

**TELECOM REGULATORY AUTHORITY OF INDIA**New Delhi, 30th March, 2022

(www.traigov.in)

Highlights of Telecom Subscription Data as on 31st January, 2022

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	1145.24	24.21	1169.46
Net Addition in January, 2022 (Million)	-9.38	0.42	-8.95
Monthly Growth Rate	-0.81%	1.78%	-0.76%
Urban Telephone Subscribers (Million)	627.12	22.26	649.38
Net Addition in January, 2022 (Million)	-6.23	0.40	-5.82
Monthly Growth Rate	-0.98%	1.85%	-0.89%
Rural Telephone Subscribers (Million)	518.13	1.95	520.08
Net Addition in January, 2022 (Million)	-3.15	0.02	-3.13
Monthly Growth Rate	-0.60%	1.00%	-0.60%
Overall Tele-density*(%)	83.43%	1.76%	85.19%
Urban Tele-density*(%)	131.18%	4.66%	135.83%
Rural Tele-density*(%)	57.91%	0.22%	58.13%
Share of Urban Subscribers	54.76%	91.95%	55.53%
Share of Rural Subscribers	45.24%	8.05%	44.47%
Broadband Subscribers (Million)	756.78	26.65	783.43

- ❖ In the month of January, 2022, 9.53 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 661.42 million at the end of December-21 to 670.95 million at the end of January-22, since implementation of MNP.
- ❖ Number of active wireless subscribers (on the date of peak VLR#) in January, 2022 was 1006.57 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.

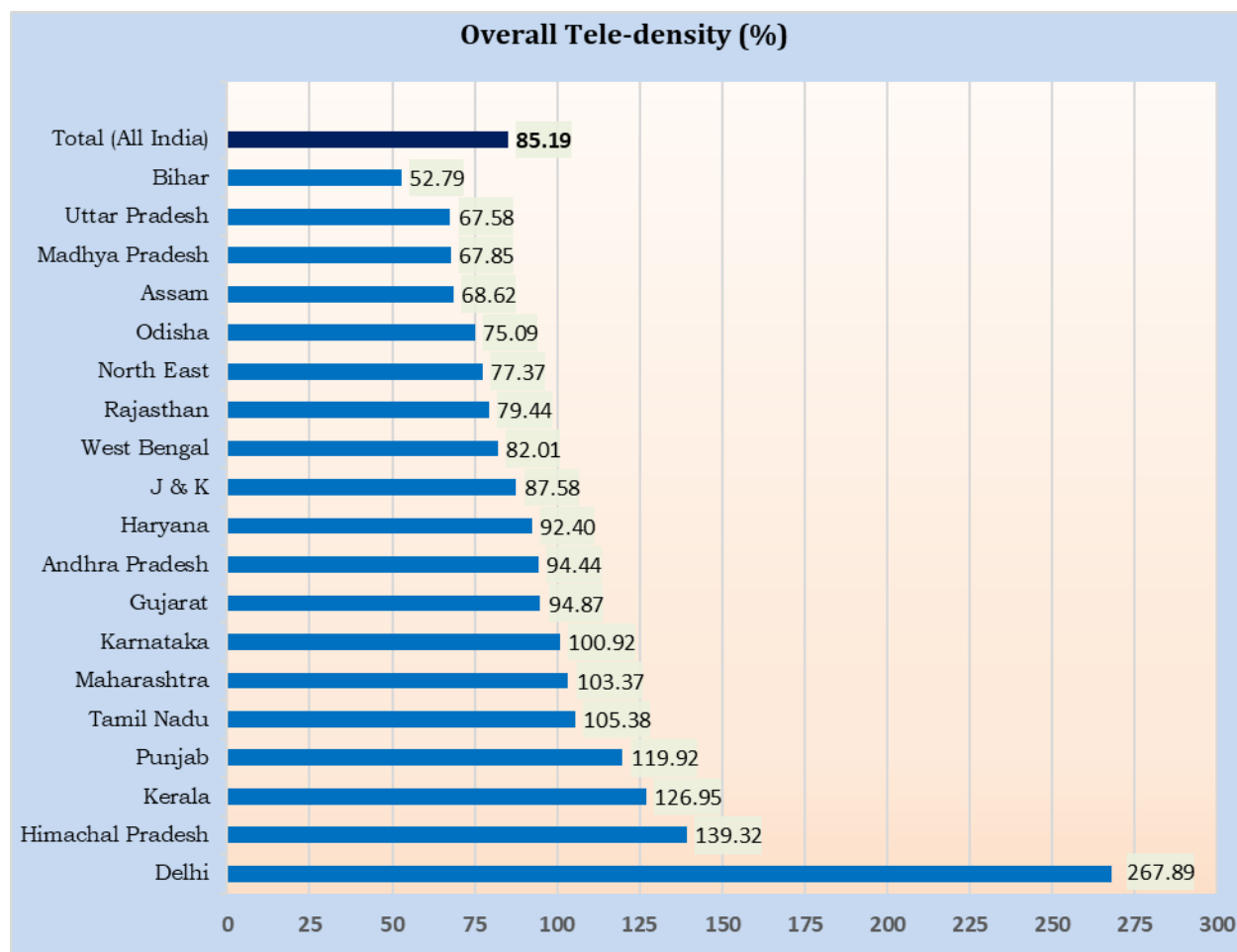
I. Total Telephone Subscribers

- The number of telephone subscribers in India decreased from 1,178.41 million at the end of December-21 to 1,169.46 million at the end of January-22, thereby showing a monthly decline rate of 0.76%. Urban telephone subscription decreased from 655.20 million at the end of December-21 to 649.38 million at the end of January-22 and the rural subscription also decreased from 523.21 million to 520.08 million during the same period. The monthly decline rates of urban and rural telephone subscription were 0.89% and 0.60% respectively during the month of January-22.



