TELECOM REGULATORY AUTHORITY OF INDIA
New Delhi, 19th December, 2022

(www.trai.gov.in)

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

Particulars	Wireless	Wireline	Total (Wireless+ Wireline)
Total Telephone Subscribers (Million)	**1143.63**	**26.82**	**1170.45**
Net Addition in October, 2022 (Million)	-1.81	0.35	-1.46
Monthly Growth Rate	-0.16%	1.32%	-0.12%
Urban Telephone Subscribers (Million)	**625.18**	**24.81**	**649.99**
Net Addition in October, 2022 (Million)	-1.95	0.33	-1.62
Monthly Growth Rate	-0.31%	1.36%	-0.25%
Rural Telephone Subscribers (Million)	**518.45**	**2.01**	**520.46**
Net Addition in October, 2022 (Million)	0.14	0.018	0.16
Monthly Growth Rate	0.03%	0.89%	0.03%
Overall Tele-density*(%)	**82.75%**	**1.94%**	**84.69%**
Urban Tele-density*(%)	128.96%	5.12%	134.08%
Rural Tele-density*(%)	57.78%	0.22%	58.01%
Share of Urban Subscribers	54.67%	92.50%	55.53%
Share of Rural Subscribers	45.33%	7.50%	44.47%
Broadband Subscribers (Million)	**790.14**	**31.35**	**821.49**

❖ In the month of October, 2022, 11.81 million subscribers submitted their requests for Mobile Number Portability (MNP). With this, the cumulative MNP requests increased from 748.11 million at the end of September-22 to 759.92 million at the end of October-22, since implementation of MNP.

❖ Number of active wireless subscribers (on the date of peak VLR#) in October, 2022 was 1016.81 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.
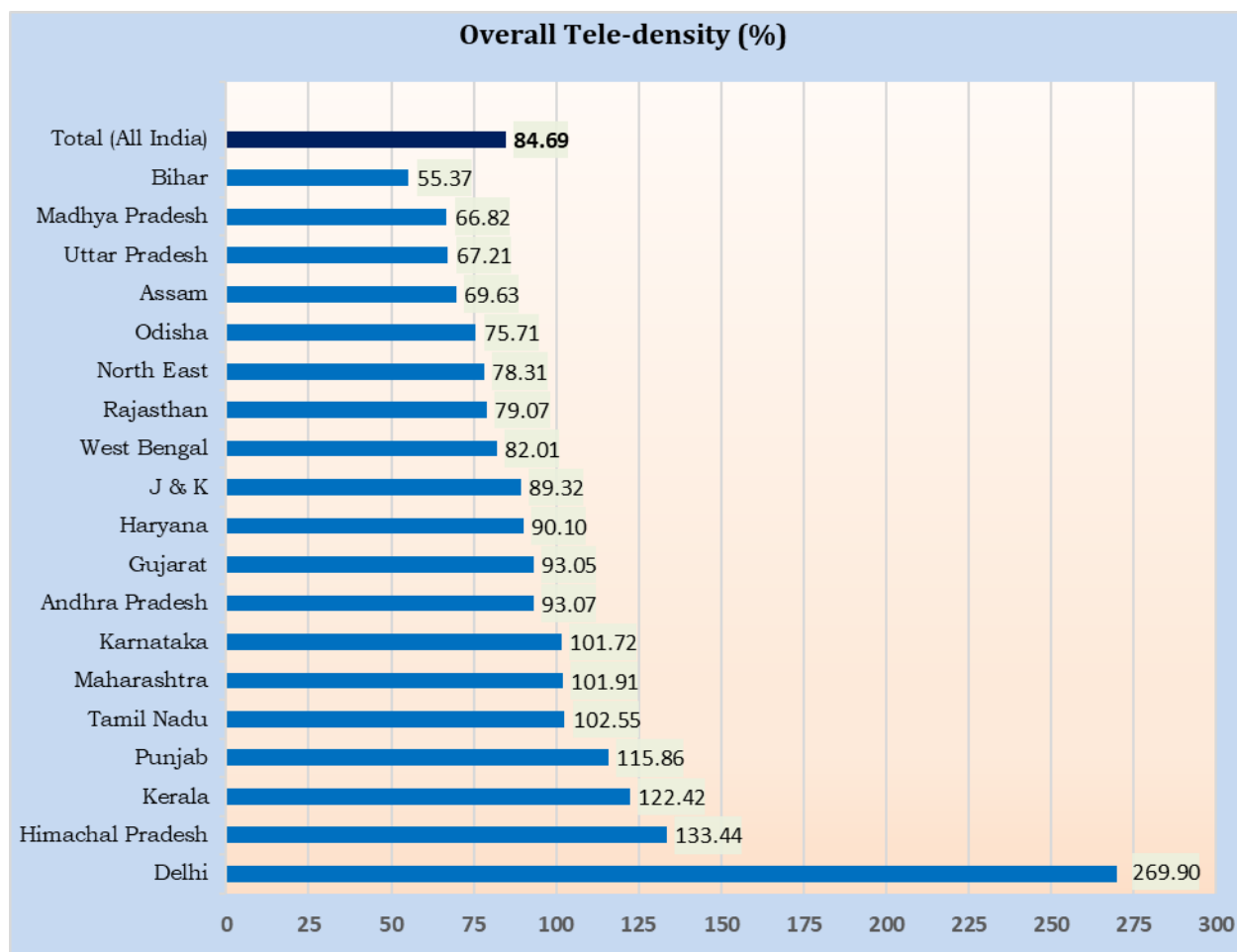
I. Total Telephone Subscribers

- The number of telephone subscribers in India decreased from 1,171.92 million at the end of September-22 to 1,170.45 million at the end of October-22, thereby showing a monthly decline rate of 0.12%. Urban telephone subscription decreased from 651.61 million at the end of September-22 to 649.99 million at the end of October-22 however, the rural subscription increased from 520.30 million to 520.46 million during the same period. The monthly growth rates of urban and rural telephone subscription were -0.25% and 0.03% respectively during the month of October-22.

