

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 22nd February, 2024

(www.trai.gov.in)

Highlights of Telecom Subscription Data as on 31st December, 2023

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Broadband Subscribers (Million)	866.19	38.35	904.54
Urban Telephone Subscribers (Million)	633.44	29.12	662.56
Net Addition in December, 2023 (Million)	2.72	0.26	2.98
Monthly Growth Rate	0.43%	0.89%	0.45%
Rural Telephone Subscribers (Million)	525.05	2.72	527.77
Net Addition in December, 2023 (Million)	1.60	0.02	1.62
Monthly Growth Rate	0.31%	0.69%	0.31%
Total Telephone Subscribers (Million)	1158.49	31.84	1190.33
Net Addition in December, 2023 (Million)	4.32	0.28	4.60
Monthly Growth Rate	0.37%	0.87%	0.39%
Overall Tele-density*(%)	82.95%	2.28%	85.23%
Urban Tele-density*(%)	127.88%	5.88%	133.76%
Rural Tele-density*(%)	58.26%	0.30%	58.56%
Share of Urban Subscribers	54.68%	91.46%	55.66%
Share of Rural Subscribers	45.32%	8.54%	44.34%

- ❖ In the month of December, 2023, 12.44 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 914.75 million at the end of November-23 to 927.19 million at the end of December-23, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in December, 2023 was 1047.88 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 1,126 operators in December, 2023, same as in November 2023, the total Broadband Subscribers increased from 896.61 million at the end of November-23 to 904.54 million at the end of December-23 with a monthly growth rate of 0.88%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

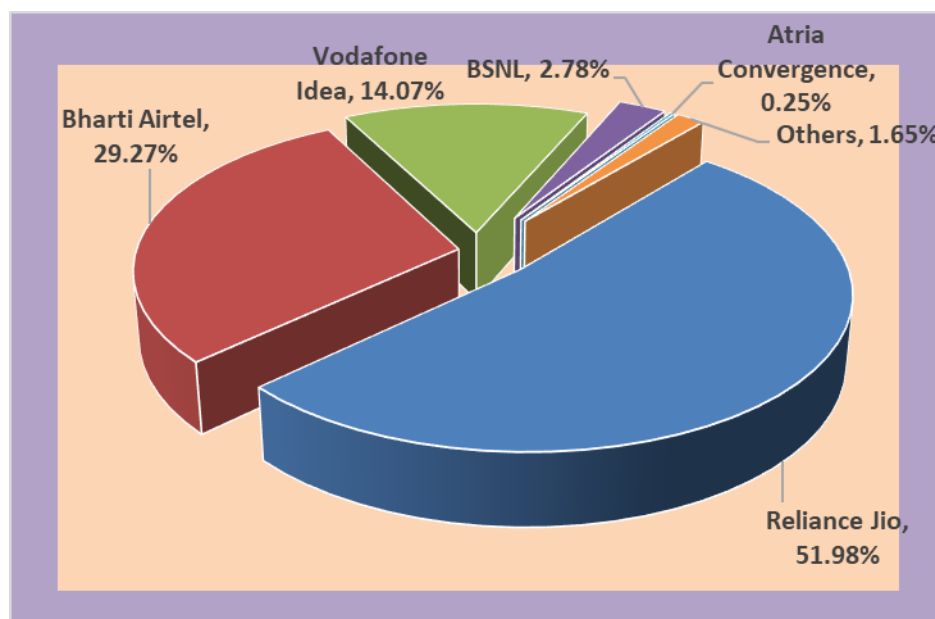
Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of December, 2023

Segment	Broadband subscribers (in million)		Monthly growth rate in the month of December, 2023
	As on 30 th November 2023	As on 31 st December 2023	
Wired subscribers	37.79	38.35	1.46%
Mobile devices users (Phones and dongles)	857.98	865.28	0.85%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to- Point Radio & VSAT)	0.83	0.91	8.91%
Total	896.61	904.54	0.88%

- Top five service providers constituted 98.35% market share of the total broadband subscribers at the end of December-23. These service providers were Reliance Jio Infocomm Ltd 470.19 million, Bharti Airtel 264.76 million, Vodafone Idea 127.29 million, BSNL 25.12 million and Atria Convergence 2.23 million.