- The overall Tele-density in India decreased from 85.91% at the end of December-21 to 85.19% at the end of January-22. The Urban Tele-density decreased from 137.26% at the end of December-21 to 135.83% at the end of January-22 and Rural Tele-density also decreased from 58.50% to 58.13% during the same period. The share of urban and rural subscribers in total number of telephone subscribers at the end of January-22 was 55.53% and 44.47% respectively.

Overall Tele-density (LSA Wise) – As on 31st January, 2022



- 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 January-22. Delhi service area has maximum tele-density of 267.89% and the Bihar service area has minimum tele-density of 52.79% at the end of January-22.

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.

II. Category-wise Growth in subscriber base

Circle Category-wise Net Additions in Telephone Subscribers in the month of January 2022

Circle Category	Net additions in the month of January, 2022		Telephone Subscriber base as on 31 st January, 2022	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	1,33,939	-33,22,983	92,33,034	38,87,01,702
Circle B	1,93,114	-33,06,273	56,97,718	46,91,85,709
Circle C	42,472	-21,20,099	14,69,658	17,68,53,482
Metro	53,978	-6,26,065	78,10,487	11,05,03,306
All India	4,23,503	-93,75,420	2,42,10,897	1,14,52,44,199

Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of January 2022

Circle Category	Monthly growth rate (%) (December-21 to January-22)		Yearly growth rate (%) (January-21 to January-22)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.47%	-0.85%	20.46%	-2.29%
Circle B	3.51%	-0.70%	27.62%	0.17%
Circle C	2.98%	-1.18%	62.31%	-1.19%
Metro	0.70%	-0.56%	10.89%	-3.25%
All India	1.78%	-0.81%	20.58%	-1.22%

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, on monthly basis, all circles have registered decline rate in their subscriber base. On yearly basis, except circle 'B' all circles have registered decline rate in their subscriber base.
- In Wireline segment, both on monthly and yearly basis, Circles of all categories have registered growth rate in their subscriber base.

III. Wireless subscriber

• Total wireless subscribers decreased from 1,154.62 million at the end of December-21 to 1,145.24 million at the end of January-22, thereby registering a monthly decline rate of 0.81%. Wireless subscription in urban areas decreased from 633.34 million at the end of December-21 to 627.12 million at the end of January-22 and wireless subscription in rural areas also decreased from 521.28 million to 518.13 million during the same period. Monthly decline rates of urban and rural wireless subscription were 0.98% and 0.60% respectively.

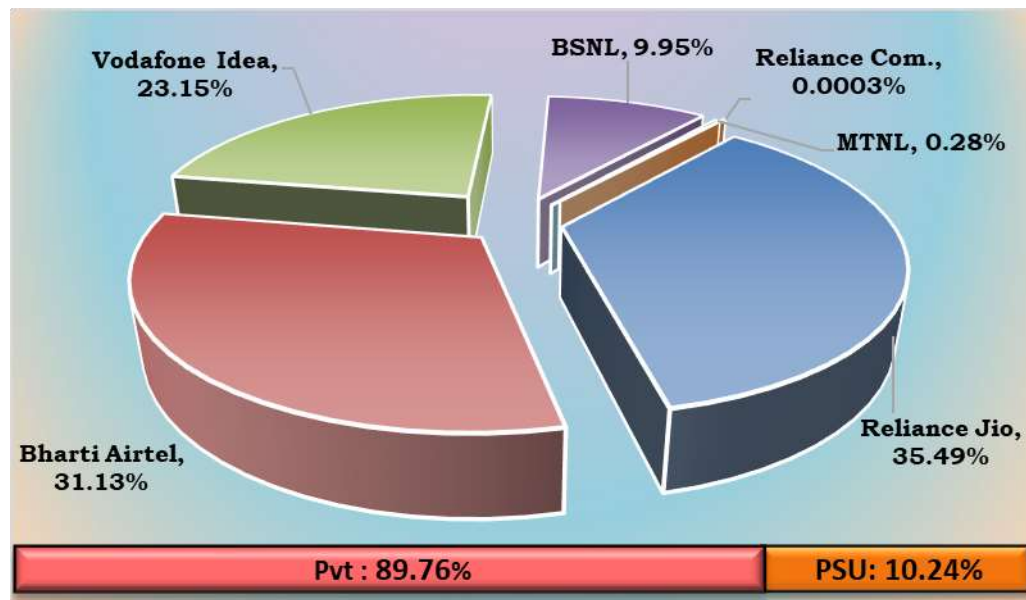


• The Wireless Tele-density in India decreased from 84.17% at the end of December-21 to 83.43% at the end of January-22. The Urban Wireless Tele-density decreased from 132.68% at the end of December-21 to 131.18% at the end of January-22 and Rural Tele-density also decreased from 58.28% to 57.91% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.76% and 45.24% respectively at the end of January-22. Detailed statistics of