- The overall Tele-density in India decreased 84.86% at the end of September-22 to 84.69% at the end of October-22. The Urban Tele-density decreased from 134.62% at the end of September-22 to 134.08% at the end of October-22 however, Rural Tele-density remained same i.e. 58.01% at the end of October-22 which was end of September-22. The share of urban and rural subscribers in total number of telephone subscribers at the end of October-22 was 55.53% and 44.47% respectively.

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

Overall Tele-density (%)

LSA	Tele-density (%)
Total (All India)	84.69
Bihar	55.37
Madhya Pradesh	66.82
Uttar Pradesh	67.21
Assam	69.63
Odisha	75.71
North East	78.31
Rajasthan	79.07
West Bengal	82.01
J & K	89.32
Haryana	90.10
Gujarat	93.05
Andhra Pradesh	93.07
Karnataka	101.72
Maharashtra	101.91
Tamil Nadu	102.55
Punjab	115.86
Kerala	122.42
Himachal Pradesh	133.44
Delhi	269.90

- 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 October-22. Delhi service area has maximum tele-density of 269.90% and the Bihar service area has minimum tele-density of 55.37% at the end of October-22.

Notes: -

1. Population data/projections are available state wise only.
2. 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%20 2011-2036%20-%20upload_compressed_0.pdf
3. 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).
4. Data/information for West Bengal includes Kolkata, Maharashtra includes Mumbai and Uttar Pradesh includes UPE & UPW service area(s).
5. 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 October 2022

Circle Category	Net additions in the month of October, 2022		Telephone Subscriber base as on 31st October, 2022	
	Wireline segment	Wireless segment	Wireline segment	Wireless segment
Circle A	1,25,722	-6,41,815	1,02,36,904	38,40,74,219
Circle B	1,22,909	-16,58,985	65,85,991	46,58,43,027
Circle C	41,346	2,38,659	18,58,999	18,26,68,912
Metro	60,453	2,48,989	81,37,978	11,10,47,534
All India	**3,50,430**	**-18,13,152**	**2,68,19,872**	**1,14,36,33,692**

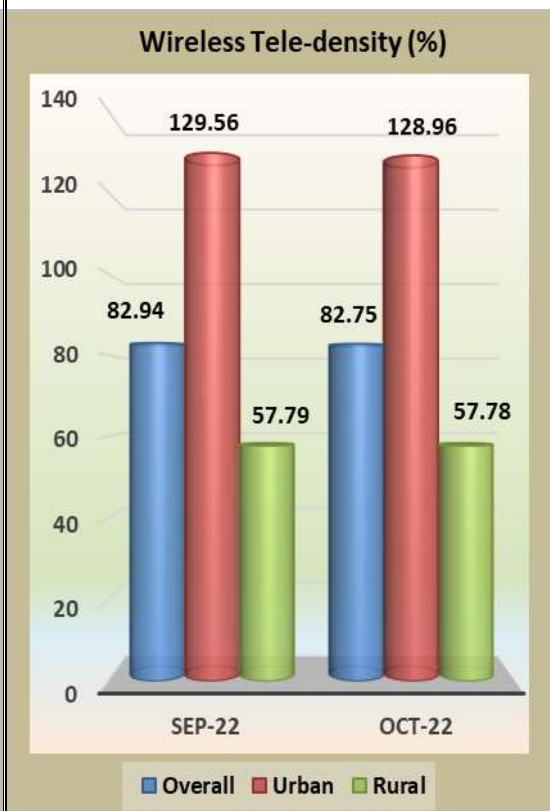**Circle Category-wise monthly and yearly Growth Rates in Telephone Subscribers in the month of October 2022**

Circle Category	Monthly growth rate (%) (September-22 to October-22)		Yearly growth rate (%) (October-21 to October-22)	
	Wireline Segment	Wireless Segment	Wireline Segment	Wireless Segment
Circle A	1.24	-0.17	15.00	-3.26
Circle B	1.90	-0.35	22.80	-2.61
Circle C	2.27	0.13	34.71	2.23
Metro	0.75	0.22	6.00	-1.09
All India	**1.32**	**-0.16**	**15.00**	**-1.94**

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 except Circle 'C' and Circle 'Metro', all circles have registered decline rate in their subscriber base. On yearly basis, except Circle 'C' all circles have registered decline rate in their subscriber base.

