



सत्यमेव जयते

TELECOM REGULATORY AUTHORITY OF INDIANew Delhi, 11th March, 2025

(www.traigov.in)

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

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Broadband Subscribers (Million)	903.78	41.19	944.96
Urban Telephone Subscribers (Million)	627.08	36.29	663.37
Net Addition in December, 2024 (Million)	2.75	0.74	3.50
Monthly Growth Rate	0.44%	2.09%	0.53%
Rural Telephone Subscribers (Million)	523.58	2.98	526.56
Net Addition in December, 2024 (Million)	-0.74	0.03	-0.72
Monthly Growth Rate	-0.14%	0.85%	-0.14%
Total Telephone Subscribers (Million)	1150.66	39.27	1189.92
Net Addition in December, 2024 (Million)	2.01	0.77	2.78
Monthly Growth Rate	0.17%	1.99%	0.23%
Overall Tele-density*(%)	81.67%	2.79%	84.45%
Urban Tele-density*(%)	124.31%	7.19%	131.50%
Rural Tele-density*(%)	57.89%	0.33%	58.22%
Share of Urban Subscribers	54.50%	92.42%	55.75%
Share of Rural Subscribers	45.50%	7.58%	44.25%

- ❖ In the month of December, 2024, 13.85 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 1065.35 million at the end of November-24 to 1079.19 million at the end of December-24, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in December, 2024 was 1060.34 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://nhm.gov.in/New_Updates_2018/Report_Population_Projection_2019.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 1192 operators in December, 2024, in comparison to 1179 operators in November 2024, the total Broadband Subscribers increased from 944.76 million at the end of November-24 to 944.96 million at the end of December-24 with a monthly growth rate of 0.02%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

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

Segment	Subscription	Subscribers (in million)		% Change
		Nov-24	Dec-24	
Wired subscribers	Fixed (wired) Broadband (DSL, FTTx, Ethernet/LAN, Cable Modem, ILL)	40.97	41.19	0.52%*
Wireless Subscribers	Fixed Wireless Broadband (FWA, Wi-Fi, Wi-Max, Radio, Satellite)	5.16	5.21	1.03%*
	Mobile Broadband (Handset/Dongle based)	898.63	898.57	-0.01%
Total		944.76	944.96	0.02%

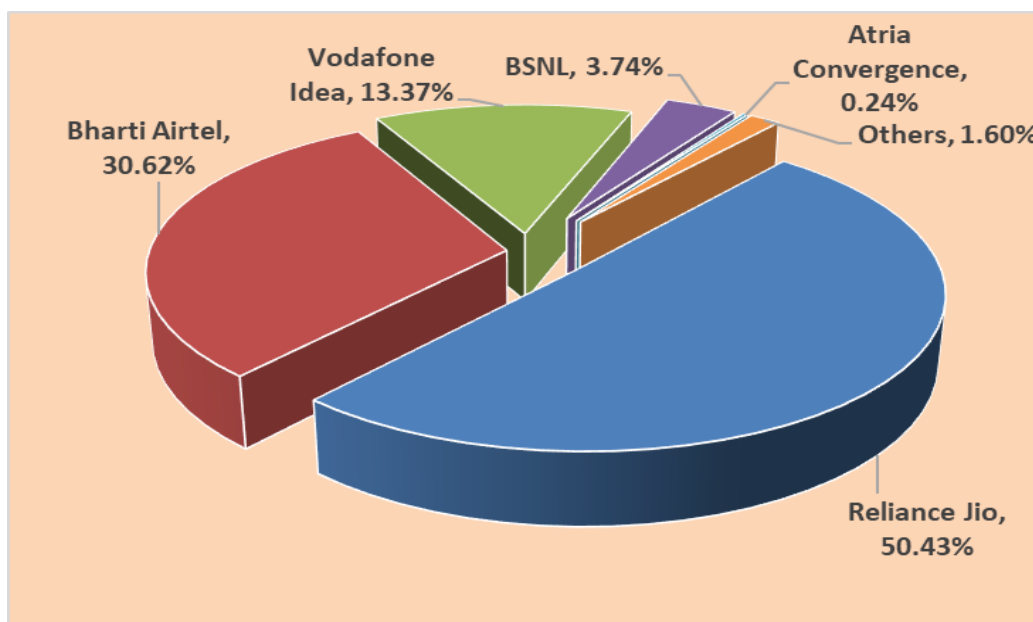
*This report is prepared considering the last reported (Nov 2024) internet subscription data submitted by M/s RJIL and M/s Bharti Airtel Ltd., as the requisite internet subscription data for the month of Dec 2024 is not submitted by them.

As on 31st December, 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.	126.38
4.	Bharat Sanchar Nigam Ltd.	35.33
5.	Atria Convergence Technologies Limited	2.27
Market Share of Top Five Vs Total Broadband (Wired+Wireless)		98.40%

- 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 December, 2024**



As on 31st December, 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.	1.27
Market Share of Top Five Vs Total Wired Broadband		67.54%

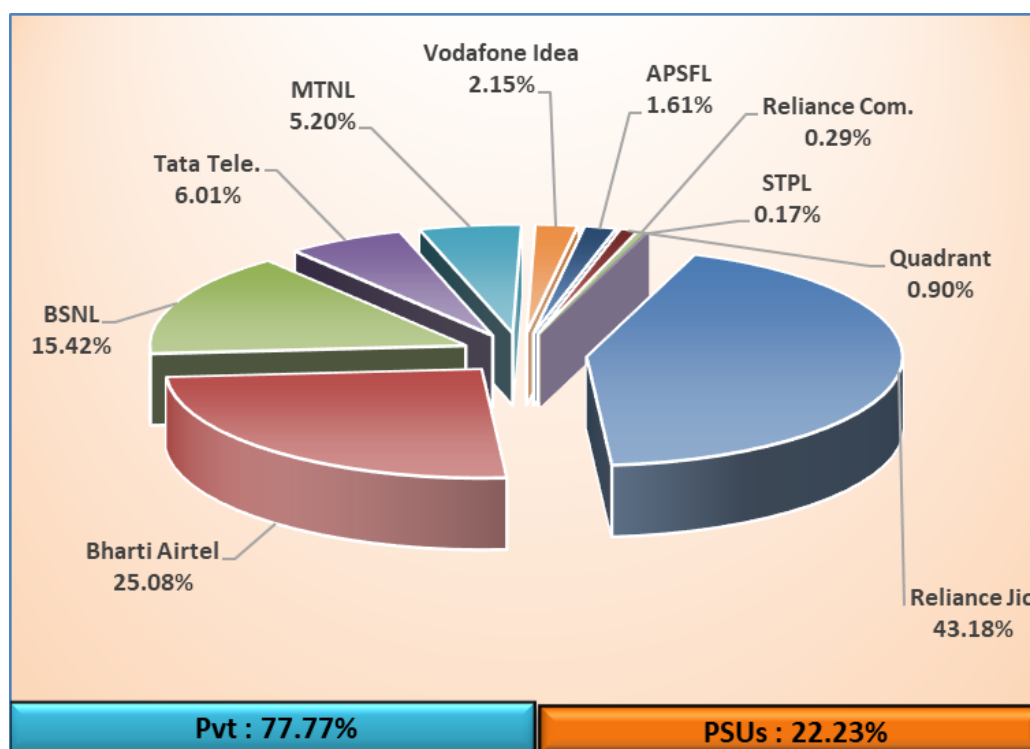
As on 31st December, 2024, top five Wireless Broadband Service providers

