Telecom Statistics India-2022

सत्यमेव जयते

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New Delhi

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Telecom at a Glance

S.No.	Title	At the end of March							
		2015	2016	2017	2018	2019	2020	2021	2022
1	**Telephones and teledensity in the country**								
	i)Telephones (In Million)	**996.13**	**1059.33**	**1194.99**	**1211.80**	**1183.41**	**1176.79**	**1200.88**	**1166.84**
	ii)Teledensity (Per 100 Inhabitants)	**79.36**	**83.40**	**93.01**	**93.27**	**90.10**	**88.66**	**88.15**	**84.87**
2	**No. of Subscribers (In Million)**								
	i)Landline	26.59	25.22	24.40	22.81	21.70	19.13	20.24	24.82
	ii)Mobile subscribers	969.54	1034.11	1170.59	1188.99	1161.71	1157.67	1180.64	1142.02
3	**Telephone Subscribers in India (In Million)**	**996.13**	**1059.33**	**1194.99**	**1211.80**	**1183.41**	**1176.79**	**1200.88**	**1166.84**
	i)Rural	416.08	447.77	501.81	525.87	514.27	521.26	537.11	519.63
	ii)Urban	580.05	611.56	693.18	685.93	669.14	655.54	663.76	647.21
	iii)Public	100.34	108.65	122.18	131.66	133.51	134.97	131.16	127.10
	iv)Private	895.79	950.68	1072.81	1080.14	1049.90	1041.82	1069.72	1039.74
4	**Telephone Subscribers in India (%age share)**								
	Wireline	2.67	2.38	2.04	1.88	1.83	1.63	1.69	2.13
	Wireless	97.33	97.62	97.96	98.12	98.17	98.37	98.31	97.87
	Rural	41.77	42.27	41.99	43.40	43.46	44.29	44.73	44.53
	Urban	58.23	57.73	58.01	56.60	56.54	55.71	55.27	55.47
	Public	10.07	10.26	10.22	10.86	11.28	11.47	10.92	10.89
	Private	89.93	89.74	89.78	89.14	88.72	88.53	89.08	89.11
5	**Teledensity (Per 100 Inhabitants)**	**79.36**	**83.40**	**93.01**	**93.27**	**90.10**	**88.66**	**88.15**	**84.87**
	Wireline	2.12	1.99	1.90	1.76	1.65	1.44	1.49	1.81
	Wireless	77.24	81.41	91.11	91.51	88.45	87.22	86.66	83.07
	Rural	48.04	51.26	56.98	59.25	57.50	57.87	60.17	57.98
	Urban	149.04	154.18	171.52	166.64	159.66	153.68	141.29	135.23
	Public	7.99	8.55	9.51	10.13	10.16	10.17	9.63	9.25
	Private	71.36	74.85	83.50	83.14	79.94	78.49	78.52	75.63
6	**No. of PCOs and VPTs in India (In lakh)**								
	PCO	7.37	5.89	4.52	3.60	2.55	1.73	1.26	0.66
	VPT	5.86	5.87	2.30	1.99	1.30	0.68	0.69	0.69
7	**No. of Mobile connections (MTNL)**								
	Ported-in	**25784**	**24627**	**17730**	**8702**	**10195**	**7672**	**2046**	**3385**
	Delhi	9552	11509	8067	2185	3170	2130	683	998
	Mumbai	16232	13118	9663	6517	7025	5542	1363	2387
	Ported-out	**75464**	**79007**	**97091**	**181160**	**135104**	**87844**	**58586**	**48652**
	Delhi	39387	39868	59402	119059	76351	34836	19040	10542
	Mumbai	36077	39139	37689	62101	58753	53008	39546	38110
8	**No. of Mobile connections (BSNL)**								
	Ported-in	914412	2031668	2777935	4132600	5364649	4002233	1712601	2885060
	Ported-out	1613843	1781002	2061542	3496128	2827440	3337764	6305339	5231828
9	**Internet Subscribers in India (In Million)**	**302.36**	**342.65**	**422.20**	**493.96**	**636.73**	**743.19**	**825.30**	**824.89**
	Narrowband	203.15	192.90	145.68	81.35	73.42	55.75	47.21	36.59
	Broadband	99.20	149.75	276.52	412.60	563.31	687.44	778.09	788.30
	Wired	19.07	20.44	21.58	21.24	21.68	22.42	26.00	27.27
	Wireless	283.29	322.21	400.62	472.72	615.05	720.77	799.31	797.62
	Urban	194.80	230.71	285.68	348.13	409.72	457.22	502.53	493.08
	Rural	107.56	111.94	136.52	145.83	227.01	285.97	322.77	331.81
10	**Internet Subscribers in India (Per 100 Inhabitants)**	**24.09**	**26.98**	**32.86**	**38.02**	**48.48**	**55.12**	**60.73**	**60.00**
	Urban	49.07	58.28	70.83	84.74	97.94	99.12	107.30	102.82
	Rural	12.89	12.80	15.49	16.41	25.36	32.24	36.24	37.06

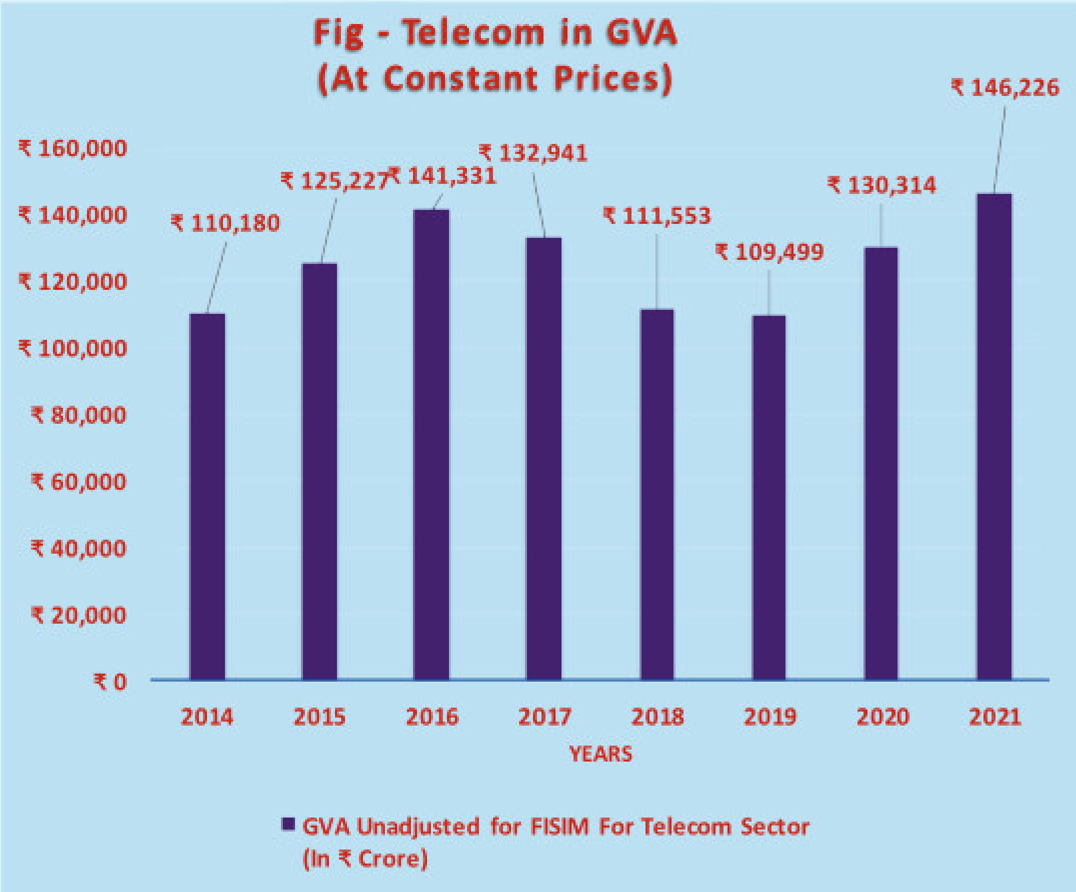
Telecom at a Glance (Contd.)

S.No.	Title	At the end of March							
		2015	2016	2017	2018	2019	2020	2021	2022
11	**Revenue from Telecom Services (₹ crore)**								
	Telecom Sector								
	Gross Revenue #	260,601.00	279,591.00	255,655.00	237,417.00	243,705.00	274,208.00	66,783.75	76,386.83
	Adjusted Gross Revenue #	184,636.00	198,207.00	160,814.00	144,446.00	153,272.00	182,398.00	48,587.40	58,886.29
	Wireless Data Revenue #	31,120.00	35,079.00	38,882.00	54,671.00	59,334.00	113,156.00	38,607.95	46,421.09
	Access Services-ARPU per month #	121.81	126.91	89.34	71.62	72.49	97.64	NA	NA
	Licence Fee	12,358.00	15,771.00	15,615.00	13,262.00	11,134.00	39,648.00	15,273.00	16,630.00
	Spectrum Usage Charges	7,051.00	7,622.00	7,048.00	4,984.00	4,028.00	11,386.00	5,975.49	7,517.48
	Spectrum Auction Related Proceeds	10,791.00	28,243.00	46,653.00	11,860.00	24,894.00	24,947.00	21,949.80	60,811.25
12	**Telecom Usage Parameters**								
	Traffic (MOU) (minutes of use/subscriber/month) #								
	GSM	383	381	405	584	692	750	818	955
	CDMA	265	260	250	60				
	Wireless Data Usage per subscriber per month	0.41 $	1.14 $	4.11 $	7.6 $	9.85 $	11.76 $	12.33 #	15.8 #
	Minutes of usages for internet Telephony (Million) #	245.00	277.00	258.00	258.00	197.00	181.34	174.89	137.74
	Wireless data usage (in million GB per year)	1375 $	4642 $	20092 $	46404 $	76319 $	103522 $	27799 #	35885 #
13	**FDI EQUITY INFLOWS (US$ In Million)**	30,931	40,001	43,478	44,857	44,366	49,977	59,636	58,773
	Telecommunication Sector	2,895	1,324	5,564	6,212	2,668	4,445	392	668
	Share of Telecommunication Sector	9.36%	3.31%	12.80%	13.85%	6.01%	8.89%	0.66%	1.14%
14	**GVA (In Crore) (At constant price) (As per NAS)**	₹ 9,712,133	₹ 10,491,870	₹ 11,328,285	₹ 12,034,171	₹ 12,733,798	₹ 13,219,476	₹ 12,585,074	-
	GVA Telecom Sector	₹ 125,227	₹ 141,331	₹ 132,941	₹ 111,553	₹ 109,499	₹ 130,314	₹ 146,226	-
	Share of Telecom Sector	1.29	1.35	1.17	0.93	0.86	0.95 -		-
15	**Number of Mobile Towers**	NA	NA	443054	464661	537187	595667	645814	710040
16	**No. of Base Transceiver Stations(BTS)**	869886	1154156	1435853	1737027	2108517	2192943	2240276	2332550
	Operator-wise performance								
17	Telecom Subscribers in India (In Million)	996.13	1059.33	1194.99	1211.80	1183.41	1176.79	1200.88	1166.84
	PSU	100.34	108.65	122.18	131.66	133.51	134.97	131.16	127.10
	BSNL	93.24	101.58	115.09	124.75	126.81	128.52	124.96	121.17
	MTNL	7.10	7.06	7.09	6.90	6.70	6.45	6.20	5.93
	Private	895.79	950.68	1072.81	1080.14	1049.90	1041.82	1069.72	1039.74
18	Operator-wise subscriber percent Share in Total (All Operators)								
	PSU	10.07	10.26	10.22	10.86	11.28	11.47	10.92	10.89
	BSNL	9.36	9.59	9.63	10.29	10.72	10.92	10.41	10.38
	MTNL	0.71	0.67	0.59	0.57	0.57	0.55	0.52	0.51
	Private	89.93	89.74	89.78	89.14	88.72	88.53	89.08	89.11

Source: DoT, TRAI, ITU, TSPs, MOSPI *# March Qtr. Ending* *$ Calendar Year*

Table - Share of Telecom in GVA
(At constant price) (In ₹ Crore)

Year ending	Total GVA (In ₹ Crore)	GVA Unadjusted for FISIM For Telecom Sector (In ₹ Crore)	Share of Telecom Sector (%)
2012	₹ 8,106,946	₹ 91,346	1.13
2013	₹ 8,546,275	₹ 97,541	1.14
2014	₹ 9,063,649	₹ 110,180	1.22
2015	₹ 9,712,133	₹ 125,227	1.29
2016	₹ 10,491,870	₹ 141,331	1.35
2017	₹ 11,328,285	₹ 132,941	1.17
2018	₹ 12,034,171	₹ 111,553	0.93
2019	₹ 12,733,798	₹ 109,499	0.86
2020	₹ 13,219,476	₹ 130,314	0.95
2021	₹ 12,585,074	₹ 146,226	1.16



1 – Telecom Subscriber Statistics

*(The geographical areas covered under telecom 'service areas' are given at **Annexure-I**)*

Table 1.1 - Trend of total telephones and teledensity in the country (2001 to 2022)

At the end of March	Total Telephones (in million)	Tele-density (%)
2001	36.28	3.58
2002	44.97	4.29
2003	54.61	5.11
2004	76.54	7.02
2005	98.37	8.95
2006	142.09	12.74
2007	205.87	18.22
2008	300.49	26.22
2009	429.72	36.98
2010	621.28	52.73
2011	846.33	70.89
2012	951.35	78.66
2013	898.02	73.32
2014	933.02	75.23
2015	996.13	79.36
2016	1059.33	83.40
2017	1194.99	93.01
2018	1211.80	93.27
2019	1183.41	90.10
2020	1176.79	88.66
2021	1200.88	88.15
2022	1166.84	84.87

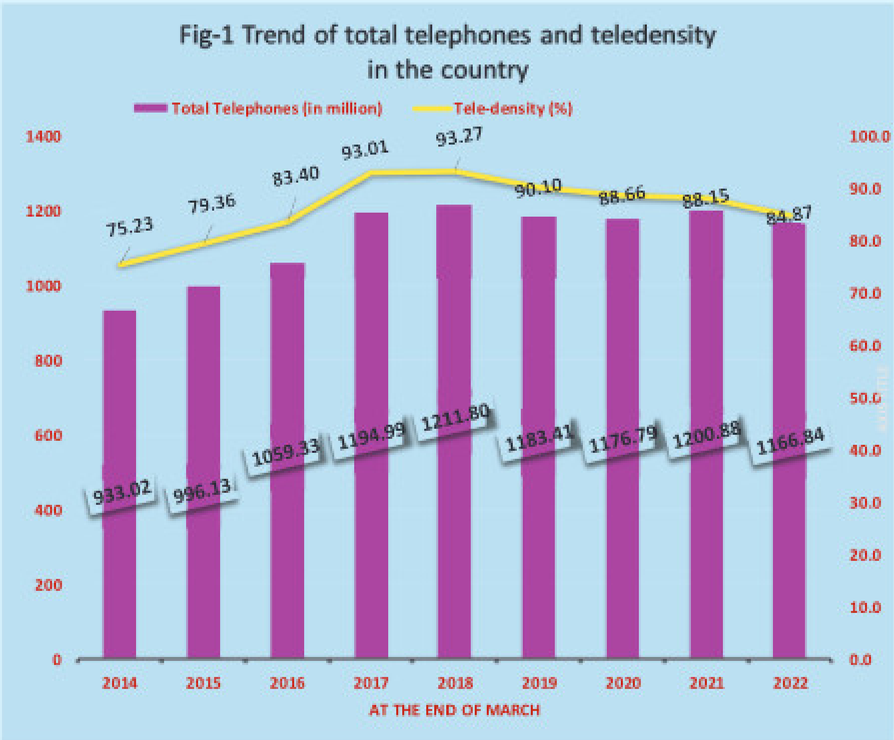


Table 1.2 - Number of landline and mobile subscribers (2001 to 2022)

At the end of March	No. of Mobile phone subscribers (in Million)	No. of landline subscribers (in Million)
2001	3.58	32.70
2002	6.68	38.29
2003	13.29	41.32
2004	35.62	40.92
2005	56.95	41.42
2006	101.87	40.22
2007	165.09	40.77
2008	261.08	39.41
2009	391.76	37.96
2010	584.32	36.96
2011	811.6	34.73
2012	919.18	32.17
2013	867.81	30.21
2014	904.52	28.50
2015	969.54	26.59
2016	1034.11	25.22
2017	1170.59	24.40
2018	1188.99	22.81
2019	1161.71	21.70
2020	1157.67	19.13
2021	1180.64	20.24
2022	1142.02	24.82

Fig 2 - Number of landline and mobile subscribers

Table 1.3 - Rural, Urban, Public and Private Telephone Subscribers in India (In Million) (2006-2022)

At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2006	142.09	40.22	101.87	18.54	123.55	61.08	81.01
2007	205.85	40.77	165.08	47.10	158.76	71.39	134.47
2008	300.49	39.41	261.08	76.50	223.99	79.55	220.94
2009	429.73	37.96	391.76	123.51	306.21	89.55	340.18
2010	621.28	36.96	584.32	200.77	420.51	105.87	515.41
2011	846.33	34.73	811.60	282.29	564.04	126.00	720.33
2012	951.35	32.17	919.17	330.83	620.52	130.27	821.08
2013	898.02	30.21	867.81	349.21	548.80	130.11	767.91
2014	933.02	28.50	904.52	377.78	555.23	120.05	812.96
2015	996.13	26.59	969.54	416.08	580.05	100.34	895.79
2016	1059.33	25.22	1034.11	447.77	611.56	108.65	950.68
2017	1194.99	24.40	1170.59	501.81	693.18	122.18	1072.81
2018	1211.80	22.81	1188.99	525.87	685.93	131.66	1080.14
2019	1183.41	21.70	1161.71	514.27	669.14	133.51	1049.90
2020	1176.79	19.13	1157.67	521.26	655.54	134.97	1041.82
2021	1200.88	20.24	1180.64	537.11	663.76	131.16	1069.72
2022	1166.84	24.82	1142.02	519.63	647.21	127.10	1039.74

Fig 3A - Compostion of subscribers - Rural & Urban, At the end of March, 2021 (In Million)

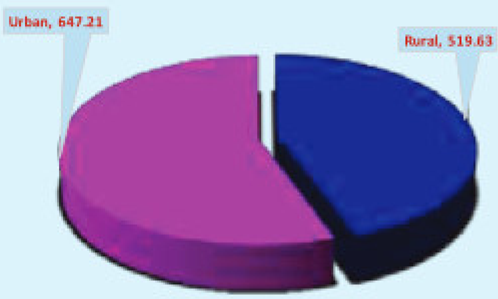


Fig 3B - Compostion of subscribers - Pubilc & Private Operators, At the end of March, 2021 (In Million)

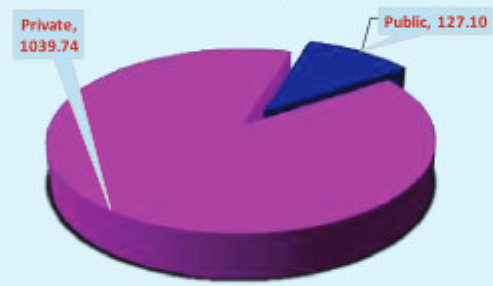


Table 1.4 - Telephone Subscribers in India (Percent Share) (2006-2022)

At the end of March	Wireline	Wireless	Rural	Urban	Public	Private
2006	28.31	71.69	13.05	86.95	42.99	57.01
2007	19.81	80.19	22.88	77.12	34.68	65.32
2008	13.12	86.88	25.46	74.54	26.47	73.53
2009	8.83	91.17	28.74	71.26	20.84	79.16
2010	5.95	94.05	32.32	67.68	17.04	82.96
2011	4.10	95.90	33.35	66.65	14.89	85.11
2012	3.38	96.62	34.77	65.23	13.69	86.31
2013	3.36	96.64	38.89	61.11	14.49	85.51
2014	3.05	96.95	40.49	59.51	12.87	87.13
2015	2.67	97.33	41.77	58.23	10.07	89.93
2016	2.38	97.62	42.27	57.73	10.26	89.74
2017	2.04	97.96	41.99	58.01	10.22	89.78
2018	1.88	98.12	43.40	56.60	10.86	89.14
2019	1.83	98.17	43.46	56.54	11.28	88.72
2020	1.63	98.37	44.29	55.71	11.47	88.53
2021	1.69	98.31	44.73	55.27	10.92	89.08
2022	2.13	97.87	44.53	55.47	10.89	89.11

Fig 4A - Compostion of subscribers - Rural & Urban, At the end of March, 2021 (% Share)

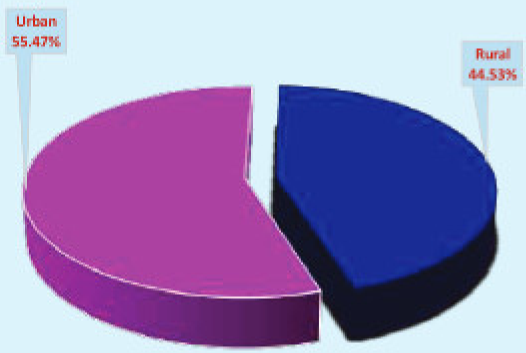


Fig 4B - Compostion of subscribers - Pubilc & Private Operators, At the end of March, 2021 (% Share)

Table 1.5 - Teledensity (No. of Subscribers Per 100 Inhabitants) (2006-2022)

At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2006	12.74	3.61	9.13	2.34	38.28	5.48	7.26
2007	18.22	3.61	14.61	5.89	48.10	6.32	11.90
2008	26.22	3.44	22.78	9.46	66.39	6.94	19.28
2009	36.98	3.27	33.71	15.11	88.84	7.71	29.27
2010	52.74	3.14	49.60	24.31	119.45	8.99	43.75
2011	70.89	2.91	67.98	33.83	156.93	10.55	60.34
2012	78.66	2.66	76.00	39.26	169.17	10.77	67.89
2013	73.32	2.47	70.85	41.05	146.64	10.62	62.69
2014	75.23	2.30	72.94	44.01	145.46	9.68	65.55
2015	79.36	2.12	77.24	48.04	149.04	7.99	71.36
2016	83.40	1.99	81.41	51.26	154.18	8.55	74.85
2017	93.01	1.90	91.11	56.98	171.52	9.51	83.50
2018	93.27	1.76	91.51	59.25	166.64	10.13	83.14
2019	90.10	1.65	88.45	57.50	159.66	10.16	79.94
2020	88.66	1.44	87.22	57.87	153.68	10.17	78.49
2021	88.15	1.49	86.66	60.17	141.29	9.63	78.52
2022	84.87	1.81	83.07	57.98	135.23	9.25	75.63

Fig 5 - Teledensity (Per 100 Inhabitants) (2014-2021)

Table 1.6 - Number of Public Call Offices (PCOs) and Village Public Telephones (VPTs) in India (In Lakh) (2000-2022)

March Ending	Public Call Offices (PCOs)	Village Public Telephones (VPTs)
2000	6.50	4.10
2001	8.60	3.70
2002	10.80	4.70
2003	14.90	5.10
2004	19.20	5.20
2005	27.70	5.30
2006	42.00	5.50
2007	55.50	5.64
2008	61.90	5.60
2009	62.00	5.61
2010	45.90	5.76
2011	33.30	5.85
2012	20.10	5.84
2013	12.60	5.90
2014	9.57	5.89
2015	7.37	5.86
2016	5.89	5.87
2017	4.52	2.30
2018	3.60	1.99
2019	2.55	1.30
2020	1.73	0.68
2021	1.26	0.69
2022	0.66	0.69

Fig 6 - Number of Public Call Offices (PCOs) and Village Public Telephones (VPTs) in India (2008-2021)

Table 1.7 - Number of mobile connections Ported-in and Ported-out of MTNL

Period	Ported in			Ported out			Ratio of Port out to Port in		
	Delhi	Mumbai	Total	Delhi	Mumbai	Total	Delhi	Mumbai	Total
20.01.11 -31.03.11	5593	2125	**7718**	17022	17676	**34698**	3.04	8.32	**4.50**
2011-12	14347	5376	**19723**	41280	40111	**81391**	2.88	7.46	**4.13**
2012-13	14826	7836	**22662**	44986	29672	**74658**	3.03	3.79	**3.29**
2013-14	9286	6880	**16166**	43721	33252	**76973**	4.71	4.83	**4.76**
2014-15	9552	16232	**25784**	39387	36077	**75464**	4.12	2.22	**2.93**
2015-16	11509	13118	**24627**	39868	39139	**79007**	3.46	2.98	**3.21**
2016-17	8067	9663	**17730**	59402	37689	**97091**	7.36	3.90	**5.48**
2017-18	2185	6517	**8702**	119059	62101	**181160**	54.49	9.53	**20.82**
2018-19	3170	7025	**10195**	76351	58753	**135104**	24.09	8.36	**13.25**
2019-20	2130	5542	**7672**	34836	53008	**87844**	16.35	9.56	**11.45**
2020-21	683	1363	**2046**	19040	39546	**58586**	27.88	29.01	**28.63**
2021-22	998	2387	**3385**	10542	38110	**48652**	10.56	15.97	**14.37**
Total	**82346**	**84064**	**166410**	**545494**	**485134**	**1030628**	**6.62**	**5.77**	**6.19**

Table 1.8 - Number of mobile connections Ported-in and Ported-out of BSNL

Calender Year	Ported in	Ported out	Ratio of Port out to Port in
Since Launch of MNP Upto March 2014	3073524	4383988	**1.43**
2015	914412	1613843	**1.76**
2016	2031668	1781002	**0.88**
2017	2777935	2061542	**0.74**
2018	4132600	3496128	**0.85**
2019	5364649	2827440	**0.19**
2020	4002233	3337764	**0.83**
2021	1712601	6305339	**4.47**
2022	2885060	5231828	**1.81**
Total	**26894682**	**31038874**	**1.15**

Source- Bharat Sanchar Nigam Limited

Table 1.9 - Internet Subscribers in India (In Million) (2007-2022)

At the end of March	Total	Narrowband	Broadband	Wired	Wireless	Urban	Rural
2007	-	-	2.34	9.27	31.30	-	-
2008	-	-	3.87	11.09	65.50	-	-
2009	-	-	6.22	13.54	117.82	-	-
2010	-	7.41	8.77	16.18	177.87	-	-
2011	-	7.79	11.89	19.68	381.40	-	-
2012	-	5.70	13.81	19.51	-	-	-
2013	-	6.56	15.05	21.61	143.20	-	-
2014	251.59	190.72	60.87	18.50	233.09	-	-
2015	302.36	203.15	99.20	19.07	283.29	194.80	107.56
2016	342.65	192.90	149.75	20.44	322.21	230.71	111.94
2017	422.20	145.68	276.52	21.58	400.62	285.68	136.52
2018	493.96	81.35	412.60	21.24	472.72	348.13	145.83
2019	636.73	73.42	563.31	21.68	615.05	409.72	227.01
2020	743.19	55.75	687.44	22.42	720.77	457.22	285.97
2021	825.30	47.21	778.09	26.00	799.31	502.53	322.77
2022	824.89	36.59	788.30	27.27	797.62	493.08	331.81

Fig 9A - Internet Subscribers - Narrowband & Broadband (in Million)

Source: TRAI

Fig 9B - Internet Subscribers - Wired & Wireless (in Million)

Source: TRAI

Table 1.10 - Internet Density
(Internet Subscribers Per 100 Inhabitants)

At the end of March	Total	Urban	Rural
2013	13.45	-	-
2014	20.29	-	-
2015	24.09	49.07	12.89
2016	26.98	58.28	12.80
2017	32.86	70.83	15.49
2018	38.02	84.74	16.41
2019	48.48	97.94	25.36
2020	55.12	99.12	32.24
2021	60.73	107.30	36.24
2022	60.00	102.82	37.06

Source - TRAI

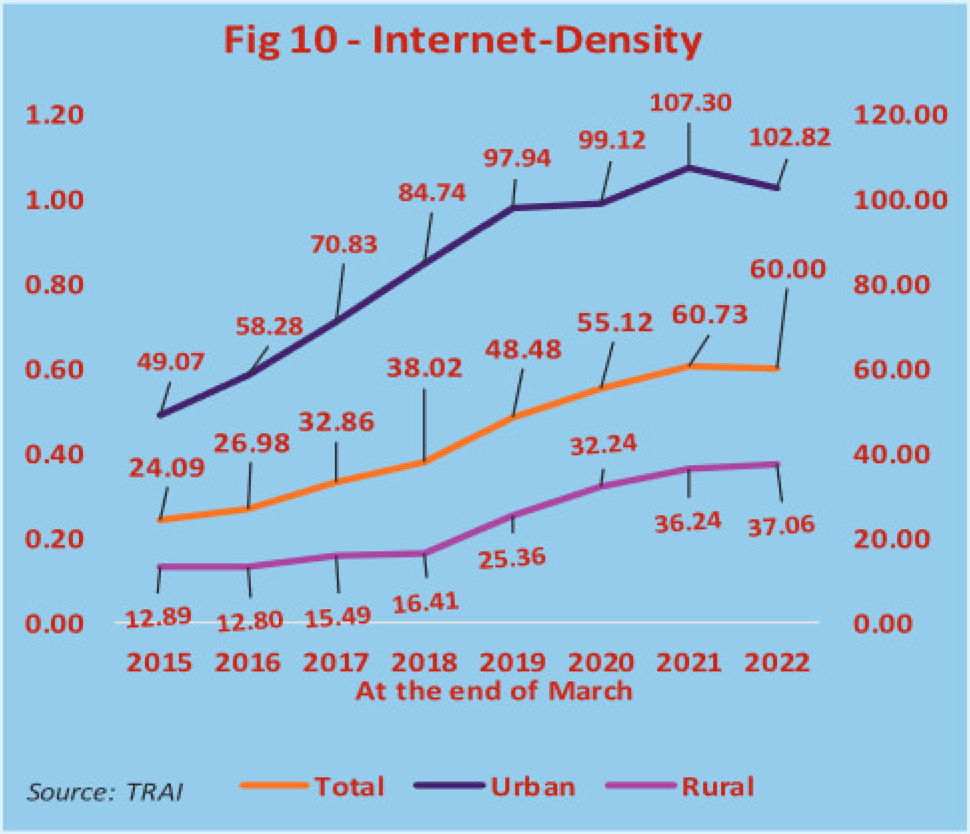


Table 1.11 - Total Internet Connections - Rural & Urban (In Million) (2014-2022)

At the end of March	Rural	Urban	Total
2014	-	-	**251.58**
2015	107.56	194.77	**302.33**
2016	111.95	230.71	**342.66**
2017	136.52	285.68	**422.19**
2018	145.83	348.13	**493.96**
2019	227.01	409.72	**636.73**
2020	285.97	457.22	**743.19**
2021	322.77	502.53	**825.30**
2022	331.81	493.08	**824.89**

Source: TRAI

Table 1.12 - Total Wireless Internet Connections - Rural & Urban (In Million) (2014-2022)

At the end of March	Rural	Urban	Total
2014	-	-	**233.09**
2015	105.75	177.53	**283.28**
2016	110.08	212.13	**322.21**
2017	134.57	266.04	**400.62**
2018	143.89	328.83	**472.71**
2019	225.12	389.93	**615.05**
2020	284.24	436.53	**720.77**
2021	320.96	478.35	**799.31**
2022	NA	NA	**797.62**

Source: TRAI

Table 1.13 - Total Broadband Connections - Rural & Urban (In Million) (2014-2022)

At the end of March	Rural	Urban	Total
2014	-	-	**60.87**
2015	21.32	77.87	**99.19**
2016	33.29	116.46	**149.75**
2017	71.06	205.45	**276.52**
2018	106.52	306.07	**412.59**
2019	190.03	373.28	**563.31**
2020	258.61	428.83	**687.44**
2021	298.21	479.88	**778.09**
2022	314.30	473.99	**788.30**

Source: TRAI

Table 1.14 - Total Wireless Broadband Connections - Rural & Urban (In Million) (2014-2022)

At the end of March	Rural	Urban	Total
2014	-	-	**46.02**
2015	20.06	63.62	**83.68**
2016	31.98	100.79	**132.77**
2017	69.68	188.59	**258.27**
2018	105.14	289.51	**394.65**
2019	188.69	356.20	**544.89**
2020	257.42	410.84	**668.26**
2021	298.21	457.13	**755.35**
2022	NA	NA	**761.05**

Source: TRAI

Table 1.15 - Service area wise Total Internet subscriptions (In Million)

Service area	2022			2021			2020			2019			2018			2017			2016			2015			2014
	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Total
Andhra Pradesh	27.13	34.92	**62.05**	28.08	36.14	**64.22**	25.51	33.14	**58.65**	19.94	29.34	**49.29**	12.83	24.78	37.61	12.10	19.71	31.80	9.13	15.74	24.87	8.14	13.96	22.10	17.63
Assam	9.68	6.30	**15.98**	9.69	6.52	**16.21**	8.31	5.93	**14.24**	5.68	5.85	**11.53**	5.04	4.77	9.81	4.25	3.82	8.07	3.22	3.54	6.76	3.25	2.23	5.48	4.11
Bihar	37.34	21.36	**58.70**	34.62	20.79	**55.42**	30.53	17.86	**48.39**	22.62	16.72	**39.34**	13.51	14.90	28.40	11.91	12.19	24.10	8.87	10.76	19.63	7.94	8.64	16.58	11.85
Delhi	0.80	45.92	**46.72**	0.76	44.20	**44.96**	0.75	40.24	**40.99**	0.70	35.16	**35.86**	0.72	30.42	31.14	0.69	26.10	26.79	0.94	19.65	20.59	1.02	17.47	18.49	15.73
Gujarat	16.52	34.99	**51.51**	15.47	35.08	**50.55**	13.67	31.64	**45.31**	11.44	28.75	**40.18**	8.26	23.16	31.43	8.26	19.04	27.30	6.05	15.05	21.10	6.46	12.99	19.45	19.15
Haryana	8.07	10.37	**18.44**	7.69	10.86	**18.55**	6.81	10.37	**17.18**	5.54	9.35	**14.90**	3.80	5.25	9.05	3.65	5.99	9.63	2.97	4.59	7.56	3.15	3.98	7.13	5.40
Himachal Pradesh	3.89	2.38	**6.27**	4.25	2.47	**6.72**	3.79	2.21	**6.00**	3.21	1.96	**5.17**	2.04	4.90	6.94	2.10	1.66	3.76	1.75	1.27	3.02	1.63	0.95	2.58	2.05
Jammu & Kashmir	3.90	4.73	**8.63**	3.64	4.72	**8.36**	3.45	4.23	**7.68**	2.57	4.03	**6.60**	1.92	3.89	5.81	1.87	2.64	4.51	1.85	1.80	3.65	1.81	1.57	3.38	2.77
Karnataka	17.45	30.64	**48.09**	17.94	32.15	**50.09**	17.01	28.82	**45.83**	11.93	28.47	**40.39**	6.69	25.45	32.14	6.37	20.50	26.87	5.54	17.09	22.63	5.31	14.74	20.05	15.49
Kerala	14.32	16.10	**30.42**	12.46	17.95	**30.42**	10.75	15.79	**26.54**	10.04	14.67	**24.71**	7.49	12.31	19.80	6.72	9.83	16.55	5.58	9.02	14.60	5.93	7.04	12.97	10.89
Kolkata	1.21	16.55	**17.76**	1.44	17.68	**19.11**	1.42	15.99	**17.41**	1.53	14.13	**15.66**	1.00	12.35	13.35	0.76	10.90	11.66	0.55	8.71	9.26	0.44	7.57	8.01	6.41
Madhya Pradesh	23.64	33.18	**56.82**	22.63	32.79	**55.42**	19.75	28.97	**48.72**	15.69	25.71	**41.40**	6.94	18.94	25.88	7.70	17.07	24.77	6.25	14.16	20.41	5.70	10.86	16.56	15.58
Maharashtra	29.94	41.20	**71.14**	28.88	42.24	**71.13**	25.16	37.85	**63.01**	20.21	33.26	**53.47**	12.79	26.66	39.45	11.75	24.20	35.94	9.75	19.72	29.47	9.19	16.39	25.58	25.60
Mumbai	1.02	28.86	**29.88**	1.89	30.41	**32.30**	1.53	28.77	**30.30**	1.21	25.63	**26.85**	0.75	21.72	22.48	0.50	19.06	19.57	0.28	15.37	15.65	0.25	14.25	14.50	14.62
North East	4.65	4.36	**9.01**	4.65	4.41	**9.06**	3.97	4.00	**7.97**	2.78	3.92	**6.70**	2.38	3.56	5.94	2.22	2.53	4.75	1.97	2.09	4.06	1.91	1.64	3.55	3.00
Orissa	13.69	7.20	**20.89**	13.94	7.66	**21.60**	12.36	6.91	**19.27**	9.64	6.17	**15.81**	5.67	6.54	12.20	4.93	5.58	10.51	3.36	4.93	8.29	3.52	3.77	7.29	5.10
Punjab	8.78	17.71	**26.49**	9.16	19.34	**28.50**	8.43	17.70	**26.13**	7.13	16.45	**23.58**	4.58	14.05	18.63	4.67	11.97	16.65	4.71	8.75	13.46	4.83	8.09	12.92	10.12
Rajasthan	21.17	23.18	**44.35**	21.47	23.93	**45.40**	20.02	22.48	**42.50**	15.57	20.40	**35.97**	9.47	16.99	26.46	8.71	12.84	21.55	7.00	10.24	17.24	7.30	8.45	15.75	12.52
Tamil Nadu	15.47	40.43	**55.90**	15.26	41.46	**56.73**	13.82	37.82	**51.64**	11.37	34.11	**45.48**	9.31	30.26	39.57	8.08	24.24	32.32	6.85	21.16	28.01	6.50	17.63	24.13	20.42
UP (East)	35.20	28.32	**63.52**	33.57	27.87	**61.44**	28.91	25.68	**54.59**	22.81	22.16	**44.97**	14.46	20.29	34.75	13.41	15.18	28.58	11.22	11.25	22.47	10.65	9.72	20.37	14.14
UP (West)	17.57	25.45	**43.02**	16.49	25.25	**41.74**	13.34	24.46	**37.80**	11.90	20.15	**32.06**	7.03	16.75	23.79	7.10	12.83	19.93	6.48	10.06	16.54	5.67	8.41	14.08	10.19
West Bengal	20.36	18.92	**39.28**	18.78	18.62	**37.39**	16.65	16.35	**33.00**	13.49	13.33	**26.83**	9.14	10.17	19.31	8.80	7.78	16.58	7.64	5.74	13.38	6.90	4.39	11.29	8.82
Total	**331.81**	**493.08**	**824.89**	**322.77**	**502.53**	**825.30**	**285.94**	**457.21**	**743.15**	**227.01**	**409.72**	**636.73**	**145.82**	**348.12**	**493.95**	**136.52**	**285.68**	**422.19**	**111.95**	**230.71**	**342.66**	**107.56**	**194.77**	**302.33**	**251.58**

Source: TRAI

Table 1.16 - Service area wise Broadband subscriptions (In Million)