- In Wireline segment both on monthly and yearly basis, all circles have registered growth rate in their subscriber base.
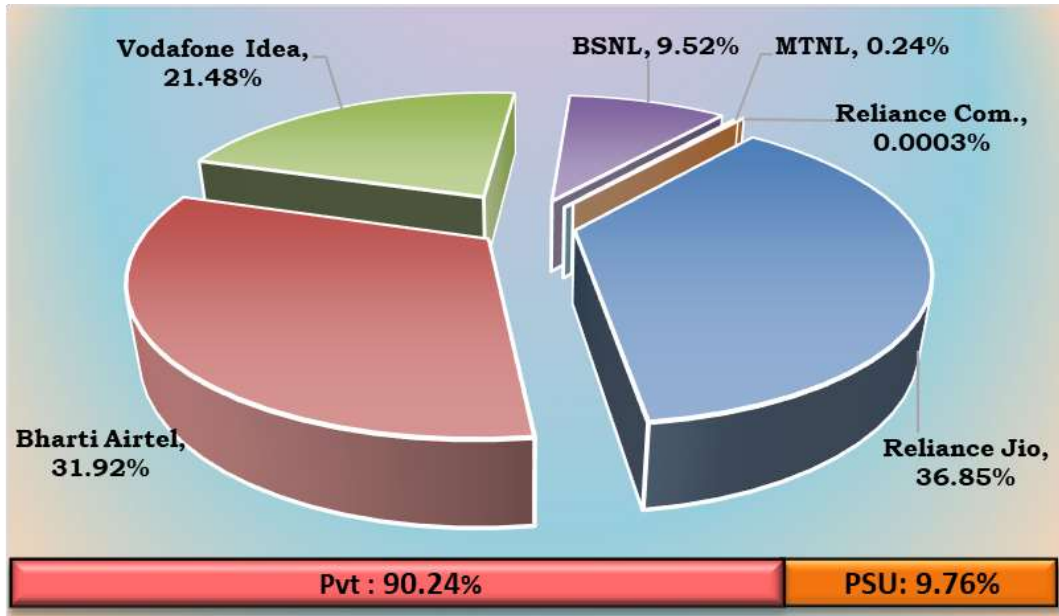
III. Wireless subscriber

- Total wireless subscribers decreased from 1,145.45 million at the end of September-22, to 1,143.63 million at the end of October-22, thereby registering a monthly decline rate of 0.16%. Wireless subscription in urban areas decreased from 627.14 million at the end of September-22 to 625.18 million at the end of October-22 however, wireless subscription in rural areas increased from 518.31 million to 518.45 million during the same period. Monthly growth rates of urban and rural wireless subscription were -0.31% and 0.03% respectively.
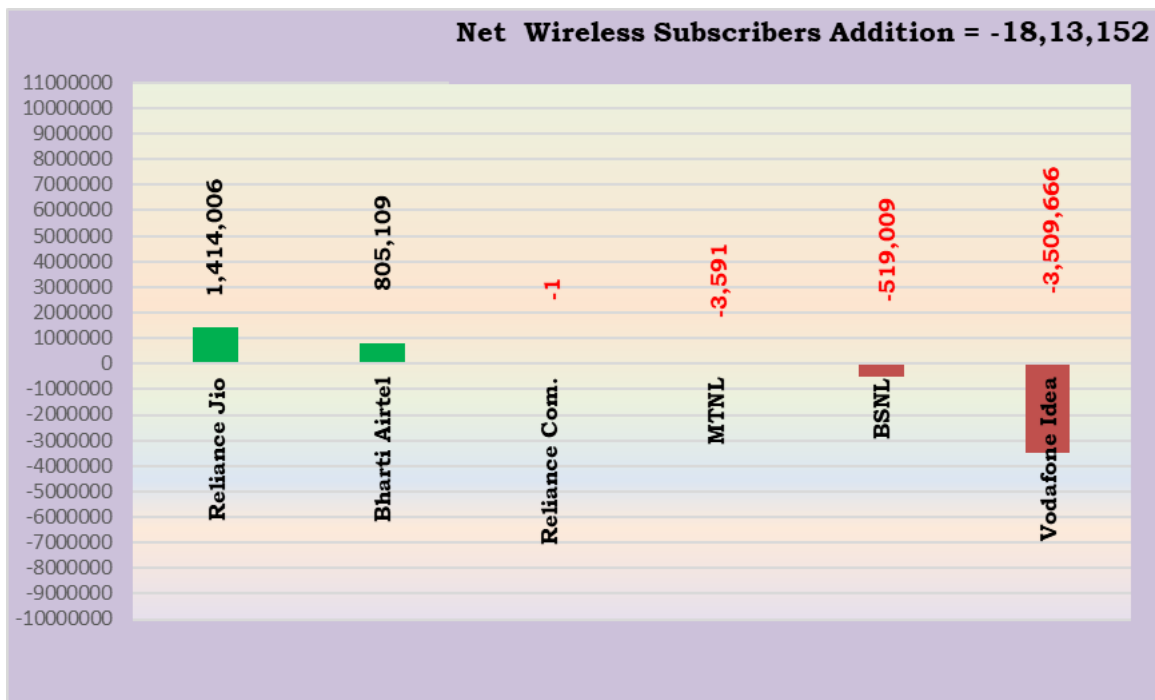
Total Wireless Subscribers (in Million)

	SEP-22	OCT-22
Total	1,145.45	1,143.63
Urban	627.14	625.18
Rural	518.31	518.45

Wireless Tele-density (%)

	SEP-22	OCT-22
Overall	82.94	82.75
Urban	129.56	128.96
Rural	57.79	57.78

- The Wireless Tele-density in India decreased from 82.94% at the end of September-22 to 82.75% at the end of October-22. The Urban Wireless Tele-density decreased from 129.56% at the end of September-22 to 128.96% at the end of October-22 and Rural Tele-density also decreased from 57.79% to 57.78% during the same period. The share of urban and rural wireless subscribers in total number of wireless subscribers was 54.67% and 45.33% respectively at the end of October-22. Detailed statistics of wireless subscriber base is available at **Annexure-I**.

- As on 31st October, 2022, the private access service providers held 90.24% market share of the wireless subscribers whereas BSNL and MTNL, the two PSU access service providers, had a market share of only 9.76%.