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.	126.37
4.	Bharat Sanchar Nigam Ltd.	31.08
5.	Intech Online Pvt. Ltd.	0.25
Market Share of Top Five Vs Total Wireless Broadband		99.98%

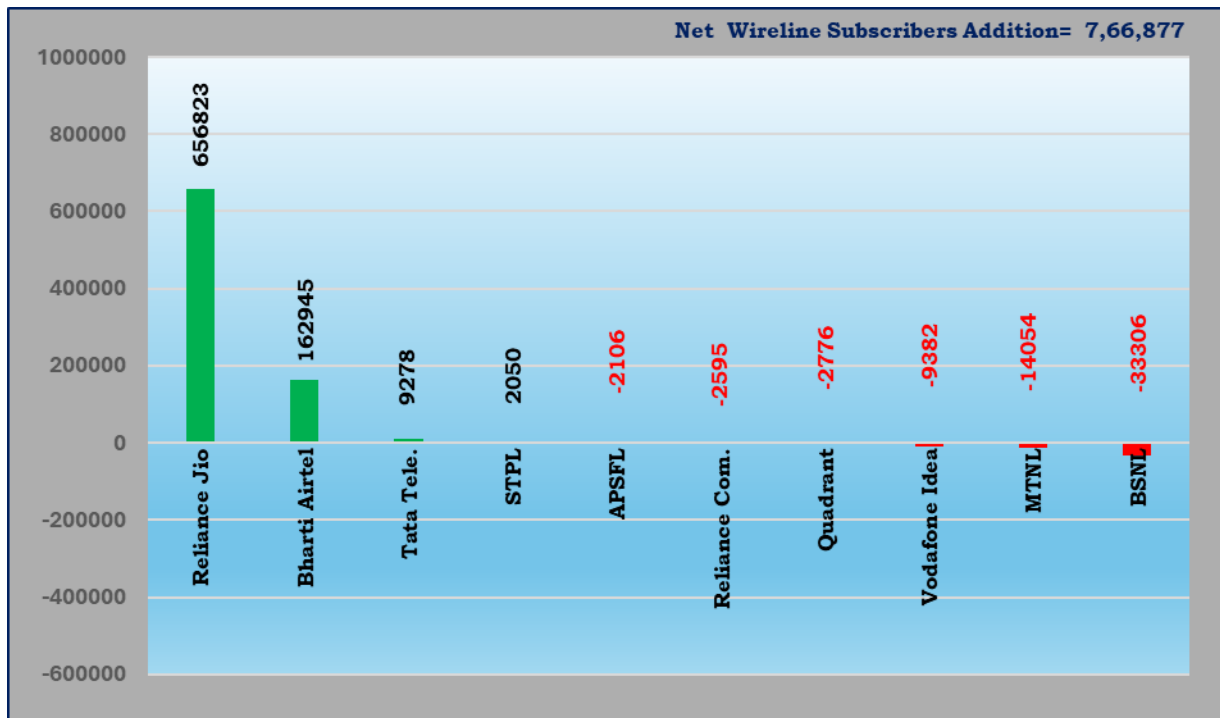
II. Wireline Subscribers

- Wireline subscribers increased from 38.50 million at the end of November-24 to 39.27 million at the end of December-24. Net increase in the wireline subscriber base was 0.77 million with a monthly rate of growth 1.99%. The share of urban and rural subscribers in total wireline subscribers were 92.42% and 7.58% respectively at the end of December, 2024.
- The Overall Wireline Tele-density in India increased from 2.73% at the end of November-24 to 2.79% at the end of December-24. Urban and Rural Wireline Tele-density were 7.19% and 0.33% respectively during the same period.
- BSNL, MTNL and APSFL, the three PSUs access service providers, held 22.23% of the wireline market share as on 31st December, 2024. Detailed statistics of wireline subscriber base are available at **Annexure-I**.

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



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



III. Wireless subscriber

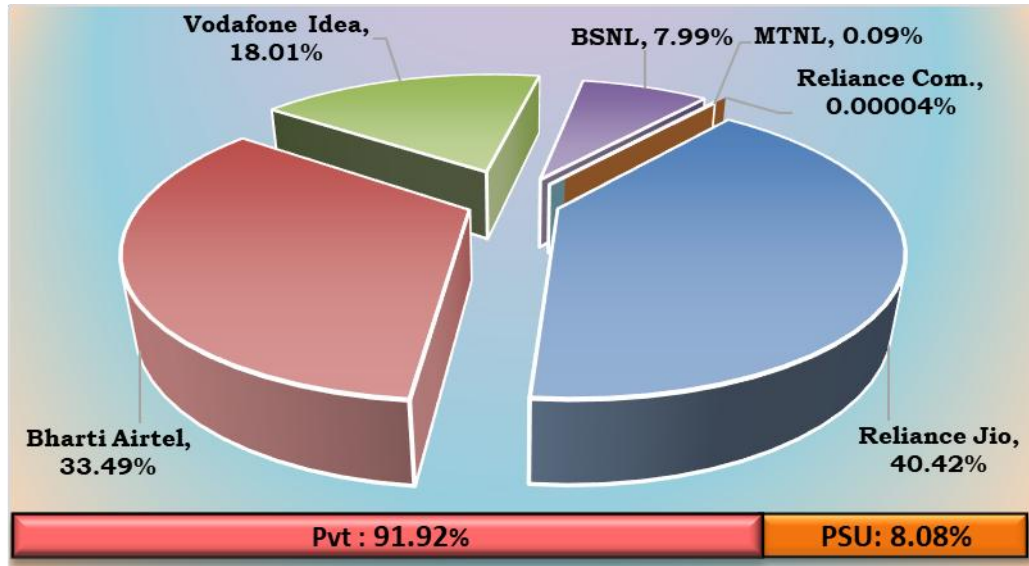
• Total wireless subscribers increased from 1,148.65 million at the end of November-24, to 1,150.66 million at the end of December-24, thereby registering a monthly growth rate of 0.17%. Wireless subscription in urban areas increased from 624.32 million at the end of November-24 to 627.08 million at the end of December-24, however wireless subscription in rural areas decreased from 524.32 million to 523.58 million during the same period. Monthly growth rate of urban and rural wireless subscription was 0.44% and -0.14% respectively.



