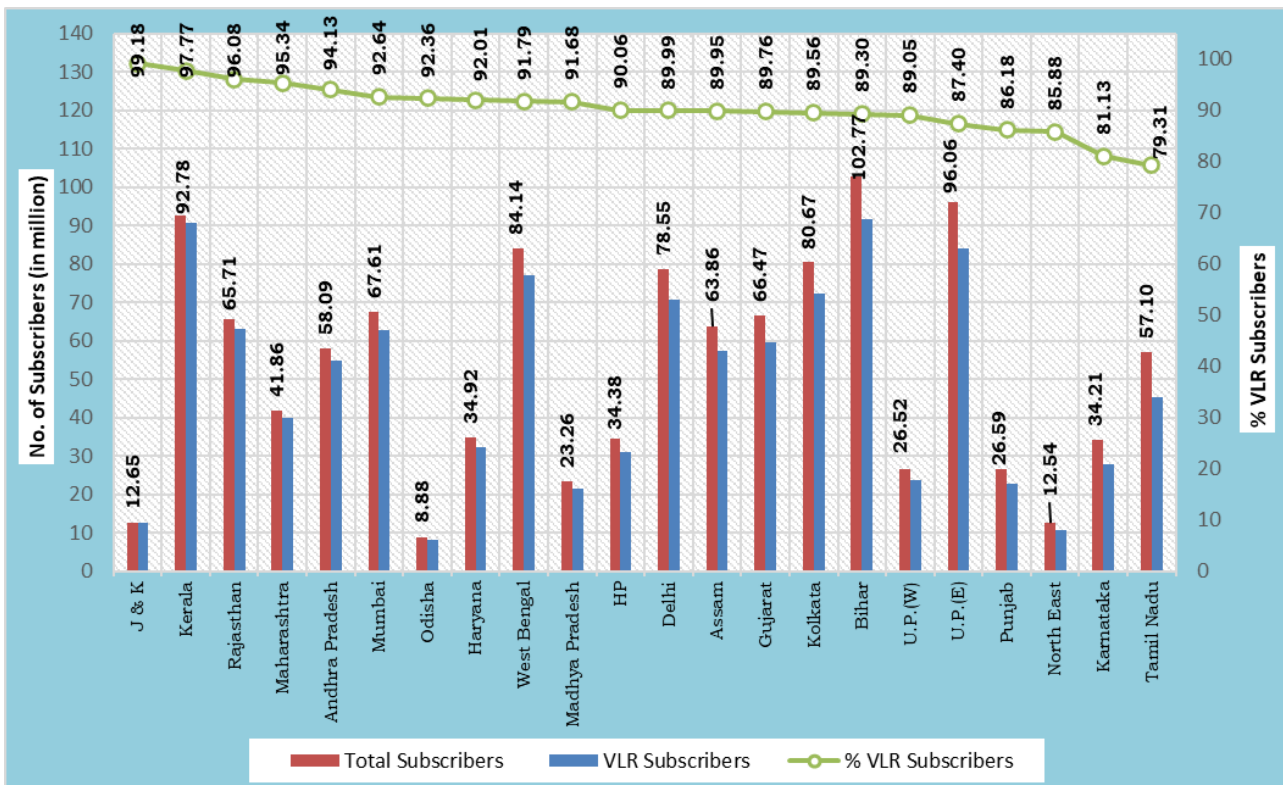
- Out of the total 1,169.61 million wireless subscribers, 1059.56 million wireless subscribers were active on the date of peak VLR in the month of July-24. The proportion of active wireless subscribers was approximately 90.59% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of July-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 July, 2024



- Bharti Airtel Limited has the maximum proportion 99.05% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of July-24 and MTNL has the minimum proportion of VLR 23.27% of its HLR during the same period.

Service Area wise percentage of VLR Subscribers in the month of July, 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 July-24, a total of 13.68 million requests were received for MNP. Out of total 13.68 million, new requests received from Zone-I & Zone-II were 7.60 million and 6.09 million respectively. The cumulative MNP requests increased from 997.44 million at the end of June-24 to 1011.13 million at the end of July-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 96.80 million) followed by Maharashtra (about 82.76 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 78.58 million) followed by Karnataka (about 69 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)	
	June-24	July-24		June-24	July-24
Delhi	47.92	48.50	Andhra Pradesh	66.65	67.39
Gujarat	67.96	68.81	Assam	7.22	7.35
Haryana	31.56	31.98	Bihar	55.75	56.75
Himachal Pradesh	4.25	4.31	Karnataka	68.36	69.00
Jammu & Kashmir	2.64	2.71	Kerala	24.07	24.32
Maharashtra	81.67	82.76	Kolkata	18.40	18.63
Mumbai	33.84	34.08	Madhya Pradesh	77.41	78.58
Punjab	33.26	33.63	North East	2.29	2.34
Rajasthan	68.15	68.94	Odisha	17.62	17.82
U.P.(East)	94.97	96.80	Tamil Nadu	63.68	64.36
U.P.(West)	72.12	73.42	West Bengal	57.66	58.65
Total	538.34	545.93	Total	459.11	465.19
Total (Zone-I + Zone-II)				997.44	1,011.13
Net Addition (July, 2024)			13.68 million		

