

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 22nd January, 2025

(www.trai.gov.in)

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

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Broadband Subscribers (Million)	903.79	40.97	944.76
Urban Telephone Subscribers (Million)	624.32	35.55	659.87
Net Addition in November, 2024 (Million)	-1.23	0.69	-0.54
Monthly Growth Rate	-0.20%	1.98%	-0.08%
Rural Telephone Subscribers (Million)	524.32	2.95	527.27
Net Addition in November, 2024 (Million)	-0.53	0.02	-0.51
Monthly Growth Rate	-0.10%	0.80%	-0.10%
Total Telephone Subscribers (Million)	1148.65	38.50	1187.15
Net Addition in November, 2024 (Million)	-1.77	0.72	-1.05
Monthly Growth Rate	-0.15%	1.89%	-0.09%
Overall Tele-density* (%)	81.59%	2.73%	84.32%
Urban Tele-density* (%)	123.95%	7.06%	131.01%
Rural Tele-density* (%)	57.99%	0.33%	58.31%
Share of Urban Subscribers	54.35%	92.34%	55.58%
Share of Rural Subscribers	45.65%	7.66%	44.42%

- ❖ In the month of November, 2024, 12.79 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 1052.56 million at the end of October-24 to 1065.35 million at the end of November-24, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in November, 2024 was 1060.63 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 1179 operators in November, 2024, in comparison to 1175 operators in October 2024, the total Broadband Subscribers increased from 941.47 million at the end of October-24 to 944.76 million at the end of November-24 with a monthly growth rate of 0.35%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

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

Segment	Broadband subscribers (in million)		Monthly growth rate in the month of November, 2024
	As on 31 st October 2024	As on 30 th November 2024	
Wired subscribers	44.66	40.97	-8.26%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	0.76	5.16	574.93*%
Mobile devices users (Phones and dongles)	896.05	898.63	0.29%
Total	941.47	944.76	0.35%

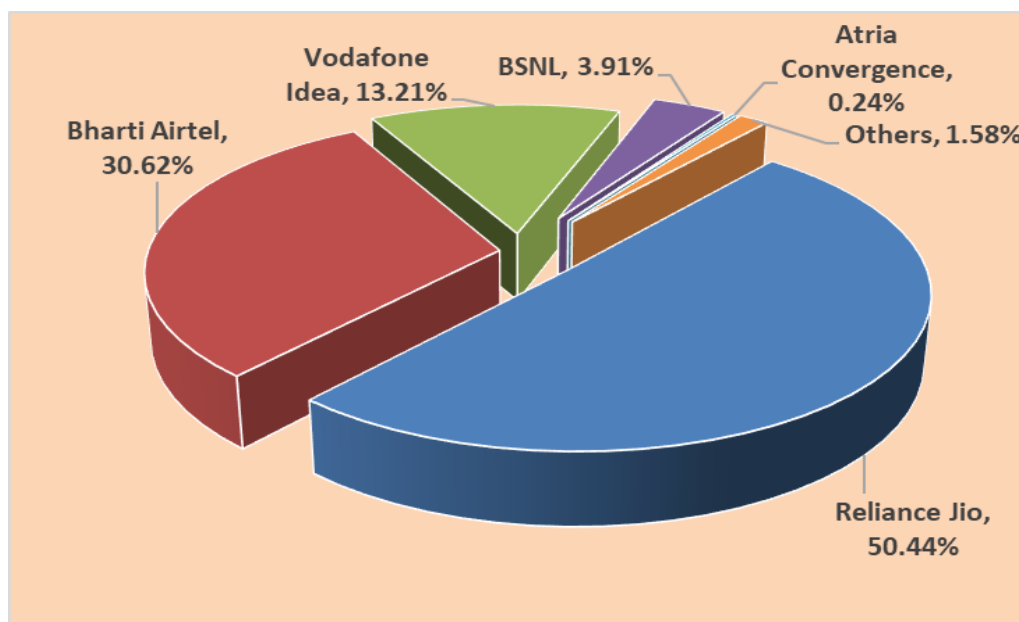
*Significant variation in the subscription count of Wired Broadband and Fixed Wireless is on account of shift in reporting of Fixed Wireless Access (5G) subscription count from wireline segment to wireless segment.

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

S.N.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	476.58
2.	Bharti Airtel Ltd.	289.31
3.	Vodafone Idea Ltd.	124.79
4.	Bharat Sanchar Nigam Ltd.	36.92
5.	Atria Convergence Technologies Limited	2.27
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 30th November, 2024**



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

S.N.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd	11.48
2.	Bharti Airtel Ltd.	8.55
3.	Bharat Sanchar Nigam Ltd.	4.24
4.	Atria Convergence Technologies Limited	2.27
5.	Kerala Vision Broadband Ltd.	1.25
Market Share of Top Five Vs Total Wired Broadband		67.83%

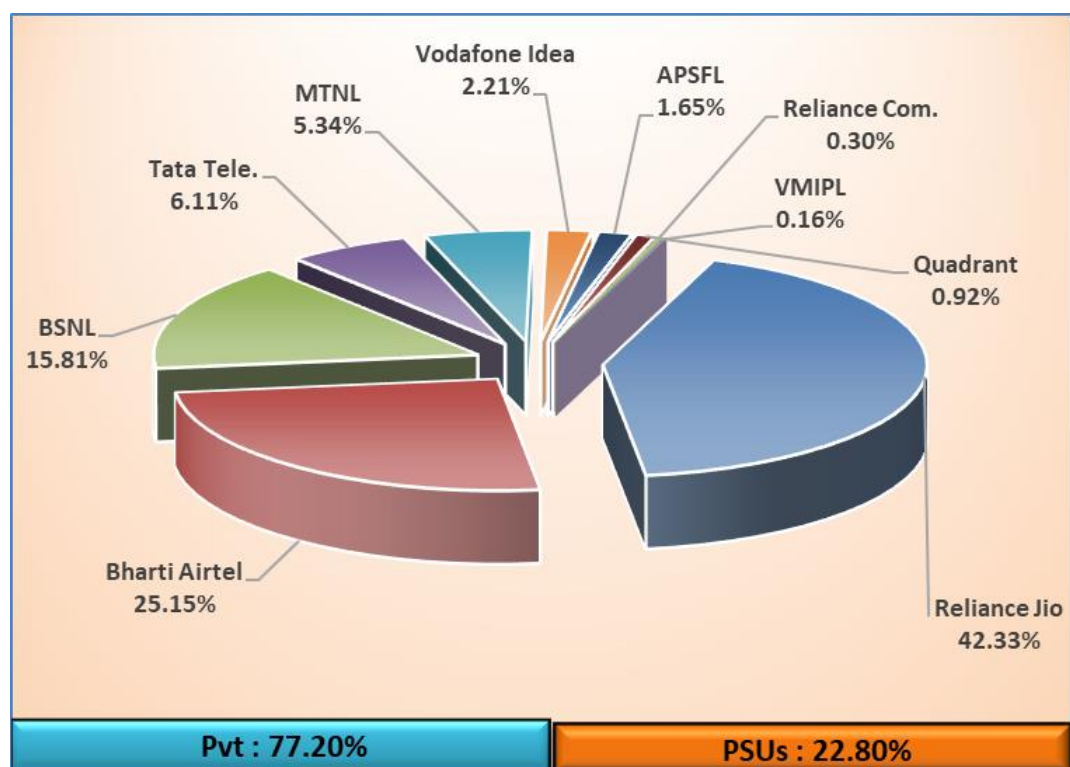
As on 30th November, 2024, top five Wireless Broadband Service providers