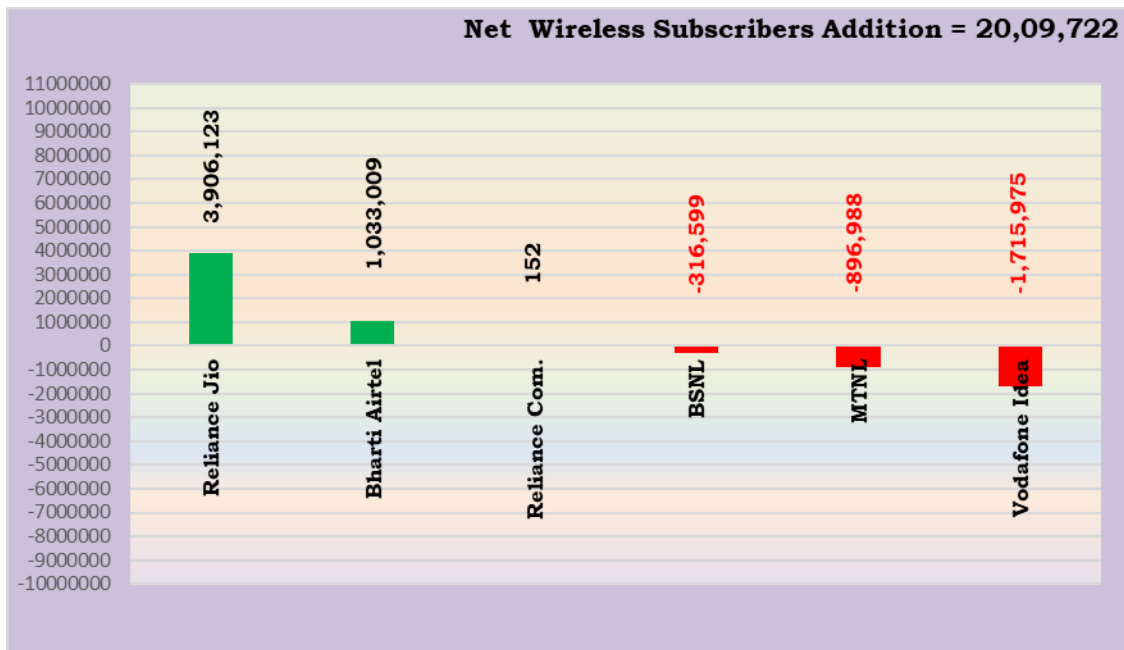
• The Wireless Tele-density in India increased from 81.59% at the end of November-24 to 81.67% at the end of December-24. The Urban Wireless Tele-density increased from 123.95% at the end of November-24 to 124.31% at the end of December-24 however Rural Tele-density decreased from 57.99% to 57.89% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.50% and 45.50% respectively at the end of December-24. Detailed statistics of wireless subscriber base is available at **Annexure-II.**

- As on 31st December, 2024, the private access service providers held 91.92% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 8.08%.
- 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 December, 2024

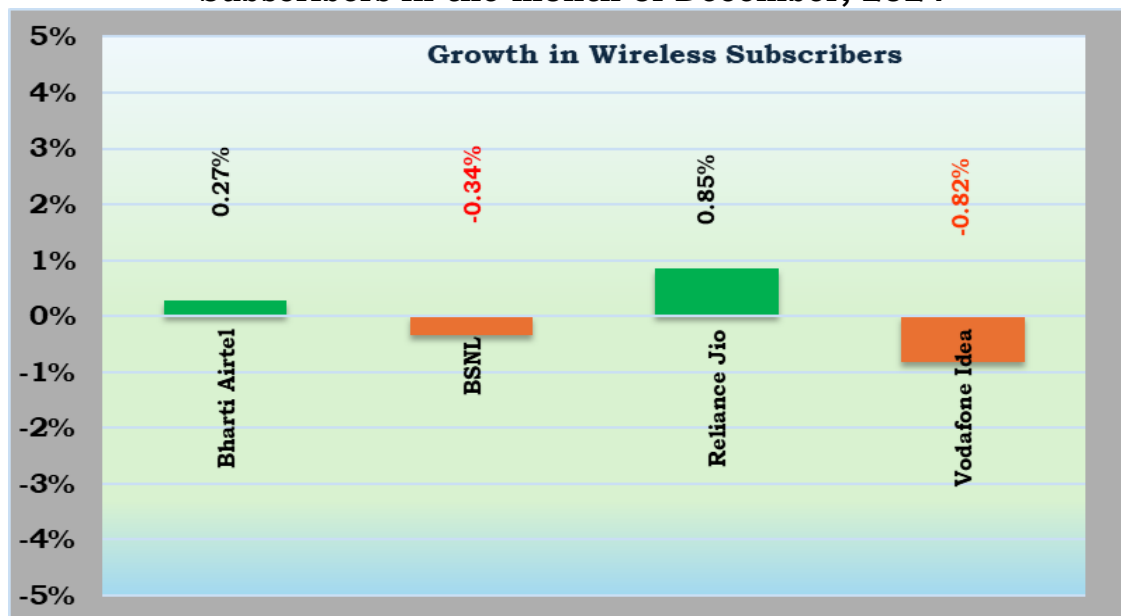


Net Addition in Wireless Subscribers of Access Service Providers in the month of December, 2024