Service area	2022			2021			2020			2019			2018			2017			2016			2015			2014
	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Total
Andhra Pradesh	25.68	33.54	**59.22**	26.37	34.49	**60.86**	23.46	31.29	**54.75**	17.32	26.94	**44.26**	10.28	21.78	32.06	7.44	13.63	21.07	3.44	7.74	11.18	2.08	5.45	7.53	4.79
Assam	9.19	6.11	**15.30**	9.08	6.22	**15.30**	7.68	5.57	**13.25**	4.94	5.11	**10.05**	3.12	4.14	7.26	1.87	2.97	4.84	0.85	1.98	2.83	0.52	0.76	1.28	0.62
Bihar	35.09	20.69	**55.78**	31.65	19.68	**51.33**	27.29	16.65	**43.94**	18.56	14.57	**33.14**	8.36	12.16	20.52	4.37	7.66	12.03	1.95	3.87	5.82	1.2	1.95	3.15	2.1
Delhi	0.53	41.10	**41.63**	0.65	41.09	**41.74**	0.57	37.34	**37.91**	0.49	32.60	**33.09**	0.48	26.87	27.35	0.4	20.4	20.8	0.45	11.52	11.97	0.4	8.69	9.09	6.43
Gujarat	16.02	34.34	**50.36**	14.72	34.13	**48.85**	12.69	30.39	**43.08**	9.89	26.95	**36.85**	6.91	21.14	28.05	4.8	13.66	18.46	1.95	7.82	9.77	1.38	5.5	6.88	4.14
Haryana	7.75	9.96	**17.71**	7.31	10.41	**17.72**	6.36	9.84	**16.20**	4.88	8.58	**13.46**	3.25	4.75	8	2.37	4.5	6.87	0.89	2.32	3.21	0.57	1.68	2.25	1.04
Himachal Pradesh	3.80	2.30	**6.10**	4.09	2.33	**6.41**	3.60	2.05	**5.65**	2.90	1.73	**4.63**	1.62	4.64	6.26	1.28	1.08	2.36	0.73	0.46	1.19	0.45	0.29	0.74	0.42
Jammu & Kashmir	3.74	4.63	**8.37**	3.35	4.55	**7.90**	3.09	4.04	**7.13**	2.17	3.74	**5.90**	1.13	3.41	4.55	0.91	1.87	2.78	0.68	0.69	1.37	0.36	0.5	0.86	0.53
Karnataka	16.40	29.43	**45.83**	16.64	30.75	**47.38**	15.24	27.09	**42.33**	10.11	26.38	**36.49**	4.9	22.99	27.89	3.63	15.95	19.59	1.92	10.26	12.18	1.39	6.97	8.36	4.87
Kerala	13.77	15.62	**29.39**	11.81	17.08	**28.89**	10.03	14.81	**24.84**	8.98	13.44	**22.42**	6.6	11.15	17.75	4.99	7.61	12.61	2.88	5.26	8.14	2.31	3.56	5.87	3.55
Kolkata	1.17	15.91	**17.08**	1.34	16.51	**17.85**	1.35	14.77	**16.12**	1.37	12.63	**14.00**	0.87	10.54	11.41	0.6	7.66	8.26	0.3	4.1	4.4	0.21	2.67	2.88	1.86
Madhya Pradesh	22.46	32.37	**54.83**	20.90	31.22	**52.11**	17.59	27.11	**44.70**	12.27	23.11	**35.37**	4.57	16.46	21.03	2.99	12.04	15.04	1.06	6.77	7.83	0.43	4.16	4.59	2.65
Maharashtra	28.62	40.15	**68.77**	27.19	40.38	**67.56**	22.90	35.41	**58.31**	17.03	30.19	**47.22**	10.62	24.07	34.69	6.68	16.68	23.36	3.17	10.64	13.81	1.86	7.44	9.3	5.28
Mumbai	1.01	27.42	**28.43**	1.82	28.53	**30.35**	1.47	26.55	**28.02**	1.11	23.02	**24.12**	0.63	19.07	19.7	0.36	14.52	14.88	0.12	8.77	8.89	0.1	7.07	7.17	5.19
North East	4.49	4.25	**8.74**	4.41	4.23	**8.64**	3.67	3.77	**7.44**	2.42	3.51	**5.93**	1.53	3.03	4.56	1.13	1.79	2.91	0.62	0.98	1.6	0.39	0.58	0.97	0.65
Orissa	13.14	7.01	**20.15**	13.08	7.39	**20.47**	11.18	6.52	**17.70**	8.00	5.60	**13.59**	3.73	5.4	9.14	2.07	3.94	6.01	0.65	2.25	2.9	0.41	1.09	1.5	1.2
Punjab	8.44	17.18	**25.62**	8.70	18.64	**27.35**	7.83	16.77	**24.60**	6.31	15.35	**21.67**	3.54	12.85	16.39	2.64	9.12	11.76	1.12	4.06	5.18	0.62	2.78	3.4	1.55
Rajasthan	20.27	22.42	**42.69**	20.08	22.78	**42.86**	18.35	21.15	**39.50**	13.18	18.61	**31.79**	6.61	14.46	21.07	4.25	8.48	12.72	1.85	3.87	5.72	1.42	2.63	4.05	2.28
Tamil Nadu	14.64	39.03	**53.67**	13.68	39.78	**53.45**	12.27	35.24	**47.51**	9.75	31.20	**40.95**	7.37	26.05	33.41	5.42	17.35	22.77	3.32	11.56	14.88	2.26	7.56	9.82	6.51
UP (East)	32.61	27.39	**60.00**	30.33	26.53	**56.87**	25.30	24.17	**49.47**	17.90	19.75	**37.65**	9.03	17.18	26.21	5.54	9.55	15.08	1.81	3.99	5.8	0.96	2.29	3.25	1.77
UP (West)	16.54	24.63	**41.17**	15.30	24.14	**39.43**	12.04	22.87	**34.91**	9.51	18.21	**27.72**	4.71	14.86	19.57	2.7	8.71	11.41	1.32	4.02	5.34	0.7	2.76	3.46	1.89
West Bengal	18.96	18.53	**37.49**	17.00	17.78	**34.77**	14.63	15.42	**30.05**	10.95	12.07	**23.02**	6.65	9.07	15.72	4.63	6.28	10.9	2.21	3.51	5.72	1.23	1.48	2.71	1.53
Total	**314.30**	**473.99**	**788.30**	**299.48**	**478.61**	**778.09**	**258.59**	**428.82**	**687.41**	**190.03**	**373.28**	**563.31**	**106.52**	**306.07**	**412.59**	**71.06**	**205.45**	**276.52**	**33.29**	**116.46**	**149.75**	**21.32**	**77.87**	**99.19**	**60.87**

Source: TRAI

Table 1.17 - Service area wise Broadband (Wireline & Wireless) subscriptions (In Million)

Service area	2021			2020			2019			2018			2017			2016			2015			2014
	Wireline	Wireless	Total	Wireline	Wireless	Total	Wireline	Wireless	Total	Wireline	Wireless	Total	Wireline	Wireless	Total	Wireline	Wireless	Total	Wireline	Wireless	Total	Total
Andhra Pradesh	2.71	58.15	**60.86**	2.40	52.36	**54.76**	2.28	41.98	**44.26**	2.15	29.91	32.06	2.11	18.96	21.07	1.93	9.25	11.18	1.81	5.72	7.53	4.79
Assam	0.10	15.20	**15.30**	0.09	13.15	**13.24**	0.08	9.96	**10.05**	0.09	7.17	7.26	0.10	4.74	4.84	0.1	2.73	2.83	0.1	1.18	1.28	0.62
Bihar	0.29	51.04	**51.33**	0.23	43.72	**43.95**	0.22	32.92	**33.14**	0.22	20.30	20.52	0.23	11.80	12.03	0.23	5.59	5.82	0.22	2.93	3.15	2.1
Delhi	2.52	39.22	**41.74**	2.10	35.81	**37.91**	1.83	31.25	**33.09**	1.75	25.60	27.35	1.69	19.12	20.8	1.37	10.6	11.97	1.15	7.94	9.09	6.43
Gujarat	1.68	47.17	**48.85**	1.44	41.64	**43.08**	1.39	35.46	**36.85**	1.30	26.75	28.05	1.29	17.17	18.46	1.15	8.62	9.77	0.93	5.95	6.88	4.14
Haryana	0.36	17.37	**17.72**	0.35	15.85	**16.20**	0.35	13.10	**13.46**	0.37	7.63	8	0.37	6.50	6.87	0.36	2.85	3.21	0.34	1.91	2.25	1.04
Himachal Pradesh	0.07	6.35	**6.41**	0.09	5.57	**5.66**	0.09	4.54	**4.63**	0.10	6.16	6.26	0.10	2.26	2.36	0.09	1.1	1.19	0.09	0.65	0.74	0.42
Jammu & Kashmir	0.20	7.70	**7.90**	0.10	7.03	**7.13**	0.08	5.82	**5.90**	0.09	4.45	4.55	0.09	2.69	2.78	0.09	1.28	1.37	0.09	0.77	0.86	0.53
Karnataka	2.16	45.22	**47.38**	1.94	40.40	**42.34**	1.82	34.67	**36.49**	1.77	26.12	27.89	1.76	17.83	19.59	1.64	10.54	12.18	1.47	6.89	8.36	4.87
Kerala	1.48	27.41	**28.89**	1.25	23.59	**24.84**	1.37	21.06	**22.42**	1.34	16.40	17.75	1.34	11.27	12.61	1.28	6.86	8.14	1.21	4.66	5.87	3.55
Kolkata	0.81	17.04	**17.85**	0.65	15.47	**16.12**	0.60	13.40	**14.00**	0.59	10.82	11.41	0.62	7.65	8.26	0.53	3.87	4.4	0.44	2.44	2.88	1.86
Madhya Pradesh	0.76	51.36	**52.11**	0.65	44.06	**44.71**	0.75	34.63	**35.37**	0.72	20.31	21.03	0.76	14.28	15.04	0.7	7.13	7.83	0.65	3.94	4.59	2.65
Maharashtra	1.99	65.57	**67.56**	1.58	56.73	**58.31**	1.54	45.68	**47.22**	1.46	33.23	34.69	1.48	21.87	23.36	1.39	12.42	13.81	1.29	8.01	9.3	5.28
Mumbai	1.70	28.66	**30.35**	1.43	26.59	**28.02**	1.24	22.89	**24.12**	1.20	18.50	19.7	1.30	13.58	14.88	1.34	7.55	8.89	1.21	5.96	7.17	5.19
North East	0.09	8.55	**8.64**	0.08	7.36	**7.44**	0.07	5.86	**5.93**	0.07	4.49	4.56	0.07	2.84	2.91	0.06	1.54	1.6	0.06	0.91	0.97	0.65
Orissa	0.28	20.19	**20.47**	0.22	17.48	**17.70**	0.22	13.37	**13.59**	0.28	8.86	9.14	0.28	5.73	6.01	0.27	2.63	2.9	0.24	1.26	1.5	1.2
Punjab	1.01	26.34	**27.35**	0.81	23.78	**24.59**	0.82	20.84	**21.67**	0.81	15.57	16.39	0.93	10.83	11.76	0.89	4.29	5.18	0.82	2.58	3.4	1.55
Rajasthan	0.60	42.26	**42.86**	0.53	38.97	**39.50**	0.51	31.28	**31.79**	0.50	20.57	21.07	0.55	12.18	12.72	0.52	5.2	5.72	0.49	3.56	4.05	2.28
Tamil Nadu	2.43	51.02	**53.45**	2.14	45.37	**47.51**	2.08	38.87	**40.95**	2.07	31.35	33.41	2.10	20.67	22.77	1.96	12.92	14.88	1.86	7.96	9.82	6.51
UP (East)	0.58	56.29	**56.87**	0.45	49.02	**49.47**	0.45	37.21	**37.65**	0.42	25.79	26.21	0.42	14.66	15.08	0.4	5.4	5.8	0.39	2.86	3.25	1.77
UP (West)	0.53	38.90	**39.43**	0.40	34.51	**34.91**	0.38	27.33	**27.72**	0.40	19.17	19.57	0.40	11.01	11.41	0.39	4.95	5.34	0.36	3.1	3.46	1.89
West Bengal	0.41	34.36	**34.77**	0.26	29.79	**30.05**	0.25	22.77	**23.02**	0.25	15.47	15.72	0.26	10.64	10.9	0.27	5.45	5.72	0.24	2.47	2.71	1.53
Total	**22.75**	**755.35**	**778.09**	**19.19**	**668.25**	**687.44**	**18.42**	**544.89**	**563.31**	**17.95**	**394.65**	**412.59**	**18.24**	**258.27**	**276.52**	**16.98**	**132.77**	**149.75**	**15.51**	**83.68**	**99.19**	**60.87**

Source: TRAI

Table 1.18 - Service area wise Wireless internet subscriptions (In Million)

Service area	2021			2020			2019			2018			2017			2016			2015			2014
	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Rural	Urban	Total	Total
Andhra Pradesh	27.96	33.35	**61.31**	25.35	30.71	**56.06**	19.78	27.04	**46.81**	12.67	22.60	35.26	11.93	17.56	29.49	8.95	13.77	22.72	7.93	12.13	20.06	15.79
Assam	9.69	6.41	**16.09**	8.30	5.84	**14.14**	5.67	5.76	**11.44**	5.03	4.68	9.71	4.24	3.72	7.96	3.21	3.44	6.65	3.24	2.13	5.37	4.00
Bihar	34.61	20.46	**55.07**	30.51	17.60	**48.11**	22.60	16.46	**39.06**	13.49	14.64	28.13	11.89	11.92	23.81	8.85	10.49	19.34	7.92	8.38	16.30	11.57
Delhi	0.76	41.68	**42.44**	0.75	38.14	**38.89**	0.69	33.32	**34.02**	0.72	28.67	29.38	0.69	24.41	25.10	0.94	18.21	19.15	1.02	16.26	17.28	14.60
Gujarat	15.17	33.52	**48.70**	13.44	30.26	**43.70**	11.23	27.39	**38.62**	8.06	21.87	29.93	8.05	17.75	25.80	5.87	13.88	19.75	6.35	11.97	18.32	17.99
Haryana	7.65	10.45	**18.10**	6.76	9.98	**16.74**	5.50	8.95	**14.45**	3.75	4.83	8.58	3.59	5.58	9.17	2.92	4.19	7.11	3.10	3.60	6.70	4.97
Himachal Pradesh	4.24	2.39	**6.63**	3.78	2.11	**5.89**	3.19	1.87	**5.05**	2.02	4.80	6.82	2.08	1.56	3.64	1.74	1.18	2.92	1.62	0.86	2.48	1.94
Jammu & Kashmir	3.63	4.51	**8.13**	3.43	4.12	**7.55**	2.56	3.93	**6.49**	1.90	3.79	5.69	1.86	2.54	4.39	1.83	1.70	3.53	1.79	1.47	3.26	2.67
Karnataka	17.82	29.90	**47.72**	16.88	26.80	**43.68**	11.83	26.54	**38.36**	6.59	23.57	30.16	6.26	18.64	24.90	5.43	15.35	20.78	5.20	13.16	18.36	13.84
Kerala	12.10	16.46	**28.56**	10.46	14.46	**24.92**	9.47	13.49	**22.96**	6.92	11.16	18.08	6.13	8.69	14.83	5.01	7.92	12.93	5.39	5.98	11.37	9.31
Kolkata	1.40	16.55	**17.95**	1.39	15.01	**16.40**	1.53	13.18	**14.70**	1.00	11.40	12.40	0.76	9.93	10.69	0.55	7.83	8.38	0.44	6.74	7.18	5.55
Madhya Pradesh	22.58	31.79	**54.37**	19.69	28.09	**47.78**	15.65	24.71	**40.37**	6.90	17.98	24.89	7.65	16.07	23.73	6.21	13.21	19.42	5.66	9.96	15.62	14.67
Maharashtra	28.66	40.16	**68.81**	24.97	36.15	**61.12**	20.04	31.57	**51.61**	12.60	25.07	37.67	11.60	22.53	34.12	9.61	18.14	27.75	9.05	14.91	23.96	24.02
Mumbai	1.89	28.71	**30.60**	1.53	27.33	**28.86**	1.21	24.38	**25.59**	0.72	20.54	21.27	0.50	17.74	18.24	0.28	13.98	14.26	0.25	12.97	13.22	13.40
North East	4.63	4.28	**8.91**	3.95	3.88	**7.83**	2.76	3.80	**6.56**	2.36	3.45	5.80	2.20	2.41	4.61	1.95	1.98	3.93	1.89	1.53	3.42	2.88
Orissa	13.91	7.37	**21.28**	12.34	6.68	**19.02**	9.61	5.94	**15.55**	5.63	6.25	11.89	4.89	5.30	10.19	3.33	4.64	7.97	3.49	3.51	7.00	4.81
Punjab	9.07	18.20	**27.27**	8.33	16.77	**25.10**	6.99	15.55	**22.54**	4.44	13.15	17.59	4.53	10.97	15.50	4.56	7.77	12.33	4.68	7.18	11.86	9.10
Rajasthan	21.43	23.14	**44.58**	19.97	21.78	**41.75**	15.53	19.71	**35.24**	9.43	16.30	25.74	8.66	12.10	20.77	6.96	9.53	16.49	7.26	7.77	15.03	11.78
Tamil Nadu	15.08	38.90	**53.98**	13.64	35.53	**49.17**	11.19	31.88	**43.08**	9.14	28.05	37.18	7.89	22.01	29.90	6.67	19.06	25.73	6.32	15.62	21.94	18.25
UP (East)	33.52	27.27	**60.79**	28.86	25.22	**54.08**	22.77	21.69	**44.46**	14.42	19.84	34.26	13.37	14.73	28.09	11.18	10.82	22.00	10.61	9.30	19.91	13.68
UP (West)	16.46	24.60	**41.06**	13.31	23.96	**37.27**	11.89	19.65	**31.54**	7.02	16.24	23.25	7.08	12.32	19.39	6.46	9.55	16.01	5.65	7.93	13.58	9.69
West Bengal	18.70	18.25	**36.95**	16.58	16.13	**32.71**	13.43	13.12	**26.55**	9.07	9.97	19.04	8.73	7.56	16.29	7.59	5.49	13.08	6.86	4.15	11.01	8.60
Total	**320 96**	**478 35**	**799 31**	**284 22**	**436 55**	**720 77**	**225 12**	**389 93**	**615 05**	**143 89**	**328 83**	**472 71**	**134 57**	**266 04**	**400 62**	**110 08**	**212 13**	**322 21**	**105 75**	**177 53**	**283 28**	**233 09**

Source: TRAI

Table- 1.19 - Internet Subscriber Base and Market Share of top 10 Service Providers

Service Providers	No. of Internet Subscribers March 2021	Share (%)	Service Providers	No. of Internet Subscribers March 2022	Share (%)
Reliance Jio Infocomm Ltd	425513757	51.56	Reliance Jio Infocomm Ltd	409276307	49.62
Bharti Airtel Ltd.	216303928	26.21	Bharti Airtel Ltd.	235654600	28.57
Vodafone Idea Limited	139867046	16.95	Vodafone Idea Limited	135707574	16.45
Bharat Sanchar Nigam Ltd.	32450142	3.93	Bharat Sanchar Nigam Ltd.	30087236	3.65
Atria Convergence Technologies Pvt. Ltd.	1848966	0.22	Atria Convergence Technologies Pvt. Ltd.	2075908	0.25
Hathway Cable & Datacom Pvt. Ltd.	1074356	0.13	Hathway Cable & Datacom Pvt. Ltd.	1110240	0.13
You Broadband India Pvt. Ltd.	827009	0.10	ONEOTT iNTERTAINMENT LTD.	1011144	0.12
Mahanagar Telephone Nigam Ltd.	765188	0.09	You Broadband India Pvt. Ltd.	844114	0.10
ONEOTT iNTERTAINMENT LTD.	616221	0.07	GTPL Broadband Pvt. Ltd.	749415	0.09
GTPL Broadband Pvt. Ltd.	563353	0.07	Mahanagar Telephone Nigam Ltd.	670569	0.08
Total of Top 10 ISPs	**819829966**	**99.34**	**Total of Top 10 ISPs**	**817187107**	**99.07**
Others	**5471417**	**0.66**	**Others**	**7701060**	**0.93**
Grand Total	**825301383**	**100.00**	**Grand Total**	**824888167**	**100.00**

Source- Quarterly Performance Indicator Reports of TRAI.

2 – Telecom Usage Parameters

Table 2.1 - Telecom Usage Parameters (2007-2022)

Year	Traffic (MOU) (minutes of use /subscriber /month) Minutes #		Minutes of Usages for Internet Telephony (Million)#
	GSM	CDMA	
2007	471	471	NA
2008	493	364	NA
2009	484	357	131.63
2010	410	307	122.96
2011	349	263	153.92
2012	346	229	236.40
2013	383	275	249.75
2014	389	272	251.00
2015	383	265	245.00
2016	381	260	277.00
2017	405	250	258.00
2018	584	60	258.00
2019	692		197.00
2020	750		181.34
2021	818		174.89
2022	955		137.74

Source- #Quarterly Performance Indicator Reports of TRAI, January-March 2022.

Table 2.2 - Category-wise Minute of Usage (MOUs) per subscriber per month -2020

Segment	MOUs	Year	Circle A	Circle B	Circle C	Metros	All India
Postpaid	Outgoing MOUs	**2020**	348.80	338.54	387.94	287.67	332.02
		2021	301.64	307.44	400.39	240.64	299.36
	Incoming MOUs	**2020**	309.96	314.14	394.20	231.07	295.93
		2021	272.68	284.06	354.75	194.46	264.10
	Total MOUs	**2020**	**658.76**	**652.67**	**782.14**	**518.75**	**627.95**
		2021	**574.33**	**591.50**	**755.14**	**435.10**	**563.46**
Prepaid	Outgoing MOUs	**2020**	346.59	372.57	443.02	445.51	380.95
		2021	386.41	412.87	507.33	480.77	424.10
	Incoming MOUs	**2020**	337.44	384.20	476.17	406.69	384.36
		2021	375.40	423.61	542.12	442.69	427.08
	Total MOUs	**2020**	**684.03**	**756.77**	**919.19**	**852.19**	**765.31**
		2021	**761.81**	**836.48**	**1049.45**	**923.46**	**851.18**
Blended	Outgoing MOUs	**2020**	346.70	371.88	440.71	420.70	378.65
		2021	381.21	409.53	501.19	436.46	416.57
	Incoming MOUs	**2020**	336.10	382.79	472.74	379.08	380.21
		2021	369.10	419.18	531.37	396.89	417.23
	Total MOUs	**2020**	**682.80**	**754.67**	**913.45**	**799.78**	**758.86**
		2021	**750.31**	**828.71**	**1032.56**	**833.35**	**833.80**

Note: Categories assigned to circles' have been defined in Annexure-II

Source: TRAI, Yearly Performance Indicators of Indian Telecom Sector - 2021. Year=Calendar Year

Table 2.3 - Wireless Data usage (in million GB per Year)

Year Ending	2G Data Usage	3G Data Usage	4G Data Usage	CDMA Data Usage	Total Volume of Data Usage
2015	479	700		196	1375
2016	477	1221	2775	169	4642
2017	423	3187	16426	56	20092
2018	443	5654	40304	3	46404
2019	488	4705	71125	-	76319
2020	669	3055	99798	-	103522
2021	589	2261	132808	-	135657
2022 $	86	471	35328	-	35885

Source- Yearly Performance Indicator Reports of TRAI, Calender Year figures
$- figures for the quarter ending march 2022

Table 2.4 - Average Wireless Data usage (in GB) per data user per month

Year Ending	2G Data Usage	3G Data Usage	4G Data Usage	CDMA Data Usage	GSMA Data Usage	Total Wireless Data Usage
2014	0.14	0.62		1.72	0.23	0.27
2015	0.20	0.75		2.53	0.35	0.41
2016	0.23	0.79	12.42	2.31	1.16	1.14
2017	0.30	2.29	7.95	3.67	4.13	4.11
2018	0.54	5.26	9.73	2.15	7.69	7.60
2019	0.64	7.05	11.26	0.00	9.85	9.85
2020	1.16	8.26	12.71	0.00	11.77	11.76
2021	1.20	8.38	14.92	0.00	14.04	14.04
2022 $	-	-	-	-	-	15.80

Source- Yearly Performance Indicator Reports of TRAI, Calender Year figures
$- figures for the quarter ending march 2022

Table 2.5 - Category-wise average number of outgoing SMS per subscriber per month - 2021

Category	Postpaid		Prepaid		Blended	
	2020	2021	2020	2021	2020	2021
Circle A	43	41	16	14	18	16
Circle B	42	31	13	12	14	13
Circle C	23	17	18	18	18	17
Metro	27	36	12	12	15	16
All India	**35**	**34**	**15**	**14**	**16**	**15**

Source: TRAI, Yearly Performance Indicators of Indian Telecom Sector - 2021.

3 – Service Area Wise Performance

(The geographical areas covered under telecom 'service areas' are given at ***Annexure-I****)*

Service Area wise Subscribers : Overall

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	300.49	39.41	261.08	76.50	223.99	79.55	220.94
2009	429.73	37.96	391.76	123.51	306.21	89.55	340.18
2010	621.28	36.96	584.32	200.77	420.51	105.87	515.41
2011	846.33	34.73	811.60	282.29	564.04	126.00	720.33
2012	951.35	32.17	919.17	330.83	620.52	130.27	821.08
2013	898.02	30.21	867.81	349.21	548.80	130.11	767.91
2014	933.02	28.50	904.52	377.78	555.23	120.05	812.96
2015	996.13	26.59	969.54	416.08	580.05	100.34	895.79
2016	1059.33	25.22	1034.11	447.77	611.56	108.65	950.68
2017	1194.99	24.40	1170.59	501.81	693.18	122.18	1072.81
2018	1211.80	22.81	1188.99	525.87	685.93	131.66	1080.14
2019	1183.41	21.70	1161.71	514.27	669.14	133.51	1049.90
2020	1176.79	19.13	1157.67	521.26	655.54	134.97	1041.82
2021	1200.88	20.24	1180.64	537.11	663.76	131.16	1069.72
2022	1166.84	24.82	1142.02	519.63	647.21	127.10	1039.74
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	26.22	3.44	22.78	9.46	66.39	6.94	19.28
2009	36.98	3.27	33.71	15.11	88.84	7.71	29.27
2010	52.74	3.14	49.60	24.31	119.45	8.99	43.75
2011	70.89	2.91	67.98	33.83	156.93	10.55	60.34
2012	78.66	2.66	76.00	39.26	169.17	10.77	67.89
2013	73.32	2.47	70.85	41.05	146.64	10.62	62.69
2014	75.23	2.30	72.94	44.01	145.46	9.68	65.55
2015	79.36	2.12	77.24	48.04	149.04	7.99	71.36
2016	83.40	1.99	81.41	51.26	154.18	8.55	74.85
2017	93.01	1.90	91.11	56.98	171.52	9.51	83.50
2018	93.27	1.76	91.51	59.25	166.64	10.13	83.14
2019	90.10	1.65	88.45	57.50	159.66	10.16	79.94
2020	88.66	1.44	87.22	57.87	153.68	10.17	78.49
2021	88.15	1.49	86.66	60.17	141.29	9.63	78.52

3.1 - Andhra Pradesh

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	23.29	2.71	20.58	6.23	17.06	4.93	18.36
2009	32.95	2.55	30.40	9.17	23.78	5.66	27.29
2010	48.09	2.46	45.62	14.78	33.30	6.62	41.46
2011	63.05	2.37	60.68	20.66	42.39	9.31	53.74
2012	69.19	2.36	66.83	24.23	44.95	10.99	58.20
2013	66.60	2.24	64.36	26.06	40.55	11.23	55.37
2014	69.19	2.04	67.15	28.58	40.61	11.58	57.62
2015	73.82	1.87	71.95	31.02	42.80	11.10	62.72
2016	76.39	1.74	74.65	32.73	43.66	10.99	65.39
2017	86.58	1.64	84.94	38.73	47.85	11.14	75.44
2018	87.24	1.48	85.76	39.65	47.59	11.18	76.06
2019	88.17	1.44	86.73	42.24	45.93	11.13	77.04
2020	89.07	1.22	87.86	43.21	45.86	10.63	78.44
2021	90.14	1.41	88.73	44.88	45.26	10.25	79.89
2022	85.12	1.99	83.12	41.52	43.59	9.99	75.12
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	7.75	6.88	7.88	8.15	7.61	6.20	8.31
2009	7.67	6.71	7.76	7.42	7.77	6.32	8.02
2010	7.74	6.66	7.81	7.36	7.92	6.26	8.04
2011	7.45	6.82	7.48	7.32	7.52	7.39	7.46
2012	7.27	7.34	7.27	7.33	7.24	8.44	7.09
2013	7.42	7.41	7.42	7.46	7.39	8.63	7.21
2014	7.42	7.17	7.42	7.57	7.31	9.64	7.09
2015	7.41	7.03	7.42	7.45	7.38	11.06	7.00
2016	7.21	6.88	7.22	7.31	7.14	10.12	6.88
2017	7.25	6.71	7.26	7.72	6.90	9.12	7.03
2018	7.20	6.49	7.21	7.54	6.94	8.50	7.04
2019	7.45	6.64	7.47	8.21	6.86	8.34	7.34
2020	7.57	6.35	7.59	8.29	7.00	7.88	7.53
2021	7.51	6.97	7.52	8.36	6.82	7.81	7.47
2022	7.29	8.04	7.28	7.99	6.74	7.86	7.23
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	28.25	3.29	24.96	10.44	74.97	5.98	22.27
2009	111.83	8.65	103.18	36.32	103.38	19.20	92.63
2010	57.23	2.93	54.30	24.33	143.19	7.88	49.34
2011	74.35	2.79	71.55	33.70	180.32	10.98	63.37
2012	80.87	2.76	78.11	39.21	189.25	12.85	68.03
2013	77.19	2.60	74.59	41.83	169.00	13.01	64.17
2014	79.52	2.35	77.17	45.53	167.61	13.31	66.22
2015	84.15	2.13	82.02	49.04	174.94	12.65	71.50
2016	86.40	1.96	84.43	51.36	176.81	12.43	73.96
2017	97.18	1.84	95.34	60.35	192.02	12.50	84.68
2018	97.21	1.65	95.56	61.37	189.30	12.46	84.75
2019	97.55	1.59	95.96	64.96	181.15	12.32	85.24
2020	97.88	1.34	96.55	66.05	179.35	11.69	86.19
2021	99.56	1.56	98.00	82.59	125.04	11.32	88.24
2022	93.63	2.19	91.43	76.94	118.01	10.99	82.64

3.2 - Assam

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	4.34	0.43	3.91	1.12	3.22	1.35	2.99
2009	6.16	0.35	5.81	2.39	3.77	1.32	4.84
2010	9.06	0.31	8.76	4.76	4.31	1.45	7.61
2011	11.93	0.26	11.67	6.23	5.70	1.74	10.19
2012	14.44	0.23	14.21	7.45	6.99	1.49	12.95
2013	14.58	0.19	14.39	8.25	6.33	1.43	13.15
2014	15.46	0.18	15.28	9.20	6.27	1.46	14.00
2015	17.32	0.17	17.15	10.58	6.74	1.43	15.89
2016	18.72	0.16	18.56	11.83	6.90	1.50	17.22
2017	21.99	0.16	21.84	13.81	8.19	1.69	20.30
2018	25.52	0.14	25.38	15.87	9.65	2.75	22.76
2019	23.08	0.11	22.97	11.82	11.26	2.67	20.41
2020	23.72	0.10	23.62	13.88	9.84	2.90	20.82
2021	24.85	0.13	24.72	15.68	9.17	3.12	21.74
2022	24.25	0.21	24.05	15.18	9.07	3.31	20.94
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	1.45	1.09	1.50	1.47	1.44	1.70	1.36
2009	1.43	0.92	1.48	1.93	1.23	1.48	1.42
2010	1.46	0.83	1.50	2.37	1.02	1.37	1.48
2011	1.41	0.74	1.44	2.21	1.01	1.38	1.41
2012	1.52	0.71	1.55	2.25	1.13	1.15	1.58
2013	1.62	0.64	1.66	2.36	1.15	1.10	1.71
2014	1.66	0.65	1.69	2.43	1.13	1.22	1.72
2015	1.74	0.63	1.77	2.54	1.16	1.42	1.77
2016	1.77	0.64	1.79	2.64	1.13	1.38	1.81
2017	1.84	0.64	1.87	2.75	1.18	1.38	1.89
2018	2.11	0.60	2.13	3.02	1.41	2.09	2.11
2019	1.95	0.53	1.98	2.30	1.68	2.00	1.94
2020	2.02	0.51	2.04	2.66	1.50	2.15	2.00
2021	2.07	0.66	2.09	2.92	1.38	2.38	2.03
2022	2.08	0.84	2.11	2.92	1.40	2.61	2.01
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	14.74	1.46	13.28	4.44	76.30	4.58	10.16
2009	20.65	1.18	19.47	9.36	87.00	4.44	16.21
2010	29.99	1.02	28.97	18.47	96.55	4.80	25.20
2011	38.98	0.84	38.14	23.93	124.46	5.69	33.30
2012	46.61	0.74	45.87	28.35	148.57	4.82	41.79
2013	46.51	0.62	45.89	31.13	130.91	4.56	41.95
2014	48.74	0.58	48.16	34.36	126.27	4.61	44.13
2015	53.95	0.52	53.43	39.18	132.26	4.45	49.50
2016	57.64	0.49	57.15	43.40	131.88	4.63	53.01
2017	66.97	0.47	66.50	50.25	152.63	5.14	61.83
2018	76.87	0.41	76.46	57.29	175.45	8.30	68.57
2019	68.81	0.34	68.47	42.36	199.72	7.97	60.84
2020	70.01	0.29	69.72	49.39	170.31	8.57	61.44
2021	70.86	0.38	70.48	52.82	170.52	8.88	61.98
2022	68.50	0.59	67.91	50.72	165.83	9.36	59.14

3.3 - Bihar

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	12.93	1.42	11.51	3.07	9.87	3.32	9.61
2009	22.36	1.38	20.98	8.15	14.22	4.41	17.95
2010	38.36	1.38	36.97	16.15	22.21	6.11	32.24
2011	54.74	1.20	53.54	24.41	30.32	7.16	47.57
2012	64.09	0.61	63.48	28.95	35.15	6.73	57.36
2013	60.70	0.39	60.30	31.55	29.15	6.29	54.41
2014	61.97	0.38	61.59	34.10	27.86	3.61	58.36
2015	69.67	0.36	69.31	38.91	30.77	3.16	66.51
2016	74.84	0.33	74.51	43.30	31.54	3.66	71.19
2017	84.93	0.31	84.61	48.91	36.02	4.35	80.58
2018	88.93	0.28	88.65	53.29	35.64	4.69	84.24
2019	85.31	0.23	85.08	55.81	29.50	4.78	80.53
2020	84.88	0.16	84.72	56.28	28.60	5.77	79.11
2021	86.66	0.24	86.42	56.85	29.81	5.92	80.73
2022	86.76	0.44	86.32	57.50	29.26	5.61	81.15
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	4.30	3.62	4.41	4.01	4.41	4.18	4.35
2009	5.20	3.65	5.35	6.59	4.64	4.92	5.28
2010	6.17	3.74	6.33	8.04	5.28	5.78	6.26
2011	6.47	3.44	6.60	8.65	5.38	5.69	6.60
2012	6.74	1.90	6.91	8.75	5.66	5.17	6.99
2013	6.76	1.30	6.95	9.03	5.31	4.83	7.09
2014	6.64	1.34	6.81	9.03	5.02	3.01	7.18
2015	6.99	1.35	7.15	9.35	5.30	3.15	7.42
2016	7.07	1.32	7.21	9.67	5.16	3.36	7.49
2017	7.11	1.29	7.23	9.75	5.20	3.56	7.51
2018	7.34	1.22	7.46	10.13	5.20	3.56	7.80
2019	7.21	1.05	7.32	10.85	4.41	3.58	7.67
2020	7.21	0.83	7.32	10.80	4.36	4.28	7.59
2021	7.22	1.18	7.32	10.58	4.49	4.52	7.55
2022	7.44	1.77	7.56	11.07	4.52	4.41	7.81
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	10.43	1.15	9.28	2.86	58.77	2.68	7.75
2009	17.78	1.10	16.68	7.49	83.27	3.51	14.27
2010	30.07	1.08	28.98	14.65	127.96	4.79	25.27
2011	42.32	0.92	41.40	21.86	171.97	5.54	36.78
2012	48.90	0.47	48.43	25.58	196.24	5.13	43.77
2013	45.72	0.30	45.42	27.53	160.29	4.73	40.98
2014	46.10	0.28	45.81	29.41	150.96	2.69	43.41
2015	51.20	0.26	50.94	33.16	164.26	2.33	48.88
2016	54.36	0.24	54.11	36.48	166.00	2.66	51.70
2017	60.99	0.23	60.76	40.76	186.98	3.12	57.86
2018	63.16	0.20	62.96	43.94	182.52	3.33	59.83
2019	59.95	0.16	59.79	45.55	149.09	3.36	56.59
2020	59.04	0.11	58.93	45.49	142.72	4.02	55.02
2021	53.57	0.15	53.43	41.54	119.71	3.66	49.91
2022	52.88	0.27	52.61	41.47	115.10	3.42	49.46

3.4 - Gujarat

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	19.24	2.28	16.97	5.68	13.57	4.38	14.87
2009	26.22	2.11	24.11	8.82	17.40	4.57	21.65
2010	34.43	2.08	32.35	11.84	22.59	5.13	29.30
2011	48.90	1.95	46.96	16.63	32.28	5.69	43.21
2012	55.15	1.83	53.32	19.35	35.80	5.83	49.32
2013	53.49	1.79	51.69	19.23	34.26	5.86	47.62
2014	56.23	1.69	54.54	20.95	35.28	5.60	50.63
2015	60.12	1.55	58.56	22.72	37.40	4.45	55.66
2016	63.68	1.41	62.27	24.77	38.91	4.78	58.90
2017	73.20	1.36	71.84	28.10	45.10	5.96	67.23
2018	73.20	1.27	71.93	28.41	44.79	6.87	66.33
2019	70.53	1.24	69.30	26.73	43.80	6.97	63.57
2020	68.80	0.87	67.93	26.81	41.99	6.75	62.05
2021	70.36	0.95	69.41	28.13	42.23	6.37	63.99
2022	68.36	1.06	67.30	26.83	41.53	5.98	62.38
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	6.40	5.78	6.50	7.42	6.06	5.51	6.73
2009	6.10	5.57	6.15	7.14	5.68	5.11	6.36
2010	5.54	5.63	5.54	5.90	5.37	4.84	5.69
2011	5.78	5.61	5.79	5.89	5.72	4.52	6.00
2012	5.80	5.69	5.80	5.85	5.77	4.48	6.01
2013	5.96	5.93	5.96	5.51	6.24	4.51	6.20
2014	6.03	5.93	6.03	5.54	6.35	4.66	6.23
2015	6.03	5.84	6.04	5.46	6.45	4.44	6.21
2016	6.01	5.59	6.02	5.53	6.36	4.40	6.20
2017	6.13	5.56	6.14	5.60	6.51	4.88	6.27
2018	6.04	5.56	6.05	5.40	6.53	5.21	6.14
2019	5.96	5.69	5.97	5.20	6.55	5.22	6.05
2020	5.85	4.55	5.87	5.14	6.41	5.00	5.96
2021	5.86	4.70	5.88	5.24	6.36	4.86	5.98
2022	5.86	4.28	5.89	5.16	6.42	4.70	6.00
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	33.63	3.98	29.65	16.37	60.14	7.65	25.97
2009	45.16	3.64	41.52	25.21	75.43	7.88	37.28
2010	58.46	3.53	54.93	33.52	95.82	8.71	49.75
2011	81.90	3.26	78.64	46.68	133.99	9.53	72.37
2012	91.13	3.03	88.11	53.89	145.50	9.64	81.50
2013	87.23	2.92	84.31	53.12	136.39	9.56	77.67
2014	90.54	2.72	87.82	57.44	137.63	9.01	81.53
2015	95.61	2.47	93.14	61.85	143.01	7.08	88.53
2016	100.06	2.21	97.85	66.99	145.90	7.51	92.55
2017	113.71	2.11	111.60	75.55	165.93	9.26	104.45
2018	112.45	1.95	110.50	75.95	161.76	10.55	101.90
2019	107.21	1.88	105.34	71.11	155.35	10.59	96.62
2020	103.51	1.31	102.20	70.98	146.32	10.15	93.36
2021	99.18	1.34	97.84	76.62	123.36	8.98	90.19
2022	95.08	1.48	93.60	72.89	118.36	8.31	86.77