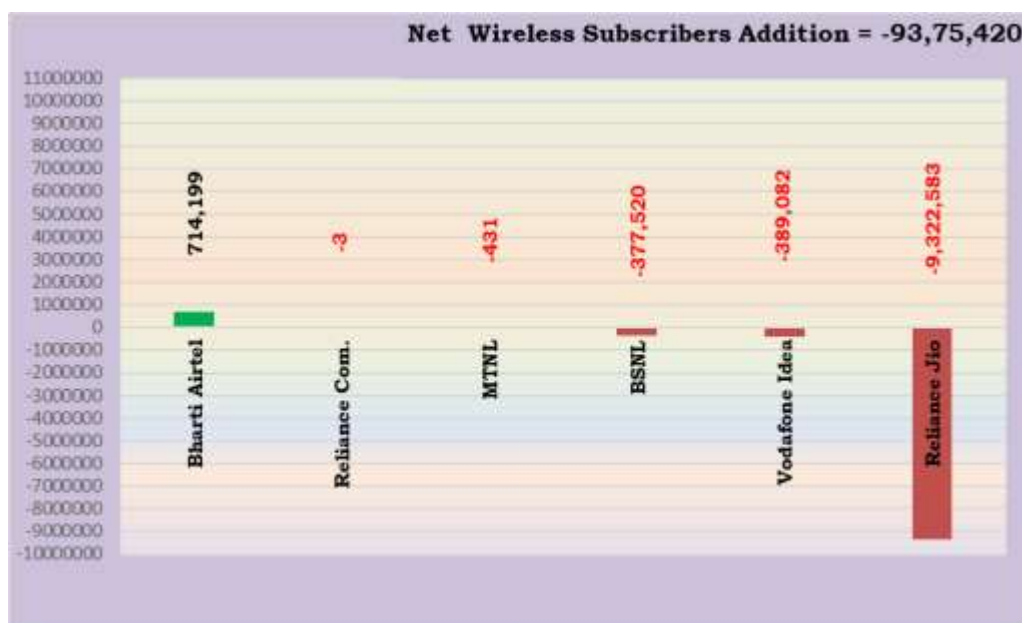
wireless subscriber base is available at **Annexure-I**.

- As on 31st January, 2022, the private access service providers held 89.76% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 10.24%.
- 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 January, 2022



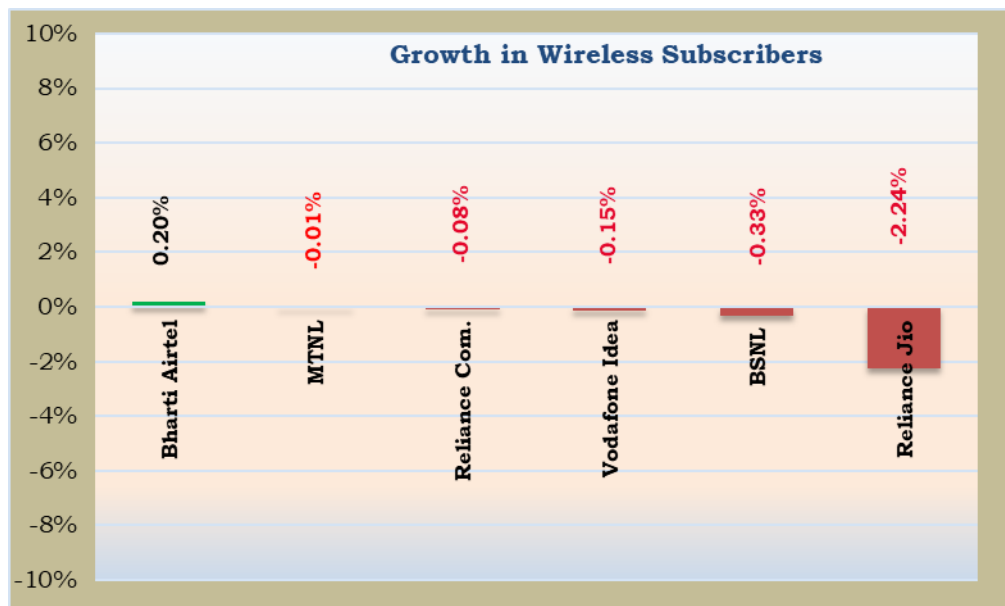
Net Addition/decline in Wireless Subscribers of Access Service Providers in the month of January, 2022



- Note:**
- M/s Bharti Airtel Ltd has reported the wireless subscribers including the subscribers of M/s Tata Teleservices Ltd.
 - Virtual Network Operator (VNO) of BSNL has started reporting of its subscribers from the month of October, 2018 and the same has been included in the subscriber base of BSNL.