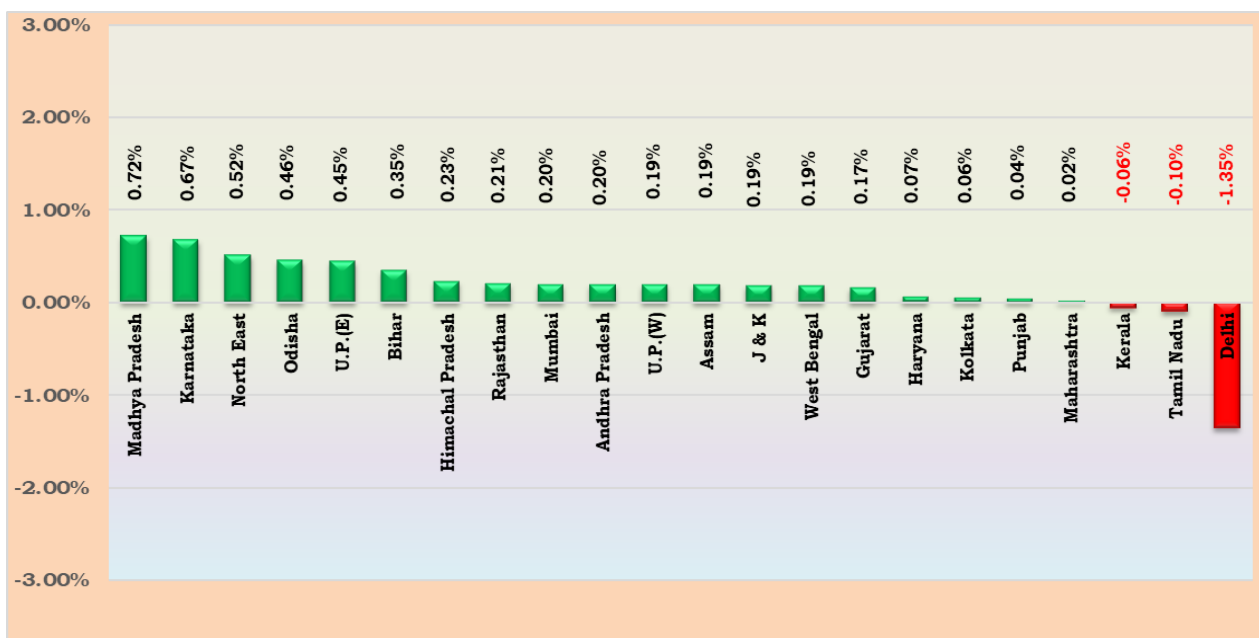
Growth in Wireless Subscribers

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



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

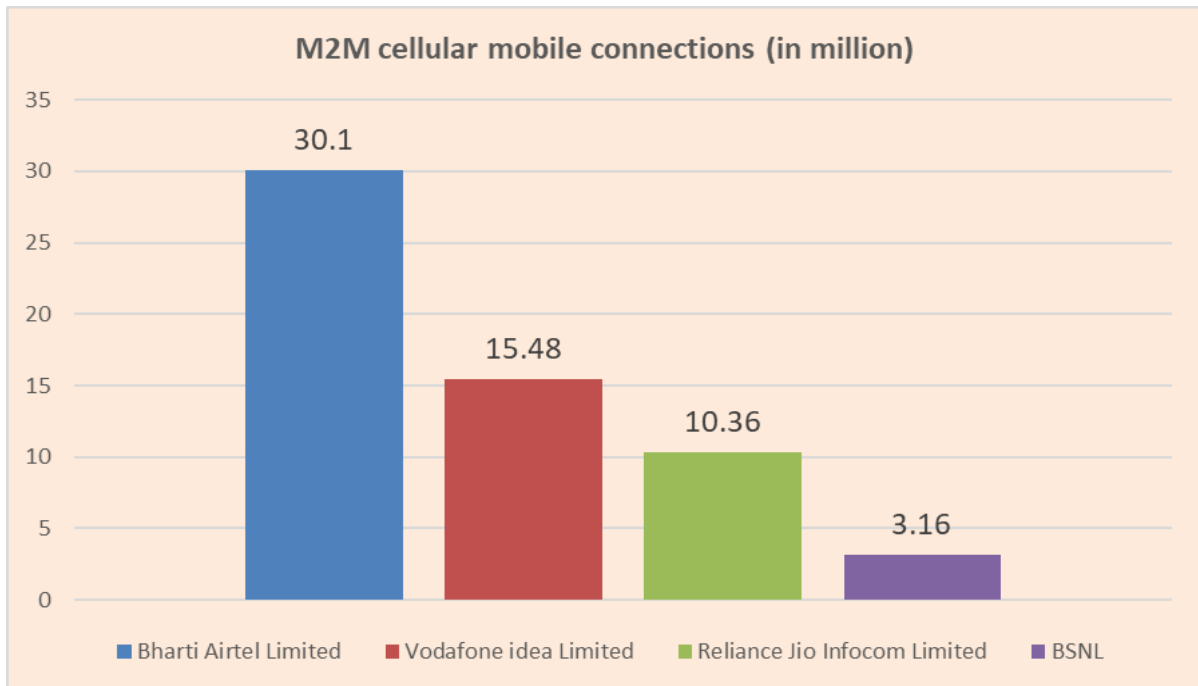
Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of December, 2024



- Except Kerala, Tamil Nadu, Delhi, all other service areas have showed growth in their wireless subscribers during the month of December-24.