S.N.	Name of the Service Provider	Subscriber base (In million)
1.	Reliance Jio Infocomm Ltd.	465.10
2.	Bharti Airtel Ltd.	280.76
3.	Vodafone Idea Ltd.	124.78
4.	Bharat Sanchar Nigam Ltd.	32.68
5.	Intech Online Pvt. Ltd.	0.25
Market Share of Top Five Vs Total Wireless Broadband		99.98%

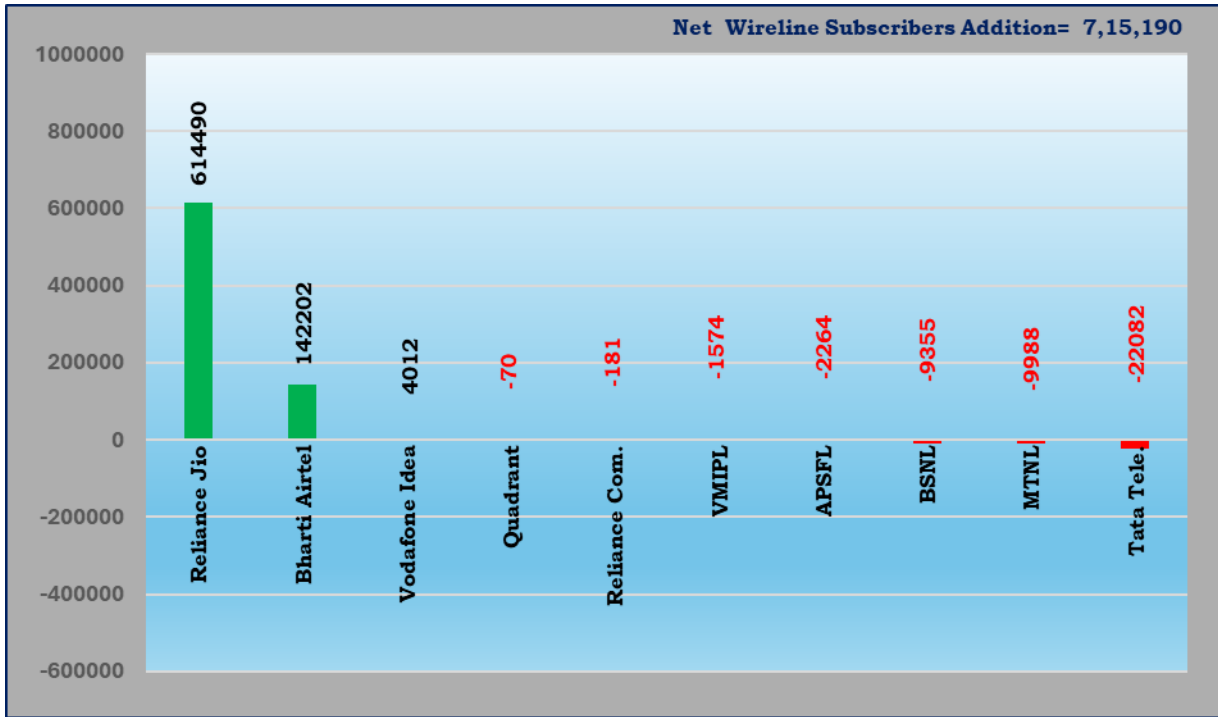
II. Wireline Subscribers

- Wireline subscribers increased from 37.79 million at the end of October-24 to 38.50 million at the end of November-24. Net increase in the wireline subscriber base was 0.72 million with a monthly rate of growth 1.89%. The share of urban and rural subscribers in total wireline subscribers were 92.34% and 7.66% respectively at the end of November, 2024.
- The Overall Wireline Tele-density in India increased from 2.69% at the end of October-24 to 2.73% at the end of November-24. Urban and Rural Wireline Tele-density were 7.06% and 0.33% respectively during the same period.
- BSNL, MTNL and APSFL, the three PSUs access service providers, held 22.80% of the wireline market share as on 30th November, 2024. Detailed statistics of wireline subscriber base are available at **Annexure-I**.