3.5 - Haryana

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	7.36	0.95	6.40	2.82	4.54	2.26	5.10
2009	10.78	0.88	9.90	4.66	6.12	2.58	8.20
2010	14.96	0.82	14.13	6.59	8.37	3.36	11.60
2011	21.04	0.65	20.39	8.67	12.37	3.67	17.37
2012	23.15	0.59	22.56	9.53	13.62	3.54	19.61
2013	20.10	0.56	19.54	9.76	10.35	3.61	16.49
2014	21.75	0.50	21.25	10.35	11.40	3.78	17.97
2015	22.41	0.41	22.01	10.40	12.01	3.09	19.33
2016	23.63	0.37	23.26	10.57	13.06	3.51	20.12
2017	25.39	0.35	25.05	11.45	13.94	4.00	21.39
2018	23.89	0.30	23.58	11.72	12.17	4.72	19.17
2019	27.99	0.27	27.72	12.65	15.35	5.14	22.85
2020	27.91	0.24	27.67	12.78	15.13	5.18	22.73
2021	28.11	0.23	27.88	12.51	15.60	5.18	22.93
2022	27.56	0.34	27.22	12.21	15.34	5.12	22.44
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	2.45	2.42	2.45	3.68	2.03	2.84	2.31
2009	2.51	2.31	2.53	3.77	2.00	2.88	2.41
2010	2.41	2.23	2.42	3.28	1.99	3.17	2.25
2011	2.49	1.87	2.51	3.07	2.19	2.91	2.41
2012	2.43	1.84	2.45	2.88	2.19	2.72	2.39
2013	2.24	1.86	2.25	2.79	1.89	2.78	2.15
2014	2.33	1.75	2.35	2.74	2.05	3.15	2.21
2015	2.25	1.53	2.27	2.50	2.07	3.08	2.16
2016	2.23	1.46	2.25	2.36	2.14	3.23	2.12
2017	2.12	1.42	2.14	2.28	2.01	3.27	1.99
2018	1.97	1.33	1.98	2.23	1.77	3.58	1.77
2019	2.37	1.25	2.39	2.46	2.29	3.85	2.18
2020	2.37	1.24	2.39	2.45	2.31	3.84	2.18
2021	2.34	1.14	2.36	2.33	2.35	3.95	2.14
2022	2.36	1.35	2.38	2.35	2.37	4.03	2.16
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	30.39	3.94	26.45	17.18	58.18	9.34	21.05
2009	43.75	3.55	40.20	28.10	75.98	10.48	33.28
2010	59.70	3.28	56.42	39.37	100.63	13.41	46.28
2011	82.59	2.55	80.04	51.33	144.16	14.39	68.20
2012	89.42	2.29	87.14	55.92	153.98	13.68	75.74
2013	76.44	2.13	74.31	56.78	113.50	13.74	62.70
2014	81.44	1.87	79.57	59.77	121.40	14.17	67.27
2015	82.67	1.50	81.17	59.62	124.23	11.38	71.28
2016	85.88	1.34	84.54	60.18	131.24	12.76	73.13
2017	91.01	1.24	89.77	64.81	136.25	14.33	76.68
2018	84.44	1.07	83.37	65.96	115.67	16.67	67.77
2019	97.66	0.94	96.72	70.82	142.00	17.93	79.73
2020	96.14	0.82	95.32	71.26	136.37	17.84	78.30
2021	95.24	0.78	94.46	71.82	128.99	17.56	77.68
2022	92.24	1.12	91.12	69.95	123.60	17.14	75.10

3 6 - Himachal Pradesh

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	2.72	0.42	2.30	1.82	0.90	1.05	1.67
2009	3.70	0.38	3.32	2.41	1.29	1.27	2.43
2010	5.34	0.36	4.99	3.15	2.19	1.63	3.71
2011	7.55	0.34	7.22	4.25	3.31	2.00	5.55
2012	8.28	0.31	7.97	4.68	3.60	1.98	6.30
2013	7.30	0.28	7.02	4.57	2.72	1.91	5.39
2014	7.37	0.25	7.12	4.77	2.61	1.68	5.69
2015	8.06	0.21	7.86	5.28	2.78	1.63	6.44
2016	9.06	0.17	8.89	5.95	3.11	1.88	7.18
2017	10.58	0.15	10.43	7.10	3.48	2.31	8.27
2018	12.58	0.13	12.45	6.90	5.68	2.69	9.89
2019	10.63	0.11	10.52	7.29	3.34	2.93	7.70
2020	10.89	0.10	10.79	7.33	3.56	3.09	7.80
2021	11.28	0.09	11.19	7.56	3.72	3.10	8.18
2022	10.29	0.12	10.17	6.77	3.52	2.86	7.43
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	0.90	1.06	0.88	2.37	0.40	1.32	0.75
2009	0.86	1.00	0.85	1.95	0.42	1.42	0.72
2010	0.86	0.97	0.85	1.57	0.52	1.54	0.72
2011	0.89	0.97	0.89	1.50	0.59	1.59	0.77
2012	0.87	0.96	0.87	1.41	0.58	1.52	0.77
2013	0.81	0.93	0.81	1.31	0.50	1.47	0.70
2014	0.79	0.89	0.79	1.26	0.47	1.40	0.70
2015	0.81	0.78	0.81	1.27	0.48	1.62	0.72
2016	0.86	0.68	0.86	1.33	0.51	1.73	0.76
2017	0.89	0.61	0.89	1.42	0.50	1.89	0.77
2018	1.04	0.55	1.05	1.31	0.83	2.04	0.92
2019	0.90	0.53	0.91	1.42	0.50	2.19	0.73
2020	0.93	0.51	0.93	1.41	0.54	2.29	0.75
2021	0.94	0.44	0.95	1.41	0.56	2.36	0.77
2022	0.88	0.49	0.89	1.30	0.54	2.25	0.71
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	41.16	6.33	34.83	30.81	127.78	15.91	25.25
2009	55.50	5.70	49.80	40.47	179.64	19.01	36.49
2010	79.36	5.31	74.04	52.53	298.28	24.20	55.16
2011	111.11	4.96	106.15	70.23	440.32	29.45	81.66
2012	120.68	4.49	116.18	76.76	469.57	28.85	91.83
2013	105.39	4.05	101.33	74.50	347.60	27.56	77.83
2014	105.59	3.63	101.96	77.07	326.01	24.06	81.53
2015	114.52	2.96	111.56	84.87	340.71	23.12	91.39
2016	127.61	2.41	125.19	95.00	372.94	26.49	101.11
2017	147.86	2.09	145.77	112.65	409.03	32.29	115.57
2018	174.46	1.75	172.71	108.79	656.19	37.32	137.15
2019	146.37	1.58	144.79	114.29	378.46	40.35	106.02
2020	148.85	1.34	147.51	114.24	395.72	42.19	106.66
2021	152.50	1.20	151.30	113.87	490.11	41.87	110.63
2022	138.44	1.63	136.81	101.51	460.65	38.50	99.94

3 7 Jammu & Kashmir

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	2.46	0.26	2.20	0.65	1.81	1.18	1.28
2009	3.74	0.24	3.50	1.41	2.34	1.17	2.57
2010	5.78	0.23	5.55	2.29	3.49	1.21	4.57
2011	5.97	0.22	5.75	2.58	3.40	1.05	4.92
2012	6.51	0.20	6.31	2.67	3.84	1.25	5.26
2013	7.04	0.20	6.84	3.21	3.83	1.36	5.69
2014	8.13	0.19	7.94	3.76	4.37	1.46	6.67
2015	9.46	0.15	9.31	4.97	4.49	1.37	8.09
2016	9.95	0.13	9.82	5.19	4.76	1.43	8.51
2017	12.04	0.13	11.91	5.89	6.15	1.61	10.43
2018	13.84	0.12	13.72	7.09	6.75	1.71	12.13
2019	11.44	0.10	11.33	5.14	6.30	1.34	10.09
2020	11.98	0.12	11.86	5.75	6.23	1.38	10.60
2021	12.21	0.17	12.04	5.68	6.53	1.36	10.85
2022	12.23	0.28	11.95	5.67	6.56	1.42	10.81
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	0.82	0.66	0.84	0.85	0.81	1.49	0.58
2009	0.87	0.63	0.89	1.14	0.76	1.31	0.76
2010	0.93	0.63	0.95	1.14	0.83	1.14	0.89
2011	0.71	0.62	0.71	0.91	0.60	0.83	0.68
2012	0.68	0.64	0.69	0.81	0.62	0.96	0.64
2013	0.78	0.65	0.79	0.92	0.70	1.04	0.74
2014	0.87	0.65	0.88	1.00	0.79	1.21	0.82
2015	0.95	0.56	0.96	1.19	0.77	1.36	0.90
2016	0.94	0.52	0.95	1.16	0.78	1.32	0.90
2017	1.01	0.55	1.02	1.17	0.89	1.32	0.97
2018	1.14	0.51	1.15	1.35	0.98	1.30	1.12
2019	0.97	0.47	0.98	1.00	0.94	1.01	0.96
2020	1.02	0.63	1.02	1.10	0.95	1.02	1.02
2021	1.02	0.83	1.02	1.06	0.98	1.04	1.01
2022	1.05	1.13	1.05	1.09	1.01	1.12	1.04
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	21.84	2.30	19.54	7.87	61.16	10.48	11.36
2009	32.76	2.10	30.66	16.72	77.42	10.24	22.52
2010	49.90	2.00	47.90	26.93	113.17	10.42	39.49
2011	50.90	1.84	49.06	30.01	107.85	8.95	41.95
2012	54.82	1.72	53.10	30.84	119.52	10.53	44.29
2013	58.57	1.64	56.93	36.72	116.92	11.28	47.29
2014	66.80	1.53	65.27	42.61	130.70	11.99	54.82
2015	76.93	1.21	75.72	55.85	132.04	11.12	65.81
2016	80.02	1.06	78.96	57.90	137.20	11.52	68.50
2017	95.91	1.07	94.84	65.23	174.43	12.83	83.07
2018	109.19	0.91	108.28	78.03	188.09	13.50	95.69
2019	89.43	0.80	88.63	56.19	172.73	10.51	78.92
2020	92.91	0.93	91.97	62.53	168.24	10.68	82.22
2021	89.01	1.23	87.78	59.18	158.50	9.90	79.11
2022	88.55	2.03	86.52	58.91	156.72	10.30	78.25

3.8 - Karnataka

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	19.89	2.84	17.04	4.23	15.65	4.40	15.49
2009	26.33	2.78	23.54	5.30	21.02	4.92	21.41
2010	39.91	2.78	37.13	8.94	30.97	6.04	33.87
2011	52.19	2.74	49.45	13.11	39.09	7.75	44.45
2012	58.41	2.69	55.71	16.54	41.87	8.88	49.53
2013	55.36	2.44	52.91	16.21	39.15	8.82	46.54
2014	56.64	2.32	54.32	17.51	39.13	8.89	47.75
2015	60.32	2.28	58.05	18.64	41.68	8.10	52.22
2016	63.60	2.26	61.34	20.21	43.39	8.25	55.35
2017	71.39	2.24	69.14	22.51	48.88	8.26	63.13
2018	69.22	2.22	67.00	23.63	45.59	8.33	60.89
2019	70.40	2.15	68.24	23.94	46.46	8.22	62.18
2020	69.72	2.10	67.63	28.57	41.16	8.18	61.54
2021	70.79	2.16	68.64	27.57	43.22	7.94	62.86
2022	67.37	2.70	64.67	25.80	41.57	7.74	59.63
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	6.62	7.22	6.53	5.53	6.99	5.53	7.01
2009	6.13	7.33	6.01	4.29	6.87	5.49	6.29
2010	6.42	7.51	6.35	4.45	7.36	5.71	6.57
2011	6.17	7.90	6.09	4.64	6.93	6.15	6.17
2012	6.14	8.36	6.06	5.00	6.75	6.81	6.03
2013	6.16	8.09	6.10	4.64	7.13	6.78	6.06
2014	6.07	8.13	6.01	4.63	7.05	7.40	5.87
2015	6.06	8.57	5.99	4.48	7.19	8.08	5.83
2016	6.00	8.94	5.93	4.51	7.09	7.59	5.82
2017	5.97	9.20	5.91	4.49	7.05	6.76	5.88
2018	5.71	9.72	5.64	4.49	6.65	6.33	5.64
2019	5.95	9.93	5.87	4.66	6.94	6.16	5.92
2020	5.92	10.95	5.84	5.48	6.28	6.06	5.91
2021	5.90	10.65	5.81	5.13	6.51	6.05	5.88
2022	5.77	10.89	5.66	4.97	6.42	6.09	5.74
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	34.53	4.94	29.59	11.53	74.98	7.64	26.89
2009	45.21	4.78	40.43	14.36	98.73	8.44	36.77
2010	67.81	4.72	63.09	24.08	142.62	10.27	57.54
2011	87.76	4.61	83.15	35.10	176.59	13.02	74.74
2012	97.22	4.48	92.74	44.08	185.62	14.78	82.44
2013	91.24	4.03	87.21	43.00	170.38	14.53	76.71
2014	92.45	3.78	88.67	46.24	167.19	14.50	77.95
2015	97.54	3.68	93.86	49.05	174.89	13.10	84.44
2016	101.89	3.61	98.27	52.95	178.85	13.21	88.67
2017	113.39	3.57	109.83	58.81	198.06	13.12	100.27
2018	109.05	3.49	105.55	61.57	181.67	13.12	95.93
2019	110.04	3.37	106.67	62.23	182.15	12.85	97.19
2020	108.19	3.25	104.94	74.13	158.84	12.70	95.49
2021	105.85	3.22	102.63	72.96	148.59	11.87	93.98
2022	100.10	4.02	96.09	68.42	140.47	11.50	88.60

3.9 - Kerala

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	15.37	3.67	11.70	6.60	8.77	6.26	9.12
2009	19.98	3.58	16.40	9.00	10.98	6.55	13.42
2010	27.65	3.46	24.19	11.43	16.22	7.51	20.15
2011	34.66	3.30	31.36	13.74	20.92	9.15	25.51
2012	37.21	3.19	34.02	16.10	21.10	10.18	27.03
2013	33.76	3.06	30.69	16.22	17.54	10.67	23.09
2014	34.01	2.89	31.12	16.97	17.04	10.72	23.28
2015	33.94	2.59	31.35	17.81	16.13	9.00	24.94
2016	36.61	2.30	34.31	16.64	19.96	9.78	26.83
2017	41.28	2.11	39.16	18.69	22.59	11.11	30.17
2018	43.98	1.97	42.00	20.30	23.67	12.39	31.58
2019	45.84	1.88	43.96	20.89	24.95	12.67	33.17
2020	44.98	1.54	43.43	20.92	24.06	12.39	32.59
2021	46.04	1.21	44.84	20.41	25.64	11.95	34.10
2022	44.69	1.32	43.37	19.97	24.73	11.57	33.12
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	5.12	9.32	4.48	8.62	3.92	7.86	4.13
2009	4.65	9.42	4.19	7.29	3.58	7.32	3.95
2010	4.45	9.36	4.14	5.69	3.86	7.09	3.91
2011	4.10	9.50	3.86	4.87	3.71	7.26	3.54
2012	3.91	9.91	3.70	4.87	3.40	7.81	3.29
2013	3.76	10.14	3.54	4.64	3.20	8.20	3.01
2014	3.64	10.13	3.44	4.49	3.07	8.93	2.86
2015	3.41	9.73	3.23	4.28	2.78	8.97	2.78
2016	3.46	9.11	3.32	3.72	3.26	9.00	2.82
2017	3.45	8.65	3.35	3.72	3.26	9.09	2.81
2018	3.63	8.64	3.53	3.86	3.45	9.41	2.92
2019	3.87	8.68	3.78	4.06	3.73	9.49	3.16
2020	3.82	8.07	3.75	4.01	3.67	9.18	3.13
2021	3.83	5.96	3.80	3.80	3.86	9.11	3.19
2022	3.83	5.32	3.80	3.84	3.82	9.11	3.19
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	45.34	10.83	34.51	26.18	100.79	18.45	26.89
2009	58.48	10.47	48.01	35.43	125.35	19.19	39.29
2010	80.36	10.06	70.31	44.65	184.18	21.82	58.55
2011	100.01	9.52	90.48	53.25	236.25	26.39	73.62
2012	106.61	9.14	97.47	61.94	237.10	29.16	77.45
2013	96.09	8.72	87.37	61.93	196.10	30.36	65.73
2014	96.19	8.16	88.02	64.34	189.66	30.33	65.85
2015	95.41	7.27	88.14	67.09	178.73	25.29	70.12
2016	102.33	6.42	95.91	62.30	220.35	27.35	74.99
2017	114.75	5.87	108.88	69.53	248.35	30.88	83.87
2018	121.61	5.45	116.16	75.10	259.40	34.27	87.35
2019	126.15	5.18	120.96	76.85	272.53	34.88	91.27
2020	123.19	4.23	118.97	76.55	261.98	33.94	89.26
2021	129.45	3.39	126.06	199.48	101.18	33.58	95.87
2022	125.15	3.70	121.45	210.29	94.32	32.41	92.74

3.10 - Madhya Pradesh

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	14.98	1.79	13.19	2.89	12.09	3.82	11.16
2009	22.27	1.68	20.60	5.95	16.32	4.47	17.80
2010	33.55	1.57	31.98	10.79	22.76	5.42	28.13
2011	47.21	1.38	45.83	16.26	30.95	6.06	41.15
2012	52.76	1.14	51.62	18.61	34.15	5.67	47.09
2013	53.28	1.12	52.16	22.49	30.80	6.08	47.20
2014	56.58	1.10	55.48	24.79	31.79	5.78	50.80
2015	61.71	1.11	60.60	27.43	34.28	4.05	57.66
2016	66.72	1.04	65.67	30.44	36.28	5.15	61.56
2017	70.60	1.02	69.58	33.17	37.43	5.92	64.69
2018	71.47	0.95	70.52	33.78	37.69	6.72	64.75
2019	75.72	0.92	74.80	34.33	41.39	6.83	68.89
2020	75.85	0.62	75.23	34.38	41.47	6.73	69.13
2021	78.59	0.72	77.87	35.61	42.98	6.57	72.03
2022	77.79	1.04	76.76	34.84	42.95	6.31	71.49
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	4.99	4.55	5.05	3.78	5.40	4.81	5.05
2009	5.18	4.41	5.26	4.82	5.33	5.00	5.23
2010	5.40	4.25	5.47	5.38	5.41	5.12	5.46
2011	5.58	3.98	5.65	5.76	5.49	4.81	5.71
2012	5.55	3.54	5.62	5.63	5.50	4.35	5.74
2013	5.93	3.71	6.01	6.44	5.61	4.67	6.15
2014	6.06	3.87	6.13	6.56	5.73	4.82	6.25
2015	6.19	4.16	6.25	6.59	5.91	4.04	6.44
2016	6.30	4.13	6.35	6.80	5.93	4.74	6.48
2017	5.91	4.20	5.94	6.61	5.40	4.84	6.03
2018	5.90	4.16	5.93	6.42	5.50	5.10	5.99
2019	6.40	4.24	6.44	6.68	6.19	5.12	6.56
2020	6.45	3.24	6.50	6.60	6.33	4.98	6.64
2021	6.54	3.56	6.60	6.63	6.48	5.01	6.73
2022	6.67	4.17	6.72	6.70	6.64	4.96	6.88
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	16.26	1.95	14.32	4.25	50.44	4.15	12.12
2009	23.79	1.79	22.00	8.61	66.56	4.78	19.01
2010	35.28	1.65	33.63	15.41	90.76	5.70	29.58
2011	48.88	1.43	47.45	22.92	120.74	6.27	42.61
2012	53.81	1.16	52.65	25.90	130.38	5.78	48.03
2013	53.55	1.13	52.42	30.91	115.09	6.11	47.44
2014	56.04	1.09	54.95	33.67	116.34	5.73	50.32
2015	60.25	1.08	59.17	36.81	122.85	3.96	56.29
2016	64.23	1.00	63.23	40.37	127.38	4.96	59.27
2017	67.07	0.97	66.10	43.52	128.86	5.62	61.45
2018	67.02	0.89	66.13	43.85	127.26	6.30	60.72
2019	70.11	0.85	69.26	44.12	137.10	6.33	63.79
2020	69.40	0.57	68.83	43.77	134.83	6.15	63.24
2021	68.87	0.63	68.24	43.46	133.59	5.75	63.11
2022	67.35	0.90	66.46	42.11	131.14	5.46	61.89

3.11 - Maharashtra

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	24.72	3.64	21.08	7.56	17.17	7.06	17.66
2009	34.62	3.27	31.35	13.12	21.49	7.09	27.53
2010	46.53	3.01	43.52	19.66	26.87	7.69	38.83
2011	64.57	2.85	61.72	28.25	36.32	9.08	55.49
2012	73.12	2.65	70.47	32.10	41.01	8.47	64.65
2013	70.87	2.47	68.40	32.54	38.32	8.92	61.95
2014	74.90	2.31	72.59	34.84	40.07	8.47	66.44
2015	79.06	2.12	76.94	37.78	41.28	6.79	72.27
2016	86.09	1.99	84.10	40.38	45.71	7.39	78.70
2017	95.78	1.88	93.90	43.14	52.64	7.92	87.86
2018	96.33	1.73	94.61	45.56	50.77	8.37	87.96
2019	94.55	1.52	93.03	43.56	50.99	8.29	86.26
2020	94.11	1.31	92.80	43.59	50.52	7.93	86.18
2021	96.17	1.26	94.91	44.25	51.93	7.56	88.61
2022	93.69	1.39	92.30	42.96	50.73	7.36	86.33
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	8.23	9.24	8.07	9.88	7.66	8.88	7.99
2009	8.06	8.61	8.00	10.62	7.02	7.91	8.09
2010	7.49	8.14	7.45	9.79	6.39	7.26	7.53
2011	7.63	8.22	7.60	10.01	6.44	7.21	7.70
2012	7.69	8.22	7.67	9.70	6.61	6.50	7.87
2013	7.89	8.16	7.88	9.32	6.98	6.86	8.07
2014	8.03	8.10	8.03	9.22	7.22	7.05	8.17
2015	7.94	7.96	7.94	9.08	7.12	6.77	8.07
2016	8.13	7.88	8.13	9.02	7.47	6.80	8.28
2017	8.02	7.70	8.02	8.60	7.59	6.49	8.19
2018	7.95	7.58	7.96	8.66	7.40	6.36	8.14
2019	7.99	7.02	8.01	8.47	7.62	6.21	8.22
2020	8.00	6.87	8.02	8.36	7.71	5.87	8.27
2021	8.01	6.24	8.04	8.24	7.82	5.77	8.28
2022	8.03	5.59	8.08	8.27	7.84	5.79	8.30
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	27.42	4.04	23.38	12.59	56.97	7.83	19.59
2009	37.90	3.58	34.32	21.70	69.67	7.76	30.14
2010	50.30	3.25	47.05	32.27	85.10	8.32	41.99
2011	68.97	3.05	65.93	46.07	112.47	9.70	59.28
2012	77.19	2.79	74.40	52.03	124.23	8.94	68.25
2013	73.97	2.57	71.39	52.43	113.59	9.31	64.65
2014	77.32	2.38	74.93	55.82	116.26	8.74	68.58
2015	80.75	2.16	78.59	60.24	117.32	6.93	73.82
2016	87.06	2.01	85.05	64.11	127.32	7.47	79.59
2017	95.88	1.88	94.00	68.20	143.70	7.93	87.95
2018	95.50	1.71	93.78	71.74	135.87	8.30	87.20
2019	92.83	1.50	91.34	68.34	133.80	8.14	84.70
2020	91.55	1.28	90.27	68.16	130.05	7.71	83.83
2021	95.83	1.26	94.57	67.92	147.49	7.53	88.30
2022	93.35	1.38	91.96	65.79	144.67	7.33	86.02

3.12 - North-East

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	2.46	0.34	2.12	0.53	1.93	1.05	1.41
2009	3.69	0.34	3.35	0.95	2.73	1.10	2.58
2010	5.64	0.33	5.31	2.52	3.12	1.40	4.24
2011	7.45	0.27	7.18	3.24	4.21	1.71	5.75
2012	8.77	0.25	8.52	3.77	5.00	1.87	6.90
2013	9.15	0.19	8.96	4.13	5.02	1.95	7.20
2014	9.55	0.14	9.41	4.39	5.17	1.66	7.89
2015	10.63	0.13	10.50	5.29	5.34	1.65	8.98
2016	11.20	0.12	11.07	5.64	5.56	1.75	9.45
2017	12.69	0.12	12.57	6.37	6.32	1.79	10.90
2018	13.97	0.11	13.86	7.08	6.89	1.75	12.23
2019	12.12	0.10	12.01	4.73	7.39	1.73	10.39
2020	12.11	0.09	12.02	5.73	6.39	1.51	10.60
2021	12.55	0.10	12.45	6.34	6.22	1.44	11.12
2022	12.08	0.16	11.92	5.99	6.09	1.44	10.64
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	0.82	0.87	0.81	0.69	0.86	1.32	0.64
2009	0.86	0.88	0.86	0.77	0.89	1.23	0.76
2010	0.91	0.88	0.91	1.25	0.74	1.32	0.82
2011	0.88	0.78	0.89	1.15	0.75	1.36	0.80
2012	0.92	0.78	0.93	1.14	0.81	1.43	0.84
2013	1.02	0.63	1.03	1.18	0.91	1.50	0.94
2014	1.02	0.49	1.04	1.16	0.93	1.38	0.97
2015	1.07	0.48	1.08	1.27	0.92	1.64	1.00
2016	1.06	0.49	1.07	1.26	0.91	1.61	0.99
2017	1.06	0.50	1.07	1.27	0.91	1.46	1.02
2018	1.15	0.49	1.17	1.35	1.00	1.33	1.13
2019	1.02	0.48	1.03	0.92	1.10	1.29	0.99
2020	1.03	0.48	1.04	1.10	0.97	1.12	1.02
2021	1.05	0.51	1.05	1.18	0.94	1.10	1.04
2022	1.04	0.66	1.04	1.15	0.94	1.13	1.02
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	19.32	2.69	16.63	5.42	64.59	8.26	11.06
2009	28.60	2.60	25.99	9.70	89.46	8.57	20.02
2010	43.22	2.50	40.71	25.36	100.09	10.73	32.49
2011	56.50	2.04	54.46	32.36	132.55	12.95	43.55
2012	65.72	1.89	63.83	37.38	153.90	14.00	51.72
2013	67.78	1.41	66.37	40.57	151.51	14.42	53.36
2014	69.97	1.03	68.94	42.68	153.01	12.17	57.79
2015	77.00	0.92	76.07	51.09	154.91	11.93	65.06
2016	80.22	0.89	79.33	54.01	158.15	12.55	67.67
2017	89.94	0.86	89.08	60.51	176.42	12.68	77.25
2018	98.06	0.79	97.27	66.81	188.77	12.27	85.79
2019	84.17	0.72	83.44	44.30	198.62	12.01	72.16
2020	83.37	0.63	82.75	53.33	168.53	10.42	72.96
2021	81.11	0.66	80.45	61.61	119.74	9.29	71.82
2022	77.35	1.05	76.30	58.22	114.23	9.21	68.14

3.13 - Odisha

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	5.95	0.77	5.18	2.37	3.58	1.94	4.01
2009	9.33	0.65	8.69	4.20	5.13	2.25	7.08
2010	15.89	0.61	15.27	6.95	8.94	3.11	12.77
2011	22.99	0.57	22.42	9.64	13.34	4.39	18.59
2012	27.08	0.46	26.62	11.99	15.09	4.90	22.19
2013	24.98	0.37	24.60	13.30	11.67	4.88	20.10
2014	25.47	0.35	25.13	13.78	11.69	3.67	21.80
2015	28.19	0.32	27.87	15.46	12.73	3.74	24.45
2016	29.37	0.31	29.06	17.32	12.05	4.43	24.93
2017	34.58	0.29	34.29	20.45	14.13	5.31	29.28
2018	34.65	0.28	34.37	21.84	12.81	5.69	28.96
2019	32.93	0.24	32.69	21.40	11.53	5.97	26.96
2020	33.53	0.20	33.33	22.34	11.19	6.41	27.12
2021	34.56	0.21	34.34	22.51	12.04	6.62	27.93
2022	33.12	0.59	32.53	21.45	11.68	6.45	26.67
Percentage Share to Total Subscribers in India (%)							
At the end of March	**Total**	**Wireline**	**Wireless**	**Rural**	**Urban**	**Public**	**Private**
2008	1.98	1.96	1.98	3.10	1.60	2.44	1.81
2009	2.17	1.71	2.22	3.40	1.68	2.51	2.08
2010	2.56	1.66	2.61	3.46	2.13	2.94	2.48
2011	2.72	1.64	2.76	3.42	2.37	3.49	2.58
2012	2.85	1.44	2.90	3.62	2.43	3.76	2.70
2013	2.78	1.24	2.83	3.81	2.13	3.75	2.62
2014	2.73	1.22	2.78	3.65	2.11	3.06	2.68
2015	2.83	1.20	2.87	3.72	2.19	3.73	2.73
2016	2.77	1.22	2.81	3.87	1.97	4.08	2.62
2017	2.89	1.20	2.93	4.08	2.04	4.34	2.73
2018	2.86	1.22	2.89	4.15	1.87	4.32	2.68
2019	2.78	1.09	2.81	4.16	1.72	4.47	2.57
2020	2.85	1.06	2.88	4.29	1.71	4.75	2.60
2021	2.88	1.05	2.91	4.19	1.81	5.05	2.61
2022	2.84	2.39	2.85	4.13	1.80	5.08	2.57
Teledensity (per 100 Inhabitants)							
At the end of March	**Total**	**Wireline**	**Wireless**	**Rural**	**Urban**	**Public**	**Private**
2008	15.00	1.95	13.05	7.14	55.59	4.90	10.10
2009	23.30	1.62	21.69	12.55	78.09	5.62	17.69
2010	39.30	1.52	37.78	20.61	133.25	7.70	31.60
2011	56.37	1.40	54.97	28.42	194.96	10.77	45.60
2012	65.84	1.13	64.71	35.11	216.24	11.90	53.94
2013	60.21	0.90	59.31	38.72	164.00	11.76	48.45
2014	60.90	0.83	60.07	39.87	161.16	8.77	52.13
2015	66.85	0.75	66.09	44.46	172.11	8.86	57.98
2016	69.09	0.72	68.37	49.52	159.94	10.43	58.66
2017	80.74	0.68	80.06	58.18	184.01	12.39	68.34
2018	80.28	0.64	79.64	61.81	163.73	13.17	67.11
2019	75.74	0.54	75.20	60.27	144.73	13.73	62.01
2020	76.58	0.46	76.12	62.62	137.98	14.65	61.93
2021	78.46	0.48	77.98	62.73	147.63	15.04	63.42
2022	74.99	1.34	73.64	59.73	141.28	14.60	60.38

3.14 - Punjab

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	13.40	1.68	11.72	4.24	9.15	3.45	9.95
2009	16.53	1.65	14.88	5.63	10.90	4.24	12.29
2010	21.70	1.60	20.10	7.26	14.44	4.95	16.75
2011	30.34	1.58	28.76	9.81	20.53	5.81	24.53
2012	33.40	1.44	31.95	11.17	22.23	5.78	27.62
2013	30.78	1.32	29.46	11.59	19.19	5.42	25.37
2014	32.43	1.22	31.21	12.45	19.98	5.51	26.93
2015	31.75	1.12	30.63	12.47	19.28	3.79	27.96
2016	32.81	1.06	31.75	12.49	20.32	4.24	28.56
2017	36.97	1.01	35.97	13.99	22.99	5.13	31.84
2018	39.00	0.86	38.14	14.15	24.86	5.81	33.19
2019	40.01	0.77	39.24	13.62	26.39	5.85	34.17
2020	39.83	0.66	39.17	13.65	26.19	6.09	33.74
2021	39.54	0.71	38.84	13.59	25.95	5.99	33.55
2022	37.67	0.68	36.99	12.72	24.95	5.62	32.06
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	4.46	4.27	4.49	5.55	4.09	4.33	4.51
2009	3.85	4.34	3.80	4.56	3.56	4.74	3.61
2010	3.49	4.34	3.44	3.62	3.43	4.67	3.25
2011	3.58	4.55	3.54	3.48	3.64	4.61	3.41
2012	3.51	4.48	3.48	3.38	3.58	4.43	3.36
2013	3.43	4.37	3.40	3.32	3.50	4.16	3.30
2014	3.48	4.29	3.45	3.30	3.60	4.59	3.31
2015	3.19	4.21	3.16	3.00	3.32	3.78	3.12
2016	3.10	4.20	3.07	2.79	3.32	3.91	3.00
2017	3.09	4.13	3.07	2.79	3.32	4.20	2.97
2018	3.22	3.78	3.21	2.69	3.62	4.42	3.07
2019	3.38	3.57	3.38	2.65	3.94	4.38	3.25
2020	3.39	3.46	3.38	2.62	3.99	4.51	3.24
2021	3.29	3.49	3.29	2.53	3.91	4.56	3.14
2022	3.23	2.76	3.24	2.45	3.86	4.42	3.08
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	47.89	6.02	41.87	25.08	82.79	12.31	35.58
2009	58.25	5.81	52.44	33.11	95.85	14.95	43.30
2010	75.43	5.58	69.86	42.51	123.57	17.19	58.24
2011	104.09	5.42	98.68	57.23	171.07	19.93	84.16
2012	113.13	4.89	108.24	64.90	180.52	19.57	93.56
2013	103.00	4.42	98.58	67.16	151.97	18.12	84.88
2014	107.22	4.04	103.18	71.96	154.34	18.20	89.02
2015	103.79	3.66	100.12	71.96	145.39	12.39	91.39
2016	106.10	3.43	102.67	71.97	149.78	13.72	92.38
2017	118.28	3.22	115.06	80.51	165.52	16.40	101.87
2018	123.45	2.73	120.72	81.39	174.88	18.40	105.05
2019	125.35	2.42	122.92	78.37	181.51	18.32	107.03
2020	123.52	2.05	121.47	78.56	176.04	18.89	104.62
2021	125.27	2.24	123.04	76.05	189.54	18.97	106.31
2022	118.57	2.15	116.41	71.15	179.57	17.67	100.89

3.15 - Rajasthan

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	15.34	1.76	13.59	6.28	9.07	4.10	11.24
2009	24.42	1.67	22.76	8.37	16.05	4.72	19.70
2010	35.27	1.53	33.74	15.99	19.28	5.91	29.36
2011	44.39	1.29	43.10	20.05	24.34	6.87	37.51
2012	50.32	1.16	49.16	23.00	27.32	6.70	43.63
2013	49.61	1.01	48.60	23.75	25.87	6.85	42.76
2014	53.57	0.92	52.65	26.21	27.36	6.85	46.72
2015	56.03	0.82	55.21	29.28	26.75	3.99	52.04
2016	60.88	0.79	60.09	32.28	28.60	4.67	56.21
2017	68.10	0.74	67.36	34.62	33.48	6.17	61.93
2018	65.84	0.60	65.24	34.09	31.75	6.08	59.76
2019	64.77	0.54	64.24	33.08	31.69	6.35	58.42
2020	65.98	0.45	65.54	35.64	30.35	6.63	59.35
2021	66.77	0.47	66.30	36.45	30.32	6.65	60.12
2022	63.88	0.69	63.19	34.38	29.50	6.84	57.04
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	5.11	4.46	5.20	8.21	4.05	5.16	5.09
2009	5.68	4.39	5.81	6.78	5.24	5.27	5.79
2010	5.68	4.13	5.77	7.96	4.58	5.58	5.70
2011	5.24	3.71	5.31	7.10	4.32	5.46	5.21
2012	5.29	3.62	5.35	6.95	4.40	5.14	5.31
2013	5.52	3.35	5.60	6.80	4.71	5.27	5.57
2014	5.74	3.24	5.82	6.94	4.93	5.71	5.75
2015	5.62	3.09	5.69	7.04	4.61	3.98	5.81
2016	5.75	3.12	5.81	7.21	4.68	4.29	5.91
2017	5.70	3.03	5.75	6.90	4.83	5.05	5.77
2018	5.43	2.63	5.49	6.48	4.63	4.62	5.53
2019	5.47	2.47	5.53	6.43	4.74	4.76	5.56
2020	5.61	2.35	5.66	6.84	4.63	4.91	5.70
2021	5.56	2.33	5.62	6.79	4.57	5.07	5.62
2022	5.47	2.78	5.53	6.62	4.56	5.38	5.49
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	23.74	2.72	21.02	12.74	59.06	6.35	17.39
2009	37.15	2.53	34.62	16.71	102.56	7.18	29.97
2010	52.76	2.28	50.48	31.42	120.89	8.84	43.92
2011	65.35	1.90	63.46	38.79	149.88	10.12	55.23
2012	72.96	1.69	71.27	43.86	165.30	9.71	63.25
2013	70.85	1.44	69.40	44.63	153.82	9.79	61.06
2014	75.39	1.30	74.09	48.58	160.00	9.65	65.75
2015	77.76	1.14	76.62	53.55	153.93	5.54	72.22
2016	83.36	1.08	82.29	58.30	161.99	6.39	76.98
2017	92.02	1.00	91.02	61.73	186.76	8.33	83.69
2018	87.83	0.80	87.03	60.06	174.44	8.11	79.72
2019	85.34	0.71	84.63	57.60	171.59	8.37	76.97
2020	85.88	0.58	85.29	61.34	161.97	8.63	77.25
2021	84.14	0.59	83.55	62.36	145.07	8.38	75.77
2022	79.62	0.86	78.76	58.29	138.83	8.52	71.10

3.16 - Tamil Nadu

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	20.79	2.50	18.28	5.13	15.65	5.14	15.64
2009	30.04	2.26	27.78	8.22	21.82	5.57	24.47
2010	44.44	2.11	42.34	12.03	32.41	6.64	37.80
2011	58.71	1.98	56.73	15.11	43.59	8.68	50.03
2012	80.87	3.19	77.68	17.21	63.66	12.22	68.65
2013	75.52	3.11	72.41	19.98	55.54	12.00	63.53
2014	78.09	2.91	75.17	21.91	56.18	12.05	66.04
2015	83.08	2.76	80.32	24.05	59.02	10.71	72.36
2016	83.99	2.64	81.35	24.25	59.73	10.65	73.34
2017	91.80	2.55	89.26	26.28	65.53	10.97	80.83
2018	98.01	2.32	95.70	29.14	68.87	12.65	85.36
2019	84.48	2.19	82.29	23.09	61.39	13.48	71.00
2020	83.80	1.91	81.89	25.98	57.82	13.77	70.03
2021	84.41	1.89	82.52	25.08	59.33	11.71	72.70
2022	81.15	2.35	78.80	23.57	57.58	10.69	70.46
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	6.92	6.35	7.00	6.71	6.99	6.47	7.08
2009	6.99	5.95	7.09	6.65	7.13	6.22	7.19
2010	7.15	5.70	7.25	5.99	7.71	6.27	7.33
2011	6.94	5.69	6.99	5.35	7.73	6.89	6.95
2012	8.50	9.92	8.45	5.20	10.26	9.38	8.36
2013	8.41	10.29	8.34	5.72	10.12	9.22	8.27
2014	8.37	10.22	8.31	5.80	10.12	10.03	8.12
2015	8.34	10.37	8.28	5.78	10.18	10.68	8.08
2016	7.93	10.47	7.87	5.42	9.77	9.80	7.71
2017	7.68	10.44	7.62	5.24	9.45	8.98	7.53
2018	8.09	10.15	8.05	5.54	10.04	9.61	7.90
2019	7.14	10.10	7.08	4.49	9.17	10.09	6.76
2020	7.12	10.00	7.07	4.99	8.82	10.20	6.72
2021	7.03	9.32	6.99	4.67	8.94	8.93	6.80
2022	6.95	9.46	6.90	4.54	8.90	8.41	6.78
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	35.09	4.22	30.87	15.78	58.62	8.69	26.41
2009	50.46	3.80	46.67	25.62	79.48	9.36	41.10
2010	74.31	3.52	70.79	38.05	114.94	11.11	63.20
2011	97.73	3.29	94.44	48.55	150.60	14.44	83.28
2012	116.61	4.60	112.01	56.20	164.40	17.61	98.99
2013	108.17	4.45	103.72	66.33	139.93	17.18	90.99
2014	111.14	4.15	106.99	74.02	138.16	17.14	93.99
2015	117.52	3.90	113.62	82.75	141.81	15.16	102.37
2016	118.13	3.71	114.42	85.00	140.34	14.97	103.16
2017	128.41	3.56	124.84	93.88	150.61	15.34	113.06
2018	136.36	3.22	133.14	106.23	154.96	17.61	118.76
2019	116.94	3.03	113.91	85.94	135.30	18.65	98.29
2020	115.45	2.64	112.81	98.80	124.90	18.97	96.48
2021	108.22	2.42	105.80	68.67	143.05	15.02	93.21
2022	103.69	3.00	100.69	64.92	137.22	13.66	90.03