Contact details in case of any clarification: -

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Secretary, 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
	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	
Andhra Pradesh	537332	518416			674809	681693	18289	17656	249336	247288			105785	105145	1577091	1624678			639123	638432	3801765	3833308	31543
Assam	91,181	82,829			36103	37481	0	0	0	0			2520	2520	218465	228191					348269	351021	2752
Bihar	161,698	152,727			245655	266754	9	9	10838	11871			5440	5490	647653	674428					1071293	1111279	39986
Delhi	0	0	984974	983492	2179646	2192361	16631	16286	219549	222166			83291	85436	1072567	1098095					4556658	4597836	41178
Gujarat	297829	291535			287464	288806	2764	2763	180054	180876			108556	113876	805665	827002					1682332	1704858	22526
Haryana	216521	217203			176167	198867	0	0	41300	40941			420	420	180871	191947					615279	649378	34099
Himachal Pradesh	92709	89728			10405	10706	0	0	1460	1480			90	90	73585	76764					178249	178768	519
J & K	68007	65862			120007	122007	0	0	0	0			30	30	236144	242951					424188	430850	6662
Karnataka	512644	511452			1254991	1257652	16033	16091	436551	437337			153310	156575	1098347	1134354					3471876	3513461	41585
Kerala	1075167	1065379			109484	112469	2962	2962	18094	18196			6510	6500	349902	361781					1562119	1567287	5168
Kolkata	182190	182308			207732	208490	4430	4366	64267	63847			15500	15500	568075	583777					1042194	1058288	16094
Madhya Pradesh	237419	232151			568274	578492	5	5	48187	48288			69130	70170	897176	938131					1820191	1867237	47046
Maharashtra	541901	511691			518198	523632	7650	7548	224176	224336			20146	20206	408507	441811					1720578	1729224	8646
Mumbai	3561	3561	1161040	1106068	617385	619794	35423	35210	608967	609226			179134	178849	951699	977608					3557209	3530316	-26893
North East	65163	62356			0	0	0	0	0	0			510	510	205437	211846					271110	274712	3602
Odisha	143573	142014			59873	62850	4	4	12386	12928			3770	3700	309960	321208					529566	542704	13138
Punjab	509732	509306			302202	304325	1847	1845	16389	15913	377810	377822	1590	1590	460747	483989	67994	80407			1738311	1775197	36886
Rajasthan	250863	246281			283566	289967	3331	3301	24009	24190			11885	12125	503211	525690					1076865	1101554	24689
Tamil Nadu	899803	893398			936696	947392	14561	13928	133487	133685			34215	34475	974639	1002807					2993401	3025685	32284
U.P.(E)	118866	106276			233680	236249	32	31	11600	12443			17350	17350	644627	675286					1026155	1047635	21480
U.P.(W)	171199	160826			170502	187555	8	8	7314	6995			4111	4111	711137	739475					1064271	1098970	34699
West Bengal	191981	189807			60938	63017	26	26	2685	2614			150	150	300296	314913					556076	570527	14451
Total	6369339	6235106	2146014	2089560	9053777	9190559	124005	122039	2310649	2314620	377810	377822	823443	834818	13195801	13676732	67994	80407	639123	638432	35107955	35560095	452140
Net Addition		-134233		-56454		136782		-1966		3971		12		11375		480931		12413		-691		452140	
Rural Subscribers	2126059	2190367	32	29	2537	2561	357	357	7008	6874	54947	54574	0	0	318166	335662		0	472951	472440	2982057	3062864	80807