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



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



III. Wireless subscriber

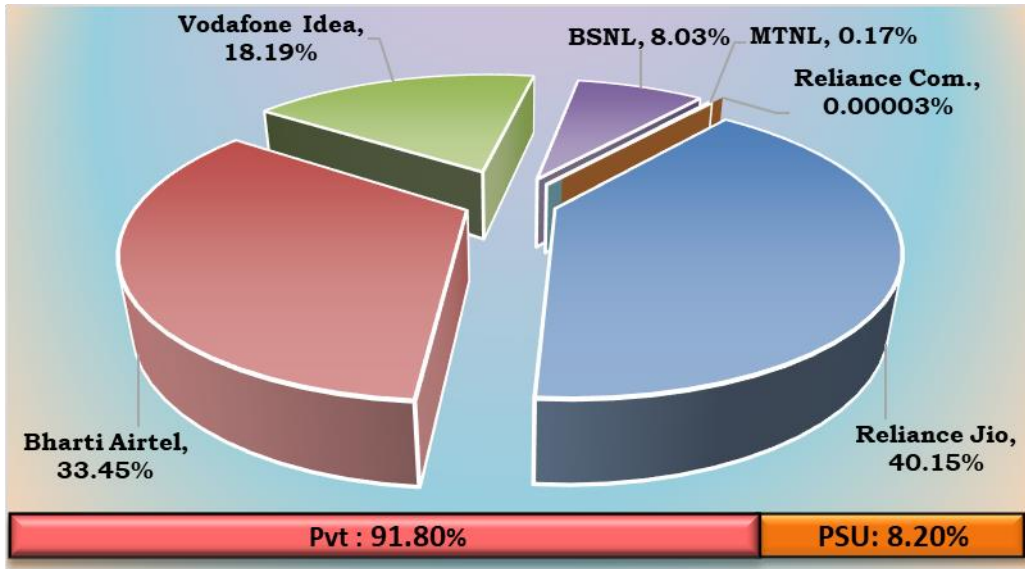
• Total wireless subscribers decreased from 1,150.42 million at the end of October-24, to 1,148.65 million at the end of November-24, thereby registering a monthly decline rate of 0.15%. Wireless subscription in urban areas decreased from 625.56 million at the end of October-24 to 624.32 million at the end of November-24, and wireless subscription in rural areas also decreased from 524.86 million to 524.32 million during the same period. Monthly decline rate of urban and rural wireless subscription was 0.20% and 0.10% respectively.



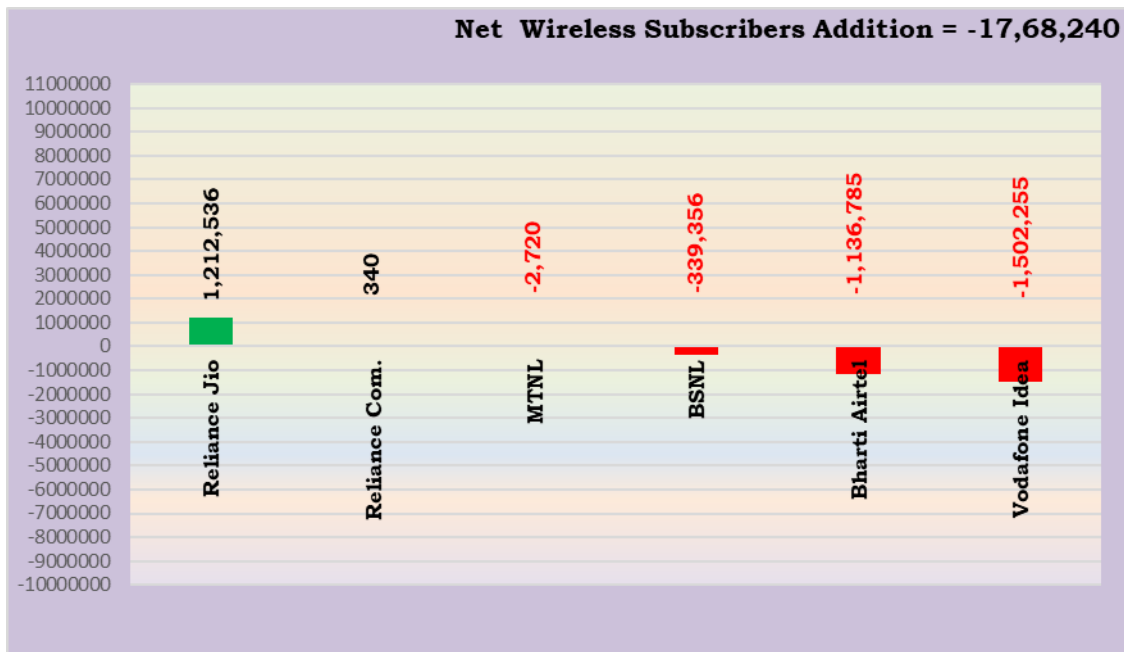
• The Wireless Tele-density in India decreased from 81.77% at the end of October-24 to 81.59% at the end of November-24. The Urban Wireless Tele-density decreased from 124.38% at the end of October-24 to 123.95% at the end of November-24 and Rural Tele-density also decreased from 58.06% to 57.99% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.35% and 45.65% respectively at the end of Nov-24. Detailed statistics of wireless subscriber base is available at **Annexure-II**.

- As on 30th November, 2024, the private access service providers held 91.80% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 8.20%.
- 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 November, 2024

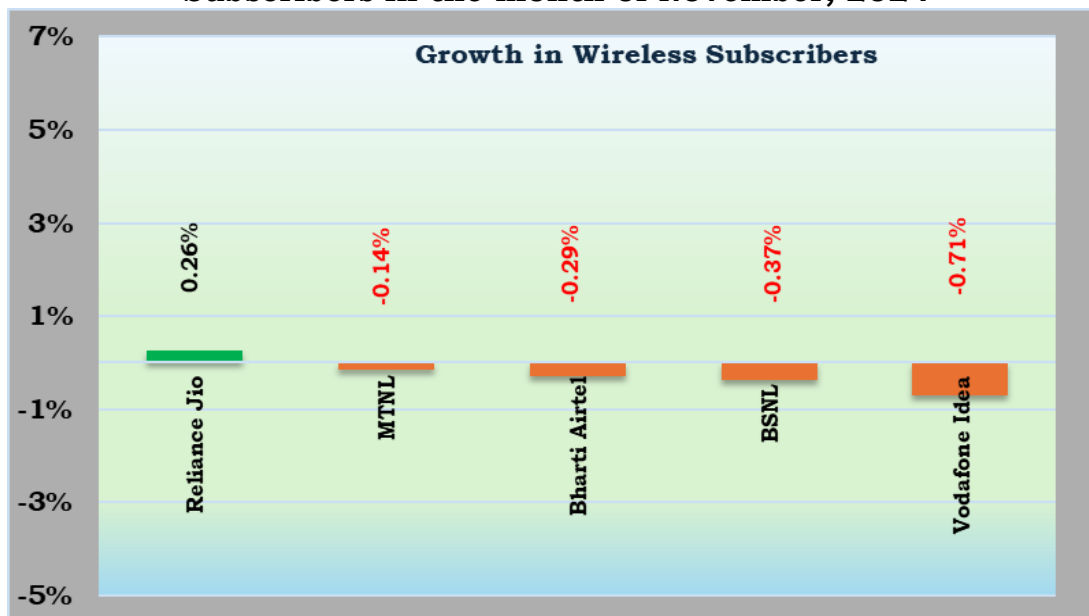


Net Addition in Wireless Subscribers of Access Service Providers in the month of November, 2024