IV. Growth in Wireless Subscribers

Access Service Provider-wise Monthly Growth Rate of Wireless Subscribers in the month of January, 2022



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

Service Area-wise Monthly Growth Rate of Wireless Subscribers in the month of January, 2022

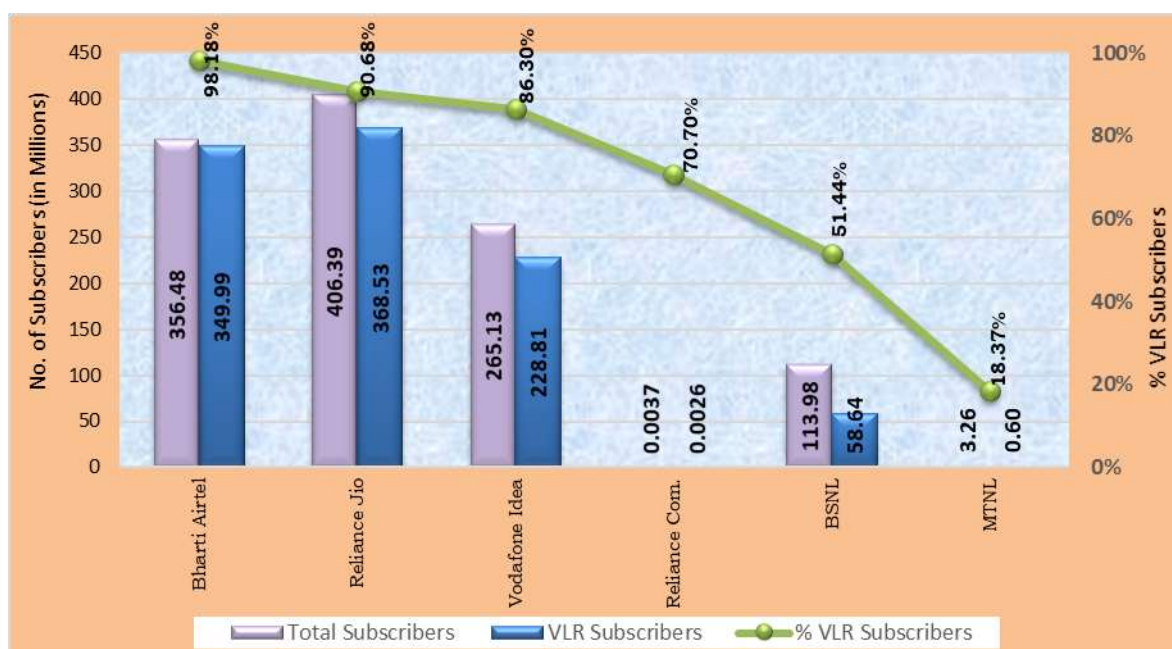


- Except Mumbai, Jammu & Kashmir and Maharashtra service areas, all other service areas have showed decline in their wireless subscribers during the month of January-22.

V. Active Wireless Subscribers (VLR Data)

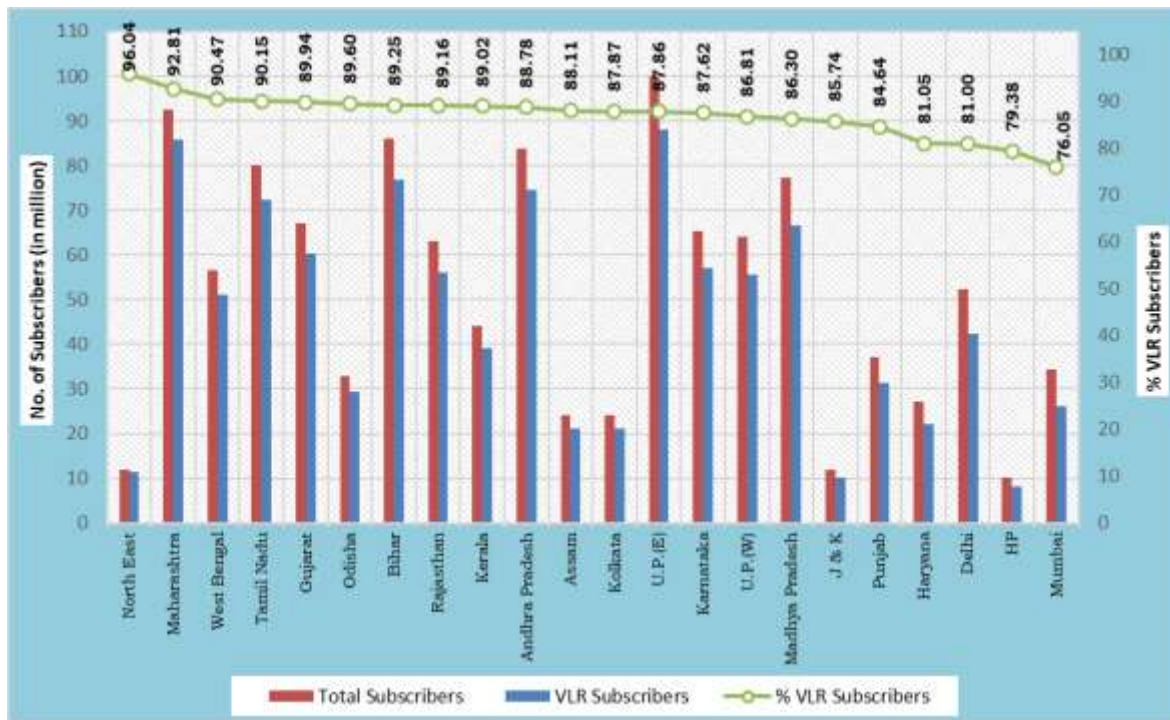
- Out of the total wireless subscribers (1,145.24 million), 1006.57 million wireless subscribers were active on the date of peak VLR in the month of January-22. The proportion of active wireless subscribers was approximately 87.89% of the total wireless subscriber base.
- The detailed statistics on proportion of active wireless subscribers (also referred to as VLR subscribers) on the date of peak VLR in the month of January-22 is available at **Annexure-II** 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 January, 2022



- Bharti Airtel has the maximum proportion (98.18%) of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of January-22 and MTNL has the minimum proportion of VLR (18.37%) of its HLR during the same period.