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
	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	Jun-24	Jul-24	
Andhra Pradesh	34108778	33,989,599	0	0	10689294	10590428	6279421	6,578,913					33070341	32978117	84147834	84137057	-10777.00
Assam	11966802	11,970,108	0	0	1523045	1510887	2976580	3,033,387					10032509	10002075	26498936	26516457	17521
Bihar	41485026	41,089,037	0	0	7651158	7591934	5201342	5,561,593					41820105	41812880	96157631	96055444	-102187
Delhi	18306388	18,301,168	0	0	16594301	16743602					1684323	1684191	20464520	20375069	57049532	57104030	54498
Gujarat	11944421	11,916,953	0	0	20379486	20319894	2679193	2,899,535					30661946	30576502	65665046	65712884	47838
Haryana	7091863	7,092,103	0	0	6717606	6684372	4055837	4,081,920					8728108	8728381	26593414	26586776	-6638
Himachal Pradesh	3595981	3,592,169	0	0	392830	388302	1513110	1,568,692					3326252	3326011	8828173	8875174	47001
J & K	6179394	6,171,783	0	0	286760	280195	778473	839,986					5170633	5252747	12415260	12544711	129451
Karnataka	32470623	32,362,339	0	0	6468809	6398322	4120157	4,300,925					24446440	24544376	67506029	67605962	99933
Kerala	8806722	8,779,707	0	0	13463485	13371728	8586971	8,605,862					11148150	11103636	42005328	41860933	-144395
Kolkata	5660644	5,604,615	0	0	5243235	5214201	1368962	1,525,975					10942648	10918837	23215489	23263628	48139
Madhya Pradesh	16303993	16,241,312	0	0	15365624	15250808	4696704	4,875,012					44122953	44298910	80489274	80666042	176768
Maharashtra	22077455	22,144,837	0	0	21905959	21727203	5676824	5,586,235					43684161	43319323	93344399	92777598	-566801
Mumbai	10141827	10,121,680	0	0	10715322	10709628					230443	227566	13248435	13150628	34336027	34209502	-126525
North East	6363875	6,313,850	0	0	725562	710298	1228962	1,245,260					4417294	4379819	12735693	12649227	-86466
Odisha	11681370	11,637,636	0	0	1398255	1397177	5326387	5,392,482					15765603	15950256	34171615	34377551	205936
Punjab	12593886	12,515,326	0	0	6411404	6360326	3714894	3,908,114					12250641	12134660	34970825	34918426	-52399
Rajasthan	23591034	23,433,054	0	0	10485204	10311213	5523352	5,567,277					27257245	27158930	66856835	66470474	-386361
Tamil Nadu	29845231	29,836,739	0	0	15450255	15333918	7,323,605	7,506,870	188,010	203,346			25921142	25669296	78728243	78550169	-178074
U.P.(E)	37400385	37,038,900	0	0	17104862	16917330	7473038	7,942,489					40853555	40871703	102831840	102770422	-61418
U.P.(W)	19004620	18,918,504	0	0	15399180	15321425	4747091	4,934,399					24691463	24686267	63842354	63860595	18241
West Bengal	18400179	18,254,778	0	0	12925151	12749686	2310124	2,558,072					24503076	24530334	58138530	58092870	-45660
Total	389020497	387326197	0	0	217296787	215882877	85581027	88512998	188010	203346	1914766	1911757	476527220	475768757	1170528307	1169605932	-922375
Net Addition		-1694300		0		-1413910		2931971		15336		-3009		-758463	0	-922375	
<i>Rural Subscribers</i>	191,133,987	189,364,577	0	0	106720671	105747489	27,158,268	28,401,681	0	0	35202	35200	210479993	210597046	535528121	534145993	-1382128

Proportion of VLR on the date of Peak VLR in the month of July-24 (%)							Annexure-III
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	99.27	63.65	89.88		-	90.31	91.79
Assam	100.06	24.98	91.34		-	94.96	89.05
Bihar	92.27	38.11	86.33		-	89.35	87.40
Delhi	94.39		55.61	16.45	-	90.45	79.31
Gujarat	108.77	65.01	91.57		-	97.07	96.08
Haryana	100.66	29.72	90.88		-	97.21	86.18
Himachal Pradesh	101.47	52.98	103.58		-	99.78	92.36
J & K	91.35	62.80	85.11		-	83.18	85.88
Karnataka	98.92	60.69	80.11		-	93.22	92.64
Kerala	101.54	98.91	93.77		-	89.57	95.34
Kolkata	95.61	65.72	88.18		-	94.97	91.68
Madhya Pradesh	101.09	43.11	83.19		-	92.63	89.56
Maharashtra	105.49	71.15	90.43		-	100.93	97.77
Mumbai	85.46		71.33	73.67	-	85.90	81.13
North East	105.14	52.72	93.19		-	104.76	99.18
Odisha	103.15	47.88	96.72		-	94.18	90.06
Punjab	104.74	46.10	92.64		-	93.34	92.01
Rajasthan	99.12	43.18	88.22		-	91.83	89.76
Tamil Nadu	98.69	71.94	90.47		-	85.00	89.99
U.P. (E)	97.71	36.65	87.48		-	92.67	89.30
U.P. (W)	103.82	44.09	91.14		-	87.76	89.95
West Bengal	100.76	66.22	88.42		-	95.07	94.13
Total	99.05	55.79	85.80	23.27	-	92.64	90.59

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.