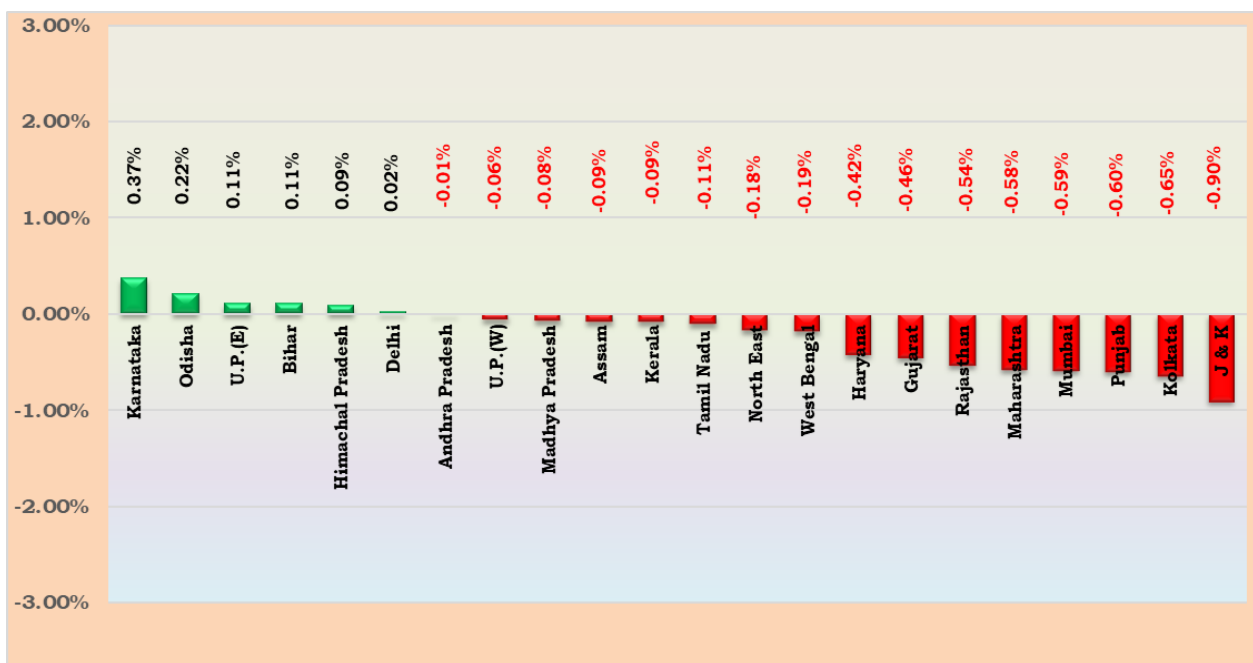
Growth in Wireless Subscribers

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



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

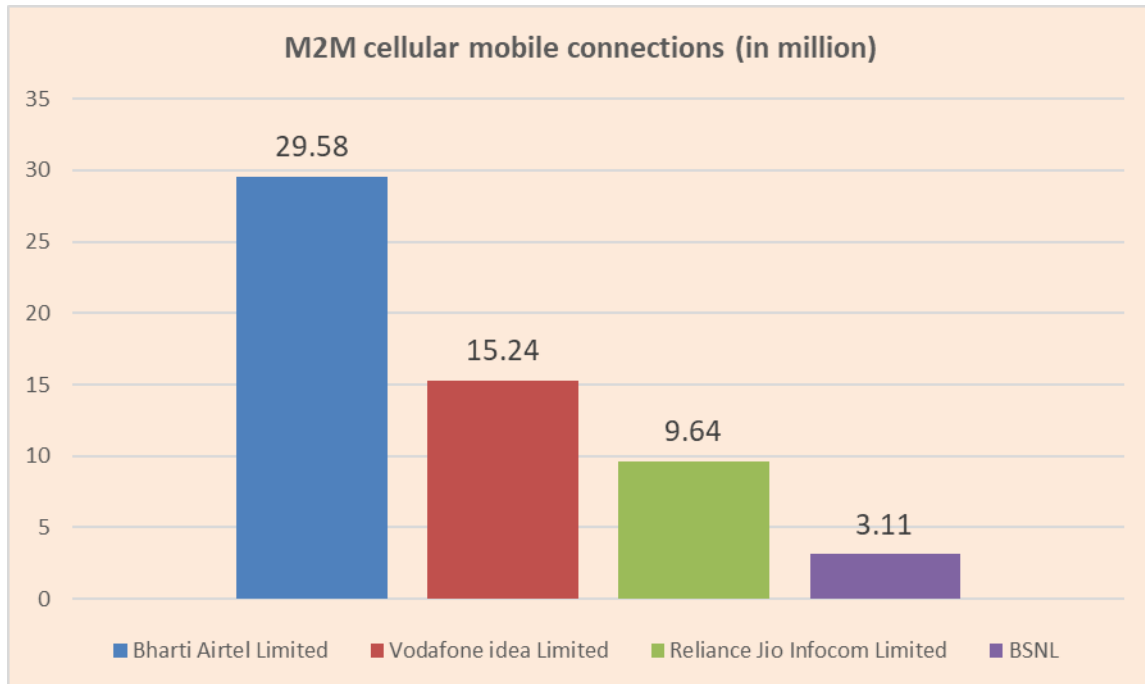
Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of November, 2024



- Except Karnataka, Odisha, U.P.(E), Bihar, Himachal Pradesh and Delhi, all other service areas have showed decline in their wireless subscribers during the month of November-24.