- 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 October, 2022

Vodafone Idea, 21.48%
BSNL, 9.52%
MTNL, 0.24%
Reliance Com., 0.0003%
Bharti Airtel, 31.92%
Reliance Jio, 36.85%

Pvt : 90.24%   PSU: 9.76%

Net Addition in Wireless Subscribers of Access Service Providers in the month of October, 2022

Net Wireless Subscribers Addition = -18,13,152

Provider	Net Addition
Reliance Jio	1,414,006
Bharti Airtel	805,109
Reliance Com.	-1
MTNL	-3,591
BSNL	-519,009
Vodafone Idea	-3,509,666

Growth in Wireless Subscribers

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

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

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


- Except Mumbai, Assam, Delhi, Odisha, Punjab, Himachal Pradesh, Bihar and Karnataka service areas, all other service areas have showed decline rate in their wireless subscribers during the month of October-22.

IV. Active Wireless Subscribers (VLR Data)

- Out of the total 1,143.63 million wireless subscribers, 1016.81 million wireless subscribers were active on the date of peak VLR in the month of October-22. The proportion of active wireless subscribers was approximately 88.91% 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 October-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 October, 2022
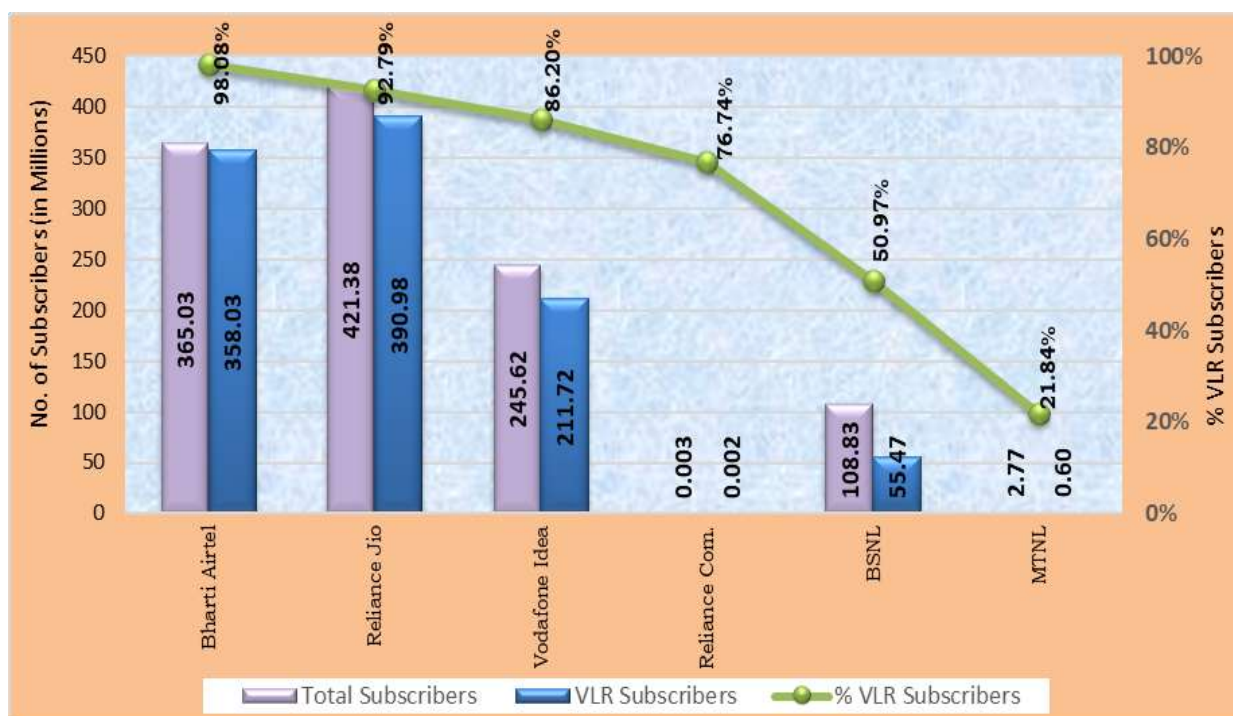
- Bharti Airtel has the maximum proportion 98.08% of its active wireless subscribers (VLR) as against its total wireless subscribers (HLR) on the date of peak VLR in the month of October-22 and MTNL has the minimum proportion of VLR 21.84% of its HLR during the same period.