- 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, 2023**

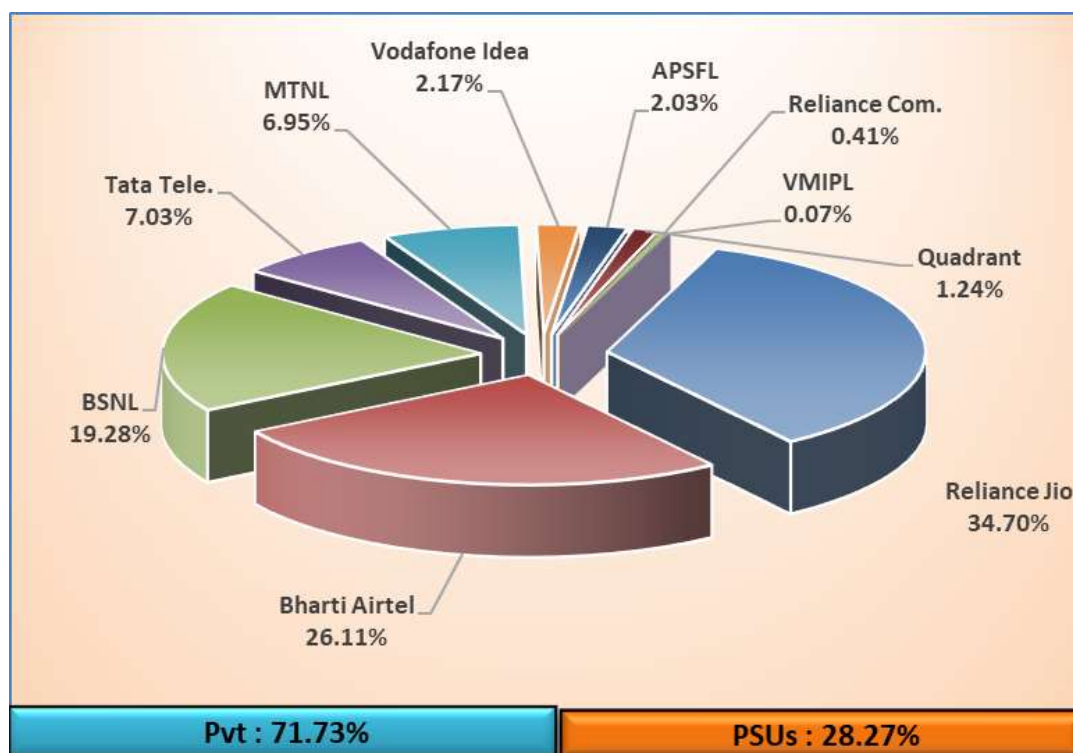


- As on 31st December, 2023, the top five Wired Broadband Service providers were Reliance Jio Infocomm Ltd 10.38 million, Bharti Airtel 7.39 million, BSNL 3.83 million, Atria Convergence Technologies 2.23 million and Oneott Entertainment Limited 1.21 million.
- As on 31st December, 2023, the top five Wireless Broadband Service providers were Reliance Jio Infocom Ltd 459.81 million, Bharti Airtel 257.37 million, Vodafone Idea 127.28 million, BSNL 21.28 million and Intech Online Pvt. Ltd. 0.24 million.