M2M cellular mobile connections

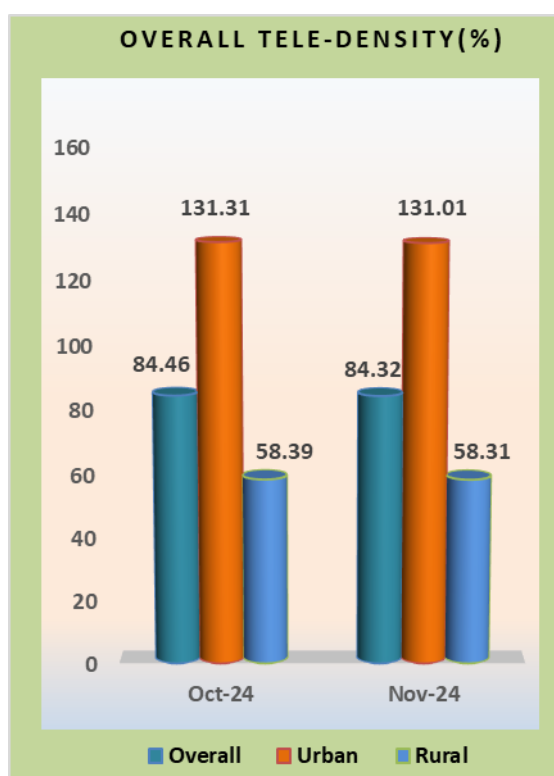
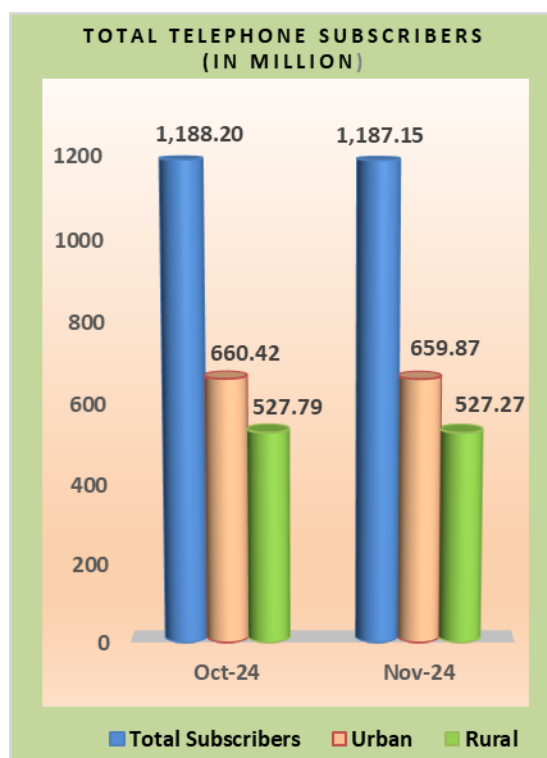
Number of M2M cellular mobile connections increased from 56.12 million at the end of October, 24 to 57.57 million at the end of November, 24.



Bharti Airtel Limited has the highest number of M2M cellular mobile connections 29.58 million with a market share of 51.39% followed by Vodafone idea Limited, Reliance Jio Infocom Limited and BSNL with market share of 26.47%, 16.75% and 5.40% respectively.

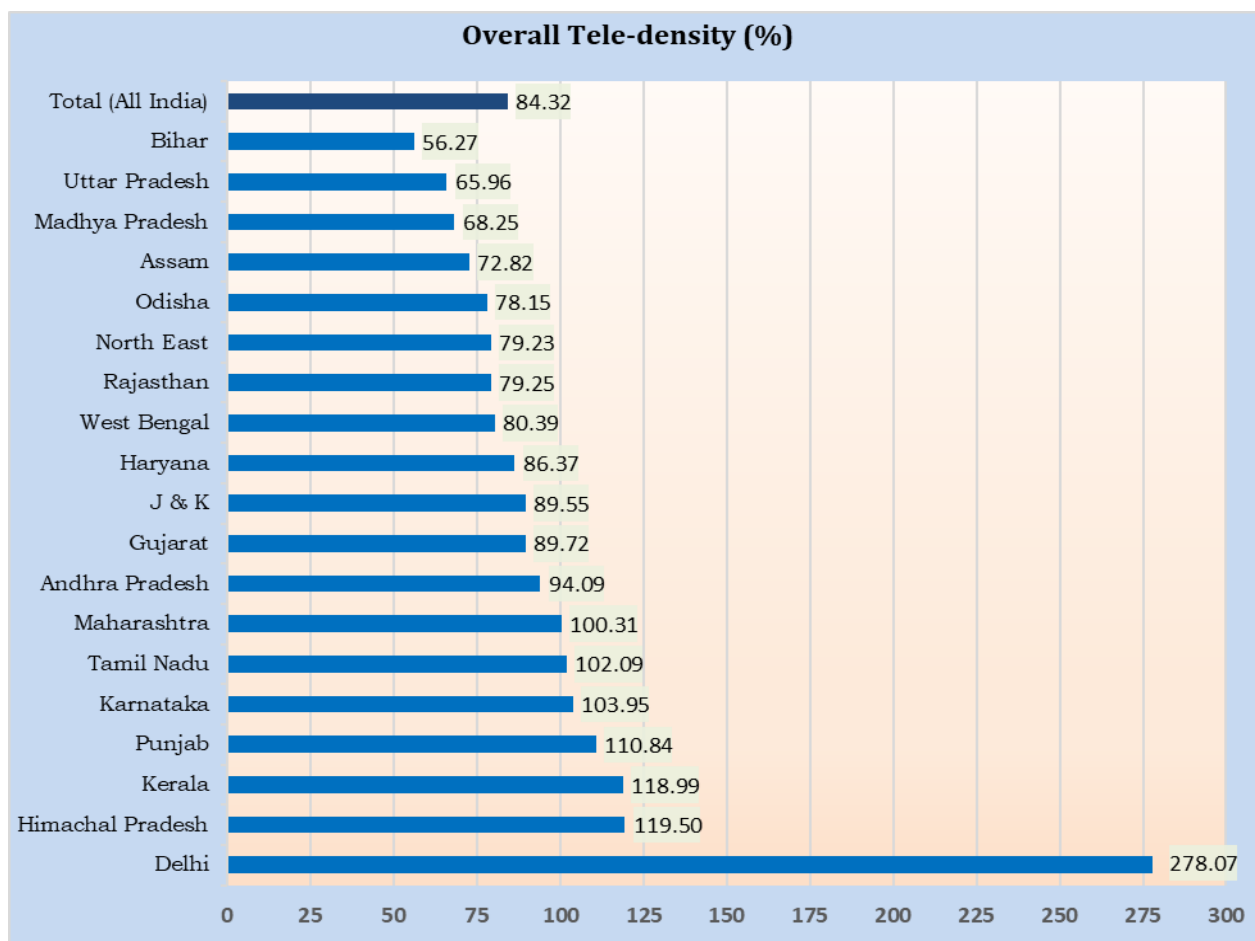
IV. Total Telephone Subscribers

- The number of total telephone subscribers in India decreased from 1,188.20 million at the end of Oct-24 to 1,187.15 million at the end of Nov-24, thereby showing a monthly decline rate of 0.09%. Urban telephone subscription decreased from 660.42 million at the end of Oct-24 to 659.87 million at the end of Nov-24 and the rural subscription also decreased from 527.79 million to 527.27 million during the same period. The monthly decline rates of urban and rural telephone subscription were 0.08% and 0.10% respectively during the month of November-24.