Service Area wise percentage of VLR Subscribers in the month of October, 2022
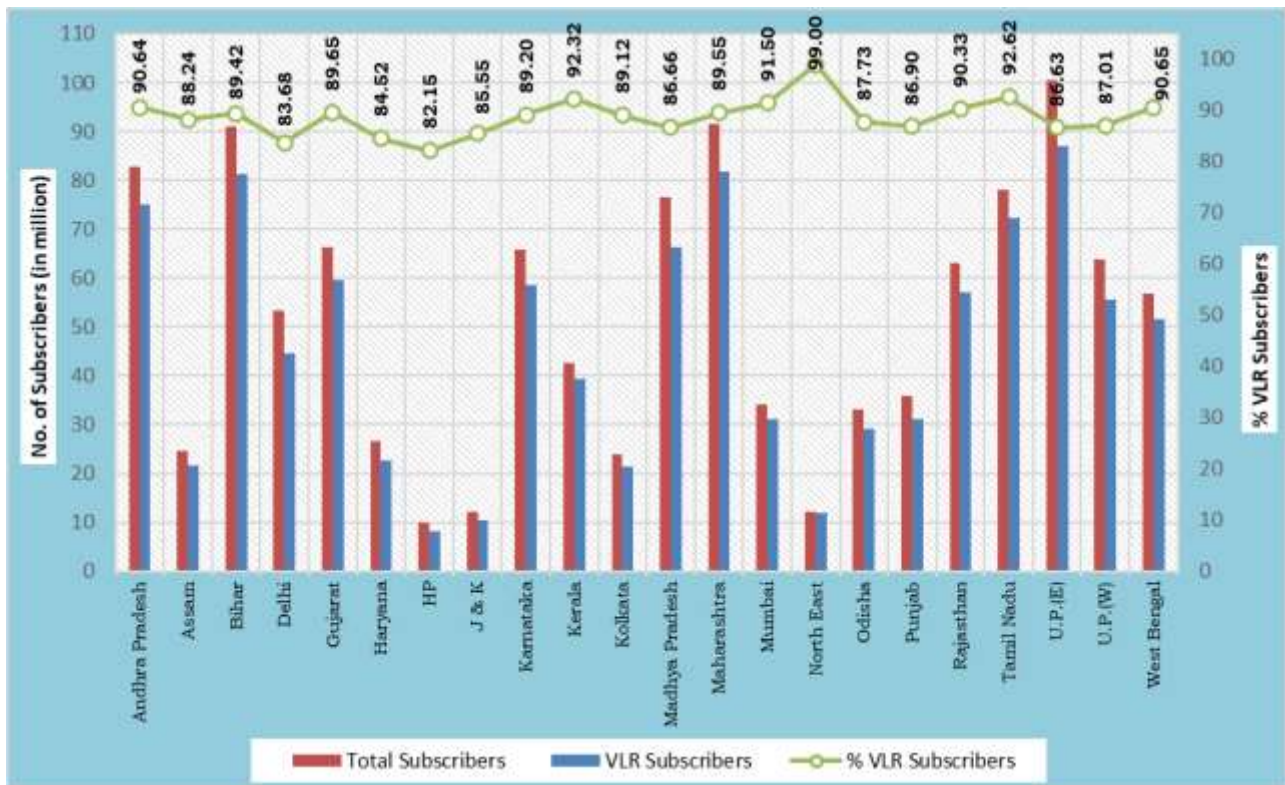
VI. Mobile Number Portability (MNP)

- 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 October-22, a total of 11.81 million requests were received for MNP. Out of total 11.81 million new requests, 6.97 million requests received from Zone-I and 4.83 million requests received from Zone-II. The cumulative MNP requests increased from 748.11 million at the end of September-22 to 759.92 million at the end of October-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 62.67 million) followed by Uttar Pradesh-East (about 62.65 million) service area.

- In MNP Zone-II (Southern and Eastern India), the highest number of requests till date have been received in Karnataka (about 56.99 million) followed by Madhya Pradesh (about 56.72 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)	
	Sep-22	Oct-22		Sep-22	Oct-22
Delhi	35.88	36.41	Andhra Pradesh	54.49	55.11
Gujarat	50.83	51.68	Assam	5.36	5.43
Haryana	24.51	24.82	Bihar	38.47	39.21
Himachal Pradesh	3.35	3.39	Karnataka	56.36	56.99
Jammu & Kashmir	1.71	1.74	Kerala	19.59	19.81
Maharashtra	61.67	62.67	Kolkata	14.90	15.04
Mumbai	28.52	28.76	Madhya Pradesh	55.64	56.72
Punjab	26.87	27.17	North East	1.83	1.85
Rajasthan	53.33	54.07	Odisha	14.02	14.18
U.P.(East)	60.95	62.65	Tamil Nadu	52.13	52.62
U.P.(West)	47.70	48.91	West Bengal	39.99	40.67
Total	395.31	402.29	Total	352.79	357.63
Total (Zone-1 + Zone-2)				748.11	759.92
Net Addition (October, 2022)					11.81 million

VII. Wireline Subscribers

- Wireline subscribers increased from 26.47 million at the end of September-22 to 26.82 million at the end of October-22. Net increase in the wireline subscriber base was 0.35 million with a monthly growth rate of 1.32%. The share of urban and rural subscribers in total wireline subscribers were 92.50% and 7.50% respectively at the end of October, 2022.

- The Overall Wireline Tele-density in India increased from 1.92% at the end of September-22 to 1.94% at the end of October-22. Urban and Rural Wireline Tele-density were 5.12% and 0.22% respectively during the same period.

- BSNL and MTNL, the two PSU access service providers, held 36.04% of the wireline market share as on 31st October, 2022.

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

Access Service Provider-wise Market Share of Wireline Subscribers as on 31st October, 2022
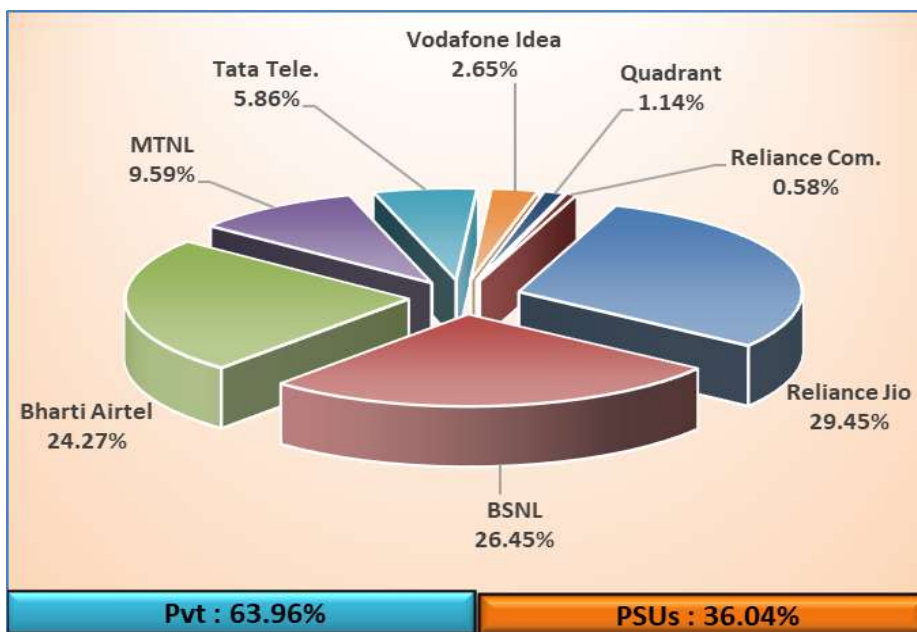
Access Service Provider-wise Net Addition/Decline in Wireline Subscribers during the month of October, 2022