M2M cellular mobile connections

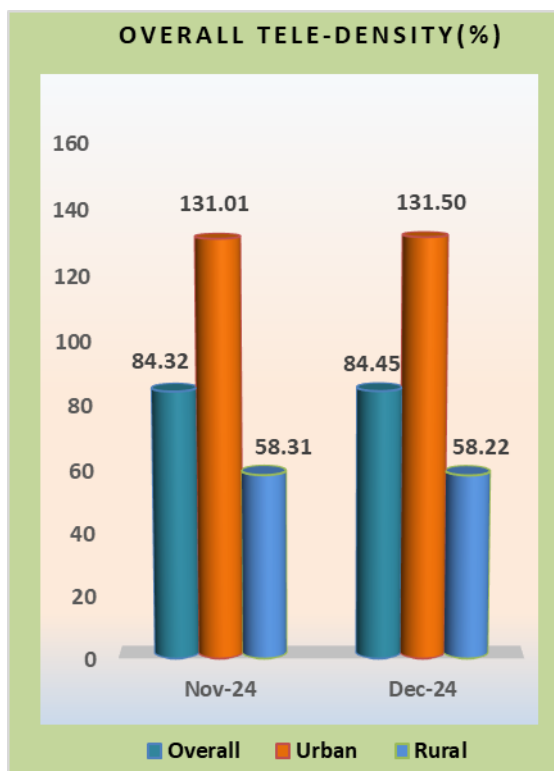
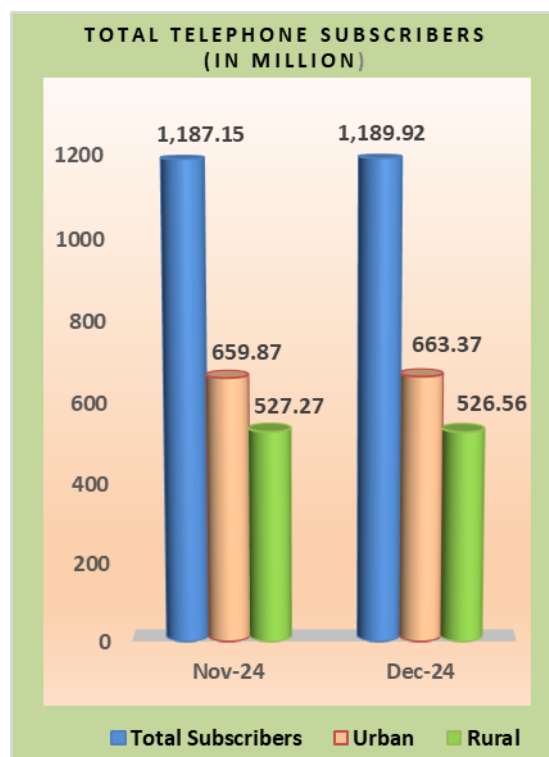
Number of M2M cellular mobile connections increased from 57.57 million at the end of November-24 to 59.09 million at the end of December-24.



Bharti Airtel Limited has the highest number of M2M cellular mobile connections 30.1 million with a market share of 50.93% followed by Vodafone idea Limited, Reliance Jio Infocom Limited and BSNL with market share of 26.20%, 17.52% and 5.34% respectively.

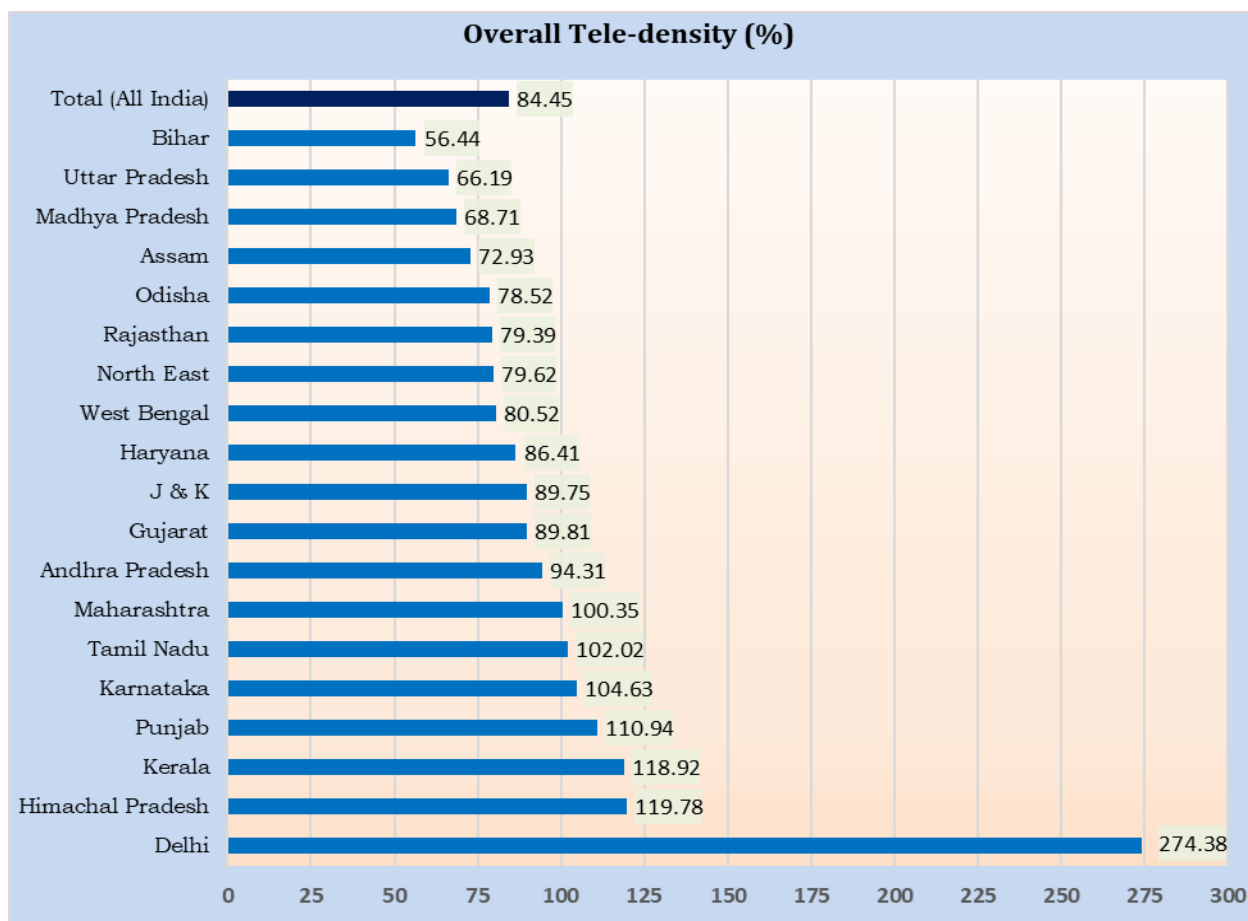
IV. Total Telephone Subscribers

- The number of total telephone subscribers in India increased from 1,187.15 million at the end of Nov-24 to 1,189.92 million at the end of Dec-24, thereby showing a monthly growth rate of 0.23%. Urban telephone subscription increased from 659.87 million at the end of Nov-24 to 663.37 million at the end of Dec-24 however the rural subscription decreased from 527.27 million to 526.56 million during the same period. The monthly growth rates of urban and rural telephone subscription were 0.53% and -0.14% respectively during the month of December-24.



- The overall Tele-density in India increased from 84.32% at the end of Nov-24 to 84.45% at the end of Dec-24. The Urban Tele-density increased from 131.01% at the end of Nov-24 to 131.50% at the end of Dec-24 however Rural Tele-density decreased from 58.31% to 58.22% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of December-24 were 55.75% and 44.25% respectively.