- The overall Tele-density in India decreased from 84.46% at the end of Oct-24 to 84.32% at the end of Nov-24. The Urban Tele-density decreased from 131.31% at the end of Oct-24 to 131.01% at the end of Nov-24 and Rural Tele-density also decreased from 58.39% to 58.31% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of November-24 were 55.58% and 44.42% respectively.

Overall Tele-density (LSA Wise) – As on 30th November, 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 November-24. Delhi service area has maximum tele-density of 278.07% and the Bihar service area has minimum tele-density of 56.27% at the end of November-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 November, 2024

Circle Category	Net additions in the month of November, 2024		Telephone Subscriber base as on 30 th November, 2024	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	271132	-669921	14841212	382915289
Circle B	278470	-794971	10830572	464915989
Circle C	92283	30355	3267251	188070075
Metro	73305	-333703	9562109	112745558
All India	715190	-1768240	38501144	1148646911

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

Circle Category	Monthly growth rate (%) (October-24 to November-24)		Yearly growth rate (%) (November-23 to November-24)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.86%	-0.17%	20.31%	-0.91%
Circle B	2.64%	-0.17%	34.25%	-0.66%
Circle C	2.91%	0.02%	36.59%	1.26%
Metro	0.77%	-0.30%	9.01%	-1.11%
All India	1.89%	-0.15%	21.97%	-0.48%

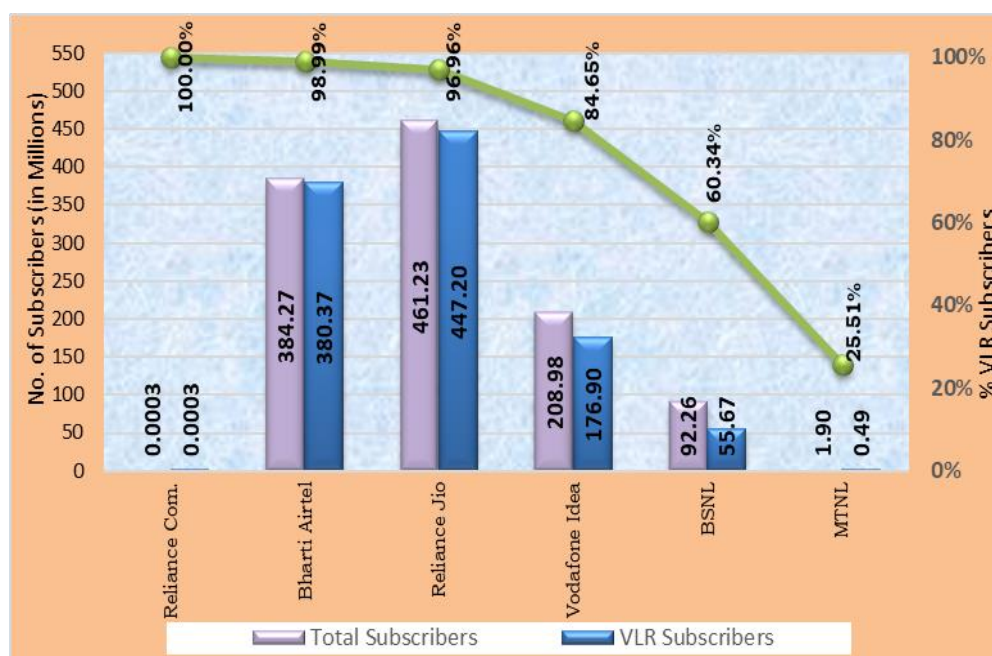
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

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

VI. Active Wireless Subscribers (VLR Data)

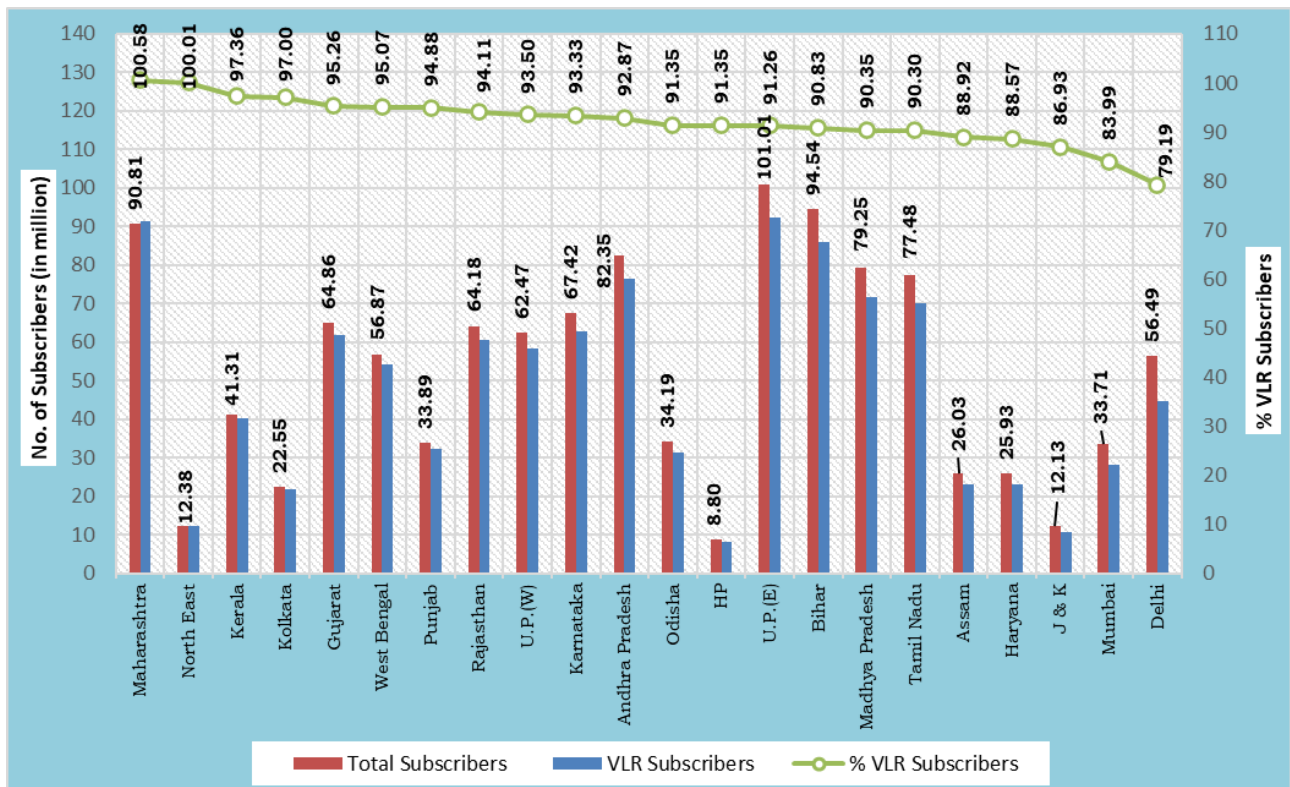
- Out of the total 1,148.65 million wireless subscribers, 1060.63 million wireless subscribers were active on the date of peak VLR in the month of November-24. The proportion of active wireless subscribers was approximately 92.34% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of November-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 November, 2024