Service Area wise percentage of VLR Subscribers in the month of January, 2022



VI. 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 January-22, a total of 9.53 million requests were received for MNP. Out of total 9.53 million new requests, 5.49 million requests received from Zone-I and 4.04 million requests received from Zone-II. The cumulative MNP requests increased from 661.42 million at the end of December-21 to 670.95 million at the end of January-22, since the implementation of MNP.
- In MNP Zone-I (Northern and Western India), the highest number of requests till date have been received in Maharashtra (about 55.53 million) followed by Uttar Pradesh-East (about 50.81 million) service area.

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 52.18 million) followed by Andhra Pradesh (about 50.55 million).

Service Area Wise MNP Status					
Zone - 1			Zone - 2		
Service Area	Number of Porting Requests (in Million)		Service Area	Number of Porting Requests (in Million)	
	Dec-21	Jan-22		Dec-21	Jan-22
Delhi	32.23	32.61	Andhra Pradesh	50.04	50.55
Gujarat	44.55	45.13	Assam	4.58	4.63
Haryana	21.87	22.13	Bihar	32.60	33.30
Himachal Pradesh	3.01	3.05	Karnataka	51.72	52.18
Jammu & Kashmir	1.46	1.49	Kerala	17.61	17.83
Maharashtra	54.73	55.53	Kolkata	13.64	13.77
Mumbai	26.94	27.12	Madhya Pradesh	48.06	48.87
Punjab	24.46	24.73	North East	1.69	1.70
Rajasthan	47.46	48.04	Odisha	12.79	12.94
U.P.(East)	49.42	50.81	Tamil Nadu	48.42	48.86
U.P.(West)	39.25	40.26	West Bengal	34.89	35.45
Total	345.39	350.88	Total	316.03	320.07
Total (Zone-1 + Zone-2)				661.42	670.95
Net Addition (January, 2022)			9.53 million		

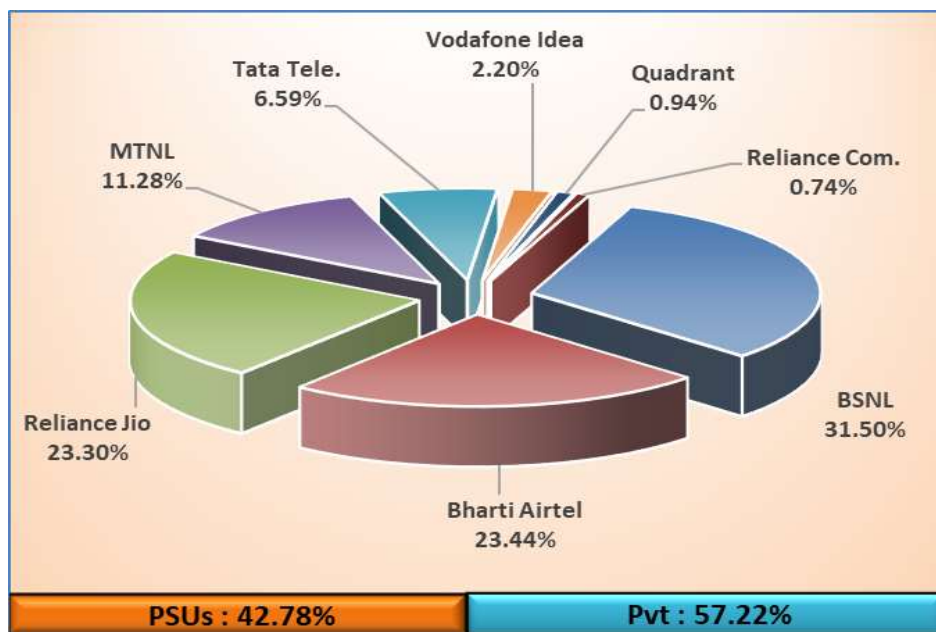
VII. Wireline Subscribers

- Wireline subscribers increased from 23.79 million at the end of December-21 to 24.21 million at the end of January-22. Net increase in the wireline subscriber base was 0.42 million with a monthly growth rate of 1.78%. The share of urban and rural subscribers in total wireline subscribers were 91.95% and 8.05% respectively at the end of January, 2022.
- The Overall Wireline Tele-density in India, increased from 1.73% at the end of December-21 to 1.76% at the end of January-22. Urban and Rural Wireline Tele-density were 4.66% and 0.22% respectively during the same period.