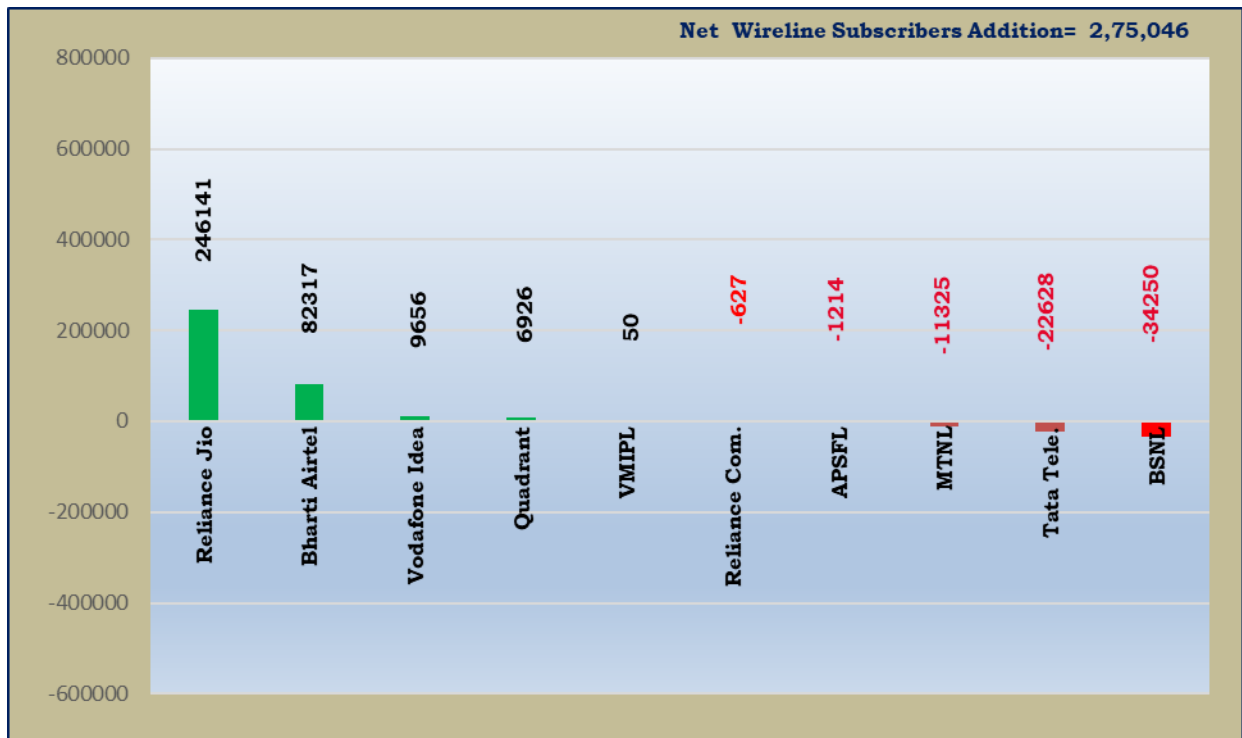
II. Wireline Subscribers

- Wireline subscribers increased from 31.57 million at the end of November-23 to 31.84 million at the end of December-23. Net increase in the wireline subscriber base was 0.28 million with a monthly rate of growth 0.87%. The share of urban and rural subscribers in total wireline subscribers were 91.46% and 8.54% respectively at the end of December, 2023.
- The Overall Wireline Tele-density in India increased from 2.26% at the end of November-23 to 2.28% at the end of December-23. Urban and Rural Wireline Tele-density were 5.88% and 0.30% respectively during the same period.
- BSNL, MTNL and APSFL, the three PSUs access service providers, held 28.27% of the wireline market share as on 31st December, 2023. Detailed statistics of wireline subscriber base are available at **Annexure-I**.

Access Service Provider-wise Market Share of Wireline Subscribers as on 31st December, 2023



Access Service Provider-wise Net Addition/Decline in Wireline Subscribers during the month of December, 2023



III. Wireless subscriber

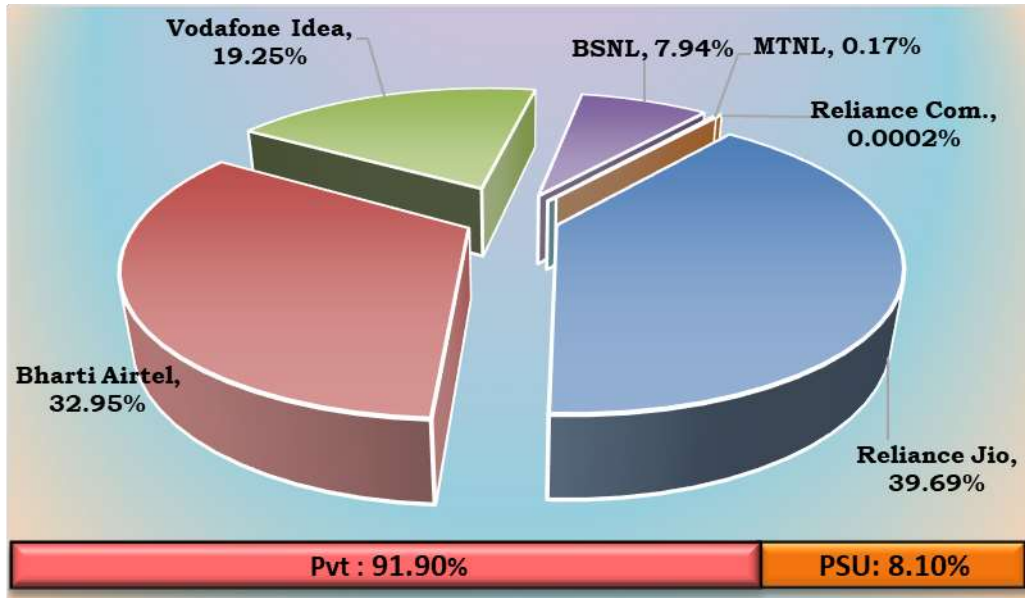
• Total wireless subscribers increased from 1,154.17 million at the end of November-23, to 1,158.49 million at the end of December-23, thereby registering a monthly growth rate of 0.37%. Wireless subscription in urban areas increased from 630.72 million at the end of Nov-23 to 633.44 million at the end of Dec-23 and wireless subscription in rural areas also increased from 523.45 million to 525.05 million during the same period. Monthly growth rate of urban and rural wireless subscription was 0.43% and 0.31% respectively.



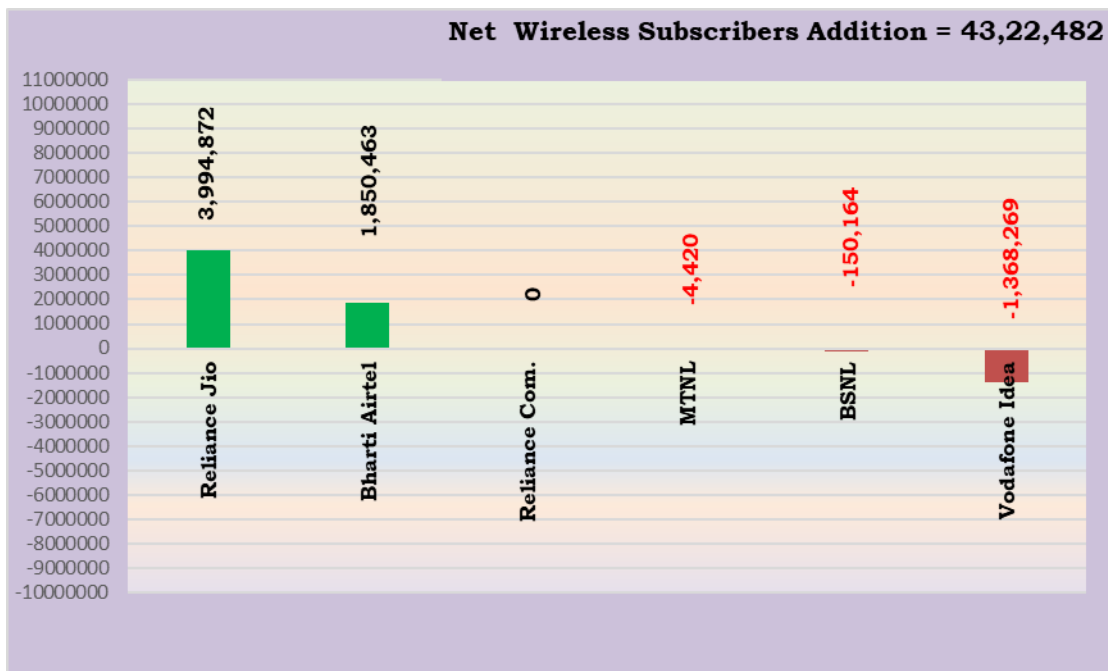
• The Wireless Tele-density in India increased from 82.71% at the end of November-23 to 82.95% at the end of December-23. The Urban Wireless Tele-density increased from 127.53% at the end of November-23 to 127.88% at the end of December-23 and Rural Tele-density also increased from 58.10% to 58.26% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.68% and 45.32% respectively at the end of Dec-23. Detailed statistics of wireless subscriber base is available at **Annexure-II**.