- Reliance Communication 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 November-24 and MTNL has the minimum proportion of VLR 25.51% of its HLR during the same period.

Service Area wise percentage of VLR Subscribers in the month of November, 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 November-24, a total of 12.79 million requests were received for MNP. Out of total 12.79 million, new requests received from Zone-I & Zone-II were 7.09 million and 5.70 million respectively. The cumulative MNP requests increased from 1052.56 million at the end of October-24 to 1065.35 million at the end of November-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 104.35 million) followed by Maharashtra (about 86.94 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 83.42 million) followed by Karnataka (about 71.37 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)	
	Oct-24	Nov-24		Oct-24	Nov-24
Delhi	50.28	50.82	Andhra Pradesh	69.53	70.19
Gujarat	71.66	72.45	Assam	7.68	7.78
Haryana	33.22	33.59	Bihar	59.88	60.86
Himachal Pradesh	4.46	4.50	Karnataka	70.82	71.37
Jammu & Kashmir	2.91	2.97	Kerala	25.15	25.40
Maharashtra	85.95	86.94	Kolkata	19.24	19.43
Mumbai	34.90	35.15	Madhya Pradesh	82.28	83.42
Punjab	34.71	35.01	North East	2.43	2.45
Rajasthan	71.18	71.80	Odisha	18.45	18.66
U.P.(East)	102.49	104.35	Tamil Nadu	66.32	66.92
U.P.(West)	77.34	78.59	West Bengal	61.68	62.68
Total	569.09	576.18	Total	483.46	489.16
Total (Zone-I + Zone-II)				1,052.56	1,065.35
Net Addition (November, 2024)		12.79 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
	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	
Andhra Pradesh	504886	503480			739563	774907	17255	16956	227597	223740			92835	85645	1819626	1867492			636808	634544	4038570	4106764	68194
Assam	71636	71044			47855	49027	0	0	0	0			2490	2610	268973	281140					390954	403821	12867
Bihar	145451	143910			274931	283137	9	9	11919	11863			5645	5641	809432	847362					1247387	1291922	44535
Delhi	0	0	976288	975072	2262761	2280061	15059	15147	233480	235664			83528	81261	1205415	1230702					4776531	4817907	41376
Gujarat	282652	279214			295747	297374	2615	2614	189427	180564			122451	124354	980909	1041848					1873801	1925968	52167
Haryana	222520	221245			186139	186169	0	0	40829	39922			510	450	248007	263573					698005	711359	13354
Himachal Pradesh	88459	88416			13235	13511	0	0	1353	1351			90	90	89833	93788					192970	197156	4186
J & K	60787	59749			125123	125833	0	0	0	0			30	30	276351	287098					462291	472710	10419
Karnataka	505137	509275			1263091	1277892	16067	16143	467589	465730			163744	162174	1244720	1280453					3660348	3711667	51319
Kerala	1069252	1071481			116532	117867	2721	2686	17547	17535			7030	7140	406934	420499					1620016	1637208	17192
Kolkata	181110	180509			211542	211849	3635	3636	65592	64662			15834	15304	639379	654208					1117092	1130168	13076
Madhya Pradesh	228926	239765			570724	577993	5	5	52411	43110			74895	89695	1077161	1130081					2004122	2080649	76527
Maharashtra	487846	483548			554852	578087	7381	7373	222847	222829			19256	20336	594668	640703					1886850	1952876	66026
Mumbai	3800	3800	1087860	1079088	637229	641322	34351	34339	626842	631549			184316	184386	1020783	1039550					3595181	3614034	18853
North East	58718	57712			0	0	0	0	0	0			510	510	235884	242848					295112	301070	5958
Odisha	129819	128682			65814	67678	4	4	16667	16457			3550	3490	370400	384261					586254	600572	14318
Punjab	515243	515232			345914	356819	1812	1813	15494	15232	355985	355915	1560	1560	591833	626853	65097	63523			1892938	1936947	44009
Rajasthan	241076	238542			308927	312047	3085	3085	24547	24431			14145	13665	625664	653210					1217444	1244980	27536
Tamil Nadu	857944	860683			969435	974009	13206	13209	136704	134563			34665	32915	1098557	1128558					3110511	3143937	33426
U.P.(E)	102324	99313			278800	281436	27	27	13107	12688			16710	16560	823207	869337					1234175	1279361	45186
U.P.(W)	157190	154582			195687	197369	8	8	6864	6841			4151	4141	868984	908764					1232884	1271705	38821
West Bengal	183029	178268			78530	80246	21	26	2570	2573			150	150	388218	407100					652518	668363	15845
Total	6097805	6088450	2064148	2054160	9542431	9684633	117261	117080	2373386	2351304	355985	355915	848095	852107	15684938	16299428	65097	63523	636808	634544	37785954	38501144	715190
Net Addition		-9355		-9988		142202		-181		-22082		-70		4012		614490		-1574		-2264		715190	
Rural Subscribers	1,978,357	1,978,945	29	29	2,595	2,577	300	300	6,466	6,338	61,090	61,800	0	0	406,993	430,902	0	0	471,238	469,563	292,7068	295,0454	23,386