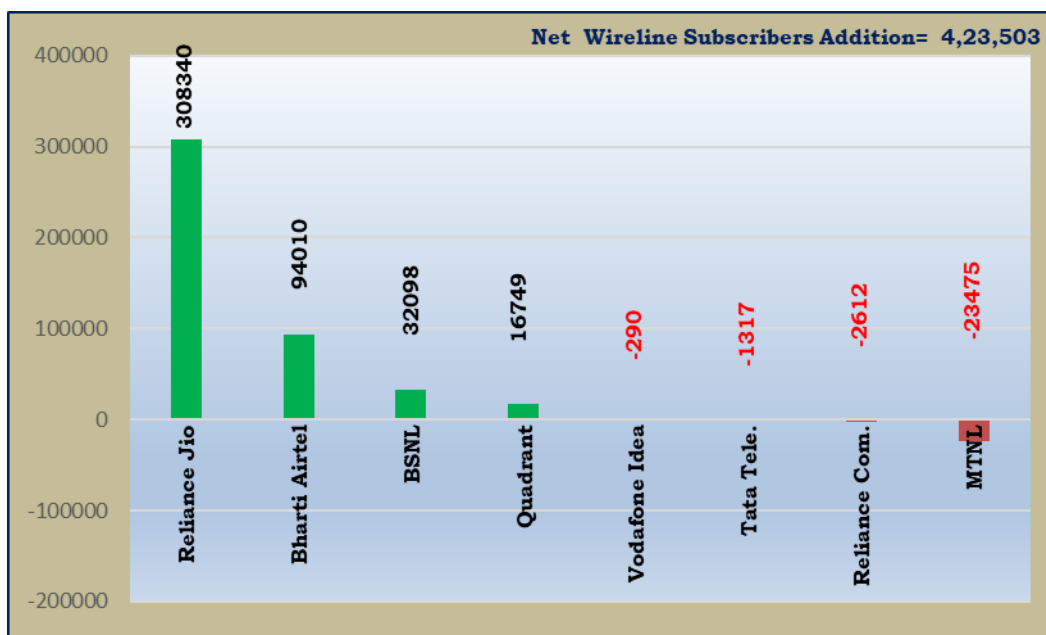
- BSNL and MTNL, the two PSU access service providers, held 42.78% of the wireline market share as on 31st January, 2022.

Detailed statistics of wireline subscriber base are available at **Annexure-III.**

Access Service Provider-wise Market Share of Wireline Subscribers as on 31st January, 2022



Access Service Provider-wise Net Addition/Decline in Wireline Subscribers during the month of January, 2022



VIII. Broadband (\geq 512 Kbps download)

- As per the information received from 618 operators in January 2022 in comparison to 616 Operator in December 2021, the total Broadband Subscribers decreased from 792.08 million at the end of December-21 to 783.43 million at the end of January-22 with a monthly decline rate of 1.10%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

Segment-wise Broadband Subscribers and Monthly Growth Rate in the month of January, 2022

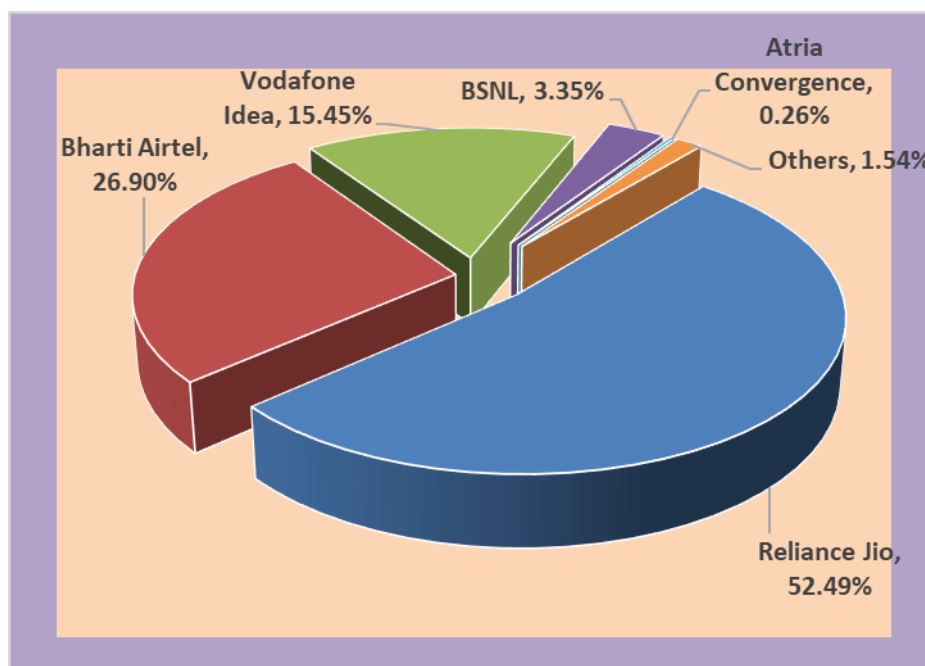
Segment	Broadband subscribers (in million)		Monthly growth rate in the month of January, 2022
	As on 31 st December, 2021	As on 31 st January, 2022	
Wired subscribers	26.43	26.65	0.85%
Mobile devices users (Phones and dongles)	764.52	755.66	-1.16%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	1.13	1.12	-1.20%
Total	792.08	783.43	-1.10%

- Top five service providers constituted 98.46% market share of the total broadband subscribers at the end of January-22. These service providers were Reliance Jio Infocomm Ltd (411.23 million), Bharti Airtel (210.75 million), Vodafone Idea (121.08 million), BSNL (26.25 million) and Atria Convergence (2.04 million).