VIII. Broadband Subscriber

- As per the information received from 874 operators in October, 2022 in comparison to 846 Operator in September 2022, the tota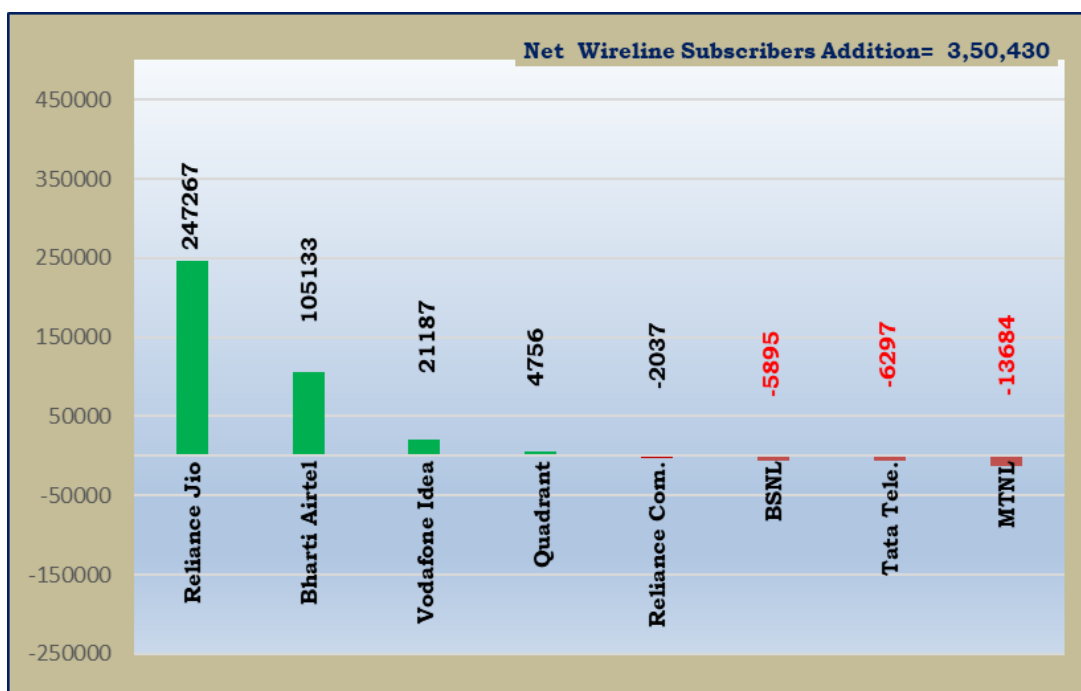l Broadband Subscribers increased from 816.24 million at the end of September-22 to 821.49 million at the end of October-22 with a monthly growth rate of 0.64%. Segment-wise broadband subscribers and their monthly growth rates are as below: -

Segment–wise Broadband Subscribers and Monthly Growth Rate in the month of October, 2022

Segment	Broadband subscribers (in million)		Monthly growth rate in the month of October, 2022
	As on 30th September, 2022	As on 31st October, 2022	
Wired subscribers	31.09	31.35	0.83%
Mobile devices users (Phones and dongles)	783.99	789.10	0.65%
Fixed Wireless subscribers (Wi-Fi, Wi-Max, Point-to-Point Radio & VSAT)	1.15	1.04	-9.68%
Total	**816.24**	**821.49**	**0.64%**

- Top five service providers constituted 98.40% market share of the total broadband subscribers at the end of October-22. These service providers were Reliance Jio Infocomm Ltd (428.50 million), Bharti Airtel (228.26 million), Vodafone Idea (123.37 million), BSNL (26.05 million) and Atria Convergence (2.14 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 October, 2022
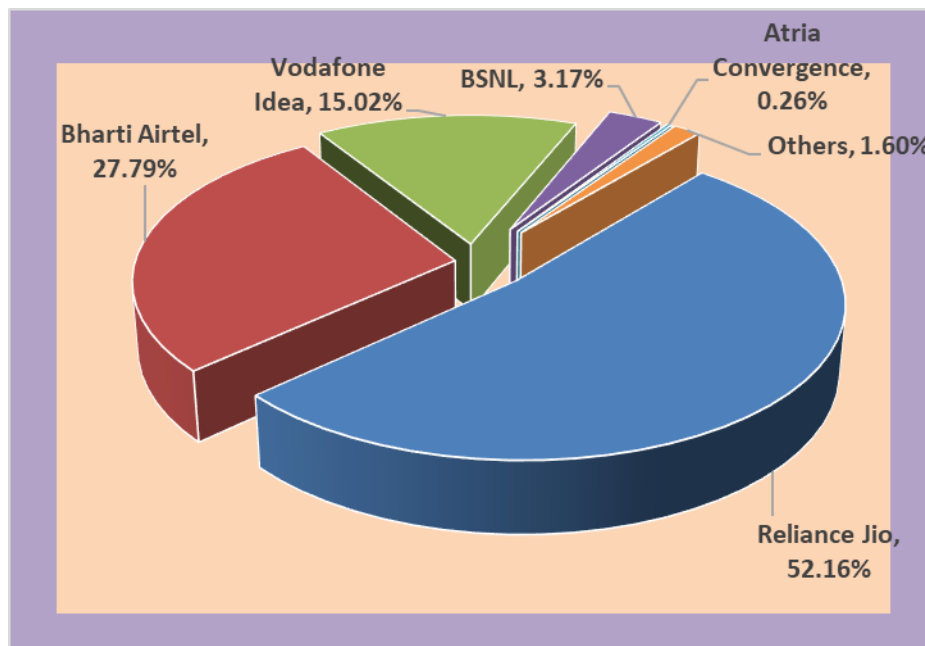
- As on 31st October, 2022, the top five <u>Wired</u> Broadband Service providers were Reliance Jio Infocomm Ltd (7.12 million), Bharti Airtel (5.41 million), BSNL (3.95 million), Atria Convergence Technologies (2.14 million) and Hathway Cable & Datacom (1.13 million).