Overall Tele-density (LSA Wise) – As on 31st December, 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 December-24. Delhi service area has maximum tele-density of 274.38% and the Bihar service area has minimum tele-density of 56.44% at the end of December-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://nhm.gov.in/New_Updates_2018/Report_Population_Projection_2019.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 December, 2024

Circle Category	Net additions in the month of December, 2024		Telephone Subscriber base as on 31 st December, 2024	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	238407	661288	15079619	383576577
Circle B	337127	1390794	11167699	466306783
Circle C	131893	642123	3399144	188712198
Metro	59450	-684483	9621559	112061075
All India	766877	2009722	39268021	1150656633

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

Circle Category	Monthly growth rate (%) (November-24 to December-24)		Yearly growth rate (%) (December-23 to December-24)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.61%	0.17%	21.03%	-0.97%
Circle B	3.11%	0.30%	36.67%	-0.87%
Circle C	4.04%	0.34%	40.39%	1.16%
Metro	0.62%	-0.61%	9.48%	-1.90%
All India	1.99%	0.17%	23.32%	-0.68%

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

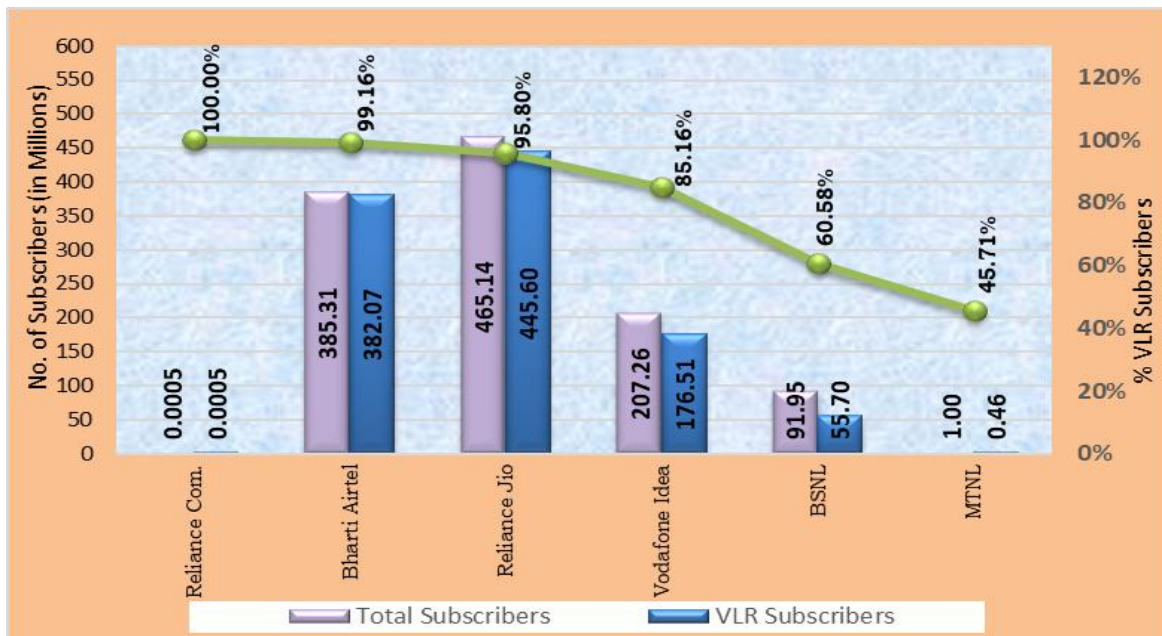
- As can be seen in the above tables, in wireless segment, during the month of December, 2024, on monthly basis except Metro all other circles have registered growth rate in their subscriber base. On yearly basis also except Circe 'C', all other circles have registered decline rate in their subscriber base.
- In Wireline segment, during the month of December, 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 1150.66 million wireless subscribers, 1060.34 million wireless subscribers were active on the date of peak VLR in the month of December-24. The proportion of active wireless subscribers was approximately 92.15% 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 December-24 is available at **Annexure-III** and the methodology used for reporting VLR subscribers is available at **Annexure-IV**.

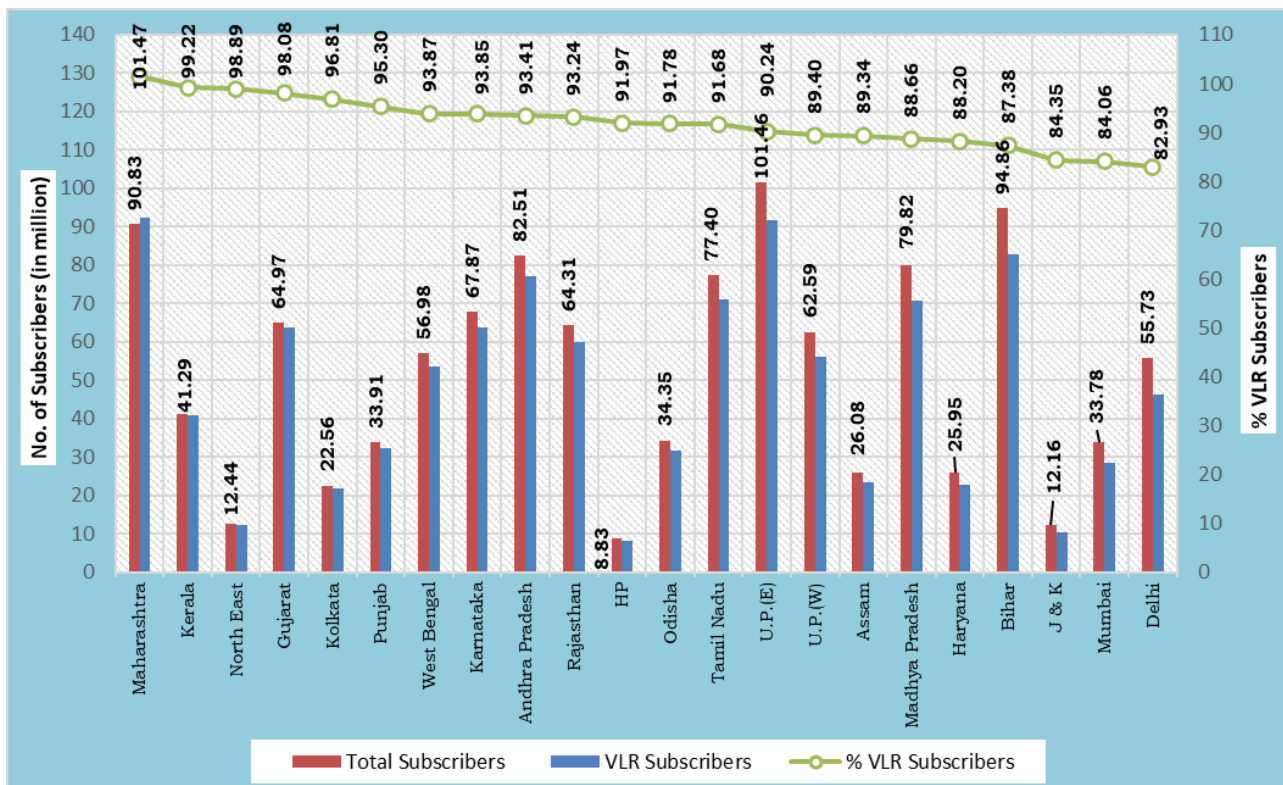
Access Service Provider-wise Percentage of VLR Subscribers in the month of December, 2024