Note: Some wireless service providers exclude incidental data users from their subscriber base, based on minimum usage decided by them.

- 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 January 2022**



- As on 31st January, 2022, the top five Wired Broadband Service providers were Reliance Jio Infocomm Ltd (4.83 million), Bharti Airtel (4.33 million), BSNL (3.90 million), Atria Convergence Technologies (2.04 million) and Hathway Cable & Datacom (1.10 million).

As on 31st January, 2022, the top five Wireless Broadband Service providers were Reliance Jio Infocom Ltd (406.39 million), Bharti Airtel (206.42 million), Vodafone Idea (121.07 million), BSNL (22.35 million) and Intech Online Pvt. Ltd. (0.21 million).

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Wireless Subscriber Base

Annexure-I

Circle	Bharti Airtel (including Tata Tele.)		Reliance Com.		Vodafone Idea		BSNL		BSNL (VNO's)		MTNL		Reliance Jio		Total		Net Addition
	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	
	Andhra Pradesh	31441078	31357641			14241991	14095576	9250321	9290633					29977838	29144296	84911228	
Assam	9,863,684	9,917,783			2751705	2634479	3148812	3170289					8469432	8338150	24233633	24060701	-172932
Bihar	36,617,800	36,786,692			10577260	10377727	6055483	5412137					34164308	33416852	87414851	85993408	-1421443
Delhi	16083381	16119708	208	208	15994885	16103982					2153573	2153142	18363659	17844325	52595706	52221365	-374341
Gujarat	11706924	11626613	109	109	23790340	23844613	5557094	5589794					26419800	25950498	67474267	67011627	-462640
Haryana	5758268	5803574	19	19	7912039	7888919	5008936	4927210					8964965	8605409	27644227	27225131	-419096
Himachal Pradesh	3346476	3323549	93	93	581906	562770	2731558	2755701					3685363	3589258	10345396	10231371	-114025
J & K	5585762	5570413	0	0	460394	456444	1314310	1321570					4440438	4464079	11800904	11812506	11602
Karnataka	30515006	30539030	691	725	8249302	7981269	6883854	6937785					20628775	19800475	66277628	65259284	-1018344
Kerala	7655543	7683913	185	185	16408387	16329344	10713151	10669413					9590349	9313299	44367615	43996154	-371461
Kolkata	5551034	5606499	2	2	6313538	6239867	2282912	2330334					10207503	9838331	24354989	24015033	-339956
Madhya Pradesh	15204073	15136663	0	0	20461601	20684045	6016461	6037258					35689111	35357826	77371246	77215792	-155454
Maharashtra	20034296	20129289	0	0	28665552	29317539	6626836	6646400					37083113	36334081	92409797	92427309	17512
Mumbai	9457931	9522065	1380	1367	11587899	11849869					1103707	1103707	12027759	11789900	34178676	34266908	88232
North East	5541403	5560199	0	0	1217071	1149253	1355620	1355854					3889037	3847195	12003131	11912501	-90630
Odisha	11054462	11063924	66	64	2002780	1943167	6230390	6273295					13887968	13562545	33175666	32842995	-332671
Punjab	11698618	11718655	144	139	8871081	8666491	5340564	5291338					11889299	11489023	37799706	37165646	-634060
Rajasthan	21437654	21502619	183	183	11463411	11378812	6339200	6395775					24090835	23674011	63331283	62951400	-379883
Tamil Nadu	28022805	28003817	317	316	18029076	17762548	9948483	10038454	51,438	52,494			24899646	24257707	80951765	80115336	-836429
U.P.(E)	35978842	36034430	0	0	20531856	20736110	11135129	11124399					32816775	32174664	100462602	100069603	-392999
U.P.(W)	17844869	18036076	21	21	19033068	19143370	5707962	5813800					21620210	21091113	64206130	64084380	-121750
West Bengal	15369706	15440662	316	300	16369180	15979046	2659841	2546902					22910130	22510693	57309173	56477603	-831570
Total	355769615	356483814	3734	3731	265514322	265125240	114306917	113928341	51438	52494	3257280	3256849	415716313	406393730	1154619619	1145244199	-9375420
Net Addition		714199		-3		-389082		-378576		1056		-431		-9322583	0	-9375420	
Rural Subscribers	170,148,053	171,475,760	0	0	134325487	133922181	36,827,143	36,640,975	0	0	45010	45001	179930365	176044602	521276058	518128519	-3147539

Note: 1. The subscribers of M/s Bharti Airtel includes subscribers of M/s Tata Teleservices Ltd.