As on 31st October, 2022, the top five <u>Wireless</u> Broadband Service providers were Reliance Jio Infocom Ltd (421.38 million), Bharti Airtel (222.85 million), Vodafone Idea (123.36 million), BSNL (22.10 million) and Intech Online Pvt. Ltd. (0.23 million).

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Secretary, TRAI

	Wireless Subscriber Base																Annexure-I
Circle	**Bharti Airtel** (including Tata		**Reliance Com.**		**Vodafone Idea**		**BSNL**		**BSNL (VNO's)**		**MTNL**		**Reliance Jio**		**Total**		**Net Addition**
	Sep-22	**Oct-22**	**Sep-22**	**Oct-22**	**Sep-22**	**Oct-22**	**Sep-22**	**Oct-22**	**Sep-22**	**Oct-22**	**Sep-22**	**Oct-22**	**Sep-22**	**Oct-22**	**Sep-22**	**Oct-22**	
Andhra Pradesh	31774350	31881272			12491955	12300968	8797156	8781567					29629059	29691246	**82692520**	**82655053**	-37467
Assam	10,438,124	10,502,842			2264284	2203229	3313824	3336449					8423085	8488456	**24439317**	**24530976**	91659
Bihar	39,367,223	39,544,824			9959642	9700393	5669094	5690177					35927758	36085593	**90923717**	**91020987**	97270
Delhi	16438020	16546528	198	198	16616495	16668651					1691594	1691203	18315529	18293364	**53061836**	**53199944**	138108
Gujarat	11252833	11240322	57	57	23266733	22971933	5293414	5233513					26786692	26853347	**66599729**	**66299172**	-300557
Haryana	6314298	6385784	13	13	7729482	7633531	4724280	4709067					7977956	7981082	**26746029**	**26709477**	-36552
Himachal Pradesh	3368664	3397367	92	92	521480	510985	2613363	2613635					3296501	3290053	**9800100**	**9812132**	12032
J & K	5870318	5840123	0	0	414420	408684	832966	833458					4949686	4981591	**12067390**	**12063856**	-3534
Karnataka	30920839	30969953	601	601	7668092	7636633	6576460	6516496					20565682	20627732	**65731674**	**65751415**	19741
Kerala	7821693	7842755	152	152	14990802	14878749	10115577	10011031					9758480	9750919	**42686704**	**42483606**	-203098
Kolkata	5687241	5688040	0	0	5993135	5947569	2172368	2150086					10041779	10079669	**23894523**	**23865364**	-29159
Madhya Pradesh	15342537	15289095	0	0	18318854	17867798	5628013	5542016					37513234	37826692	**76802638**	**76525601**	-277037
Maharashtra	20547335	20649914	0	0	26351731	25785346	6386783	6411561					38459608	38605459	**91745457**	**91452280**	-293177
Mumbai	9390935	9462952	1197	1197	11440567	11515155					1078159	1074959	11931328	11927963	**33842186**	**33982226**	140040
North East	5780529	5798015	0	0	1023214	1004679	1,389,461	1,385,412					3936541	3915585	**12129745**	**12103691**	-26054
Odisha	11302188	11360062	32	32	1677824	1645826	6,330,453	6,320,827					13759487	13810523	**33069984**	**33137270**	67286
Punjab	12053572	12105740	113	113	7640310	7544015	5,054,814	5,051,223					11072338	11183703	**35821147**	**35884794**	63647
Rajasthan	22111587	21978942	161	161	10609215	10400783	6,390,012	6,378,687					24227583	24298718	**63338558**	**63057291**	-281267
Tamil Nadu	27160209	27255080	272	271	17445195	17221976	9,532,053	9,537,386	73,001	146,396			23735924	23755190	**77946654**	**77916299**	-30355
U.P.(E)	36164407	36158120	0	0	19609019	19331519	10,371,737	10,147,502					34611274	34743042	**100756437**	**100380183**	-376254
U.P.(W)	18692418	18635968	8	8	17878479	17532134	5,709,997	5,648,600					21944303	22105744	**64225205**	**63922454**	-302751
West Bengal	16421417	16492148	157	157	15221878	14912584	2,379,097	2,389,825					23102745	23084907	**57125294**	**56879621**	-245673
Total	**364220737**	**365025846**	**3053**	**3052**	**249132806**	**245623140**	**109280922**	**108688518**	**73001**	**146396**	**2769753**	**2766162**	**419966572**	**421380578**	**1145446844**	**1143633692**	**-1813152**
Net Addition		805109		-1		-3509666		-592404		73395		-3591		1414006		0	-1813152	
Rural Subscribers	*175,016,773*	*177,267,773*	*0*	*0*	*123711971*	*121161494*	*35,078,353*	*34,880,358*	*0*	*0*	*35354*	*35346*	*184466150*	*185104088*	*518308601*	*518449059*	*140458*

Proportion of VLR on the date of Peak VLR in the month of Oct-22 (%)   Annexure-II