3.17 - Uttar Pradesh *

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	31.86	2.81	29.05	9.74	22.12	9.51	22.35
2009	49.45	2.81	46.64	15.98	33.47	11.44	38.02
2010	77.50	2.82	74.68	29.45	48.05	14.41	63.10
2011	111.77	2.32	109.45	43.59	68.18	16.66	95.11
2012	130.78	2.07	128.71	53.27	77.51	16.84	113.94
2013	124.04	1.82	122.22	56.39	67.65	17.01	107.03
2014	127.08	1.34	125.74	61.02	66.06	16.11	110.97
2015	136.42	1.00	135.42	67.71	68.71	11.84	124.58
2016	150.77	0.93	149.84	74.53	76.24	13.95	136.81
2017	172.13	0.89	171.24	82.44	89.69	17.66	154.46
2018	168.40	0.81	167.59	84.76	83.65	18.32	150.09
2019	164.34	0.75	163.59	90.42	73.92	18.41	145.93
2020	160.75	0.61	160.14	84.11	76.65	18.15	142.61
2021	165.13	0.75	164.37	93.98	71.15	17.66	147.46
2022	165.84	1.15	164.69	93.29	72.55	17.35	148.50
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	10.60	7.14	11.13	12.73	9.88	11.96	10.12
2009	11.51	7.40	11.91	12.94	10.93	12.77	11.18
2010	12.47	7.64	12.78	14.67	11.43	13.61	12.24
2011	13.21	6.69	13.49	15.44	12.09	13.22	13.20
2012	13.75	6.43	14.00	16.10	12.49	12.93	13.88
2013	13.81	6.01	14.08	16.15	12.33	13.07	13.94
2014	13.62	4.71	13.90	16.15	11.90	13.42	13.65
2015	13.69	3.75	13.97	16.27	11.85	11.80	13.91
2016	14.23	3.69	14.49	16.64	12.47	12.84	14.39
2017	14.40	3.65	14.63	16.43	12.94	14.46	14.40
2018	13.90	3.56	14.10	16.12	12.20	13.91	13.90
2019	13.89	3.47	14.08	17.58	11.05	13.79	13.90
2020	13.66	3.21	13.83	16.14	11.69	13.44	13.69
2021	13.75	3.73	13.92	17.50	10.72	13.47	13.79
2022	14.21	4.65	14.42	17.95	11.21	13.65	14.28
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	15.93	1.41	14.52	6.23	50.53	4.75	11.17
2009	24.28	1.38	22.90	10.06	74.65	5.61	18.66
2010	37.37	1.36	36.01	18.24	104.68	6.95	30.43
2011	52.97	1.10	51.87	26.57	145.15	7.90	45.07
2012	60.93	0.96	59.97	31.98	161.32	7.85	53.08
2013	56.83	0.83	56.00	33.34	137.69	7.79	49.04
2014	57.27	0.61	56.67	35.55	131.53	7.26	50.01
2015	60.51	0.44	60.06	38.88	133.87	5.25	55.25
2016	65.83	0.41	65.43	42.20	145.42	6.09	59.74
2017	74.03	0.38	73.64	46.06	167.56	7.60	66.43
2018	71.36	0.34	71.01	46.73	153.12	7.76	63.60
2019	68.63	0.31	68.32	49.22	132.63	7.69	60.94
2020	66.20	0.25	65.95	45.22	134.86	7.47	58.73
2021	68.09	0.31	67.78	51.18	120.84	7.28	60.81
2022	67.68	0.47	67.21	50.39	121.16	7.08	60.61

3.18 - West Bengal

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	10.59	1.15	9.44	4.68	5.90	2.70	7.88
2009	16.71	1.05	15.66	8.62	8.09	3.06	13.65
2010	26.07	0.91	25.17	15.00	11.07	3.28	22.79
2011	40.42	0.76	39.66	23.93	16.49	4.07	36.35
2012	46.95	0.68	46.27	27.51	19.44	4.27	42.68
2013	41.71	0.55	41.16	26.77	14.94	4.15	37.56
2014	42.80	0.51	42.29	27.74	15.06	2.55	40.25
2015	47.52	0.44	47.07	31.79	15.73	1.80	45.71
2016	49.87	0.37	49.50	34.38	15.49	2.11	47.75
2017	58.58	0.33	58.25	39.86	18.72	2.23	56.35
2018	59.15	0.28	58.88	40.52	18.63	2.01	57.15
2019	57.72	0.23	57.49	37.45	20.27	1.99	55.73
2020	55.24	0.17	55.07	34.57	20.67	2.53	52.70
2021	56.55	0.26	56.29	34.85	21.70	2.73	53.82
2022	56.75	0.38	56.37	34.57	22.18	2.88	53.87
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	3.52	2.91	3.62	6.12	2.63	3.40	3.57
2009	3.89	2.78	4.00	6.98	2.64	3.42	4.01
2010	4.20	2.45	4.31	7.47	2.63	3.10	4.42
2011	4.78	2.18	4.89	8.48	2.92	3.23	5.05
2012	4.94	2.12	5.03	8.32	3.13	3.28	5.20
2013	4.64	1.81	4.74	7.67	2.72	3.19	4.89
2014	4.59	1.78	4.68	7.34	2.71	2.12	4.95
2015	4.77	1.66	4.86	7.64	2.71	1.80	5.10
2016	4.71	1.45	4.79	7.68	2.53	1.94	5.02
2017	4.90	1.34	4.98	7.94	2.70	1.82	5.25
2018	4.88	1.22	4.95	7.71	2.72	1.53	5.29
2019	4.88	1.04	4.95	7.28	3.03	1.49	5.31
2020	4.69	0.87	4.76	6.63	3.15	1.88	5.06
2021	4.71	1.28	4.77	6.49	3.27	2.08	5.03
2022	4.86	1.52	4.94	6.65	3.43	2.26	5.18
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	14.39	1.56	12.83	7.41	56.86	3.67	10.71
2009	22.50	1.42	21.08	13.51	77.04	4.12	18.38
2010	34.78	1.21	33.57	23.32	104.13	4.38	30.40
2011	53.43	1.00	52.43	36.88	153.26	5.38	48.05
2012	61.52	0.89	60.63	42.05	178.63	5.60	55.93
2013	54.18	0.71	53.47	40.58	135.72	5.39	48.79
2014	55.13	0.65	54.48	41.71	135.28	3.29	51.84
2015	60.69	0.56	60.13	47.41	139.77	2.30	58.39
2016	63.16	0.46	62.69	50.88	136.07	2.68	60.48
2017	73.59	0.41	73.18	58.54	162.71	2.80	70.79
2018	73.73	0.35	73.39	59.06	160.28	2.50	71.23
2019	71.39	0.28	71.11	54.19	172.51	2.47	68.92
2020	67.80	0.20	67.60	49.67	174.12	3.11	64.69
2021	68.50	0.31	68.19	54.93	113.53	3.30	65.20
2022	68.77	0.46	68.31	54.59	115.52	3.49	65.28

3.19 - Kolkata

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	9.33	1.49	7.84	0.73	8.60	2.43	6.90
2009	13.18	1.54	11.64	1.04	12.14	2.95	10.23
2010	17.87	1.46	16.40	0.72	17.14	3.11	14.76
2011	24.61	1.40	23.21	0.92	23.70	3.69	20.93
2012	26.17	1.18	24.99	0.90	25.27	3.40	22.77
2013	22.40	1.14	21.26	0.95	21.46	3.23	19.18
2014	22.15	1.08	21.07	1.77	20.38	1.71	20.44
2015	23.56	1.00	22.56	1.59	21.97	1.55	22.02
2016	25.93	0.91	25.03	1.79	24.15	1.45	24.48
2017	30.18	0.86	29.32	2.38	27.80	1.57	28.61
2018	29.61	0.79	28.81	3.28	26.32	2.02	27.58
2019	27.05	0.71	26.34	2.83	24.22	2.05	25.00
2020	26.35	0.62	25.73	1.88	24.47	2.49	23.87
2021	27.35	0.67	26.67	1.50	25.85	2.85	24.50
2022	24.67	0.90	23.77	1.53	23.14	2.64	22.03
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	3.11	3.78	3.00	0.95	3.84	3.05	3.12
2009	3.07	4.05	2.97	0.84	3.96	3.29	3.01
2010	2.88	3.96	2.81	0.36	4.08	2.94	2.86
2011	2.91	4.03	2.86	0.32	4.20	2.93	2.91
2012	2.75	3.68	2.72	0.27	4.07	2.61	2.77
2013	2.49	3.79	2.45	0.27	3.91	2.48	2.50
2014	2.37	3.78	2.33	0.47	3.67	1.42	2.51
2015	2.37	3.78	2.33	0.38	3.79	1.54	2.46
2016	2.45	3.60	2.42	0.40	3.95	1.34	2.58
2017	2.53	3.52	2.50	0.47	4.01	1.28	2.67
2018	2.44	3.47	2.42	0.62	3.84	1.54	2.55
2019	2.29	3.27	2.27	0.55	3.62	1.54	2.38
2020	2.24	3.24	2.22	0.36	3.73	1.84	2.29
2021	2.28	3.33	2.26	0.28	3.89	2.18	2.29
2022	2.11	3.62	2.08	0.29	3.58	2.08	2.12
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	64.22	10.24	53.98	#	#	16.71	47.51
2009	89.68	10.46	79.21	#	#	20.06	69.62
2010	120.18	9.84	110.34	#	#	20.92	99.27
2011	163.76	9.32	154.44	#	#	24.53	139.23
2012	172.22	7.78	164.44	#	#	22.38	149.84
2013	145.86	7.45	138.41	#	#	21.01	124.85
2014	142.67	6.94	135.73	#	#	11.00	131.66
2015	150.20	6.40	143.80	#	#	9.87	140.33
2016	163.56	5.73	157.82	#	#	9.16	154.39
2017	188.37	5.36	183.01	#	#	9.80	178.58
2018	182.97	4.89	178.08	#	#	12.50	170.47
2019	165.51	4.35	161.16	#	#	12.55	152.96
2020	159.69	3.75	155.94	#	#	15.07	144.63
2021	163.86	4.04	159.82	#	#	17.09	146.77
2022	143.38	5.23	138.16	#	#	15.36	128.02

3.20 - Chennai

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	8.44	1.38	7.06	0.12	8.32	1.99	6.44
2009	10.63	1.40	9.23	0.12	10.51	2.14	8.50
2010	12.81	1.47	11.35	0.12	12.69	2.30	10.52
2011	14.38	1.48	12.90	0.11	14.27	2.53	11.86
2012	Included in Tamilnadu after year 2011						
2013							
2014							
2015							
2016							
2017							
2018							
2019							
2020							
2021							
2022							

Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	2.81	3.49	2.70	0.16	3.71	2.50	2.92
2009	2.47	3.70	2.36	0.10	3.43	2.39	2.50
2010	2.06	3.97	1.94	0.06	3.02	2.17	2.04
2011	1.70	4.27	1.59	0.04	2.53	2.01	1.65
2012	Included in Tamilnadu after year 2011						
2013							
2014							
2015							
2016							
2017							
2018							
2019							
2020							
2021							
2022							

Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	103.90	16.94	86.96	#	102.41	24.54	79.36
2009	127.38	16.82	110.56	#	125.91	25.61	101.77
2010	149.41	17.10	132.32	#	148.00	26.80	122.61
2011	163.40	16.83	146.57	#	162.12	28.71	134.70
2012	Included in Tamilnadu after year 2011						
2013							
2014							
2015							
2016							
2017							
2018							
2019							
2020							
2021							
2022							

3.21 - Delhi

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	18.70	2.42	16.28	0.00	18.70	3.18	15.52
2009	24.50	2.52	21.98	0.00	24.50	3.59	20.92
2010	31.01	2.71	28.30	0.34	30.67	3.94	27.07
2011	41.66	2.84	38.82	1.10	40.56	4.19	37.47
2012	45.40	2.91	42.49	1.78	43.63	4.45	40.95
2013	43.39	2.96	40.43	2.13	41.25	4.19	39.20
2014	45.69	3.10	42.58	2.37	43.32	3.91	41.78
2015	49.33	3.14	46.19	2.22	47.11	3.96	45.37
2016	50.42	3.17	47.24	2.26	48.16	3.93	46.48
2017	56.57	3.22	53.35	2.54	54.03	3.93	52.65
2018	57.45	3.19	54.26	2.96	54.49	3.82	53.64
2019	55.39	3.26	52.14	1.61	53.79	3.69	51.70
2020	56.58	3.18	53.40	1.73	54.85	3.58	53.00
2021	58.10	3.55	54.55	2.17	55.94	3.48	54.62
2022	56.20	3.93	52.27	1.76	54.44	3.44	52.76
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	6.22	6.14	6.24	0.00	8.35	4.00	7.03
2009	5.70	6.64	5.61	0.00	8.00	4.00	6.15
2010	4.99	7.34	4.84	0.17	7.29	3.72	5.25
2011	4.92	8.17	4.78	0.39	7.19	3.32	5.20
2012	4.77	9.05	4.62	0.54	7.03	3.42	4.99
2013	4.83	9.81	4.66	0.61	7.52	3.22	5.10
2014	4.90	10.89	4.71	0.63	7.80	3.26	5.14
2015	4.95	11.81	4.76	0.53	8.12	3.95	5.06
2016	4.76	12.57	4.57	0.50	7.87	3.62	4.89
2017	4.73	13.21	4.56	0.51	7.80	3.22	4.91
2018	4.74	13.99	4.56	0.56	7.94	2.90	4.97
2019	4.68	15.01	4.49	0.31	8.04	2.77	4.92
2020	4.81	16.63	4.61	0.33	8.37	2.65	5.09
2021	4.84	17.54	4.62	0.40	8.43	2.65	5.11
2022	4.82	15.82	4.58	0.34	8.41	2.70	5.07
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	110.05	14.24	95.81	#	#	18.72	91.33
2009	140.18	14.42	125.75	#	#	20.52	119.66
2010	172.49	15.08	157.41	#	#	21.93	150.57
2011	225.25	15.35	209.90	#	#	22.64	202.62
2012	245.48	15.75	229.73	#	#	24.06	221.43
2013	221.64	15.13	206.51	#	#	21.39	200.25
2014	226.84	15.41	211.43	#	#	19.41	207.43
2015	237.99	15.16	222.84	#	#	19.10	218.89
2016	236.29	14.86	221.43	#	#	18.44	217.86
2017	257.76	14.68	243.08	#	#	17.90	239.86
2018	254.49	14.14	240.35	#	#	16.91	237.58
2019	238.57	14.03	224.55	#	#	15.91	222.66
2020	236.99	13.32	223.67	#	#	14.98	222.01
2021	282.01	17.23	264.78	#	#	16.89	265.12
2022	267.64	18.70	248.93	#	#	16.37	251.27

3.22 - Mumbai

Telecom Subscribers (In Million)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	16.32	2.69	13.63	0.00	16.32	4.03	12.29
2009	22.11	2.88	19.23	0.00	22.11	4.47	17.64
2010	29.43	2.95	26.48	0.00	29.43	4.65	24.78
2011	37.79	2.99	34.80	0.00	37.79	4.75	33.04
2012	39.29	3.01	36.28	0.00	39.29	4.84	34.45
2013	33.36	2.99	30.37	0.13	33.23	4.27	29.09
2014	33.95	3.06	30.89	0.35	33.61	3.00	30.95
2015	33.73	3.06	30.67	0.68	33.06	3.14	30.59
2016	34.84	3.04	31.80	0.84	34.00	3.13	31.71
2017	39.62	3.04	36.58	1.40	38.23	3.16	36.46
2018	39.51	2.99	36.52	1.85	37.66	3.09	36.42
2019	40.93	2.92	38.01	1.64	39.29	3.00	37.93
2020	40.69	2.86	37.83	2.12	38.57	2.88	37.81
2021	40.71	3.06	37.65	1.52	39.19	2.72	37.99
2022	37.36	3.09	34.27	1.12	36.24	2.49	34.87
Percentage Share to Total Subscribers in India (%)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	5.43	6.81	5.22	0.00	7.28	5.06	5.56
2009	5.15	7.59	4.91	0.00	7.22	4.99	5.19
2010	4.74	7.97	4.53	0.00	7.00	4.39	4.81
2011	4.47	8.61	4.29	0.00	6.70	3.77	4.59
2012	4.13	9.36	3.95	0.00	6.33	3.72	4.20
2013	3.71	9.88	3.50	0.04	6.05	3.28	3.79
2014	3.64	10.75	3.42	0.09	6.05	2.50	3.81
2015	3.39	11.52	3.16	0.16	5.70	3.13	3.42
2016	3.29	12.05	3.07	0.19	5.56	2.88	3.34
2017	3.32	12.47	3.13	0.28	5.51	2.59	3.40
2018	3.26	13.11	3.07	0.35	5.49	2.34	3.37
2019	3.46	13.46	3.27	0.32	5.87	2.25	3.61
2020	3.46	14.95	3.27	0.41	5.88	2.13	3.63
2021	3.39	15.10	3.19	0.28	5.90	2.07	3.55
2022	3.20	12.47	3.00	0.22	5.60	1.96	3.35
Teledensity (per 100 Inhabitants)							
At the end of March	Total	Wireline	Wireless	Rural	Urban	Public	Private
2008	83.48	13.74	69.74	#	#	20.61	62.87
2009	110.52	14.40	96.12	#	#	22.34	88.18
2010	143.71	14.38	129.33	#	#	22.70	121.01
2011	180.44	14.29	166.16	#	#	22.70	157.75
2012	187.62	14.37	173.25	#	#	23.11	164.50
2013	152.44	13.64	138.80	#	#	19.52	132.92
2014	151.90	13.71	138.19	#	#	13.44	138.45
2015	147.81	13.42	134.39	#	#	13.77	134.04
2016	149.60	13.05	136.55	#	#	13.45	136.16
2017	166.77	12.80	153.96	#	#	13.30	153.47
2018	163.01	12.34	150.67	#	#	12.73	150.28
2019	165.62	11.82	153.81	#	#	12.15	153.48
2020	161.48	11.35	150.14	#	#	11.42	150.06
2021	158.26	11.88	146.38	#	#	10.57	147.69
2022	139.96	11.59	128.36	#	#	9.33	130.63

4 – Operator Wise Statistics

Table 4.1 - Number of Subscribers (Public & Private Sector Operators)

(In Million)

At the end of March	Total - PSUs	Total Private	Grand Total
2008	79.55	220.94	300.49
2009	89.55	340.18	429.73
2010	105.87	515.41	621.28
2011	126.00	720.33	846.33
2012	130.27	821.08	951.35
2013	130.11	767.91	898.02
2014	120.05	812.96	933.02
2015	100.34	895.79	996.13
2016	108.65	950.68	1059.33
2017	122.18	1072.81	1194.99
2018	131.66	1080.14	1211.80
2019	133.51	1049.90	1183.41
2020	134.97	1041.82	1176.79
2021	131.16	1069.72	1200.88
2022	127.10	1039.74	1166.84

Table 4.2 - Share of Public & Private Sector Operators in Total Subscribers (%)

At the end of March	PSUs	Private
2008	26.47	73.53
2009	20.84	79.16
2010	17.04	82.96
2011	14.89	85.11
2012	13.69	86.31
2013	14.49	85.51
2014	12.87	87.13
2015	10.07	89.93
2016	10.26	89.74
2017	10.22	89.78
2018	10.86	89.14
2019	11.28	88.72
2020	11.47	88.53
2021	10.92	89.08
2022	10.89	89.11

Source - DOT

Table 4.3 - PSU Telecom Subscribers in India (2008-2022)

(In Million)

At the end of March	BSNL	MTNL
2008	72.34	7.21
2009	81.49	8.06
2010	97.28	8.59
2011	117.06	8.94
2012	120.98	9.29
2013	121.65	8.46
2014	113.14	6.91
2015	93.24	7.10
2016	101.58	7.06
2017	115.09	7.09
2018	124.75	6.90
2019	126.81	6.70
2020	128.52	6.45
2021	124.96	6.20
2022	121.17	5.93

Table 4.4 - PSU Operators' percent share to Total (All Operators) (2008-2022)

At the end of March	BSNL	MTNL
2008	24.07	2.40
2009	18.96	1.87
2010	15.66	1.38
2011	13.83	1.06
2012	12.72	0.98
2013	13.55	0.94
2014	12.13	0.74
2015	9.36	0.71
2016	9.59	0.67
2017	9.63	0.59
2018	10.29	0.57
2019	10.72	0.57
2020	10.92	0.55
2021	10.41	0.52
2022	10.38	0.51

Source - DOT

Table 4.5 - Subscribers of Private Operators in India (2008-2022)

(In Million)

At the end of March	Bharti Airtel	Reliance communications	Reliance -Jio	Vodafone *	TATA	Idea*	Aircel	Loop/BPL mobile	Quadrant/HFCL	SISTEMA	Telewings/Uninor	Stel	Etisalat DB Telcom	Videocon
2008	64.27	46.67		44.13	25.05	28.21	10.61	1.29	0.45	0.26	0.00	0.00	0.00	0.00
2009	96.65	73.77		68.77	36.04	43.02	18.48	2.16	0.55	0.73	0.00	0.00	0.00	0.00
2010	130.69	103.60	Started	100.86	67.10	63.82	36.86	2.84	0.50	3.82	4.26	1.01	0.00	0.03
2011	165.50	136.95	services	134.57	90.42	89.50	54.84	3.09	1.66	10.10	22.79	2.82	0.97	7.11
2012	184.55	154.32	from	150.48	83.19	112.72	62.57	3.27	1.53	15.85	42.43	3.43	0.78	5.95
2013	191.48	124.22	October,	152.39	67.92	121.61	60.07	3.01	1.56	11.96	31.68	0.00	0.00	2.01
2014	208.75	112.13	2016	166.62	64.55	135.79	70.15	2.90	2.39	9.09	35.61	0.00	0.00	4.99
2015	229.43	110.65		183.88	67.99	157.81	81.40	0.00	2.96	8.92	45.62	0.00	0.00	7.13
2016	254.90	103.58		198.04	61.82	175.07	87.09	0.00	3.42	7.75	52.45	0.00	0.00	6.56
2017	277.51	84.68	108.68	209.20	50.74	195.37	90.90	0.00	0.26	4.97	50.49	0.00	0.00	0.00
2018	308.12	1.11	186.56	222.92	33.07	211.21	78.92	0.00	0.24	0.00	37.98	0.00	0.00	0.00
2019	329.36	0.75	306.72	395.17	17.68	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00
2020	332.21	0.52	387.52	319.62	1.77	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00
2021	357.17	0.22	426.25	284.23	1.63	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00
2022	366.18	0.18	410.17	261.35	1.60	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00

Table 4.6 - Private Operators' Subscriber percent share to Total (All Operators) (2008-2022)

At the end of March	Bharti Airtel	Reliance communications	Reliance -Jio	Vodafone*	TATA	Idea*	Aircel	Loop/BPL mobile	Quadrant/HFCL	SISTEMA	Telewings/Uninor	Stel	Etisalat DB Telcom	Videocon
2008	21.39	15.53		14.68	9.39	9.39	3.53	0.43	0.15	0.09	0.00	0.00	0.00	0.00
2009	22.49	17.17		16.00	10.01	10.01	4.30	0.50	0.13	0.17	0.00	0.00	0.00	0.00
2010	21.03	16.68	Started	16.23	10.27	10.27	5.93	0.46	0.08	0.62	0.69	0.16	0.00	0.01
2011	19.56	16.18	services	15.90	10.58	10.58	6.48	0.37	0.20	1.19	2.69	0.33	0.11	0.84
2012	19.40	16.22	from	15.82	11.85	11.85	6.58	0.34	0.16	1.67	4.46	0.36	0.08	0.63
2013	21.32	13.83	October,	16.97	13.54	13.54	6.69	0.33	0.17	1.33	3.53	0.00	0.00	0.22
2014	22.37	12.02	2016	17.86	14.55	14.55	7.52	0.31	0.26	0.97	3.82	0.00	0.00	0.53
2015	23.03	11.11		18.46	15.84	15.84	8.17	0.00	0.30	0.90	4.58	0.00	0.00	0.72
2016	24.06	9.78		18.69	16.53	16.53	8.22	0.00	0.32	0.73	4.95	0.00	0.00	0.62
2017	23.22	7.09	9.09	17.51	4.25	16.35	7.61	0.00	0.02	0.42	4.23	0.00	0.00	0.00
2018	25.43	0.09	15.40	18.40	2.73	17.43	6.51	0.00	0.02	0.00	3.13	0.00	0.00	0.00
2019	27.83	0.06	25.92	33.39	1.49	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
2020	28.23	0.04	32.93	27.16	0.15	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
2021	29.74	0.02	35.49	23.67	0.14	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
2022	31.38	0.02	35.15	22.40	0.14	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00

Source - DOT

Note: Aircel mobile data is till February 2018

**Subscription figure for Vodafone and Idea as a merged entity since 2019*

5 – Financials of Telecom Operators

5.1 - Gross Revenue (GR) and Adjusted Gross Revenue (AGR) for the quarter ended 31st Mar., 2022 of F.Y. 2021-22

(Figures are ₹ in crore)

Name of Company	Circle	License	Gross Revenue	AGR
AT & T Global Network Services India Pvt. Ltd.	All India	NLD	15.99	15.99
	All India	ISP	15.35	15.35
	All India	ILD	208.59	208.59
	All India	VNO	3.02	-3.73
Bharti Airtel Ltd.	AP	UL	1,822.73	1,626.49
	Assam	UASL	531.11	413.15
	Bihar	UASL	1,819.67	1144.89
	TN & Chennai	UASL	1,689.74	1,502.57
	Delhi	UL	1,417.41	759.10
	Gujarat	UASL	810.88	604.32
	Haryana	UASL	425.48	291.71
	HP	UL	195.67	148.34
	J&K	UASL	276.45	253.48
	Karnataka	UL	1,982.05	1,585.12
	Kerala	UASL	491.34	414.34
	Kolkata	UL	322.35	237.76
	MP	UASL	782.04	633.98
	Maharashtra	UASL	1385.39	1153.19
	Mumbai	UASL	772.22	460.58
	Orissa	UASL	553.27	422.58
	Punjab	UL	779.68	598.78
	UP-East	UASL	1,776.70	1227.82
	UP-West	UASL	1018.49	749.74
	West Bengal	UASL	749.59	544.63
	All India	NLD	2,490.69	2,451.99
	All India	ILD	1,045.96	446.12
	All India	ISP	1,558.35	1549.03
	All India	VSAT	1.18	1.17
Bharti Hexacom Ltd.	North East	UL	362.42	289.08
	Rajasthan	UL	1189.62	943.50

Name of Company	Circle	License	Gross Revenue	AGR
BSNL	AP	UL	307.25	270.91
	Assam	UL	47.22	29.13
	Bihar	UL	117.60	35.83
	Kolkata	UL	85.91	62.71
	Chennai	UL	0.00	0.00
	Gujarat	UL	170.45	124.85
	Haryana	UL	41.90	19.69
	HP	UL	33.12	21.47
	J&K	UL	42.69	25.34
	Karnataka	UL	245.63	139.45
	Kerala	UL	187.49	166.99
	MP	UL	958.57	61.72
	Maharashtra	UL	305.71	107.73
	North East	UL	99.40	16.26
	Orissa	UL	87.31	50.02
	Punjab	UL	234.27	128.66
	Rajasthan	UL	114.20	78.75
	Tamilnadu	UL	226.52	148.18
	UP-East	UL	351.30	77.35
	UP-West	UL	34.79	33.23
	Delhi	UL	32.29	26.04
	Mumbai	UL	204.89	64.69
	West Bengal	UL	340.61	61.58
	All India	NLD	1119.58	706.47
	All India	ILD	25.03	19.35
	All India	ISP	1394.91	1272.81
	All India	VSAT	0.65	0.65
		others	44.67	44.67
Quadrant Televentures Ltd	Punjab	UL	63.86	-5.53
	Punjab	ISP	51.03	-
MTNL	Delhi	Basic+WLL	158.38	68.81
	Mumbai	Basic+WLL	114.49	114.42
	Delhi	Mobile	-	-
	Mumbai	Mobile	-	-
	Delhi & Mumbai	ISP	44.56	44.56
	Delhi & Mumbai	NLD	0.03	0.030
Rail Tel Corporation of India Ltd.	All India	NLD	147.24	147.24
	All India	UL-ISP-A	99.42	99.42
	All India	ILD	-	-

Name of Company	Circle	License	Gross Revenue	AGR
Tata Teleservices Ltd.	AP	UL	55.64	48.06
	Assam	UL	-	-
	Bihar	UL	3.67	1.34
	Delhi	UL	63.94	52.13
	Gujarat	UL	31.92	26.45
	Haryana	UL	10.49	8.37
	HP	UL	0.80	0.44
	J&K	UL	-	-
	Karnataka	UL	150.80	100.57
	Kerala	UL	7.04	5.30
	Kolkata	UL	15.48	12.75
	MP	UL	6.88	5.11
	North East	UL	-	-
	Orissa	UL	3.41	2.35
	Punjab	UL	5.67	3.88
	Rajasthan	UL	7.49	5.27
	TN (inc.Ch)	UL	44.71	38.90
	UP-East	UL	4.46	1.48
	UP-West	UL	3.22	1.19
	West Bengal	UL	2.43	1.36
	All India	NLD	66.99	64.81
Tata Teleservices (Maharashtra) Ltd.	Maharashtra	UL	77.31	68.80
	Mumbai	UL	204.90	149.99
	Maharashtra	ISP-IT	-	-
Tata Communications Ltd.	All India	NLD	1377.97	677.1
	All India	ILD	186.45	50.01
	All India	IP-II	0	0
	All India	ISP	437.85	429.65
Vodafone Idea Ltd.	Mumbai	UL	860.49	417.01
	Delhi	UL	862.38	310.80
	Kerala	UASL	816.32	696.35
	Maharashtra	UASL	1,175.27	902.91
	Tamilnadu	UASL	883.09	681.05
	Kolkata	UL	287.44	198.92
	AP	UASL	533.20	458.67
	Chennai	UASL	-	-
	Karnataka	UASL	420.42	286.94
	Punjab	UASL	392.08	274.58
	UP-West	UASL	672.80	381.10
	West Bengal	UASL	513.26	314.83
	All India	NLD	2,179.58	2,168.93
	All India	ILD	757.72	241.54
	Haryana	UL	371.32	180.00
	Rajasthan	UASL	467.40	281.03
	UP-East	UASL	735.20	288.56
	Gujarat	UASL	1,129.44	838.27
	Bihar	UASL	298.89	97.88
	MP	UASL	622.72	440.95
	Assam	UASL	90.28	62.69
	North East	UASL	48.30	31.55
	J&K	UASL	15.24	11.53
	Orissa	UASL	61.31	39.02
	HP	UASL	28.23	14.93
	All India	ISP	84.77	1.15

Name of Company	Circle	License	Gross Revenue	AGR
Power Grid Corportation of India Ltd.	All India	NLD	160.98	160.98
	All India	ISP	9.79	9.79
Reliance Jio Infocomm Ltd.	AP	UL	1,597.19	1,513.74
		PMRTS	-	-
	Assam	UL	481.68	477.83
		PMRTS	-	-
	Bihar	UL	1,747.24	1,728.50
		PMRTS	-	-
	TN & Chennai	UL	1,363.42	1,352.90
		PMRTS	-	-
	Delhi	UL	1133.36	904.19
		PMRTS	-	-
	Gujarat	UL	1,382.23	1,306.64
		PMRTS	-	-
	Haryana	UL	417.85	411.41
		PMRTS	-	-
	HP	UL	200.54	197.81
		PMRTS	-	-
	Northeast	UL	231.21	229.18
		PMRTS	-	-
	J&K	UL	266.96	262.14
		PMRTS	-	-
	Karnataka	UL	1064.00	928.23
		PMRTS	-	-
	Kerala	UL	579.89	573.45
		PMRTS	-	-
	Kolkata	UL	488.46	305.73
		PMRTS	-	-
	MP	UL	1,812.32	1,798.94
		PMRTS	-	-
	Maharashtra	UL	2,009.29	1,891.63
		PMRTS	-	-
	Mumbai	UL	687.53	525.33
		PMRTS	-	-
	Orissa	UL	735.90	730.18
		PMRTS	-	-
	Punjab	UL	608.48	600.66
		PMRTS	-	-
	UP-East	UL	1,580.54	1,484.75
		PMRTS	-	-
	UP-West	UL	1053.07	1043.74
		PMRTS	-	-
	Rajasthan	UL	1,218.70	1207.01
		PMRTS	-	-
	West Bengal	UL	1194.00	1185.90
		PMRTS	-	-
	All India	NLD	367.64	279.61
	All India	ILD	398.41	83.17
	All India	ISP	100.37	100.37
	All India	VSAT	-	-
	All India	Resale of IPLC	-	-
	All India	INSAT-MSS	-	-
Atria Convergence Technologes Pvt. Ltd.	All India	ISP	550.98	6.88
Hathway Cable & Datacom Ltd.	All India	ISP	163.46	157.25

Source:TRAI, Statement of GR, AGR, License Fee and Spectrum Usage Charges for the quarter ended 31st March, 2022 of F.Y. 2021-22

6 – Telecom Revenue

Table 6.1 - Revenue from Telecom Services (₹ crore) (2007-2022)

Year ending	Telecom Sector #		Access Services #		Licence Fee@	Spectrum Usage Charges (SUC)$	Spectrum Auction related Proceeds$
	Gross Revenue (March Qtr. Ending)	Adjusted Gross Revenue (March Qtr. Ending)	Adjusted Gross Revenue (March Qtr. Ending)	ARPU per month (In ₹) (March Qtr. Ending)			
2007	-	-	-	-	7037.92	-	-
2008	-	-	-	-	8855.24	-	-
2009	40444.66	29725.37	-	-	9511.00	-	-
2010	40265.12	28829.53	23386.04	132.00	9778.52	-	-
2011	45513.05	31470.63	24500.33	100.00	10286.44	3435.00	106262.26*
2012	49242.99	34457.07	27408.03	97.24	11790.93	5183.00	1722.24
2013	54283.78	35279.50	27801.94	103.66	11456.48	5690.00	Nil
2014	60716.21	41016.13	31922.39	115.28	12955.00	6884.00	18267.00
2015	65226.73	45157.78	35938.26	121.81	12358.00	7051.00	10791.00
2016	68335.39	48379.00	39885.55	126.91	15771.00	7622.00	28243.00
2017	63315.18	40831.33	31594.91	89.34	15615.00	7048.00	46653.00
2018	62198.26	35697.24	25448.09	71.62	13262.00	4984.00	11860.00
2019	58414.36	35932.44	26095.71	72.49	11134.00	4028.00	24894.00
2020	67533.74	44940.32	34495.87	97.64	39648.00	11386.00	24947.00
2021	66783.75	48587.40	38607.95	NA	15273.00	5975.49	21949.80
2022	76,386.83	58886.29	46421.09	NA	16630.00	7517.48	60811.25

- : Not Available * Entire bid amount was received upfront.

Source- # : Quarterly Performance Indicator Reports of TRAI, @ : Annual Reports of DOT [Dir (LFA-III)], $ O/o DDG (WPF) - AO (WF), DoT

Table 6.2 - Revenue from Telecom Services (2007-2022)

Year	ARPU (₹/ subscriber/ month) March Qtr. Ending (in₹)#		Gross Revenue (₹crore)*	Adjusted Gross Revenue (₹crore)*	Wireless Data Revenue (₹crore)*	Average revenue realization per subscriber for Per GB wireless data (in ₹) *	Average Revenue for wireless data usage per data subscriber per month (in ₹) *
	GSM	CDMA					
2007	298.00	202.00	NA	NA	NA	NA	NA
2008	264.00	159.00	NA	NA	NA	NA	NA
2009	205.00	99.00	NA	NA	NA	NA	NA
2010	131.00	76.00	NA	NA	NA	NA	NA
2011	100.00	66.00	NA	NA	NA	NA	NA
2012	97.37	75.29	NA	NA	NA	NA	NA
2013	105.00	95.25	NA	NA	NA	NA	NA
2014	113.44	104.98	NA	NA	22,265	268.97	71.25
2015	120.68	108.21	260,601	184,636	31,120	226.3	90.03
2016	124.85	103.54	279,591	198,207	35,079	75.57	89.18
2017	82.68	131.34	255,655	160,814	38,882	19.35	79.98
2018	76.04	79.32	237,417	144,446	54,671	11.78	90.02
2019	71.39		243,705	153,272	59,334	7.77	76.59
2020	91.49		274,208	182,398	113,156	10.93	128.61
2021	103.58		268,580	208,583	135,175	9.96	139.94
2022	127.17		NA	NA	NA	NA	NA

Source- #Quarterly Performance Indicator Reports of TRAI; *Yearly Performance Indicator Reports of TRAI

* Calander Year Note : NA - Not Available; Wireless = GSM+CDMA

Table 6.3 - Composition of ARPU per month and %age Share of Revenue - Wireless Service (In ₹)

S.No.	Item	2022	
		Revenue (excl. service tax) per subscriber per month (In ₹)	%age share
1	Rental Revenue	0.79	0.59
2	Revenue from Calls	15.02	11.14
3	Revenue from SMS	0.12	0.09
4	Revenue from data usage	114.62	85.00
5	Revenue from other VAS	1.37	1.02
6	Other Revenue	2.14	1.59
7	Revenue from Out roamers (Outside HAS)	0.78	0.58
8	**Total Revenue from subscribers**	**134.84**	**100.00**
9	Net inter-operator settlement charges receivable*	-7.67	
10	**Net Revenue (ARPU) per month**	**127.17**	

Source: TRAI - Quarterly Performance Indicators Report *Includes inter-connect usage charges & Roaming Settment Charges

Table 6.4 - Average Revenue Per User (ARPU) per month (₹) - 2021

Category	Postpaid		Prepaid		Blended	
	2020	2021	2020	2021	2020	2021
Circle A	264.11	232.74	99.82	116.53	107.87	123.65
Circle B	237.07	172.23	86.06	97.88	89.11	100.24
Circle C	182.20	166.23	86.35	102.63	90.37	106.28
Metro	199.80	172.18	58.31	74.58	80.55	92.59
All India	**226.83**	**192.22**	**88.37**	**103.00**	**94.87**	**108.40**

Note: Categories assigned to circles' have been defined in Annexure-II

Source: TRAI, Yearly Performance Indicators of Indian Telecom Sector - 2021.

Table 6.5 - Composition of Average Revenue Per User (ARPU) per month (₹) - 2021

Sl.	Item	Revenue (excl. service tax) per subscriber per month for the Year 2020	Revenue (excl. service tax) per subscriber per month for the Year 2020
1	Rental Revenue	0.95	0.65
2	Revenue from calls	17.72	15.20
3	Revenue from SMS	0.59	0.21
4	Revenue from data usage	81.81	96.71
5	Revenue from VAS	1.46	1.40
6	Other revenue	3.47	2.30
7	Revenue from Outroamers (outside HSA)	0.68	0.57
8	**Total revenue from subscribers**	**106.68**	**117.05**
9	Net inter-operable settlement charges receivable	-11.8	-8.65
10	**Net Revenue (ARPU)**	**94.87**	**108.40**

Source: Yearly Performance Indicator Report, TRAI, 2020

7 – Base Transceiver Stations (BTS) & Telecom Tower Count for the country

Table 7.1 - LSA-wise Total Towers Count (Contd.)

Sl. No.	License Service Area	As on 31st March 2017							
		Cell On Wheels (COW)	Ground Based Mast (GBM)	Ground Based Tower (GBT)	Low Power BTS (LPBTS)	Roof top Pole (RTP)	Roof Top Tower (RTT)	Wall mount	Total Towers
1	**Andhra Pradesh**	99	639	18448	1338	6600	6969	17	**34110**
2	**Assam**	17	3	8311	43	260	1382	-	**10016**
3	**Bihar**	52	314	24303	464	558	3280	1	**28972**
4	**Delhi**	384	1173	1585	536	5961	8878	187	**18704**
5	**Gujarat**	119	2749	14277	195	4804	3524	64	**25732**
6	**Himachal Pradesh**	5	31	4102	111	237	475	1	**4962**
7	**Haryana**	47	82	7432	255	214	1756	-	**9786**
8	**Jammu & Kashmir**	81	79	6146	481	231	626	6	**7650**
9	**Karnataka**	43	323	16865	162	3510	7064	81	**28048**
10	**Kolkata**	9	145	2127	206	3043	2922	108	**8560**
11	**Kerala**	53	69	10590	153	657	4147	23	**15692**
12	**Mumbai**	26	372	1004	586	8899	2638	729	**14254**
13	**Maharashtra**	281	764	19788	396	3758	10560	32	**35579**
14	**Madhya Pradesh**	193	988	22963	206	1421	3869	1	**29641**
15	**North-East**	24	1	5254	21	171	891	-	**6362**
16	**Odisha**	21	103	13079	76	303	1315	-	**14897**
17	**Punjab**	169	539	9424	693	1679	4973	5	**17482**
18	**Rajasthan**	209	1337	17522	747	1080	2952	6	**23853**
19	**Tamil Nadu**	15	967	22852	242	2300	12320	38	**38734**
20	**Uttar Pradesh (East)**	82	721	23641	41	1255	4039	6	**29785**
21	**Uttar Pradesh(West)**	119	469	17619	628	931	3081	11	**22858**
22	**West Bengal**	60	59	15108	110	454	1586	-	**17377**
Grand Total		**2108**	**11927**	**282440**	**7690**	**48326**	**89247**	**1316**	**443054**

Source: Tarang Sanchar, DGT, DoT

Table 7.1 - LSA-wise Total Towers Count (Contd.)