- As on 31st December, 2023, the private access service providers held 91.90% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 8.10%.
- 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, 2023

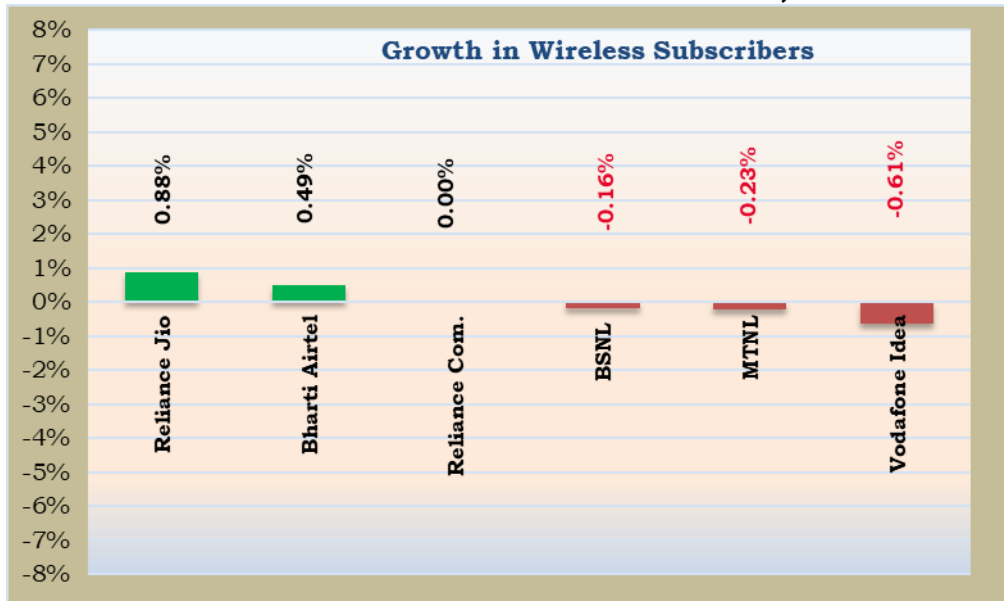


Net Addition in Wireless Subscribers of Access Service Providers in the month of December, 2023



Growth in Wireless Subscribers

Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the month of December, 2023



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

Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of December, 2023



- Except Maharashtra, J&K and Kolkata, all other service areas have showed growth in their wireless subscribers during the month of December-23.