Circle	Bharti	BSNL	Vodafone Idea	M TNL	Reliance Com.	Reliance Jio	Total
Andhra Pradesh	98.82	57.98	92.82		-	90.60	**90.64**
Assam	96.46	41.28	90.79		-	95.86	**88.24**
Bihar	92.75	42.91	79.51		-	95.76	**89.42**
Delhi	102.29		65.67	17.08	89.90	89.40	**83.68**
Gujarat	105.21	45.88	91.60		94.74	90.01	**89.65**
Haryana	103.35	32.62	88.45		92.31	96.31	**84.52**
Himachal Pradesh	98.11	37.86	103.73		43.48	97.49	**82.15**
J & K	91.31	74.71	79.45		-	81.11	**85.55**
Karnataka	95.66	48.26	84.76		93.84	94.07	**89.20**
Kerala	103.75	80.02	92.55		99.34	95.42	**92.32**
Kolkata	92.52	45.12	88.09		-	97.18	**89.12**
Madhya Pradesh	96.44	46.13	84.53		-	89.66	**86.66**
Maharashtra	106.23	0.00	88.15		-	96.44	**89.55**
Mumbai	91.99		70.71	29.34	67.92	83.38	**91.50**
North East	102.51	48.76	93.45		-	113.00	**99.00**
Odisha	97.34	51.95	94.61		37.50	95.38	**87.73**
Punjab	99.85	40.34	89.14		63.72	92.39	**86.90**
Rajasthan	99.57	40.88	93.38		60.25	93.64	**90.33**
Tamil Nadu	98.65	68.94	93.02		98.52	95.06	**92.62**
U.P. (E)	96.09	31.76	86.05		-	93.15	**86.63**
U.P. (W)	103.24	37.29	85.72		100.00	87.04	**87.01**
West Bengal	93.61	72.58	86.67		47.13	92.98	**90.65**
Total	**98.08**	**50.97**	**86.20**	**21.84**	**76.74**	**92.79**	**88.91**

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

Service Area	BSNL		MTNL		Bharti Airtel		Reliance Com.		Tata Tele.		Quadrant		Vodafone Idea		Reliance Jio		Total		Net Addition
	Sep-22	Oct-22	Sep-22	Oct-22	Sep-22	Oct-22	Sep-22	Oct-22	Sep-22	Oct-22	Sep-22	Oct-22	Sep-22	Oct-22	Sep-22	Oct-22	Sep-22	Oct-22	
Andhra Pradesh	676698	675656			388080	399967	20247	20189	154615	155898			75155	72595	882035	917700	2196830	2242005	45175
Assam	107,865	108,173			14230	15030	0	0	0	0			2730	2730	126474	131038	251299	256971	5672
Bihar	161,267	162,761			45704	47896	9	9	8947	8934			1980	2010	345815	359798	563722	581408	17686
Delhi	0	0	1249661	1244785	1826346	1843591	23096	22232	141845	141704			84590	85870	734172	755172	4059710	4093354	33644
Gujarat	355783	350220			166931	168833	2265	2551	76401	77156			49136	56806	450378	462609	1100894	1118175	17281
Haryana	186772	188844			85590	89298	0	0	31625	31520			360	420	86349	89841	390696	399923	9227
Himachal Pradesh	88360	88899			2953	3273	0	0	1561	1564			30	30	41382	42954	134286	136720	2434
J & K	91611	90852			65203	67767	0	0	0	0			30	30	162881	167052	319725	325701	5976
Karnataka	874983	876405			983541	994879	20702	21056	226735	226058			146012	157752	681993	684798	2933966	2960948	26982
Kerala	1028453	1023603			83486	84508	4075	3803	19119	19070			6810	6810	192530	200550	1334473	1338344	3871
Kolkata	211911	213718			177461	178175	5385	4441	48372	48340			14255	14855	350386	364345	807770	823874	16104
Madhya Pradesh	259391	256422			390766	398406	5	14	12461	12486			29365	29895	465632	483817	1157620	1181040	23420
Maharashtra	641532	640237			325396	333368	9831	9882	208844	208005			26463	26373	195909	200694	1407975	1418559	10584
Mumbai	0		1335525	1326717	497526	502073	46890	46184	476701	471568			174536	175850	678867	698358	3210045	3220750	10705
North East	76764	76125			0	0	0	0	0	0			360	510	113671	118337	190795	194972	4177
Odisha	174087	172630			1046	646	4	4	8587	8454			3990	3990	170112	177503	357826	363227	5401
Punjab	309753	313450			199686	202706	1970	1988	15058	15160	301569	306325	2040	2040	213770	222290	1043846	1063959	20113
Rajasthan	285087	284526			169407	173726	3484	3637	12989	12893			15385	15385	282324	292654	768676	782821	14145
Tamil Nadu	990170	984248			728365	743017	19874	19742	119497	118210			36980	37363	576631	594637	2471517	2497217	25700
U.P.(E)	140938	141044			148497	153027	20	20	8253	8268			16720	16750	345854	359369	660282	678478	18196
U.P.(W)	187784	188168			95971	98585	10	9	4758	4788			3738	3788	379419	395081	671680	690419	18739
West Bengal	250934	258267			7578	10125	13	82	2627	2622			120	120	174537	179791	435809	451007	15198
Total	7100143	7094248	2585186	2571502	6403763	6508896	157880	155843	1578995	1572698	301569	306325	690785	711972	7651121	7898388	26469442	26819872	350430
Net Addition		-5895		-13684		105133		-2037		-6297		4756		21187		247267		350430	
Rural Subscribers	1799053	1815626	34	34	0	0	418	423	32581	29450	20599	20473	0	0	141117	145476	1993802	2011482	17680

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.