Sl. No.	License Service Area	As on 31st March 2018							
		Cell On Wheels (COW)	Ground Based Mast (GBM)	Ground Based Tower (GBT)	Low Power BTS (LPBTS)	Roof top Pole (RTP)	Roof Top Tower (RTT)	Wall mount	Total Towers
1	**Andhra Pradesh**	146	780	19199	2606	6579	7044	13	**36367**
2	**Assam**	23	4	8711	110	272	1378	-	**10498**
3	**Bihar**	63	338	25422	2639	574	3365	1	**32402**
4	**Delhi**	591	1442	1671	1961	6665	9199	192	**21721**
5	**Gujarat**	152	3237	14595	500	4848	3411	76	**26819**
6	**Himachal Pradesh**	6	38	4003	291	228	441	1	**5008**
7	**Haryana**	92	141	7573	499	250	1828	-	**10383**
8	**Jammu & Kashmir**	94	85	6389	656	242	621	3	**8090**
9	**Karnataka**	67	399	16496	1087	3716	6805	75	**28645**
10	**Kolkata**	10	163	2209	1690	3091	3060	113	**10336**
11	**Kerala**	67	77	10596	277	749	4101	22	**15889**
12	**Mumbai**	51	499	991	1061	8982	2659	699	**14942**
13	**Maharashtra**	339	976	20198	669	3751	10256	36	**36225**
14	**Madhya Pradesh**	215	1167	23205	1002	1498	3805	2	**30894**
15	**North-East**	29	1	5532	77	169	885	1	**6694**
16	**Odisha**	59	127	13582	157	314	1309	-	**15548**
17	**Punjab**	211	785	9716	865	1760	4986	-	**18323**
18	**Rajasthan**	231	1619	18161	1009	950	2888	11	**24869**
19	**Tamil Nadu**	24	995	22235	790	2261	11702	64	**38071**
20	**Uttar Pradesh (East)**	130	1064	23222	173	1222	3947	3	**29761**
21	**Uttar Pradesh(West)**	150	527	18566	1446	952	3100	10	**24751**
22	**West Bengal**	83	77	16002	203	491	1567	2	**18425**
Grand Total		**2833**	**14541**	**288274**	**19768**	**49564**	**88357**	**1324**	**464661**

Source: *Source: Tarang Sanchar, DGT, DoT*

Table 7.1 - LSA-wise Total Towers Count (Contd.)

Sl. No.	License Service Area	As on 31st March 2019							
		Cell On Wheels (COW)	Ground Based Mast (GBM)	Ground Based Tower (GBT)	Low Power BTS (LPBTS)	Roof top Pole (RTP)	Roof Top Tower (RTT)	Wall mount	Total Towers
1	Andhra Pradesh	237	1045	21958	5309	6234	7194	7	**41984**
2	Assam	43	6	9849	381	290	1526	-	**12095**
3	Bihar	65	371	27820	5155	566	3529	1	**37507**
4	Delhi	659	1597	1773	4324	7141	9859	158	**25511**
5	Gujarat	193	4306	16757	2063	5101	3344	85	**31849**
6	Himachal Pradesh	11	52	4805	914	256	454	2	**6494**
7	Haryana	118	207	8542	1346	307	1931	-	**12451**
8	Jammu & Kashmir	127	103	7408	893	284	664	3	**9482**
9	Karnataka	93	509	18693	3864	4156	7366	76	**34757**
10	Kolkata	13	176	2582	2711	3298	3551	107	**12438**
11	Kerala	83	102	11119	661	943	4101	19	**17028**
12	Mumbai	88	605	1129	2456	8880	2458	378	**15994**
13	Maharashtra	393	1227	22531	2596	3877	10197	36	**40857**
14	Madhya Pradesh	316	1541	28775	3409	1733	4020	2	**39796**
15	North-East	36	25	6285	278	208	939	-	**7771**
16	Odisha	67	157	15067	385	352	1436	2	**17466**
17	Punjab	263	891	10244	1925	2042	4997	1	**20363**
18	Rajasthan	298	2212	20619	2209	1032	2994	23	**29387**
19	Tamil Nadu	64	1057	24344	1758	2374	12384	44	**42025**
20	Uttar Pradesh (East)	223	1515	24523	773	1260	4077	3	**32374**
21	Uttar Pradesh(West)	223	792	20050	2723	1093	3209	9	**28099**
22	West Bengal	125	82	18362	633	543	1702	3	**21450**
Grand Total		**3738**	**18578**	**323235**	**46766**	**51970**	**91932**	**959**	**537178**

Source: *Source: Tarang Sanchar, DGT, DoT*

Table 7.1 - LSA-wise Total Towers Count (Contd.)

Sl. No.	License Service Area	As on 31st March 2020							
		Cell On Wheels (COW)	Ground Based Mast (GBM)	Ground Based Tower (GBT)	Low Power BTS (LPBTS)	Roof top Pole (RTP)	Roof Top Tower (RTT)	Wall mount	Total Towers
1	**Andhra Pradesh**	328	1212	22888	6633	6495	7612	11	**45179**
2	**Assam**	47	9	11236	512	324	1639	-	**13767**
3	**Bihar**	100	438	32535	6035	892	4169	1	**44170**
4	**Delhi**	694	1759	1758	5713	7635	10132	156	**27847**
5	**Gujarat**	200	5771	17667	3625	5335	3407	76	**36081**
6	**Himachal Pradesh**	11	77	5326	1017	287	457	5	**7180**
7	**Haryana**	138	245	8875	1476	407	2098	-	**13239**
8	**Jammu & Kashmir**	136	132	7677	987	291	658	4	**9885**
9	**Karnataka**	114	686	20960	4705	4454	7728	73	**38720**
10	**Kolkata**	26	189	2784	3750	3407	3787	103	**14046**
11	**Kerala**	102	134	11712	807	1019	4174	23	**17971**
12	**Mumbai**	104	671	1202	3482	8430	2491	325	**16705**
13	**Maharashtra**	401	1523	24827	4586	4388	10722	37	**46484**
14	**Madhya Pradesh**	339	1896	31050	4081	2283	4158	2	**43809**
15	**North-East**	29	35	7732	346	248	954	1	**9345**
16	**Odisha**	158	163	16657	549	439	1528	2	**19496**
17	**Punjab**	328	932	10197	2360	2294	4849	2	**20962**
18	**Rajasthan**	339	2660	22243	2971	1084	3096	17	**32410**
19	**Tamil Nadu**	93	1226	26269	2325	2494	12940	34	**45381**
20	**Uttar Pradesh (East)**	219	1938	28496	1761	1265	4443	3	**38125**
21	**Uttar Pradesh(West)**	254	1045	21239	3143	1282	3445	10	**30418**
22	**West Bengal**	143	107	20723	970	638	1863	3	**24447**
Grand Total		**4303**	**22848**	**354053**	**61834**	**55391**	**96350**	**888**	**595667**

Source: *Source: Tarang Sanchar, DGT, DoT*

Table 7.1 - LSA-wise Total Towers Count (Contd.)

Sl. No.	License Service Area	As on 31st March 2021							
		Cell On Wheels (COW)	Ground Based Mast (GBM)	Ground Based Tower (GBT)	Low Power BTS (LPBTS)	Roof top Pole (RTP)	Roof Top Tower (RTT)	Wall mount	Total Towers
1	**Andhra Pradesh**	364	1396	23916	6797	8415	7618	27	**48533**
2	**Assam**	49	14	11542	580	681	1577	-	**14443**
3	**Bihar**	109	709	34788	6102	3984	4187	2	**49881**
4	**Delhi**	680	2006	1716	5719	10308	9506	178	**30113**
5	**Gujarat**	212	6360	18390	4248	7449	3434	75	**40168**
6	**Himachal Pradesh**	13	105	5665	1048	452	427	4	**7714**
7	**Haryana**	152	381	9418	1490	1286	2196	-	**14923**
8	**Jammu & Kashmir**	147	156	7645	979	330	689	4	**9950**
9	**Karnataka**	123	925	21986	5435	6170	7568	71	**42278**
10	**Kolkata**	28	209	2714	4307	4286	3757	98	**15399**
11	**Kerala**	117	171	12081	890	1315	4281	27	**18882**
12	**Mumbai**	103	703	1334	3278	8485	2471	292	**16666**
13	**Maharashtra**	414	2080	26200	5195	7520	11065	43	**52517**
14	**Madhya Pradesh**	344	2196	32976	4260	3901	4389	1	**48067**
15	**North-East**	32	44	7921	368	526	907	1	**9799**
16	**Odisha**	191	170	16915	689	1675	1439	3	**21082**
17	**Punjab**	353	1012	10588	2528	3182	4843	3	**22509**
18	**Rajasthan**	354	3166	23414	3204	1914	3096	18	**35166**
19	**Tamil Nadu**	109	1385	25324	2841	2785	11843	31	**44318**
20	**Uttar Pradesh (East)**	236	2640	30401	1970	2923	4462	3	**42635**
21	**Uttar Pradesh(West)**	280	1427	22742	3515	2844	3549	10	**34367**
22	**West Bengal**	168	139	21815	1180	1256	1840	6	**26404**
Grand Total		**4578**	**27394**	**369491**	**66623**	**81687**	**95144**	**897**	**645814**

Source: Tarang Sanchar, DGT, DoT

Table 7.1 - LSA-wise Total Towers Count

Sl. No.	License Service Area	As on 31st March 2022							
		Cell On Wheels (COW)	Ground Based Mast (GBM)	Ground Based Tower (GBT)	Low Power BTS (LPBTS)	Roof top Pole (RTP)	Roof Top Tower (RTT)	Wall mount	Total Towers
1	**Andhra Pradesh**	407	1634	25311	6547	10305	7865	83	**52152**
2	**Assam**	51	18	13178	573	1057	1625		**16502**
3	**Bihar**	111	982	39745	6006	6954	4607	3	**58408**
4	**Delhi**	733	2227	1775	5714	14553	9697	219	**34918**
5	**Gujarat**	211	6894	19599	3435	9255	3459	110	**42963**
6	**Himachal Pradesh**	17	112	6063	1019	679	435	6	**8331**
7	**Haryana**	167	416	9916	1424	1873	2222		**16018**
8	**Jammu & Kashmir**	159	186	8125	949	484	781	5	**10689**
9	**Karnataka**	128	1038	22710	4665	8561	7796	72	**44970**
10	**Kolkata**	34	243	2875	4133	5758	4007	98	**17148**
11	**Kerala**	124	239	12814	834	1629	4342	31	**20013**
12	**Mumbai**	92	785	1547	3023	10076	2528	292	**18343**
13	**Maharashtra**	428	2429	28417	5253	10697	11382	44	**58650**
14	**Madhya Pradesh**	363	2352	35048	4279	5240	4574	1	**51857**
15	**North-East**	33	56	8934	363	789	912	1	**11088**
16	**Odisha**	178	178	18135	628	2824	1560	3	**23506**
17	**Punjab**	412	1069	10977	2455	3837	4857	5	**23612**
18	**Rajasthan**	348	3550	25057	3074	2807	3185	17	**38038**
19	**Tamil Nadu**	122	1501	26441	2763	3576	11786	29	**46218**
20	**Uttar Pradesh (East)**	216	3080	34324	1963	4490	4680	2	**48755**
21	**Uttar Pradesh(West)**	308	1520	24785	3513	4630	3580	9	**38345**
22	**West Bengal**	187	160	23961	1167	2042	1992	7	**29516**
Grand Total		**4829**	**30669**	**399737**	**63780**	**112116**	**97872**	**1037**	**710040**

Source: Tarang Sanchar, DGT, DoT

Table 7.2 - LSA-wise and Technology-wise BTSs (Contd.)

Sl. No.	License Service Area	As on 31st March 2015, 2016 & 2017		
		2015	2016	2017
1	Andhra Pradesh	71213	92583	112633
2	Assam	16750	22475	28345
3	Bihar	47993	56592	65175
4	Delhi	40546	59521	75340
5	Gujarat	54303	71977	88450
6	Himachal Pradesh	8059	11174	14491
7	Haryana	21008	29509	36349
8	Jammu & Kashmir	12560	16641	21224
9	Karnataka	64185	88587	106465
10	Kolkata	23273	31210	38460
11	Kerala	38240	53158	76647
12	Mumbai	29691	41257	47463
13	Maharashtra	72997	97352	122459
14	Madhya Pradesh	52251	73211	85288
15	North-East	10500	14216	18524
16	Odisha	23188	30844	36887
17	Punjab	32872	43677	59848
18	Rajasthan	41550	52218	69946
19	Tamil Nadu	77373	102641	123602
20	Uttar Pradesh (East)	54350	72053	88680
21	Uttar Pradesh(West)	44004	53258	68840
22	West Bengal	32980	40002	50737
Grand Total		869886	1154156	1435853

Source: Tarang Sanchar, DGT, DoT

Table 7.2 - LSA-wise and Technology-wise BTSs (Contd.)

Sl. No.	License Service Area	As on 31st March 2018			
		2G BTSs	3G BTSs	4G-LTE	Total BTSs
1	**Andhra Pradesh**	46736	23208	62813	**132757**
2	**Assam**	14135	7373	14186	**35694**
3	**Bihar**	39968	12433	39201	**91602**
4	**Delhi**	24346	21886	42994	**89226**
5	**Gujarat**	33882	23625	50987	**108494**
6	**Himachal Pradesh**	5444	3433	7350	**16227**
7	**Haryana**	13197	10653	19354	**43204**
8	**Jammu & Kashmir**	10255	5302	11882	**27439**
9	**Karnataka**	38373	21598	56332	**116303**
10	**Kolkata**	12968	11150	18124	**42242**
11	**Kerala**	26346	21661	38119	**86126**
12	**Mumbai**	16832	10433	28607	**55872**
13	**Maharashtra**	49834	30535	64113	**144482**
14	**Madhya Pradesh**	35434	16052	44077	**95563**
15	**North-East**	9606	4940	8487	**23033**
16	**Odisha**	19290	7161	18695	**45146**
17	**Punjab**	22328	17392	36898	**76618**
18	**Rajasthan**	31105	17457	41765	**90327**
19	**Tamil Nadu**	49461	29525	63137	**142123**
20	**Uttar Pradesh (East)**	43057	22570	48853	**114480**
21	**Uttar Pradesh(West)**	31002	19020	41612	**91634**
22	**West Bengal**	26832	11684	29919	**68435**
Grand Total		**600431**	**349091**	**787505**	**1737027**

Source: Tarang Sanchar, DGT, DoT

Table 7.2 - LSA-wise and Technology-wise BTSs (Contd.)

Sl. No.	License Service Area	As on 31st March 2019			
		2G BTSs	3G BTSs	4G-LTE	Total BTSs
1	**Andhra Pradesh**	37865	24309	90770	**152944**
2	**Assam**	13735	7400	23348	**44483**
3	**Bihar**	28233	13852	69909	**111994**
4	**Delhi**	24022	22911	55223	**102156**
5	**Gujarat**	30738	25193	79159	**135090**
6	**Himachal Pradesh**	5485	3563	12503	**21551**
7	**Haryana**	10615	9177	28905	**48697**
8	**Jammu & Kashmir**	10555	5647	20782	**36984**
9	**Karnataka**	36756	22341	83420	**142517**
10	**Kolkata**	12256	11669	24150	**48075**
11	**Kerala**	24948	21452	51211	**97611**
12	**Mumbai**	15200	9111	36428	**60739**
13	**Maharashtra**	41639	31389	96734	**169762**
14	**Madhya Pradesh**	33807	17278	83673	**134758**
15	**North-East**	9387	4799	14679	**28865**
16	**Odisha**	17581	7907	33218	**58706**
17	**Punjab**	21550	17637	48888	**88075**
18	**Rajasthan**	27905	19972	69146	**117023**
19	**Tamil Nadu**	47644	31602	93263	**172509**
20	**Uttar Pradesh (East)**	34362	22803	79193	**136358**
21	**Uttar Pradesh(West)**	27056	19699	66120	**112875**
22	**West Bengal**	23757	13356	49632	**86745**
Grand Total		**535096**	**363067**	**1210354**	**2108517**

Source: Tarang Sanchar, DGT, DoT

Table 7.2 - LSA-wise and Technology-wise BTSs (Contd.)

Sl. No.	License Service Area	As on 31st March 2020			
		2G BTSs	3G BTSs	4G-LTE	Total BTSs
1	**Andhra Pradesh**	35391	23538	104715	**163644**
2	**Assam**	13353	6962	29335	**49650**
3	**Bihar**	30220	7804	91394	**129418**
4	**Delhi**	21959	12076	66281	**100316**
5	**Gujarat**	26307	14631	89335	**130273**
6	**Himachal Pradesh**	5385	3377	15002	**23764**
7	**Haryana**	10831	6643	32118	**49592**
8	**Jammu & Kashmir**	8718	5438	23245	**37401**
9	**Karnataka**	34265	11565	96495	**142325**
10	**Kolkata**	10401	6785	32281	**49467**
11	**Kerala**	21095	13379	53647	**88121**
12	**Mumbai**	14009	5660	40331	**60000**
13	**Maharashtra**	41274	24399	114972	**180645**
14	**Madhya Pradesh**	30933	12527	101242	**144702**
15	**North-East**	9322	4598	18465	**32385**
16	**Odisha**	17735	4727	40934	**63396**
17	**Punjab**	18346	9484	51681	**79511**
18	**Rajasthan**	26959	18127	79251	**124337**
19	**Tamil Nadu**	46039	22310	104925	**173274**
20	**Uttar Pradesh (East)**	32945	21618	101177	**155740**
21	**Uttar Pradesh(West)**	23336	13226	77286	**113848**
22	**West Bengal**	22825	13411	64898	**101134**
Grand Total		**501648**	**262285**	**1429010**	**2192943**

Source: Tarang Sanchar, DGT, DoT

Table 7.2 - LSA-wise and Technology-wise BTSs (Contd.)

Sl. No.	License Service Area	As on 31st March 2021			
		2G BTSs	3G BTSs	4G-LTE	Total BTSs
1	**Andhra Pradesh**	34955	18682	112748	**166385**
2	**Assam**	10985	5535	33794	**50314**
3	**Bihar**	29044	6091	102311	**137446**
4	**Delhi**	18431	12118	72856	**103405**
5	**Gujarat**	26855	10513	99095	**136463**
6	**Himachal Pradesh**	4983	1745	16790	**23518**
7	**Haryana**	11641	6661	35932	**54234**
8	**Jammu & Kashmir**	6735	1831	24362	**32928**
9	**Karnataka**	32814	6541	104527	**143882**
10	**Kolkata**	8244	1552	33363	**43159**
11	**Kerala**	21360	11039	56859	**89258**
12	**Mumbai**	11440	636	41717	**53793**
13	**Maharashtra**	42588	24004	126183	**192775**
14	**Madhya Pradesh**	31812	12245	110787	**154844**
15	**North-East**	7760	3238	21314	**32312**
16	**Odisha**	14929	3745	47468	**66142**
17	**Punjab**	18609	8930	56037	**83576**
18	**Rajasthan**	25905	11185	85113	**122203**
19	**Tamil Nadu**	35685	17679	109013	**162377**
20	**Uttar Pradesh (East)**	33637	14941	114819	**163397**
21	**Uttar Pradesh(West)**	24483	10941	87197	**122621**
22	**West Bengal**	20631	12918	71695	**105244**
Grand Total		**473526**	**202770**	**1563980**	**2240276**

Source: Tarang Sanchar, DGT, DoT

Table 7.2 - LSA-wise and Technology-wise BTSs

Sl. No.	License Service Area	As on 31st March 2022			
		2G BTSs	3G BTSs	4G BTSs	Total BTSs
1	**Andhra Pradesh**	36293	7669	123586	**167548**
2	**Assam**	11384	3086	38622	**53092**
3	**Bihar**	30709	6598	115287	**152594**
4	**Delhi**	18837	11956	79408	**110201**
5	**Gujarat**	27389	9769	105428	**142586**
6	**Himachal Pradesh**	5053	1331	17902	**24286**
7	**Haryana**	12022	6153	38285	**56460**
8	**Jammu & Kashmir**	6711	1738	25845	**34294**
9	**Karnataka**	32948	5059	109796	**147803**
10	**Kolkata**	8568	1588	36462	**46618**
11	**Kerala**	21859	10804	61015	**93678**
12	**Mumbai**	11389	604	44383	**56376**
13	**Maharashtra**	40625	14708	138181	**193514**
14	**Madhya Pradesh**	31922	11996	119444	**163362**
15	**North-East**	8185	2353	24327	**34865**
16	**Odisha**	15190	3718	52082	**70990**
17	**Punjab**	18822	6830	58735	**84387**
18	**Rajasthan**	26688	9315	91620	**127623**
19	**Tamil Nadu**	36767	12241	113356	**162364**
20	**Uttar Pradesh (East)**	35204	12766	125923	**173893**
21	**Uttar Pradesh(West)**	25424	9296	94397	**129117**
22	**West Bengal**	21147	8532	77220	**106899**
Grand Total		**483136**	**158110**	**1691304**	**2332550**

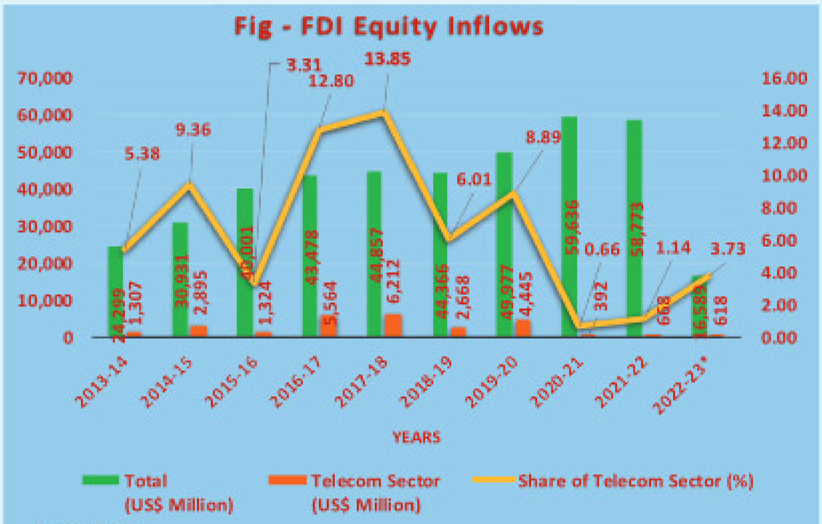
Source: Tarang Sanchar, DGT, DoT

8 – Foreign Direct Investment (FDI)

Table 8.1 - FDI EQUITY INFLOWS (April 2000 - March 2023*)

Year	Total (US$ Million)	Telecom Sector (US$ Million)	Share of Telecom Sector (%)
2000-01	2463	178	7.23
2001-02	4065	873	21.48
2002-03	2705	192	7.10
2003-04	2188	86	3.93
2004-05	3,219	118	3.67
2005-06	5,540	618	11.16
2006-07	12,492	477	3.82
2007-08	24,575	1,261	5.13
2008-09	31,396	2,549	8.12
2009-10	25,834	2,539	9.83
2010-11	21,383	1,665	7.78
2011-12	35,121	1,997	5.69
2012-13	22,423	304	1.36
2013-14	24,299	1,307	5.38
2014-15	30,931	2,895	9.36
2015-16	40,001	1,324	3.31
2016-17	43,478	5,564	12.80
2017-18	44,857	6,212	13.85
2018-19	44,366	2,668	6.01
2019-20	49,977	4,445	8.89
2020-21	59,636	392	0.66
2021-22	58,773	668	1.14
2022-23*	16,589	618	3.73

*Source - DPIIT, * Fact Sheet of DPIIT April-June, 2022*



Source: DPIIT

Table 8.2 - Country-wise FDI Equity Inflows in Telecommunications Sector- Top 5 countries (April 2000- March 2023*)					
					(in US $ million)
Year	**Mauritius**	**Singapore**	**Japan**	**Russia**	**U.S.A.**
2000-01	105.30	0.00	0.00	0.00	26.03
2001-02	835.05	0.62	1.46	0.00	8.09
2002-03	132.55	0.00	0.00	0.00	0.01
2003-04	61.21	0.06	0.00	0.00	5.39
2004-05	100.37	0.19	0.10	0.00	12.62
2005-06	540.90	0.82	52.74	0.00	11.36
2006-07	360.07	14.95	0.18	0.00	21.72
2007-08	1117.41	3.02	0.00	0.00	22.57
2008-09	1890.99	14.31	141.56	304.72	17.80
2009-10	1426.71	592.10	114.46	0.00	69.08
2010-11	339.56	825.67	3.14	89.76	48.13
2011-12	1822.75	85.96	4.52	0.00	24.96
2012-13	284.94	0.49	0.00	0.00	12.05
2013-14	95.73	1191.83	2.36	0.00	13.88
2014-15	2101.28	291.67	0.00	451.83	27.00
2015-16	787.29	373.39	85.79	0.31	35.95
2016-17	2854.66	1023.58	1574.58	0.00	3.24
2017-18	5966.61	18.08	177.76	0.00	12.40
2018-19	666.53	1886.22	0.62	0.00	15.20
2019-20	3004.47	1280.48	127.17	0.00	12.27
2020-21	5.36	354.88	0.00	0.00	2.92
2021-22	489.96	139.89	0.00	0.00	14.92
2022-23*	443.10	155.83	0.00	0.00	12.26
Total	**25432.80**	**8254.05**	**2286.45**	**846.62**	**429.84**

*Source - DPIIT, * Fact Sheet of DPIIT April-June, 2022*

Table 8.3 - Sector-wise FDI Equity Inflows in India- Top 5 Sectors (April 2000- March 2023*)					
					(in US $ million)
Year	SERVICES SECTOR (Fin.,Banking,Insurance,Non Fin/Business,0utsourcing,R&D ,Courier,Tech. Testing and Analysis, Other)	COMPUTER S0FTWARE& HARDWARE	TELECOMMUNICATIONS	TRADING	AUTOMOBILE INDUSTRY
2000-01	71.38	228.39	177.69	11.49	195.33
2001-02	187.95	419.39	873.23	43.27	235.76
2002-03	296.34	314.24	191.60	38.13	419.96
2003-04	271.15	368.32	86.49	31.12	119.09
2004-05	456.15	527.90	118.33	14.22	121.97
2005-06	548.61	1359.97	617.98	28.93	139.93
2006-07	4713.78	2613.33	476.51	114.65	260.72
2007-08	6986.17	1382.25	1260.70	345.02	656.1
2008-09	6183.49	1543.34	2548.63	643.64	1,150.03
2009-10	4174.53	871.86	2539.26	737.95	1,236.29
2010-11	3296.09	779.81	1664.50	498.04	1,299.41
2011-12	5215.98	796.35	1997.24	731.55	922.99
2012-13	4832.98	485.96	303.87	717.80	1,537.28
2013-14	2225.10	1126.27	1306.95	1343.39	1,517.28
2014-15	3250.03	2296.04	2894.94	2727.96	2,725.64
2015-16	6889.46	5904.36	1324.40	3845.32	2,526.82
2016-17	8684.07	3651.71	5563.69	2338.40	1,609.32
2017-18	6708.58	6153.20	6211.84	4348.13	2,089.53
2018-19	9157.54	6415.21	2667.91	4462.13	2,623.22
2019-20	7853.58	7673.32	4445.16	4573.82	2,824.03
2020-21	5060.22	26144.69	392.11	2608.22	1,637.44
2021-22*	7131.44	14461.35	668.17	4537.58	6,993.55
2022-23*	2572.58	3427.01	618.34	2033.24	690.68
Total	**96767.20**	**88944.27**	**38949.54**	**36774.00**	**33532.36**

*Source - DPIIT, * Fact Sheet of DPIIT April-June, 2022*

9 – Exports - Imports

Table 9.1 - India's Exports By Telecom Equipment From 2006-07 To 2021-22 (Quantity) (Contd.)

Hs Code	Commodity	Unit	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
85171110	PUSH BUTTON TYPE	NOS	170085	161754	144271	203521	515377	192651	114904	176572
85171190	OTHERS	NOS	137527	569818	894681	718037	1714270	1339047	633272	879918
85171210	PUSH BUTTON TYPE	NOS	-	-	187670	1116162	160112	237250	80457	1253329
85171290	OTHER	NOS	-	-	43467156	25834710	91963101	117321226	109861400	73188292
85171810	PUSH BUTTON TYPE	NOS	-	-	298376	36121	363902	303508	635818	245061
85171890	OTHER	NOS	-	-	565767	348347	81198	45427	139873	262456
85176100	BASE STATIONS	NOS	-	-	5844	3383	149	2528	2497	4806
85176210	PLCC EQUIPMENT	NOS	-	-	2730	1942	5429	20848	14030	8941
85176220	VOICE FREQUENCY TELEGRAPHY	NOS	-	-	519	474	175	8335	77	168
85176230	MODEMS (MODULATORS-DEMODULATORS)	NOS	-	-	12908	7030	4494	37537	36742	18889
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	NOS	-	-	1	-	2	117	106	23
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	NOS	-	-	1138	506	236	3293	10451	419
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	NOS	-	-	67	107	827	1595	1409	57
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	NOS	-	-	2773	4048	6046	10234	20102	22071
85176290	OTHER	NOS	-	-	132804	126172	199868	247983	333943	245541
85176910	ISDN TERMINALS	NOS	-	-	1181	666	9	1454	1364	1032
85176920	ISDN TERMINAL ADAPTERS	NOS	-	-	253	2135	16908	60494	331028	11543
85176930	ROUTERS	NOS	-	-	81392	30989	19544	34915	2011029	352976
85176940	X25 PADS	NOS	-	-	12	-	1201	-	2	-
85176950	SUBSCRIBER END EQUIPMENT	NOS	-	-	899	-	67	5	5	63
85176960	SET TOP BOXES FOR ACCESSING INTERNET	NOS	-	-	237296	475194	461302	378388	464219	771277
85176970	ATTACHMENTS FOR TELEPHONES	NOS	-	-	5351	20213	486	2233	15880	160022
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	NOS	-	-	181007	168385	198095	107035	165374	351338
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	NOS	-	-	1010611791	564927	200791	309761	321410	326259
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	KGS	-	-	1050745	3237787	15269877	13077262	9790680	11150280
85195000	TELEPHONE ANSWRNG MCHNS	NOS	-	-	6114	6143	197	6	228	2073
85235210	SIM CARDS	NOS	-	-	30610241	70504932	82184714	254824139	280283145	259103641
85255040	COMMUNICATION JAMMING EQUIPMENT	NOS	-	-	578	7		100	-	6
85256011	WALKIE TALKIE SET	NOS	-	-	1981	2981	9981	2390	10811	3965
85256012	MARINE RADIO COMMUNICATION EQPMNT	NOS	-	-	60	2	22717	70	23	2
85256013	AMATEUR RADIO EQUIPMENT	NOS	-	-	97	117	-	22	-	682
85256019	CORDLESS HANDSET	NOS	-	-	1257368	238864	69939	32388	12498	4990
85256091	VSAT TERMINALS	NOS	-	-	292	181	233	429	127	1371
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	NOS	-	-	4490	310	186	1506	974	213
85256099	OTHERS	NOS	-	-	58375	26967	16717	65416	94456	104183
85279911	RADIO PAGERS	NOS	-	-	10	96	480	87	-	-
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	NOS	17541	55045	197510	122606	8258	1088	1430	3485
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	NOS	116	60	3990	3891	550	31	1700	
85291019	DISH ANTENNA FR OTHR USE	NOS	886296	1160701	776128	301718	309958	229117	399325	897930
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	KGS	2835	1098	148798	1701	2000	10	653	19
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	NOS	9039	-	-	35	150	101	381	-
85291029	OTHR ANTENNA FR OTHR USE	NOS	319352	453789	472953	551794	435657	618873	376576	285314
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	NOS	261	469	9203	310	17108	38312	206841	6
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	NOS	5350	96	20295	40	400	100	-	3
85291099	AERIAL PARTS FR OTHR USE	NOS	539802	2163765	2545190	757273	266562	724732	412134	242356
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	NOS	116513	93485	134973	34049	161525	108018	104508	56677
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	NOS	21704	28857	9149	363	183687	41742	40354	43870
85299090	OTHE PARTS FR OTHR USE	NOS	2730414	4078436	3343133	2421985	1615268	1480811	1294787	1119965
85442010	CO-AXIAL CABLE	MTR	292441	1780114	749952	314281	768178	535530	670722	538053
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	MTR	1370548	2143441	2389266	3198816	1788286	4717727	3222760	1978942
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	MTR	-	-	449616	393030	122893	297	36814	32954
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	MTR	-	-	231214	50350	104670	138022	411883	115682
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	MTR	-	-	468	4005	74	31145	2640	3338
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	MTR	-	-	187516	402564	408648	561185	781832	1257932
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	MTR	-	-	205603	248364	27735	198	761	522
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	MTR	-	-	39833	293336	189210	1695146	1958078	1414050
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	MTR	-	-	6420	700	260	31255	7209	4000
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	MTR	-	-	17905558	8955708	3876171	2223170	2428476	2450695
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	MTR	2294580	2171374	5350740	4370778	2179527	2924584	2650087	4065379
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	KGS	656296	872049	2025541	4132177	5716827	6170762	10094052	11675987
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	NOS	-	-	-	-	-	-	-	-
85171219	MOBILE PHONES, PUSH BUTTON TYPE	NOS	-	-	-	-	-	-	-	-

Source: O/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

Table 9.1 - India's Exports By Telecom Equipment From 2006-07 To 2021-22 (Quantity)

Hs Code	Commodity	Unit	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
85171110	PUSH BUTTON TYPE	NOS	228511	154986	68416	52826	52631	80272	65824	26719
85171190	OTHERS	NOS	202150	140803	210790	180253	121400	364333	174257	964683
85171210	PUSH BUTTON TYPE	NOS	241464	297940	301347	97867	1033644	11891360	-	-
85171290	OTHER	NOS	9850133	1799300	1736159	2147731	16658991	32200083	557068	4472688
85171810	PUSH BUTTON TYPE	NOS	165181	181243	45871	16052	35144	83301	85273	111912
85171890	OTHER	NOS	310517	412625	573449	513420	839812	858477	452008	5347212
85176100	BASE STATIONS	NOS	2136	2762	2661	19383	4340	3234	2951	11625
85176210	PLCC EQUIPMENT	NOS	19635	16032	8020	6078	20879	3871	12547	2628
85176220	VOICE FREQUENCY TELEGRAPHY	NOS	277	13786	11606	10503	1515	528	242	2598
85176230	MODEMS (MODULATORS-DEMODULATORS)	NOS	20212	22107	90155	112042	223181	159298	50164	132907
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	NOS	1915	505	409	610	25	96	4	232
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	NOS	161	1458	6983	682	783	1778	798	111
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	NOS	1	263	216	1179	4309	2127	880	12482
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	NOS	22409	36711	65390	15066	15805	4791	4824	19763
85176290	OTHER	NOS	335028	646977	832898	1896510	1837145	2802094	3856753	4883747
85176910	ISDN TERMINALS	NOS	112	424	110	2955	82	98	404	160
85176920	ISDN TERMINAL ADAPTERS	NOS	6839	2705	2546	612	1948	7719	64423	43518
85176930	ROUTERS	NOS	164857	146674	26429	265291	253764	198444	-	-
85176940	X25 PADS	NOS	3	3	-	-	-	2	6117	1
85176950	SUBSCRIBER END EQUIPMENT	NOS	547	1	-	616	3885	3218	953	1547
85176960	SET TOP BOXES FOR ACCESSING INTERNET	NOS	124405	56359	184765	52483	78909	13376	8362	5921
85176970	ATTACHMENTS FOR TELEPHONES	NOS	3324	8601	1308	17486	6647	17732	6917	5828
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	NOS	384527	258052	221441	299816	1800241	1812212	3100156	6973685
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	NOS	250892	110757	354168	2585603	4163256	8902241	7098467	380076
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	KGS	9488103	5486936	9378820	4090599	3842461	2913470	3685120	10377162
85195000	TELEPHONE ANSWRNG MCHNS	NOS	62	89	10	1000	27	6	5	76
85235210	SIM CARDS	NOS	274294660	403043668	445600802	414594270	384866478	415749202	310127209	336765205
85255040	COMMUNICATION JAMMING EQUIPMENT	NOS	16	3	-	1002	-	-	22	352
85256011	WALKIE TALKIE SET	NOS	3641	2432	1882	1938	1688	1817	-	-
85256012	MARINE RADIO COMMUNICATION EQPMNT	NOS	46	9	2	4	4	40	-	-
85256013	AMATEUR RADIO EQUIPMENT	NOS	12	9	56	25763	137	647	-	-
85256019	CORDLESS HANDSET	NOS	10032	11480	23078	4008	688	952	-	-
85256091	VSAT TERMINALS	NOS	65	1360	472	350	-	1	-	-
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	NOS	82	17	768	35	34	27	-	-
85256099	OTHERS	NOS	104555	105302	69422	5164	2990	618	-	-
85279911	RADIO PAGERS	NOS	15	-	-	-	3635	195	-	-
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	NOS	22588	3882	2071	144	3969	783	11396	2951
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	NOS		3170	330	866	9089	907	4036	93
85291019	DISH ANTENNA FR OTHR USE	NOS	820567	1563411	421638	727682	869968	827208	1477259	552162
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	KGS	250	-	-	-	-	-	31	32138
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	NOS	-	-	-	10	-	-	84	61
85291029	OTHR ANTENNA FR OTHR USE	NOS	155276	169245	145583	601610	362798	239051	466269	127362
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	NOS	750	35	-	13	19	90	9	70585
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	NOS	4	-	-	1530	-	10	530	11
85291099	AERIAL PARTS FR OTHR USE	NOS	186071	169350	64910	706008	240593	142303	233414	278195
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	NOS	34006	22195	137816	53450	35218	15477	1391	16101
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	NOS	11517	31993	41751	5765079	3825256	8503209	1274	7765
85299090	OTHE PARTS FR OTHR USE	NOS	1007939	1103042	978088	3935931	10902423	22484545	26452117	33230119
85442010	CO-AXIAL CABLE	MTR	681271	1837137	574686	1816818	1861098	20985856	11229823	1257286
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	MTR	2501498	1889997	1722933	4293215	3352426	6125675	8112578	5790111
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	MTR	900	2324	4724	3350	4070	1882	1063	26017
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	MTR	125882	87244	70335	763727	804966	963708	833523	7074174
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	MTR	420	163	857	32077	299	1416	62810	86084
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	MTR	987503	1474194	1774274	11418672	13743564	13374424	21306688	66594094
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	MTR	8572	288	50296	210836	20177	20145	735276	482772
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	MTR	933695	857394	828994	3613506	5853756	6768407	28101313	101663020
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	MTR	4898	14000	9947	12050	7495	123067	10582	28367
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	MTR	3455086	3392927	5405296	29349747	49128687	74522027	67564945	102425194
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	MTR	3280274	2869277	2231863	17985927	37040073	24314291	66602871	143672966
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	KGS	11406306	9692487	12982139	16484352	13252271	10523083	14608412	40878873
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	NOS	-	-	-	-	-	-	-	28140170
85171219	MOBILE PHONES, PUSH BUTTON TYPE	NOS	-	-	-	-	-	-	-	2059202

Source: D/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

Table 9.2 - India's Exports By Telecom Equipment From 2006-07 To 2021-22 (₹ in lakhs) (Contd.)