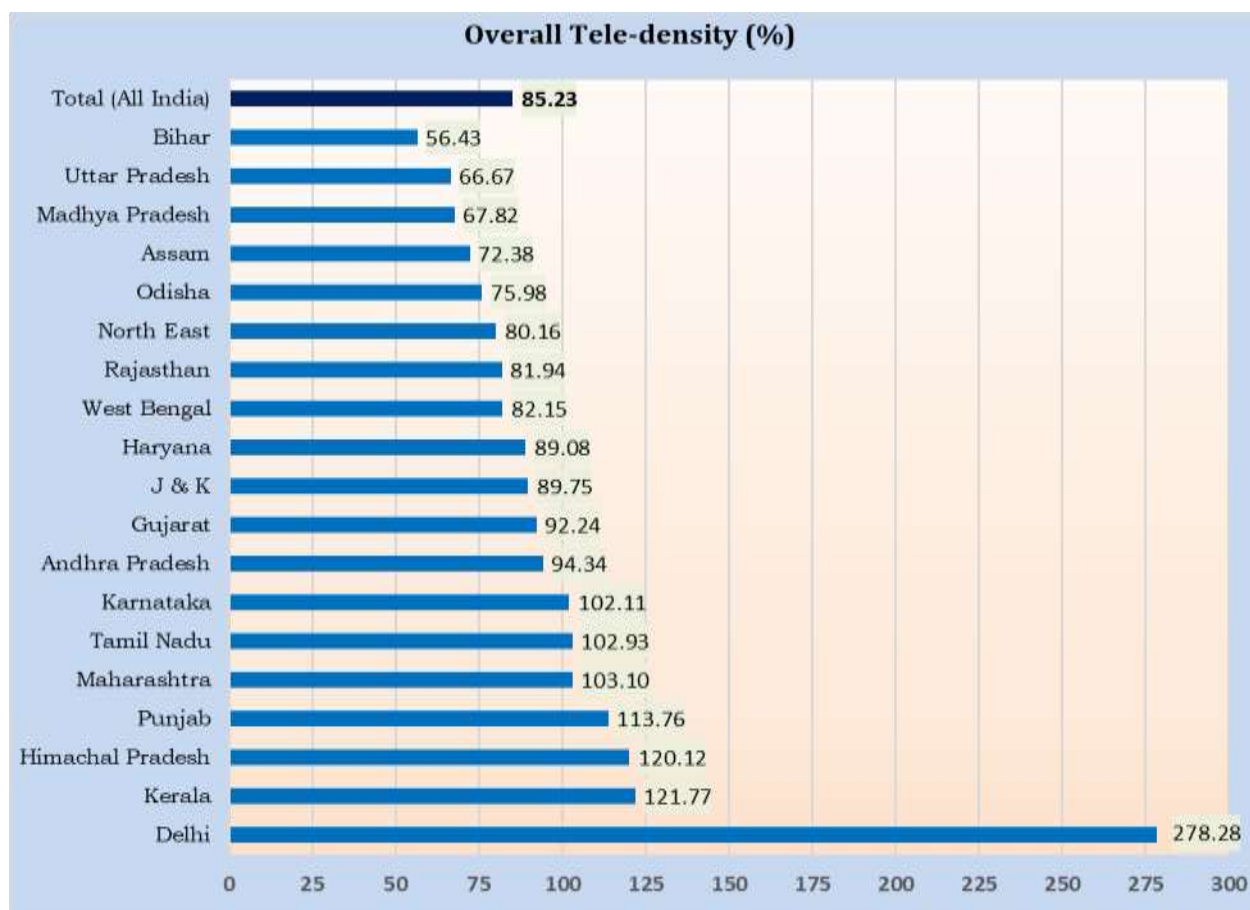
IV. Total Telephone Subscribers

- The number of telephone subscribers in India increased from 1,185.73 million at the end of November-23 to 1,190.33 million at the end of December-23, thereby showing a monthly growth rate of 0.39%. Urban telephone subscription increased from 659.58 million at the end of November-23 to 662.56 million at the end of December-23 and the rural subscription also increased from 526.15 million to 527.77 million during the same period. The monthly growth rates of urban and rural telephone subscription were 0.45% and 0.31% respectively during the month of December-23.



- The overall Tele-density in India increased from 84.97% at the end of November-23 to 85.23% at the end of December-23. The Urban Tele-density increased from 133.36% at the end of November-23 to 133.76% at the end of December-23 and Rural Tele-density also increased from 58.40% to 58.56% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of December-23 were 55.66% and 44.34% respectively.

Overall Tele-density (LSA Wise) – As on 31st December, 2023



- 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-23. Delhi service area has maximum tele-density of 278.28% and the Bihar service area has minimum tele-density of 56.43% at the end of December-23.

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 December, 2023

Circle Category	Net additions in the month of December, 2023		Telephone Subscriber base as on 31 st December, 2023	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	1,24,348	8,90,680	1,24,59,886	38,73,18,485
Circle B	1,04,192	24,00,745	81,71,408	47,03,96,842
Circle C	29,327	8,13,546	24,21,263	18,65,46,408
Metro	17,179	2,17,511	87,88,773	11,42,26,771
All India	2,75,046	43,22,482	3,18,41,330	1,15,84,88,506

Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of December, 2023

Circle Category	Monthly growth rate (%) (November-23 to December-23)		Yearly growth rate (%) (December-22 to December-23)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.01%	0.23%	18.50%	0.69%
Circle B	1.29%	0.51%	19.23%	1.44%
Circle C	1.23%	0.44%	23.36%	2.14%
Metro	0.20%	0.19%	8.19%	2.08%
All India	0.87%	0.37%	15.98%	1.36%