2. Virtual Network Operator (VNO) of BSNL has reported its subscriber number from the month of October, 2018.

Proportion of VLR on the date of Peak VLR in the month of January-22 (%)							Annexure-II
Circle	Bharti	BSNL	Vodafone Idea	MTNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	98.29	57.57	89.29		-	88.26	88.78
Assam	97.76	43.74	90.72		-	92.67	88.11
Bihar	94.18	47.66	81.02		-	93.12	89.25
Delhi	95.17		74.00	11.55	95.19	82.89	81.00
Gujarat	103.38	47.35	91.62		88.99	91.55	89.94
Haryana	109.04	34.93	88.72		78.95	81.54	81.05
Himachal Pradesh	99.86	36.82	111.06		31.18	88.11	79.38
J & K	92.67	51.72	81.25		-	87.64	85.74
Karnataka	94.78	48.54	87.21		84.83	90.45	87.62
Kerala	99.72	73.49	93.40		92.43	90.32	89.02
Kolkata	95.27	42.87	88.37		50.00	93.99	87.87
Madhya Pradesh	97.61	44.75	81.10		-	91.60	86.30
Maharashtra	105.54	61.02	88.35		-	95.16	92.81
Mumbai	85.40		69.95	31.67	64.45	78.78	76.05
North East	103.03	61.66	91.24		-	99.48	96.04
Odisha	99.29	56.81	91.86		31.25	96.53	89.60
Punjab	104.52	43.09	84.62		65.47	83.51	84.64
Rajasthan	99.48	45.02	90.52		60.11	91.06	89.16
Tamil Nadu	94.70	69.09	95.48		93.35	89.77	90.15
U.P. (E)	99.43	32.45	85.27		-	95.75	87.86
U.P. (W)	104.80	40.13	83.63		47.62	87.18	86.81
West Bengal	96.85	71.32	86.75		35.00	90.91	90.47
Total	98.18	51.44	86.30	18.37	70.70	90.68	87.89

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.

Wireline Subscriber Base																		Annexure-III		
Service Area	BSNL		MTNL		Bharti Airtel		Reliance Com.		Tata Tele.		Quadrant		Vodafone Idea		Reliance Jio		Total		Net Addition	
	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22	Dec-21	Jan-22		
Andhra Pradesh	685587	684866			331146	337615	20421	20186	156777	157188			61800	61900	612321	643371	1868052	1905126	37074	
Assam	102,699	103,267			0	0	0	0	0	0			3090	2970	84138	90687	189927	196924	6997	
Bihar	178,530	179,660			0	0	20	20	7821	7890			1740	1740	213702	230479	401813	419789	17976	
Delhi	0	0	1292016	1289714	1726905	1741827	29875	31664	138496	139357			86377	86527	529284	563779	3802953	3852868	49915	
Gujarat	426891	414657			141669	152788	3466	3407	77024	76849			43306	43136	336570	352406	1028926	1043243	14317	
Haryana	182248	183928			39709	42354	0	0	33788	33367			360	360	60652	63566	316757	323575	6818	
Himachal Pradesh	87852	87850			0	0	0	0	1587	1560			30	30	26389	27903	115858	117343	1485	
J & K	104446	103203			34236	35727	0	0	0	0			30	30	126060	131052	264772	270012	5240	
Karnataka	871076	873712			876762	884700	23731	22854	245416	245141			93657	96457	429875	466935	2540517	2589799	49282	
Kerala	1062807	1066853			74927	75392	4838	4933	18668	18534			8770	8890	130981	137897	1300991	1312499	11508	
Kolkata	389729	381087			167235	168094	6516	6534	45924	45216			9930	10780	234916	251913	854250	863624	9374	
Madhya Pradesh	289096	290388			339682	345639	95	5	10951	12140			9500	9530	314866	333895	964190	991597	27407	
Maharashtra	736465	729707			240718	251647	10683	10604	213806	212389			24673	24703	145434	152461	1371779	1381511	9732	
Mumbai	0	0	1462573	1441400	461513	465895	53726	50980	480526	479252			107871	106861	533097	549607	3099306	3093995	-5311	
North East	80197	80159			0	0	0	0	0	0			330	330	70448	74373	150975	154862	3887	
Odisha	190624	189168			0	0	4	4	8353	8311			3670	3770	101190	109475	303841	310728	6887	
Punjab	257504	312867			179032	181865	1668	1647	13223	13476	211745	228494	2100	2190	145064	152033	810336	892572	82236	
Rajasthan	296733	294915			128159	133571	4007	3953	12197	12511			15200	15500	195944	207666	652240	668116	15876	
Tamil Nadu	1033111	1030730			650686	658275	23321	22968	117937	117887			37880	37180	426886	446315	2289821	2313355	23534	
U.P.(E)	187383	186749			110259	115823	20	20	7979	8102			20070	17130	239448	254932	565159	582756	17597	
U.P.(W)	200908	200249			78709	84145	7	7	4427	4359			3250	3330	254497	272119	541798	564209	22411	
West Bengal	229754	231723			0	0	12	12	2410	2464			120	120	120837	128075	353133	362394	9261	
Total	7593640	7625738	2754589	2731114	5581347	5675357	182410	179798	1597310	1595993	211745	228494	533754	533464	5332599	5640939	23787394	24210897	423503	
Net Addition		32098		-23475		94010		-2612		-1317		16749		-290		308340		423503		
Rural Subscribers	1801564	1814384	0	0	0	0	180	150	37943	37684	23685	25558	0	0	65993	70882	1929365	1948658	19293	

Note: - BSNL-FTTH Voice-connections have also been incorporated from the month of May 2021

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.