Hs Code	Commodity	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
85171110	PUSH BUTTON TYPE	667.48	1349.94	1382.10	6539.57	5059.04	2623.08	3568.39	8730.27
85171190	OTHERS	1013.81	6208.29	9449.35	16501.12	58974.72	87033.32	34785.71	84096.31
85171210	PUSH BUTTON TYPE	-	-	6469.61	65005.95	7592.49	11227.54	3639.55	27035.89
85171290	OTHER	-	-	1052436.67	546230.30	1187651.03	1304376.50	1445073.39	1157788.91
85171810	PUSH BUTTON TYPE	-	-	726.31	260.55	4882.34	4784.10	6119.79	5122.39
85171890	OTHER	-	-	19778.98	7656.33	4291.28	1764.65	4302.48	20085.84
85176100	BASE STATIONS	-	-	3370.37	92.45	79.80	778.69	1280.32	3293.53
85176210	PLCC EQUIPMENT	-	-	459.76	469.82	3533.32	7317.29	2785.65	3829.08
85176220	VOICE FREQUENCY TELEGRAPHY	-	-	10.90	80.34	21.81	266.86	16.05	78.76
85176230	MODEMS (MODULATORS-DEMODULATORS)	-	-	1022.84	991.03	818.23	16322.02	2356.68	1590.99
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	-	-	0.23	-	23.00	5.06	644.85	26.26
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	-	-	259.50	78.77	52.14	131.14	73.81	61.30
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	-	-	26.36	20.51	69.41	265.15	139.61	286.81
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	-	-	1204.93	761.94	1192.35	2860.78	5131.73	5586.90
85176290	OTHER	-	-	10946.29	12768.28	12136.85	25816.59	38077.88	49216.82
85176910	ISDN TERMINALS	-	-	113.84	376.82	4.00	29.35	85.69	109.60
85176920	ISDN TERMINAL ADAPTERS	-	-	27.16	18.15	67.66	94.49	419.20	257.23
85176930	ROUTERS	-	-	534.72	452.33	307.29	762.69	1558.63	2303.53
85176940	X25 PADS	-	-	16.16	-	17.89	-	1.86	-
85176950	SUBSCRIBER END EQUIPMENT	-	-	20.71	-	32.82	0.86	22.22	27.52
85176960	SET TOP BOXES FOR ACCESSING INTERNET	-	-	27667.57	39338.90	31889.89	32053.16	37375.92	24451.48
85176970	ATTACHMENTS FOR TELEPHONES	-	-	423.73	47.05	11.30	75.87	759.97	1467.24
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	-	-	20521.12	20629.67	16188.35	21582.26	26250.77	48309.04
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	-	-	15369.22	19686.29	13709.46	21229.66	22882.88	18441.21
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	-	-	24526.12	77388.32	167767.76	358051.61	324807.21	355690.27
85195000	TELEPHONE ANSWRNG MCHNS	-	-	65.09	31.12	8.54	0.22	37.05	4.05
85235210	SIM CARDS	-	-	9118.59	18137.46	14691.68	36423.00	49605.05	52235.15
85255040	COMMUNICATION JAMMING EQUIPMENT	-	-	577.96	26.73	-	30.33	-	0.42
85256011	WALKIE TALKIE SET	-	-	703.07	615.69	214.77	225.45	455.47	526.20
85256012	MARINE RADIO COMMUNICATION EQPMNT	-	-	17.52	1.25	100.59	5.21	16.07	1.74
85256013	AMATEUR RADIO EQUIPMENT	-	-	23.34	1.18	-	3.00	-	57.13
85256019	CORDLESS HANDSET	-	-	43746.76	12666.16	3953.28	940.92	555.23	913.37
85256091	VSAT TERMINALS	-	-	158.43	61.17	63.22	45.99	170.15	179.28
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	-	-	1461.08	334.53	545.07	828.09	105.90	427.58
85256099	OTHERS	-	-	5072.14	2279.90	1954.77	3029.06	4416.44	5209.95
85279911	RADIO PAGERS	-	-	0.18	1.33	23.40	1.54	-	-
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	206.07	375.71	951.85	887.44	230.66	20.91	11.03	20.45
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	5.41	1.58	139.34	49.21	19.90	1.88	10.52	-
85291019	DISH ANTENNA FR OTHR USE	2782.27	3643.08	2170.85	2615.76	3373.79	2315.77	3933.15	11835.81
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	61.06	90.57	2873.66	7.67	19.19	0.14	19.94	8.85
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	26.45	-	-	0.05	1.58	0.27	3.45	-
85291029	OTHR ANTENNA FR OTHR USE	2340.76	3099.78	2987.42	3997.01	3889.77	4900.29	4507.75	2522.04
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	4.34	5.64	192.84	37.42	59.57	160.44	2371.45	0.13
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	3.99	4.27	37.73	2.12	1.28	6.90	-	0.03
85291099	AERIAL PARTS FR OTHR USE	9138.91	12403.10	10217.23	1821.81	1590.64	4697.11	7240.72	35435.24
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	394.19	468.46	5438.60	676.60	719.73	674.22	1252.51	592.92
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	76.39	66.34	81.23	8.27	744.76	1114.84	1868.65	2103.91
85299090	OTHE PARTS FR OTHR USE	55254.61	57505.67	52272.95	40407.03	37081.99	60771.14	55636.01	65531.42
85442010	CO-AXIAL CABLE	750.85	4271.09	2006.84	1207.70	2325.97	2180.24	3536.29	2858.57
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	3676.65	6651.35	9093.35	6026.31	8034.96	22150.07	12010.72	9425.81
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	-	-	1051.41	950.20	471.36	1.69	358.54	369.20
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	-	-	538.23	111.75	294.35	528.12	1602.99	729.55
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	-	-	11.44	9.71	6.49	164.60	26.13	14.60
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	-	-	2318.59	1484.32	3826.43	4449.74	7525.94	10139.66
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	-	-	689.21	553.31	114.76	13.83	4.82	33.53
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	-	-	146.10	738.38	909.79	3390.96	5842.97	6064.21
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	-	-	17.51	69.12	1.92	41.08	70.02	9.37
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	-	-	43626.62	21495.99	11651.60	9388.09	11014.30	14126.93
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	6659.03	5585.21	21040.47	19054.07	8259.80	13243.31	18692.22	21316.94
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	11651.77	10795.60	20917.90	38517.92	40303.87	67437.48	76419.23	96332.95
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	-	-	-	-	-	-	-	-
85171219	MOBILE PHONES, PUSH BUTTON TYPE	-	-	-	-	-	-	-	-

Source: O/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

Table 9.2 - India's Exports By Telecom Equipment From 2006-07 To 2021-22 (₹ in lakhs)

Hs Code	Commodity	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
85171110	PUSH BUTTON TYPE	1923.79	1854.18	874.41	588.47	451.10	1217.03	1170.01	281.49
85171190	OTHERS	6568.41	6862.81	8170.04	2484.23	3550.35	6824.57	2539.95	75969.68
85171210	PUSH BUTTON TYPE	12193.12	9222.93	6077.97	1669.40	10261.81	692959.29	-	-
85171290	OTHER	144411.67	138498.35	108782.48	135051.09	1129329.66	2029530.76	50976.20	589475.98
85171810	PUSH BUTTON TYPE	6985.51	2378.61	484.93	824.71	213.89	317.24	429.36	651.68
85171890	OTHER	6801.75	12351.58	7258.85	5596.56	6149.83	8750.49	8780.74	565076.19
85176100	BASE STATIONS	900.78	2030.71	588.66	8728.72	1608.06	671.84	1295.06	1544.50
85176210	PLCC EQUIPMENT	4955.99	3246.35	1496.30	2679.61	3491.91	1794.62	3280.85	4354.71
85176220	VOICE FREQUENCY TELEGRAPHY	175.57	713.70	1444.41	1280.84	187.07	256.77	278.46	199.92
85176230	MODEMS (MODULATORS-DEMODULATORS)	1411.74	1649.69	3186.64	3918.83	3178.32	3110.86	1481.04	2997.10
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	11358.22	571.84	80.35	13.86	7.42	53.97	2.02	508.00
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	849.57	322.14	1201.69	608.82	221.89	221.61	336.18	218.63
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	19.23	15.26	58.81	609.27	2549.76	3517.26	2445.03	4747.72
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	6593.54	10914.52	15005.02	12892.35	10208.28	6201.69	7350.05	3112.62
85176290	OTHER	72176.18	85406.64	111027.54	313920.06	426871.47	318381.25	451753.89	518750.00
85176910	ISDN TERMINALS	26.03	78.36	64.82	119.24	525.33	82.43	84.87	50.28
85176920	ISDN TERMINAL ADAPTERS	87.85	46.72	17.62	66.51	92.89	252.16	22.16	834.78
85176930	ROUTERS	1616.94	3521.42	3208.01	6297.62	7660.09	7809.15	-	-
85176940	X25 PADS	1.32	0.36	-	-	-	0.02	8.63	0.10
85176950	SUBSCRIBER END EQUIPMENT	15.90	0.40	-	96.35	94.92	21.38	7.39	28.32
85176960	SET TOP BOXES FOR ACCESSING INTERNET	2678.21	491.77	1818.15	300.12	625.66	111.19	62.10	43.45
85176970	ATTACHMENTS FOR TELEPHONES	333.87	278.42	63.87	151.11	352.56	61.31	31.61	35.30
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	49840.71	50393.99	40306.14	51586.98	26289.43	20202.57	25148.47	28159.71
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	13990.58	10912.61	24776.11	28592.69	51019.30	104548.04	202990.32	296936.64
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	283786.08	212394.94	329974.62	138028.74	129348.83	112054.49	140240.92	241931.18
85195000	TELEPHONE ANSWRNG MCHNS	11.46	4.35	0.08	4.85	0.91	0.08	0.05	1.68
85235210	SIM CARDS	47884.52	63313.48	61147.48	46940.00	42218.96	40778.57	33531.01	39031.98
85255040	COMMUNICATION JAMMING EQUIPMENT	0.28	3.87	-	4.68	-	-	12.85	84.27
85256011	WALKIE TALKIE SET	353.35	393.72	207.83	264.68	424.62	589.11	-	-
85256012	MARINE RADIO COMMUNICATION EQPMNT	27.93	13.14	0.48	3.61	20.82	98.04	-	-
85256013	AMATEUR RADIO EQUIPMENT	22.64	9.64	50.14	148.83	132.75	61.32	-	-
85256019	CORDLESS HANDSET	378.98	253.29	1028.20	2698.08	840.57	484.37	-	-
85256091	VSAT TERMINALS	47.01	0.23	34.53	59.29	-	0.98	-	-
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	278.87	14.25	22.13	98.77	61.35	20.86	-	-
85256099	OTHERS	6895.15	4751.62	3760.97	544.15	360.65	290.98	-	-
85279911	RADIO PAGERS	1.57	-	-	-	4.40	0.22	-	-
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	62.06	19.43	7.67	7.85	25.42	1.12	49.92	12.66
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	-	28.47	18.97	77.32	863.82	133.03	70.35	16.20
85291019	DISH ANTENNA FR OTHR USE	10527.42	20676.72	3616.30	2446.41	7345.37	3829.78	2602.47	3313.01
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	3.17	-					0.06	89.27
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	-	-	-	0.13	-	-	0.19	5064.25
85291029	OTHR ANTENNA FR OTHR USE	2833.42	3684.72	3298.17	4471.38	4190.02	5274.80	5846.10	3895.28
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	14.28	4.54	-	0.22	0.18	0.87	0.56	99.49
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	0.04	-	-	6.65	-	9.79	0.61	51.56
85291099	AERIAL PARTS FR OTHR USE	41429.94	15649.91	4698.34	640.33	3809.13	11233.48	27101.61	26662.33
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	1913.99	913.19	1977.66	1376.76	676.86	632.34	255.02	236.15
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	577.43	2238.56	4693.67	3715.94	4004.60	4032.38	357.03	1373.82
85299090	OTHE PARTS FR OTHR USE	81035.29	64695.31	81533.45	43349.22	64876.50	96078.11	131104.39	131111.41
85442010	CO-AXIAL CABLE	3914.37	22616.28	6759.13	1837.21	1972.89	6518.47	4920.93	2364.53
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	14535.16	10684.13	6481.13	5195.06	5631.90	11306.01	8866.19	9713.26
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	6.85	12.03	34.11	8.54	20.66	9.40	4.71	22.95
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	843.48	1826.83	735.24	1481.20	2043.63	2303.63	1610.93	1991.77
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	9.67	16.71	36.06	141.45	0.64	18.56	62.48	125.94
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	12085.61	20793.23	26065.72	27696.06	40887.97	49368.14	65132.32	80241.11
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	72.96	9.85	637.38	417.69	91.40	113.15	475.04	237.40
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	3459.76	2666.22	2028.82	2182.21	3609.02	6223.51	8648.08	23078.09
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	13.55	29.13	42.82	33.85	22.54	210.87	31.60	32.48
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	17698.81	17370.42	21234.04	31831.79	49181.28	51521.81	57174.33	70597.70
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	18134.07	17498.20	14220.37	16577.45	21339.85	22089.97	36401.51	52490.48
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	103015.31	127219.80	155898.23	191934.96	189323.12	164158.31	176657.46	349873.97
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	-	-	-	-	-	-	-	2830423.32
85171219	MOBILE PHONES, PUSH BUTTON TYPE	-	-	-	-	-	-	-	149612.92

Source: O/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

Table 9.3 - India's Exports By Telecom Equipment From 2006-07 To 2021-22 (US $ in million) (Contd.)

Hs Code	Commodity	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
85171110	PUSH BUTTON TYPE	1.48	3.34	2.94	13.56	11.09	5.51	6.50	14.30
85171190	OTHERS	2.23	15.63	20.76	34.98	129.49	178.26	63.41	138.36
85171210	PUSH BUTTON TYPE	-	-	13.57	136.71	16.40	22.72	6.68	43.66
85171290	OTHER	-	-	2292.66	1138.64	2606.77	2709.13	2650.82	1908.52
85171810	PUSH BUTTON TYPE	-	-	1.58	0.54	10.81	9.93	11.19	8.44
85171890	OTHER	-	-	41.61	16.04	9.42	3.61	7.88	32.60
85176100	BASE STATIONS	-	-	7.41	0.20	0.18	1.64	2.35	5.58
85176210	PLCC EQUIPMENT	-	-	1.00	0.98	7.82	15.47	5.10	6.35
85176220	VOICE FREQUENCY TELEGRAPHY	-	-	0.03	0.17	0.05	0.56	0.03	0.13
85176230	MODEMS (MODULATORS-DEMODULATORS)	-	-	2.24	2.09	1.80	35.56	4.35	2.59
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	-	-	0.00	-	0.05	0.01	1.19	0.04
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	-	-	0.56	0.16	0.12	0.26	0.14	0.11
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	-	-	0.06	0.05	0.15	0.54	0.26	0.52
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	-	-	2.65	1.61	2.63	5.83	9.44	9.23
85176290	OTHER	-	-	23.06	27.05	26.88	52.75	69.97	80.82
85176910	ISDN TERMINALS	-	-	0.24	0.80	0.01	0.06	0.16	0.18
85176920	ISDN TERMINAL ADAPTERS	-	-	0.06	0.04	0.14	0.19	0.77	0.42
85176930	ROUTERS	-	-	1.20	0.95	0.67	1.58	2.85	3.91
85176940	X25 PADS	-	-	0.03	-	0.04	-	0.00	-
85176950	SUBSCRIBER END EQUIPMENT	-	-	0.04	-	0.07	0.00	0.04	0.05
85176960	SET TOP BOXES FOR ACCESSING INTERNET	-	-	63.31	83.40	69.17	64.13	68.13	40.87
85176970	ATTACHMENTS FOR TELEPHONES	-	-	0.92	0.10	0.02	0.15	1.39	2.40
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	-	-	44.95	43.54	35.55	44.16	48.12	79.38
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	-	-	33.13	41.19	30.01	44.01	42.13	30.81
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	-	-	52.75	160.24	369.63	757.73	596.40	588.51
85195000	TELEPHONE ANSWRNG MCHNS	-	-	0.14	0.07	0.02	0.00	0.07	0.01
85235210	SIM CARDS	-	-	19.85	38.27	32.19	75.25	91.05	86.42
85255040	COMMUNICATION JAMMING EQUIPMENT	-	-	1.39	0.06	-	0.06	-	0.00
85256011	WALKIE TALKIE SET	-	-	1.51	1.26	0.48	0.49	0.84	0.86
85256012	MARINE RADIO COMMUNICATION EQPMNT	-	-	0.04	0.00	0.22	0.01	0.03	0.00
85256013	AMATEUR RADIO EQUIPMENT	-	-	0.05	0.00	-	0.01	-	0.10
85256019	CORDLESS HANDSET	-	-	95.47	26.32	8.65	2.01	1.02	1.49
85256091	VSAT TERMINALS	-	-	0.34	0.13	0.14	0.10	0.31	0.29
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	-	-	3.35	0.69	1.17	1.64	0.19	0.70
85256099	OTHERS	-	-	10.97	4.80	4.31	6.24	8.13	8.60
85279911	RADIO PAGERS	-	-	0.00	0.00	0.05	0.00	-	-
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	0.45	0.95	2.10	1.83	0.51	0.05	0.02	0.03
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	0.01	0.00	0.28	0.10	0.04	0.00	0.02	0.00
85291019	DISH ANTENNA FR OTHR USE	6.16	8.97	4.88	5.38	7.44	4.84	7.23	19.45
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	0.14	0.22	5.84	0.02	0.04	0.00	0.04	0.02
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	0.06	-	-	0.00	0.00	0.00	0.01	-
85291029	OTHR ANTENNA FR OTHR USE	5.16	7.69	6.51	8.30	8.50	10.38	8.18	4.14
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	0.01	0.01	0.45	0.08	0.13	0.33	4.34	0.00
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	0.01	0.01	0.08	0.00	0.00	0.02	-	0.00
85291099	AERIAL PARTS FR OTHR USE	19.76	30.83	23.25	3.76	3.48	9.69	13.34	57.40
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	0.88	1.17	11.91	1.39	1.57	1.40	2.32	0.99
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	0.17	0.17	0.17	0.02	1.65	2.30	3.44	3.47
85299090	OTHE PARTS FR OTHR USE	121.92	142.53	116.42	84.97	81.37	125.98	102.55	107.96
85442010	CO-AXIAL CABLE	1.66	10.66	4.47	2.54	5.14	4.54	6.50	4.73
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	8.14	16.60	19.35	12.74	17.54	46.48	22.00	15.57
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	-	-	2.25	1.98	1.03	0.00	0.66	0.63
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	-	-	1.15	0.24	0.65	1.11	2.94	1.21
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	-	-	0.03	0.02	0.01	0.33	0.05	0.02
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	-	-	5.13	3.14	8.42	9.36	13.81	17.21
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	-	-	1.50	1.14	0.25	0.03	0.01	0.06
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	-	-	0.32	1.52	2.02	6.88	10.73	10.03
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	-	-	0.04	0.14	0.00	0.09	0.13	0.02
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	-	-	96.51	45.21	25.60	19.42	20.25	23.15
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	14.66	13.89	46.16	39.80	18.14	27.46	34.39	35.12
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	25.71	26.77	44.57	81.13	88.57	139.98	140.42	160.43
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	-	-	-	-	-	-	-	-
85171219	MOBILE PHONES, PUSH BUTTON TYPE	-	-	-	-	-	-	-	-

Source: O/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

Table 9.3 - India's Exports By Telecom Equipment From 2006-07 To 2021-22 (US $ in million)

Hs Code	Commodity	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
85171110	PUSH BUTTON TYPE	3.15	2.84	1.31	0.91	0.64	1.71	1.58	0.38
85171190	OTHERS	10.67	10.36	12.17	3.85	5.05	9.65	3.44	101.51
85171210	PUSH BUTTON TYPE	19.92	14.14	9.07	2.59	14.58	961.02	-	-
85171290	OTHER	238.03	209.40	162.48	209.41	1602.17	2867.40	69.04	781.38
85171810	PUSH BUTTON TYPE	11.36	3.71	0.72	1.28	0.31	0.44	0.59	0.87
85171890	OTHER	11.03	18.76	10.83	8.70	8.82	12.24	11.86	750.5
85176100	BASE STATIONS	1.46	3.17	0.88	13.54	2.36	0.94	1.76	2.06
85176210	PLCC EQUIPMENT	8.13	5.06	2.23	4.15	5.04	2.50	4.45	5.85
85176220	VOICE FREQUENCY TELEGRAPHY	0.29	1.07	2.16	1.99	0.27	0.36	0.38	0.27
85176230	MODEMS (MODULATORS-DEMODULATORS)	2.28	2.52	4.75	6.11	4.62	4.33	1.99	4.02
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	18.36	0.86	0.12	0.02	0.01	0.07	0.00	0.69
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	1.37	0.50	1.79	0.94	0.32	0.31	0.45	0.29
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	0.03	0.02	0.09	0.94	3.62	4.94	3.29	6.37
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	10.75	16.71	22.37	20.02	14.55	8.67	9.89	4.16
85176290	OTHER	117.94	130.35	165.56	486.76	612.03	444.33	611.07	695.04
85176910	ISDN TERMINALS	0.04	0.12	0.10	0.18	0.79	0.12	0.12	0.07
85176920	ISDN TERMINAL ADAPTERS	0.15	0.07	0.03	0.10	0.13	0.36	0.03	1.12
85176930	ROUTERS	2.63	5.33	4.79	9.77	10.95	11.03	-	-
85176940	X25 PADS	0.00	0.00	-	-	-	0.00	0.01	0
85176950	SUBSCRIBER END EQUIPMENT	0.03	0.00	-	0.15	0.13	0.03	0.01	0.04
85176960	SET TOP BOXES FOR ACCESSING INTERNET	4.45	0.75	2.72	0.47	0.89	0.16	0.08	0.06
85176970	ATTACHMENTS FOR TELEPHONES	0.55	0.43	0.10	0.23	0.51	0.09	0.04	0.05
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	81.54	77.21	60.10	80.03	37.62	28.38	33.98	37.72
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	23.00	16.61	36.92	44.37	73.26	145.52	276.42	400.61
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	464.56	322.67	492.41	214.08	186.10	157.38	189.07	324.91
85195000	TELEPHONE ANSWRNG MCHNS	0.02	0.01	0.00	0.01	0.00	0.00	0.00	0
85235210	SIM CARDS	78.23	96.64	91.15	72.83	60.59	57.19	45.33	52.4
85255040	COMMUNICATION JAMMING EQUIPMENT	0.00	0.01	-	0.01	-	-	0.02	0.11
85256011	WALKIE TALKIE SET	0.58	0.61	0.31	0.41	0.60	0.83	-	-
85256012	MARINE RADIO COMMUNICATION EQPMNT	0.05	0.02	0.00	0.01	0.03	0.14	-	-
85256013	AMATEUR RADIO EQUIPMENT	0.04	0.01	0.07	0.23	0.19	0.09	-	-
85256019	CORDLESS HANDSET	0.62	0.39	1.54	4.19	1.19	0.68	-	-
85256091	VSAT TERMINALS	0.08	0.00	0.05	0.09	-	0.00	-	-
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	0.46	0.02	0.03	0.15	0.09	0.03	-	-
85256099	OTHERS	11.29	7.30	5.61	0.85	0.52	0.41	-	-
85279911	RADIO PAGERS	0.00	-	-	-	0.01	0.00	-	-
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	0.10	0.03	0.01	0.01	0.04	0.00	0.07	0.02
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	0.00	0.04	0.03	0.12	1.23	0.19	0.10	0.02
85291019	DISH ANTENNA FR OTHR USE	17.34	31.37	5.39	3.80	10.71	5.42	3.52	4.45
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	0.01	-					0.00	0.12
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	-	-	-	0.00	-	-	0.00	6.86
85291029	OTHR ANTENNA FR OTHR USE	4.63	5.62	4.92	6.93	5.97	7.42	7.90	5.22
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	0.02	0.01	-	0.00	0.00	0.00	0.00	0.13
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	0.00	-	-	0.01	-	0.01	0.00	0.07
85291099	AERIAL PARTS FR OTHR USE	67.93	24.15	7.01	0.99	5.52	15.68	36.63	35.97
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	3.11	1.41	2.95	2.14	0.96	0.88	0.35	0.32
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	0.95	3.40	7.00	5.76	5.73	5.71	0.48	1.84
85299090	OTHE PARTS FR OTHR USE	132.14	98.41	121.72	67.24	92.95	134.52	177.64	176.07
85442010	CO-AXIAL CABLE	6.38	35.38	10.02	2.85	2.83	9.12	6.59	3.17
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	23.71	16.36	9.67	8.07	8.07	15.84	12.04	13.02
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	0.01	0.02	0.05	0.01	0.03	0.01	0.01	0.03
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	1.38	2.77	1.10	2.30	2.92	3.22	2.17	2.67
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	0.02	0.03	0.05	0.22	0.00	0.03	0.09	0.17
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	19.70	31.66	38.88	42.96	58.49	69.08	87.96	107.68
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	0.12	0.01	0.95	0.65	0.14	0.16	0.65	0.32
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	5.64	4.10	3.03	3.39	5.12	8.71	11.76	30.98
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	0.02	0.05	0.06	0.05	0.03	0.30	0.04	0.04
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	28.88	26.45	31.62	49.38	70.40	72.18	77.20	94.68
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	29.66	26.85	21.21	25.70	30.56	30.91		70.46
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	168.76	194.30	232.32	297.73	271.67	230.18		469.08
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	-	-	-	-	-	-	-	3799.2
85171219	MOBILE PHONES, PUSH BUTTON TYPE	-	-	-	-	-	-	-	197.65

Source: O/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

Table 9.4 - India's Imports By Telecom Equipment From 2006-07 To 2021-22 (In Quantity) (Contd.)

Hs Code	Commodity	Unit	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
85171110	PUSH BUTTON TYPE	NOS	1605942	2217824	900793	710966	724399	668429	656838	931701
85171190	OTHERS	NOS	922067	4290276	885325	2429968	1410439	1674448	2000604	1840607
85171210	PUSH BUTTON TYPE	NOS	-	-	18764840	10864317	10674416	10583404	12449080	14115337
85171290	OTHER	NOS	-	-	41073558	53355325	114842688	132333872	146947038	173265140
85171810	PUSH BUTTON TYPE	NOS	-	-	353543	250377	69200	51401	32937	41112
85171890	OTHER	NOS	-	-	486120	319898	3407569	328738	766428	1014683
85176100	BASE STATIONS	NOS	-	-	121924	73097	85044	52057	28960	48797
85176210	PLCC EQUIPMENT	NOS	-	-	5716	8708	8189	15637	11952	13636
85176220	VOICE FREQUENCY TELEGRAPHY	NOS	-	-	23	2674	147	459	2404	466
85176230	MODEMS (MODULATORS-DEMODULATORS)	NOS	-	-	2038499	4136860	4908118	7371147	9084377	7593004
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	NOS	-	-	439	69	1	296	83	270
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	NOS	-	-	1401	163	1330	5082	3789	6870
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	NOS	-	-	24603	17064	32469	18901	5580	7501
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	NOS	-	-	76156	19419	111390	21374	19801	14139
85176290	OTHER	NOS	-	-	1758160	2404476	3595559	2333721	2333258	3430861
85176910	ISDN TERMINALS	NOS	-	-	1334	462	526	2502	8676	348
85176920	ISDN TERMINAL ADAPTERS	NOS	-	-	310	5529	1088	1586	801	138
85176930	ROUTERS	NOS	-	-	374476	377082	429633	935528	1602695	2953063
85176940	X25 PADS	NOS	-	-	21	419	7	3	137	74
85176950	SUBSCRIBER END EQUIPMENT	NOS	-	-	33622	16628	83121	5147	55085	153497
85176960	SET TOP BOXES FOR ACCESSING INTERNET	NOS	-	-	2633277	1675619	6443522	3821845	3977820	1868773
85176970	ATTACHMENTS FOR TELEPHONES	NOS	-	-	204436	511438	9657	21689	12865	9140
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	NOS	-	-	3344567	4528605	2519292	1787647	2498352	4755438
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	NOS	-	-	3009344	4254787	18420384	1860513	1445803	975316
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	KGS	-	-	64841478	89296745	6819488147	52010715	115106683	34353362
85195000	TELEPHONE ANSWRNG MCHNS	NOS	-	-	101	36	45	2249	85	56
85235210	SIM CARDS	NOS	-	-	207512757	221230260	557330720	714551228	623735980	294619488
85255040	COMMUNICATION JAMMING EQUIPMENT	NOS	-	-	-	43	285	16	65	24
85256011	WALKIE TALKIE SET	NOS	-	-	117102	109104	142600	95687	119537	105312
85256012	MARINE RADIO COMMUNICATION EQPMNT	NOS	-	-	2310	1510	1083	1427	1035	1107
85256013	AMATEUR RADIO EQUIPMENT	NOS	-	-	420	40	110	27	12	346
85256019	CORDLESS HANDSET	NOS	-	-	313345	58563	39007	37599	13775	5755
85256091	VSAT TERMINALS	NOS	-	-	69032	18288	24733	26946	19294	9050
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	NOS	-	-	31093	13744	5461	1116	2569	1652
85256099	OTHERS	NOS	-	-	12994	23636	21335	6421	13685	1213
85279911	RADIO PAGERS	NOS	-	-	513	316	113	132	484	1
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	NOS	39214	16460	105946	32621	64317	12480	1548915	3544
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	NOS	1230	7789	208	50	532	14244	20	3225
85291019	DISH ANTENNA FR OTHR USE	NOS	2754295	3523041	5975201	3429278	5113259	3943205	4983136	1781149
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	NOS	32574	21967	36937	42832	700	853	567	3295
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	NOS	21534	189	780	14	40	4302	-	2201
85291029	OTHR ANTENNA FR OTHR USE	NOS	4212716	5342001	8009604	2096163	1579534	1356899	2958600	1406977
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	NOS	2972	1081	8621	1227	226634	5196	937	1
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	NOS	1000	442	12	2002	48	16661	-	-
85291099	AERIAL PARTS FR OTHR USE	NOS	1998944	2452862	1672065	502632	685097	387625	441532	205915
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	NOS	1835736	203911	390194	103402	28973	33350	80305	76346
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	NOS	2064	4355	7602	2147	516	6987	7087	5719
85299090	OTHE PARTS FR OTHR USE	NOS	34911817	29821330	69449949	62400819	62331146	43580499	56870450	31945390
85442010	CO-AXIAL CABLE	MTR	4828216	24401534	20685649	13464825	8555321	4690845	9198220	7298888
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	MTR	4065130	10222501	7992007	9820588	4941501	5294704	5301127	3848239
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	MTR	-	-	205806	22600	271176	59272	123154	26788
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	MTR	-	-	2349480	274249	327784	349044	584706	391032
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	MTR	-	-	24531	37592	43229	34100	32013	85945
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	MTR	-	-	2077411	1549666	3716370	3428559	4588672	2628829
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	MTR	-	-	46191	21924	91997	105933	86897	48911
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	MTR	-	-	1577642	1339442	1407256	3288175	2924160	1696915
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	MTR	-	-	47893	8756	10576	65235	42315	15316
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	MTR	-	-	26160467	18748252	23262082	18109422	20705097	11056090
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	MTR	1095324	10058271	7982804	5438456	1488884	1940010	3158039	783963
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	KGS	1940863	7493076	3751316	1955491	1590904	1408785	2911549	4574621
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	NOS	-	-	-	-	-	-	-	-
85171219	MOBILE PHONES, PUSH BUTTON TYPE	NOS	-	-	-	-	-	-	-	-

Source: O/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

Table 9.4 - India's Imports By Telecom Equipment From 2006-07 To 2021-22 (In Quantity)

Hs Code	Commodity	Unit	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
85171110	PUSH BUTTON TYPE	NOS	1314256	812805	448986	769629	635484	656268	601853	2047783
85171190	OTHERS	NOS	1380218	1891341	2384443	1175450	916786	380774	112472	61225824
85171210	PUSH BUTTON TYPE	NOS	26031517	10690309	4855677	37677705	14753052	1687682	-	-
85171290	OTHER	NOS	183667398	135019315	70924740	52842592	12226324	4291591	1166584	1173883
85171810	PUSH BUTTON TYPE	NOS	26262	21216	299130	305940	144809	229691	638723	641443
85171890	OTHER	NOS	426293	737700	411658	1070623	664530	275181	248153	116863223
85176100	BASE STATIONS	NOS	43688	121746	147578	176510	81647	50777	104784	90491
85176210	PLCC EQUIPMENT	NOS	19785	21850	291954	4432	10152	336057	72722	10650
85176220	VOICE FREQUENCY TELEGRAPHY	NOS	614	1042	551	1146	2619	4210	8153	139818
85176230	MODEMS (MODULATORS-DEMODULATORS)	NOS	7577401	5248259	3707590	2400509	3351352	1674140	3894972	3158619
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	NOS	1133	1075	1222	1921	1603	1286	1586	2863
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	NOS	52449	108917	53839	14325	1997	3115	12285	30989
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	NOS	6896	11740	18152	12183	18102	4930	2442	2131
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	NOS	50586	60559	67351	101508	69221	48059	60443	173745
85176290	OTHER	NOS	6170015	21406695	24994917	24710672	43052118	45470088	86011001	173964785
85176910	ISDN TERMINALS	NOS	2415	4623	7597	2662	2420	2417	13354	3415
85176920	ISDN TERMINAL ADAPTERS	NOS	13821	37981	9313	43789	1149	1937	18955	4957
85176930	ROUTERS	NOS	3240150	4608397	10802718	12490145	5643172	3924930	-	-
85176940	X25 PADS	NOS	1	5	-	13	16	3	13	-
85176950	SUBSCRIBER END EQUIPMENT	NOS	47426	121289	334875	528558	1884504	2736762	3928421	3176226
85176960	SET TOP BOXES FOR ACCESSING INTERNET	NOS	1405771	81398	78164	6123188	1148956	264310	703472	98652
85176970	ATTACHMENTS FOR TELEPHONES	NOS	55043	198836	163706	587387	265413	395956	350865	493705
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	NOS	6504644	17733617	20730436	12797078	6827713	2860004	5955293	24822597
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	NOS	1976734	6150622	7661814	311897026	300704265	297826967	238221383	7150365
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	KGS	31647624	72593200	73657474	108281673	55844743	74822877	55653041	1.287E+09
85195000	TELEPHONE ANSWRNG MCHNS	NOS	139	-	204	717	403	2	661	100
85235210	SIM CARDS	NOS	329544071	400172776	569922252	340596511	206510183	245110611	15586341	16053780
85255040	COMMUNICATION JAMMING EQUIPMENT	NOS	30	37	256	373	1226	40	52	17
85256011	WALKIE TALKIE SET	NOS	135330	162573	182848	185930	172070	167256	-	-
85256012	MARINE RADIO COMMUNICATION EQPMNT	NOS	518	446	259	17814	278	853	-	-
85256013	AMATEUR RADIO EQUIPMENT	NOS	-	86	1	1	1	2	-	-
85256019	CORDLESS HANDSET	NOS	8400	11672	2550	5594	13899	52301	-	-
85256091	VSAT TERMINALS	NOS	6212	9226	4710	12172	2386	110	-	-
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	NOS	263	4365	329	2248	6346	436	-	-
85256099	OTHERS	NOS	27606	9671	10596	13760	9595	6371	-	-
85279911	RADIO PAGERS	NOS	-	-	13	-	1	1	-	-
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	NOS	2938	7693	1170	31642	14712	11496	6384	10222
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	NOS	1467	3540	8	65	2113	12026	200	43
85291019	DISH ANTENNA FR OTHR USE	NOS	5290195	3210350	4260611	8766123	6047097	3043120	5948508	5700407
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	NOS	3292	669	585	5422	124671	44027	61398	81544
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	NOS	123	95	5	1001	-	230	1279	14
85291029	OTHR ANTENNA FR OTHR USE	NOS	2960020	1370334	871049	10216579	10266983	14598105	24892734	38670187
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	NOS	50	384	716	564	634	6579	30941	2480
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	NOS	4	251	2397	1127	86	58	553	1309
85291099	AERIAL PARTS FR OTHR USE	NOS	298832	409561	351188	5754144	5276234	9046519	9247874	6547423
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	NOS	18595	9936	26890	698371	371830	10469	452375	24637
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	NOS	13854	25095	8044	478757	462398	171084	641324	807005
85299090	OTHE PARTS FR OTHR USE	NOS	50538243	42042060	65798493	1747594308	1550961373	1673179327	54429887308	2.292E+09
85442010	CO-AXIAL CABLE	MTR	16894422	13226703	9051272	340848181	259408607	181968592	206823807	1.362E+09
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	MTR	3782027	2848127	3097406	60470565	95247764	51257170	40874463	66296763
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	MTR	4255	8184	6005	96991	132841	19058	18491	106516
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	MTR	390543	225192	496321	10971153	11752424	7923774	8339030	16063321
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	MTR	30027	155298	29619	727875	159436	113666	40083	53204
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	MTR	2964935	4382467	5779105	157377781	226831952	169132088	879779100	235799009
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	MTR	31704	69563	39182	321441	172554	734204	377269	592554
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	MTR	1258639	1482296	1902867	62121604	57384955	42727458	44260959	44468530
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	MTR	13693	39903	12906	525740	323506	1300444	2596494	28450133
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	MTR	12042220	13890837	11831406	419897731	775980375	577206203	660884870	805916422
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	MTR	1476403	2243192	1941991	92273045	181756954	136755109	222569109	165963701
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	KGS	3323857	1876528	1702276	1936034	5632156	2156167	1213753	3214771
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	NOS	-	-	-	-	-	-	-	2005159
85171219	MOBILE PHONES, PUSH BUTTON TYPE	NOS	-	-	-	-	-	-	-	500664

Source: O/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

Table 9.5 - India's Imports By Telecom Equipment From 2006-07 To 2021-22 (₹ in lakhs) (Contd.)