- 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 December-24 and MTNL has the minimum proportion of VLR 45.71% of its HLR during the same period.

Service Area wise percentage of VLR Subscribers in the month of December, 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 December-24, a total of 13.85 million requests were received for MNP. Out of total 13.85 million, new requests received from Zone-I & Zone-II were 7.78 million and 6.07 million respectively. The cumulative MNP requests increased from 1065.35 million at the end of November-24 to 1079.19 million at the end of December-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 106.35 million) followed by Maharashtra (about 87.99 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 84.71 million) followed by Karnataka (about 71.94 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)	
	Nov-24	Dec-24		Nov-24	Dec-24
Delhi	50.82	51.42	Andhra Pradesh	70.19	70.86
Gujarat	72.45	73.42	Assam	7.78	7.89
Haryana	33.59	33.99	Bihar	60.86	61.90
Himachal Pradesh	4.50	4.55	Karnataka	71.37	71.94
Jammu & Kashmir	2.97	3.03	Kerala	25.40	25.65
Maharashtra	86.94	87.99	Kolkata	19.43	19.63
Mumbai	35.15	35.43	Madhya Pradesh	83.42	84.71
Punjab	35.01	35.34	North East	2.45	2.48
Rajasthan	71.80	72.50	Odisha	18.66	18.87
U.P.(East)	104.35	106.35	Tamil Nadu	66.92	67.56
U.P.(West)	78.59	79.94	West Bengal	62.68	63.74
Total	576.18	583.96	Total	489.16	495.23
Total (Zone-I + Zone-II)				1,065.35	1,079.19
Net Addition (December, 2024)			13.85 million		

Contact details in case of any clarification: -

Shri Vijay Kumar, Advisor (F&EA),
Telecom Regulatory Authority of India
World Trade Centre, Tower-F,
Nauroji Nagar, New Delhi – 110029
Ph: 011-20907773
E-mail: advfeal@traai.gov.in

(Atul Kumar Chaudhary)
Secretary, TRAI

Wireline Subscriber Base

Annexure-I

Service Area	BSNL		MTNL		Bharti Airtel		Reliance Com.		Tata Tele.		Quadrant		Vodafone Idea		Reliance Jio		STPL		APSFL		Total		Net Addition
	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	
Andhra Pradesh	503480	499295			774907	788087	16956	17045	223740	222791			85645	85220	1867492	1929689			634544	632438	4106764	4174565	67801
Assam	71044	70238			49027	50062	0	0	0	0			2610	2580	281140	293562					403821	416442	12621
Bihar	143910	141654			283137	317765	9	9	11863	11990			5641	5617	847362	893233					1291922	1370268	78346
Delhi	0	0	975072	973617	2280061	2291584	15147	14278	235664	235637			81261	80961	1230702	1263712					4817907	4859789	41882
Gujarat	279214	277572			297374	300273	2614	2525	180564	179152			124354	111684	1041848	1083752					1925968	1954958	28990
Haryana	221245	221829			186169	188118	0	0	39922	39697			450	450	263573	280294					711359	730388	19029
Himachal Pradesh	88416	87985			13511	13769	0	0	1351	1349			90	90	93788	97967					197156	201160	4004
J & K	59749	58729			125833	127591	0	0	0	0			30	30	287098	298641					472710	484991	12281
Karnataka	509275	507766			1277892	1283344	16143	15812	465730	476450			162174	160204	1280453	1319662					3711667	3763238	51571
Kerala	1071481	1071028			117867	118799	2686	2596	17535	17498			7140	6690	420499	435117					1637208	1651728	14520
Kolkata	180509	179768			211849	212494	3636	3214	64662	64873			15304	14334	654208	672779					1130168	1147462	17294
Madhya Pradesh	239765	236138			577993	583965	5	5	43110	41905			89695	101965	1130081	1172993					2080649	2136971	56322
Maharashtra	483548	476456			578087	585038	7373	7308	222829	220864			20336	19883	640703	690996					1952876	2000545	47669
Mumbai	3800	3800	1079088	1066489	641322	643418	34339	33865	631549	635601			184386	180846	1039550	1050289					3614034	3614308	274
North East	57712	57264			0	0	0	0	0	0			510	510	242848	250985					301070	308759	7689
Odisha	128682	127289			67678	69806	4	4	16457	15980			3490	3520	384261	400925					600572	617524	16952
Punjab	515232	515346			356819	361223	1813	1782	15232	15236	355915	353139	1560	1560	626853	658860	63523	65573			1936947	1972719	35772
Rajasthan	238542	235827			312047	316043	3085	2994	24431	24485			13665	13465	653210	688334					1244980	1281148	36168
Tamil Nadu	860683	857194			974009	984039	13209	12989	134563	134863			32915	32295	1128558	1164933					3143937	3186313	42376
U.P.(E)	99313	99377			281436	314485	27	27	12688	12763			16560	16530	869337	924862					1279361	1368044	88683
U.P.(W)	154582	153541			197369	215772	8	8	6841	6878			4141	4141	908764	951870					1271705	1332210	60505
West Bengal	178268	177048			80246	81903	26	24	2573	2570			150	150	407100	432796					668363	694491	26128
Total	6088450	6055144	2054160	2040106	9684633	9847578	117080	114485	2351304	2360582	355915	353139	852107	842725	16299428	16956251	63523	65573	634544	632438	38501144	39268021	766877
Net Addition		-33306		-14054		162945		-2595		9278		-2776		-9382		656823		2050		-2106		766877	
Rural Subscribers	1,978,945	1,979,965	29	29	2,577	2,374	300	300	6,338	6,180	61,800	62,478	0	0	430,902	456,325	0	0	469,563	468,004	2950454	2975655	25201