Wireless Subscriber Base

Annexure-II

Circle	Bharti Airtel		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	Oct-24	Nov-24	
Andhra Pradesh	33,741,507	33,686,681	0	0	10,223,247	10,138,599	6,747,075	6,799,880					31,642,502	31,722,937	82354331	82348097	-6234
Assam	11,890,497	11,886,126	0	0	1,465,211	1,436,362	2,984,559	2,990,873					9,710,611	9,714,678	26050878	26028039	-22839
Bihar	40,526,286	40,510,920	0	0	7,493,956	7,454,845	6,049,430	5,977,315					40,364,110	40,594,269	94433782	94537349	103567
Delhi	18,407,951	18,362,907	0	1	16,774,937	16,808,326					1,684,424	1,684,377	19,608,802	19,633,269	56476114	56488880	12766
Gujarat	12,183,652	12,139,442	0	16	19,965,032	19,815,105	3,321,146	3,326,904					29,689,509	29,576,662	65159339	64858129	-301210
Haryana	7,099,729	7,036,790	0	0	6,513,780	6,454,877	4,134,037	4,131,662					8,292,980	8,307,262	26040526	25930591	-109935
Himachal Pradesh	3,542,799	3,545,058	0	0	381,834	380,490	1,649,665	1,658,686					3,222,401	3,220,511	8796699	8804745	8046
J & K	6,101,786	6,100,700	0	0	268,400	261,339	924,203	874,481					4,949,994	4,897,080	12244383	12133600	-110783
Karnataka	32,164,155	32,123,159	0	214	6,413,163	6,494,622	4,550,894	4,575,413					24,043,176	24,227,858	67171388	67421266	249878
Kerala	8,825,708	8,792,441	0	0	13,137,419	13,109,867	8,703,442	8,727,432					10,684,182	10,683,501	41350751	41313241	-37510
Kolkata	5,469,883	5,448,616	0	0	5,065,800	5,009,300	1,545,662	1,459,804					10,612,514	10,629,555	22693859	22547275	-146584
Madhya Pradesh	16,408,516	16,305,289	0	0	14,479,494	14,225,490	5,136,269	5,141,934					43,289,681	43,578,330	79313960	79251043	-62917
Maharashtra	22,377,901	22,291,217	0	0	21,203,996	20,957,137	5,777,662	5,597,750					41,977,346	41,964,863	91336905	90810967	-525938
Mumbai	10,067,105	10,017,055	0	11	10,710,796	10,722,373					220,214	217,541	12,911,173	12,752,423	33909288	33709403	-199885
North East	6,267,645	6,255,114	0	0	678,360	666,730	1,292,344	1,290,175					4,161,863	4,166,376	12400212	12378395	-21817
Odisha	11,745,462	11,719,282	0	0	1,389,017	1,382,612	5,548,276	5,563,824					15,431,011	15,522,229	34113766	34187947	74181
Punjab	12,413,856	12,322,078	0	5	6,205,616	6,161,777	4,192,814	4,140,544					11,285,463	11,269,097	34097749	33893501	-204248
Rajasthan	23,092,425	22,981,843	0	89	9,586,222	9,446,954	5,602,409	5,603,503					26,244,976	26,145,912	64526032	64178301	-347731
Tamil Nadu	29,862,485	29,787,706	0	0	15,084,404	15,040,723	7,797,945	7,813,641	206,894	212,011			24,611,519	24,622,749	77563247	77476830	-86417
U.P.(E)	36,229,144	36,139,722	0	0	16,318,731	16,161,262	8,373,386	8,362,471					39,975,868	40,347,070	100897129	101010525	113396
U.P.(W)	18,802,873	18,666,890	0	0	14,819,932	14,694,545	5,343,136	5,321,946					23,541,401	23,784,405	62507342	62467786	-39556
West Bengal	18,189,381	18,154,925	0	4	12,298,014	12,151,771	2,721,928	2,693,571					23,768,148	23,870,730	56977471	56871001	-106470
Total	385410746	384273961	0	340	210477361	208975106	92396282	92051809	206894	212011	1904638	1901918	460019230	461231766	1150415151	1148646911	-1768240
Net Addition		-1136785		340		-1502255		-344473		5117		-2720		1212536	0	-1768240	
Rural Subscribers	188,992,003	189,477,736	0	0	101687786	100593734	30,054,775	29,382,407	0	0	35,204	35,204	204088838	204835425	524858606	524324506	-534100

Proportion of VLR on the date of Peak VLR in the month of Nov-24 (%)							Annexure-III
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	98.60	72.26	88.92		-	92.47	92.87
Assam	98.06	28.01	91.59		-	96.09	88.92
Bihar	91.36	39.51	85.98		-	98.75	90.83
Delhi	94.17		53.47	19.33	100.00	92.34	79.19
Gujarat	107.17	56.81	89.87		100.00	98.31	95.26
Haryana	101.67	34.31	91.32		-	102.31	88.57
Himachal Pradesh	96.69	54.65	100.85		-	103.25	91.35
J & K	87.60	66.02	85.25		-	89.93	86.93
Karnataka	98.60	62.58	75.56		100.00	96.93	93.33
Kerala	100.03	105.86	93.21		-	93.34	97.36
Kolkata	97.71	93.26	86.48		-	102.12	97.00
Madhya Pradesh	98.43	44.54	83.37		-	95.01	90.35
Maharashtra	105.33	82.27	91.07		-	105.24	100.58
Mumbai	93.29		69.48	73.36	100.00	89.07	83.99
North East	106.18	53.22	94.53		-	106.10	100.01
Odisha	103.47	48.62	90.70		-	97.57	91.35
Punjab	105.88	55.68	89.45		100.00	100.23	94.88
Rajasthan	101.31	46.34	90.36		100.00	99.38	94.11
Tamil Nadu	98.49	77.84	87.67		-	86.06	90.30
U.P. (E)	97.76	40.22	88.47		-	97.13	91.26
U.P. (W)	105.83	48.03	88.64		-	97.01	93.50
West Bengal	99.60	72.24	86.97		100.00	98.33	95.07
Total	98.99	60.34	84.65	25.51	100.00	96.96	92.34

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.