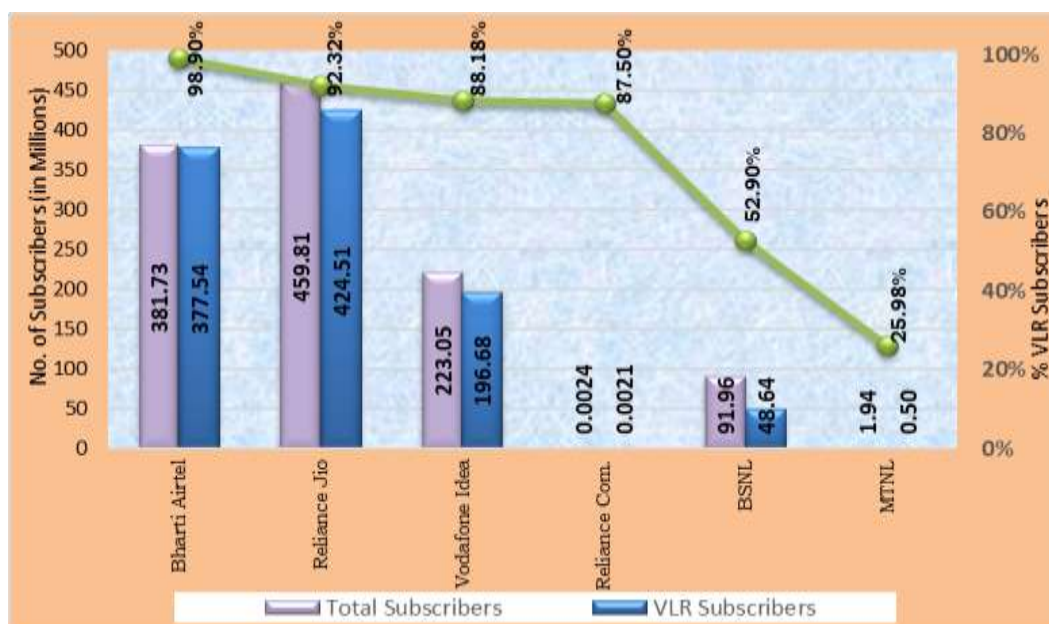
Note: Circle Category-Metro includes Delhi, Mumbai and Kolkata. Data for Chennai has been included in Circle Category-A, as part of TamilNadu.

- As can be seen in the above tables, in wireless segment, during the month of December, 2023, both on monthly and yearly basis all circles have registered growth rate in their subscriber.
- During the month of December, 2023, in Wireline segment, both on monthly and yearly basis, all circles have registered growth rate in their subscriber base.

VI. Active Wireless Subscribers (VLR Data)

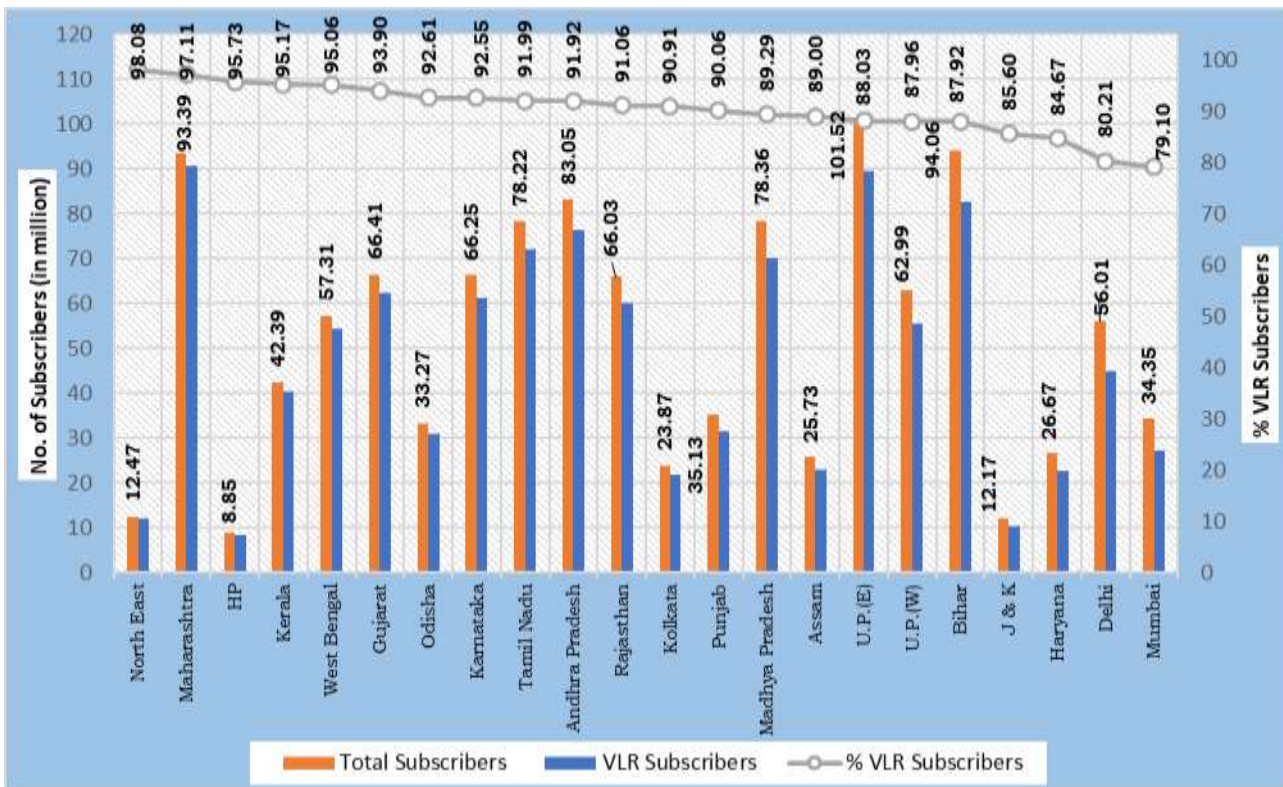
- Out of the total 1,158.49 million wireless subscribers, 1047.88 million wireless subscribers were active on the date of peak VLR in the month of December-23. The proportion of active wireless subscribers was approximately 90.45% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of December-23 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, 2023



- Bharti Airtel has the maximum proportion 98.90% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of December-23 and MTNL has the minimum proportion of VLR 25.98% of its HLR during the same period.