Hs Code	Commodity	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
85171110	PUSH BUTTON TYPE	7285.31	14158.92	5909.39	4121.56	4358.65	4491.52	3343.23	4480.82
85171190	OTHERS	14497.26	60244.32	11893.86	16326.80	15806.64	20435.46	22529.11	20026.60
85171210	PUSH BUTTON TYPE	-	-	323203.33	211462.79	216771.52	252595.70	337397.05	247067.32
85171290	OTHER	-	-	1379667.36	1316126.97	2273418.76	2518987.25	2246117.59	3324557.03
85171810	PUSH BUTTON TYPE	-	-	2426.80	775.60	731.92	1649.05	1624.47	1624.95
85171890	OTHER	-	-	13819.10	22390.38	21942.74	23563.51	29507.49	22416.02
85176100	BASE STATIONS	-	-	214606.22	197923.70	178561.60	77234.43	20283.87	31997.06
85176210	PLCC EQUIPMENT	-	-	2234.61	2293.31	2314.58	5152.75	7045.81	6369.58
85176220	VOICE FREQUENCY TELEGRAPHY	-	-	29.44	371.95	1314.39	201.75	1312.74	1029.72
85176230	MODEMS (MODULATORS-DEMODULATORS)	-	-	30261.84	65190.58	64681.50	94608.55	101149.08	86949.12
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	-	-	402.72	55.05	0.38	53.28	47.35	49.14
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	-	-	497.88	292.53	439.05	720.49	618.82	1059.08
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	-	-	18697.40	7624.43	10117.67	9113.00	3877.21	4566.91
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	-	-	39960.75	11100.33	29209.34	21062.79	8519.54	7095.39
85176290	OTHER	-	-	664124.12	842573.28	532599.16	451465.86	515098.45	767079.63
85176910	ISDN TERMINALS	-	-	553.14	204.47	802.11	1389.45	2531.78	997.28
85176920	ISDN TERMINAL ADAPTERS	-	-	274.43	412.44	162.45	523.39	160.10	115.69
85176930	ROUTERS	-	-	64953.80	54671.39	58379.44	61920.79	69937.74	98785.43
85176940	X25 PADS	-	-	57.53	214.55	2.14	17.61	23.53	20.18
85176950	SUBSCRIBER END EQUIPMENT	-	-	1149.44	787.77	1492.06	507.97	977.65	2106.25
85176960	SET TOP BOXES FOR ACCESSING INTERNET	-	-	39911.79	36457.16	73671.35	60126.11	61457.90	29616.66
85176970	ATTACHMENTS FOR TELEPHONES	-	-	1107.71	2642.60	605.02	373.36	189.11	249.82
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	-	-	249249.82	218806.83	196304.95	315249.23	358945.22	332410.67
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	-	-	89006.46	65261.19	62727.04	61322.87	66343.70	64046.73
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	-	-	945044.33	877112.73	1348114.84	1225617.37	1515621.87	1561621.17
85195000	TELEPHONE ANSWRNG MCHNS	-	-	0.24	4.93	1.47	7.78	11.13	7.49
85235210	SIM CARDS	-	-	51605.46	34373.19	58701.40	60102.33	51406.75	25778.16
85255040	COMMUNICATION JAMMING EQUIPMENT	-	-	-	766.69	48.30	37.01	1985.98	837.46
85256011	WALKIE TALKIE SET	-	-	5428.42	5337.11	6473.78	4745.31	6665.90	5436.27
85256012	MARINE RADIO COMMUNICATION EQPMNT	-	-	2070.50	1146.58	768.65	1400.89	825.86	660.15
85256013	AMATEUR RADIO EQUIPMENT	-	-	96.89	1.81	14.78	10.70	1.87	63.10
85256019	CORDLESS HANDSET	-	-	246074.31	48408.48	23960.17	20546.13	10211.96	2074.57
85256091	VSAT TERMINALS	-	-	4462.09	2050.36	5045.35	2438.13	1927.65	887.72
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	-	-	13767.27	3763.36	1821.83	1392.02	874.27	439.19
85256099	OTHERS	-	-	20024.13	14067.36	13447.18	5206.76	1932.63	4695.22
85279911	RADIO PAGERS	-	-	8.45	7.83	2.92	1.96	148.14	0.22
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	333.17	343.25	787.90	498.48	363.33	161.53	3299.61	53.17
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	12.40	60.43	1.06	1.69	2.88	196.97	0.19	37.89
85291019	DISH ANTENNA FR OTHR USE	23851.41	31734.80	66439.05	27300.16	34992.27	32010.18	34952.29	10694.96
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	288.02	140.79	380.77	141.23	11.27	13.51	4.82	62.69
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	318.45	1.72	4.55	0.18	0.76	46.16	-	30.25
85291029	OTHR ANTENNA FR OTHR USE	39732.98	39048.75	48874.54	19955.89	14543.25	19162.60	23663.85	19972.43
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	72.54	13.84	613.17	19.37	1757.67	26.83	13.77	0.03
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	10.63	3.62	0.46	24.51	0.62	119.08	-	-
85291099	AERIAL PARTS FR OTHR USE	20050.13	23886.20	15397.35	4253.88	7826.19	3782.63	8476.63	2943.98
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	14038.37	2292.16	7112.56	2651.09	326.99	619.39	1219.75	1160.96
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	31.01	61.77	149.38	61.14	25.96	55.77	61.07	68.41
85299090	OTHE PARTS FR OTHR USE	268553.28	222913.27	342374.17	324788.44	362357.93	436952.66	567066.35	587316.14
85442010	CO-AXIAL CABLE	17596.20	53267.62	45475.36	40593.07	26752.26	22733.28	30334.19	29430.87
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	14729.61	26775.77	31924.25	32069.92	22545.72	24320.55	27299.20	25338.27
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	-	-	640.76	131.44	114.27	278.35	776.91	421.80
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	-	-	24965.04	1819.88	1235.40	2568.83	3104.54	2419.36
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	-	-	84.10	203.10	371.03	188.21	286.71	2456.98
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	-	-	6796.46	7393.60	17282.64	20053.07	25767.41	25551.29
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	-	-	167.03	153.93	283.05	531.60	460.86	450.76
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	-	-	5925.09	5019.57	5249.42	15024.48	12214.65	11489.10
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	-	-	174.26	25.34	37.83	279.14	178.55	136.38
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	-	-	93273.47	66752.31	76077.46	85953.85	82838.85	91527.76
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	6284.19	93446.60	19786.14	14098.23	8879.34	16807.38	17503.93	11611.18
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	15787.45	36104.21	26041.77	17114.84	16072.04	21749.31	29607.41	38393.25
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	-	-	-	-	-	-	-	-
85171219	MOBILE PHONES, PUSH BUTTON TYPE	-	-	-	-	-	-	-	-

Source: O/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

Table 9.5 - India's Imports By Telecom Equipment From 2006-07 To 2021-22 (₹ in lakhs)

Hs Code	Commodity	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
85171110	PUSH BUTTON TYPE	6154.26	4195.91	2434.96	5024.67	3813.96	4654.21	5765.29	5941.94
85171190	OTHERS	19256.25	18821.24	15302.22	11032.96	8437.51	5416.87	4411.78	49394.92
85171210	PUSH BUTTON TYPE	204028.96	87772.20	32224.70	601831.34	273554.76	239538.47	-	-
85171290	OTHER	4656909.42	3852542.38	2508701.66	1676955.99	856869.75	500791.01	53637.11	314654.51
85171810	PUSH BUTTON TYPE	1735.18	1123.53	1779.40	2018.33	1393.22	3400.77	4253.72	14319.15
85171890	OTHER	20525.64	20962.80	14482.86	17883.09	16328.30	8335.38	6035.54	44272.92
85176100	BASE STATIONS	45289.81	201664.96	664386.60	242364.87	30583.36	23762.95	87926.24	83416.19
85176210	PLCC EQUIPMENT	4316.09	4050.60	7555.60	4987.92	3803.46	5604.19	3752.20	2100.68
85176220	VOICE FREQUENCY TELEGRAPHY	531.72	731.65	618.21	219.40	689.88	3019.46	5347.59	1397.81
85176230	MODEMS (MODULATORS-DEMODULATORS)	93707.34	71408.90	73183.32	49377.16	30146.20	24492.50	62324.77	59430.86
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	227.40	187.40	211.44	561.28	1126.98	1504.29	783.63	245.43
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	3095.96	5024.18	3926.83	1848.57	1503.78	2622.46	1877.39	1544.72
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	3009.66	4369.38	5997.01	3686.12	4418.74	6460.52	8358.71	3230.12
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	4267.47	9317.72	8873.58	9299.82	6321.93	6857.26	13365.44	8084.71
85176290	OTHER	1390138.84	1509471.02	1601354.94	2638773.91	3716757.63	2158162.76	2616495.00	2856568.58
85176910	ISDN TERMINALS	3711.82	9629.99	11376.34	3053.83	1451.86	1008.50	1125.75	1199.33
85176920	ISDN TERMINAL ADAPTERS	132.57	158.67	68.36	207.46	190.92	457.51	528.99	319.90
85176930	ROUTERS	166394.84	175315.50	319744.71	344480.67	292466.95	191152.31	-	-
85176940	X25 PADS	2.45	0.62	-	1.60	1.73	4.39	0.80	-
85176950	SUBSCRIBER END EQUIPMENT	1865.83	5285.53	13251.41	11721.74	32085.24	44342.29	66746.25	75009.29
85176960	SET TOP BOXES FOR ACCESSING INTERNET	22166.27	1866.25	2051.80	64014.93	29112.70	7353.40	12329.47	392.33
85176970	ATTACHMENTS FOR TELEPHONES	1613.78	3260.55	3940.01	3122.26	2701.89	982.69	310.74	285.02
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	364304.03	508731.61	561476.44	426801.54	369110.77	313255.26	256435.26	199386.54
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	119958.48	357292.46	792284.58	3130433.96	1468636.56	494466.37	397815.76	397937.62
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	1617320.12	2955371.65	4196577.12	4322310.88	4622095.33	5109407.15	4762705.12	5515103.28
85195000	TELEPHONE ANSWRNG MCHNS	3.53	-	17.32	10.77	7.12	9.32	7.91	0.06
85235210	SIM CARDS	29020.34	37000.28	51575.43	22207.26	15443.84	14319.10	1958.61	3099.39
85255040	COMMUNICATION JAMMING EQUIPMENT	1293.47	1680.97	9645.31	3433.69	1652.31	1063.77	3787.73	2123.16
85256011	WALKIE TALKIE SET	8500.12	11714.03	14988.77	15925.43	16427.23	9839.70	-	-
85256012	MARINE RADIO COMMUNICATION EQPMNT	752.38	592.78	455.02	2016.76	198.56	528.09	-	-
85256013	AMATEUR RADIO EQUIPMENT	-	199.32	3.21	2.39	0.91	0.11	-	-
85256019	CORDLESS HANDSET	17285.30	4113.32	1224.75	1023.23	3336.01	6043.61	-	-
85256091	VSAT TERMINALS	583.03	769.06	615.61	988.10	315.79	100.21	-	-
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	1396.01	1341.24	275.75	1268.36	8803.35	1103.26	-	-
85256099	OTHERS	3543.08	2710.38	8443.88	5536.62	1982.70	2142.69	-	-
85279911	RADIO PAGERS	-	-	2.11	-	0.69	0.02	-	-
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	28.34	171.45	51.09	73.73	43.55	15.73	277.43	27.12
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	158.05	100.84	0.11	96.53	61.76	25.59	0.89	0.55
85291019	DISH ANTENNA FR OTHR USE	28486.67	33889.97	26067.74	20810.95	14933.46	14891.67	9652.82	5899.98
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	48.06	10.64	1.71	112.50	475.92	129.13	97.14	340.33
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	4.68	1.53	0.20	4.15	-	3661.21	9380.47	1.32
85291029	OTHR ANTENNA FR OTHR USE	47737.98	29900.82	13933.91	16993.62	21078.26	30860.88	36461.83	35670.78
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	2.02	13.55	26.42	11.83	16.61	13.57	45.03	31.28
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	0.03	10.63	75.24	6.51	38.91	339.80	5094.22	792.63
85291099	AERIAL PARTS FR OTHR USE	4182.67	4683.51	5558.95	5356.60	11962.34	14141.87	38202.43	47125.91
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	285.72	235.01	271.50	577.31	122.89	45.57	2614.36	40.08
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	163.06	520.29	182.96	302.46	540.28	318.64	834.95	1288.18
85299090	OTHE PARTS FR OTHR USE	684621.36	733873.31	852529.32	872353.01	919724.32	932364.89	1508460.97	1169274.55
85442010	CO-AXIAL CABLE	39669.96	39814.32	32195.89	39067.54	44077.32	32739.01	29389.13	31444.57
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	30840.23	29851.60	23804.13	22973.98	29336.97	23168.41	21342.67	24309.58
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	105.75	111.60	100.14	95.74	178.69	172.70	62.61	176.84
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	2417.16	1498.40	3125.81	7076.03	6755.37	6047.45	8712.50	11992.31
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	1248.25	8441.71	1339.35	937.47	194.59	147.66	150.37	153.94
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	36789.21	46240.96	64225.09	95596.29	124092.70	125403.23	125481.12	148633.85
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	438.39	1037.09	564.77	305.01	291.69	486.75	379.49	567.18
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	11105.25	13337.58	17216.65	14377.51	13112.70	11384.94	13390.04	16715.33
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	310.99	411.36	160.72	161.83	199.85	345.88	456.68	833.31
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	120518.83	135911.71	133835.18	163309.08	175283.25	154374.42	141517.20	208819.83
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	24812.07	31814.72	29144.94	33402.58	46680.16	35960.07	30869.12	27203.08
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	27615.42	26397.16	25586.77	33142.30	127492.88	40232.37	35658.28	58538.28
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	-	-	-	-	-	-	-	802315.58
85171219	MOBILE PHONES, PUSH BUTTON TYPE	-	-	-	-	-	-	-	3975.39

Source: O/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

Table 9.6 - India's Imports By Telecom Equipment From 2006-07 To 2021-22 (US $ in million) (Contd.)

Hs Code	Commodity	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14
85171110	PUSH BUTTON TYPE	16.23	35.24	13.15	8.70	9.54	9.32	6.13	7.34
85171190	OTHERS	32.64	149.44	25.98	34.25	34.55	42.49	41.49	33.17
85171210	PUSH BUTTON TYPE	-	-	720.26	447.26	475.88	526.49	620.17	408.07
85171290	OTHER	-	-	2998.56	2785.24	4989.51	5289.39	4125.29	5517.79
85171810	PUSH BUTTON TYPE	-	-	5.42	1.64	1.60	3.56	2.99	2.72
85171890	OTHER	-	-	30.16	47.56	47.99	49.03	54.39	37.17
85176100	BASE STATIONS	-	-	471.15	414.75	395.29	166.94	37.53	52.30
85176210	PLCC EQUIPMENT	-	-	4.85	4.86	5.09	10.68	12.94	10.63
85176220	VOICE FREQUENCY TELEGRAPHY	-	-	0.06	0.80	2.82	0.43	2.40	1.67
85176230	MODEMS (MODULATORS-DEMODULATORS)	-	-	65.19	137.86	142.17	197.46	186.04	143.47
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	-	-	0.88	0.11	0.00	0.11	0.09	0.09
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	-	-	1.18	0.62	0.97	1.53	1.14	1.77
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	-	-	40.83	15.94	22.38	18.93	7.17	7.62
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	-	-	86.92	23.19	64.83	43.75	15.63	11.79
85176290	OTHER	-	-	1442.66	1771.41	1171.94	949.04	948.80	1266.14
85176910	ISDN TERMINALS	-	-	1.15	0.43	1.78	2.76	4.64	1.63
85176920	ISDN TERMINAL ADAPTERS	-	-	0.59	0.89	0.36	1.06	0.30	0.20
85176930	ROUTERS	-	-	141.11	115.33	128.49	130.25	128.65	162.30
85176940	X25 PADS	-	-	0.14	0.45	0.00	0.04	0.04	0.04
85176950	SUBSCRIBER END EQUIPMENT	-	-	2.52	1.66	3.29	1.00	1.79	3.73
85176960	SET TOP BOXES FOR ACCESSING INTERNET	-	-	93.39	76.85	160.96	125.42	114.71	50.11
85176970	ATTACHMENTS FOR TELEPHONES	-	-	2.42	5.64	1.32	0.79	0.35	0.41
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	-	-	551.23	460.65	431.03	654.12	659.99	548.53
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	-	-	191.38	137.54	138.02	127.86	121.68	105.01
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	-	-	2069.73	1842.27	2960.50	2554.75	2783.28	2568.23
85195000	TELEPHONE ANSWRNG MCHNS	-	-	0.00	0.01	0.00	0.02	0.02	0.01
85235210	SIM CARDS	-	-	110.80	72.47	128.85	125.60	94.24	42.17
85255040	COMMUNICATION JAMMING EQUIPMENT	-	-	-	1.68	0.11	0.08	3.65	1.34
85256011	WALKIE TALKIE SET	-	-	11.47	11.30	14.19	9.82	12.25	8.99
85256012	MARINE RADIO COMMUNICATION EQPMNT	-	-	4.68	2.42	1.70	3.01	1.51	1.08
85256013	AMATEUR RADIO EQUIPMENT	-	-	0.19	0.00	0.03	0.02	0.00	0.11
85256019	CORDLESS HANDSET	-	-	548.94	100.72	52.71	43.16	18.75	3.47
85256091	VSAT TERMINALS	-	-	9.97	4.34	11.11	5.27	3.53	1.51
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	-	-	28.55	7.83	4.03	2.88	1.59	0.73
85256099	OTHERS	-	-	44.51	29.31	29.26	10.67	3.55	8.04
85279911	RADIO PAGERS	-	-	0.02	0.02	0.01	0.00	0.26	0.00
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	0.74	0.85	1.83	1.06	0.80	0.35	6.19	0.09
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	0.03	0.15	0.00	0.00	0.01	0.43	0.00	0.06
85291019	DISH ANTENNA FR OTHR USE	52.98	78.83	147.56	57.53	76.98	67.32	64.11	17.88
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	0.63	0.35	0.85	0.29	0.02	0.03	0.01	0.10
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	0.71	0.00	0.01	0.00	0.00	0.10	-	0.05
85291029	OTHR ANTENNA FR OTHR USE	87.67	96.93	107.14	41.53	31.88	39.25	43.11	32.76
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	0.16	0.03	1.42	0.04	3.91	0.05	0.03	0.00
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	0.02	0.01	0.00	0.05	0.00	0.24	-	-
85291099	AERIAL PARTS FR OTHR USE	44.30	59.34	35.14	8.95	17.26	7.85	15.57	4.84
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	30.64	5.70	14.68	5.56	0.72	1.31	2.24	1.91
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	0.07	0.16	0.32	0.13	0.06	0.12	0.11	0.11
85299090	OTHE PARTS FR OTHR USE	592.76	553.70	745.22	685.36	794.45	909.94	1042.18	970.72
85442010	CO-AXIAL CABLE	39.01	132.67	102.14	86.12	58.61	47.88	55.57	48.39
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	32.61	66.35	70.56	67.45	49.54	51.44	50.25	41.86
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	-	-	1.32	0.27	0.25	0.58	1.41	0.69
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	-	-	58.22	3.84	2.71	5.29	5.65	4.06
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	-	-	0.18	0.43	0.82	0.40	0.53	4.01
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	-	-	14.71	15.65	38.02	42.15	47.35	42.06
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	-	-	0.36	0.32	0.62	1.09	0.83	0.76
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	-	-	13.16	10.56	11.48	30.90	22.51	19.25
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	-	-	0.37	0.05	0.08	0.58	0.33	0.23
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	-	-	203.59	140.55	167.15	179.91	152.15	151.62
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	13.86	235.96	44.35	29.71	19.44	35.35	32.21	19.20
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	34.84	89.95	57.96	36.21	35.37	45.14	54.45	62.99
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	-	-	-	-	-	-	-	-
85171219	MOBILE PHONES, PUSH BUTTON TYPE	-	-	-	-	-	-	-	-

Source: O/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

Table 9.6 - India's Imports By Telecom Equipment From 2006-07 To 2021-22 (US $ in million)

Hs Code	Commodity	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
85171110	PUSH BUTTON TYPE	10.13	6.42	3.63	7.80	5.44	6.52	7.80	7.98
85171190	OTHERS	31.64	28.68	22.81	17.12	12.08	7.64	6.00	65.71
85171210	PUSH BUTTON TYPE	335.40	136.05	48.00	934.79	400.71	329.50	-	-
85171290	OTHER	7612.85	5922.51	3739.95	2602.50	1220.88	701.62	72.98	416.64
85171810	PUSH BUTTON TYPE	2.84	1.69	2.65	3.13	1.98	4.77	5.77	18.94
85171890	OTHER	33.60	32.07	21.59	27.75	23.48	11.71	8.15	58.67
85176100	BASE STATIONS	73.78	303.48	991.42	375.88	44.22	33.05	118.28	111.01
85176210	PLCC EQUIPMENT	7.03	6.14	11.22	7.75	5.45	7.89	5.06	2.82
85176220	VOICE FREQUENCY TELEGRAPHY	0.86	1.13	0.91	0.34	1.00	4.26	7.09	1.86
85176230	MODEMS (MODULATORS-DEMODULATORS)	153.21	109.19	109.13	76.56	43.44	34.26	84.15	79.82
85176240	HGH BT RTE DIGTL SUBSCRIBR LN SYSTM(HDSL)	0.37	0.28	0.32	0.87	1.62	2.16	1.06	0.33
85176250	DIGITAL LOOP CARRIER SYSTEM (DLC)	5.01	7.62	5.85	2.87	2.19	3.67	2.53	2.06
85176260	SYNCHRONOUS DIGITAL HIERARCHY SYSTEM (SDH)	4.93	6.62	8.94	5.71	6.36	9.03	11.19	4.35
85176270	MULTIPLEXER, STATISTICAL MULTIPLEXER	6.96	13.96	13.21	14.44	9.11	9.63	18.15	10.85
85176290	OTHER	2268.58	2309.41	2387.86	4092.50	5353.32	3024.67	3533.70	3831.56
85176910	ISDN TERMINALS	6.04	14.62	16.97	4.74	2.07	1.42	1.52	1.61
85176920	ISDN TERMINAL ADAPTERS	0.22	0.24	0.10	0.32	0.27	0.64	0.71	0.43
85176930	ROUTERS	271.26	268.05	476.53	534.64	420.32	269.15	-	-
85176940	X25 PADS	0.00	0.00	-	0.00	0.00	0.01	0.00	-
85176950	SUBSCRIBER END EQUIPMENT	3.03	8.15	19.78	18.19	45.55	62.30	90.34	100.59
85176960	SET TOP BOXES FOR ACCESSING INTERNET	37.09	2.88	3.06	99.27	42.67	10.44	16.29	0.53
85176970	ATTACHMENTS FOR TELEPHONES	2.63	4.98	5.88	4.84	3.88	1.38	0.42	0.38
85176990	OTHR APARTUS,FR CARRIER/DIGITAL LINE SYSTM	595.90	776.93	837.07	662.07	528.48	439.06	344.76	267.51
85177010	POPLTD, LOADED OR STUFFD PRNTD CRCUIT BRDS	196.50	541.50	1180.94	4855.72	2128.06	693.49	537.50	533.18
85177090	OTHR PARTS OF TELEPHONC/TELEGRPHC APPARTS	2641.64	4496.78	6258.64	6707.40	6613.12	7176.15	6444.94	7401.40
85195000	TELEPHONE ANSWRNG MCHNS	0.01	-	0.03	0.02	0.01	0.01	0.01	0.00
85235210	SIM CARDS	47.45	56.59	76.72	34.44	22.28	20.10	2.63	4.15
85255040	COMMUNICATION JAMMING EQUIPMENT	2.09	2.55	14.39	5.31	2.40	1.45	5.12	2.85
85256011	WALKIE TALKIE SET	13.90	17.90	22.36	24.71	23.44	13.85	-	-
85256012	MARINE RADIO COMMUNICATION EQPMNT	1.23	0.91	0.68	3.12	0.28	0.75	-	-
85256013	AMATEUR RADIO EQUIPMENT	-	0.29	0.00	0.00	0.00	0.00	-	-
85256019	CORDLESS HANDSET	28.08	6.34	1.82	1.58	4.82	8.39	-	-
85256091	VSAT TERMINALS	0.96	1.18	0.92	1.53	0.44	0.14	-	-
85256092	OTHER SATELLITE COMMUNICATION EQUIPMENT	2.26	2.08	0.41	1.95	12.76	1.55	-	-
85256099	OTHERS	5.80	4.10	12.59	8.59	2.85	2.96	-	-
85279911	RADIO PAGERS	-	-	0.00	-	0.00	0.00	-	-
85291011	DISH ANTENNA FR COMMNCN JAMMNG EQPTMNTS	0.05	0.26	0.08	0.11	0.06	0.02	0.37	0.04
85291012	DISH ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	0.26	0.15	0.00	0.15	0.09	0.04	0.00	0.00
85291019	DISH ANTENNA FR OTHR USE	46.80	51.50	38.87	32.28	21.54	20.88	12.98	7.88
85291021	OTHR ANTENNA FR COMMNCN JAMMNG EQPTMNTS	0.08	0.02	0.00	0.17	0.68	0.18	0.13	0.46
85291022	OTHR ANTENNA FR AMTR RADIO COMMNCN EQPTMNT	0.01	0.00	0.00	0.01	-	4.92	12.76	0.00
85291029	OTHR ANTENNA FR OTHR USE	77.69	46.24	20.77	26.35	30.29	43.36	49.33	47.85
85291091	AERIAL PARTS FR COMMNCN JAMMNG EQPTMNTS	0.00	0.02	0.04	0.02	0.02	0.02	0.06	0.04
85291092	AERIAL PARTS FR AMTR RADIO COMMNCN EQPTMNT	0.00	0.02	0.11	0.01	0.06	0.46	6.93	1.07
85291099	AERIAL PARTS FR OTHR USE	6.83	7.14	8.30	8.32	17.10	19.83	51.67	63.30
85299010	OTHE PARTS FR COMMNCN JAMMNG EQPTMNTS	0.47	0.36	0.40	0.89	0.18	0.06	3.50	0.05
85299020	OTHE PARTS FR AMTR RADIO COMMNCN EQPTMNT	0.27	0.79	0.27	0.47	0.77	0.45	1.13	1.73
85299090	OTHE PARTS FR OTHR USE	1120.33	1119.37	1271.58	1354.02	1316.61	1309.26	2044.77	1567.74
85442010	CO-AXIAL CABLE	64.95	60.74	47.97	60.61	63.60	45.98	39.69	42.16
85442090	OTHR CO-AXL ELCTRCL CNDUCTORS EXCL CO-AXL CABLE	50.45	45.56	35.52	35.67	42.14	32.53	28.80	32.62
85444291	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	0.17	0.17	0.15	0.15	0.25	0.24	0.08	0.24
85444292	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	3.96	2.30	4.66	10.98	9.75	8.45	11.77	16.11
85444293	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	2.05	13.32	2.00	1.46	0.28	0.21	0.20	0.21
85444299	OTHR ELCTRC CNDCTRS FITTED WTH CONNCTRS USED IN TELECOM FR <	60.12	70.44	95.77	148.28	178.02	175.93	169.65	199.37
85444991	PAPER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=10	0.71	1.58	0.84	0.48	0.42	0.68	0.51	0.76
85444992	PLASTIC INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=	18.19	20.29	25.68	22.30	18.88	15.88	18.07	22.43
85444993	RUBBER INSULATED CONDUCTORS USED IN TELECOM FOR VOLTAGE <=1	0.51	0.62	0.24	0.25	0.28	0.49	0.62	1.12
85444999	OTHR ELCTRC CNDCTRS NOT FITTED WTH CONNCTRS USED IN TELECOM	196.99	207.40	199.55	253.37	251.07	216.52	191.37	280.18
85447090	OPTICAL FIBRE CABLES OTHER THN LEAD ALLOY SHEATHD CABLES	40.44	48.69	43.48	51.80	67.20	50.18	41.67	36.52
90011000	OPTCL FIBRS,OPTICAL FIBRE BUNDLES AND CABLES	45.25	40.36	38.15	51.41	181.37	56.36	48.20	78.50
85171211	MOBILE PHONES, OTHER THAN PUSH BUTTON TYPE	-	-	-	-	-	-	-	1078.14
85171219	MOBILE PHONES, PUSH BUTTON TYPE	-	-	-	-	-	-	-	5.29

Source: O/o Director (IP), DoT

Note: HSN Code 85171210 has been bifurcated into two new codes, i.e., 85171211 & 85171219 starting from 2020-21. Post 2019-20, HSN Code 85171210 has ceased to exist and 85171211 & 85171219 are being used from 2020-21 onward.

10 – Quality of Service

Table 10.1: QoS Summary of Performance of Service providers against identified parameters - Cellular Mobile Service

S.No.	Parameters	Benchmark	Performance in respect of UASL/CMTS Licensees for the Parameters and Benchmarks	
			For Quarter Ending Mar, 2022	
			Out Of 88 (Nos.)	Out Of 88 (%)
I.	***Network Related Parameters***			
1	**Network Availability**			
(i)	BS Accumulated down-time (not available for service) (%age)	≤ 2%	0	0%
(ii)	Worst affected BSs due to down-time (%age)	≤ 2%	0	0%
2	**Connection Establishment (Accessibility)**			
(i)	Call Set-up Success Rate and Session Establishment Success Rate for Circuit Switched Voice or VoLTE as applicable (within licensee's own network)	≥ 95%	0	0%
(ii)	SDCCH/ Paging Channel Congestion/ RRC Congestion (%age)	≤ 1%	0	0%
(iii)	TCH, RAB and E-RAB congestion (%age)	≤ 2%	0	0%
3	**Connection Maintenance (Retain ability)**			
(i)	Network QoS DCR Spatial Distribution Measure [Network_ QSD (90,90)]	≤ 2%	0	0.00%
(ii)	Network QoS DCR Temporal Distribution Measure [Network_ QTD (97,90)]	≤ 3%	0	0.00%
4	**Connections with good voice quality, Circuit Switched Voice Quality and VoLTE quality**	≥ 95%	0	0%
5	**Point of Interconnection (POI) Congestion (No. of POIs not meeting the benchmark) (Averaged over a period of quarter)**	≤ 0.5%	0	0%
6	**Down Link (DL) Packet Drop Rate or DL-PDR**	≤ 2%	0	0%
7	**Up Link (UL) Packet Drop Rate or UL-PDR**	≤ 2%	0	0.00%
II.	***Customer Service Quality Parameters***			
6	**Metering and Billing/**			
(i)	Metering and billing credibility - post paid	≤ 0.1%	0	0%
(ii)	Metering and billing credibility - pre paid	≤ 0.1%	0	0%
(iii)	Resolution of billing/ charging/validity complaints	98% within 4 weeks	0	0%
	Resolution of billing/charging/validity complaints	100% within 6 weeks	0	0%
(iv)	Period of applying credit/ waiver/ adjustment to customer's account from the date of resolution of complaints	within 1 week of resolution of complaint	0	0%
7	**Response time to the customer for assistance**			
(i)	Accessibility of call centre/ customer care	≥ 95%	2	2%
(ii)	%age of calls answered by the operators (voice to voice) within 90 seconds	≥ 95%	8	9.09%
8	**Termination / closure of service**			
(i)	%age requests for Termination / Closure of service complied within 7 days	100% within 7 days	0	0%
(ii)	Time taken for refund of deposits after closures	100% within 60 days	0	0%

Source: Quarterly Performance Indicator Report, TRAI.

Table 10.2: Parameter wise Analysis of Non-compliance of QoS Benchmarks for Wireless Service Providers

Parameter	Benchmark	Service Provider	Service Area	Performance in QE March 2021 (in %)
Accessibility of call centre/ customer care	≥ 95%	BSNL	Andhra Pradesh	88.50
			Karnataka	93.18
Percentage of calls answered by the operators (voice to voice) within 90 seconds	≥ 95%	Airtel	Assam	94.00
			Kolkata	88.00
			North East	94.00
			Tamil Nadu	90.00
			West Bengal	85.00
		BSNL	Andhra Pradesh	37.45
			Karnataka	21.54
			Tamil Nadu	89.34

Source: Quarterly Performance Indicator Report,TRAI.

Table 10.3 - QoS Summary of Performance of service providers against identified parameters - Wireline Service Providers

S.No.	Parameters	Benchmark	No of license areas where operators not meeting the benchmarks March, 2022 Out of 98 In Nos.	Out of 98 In %age
(i)	**"Fault repair"** Fault incidences No. of faults per 100 subs/month)	≤ 7	0	0.00%
(ii)	% Fault repaired by next working day (for urban areas)	≥ 85%	2	1.96%
	% Fault repaired within 5 days *(for urban areas)*	≥100%	2	1.96%
(iii)	% Fault repaired by next working day (for rural and hilly areas)	≥ 75%	0	0.00%
	% Fault repaired within 7 days *(for rural and hilly areas)*	≥100%	0	0.00%
(iv)	**"Mean time to Repair"**(MTTR)	≤10Hs	2	1.96%
(v)	**"Point of Interconnection"** (POI) Congestion (No. of PoIs not meeting benchmark)	≤ 0.5%	0	0.00%
(vi)	**"Metering and Billing"** Metering and billing credibility - post-paid	≤ 0.1%	0	0.00%
	Metering and Billing credibility -pre-paid	≤ 0.1%	0	0.00%
(vii)	Resolution of billing/charging /Credit & validity complaints	98% within 4 weeks	0	0.00%
	Resolution of billing/charging / Credit & validity complaints	100% within 6 weeks	0	0.00%
(viii)	Period of applying credit /waiver/adjustment to customer's	1 week of resolution of complaint	0	0.00%
(ix)	**"Response time to the customer for assistance"** Accessibility of call centre/ customer care	≥ 95%	0	0.00%
	%age of calls answered by the operators (voice to voice) within 90 seconds	≥ 95%	2	1.96%
(x)	**"Termination / closure of service"**- %age of request for Termination / closure of service complied within 7 days	100% within 7 days	2	1.96%
(xi)	Time taken for refund of deposits after closures	100% within 60 days	4	3.92%

NOTE: *Most of the SPs have not reported for the parameter "Metering and billing credibility - pre paid" due to not providing pre-paid service in Basic (Wire line) service.*

Source: Quarterly Performance Indicator Report, TRAI.

Table 10.4: Parameter wise Analysis of Non-compliance of QoS Benchmarks for Wireline Service Providers

Parameters	Benchmarks	Service Provider	Service areas	Parameters not met
% of faults repaired by next working day	For urban areas by next working day: ≥85%	MTNL	Delhi	70.34%
		MTNL	Mumbai	71.00%
% of faults repaired within 5 days	For urban areas: ≥ 100%	MTNL	Delhi	90.65%
			Mumbai	87.90%
Mean Time to Repair (MTTR)	≤ 10 Hrs	MTNL	Delhi	13.33
		MTNL	Mumbai	23.37
Percentage of calls answered by the operators (voice to voice) within 90 seconds	≥95%	Bharti Airtel	Kerala	92.00
			Tamil Nadu	93.00%
%age requests for Termination / Closure of service complied within 7 days	100% within 7 days	MTNL	Mumbai	99.84%
		Tata	Karnataka	99.00%
Time taken for refund of deposits after closures	100% within 60 days	BSNL	Himachal Pradesh	96.50%
			Punjab	98.60%
			Rajasthan	0.00%
		MTNL	Mumbai	29.93%

Source: Quarterly Performance Indicator Report,TRAI.

Table 10.5 : Summary of Performance of Broadband Service Providers against identified parameters

S. No.	Parameters	Benchmark	Quarter Ending March, 2022	
			Out of 112	Out of 112
1	**Service Provisioning**	100% in =<15 working days		
1.2	%age of connections provided within 15 days of registration of demand	100%	1	**0.73%**
2	**Faults Repair**			
2.2	% of faults repaired by next working day (>90%)	>90%	1	**0.73%**
2.3	% of faults repaired within 3 working day	=>99%	3	**2.19%**
3	**Billing Performance**			
3.3	%age of bills disputed	<2%	0	**0.00%**
3.4	%age of billing complaints resolved within 4 weeks	100% within 4 weeks	0	**0.00%**
3.5	%age of cases to whom refund of deposits is made within 60 days of closures	100% within 60 days	2	**1.46%**
4	**Response Time to the Customer for assistance**			
4.2	%age of calls answered by operator (Voice to voice) within 60 sec	>60%	0	**0.00%**
4.3	%age of calls answered by operator (Voice to voice) within 90 sec	>80%	1	**0.73%**
5	**Bandwidth utilisation/ throughput**			
5.2	No. of Intra network links having Bandwidth utilisation >90% during peak hours (TCBH)	0	0	**0.00%**
5.4	No. of Upstream links for International connectivity having bandwidth utilisation >90% during peak hours (TCBH)	0	0	**0.00%**
5.7	% International bandwidth utilization during peak hours (TCBH) (Enclose MRTG) <90%	<90%	0	**0.00%**
5.8	Broadband Connection Speed available (download) from ISP node to user	>80%	0	**0.00%**
6	**Service availability/uptime (for all users) in %age**			
6.3	Service availability/uptime (for all users) in %age	>98%	0	**0.00%**
7	**Packet loss (for wired broadband access) in %age**	<1%	0	**0.00%**
8	**Network latency (for wired broadband access)**			
8.1	User reference point at POP/ISP Gateway node to IGSP/NIXI	<120 ms	0	**0.00%**
8.2	User reference point at ISP Gateway node to International nearest NAP port abroad (terrestrial)	<350 ms	0	**0.00%**
8.3	User reference point at ISP Gateway node to International nearest NAP port abroad (satellite)	<800 ms	0	**0.00%**

Source: Quarterly Performance Indicator Report,TRAI.

Table 10.6: Parameter-wise Analysis of non-compliance of QoS benchmarks for Broadband Service Providers

Sl. No.	Parameters	Benchmark	Name of the Service Provider not meeting the Benchmark
1	**Service Provisioning**		
1.2	%age of connections provided within 15 days of registration of demand	100%	**MTNL** - All India (87.74%)
2	**Faults Repair**		
2.2	% of faults repaired by next working day (>90%)	>90%	**MTNL** - All India (69.13%),
2.3	% of faults repaired within 3 working day	=>99%	**MTNL** - All India (82.71%), **Tata (TTSL)** - Karnataka (97.25%), **TATA (TTML)** - Mumbai (97.21%)
3	**Billing Performance**		
3.5	%age of cases to whom refund of depostis is made within 60 days of closures	100% within 60 days	**BSNL** - All India (98.91%) **MTNL** - All India (64.51%)
4	**Response Time to theCustomer for assistance**		
4.3	%age of calls answered by operators (Voice to voice) within 90 seconds	>80%	**Atria Convergence** - All India (77.21%)

Source: Quarterly Performance Indicator Report,TRAI.

11 – International Comparison

Table 11.1 - Fixed-telephone Subscriptions International Comparisons (2005-2021)

(In Million)

Year ending	World	Developed	Developing	India	Africa	The Americas	Arab States	Asia & Pacific	CIS	Europe
2005	1243	570	673	**50**	10	291	30	559	52	285
2006	1261	565	696	**41**	11	284	31	577	56	286
2007	1254	546	708	**39**	11	278	33	579	58	278
2008	1249	544	705	**38**	12	287	35	567	59	275
2009	1254	562	692	**37**	13	277	34	571	60	282
2010	1229	553	676	**35**	12	274	35	553	60	278
2011	1202	540	661	**33**	12	269	35	537	59	272
2012	1179	527	653	**31**	11	266	35	528	58	265
2013	1142	516	626	**29**	10	259	33	504	56	262
2014	1095	503	592	**27**	10	252	30	476	55	257
2015	1032	493	539	**26**	10	249	30	439	51	251
2016	995	482	513	**24**	11	245	32	412	48	246
2017	971	470	501	**23**	11	235	33	403	47	241
2018	959	456	502	**22**	9	226	35	392	45	236
2019	930	440	490	**21**	8	215	37	384	42	229
2020	908	428	480	**20**	8	210	41	372	41	223
2021	884	413	471	**24**	7	202	43	362	38	214

Source- ITU Website

Table 11.2 - Fixed-telephone Subscriptions per 100 Inhabitants International Comparisons (2005-2021)

Year ending	World	Developed	Developing	India	Africa	The Americas	Arab States	Asia & Pacific	CIS	Europe
2005	19	47	13	**4**	2	33	9	15	23	44
2006	19	47	13	**3**	2	32	10	16	25	44
2007	19	45	13	**3**	2	31	10	15	25	43
2008	19	44	13	**3**	2	31	10	15	26	42
2009	18	46	12	**3**	2	30	10	15	26	43
2010	18	45	12	**3**	2	29	10	14	26	42
2011	17	43	12	**3**	1	28	10	14	26	41
2012	17	42	11	**2**	1	28	9	13	25	40
2013	16	41	11	**2**	1	27	9	13	24	39
2014	15	40	10	**2**	1	26	8	12	23	38
2015	14	39	9	**2**	1	26	8	11	22	37
2016	13	38	8	**2**	1	25	8	10	20	36
2017	13	37	8	**2**	1	24	8	10	20	35
2018	13	36	8	**2**	1	23	8	9	19	35
2019	12	35	8	**2**	1	21	9	9	18	34
2020	12	33	7	**1**	1	21	9	9	17	33
2021	11	32	7	**2**	1	20	10	8	16	31

Source- ITU Website

Table 11.3 - Mobile Cellular Subscriptions International Comparisons (In million) (2005-2021)

Year ending	World	Developed	Developing	India	Africa	The Americas	Arab States	Asia & Pacific	CIS	Europe
2005	2205	992	1213	**90**	87	459	84	833	135	581
2006	2745	1127	1618	**166**	129	553	125	1074	177	661
2007	3368	1243	2125	**234**	174	649	174	1398	209	735
2008	4030	1325	2705	**347**	246	741	213	1773	254	771
2009	4640	1383	3257	**525**	299	809	264	2164	297	771
2010	5290	1404	3887	**752**	366	881	312	2625	318	761
2011	5890	1406	4483	**894**	441	952	352	3029	300	783
2012	6261	1443	4817	**865**	510	995	382	3234	306	800
2013	6662	1479	5183	**886**	581	1043	408	3463	319	814
2014	6996	1527	5469	**944**	644	1093	415	3681	323	809
2015	7152	1573	5580	**1001**	714	1103	419	3778	325	809
2016	7481	1595	5886	**1128**	714	1114	417	4094	329	808
2017	7724	1605	6119	**1169**	725	1104	417	4331	331	812
2018	7997	1635	6362	**1176**	783	1124	416	4497	333	810
2019	8296	1677	6619	**1151**	835	1136	422	4701	354	814
2020	8335	1701	6634	**1154**	897	1164	423	4654	352	812
2021	8648	1727	6921	**1154**	908	1225	433	4877	357	812

ource- ITU Website

Table 11.4 - Mobile-Cellular Subscriptions per 100 Inhabitants International Comparisons (2005-2021)

Year ending	World	Developed	Developing	India	Africa	The Americas	Arab States	Asia & Pacific	CIS	Europe
2005	34	82	23	**8**	12	52	27	23	59	89
2006	42	93	30	**14**	18	62	39	29	77	101
2007	51	102	39	**20**	24	72	53	37	91	112
2008	60	108	49	**29**	32	81	63	47	110	117
2009	68	112	58	**43**	38	87	77	56	129	117
2010	77	113	69	**61**	44	94	88	67	137	115
2011	84	113	78	**71**	52	101	96	77	129	118
2012	89	116	83	**68**	58	104	102	81	130	120
2013	93	118	88	**69**	65	108	107	86	135	122
2014	97	122	91	**72**	70	112	106	90	136	121
2015	97	125	92	**76**	76	113	106	92	138	119
2016	101	126	95	**84**	74	113	103	98	139	119
2017	103	126	98	**86**	73	111	101	103	139	119
2018	105	128	100	**86**	77	112	99	106	139	119
2019	108	131	103	**83**	80	113	99	110	147	119
2020	107	133	102	**83**	84	114	97	108	145	118
2021	110	135	105	**82**	83	119	98	112	146	118

Source- ITU Website

Table 11.5 - Fixed Broadband Subscriptions International Comparisons (2005-2021)

(In Million)

Year ending	World	Developed	Developing	India	Africa	The Americas	Arab States	Asia & Pacific	CIS	Europe
2005	220	148	71	**1**	0	66	1	80	2	66
2006	284	188	96	**2**	1	81	2	104	3	90
2007	346	219	127	**3**	1	98	3	122	5	113
2008	411	250	161	**5**	1	112	4	151	10	128
2009	468	271	197	**8**	1	120	6	183	15	140
2010	526	291	236	**11**	1	134	7	214	19	151
2011	598	313	285	**13**	2	146	9	253	23	161
2012	649	328	321	**15**	2	155	11	280	27	167
2013	692	343	349	**15**	3	164	12	299	31	175
2014	731	354	377	**16**	4	171	14	318	34	182
2015	835	373	463	**17**	4	182	19	404	36	190
2016	910	385	525	**19**	4	190	20	460	38	198
2017	1020	400	620	**18**	4	198	29	540	43	206
2018	1076	413	662	**18**	5	207	31	564	44	216
2019	1146	426	720	**19**	5	216	33	614	46	223
2020	1228	442	786	**23**	6	231	38	663	47	232
2021	1313	458	855	**28**	7	240	42	727	50	238