Wireless Subscriber Base

Annexure-II

Circle	Bharti Airtel		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	Nov-24	Dec-24	
Andhra Pradesh	33,686,681	33,765,442	0	0	10,138,599	10,031,734	6,799,880	6,825,411					31,722,937	31,886,092	82348097	82508679	160582
Assam	11,886,126	11,914,048	0	0	1,436,362	1,438,865	2,990,873	2,992,345					9,714,678	9,732,446	26028039	26077704	49665
Bihar	40,510,920	40,498,909	0	1	7,454,845	7,485,493	5,977,315	5,966,507					40,594,269	40,913,517	94537349	94864427	327078
Delhi	18,362,907	18,434,020	1	20	16,808,326	16,743,346					1,684,377	789,707	19,633,269	19,758,105	56488880	55725198	-763682
Gujarat	12,139,442	12,206,886	16	0	19,815,105	19,683,954	3,326,904	3,318,309					29,576,662	29,756,241	64858129	64965390	107261
Haryana	7,036,790	7,061,216	0	0	6,454,877	6,402,674	4,131,662	4,159,824					8,307,262	8,323,953	25930591	25947667	17076
Himachal Pradesh	3,545,058	3,548,882	0	0	380,490	377,601	1,658,686	1,666,376					3,220,511	3,232,447	8804745	8825306	20561
J & K	6,100,700	6,108,668	0	0	261,339	262,621	874,481	872,157					4,897,080	4,912,848	12133600	12156294	22694
Karnataka	32,123,159	32,177,739	214	339	6,494,622	6,599,552	4,575,413	4,571,164					24,227,858	24,526,175	67421266	67874969	453703
Kerala	8,792,441	8,816,703	0	0	13,109,867	13,026,138	8,727,432	8,730,042					10,683,501	10,715,701	41313241	41288584	-24657
Kolkata	5,448,616	5,445,207	0	0	5,009,300	4,955,745	1,459,804	1,468,367					10,629,555	10,690,464	22547275	22559783	12508
Madhya Pradesh	16,305,289	16,404,356	0	0	14,225,490	13,967,009	5,141,934	5,134,063					43,578,330	44,314,875	79251043	79820303	569260
Maharashtra	22,291,217	22,368,784	0	0	20,957,137	20,708,127	5,597,750	5,470,925					41,964,863	42,278,780	90810967	90826616	15649
Mumbai	10,017,055	10,066,642	11	31	10,722,373	10,680,874					217,541	215,223	12,752,423	12,813,324	33709403	33776094	66691
North East	6,255,114	6,265,788	0	0	666,730	659,058	1,290,175	1,288,497					4,166,376	4,229,026	12378395	12442369	63974
Odisha	11,719,282	11,737,705	0	0	1,382,612	1,378,440	5,563,824	5,573,321					15,522,229	15,656,632	34187947	34346098	158151
Punjab	12,322,078	12,356,021	5	9	6,161,777	6,103,807	4,140,544	4,097,230					11,269,097	11,351,048	33893501	33908115	14614
Rajasthan	22,981,843	23,075,588	89	81	9,446,954	9,306,909	5,603,503	5,612,098					26,145,912	26,319,086	64178301	64313762	135461
Tamil Nadu	29,787,706	29,881,079	0	0	15,040,723	14,935,646	7,813,641	7,725,571	212,011	217,484			24,622,749	24,641,143	77476830	77400923	-75907
U.P.(E)	36,139,722	36,232,989	0	0	16,161,262	16,025,137	8,362,471	8,347,061					40,347,070	40,858,553	101010525	101463740	453215
U.P.(W)	18,666,890	18,725,821	0	0	14,694,545	14,547,059	5,321,946	5,220,879					23,784,405	24,093,676	62467786	62587435	119649
West Bengal	18,154,925	18,214,477	4	11	12,151,771	11,939,342	2,693,571	2,689,590					23,870,730	24,133,757	56871001	56977177	106176
Total	384273961	385306970	340	492	208975106	207259131	92051809	91729737	212011	217484	1901918	1004930	461231766	465137889	1148646911	1150656633	2009722
Net Addition		1033009		152		-1715975		-322072		5473		-896988		3906123	0	2009722	
Rural Subscribers	189,477,736	188,620,854	0	0	100593734	99172719	29,382,407	29,300,726	0	0	35,204	16,505	204835425	206469142	524324506	523579946	-744560

Proportion of VLR on the date of Peak VLR in the month of Dec-24 (%)							Annexure-III
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	99.14	71.71	90.38		-	92.93	93.41
Assam	98.56	27.68	91.96		-	96.62	89.34
Bihar	88.32	39.49	83.99		-	94.05	87.38
Delhi	96.48		54.93	42.40	5.00	95.62	82.93
Gujarat	112.89	56.29	91.83		0.00	100.80	98.08
Haryana	100.95	35.07	91.96		-	101.06	88.20
Himachal Pradesh	97.94	53.95	104.68		-	103.54	91.97
J & K	86.88	64.94	83.53		-	84.70	84.35
Karnataka	99.23	70.43	74.98		100.00	96.23	93.85
Kerala	104.19	107.29	94.19		-	94.67	99.22
Kolkata	98.02	92.15	87.45		-	101.17	96.81
Madhya Pradesh	99.54	44.51	83.93		-	91.24	88.66
Maharashtra	108.35	81.80	92.38		-	104.84	101.47
Mumbai	93.14		71.31	57.85	100.00	87.99	84.06
North East	105.02	54.82	95.76		-	103.73	98.89
Odisha	104.49	48.37	92.02		-	97.67	91.78
Punjab	105.75	56.82	90.47		100.00	100.41	95.30
Rajasthan	101.80	45.35	89.59		100.00	97.23	93.24
Tamil Nadu	99.19	77.45	88.12		-	89.33	91.68
U.P. (E)	97.69	40.01	88.86		-	94.44	90.24
U.P. (W)	101.14	46.67	85.74		-	91.74	89.40
West Bengal	97.91	71.66	87.14		100.00	96.62	93.87
Total	99.16	60.58	85.16	45.71	100.00	95.80	92.15

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.