Service Area wise percentage of VLR Subscribers in the month of December, 2023



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-23, a total of 12.44 million requests were received for MNP. Out of total 12.44 million, new requests received from Zone-I & Zone-II were 7.03 million and 5.41 million respectively. The cumulative MNP requests increased from 914.75 million at the end of November-23 to 927.19 million at the end of December-23, 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 85.43 million) followed by Maharashtra (about 76.25 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 71.32 million) followed by Karnataka (about 65.21 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-23	Dec-23		Nov-23	Dec-23
Delhi	43.91	44.52	Andhra Pradesh	62.82	63.43
Gujarat	62.39	63.25	Assam	6.54	6.64
Haryana	29.14	29.50	Bihar	49.77	50.65
Himachal Pradesh	3.97	4.01	Karnataka	64.62	65.21
Jammu & Kashmir	2.22	2.27	Kerala	22.57	22.80
Maharashtra	75.25	76.25	Kolkata	17.24	17.41
Mumbai	32.06	32.32	Madhya Pradesh	70.24	71.32
Punjab	31.15	31.45	North East	2.11	2.13
Rajasthan	63.40	64.13	Odisha	16.36	16.52
U.P.(East)	83.78	85.43	Tamil Nadu	59.62	60.25
U.P.(West)	64.35	65.50	West Bengal	51.26	52.19
Total	491.61	498.64	Total	423.15	428.55
Total (Zone-I + Zone-II)				914.75	927.19
Net Addition (December, 2023)		12.44 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
	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	
Andhra Pradesh	526385	518960			593727	601545	19083	18583	237541	234829			64745	70125	1277274	1312616			648871	647657	3367626	3404315	36689
Assam	101,497	101,612			28389	29412	0	0	0	0			2610	2610	177490	181527					309986	315161	5175
Bihar	163,128	165,076			136882	141956	9	9	11163	11142			2380	2350	512362	524266					825924	844799	18875
Delhi			1000383	997806	2082769	2085938	18483	18389	209656	209288			78360	79301	937398	951578					4327049	4342300	15251
Gujarat	289467	290294			251644	256715	2892	2863	165350	165671			65866	67666	644913	668992					1420132	1452201	32069
Haryana	190533	188136			147562	150563	0	0	43533	43418			420	420	129239	132000					511287	514537	3250
Himachal Pradesh	88378	87875			7731	7999	0	0	1461	1494			90	90	57870	58715					155530	156173	643
J & K	76678	74196			104792	107478	0	0	0	0			30	30	202246	204993					383746	386697	2951
Karnataka	519877	524521			1179008	1189445	17158	17436	410994	405944			141340	138230	939808	954149					3208185	3229725	21540
Kerala	986195	979037			100764	102222	3286	3283	19742	19805			6850	6880	291022	296641					1407859	1407868	9
Kolkata	182138	182395			203666	201491	4602	4636	65118	63439			15020	14890	494399	504778					964943	971629	6686
Madhya Pradesh	245544	241956			516447	525515	5	5	57505	57676			46210	50210	707180	726128					1572891	1601490	28599
Maharashtra	551979	550332			457598	464548	8159	8100	223878	222777			20631	20411	277321	289121					1539566	1555289	15723
Mumbai			1224472	1215724	588763	591988	37681	37695	603464	592082			163276	164151	861946	873204					3479602	3474844	4758
North East	71010	71699			0	0	0	0	0	0			510	510	173706	177512					245226	249721	4495
Odisha	161068	152010			41812	43537	4	4	12144	12464			3380	3340	253116	257357					471524	468712	-2812
Punjab	373391	374795			259880	263997	1877	1878	16528	16649	388044	394970	1800	1800	337853	346933	21429	21479			1400802	1422501	21699
Rajasthan	265620	262526			249103	256441	3493	3473	24492	24452			12545	12515	387512	396894					942765	956301	13536
Tamil Nadu	907098	900733			893265	898548	15772	15525	137944	136757			33923	34113	812027	832680					2800029	2818356	18327
U.P.(E)	120217	120634			205137	207715	18	34	10600	10564			16700	16700	512488	524966					865160	880613	15453
U.P.(W)	177133	176086			134294	136343	8	8	7018	7018			3631	3631	573811	587880					895895	910966	15071
West Bengal	176949	177162			48173	50327	67	49	2589	2623			150	150	242629	246821					470557	477132	6575
Total	6174285	6140035	2224855	2213530	8231406	8313723	132597	131970	2260720	2238092	388044	394970	680467	690123	10803610	11049751	21429	21479	648871	647657	31566284	31841330	275046
Net Addition		-34250		-11325		82317		-627		-22628		6926		9656		246141		50		-1214		275046	
Rural Subscribers	1972177	1983034	34	34	2383	2446	331	360	8745	8566	17065	16844	0	0	220134	229170	0	0	480165	479266	2701034	2719720	18686

Wireless Subscriber Base

Annexure-II

Circle	Bharti Airtel (including Tata)		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	Nov-23	Dec-23	
	Andhra Pradesh	33362834	33456471			10952353	10889776	6525300	6526093					31980716	32181993	82821203	
Assam	11,548,817	11,635,040			1739650	1689221	3136425	3135849					9197447	9273525	25622339	25733635	111296
Bihar	41,025,566	41,196,724			7718352	7685625	5191375	5212767					39607432	39960736	93542725	94055852	513127
Delhi	17872157	17944995	23	23	16560519	16594404					1687182	1686812	19707070	19780346	55826951	56006580	179629
Gujarat	11605707	11696221	43	43	21077128	20936910	4406518	4408539					29007074	29363638	66096470	66405351	308881
Haryana	6812086	6913441	11	11	6884301	6848050	4312759	4334735					8510805	8570228	26519962	26666465	146503
Himachal Pradesh	3558426	3565663	92	92	405602	404470	1546714	1549857					3333512	3330986	8844346	8851068	6722
J & K	5901934	5889912	0	0	302020	302053	811267	802417					5169270	5172959	12184491	12167341	-17150
Karnataka	31840225	31952810	574	574	6543662	6478767	4271752	4224679					23350160	23596740	66006373	66253570	247197
Kerala	8412596	8472706	113	113	13753816	13703637	9484282	9378546					10722479	10830851	42373286	42385853	12567
Kolkata	5685525	5696375	0	0	5475184	5421655	2135168	2026790					10673453	10724998	23969330	23869818	-99512
Madhya Pradesh	15804052	15898273	0	0	15954356	15839576	4866660	4808578					41341599	41814615	77966667	78361042	394375
Maharashtra	21434762	21533174	0	0	23088405	22913859	5932278	5857052					43011738	43085341	93467183	93389426	-77757
Mumbai	9998440	9994591	877	877	11259219	11254136					255964	251914	12698479	12848855	34212979	34350373	137394
North East	6144465	6217335	0	0	831926	811436	1,247,564	1,252,368					4164415	4191746	12388370	12472885	84515
Odisha	11460253	11462775	29	29	1526680	1501230	5,452,631	5,450,152					14710998	14851441	33150591	33265627	115036
Punjab	12487975	12532709	106	106	6597101	6545598	4,018,254	4,118,815					11886480	11935545	34989916	35132773	142857
Rajasthan	22968577	23079164	155	155	11132160	11008394	5,640,275	5,660,820					26012963	26285709	65754130	66034242	280112
Tamil Nadu	28959220	29098516	238	238	16092353	15960200	7,531,699	7,506,630	175,984	176,911			25277082	25473310	78036576	78215805	179229
U.P.(E)	36788686	37050222	0	0	17445631	17377795	8,096,363	8,244,426					38234506	38846885	100565186	101519328	954142
U.P.(W)	18551962	18663992	8	8	15625011	15566328	4,934,370	4,940,774					23517154	23813944	62628505	62985046	356541
West Bengal	17655998	17779617	115	115	13451400	13315440	2,388,783	2,339,459					23702149	23877462	57198445	57312093	113648
Total	379880263	381730726	2384	2384	224416829	223048560	91930437	91779346	175984	176911	1943146	1938726	455816981	459811853	1154166024	1158488506	4322482
Net Addition		1850463		0		-1368269		-151091		927		-4420		3994872	0	4322482	
Rural Subscribers	185,002,870	185,157,769	0	0	108955900	108542309	28,749,844	28,718,076	0	0	35262	35254	200703370	202594407	523447246	525047815	1600569

Proportion of VLR on the date of Peak VLR in the month of Dec-23 (%)							Annexure-III
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	99.03	63.78	93.27		-	89.77	91.92
Assam	96.99	39.48	93.35		-	94.93	89.00
Bihar	91.25	34.87	92.23		-	90.58	87.92
Delhi	92.14		60.22	17.20	100.00	91.52	80.21
Gujarat	108.41	42.92	93.47		118.60	96.08	93.90
Haryana	102.71	28.14	91.75		109.09	93.06	84.67
Himachal Pradesh	98.21	52.72	109.20		43.48	111.46	95.73
J & K	91.22	67.07	85.26		-	82.10	85.60
Karnataka	98.37	61.33	85.38		98.95	92.23	92.55
Kerala	107.94	88.81	94.46		125.66	91.60	95.17
Kolkata	95.10	44.62	95.03		-	95.35	90.91
Madhya Pradesh	101.28	45.32	85.66		-	91.16	89.29
Maharashtra	109.31	62.20	92.95		-	97.97	97.11
Mumbai	87.45		68.69	84.77	87.23	81.61	79.10
North East	102.97	52.94	95.14		-	104.87	98.08
Odisha	107.40	50.45	95.41		41.38	96.39	92.61
Punjab	102.61	40.94	93.17		63.21	92.14	90.06
Rajasthan	100.73	43.34	93.00		58.71	92.04	91.06
Tamil Nadu	97.87	76.67	91.73		98.74	90.04	91.99
U.P. (E)	96.90	31.45	90.97		-	90.26	88.03
U.P. (W)	102.23	35.27	89.39		100.00	86.77	87.96
West Bengal	99.50	65.52	91.46		62.61	96.65	95.06
Total	98.90	52.90	88.18	25.98	87.50	92.32	90.45

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.