Source- ITU Website

Table 11.6 - Fixed Broadband Subscriptions per 100 Inhabitants International Comparisons (2005-2021)

Year ending	World	Developed	Developing	India	Africa	The Americas	Arab States	Asia & Pacific	CIS	Europe
2005	3	12	1	**0**	0	8	0	2	1	10
2006	4	16	2	**0**	0	9	1	3	1	14
2007	5	18	2	**0**	0	11	1	3	2	17
2008	6	20	3	**0**	0	12	1	4	5	20
2009	7	22	4	**1**	0	13	2	5	7	21
2010	8	24	4	**1**	0	14	2	6	8	23
2011	9	25	5	**1**	0	15	2	6	10	24
2012	9	26	6	**1**	0	16	3	7	12	25
2013	10	27	6	**1**	0	17	3	7	13	26
2014	10	28	6	**1**	0	18	4	8	14	27
2015	11	30	8	**1**	0	19	5	10	15	28
2016	12	30	9	**1**	0	19	5	11	16	29
2017	14	32	10	**1**	0	20	7	13	18	30
2018	14	33	10	**1**	0	21	7	13	19	32
2019	15	33	11	**1**	1	21	8	14	19	33
2020	16	35	12	**2**	1	23	9	15	20	34
2021	17	36	13	**2**	1	23	9	17	20	35

Source- ITU Website

Table 11.7 - Active Mobile Broadband Subscriptions International Comparisons (2005-2021)

(In Million)

Year ending	World	Developed	Developing	India	Africa	The Americas	Arab States	Asia & Pacific	CIS	Europe
2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2007	268	225	43	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2008	422	336	86	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2009	615	450	165	**0**	N/A	N/A	N/A	N/A	N/A	N/A
2010	807	554	253	**0**	14	238	28	286	60	190
2011	1184	712	471	**12**	23	342	49	431	85	252
2012	1550	829	721	**22**	51	441	64	583	97	308
2013	1959	927	1032	**40**	94	536	99	752	115	356
2014	2660	1016	1645	**70**	121	661	134	1192	128	428
2015	3282	1126	2156	**120**	180	771	168	1554	143	465
2016	3863	1229	2633	**217**	213	844	184	1932	155	533
2017	4723	1381	3342	**345**	253	894	222	2588	174	588
2018	5312	1485	3827	**507**	303	949	245	2970	186	629
2019	5745	1584	4162	**643**	356	996	263	3221	209	670
2020	6023	1625	4398	**725**	409	1021	279	3374	214	696
2021	6544	1678	4866	**766**	448	1060	297	3755	230	723

Source- ITU Website

Table 11.8 - Active Mobile Broadband Subscriptions per 100 Inhabitants International Comparisons (2005-2021)

Year ending	World	Developed	Developing	India	Africa	The Americas	Arab States	Asia & Pacific	CIS	Europe
2005	N/A	N/A	N/A	**N/A**	N/A	N/A	N/A	N/A	N/A	N/A
2006	N/A	N/A	N/A	**N/A**	N/A	N/A	N/A	N/A	N/A	N/A
2007	4	19	1	**N/A**	N/A	N/A	N/A	N/A	N/A	N/A
2008	6	28	2	**N/A**	N/A	N/A	N/A	N/A	N/A	N/A
2009	9	37	3	**0**	N/A	N/A	N/A	N/A	N/A	N/A
2010	12	45	5	**0**	2	25	8	7	26	29
2011	17	57	8	**1**	3	36	13	11	36	38
2012	22	67	12	**2**	6	46	17	15	42	46
2013	27	74	18	**3**	11	56	26	19	49	53
2014	37	81	28	**5**	13	68	34	29	54	64
2015	45	89	35	**9**	19	79	42	38	61	69
2016	52	97	43	**16**	22	86	46	46	65	78
2017	63	109	54	**25**	26	90	54	62	73	86
2018	70	117	60	**37**	30	95	59	70	78	92
2019	75	124	65	**46**	34	99	62	75	87	98
2020	77	127	68	**52**	38	100	64	78	88	102
2021	83	131	74	**54**	41	103	67	87	94	105

Source- ITU Website

Table 11.09 - ICT Development Index (IDI 2017) - India's Profile at a Glance

Region	**Asia-Pacific Developing**	Population (in million)	1297.07
GNI per capita	1680	Population density (per 100 inhabitants)	409.58
IDI 2017 Rank	134/176	IDI 2016 Rank	138
IDI 2017 value	3.03	IDI 2016value	2.65
Regional IDI 2017 Rank	25		
IDI ACCESS SUB-INDEX	3.6	**IDI USE SUB-INDEX**	1.62
Fixed -telepohone subscription per 100 inhabitants	1.88	Percentage of individuals using the Internet	29.55
		Fixed(wired)-broadband subscriptions per 100 inhabitants	1.44
Mobile-cellular telephone subscriptions per 100	86.95	Active mobile -broadband subscriptions per 100 inhabitants	16.76
International internet bandwidth per Internet user (Bit/s	15956.28		
Poercentage of households with computer	15.2	**IDI SKILLS SUB-INDEX**	4.73
Percentage of households with Internet access	22.64	Mean years of schooling	6.3
		Secondary gross enrolment ratio	74.28
		Tertiary gross enrolment ratio	25.54

Source : ITU

Table 11.10 - Fixed Telephone Subscriptions

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Afghanistan	110000	114192	118769	127794	134636	145787	0
Albania	226718	248640	246720	248631	242859	223469	197690
Algeria	3267592	3404709	4100982	4200919	4635217	4784306	5097059
American Samoa	10000						0
Andorra	38850	38694	38411	39375	39657		0
Angola	284925	304493	161070	171858	124726	119164	119826
Anguilla	6000						0
Antigua and Barbuda	20000	22504	24000				0
Argentina	10073125	10164849	9744368	9764014	7737345	7356165	6903068
Armenia	551366	531624	501013	477932	451571	427539	418122
Aruba	35000						0
Ascension	589	576	1000				0
Australia	8500000	8480000	8460000	8200000	7820000	6200000	4600000
Austria	3609900	3567200	3762801	3772429	3753076	3786725	3808709
Azerbaijan	1796027	1700233	1688325	1681407	1673211	1652688	1644300
Bahamas	120925	121088	113852	113455	91129		0
Bahrain	280115	279864	299815	274733	274541	266659	266741
Bangladesh	864263	766183	707568	1449646	1449646	1450321	587482
Barbados	149532	139715	120471	128043	138312		120980
Belarus	4540676	4515382	4499821	4488821		4406585	4332754
Belgium	4488711	4371055	4281818	4106864	3930410	3634639	3293420
Belize	23603	22400	21084	20869	18500		0
Benin	194666	124883	56787	48508	35917	32386	11493
Bermuda	12000	20351	21883				0
Bhutan	21811	21081	21364	22015	21581	22987	19680
Bolivia (Plurinational State of)	881235	867346	851110	711961		598082	539481
Bosnia and Herzegovina	772684	744991	759344	792535	790620	706135	689295
Botswana	160490	142122	141207	142481	141077	139931	132457
Brazil	43677141	42003948	40375698	38311924	33700982	30653813	28883475
British Virgin Islands	11754	11167	9544	6222			0
Brunei Darussalam	76002	74213	83794	82588	86590	103885	112298
Bulgaria	1654879	1478975	1289853	1120392	972255	872323	787637
Burkina Faso	75075	75727	76000	76760	75291	75039	81374
Burundi	21774	19540	23409	24810	20936	18300	15976
Cabo Verde	63584	64724	64970	62680	57511	57668	53586
Cambodia	256387	227261	132911	88157	56445		40296
Cameroon	1050281	1051073	885762	902253	925978	883015	739572
Canada	15612271	15155520	14469000	13842000	13267000	13926000	12928000
Cayman Islands	33534	34116	34768				0
Central African Rep.	1881	1964	2104	2193			0
Chad	17029	13332	8664	9036	6524	5340	0
Chile	3445880	3375037	3200245	2997192	2750272	2567938	2510972
China	230996000	206624000	193757000	192085000	191033000	181908000	180700500
Colombia	7109254	7115984	6987654	6973573	7012306	7248026	7567395
Comoros	14599	13049	17212	10320	10042	7573	7431
Congo (Rep. of the)	17000	17000	17000				
Cook Islands		6502	6576				0
Costa Rica	859514	838346	814910	774303	630843	559882	553455
Croatia	1476506	1435977	1401354	1355662	1333661	264073	1268941
Cuba	1295857	1322002	1349188	1444480	1508074	1300105	1539269
Curacao	62571	59231	61709	58805		1502230	0
Cyprus	323707	320573	317241	311559	323914		304581
Czech Republic	1906594	1758590	1640094	1511942	1473000	311439	1294806
Côte d'Ivoire	277248	289108	305562	302398	271724	1316316	265513

Source: ITU Data Base - ITU Website

Table 11.10 - Fixed Telephone Subscriptions (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Dem. People's Rep. of Korea	1180000	1180000	1180000				0
Denmark	1696995	1557101	1235627	1131064	1004956	937469	706604
Djibouti	22902	24925	36582	36855		38866	27326
Dominica	20585	13328	12961	2660			0
Dominican Rep.	1304968	1345091	1329852	1277247	1210018	1155493	1154670
Ecuador	2512657	2451623	2415204	2360581	2195840	2063044	1846666
Egypt	6235133	6118250	6604849	7865286	8760436	9858331	11030900
El Salvador	944266	941184	928433	923029			856090
Equatorial Guinea	11334	10989	11179	10848			0
Eritrea	66000	66086	66170				0
Estonia	387607	370589	362117	345690	324388	304728	296620
Eswatini	43000	42000	41000				0
Ethiopia	890642	1147000	1181000				0
Falkland (Malvinas) Is.	2000	2255	2000				0
Faroe Islands	20083	19078	18021	17188		15341	0
Fiji	72565	74182	75952	76522			0
Finland	537200	457300	378000	323000	269000	225000	207000
France	38929000	39006000	38728000	38132000	37797000	37759000	0
French Polynesia	60693	60530	86631	90278			108051
Gabon	18758	18946	21235	21818		25428	31708
Gambia	45000	37969	32040	44000			0
Georgia	950167	840431	713826	604348	517617	378498	337923
Germany	45350000	45300000	44400000	42500000	40400000	38300000	38600000
Ghana	275570	251490	301551	278379	288531	307668	315271
Gibraltar		17027	19753	17671	16968		17167
Greece	5260560	5200950	5176475	5078083	5001508	4743310	4913036
Greenland	16000		9267	8060	7133		
Grenada	27034	26776	32491	22542			0
Guam	68000						0
Guatemala	1718851	2454778	2461109	2436093	1974006	2272467	2319643
Guyana	154057	141595	135795				0
Haiti	5692	5692	5922	5922			0
Honduras	497072	442929	491107	532004	490103	531763	465521
Hong Kong, China	4331725	4318346	4249372	4196061	4053512	3934129	3856180
Hungary	3094228	3119735	3131598	3079730	3048754	2970347	2955979
Iceland	168149	164566	146213	136713	125567	107032	100482
India	25520000	24404000	23234687	21868192	21004534	20052162	23773751
Indonesia	10378037	10752912	11053303	8303511	9477137	9186370	8998814
Iran (Islamic Republic of)	30418973	30869311	31069938	30481734	28954855	29093587	29306782
Iraq	1997000	2031000	3237858	2705028		4166461	3048736
Ireland	1932059	1917742	1872309	1829166	1767476	1678651	1595061
Israel	3412000	3340223	3240000	3200000	3040000	3080000	3500000
Italy	20209324	20267173	20700659	20396603	19621081	19430559	19994902
Jamaica	252849	310213	297027	363820	398048	436249	473617
Japan	63705579	64130388	64066893	63525713		62252837	61583600
Jordan	368938	404112	357203	369145	356046	391486	427517
Kazakhstan	4147800	3931100	3686600	3350900	3210500	3108400	2997400
Kenya	85496	72801	69861	65644	70394	66646	61096
Kiribati	1477	871	765	0	20	33	10
Korea (Rep. of)	28882783	28035600	26844692	25906849	24727415	23858239	23213189
Kuwait	480000	533234	542082	515542		583463	
Kyrgyzstan	408037	382149	362288	331140	298855		0
Lao P.D.R.	962497	1266605	1125469	1482276	1490831		1300195
Latvia	356000	362940	342296	266214	227616	211849	191798

Source: ITU Data Base - ITU Website

Table 11.10 - Fixed Telephone Subscriptions (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Lebanon	1012849	1816262	907881	893529	882175	875480	0
Lesotho	40570	41158	10637	8328		11574	9559
Liberia	9000	8000					0
Libya	1063265	1374408	1576000				0
Liechtenstein	17336	16385	15342	15243	14032	12723	11712
Lithuania	561919	530871	486895	427066	368213	322108	290711
Luxembourg	276900	276400	275300	273530	267400	268090	0
Macao, China	146138	142000	138000	123469			0
Madagascar	148635	148585	68792	69046			26271
Malawi	14462	11234	17337	14992	13101	12465	12465
Malaysia	4489500	4837200	6580800	6433300	6474400	7467900	8247100
Maldives	21911	21137	20378	18754	16664	14508	14005
Mali	169006	200812	214893	228097		281638	301055
Malta	230226	234368	240280	255437	257010	259456	259439
Mauritania	51294	53191	57057	59959	61858	62099	58094
Mauritius	380000	389500	413100	434300		478700	469100
Mayotte	10000						0
Mexico	20170913	20820073	20752662	21645824	22519654	23800105	24366595
Micronesia	6808	6883	6947				0
Moldova	1202466	1171287	1143852	1108200	1071514	1027689	1000228
Monaco	49085	46575	47013	43374	44119	43706	42812
Mongolia	255634	225287	292594	369853	395922	160153	399237
Montenegro	154448	148015	152155	172880	188175	191768	189519
Montserrat	3000						0
Morocco	2222370	2070173	2046390	2199140	2054545	2357286	2460155
Mozambique	89292	82421	80545	63006			59682
Myanmar	514920	514385	556112	520863			522141
Namibia	182507	187853	193045	154816	139698	141334	91869
Nepal (Republic of)	846940	858237	861299	799368			0
Netherlands	6951528	6774000	6551000	5900000	5560000	4937000	5024000
New Caledonia	77719						0
New Zealand	1850000	1760000	1790000	1760000			651000
Nicaragua	354017	366636	375856	325821	228782	210981	207577
Niger	110000	160848	114352				0
Nigeria	187155	154513	139344	140491		107031	106385
Niue	1000						0
North Macedonia	371003	368370	366529	382901	394728	408618	425646
Northern Marianas	22000						0
Norway	944510	807163	686718	560945		348808	0
Oman	434932	422518	509756	560326	592196	594550	572166
Pakistan	3537600	3104415	2940243	2798606	2461916	2876794	2989133
Palau	7204						0
Palestine	406500	432000	476239	469741		466283	485829
Panama	620436	652816	662588	728379	741269	616698	790486
Papua New Guinea	150000	154000	158000				0
Paraguay	344853	350455	294280	302754			203971
Peru	2911495	3074464	3082036	2728617			2266025
Philippines	3223787	3781962	4163282	4132490	4165209		5028018
Poland	9053648	8143145	7412432	6575246	6824896	5777428	5308497
Portugal	4682997	4787677	4831284	5073815	5128714	5212507	5318750
Puerto Rico	813106	813546	783739	703266	686901	711512	726739
Qatar	459887	467148	461561	452088	461289	454701	460240
Romania	4270000	4110000	3890000	3660000	3380000		2606000
Russian Federation	35553328	32276615	31952072	30108289		3025000	

Source: ITU Data Base - ITU Website

Table 11.10 - Fixed Telephone Subscriptions (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Rwanda	16983	13403	12333	12960	11393		11893
Réunion						11671	0
Saint Kitts and Nevis	19748	17433	17293	16146			0
Saint Lucia	34874	35545	35014	36469			0
Saint Vincent and the Grenadines	24865	20550	20092	19219	12934	12483	11385
Samoa	11453	9679	8454				0
San Marino	16550	16000	18000	16500	16000		16000
Sao Tome and Principe	6441	5733	5569	5299	4784	2720	2619
Saudi Arabia	3746906	4238774	4659836	5387405	5377978	5749058	6594631
Senegal	300219	285933	290636	302243	207592		261440
Serbia	2770462	2684419	2609601	2574691	2565091	2572169	2540276
Seychelles	21341	20836	19652	20290	20122	18882	18768
Sierra Leone	17000	17000	17000	4352	3434	189	269
Singapore	2016100	1998400	1991700	2001000	1905800	1891600	1887500
Slovakia	866630	823594	758842	722704	675297	616148	577390
Slovenia	753082	728686	739121	722802	707059	704909	695444
Solomon Islands	7438	7405	7405	7430	7104		0
Somalia	51000	48000		74800			91000
South Africa	4131055	4522850	4810074	3345440	2024730	2098802	1472191
Spain	19373709	19487737	19587220	19484361	19816880	19455779	19075931
Sri Lanka	3287676	2479802	2603178	2473875		2428957	2869186
St. Helena	2728	2758	3000				0
Sudan	118954	136472	143280	136923	137842	129408	129408
Suriname	91916	89030	89030	88098	92756	103240	119977
Sweden	3554665	3104305	2622159	2392386	1924972	1624271	1382146
Switzerland	4140000	3772545	3559361	3269952	3100000	2952000	2956500
Syrian Arab Republic	3539665	3464846	2726193	2740000	2843103	2892515	2821171
Taiwan, Province of China	13916334	13770996	13565064	13174334	12971902	12750429	12534991
Tajikistan	457000	468000	479000				0
Tanzania	142819	129597	127094	124238	76288	72469	71834
Thailand	5309000	4706000	3466000	2929000	2614000	5003000	4634000
Timor-Leste	2720	2545	2381	2206	2075	2012	1876
Togo	52690	33817	36111	37691	43605	46499	0
Tonga	13220	11000	14697	14697	6637		10824
Trinidad and Tobago	270872	272187	257445	319401	343385	323905	341434
Tunisia	943642	974129	1113168	1302015	1454183	1533273	1659093
Turkey	11493057	11077559	11308444	11633461	11532903	12448604	12310016
Turkmenistan	648000	665000	682000				0
Turks & Caicos Is.	4000						0
Tuvalu	2000	2000	2000				0
Uganda	328811	368243	262286	186902		90774	105086
Ukraine	9113061	8451229	7186579	6074255	4182994	3314263	2282786
United Arab Emirates	2258646	2285809	2320837	2341392	2362602	2380866	2242982
United Kingdom	33211498	32633398	32148366	31919894		32078000	32192000
United States	124848000	121343000	116297000	110439000	107281000	103052000	97113000
Uruguay	1106431	1113566	1136977	1153533	1165373		1235626
Uzbekistan	2816611	3412921	3444330	3460258	3553310	3550069	3470097
Vanuatu	4797	4555	4511	4154	3809	3472	3644
Venezuela	7780096	7660417	5928714	5547291	5467044	5276274	3391077
Viet Nam	7324947	5598017	4385427	4296301	3658005	3205775	3122490
Virgin Islands (US)	76000						0
Yemen	1142227	1165828	1190000				0
Zambia	116165	101407	101444	100444	96719	71844	65913
Zimbabwe	333702	305720	264150	268849	265734	252067	243421

Source: ITU Data Base - ITU Website

Table 11.11 - Mobile-cellular telephone subscriptions; by postpaid/prepaid

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Afghanistan	19709038	21602982	23929713	21976355	22580071	22678024	0
Albania	3400955	3369756	3625699	2714878	2630076	2618880	2635466
Algeria	43227643	47041321	45845665	47154264	47081131	45555673	47028685
Andorra	71336	76132	80337	82614	87909		0
Angola	13884532	13001124	13323952	13288421	14830154	14645050	15327864
Anguilla	26000						0
Antigua and Barbuda	176000	180000	184000				0
Argentina	61842011	63719805	61897379	58598041	58606442	54763900	59065827
Armenia	3464490	3434567	3488524	3579257	3618747	3488797	3599278
Aruba	141000						0
Ascension	298	519	1000				0
Australia	25770000	26551000	26660000	27640000	27880000	27454000	27090000
Austria	13470623	11079460	10859000	10984000	10726000	10682294	10882217
Azerbaijan	10697132	10189000	10127000	10339700	10750300	10344300	10817071
Bahamas	311175	360200	353540	388707	425507		0
Bahrain	2519055	2994865	2364477	2092714	1900361	1748672	1923443
Bangladesh	131375724	135981846	150945000	161771617	165572000	170136762	181021227
Barbados	334792	332208	329565	329326	311734		316633
Belarus	11448281	11439866	11415141	11619651		11704084	11760087
Belgium	12774090	12550821	11357286	11447351	11509573	11529728	11740118
Belize	211946	222928	239441	246311	254919		0
Benin	9317955	8892490	8773044	9461872	10349847	11140891	12731782
Bermuda	38000	63891	64997				0
Bhutan	675747	698373	730623	703554	729239	745137	778008
Bolivia (Plurinational State of)	10162829	10106216	10963224	11445830		11804343	12033941
Bosnia and Herzegovina	3443520	3404043	3440085	3461058	3694050	3509674	3728775
Botswana	3475327	3288986	3240589	3381228	4004089	3819019	4160553
Brazil	257814274	244067356	218244270	207046813		205834781	219660524
British Virgin Islands	57195	39689	44043	39954		35163	0
Brunei Darussalam	463384	523453	544732	565949	557398	526732	603486
Bulgaria	9194633	8973869	8532908	8387160	8134581	7945739	7902756
Burkina Faso	14446897	15404040	17946375	19339109	20364508	22117218	24678315
Burundi	4997696	5357816	5920612	6317965	6643411	6631154	7740494
Cabo Verde	611468	601956	612259	610328	595681	544729	590171
Cambodia	20850543	19915503	18572973	19417123	21418681		19899790
Cameroon	18160667	18717503	20135388	18455836	21155316	25245134	22442414
Canada	29765000	30752000	31693000	33211000	34615000	36093021	32723000
Cayman Islands	93244	95656	96656				0
Central African Rep.	1242494	1248346	1175389	1279261	1530385		0
Chad	5465797	5585709	6368600	6984130	7664839	8687151	0
Chile	23206353	23302603	23013147	25178981	25051668	25068249	26571823
China	1291984200	1364934000	1469882500	1649301700	1725695000	1696356000	1732661400
Colombia	57327470	58684924	62220014	64513977	66283175	67672570	75056111
Comoros	424786	454389	468914	498903	575218	472815	853449
Congo (Rep. of the)	5216000	5424000	5056000	5000000			5558658
Cook Islands		13852	14539				0
Costa Rica	7535599	8330664	8840342	8495585	8171211	7512370	7834435
Croatia	4415660	4414347	4315580	4388476	4404652	40095246	4402213
Cuba	3335346	3987900	4613782	5373316	6042629	4375699	7103296
Curacao	190489	186644	187184	186390		6661763	0
Cyprus	1111123	1133780	1176801	1200378	1243151		1320794
Czech Republic	12454575.01	12485045	12636359	12704262	13205000	1230706	13129905
Côte d'Ivoire	25407610	27451250	31747233	33807850	37376603	12999353	44561505
Dem. People's Rep. of Korea	3240000	3606000	3810000				0
Dem. Rep. of the Congo	37752782	28889317	35375246	36470600	37123208	40798396	0

Source: ITU Data Base - ITU Website

Table 11.11 - Mobile-cellular telephone subscriptions; by postpaid/prepaid (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Denmark	7079249	6985035	7140859	7216215	7243465	7144123	7287875
Djibouti	314350	345246	373052	395037		434035	489339
Dominica	77254	78444	75230	75771			0
Dominican Rep.	8797247	8708131	8769127	8937647	8948107	8989587	9735351
Ecuador	12943791	13882280	14651404	15772838	15853100	15485366	16789600
Egypt	94016152	97791441	102958194	93784497	95340262	95357427	103449734
El Salvador	9334132	9637259	9478044	9433495			11071073
Equatorial Guinea	533336	575650	566113	591223			0
Eritrea	475000	506000	695000				0
Estonia	1903545	1897921	1904425	1924034	1951051	1925789	1980838
Eswatini	941000	995000	1052000				0
Ethiopia	42311629	51224000	39600000				0
Falkland (Malvinas) Is.	4400	4674	5000				0
Faroe Islands	53213	54487	56619	56792		59003	0
Fiji	965950	1044685	1033915				0
Finland	7396200	7220100	7160000	7150000	7150000	7120000	7150000
France	66681000	67571000	69018000	70422000	72043000	72751000	0
French Polynesia	268334	280111	287839	302673			322918
Gabon	2821555	2962486	2663243	2930554		3088742	3144609
Gambia	2715672	2838127	2966000	3181393		2677954	0
Georgia	5550730	5531875	5502395	5459239	5384462	5100101	5163558
Germany	96360000	103470000	109700000	107500000	107200000	107500000	106400000
Ghana	35008387	38305078	36751761	40934875	40857077	40461609	40454073
Gibraltar	41441	41136	41035	41045	40537		
Greece	12566649	12538927	12937106	12170757	11882081	11412995	11494008
Greenland	61000		62232	62537	64878		66605
Grenada	119767	118973	113177	116184			0
Guatemala	18121390	18264520	19986482	20467520	20874130	20390671	22124839
Guinea	10764000	11110000	11700000	12013000	12873000		0
Guinea-Bissau	1238493	1285835	1434822	1480491	1590381	1913858	2236511
Guyana	542598	584659	643210				0
Haiti	7300000	6504010	6305862	6399044			0
Honduras	8048388	7832802	8233499	7588554	7089691	6960654	7560710
Hong Kong, China	16724440	17584969	18394762	19898785	21455736	21865215	23939650
Hungary	9900582	9952001	9945037	10041939	10272694	10332660	10248653
Iceland	383919	401613	401231	411361	413446	421384	437270
India	1001056000	1127809000	1168902277	1176021869	1151480361	1153709832	1154046584
Indonesia	338948340	385573398	435193605	319434605	345025155	355748606	365872608
Iran (Islamic Republic of)	74218815	80520249	87046953	88722442	118061419	127624951	135889424
Iraq	33559000	33447000	33415690	36527353		36946600	37649112
Ireland	4902009	4875116	4898872	4971493	5145256	5234027	5373865
Israel	10570000	10570000	10540000	10700000	10800000	11400000	12500000
Italy	87691238	85955905	83871543	83342486	80580548	77796840	78114933
Jamaica	3137213	3267344	3091222	2964974	3023873	2873259	2905408
Japan	160559734	166852753	172789990	179872794		192284308	200478808
Jordan	13797968	9818446	9703287	8731760	7778770	6987891	7275563
Kazakhstan	26309300	25534800	26693300	26065600	25709000	25177000	24323000
Kenya	37715944	38982188	42815109	49501430	54555497	61408904	65085720
Kiribati	41000	52000	46123	53338	54658	54661	54527
Korea (Rep. of)	58935081	61295538	63658688	66355778	68892541	70513676	72855492
Kuwait	7664743	7659365	7138833	7099848	7327028	6770346	6918180
Kyrgyzstan	7579439	7613528	8467966	8735246	8622565		0
Lao P.D.R.	3727162	3958510	3711813	3662336	4362183		4822973
Latvia	2590000	2650273	2464122	2070180	2071814	2051359	2161725
Lebanon	4657651	4277043	4399085	4424185	4237962	4288221	0

Source: ITU Data Base - ITU Website

Table 11.11 - Mobile-cellular telephone subscriptions; by postpaid/prepaid (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Lesotho	2140141	2282917	2380804			1562648	1821374
Liberia	3652000	3117002	2660000				0
Libya	9747080	7660068	6020000				0
Liechtenstein	40950	44298	46402	47272	48307	48904	49264
Lithuania	4184053	4204692	4361329	4590441	4658823	4742427	3726653
Luxembourg	806800	764000	794000	798600	835900	890000	0
Macao, China	1896097	1969972	2047000	2181194			0
Madagascar	10693765	7998253	8730499	10654710			16279633
Malawi	6566707	7178384	7772503	7076906	8901027	10004680	11940135
Malaysia	44104000	43464500	42338500	42413400	44601400	43723600	47201700
Maldives	739790	812128	900120	857934	828042	717708	706043
Mali	22698915	20217697	22034110	21955565		25315598	21882251
Malta	524161	585470	604759	615843	634768	633123	644955
Marshall Islands	15500		16000				0
Mauritania	3644483	3614172	4074157	4566502	4710800	4932571	6512361
Mauritius	1762300	1814000	1839500	1918000		1912900	1971300
Mexico	107688282	111730635	114329353	120173510	121366834	120481969	123920752
Micronesia	22505	23412	23114				0
Moldova	3713137	3788490	3746644	3636931	3613846	3420383	3900179
Monaco	34020	33297	32978	32689	33783	35485	36255
Mongolia	3068156	3367573	3886167	4222041	4418919	4363919	4687304
Montenegro	1007890	1040747	1044674	1134412	1150998	1080089	1120074
Montserrat	5000						0
Morocco	43079696	41513933	43916066	44737885	46666722	49421023	52012000
Mozambique	20134932	15025598	11875506	14074248			13686234
Myanmar	40993717	50586416	47946665	61143964			67930093
Namibia	2549817	2659951	2680196	2759293	2822943	2594382	2915307
Nauru	9400	9900	10000				0
Nepal (Republic of)	27516055	32120305	36096396	39178451			0
Netherlands	20809054	20890000	20532000	21108000	21762000	21415000	21888000
New Caledonia	260277						0
New Zealand	5600000	6100000	6400000	6400000			5846000
Nicaragua	7264151	7745512	8179876	7441527	5788432	5976479	6233864
Niger	8959000	7471802	8778884				0
Nigeria	150830089	154342168	144920170	172730603		204228678	195128265
North Macedonia	2083583	2050494	2008008	1969109	2055339	1833689	1941352
Norway	5714890	5729569	5719665	5720892		5825584	0
Oman	6646655	6866260	6943910	6440889	6383458	6276535	6115537
Pakistan	125899638	136489014	144525637	153986607	165405847	175624364	188711452
Palau	23743						0
Palestine	3531000	3713190	3996206	4375502		4267767	4052966
Panama	5741929	5141768	5280195	5722370	5599005	5708163	6003255
Papua New Guinea	3560000	3782000	4018000				0
Paraguay	7411986	7489474	7468275	7439692			7975074
Peru	34235810	36933161	38915386	42154771			43129394
Philippines	117838074	120096895	115824982	134592608	167322432		163345244
Poland	54537230	53001776	50458854	51098747	52268128	49350724	50588785
Portugal	11714693	11572085	11764106	11859548	11909751	11854999	12476165
Puerto Rico	3204993	3252176	3389402	3330286	3371969	3483570	3661176
Qatar	3740469	3652579	3988562	3945978	3917571	3798514	3876499
Romania	23120000	22900000	22400000	22634000	22671000		22929000
Russian Federation	227288088	229126152	227299663	229431008	239795946	22592000	246569033
Rwanda	8759619	8921533	8819217	9700609	9658548	238733217	10902989
Réunion						10614408	0
Saint Kitts and Nevis	73009	76583	76878				0

Source: ITU Data Base - ITU Website

Table 11.11 - Mobile-cellular telephone subscriptions; by postpaid/prepaid (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021-value
Saint Lucia	187741	176648	176694	184944			0
Saint Vincent and the Grenadines	113371	112649	115844	105875	102700	97059	114892
Samoa	120517	151008	124211				0
San Marino	36624	36570	38000	38500	38750		40000
Sao Tome and Principe	184971	178047	173963	162610	165761	174203	189239
Saudi Arabia	52796066	47932521	40210965	41310584	41298629	43215439	45427321
Senegal	14959477	15186485	15758366	16559942	17880594	19078948	19859981
Serbia	9155664	9094447	8621771	8431365	8453887	8260758	8501519
Seychelles	148244	151857	167282	178946	193672	183498	184161
Sierra Leone	5657000	6279270	6625000	6355151	6729804	6884201	8227093
Singapore	8233100	8460700	8381900	8568400	9076700	8427500	8660700
Slovakia	6675553	6989902	7117753	7241702	7399534	7289707	7362325
Slovenia	2353926	2385757	2443172	2465857	2511979	2550895	2607268
Solomon Islands	424712	416572	465331	482029	478116		0
Somalia	5836000	6653040	7119000	7653040			8844000
South Africa	87999492	82412880	88497610	92427958	96972459	95959439	100328005
South Sudan	2899000	2700000	2788933	3672871			0
Spain	51067770	51521507	52506928	54161014	55267594	55644651	56805348
Sri Lanka	23899642	25797199	28199083	30282984		29730465	30764135
St. Helena	1267	2499	4000				0
Sudan	27938507	27807293	28644139	30100412	33014160	35195207	16688773
Suriname	750458	806881	795871	752270	813844	899339	906170
Sweden	12638827	12543188	12519313	12647103	12678374	12959858	12843683
Switzerland	11243210	11242105	11088598	10788602	10927300	10900000	11060700
Syrian Arab Republic	14312271	13349860	15386000	17129676	19387604	16660253	16990714
Taiwan, Province of China	29681490	29244328	28777408	29340886	29291467	29351150	29674012
Tajikistan	8489000	9400000	9904000				0
Tanzania	39665600	40044186	39953860	43497261	47685232	51220233	54044384
Thailand	102942000	119669000	121530000	125098000	129614000	116294000	120850000
Timor-Leste	1376669	1492124	1556624	1468495	1425256	1377915	1386172
Togo	4855206	5505424	6069905	6144507	6239183	6516510	0
Tonga	73493	80000	107938	107938	62104		64328
Trinidad and Tobago	2123374	2165847	2030637	1972595	2163725	1987996	1996837
Tunisia	14595875	14282078	14334080	14769594	14771048	14852857	15644663
Turkey	73639261	75061699	77800170	80117999	80790877	82128104	86288834
Turkmenistan	7842000	8575000	9377000				0
Tuvalu	6600	7600	8000				0
Uganda	20220273	22838486	24948878	24472033		27688987	30127704
Ukraine	60720073	56717856	55714733	53933592	54842940	53977690	55925908
United Arab Emirates	17942560	19905093	19826224	20081015	19602815	18374332	18237084
United Kingdom	79250793	78931386	79098617	79472341		79007000	79773000
United States	382307000	396000000	400000000	422000000			361617000
Uruguay	5165474	5116736	5097569	5170624	4779787		4691277
Uzbekistan	21783300	23265389	24265460	23226156	33380000	33387000	35069000
Vanuatu	174818	218603	228016	251428	265219	246232	249868
Venezuela	29093517	27600893	24493687	20731169	16558617	18028388	16631275
Viet Nam	120324052	120600235	120016181	140639140	136230406	138934626	135349460
Yemen	15021953	16433055	15357868	15297789			0
Zambia	11557725	12017034	13438539	15470270	17220607	19104208	20247111
Zimbabwe	12757410	12878926	14092104	12908992	13195902	13191708	14257590

Source: ITU Data Base - ITU Website

Table 11.12 - Fixed Broadband Subscriptions

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Afghanistan	7067	8801	9182	15999	19683	26570	0
Albania	242870	266379	303612	361947	436192	508937	559394
Algeria	2269348	2859567	3210267	3067022	3582739	3790459	4177035
Andorra	30694	32490	34284	35663	36358		0
Angola	153571	84724	96919	109561	119047	230610	272698
Anguilla	5000						0
Antigua and Barbuda	10000	9261	9000				0
Argentina	6855837	7223128	7842778	8473655	8793181	9571562	10457904
Armenia	286319	299170	315319	347448	385704	430407	466621
Aruba	19000						0
Ascension		382					0
Australia	6828000	7374000	7923000	8427316	8705523	8937550	9082537
Austria	2455500	2523300	2511200	2521100	2513000	2606000	2592212
Azerbaijan	1899456	1803662	1805214	1890913	1943013	1995474	2055645
Bahamas	81018	85128	86868	81208	82295		0
Bahrain	253041	232385	213880	184603	205031	148595	162078
Bangladesh	4892940	6592396	7300500	8052889	8085500	9521970	10086021
Barbados	78269	86887	89340	89340	106803		102564
Belarus	2903497	3067529	3163286	3201519		3255552	3238881
Belgium	4121049	4270309	4378973	4502950	4590707	4734210	4920679
Belize	17379	18374	19006	24658	29600		0
Benin	73263	22298	28615	27034	25435	29981	20679
Bermuda	30000	22797	22808				0
Bhutan	27874	16489	16707	10802	8774	3139	2777
Bolivia (Plurinational State of)	180951	287589	379996	504097		931918	1127572
Bosnia and Herzegovina	634987	662468	700347	716366	745887	770624	797893
Botswana	36845	59057	32434	40044	45011	71898	203020
Brazil	25482478	26860779	28907867	31233004	32563453	36344670	41504683
British Virgin Islands	6660	6218	5003	4715		6738	0
Brunei Darussalam	34425	36120	41072	49452	54195	71078	79417
Bulgaria	1614541	1697590	1796682	1903946	1935544	2131606	2245831
Burkina Faso	9354	12384	12361	13818	12015	13979	16291
Burundi	2771	3245	3914	3935	3791	4230	3953
Cabo Verde	16568	15541	14993	15657	17732	24839	30532
Cambodia	83504	97641	133633	166200	184379		336243
Cameroon	20447	45974	16765		199912	713845	
Canada	13115376	13386496	13923805	14445606	14881958	15776602	16452598
Cayman Islands	27383	24535	31232				0
Central African Rep.	1858	736	619	608	499		0
Chad	11337	5126				0	0
Chile	2719439	2904580	3062392	3250678	3429305	3751227	4280463
China	277046000	322597000	394190000	407382000	449279000	483550000	535786000
Colombia	5525763	5912968	6331032	6678543	6949852	7764772	8434168
Comoros	1600	1634	1644	1531	1106	912	1196
Costa Rica	558656	639087	744041	834784	903735	992725	1058767
Croatia	986215	1043795	1095881	1128273	1154773	260097	1048489
Cuba	8157	14428	33536	98838	182732	1030973	297321
Curacao	40000	42713	49348	51836		231654	0
Cyprus	260640	278483	295686	313462	326565		340774
Czech Republic	2946626	3069970	3146091	3222835	3584800	332080	3939839
Côte d'Ivoire	109707	136380	142825	175918	216723	3802644	335041
Dem. Rep. of the Congo	1000	1000	1000	4620			0
Denmark	2404962	2461403	2511871	2535904	2536508	2571736	2605868
Djibouti	24165	24275	24389	25508		25053	14579
Dominica	15159	15487	15423	11514			0
Dominican Rep.	686107	767353	786458	794788	885879	1031858	1084919
Ecuador	1487592	1461416	1683783	1953607	2092458	2346923	2480572

Source: ITU Data Base - ITU Website

Table 11.12 - Fixed Broadband Subscriptions (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Egypt	3826410	4469164	5233872	6580370	7598941	9349469	10861195
El Salvador	353001	395307	451263	492265			613403
Equatorial Guinea	3799	3382	1897	1620			0
Eritrea	500	600	1000				0
Estonia	390275	414478	428453	441173	449140	415610	497504
Eswatini	6000	7000	8000				0
Ethiopia	478000	559000	62950				0
Falkland (Malvinas) Is.	2000	1610	1000				0
Faroe Islands	17792	17973	18041	18181		18443	0
Fiji	12734	12332	12135	13033			0
Finland	1729897	1712000	1710000	1737000	1797000	1846000	1864000
France	26867000	27680000	28480000	29100000	29760000	30627000	0
French Polynesia	51908	55443	57684	59790			59319
Gabon	11082	15018	14967	29099		44607	62985
Gambia	3573	3750	4000	4433			0
Georgia	635644	681038	780810	862141	941479	997785	986809
Germany	30707429	31861900	33243300	34174900	35071539	36040739	36880564
Ghana	73132	86596	56810	62320	57465	78371	114543
Gibraltar	15577	16404	17373	19232	18970		22062
Greece	3439034	3615029	3778268	3961864	4118113	4257026	4435090
Greenland	10000		12016	13192	14404		16781
Grenada	19757	20821	22235	26987	25577		0
Guatemala	459847	506000	531000				
Guinea	1000	1100	1127	1213	1250		0
Guinea-Bissau	1051	886	853	1204	1227	2383	3303
Guyana	53687	57203	64889				0
Haiti	1348	1348	29900	31100			0
Honduras	197379	220386	238291	354861	390377	396454	417259
Hong Kong, China	2347833	2626028	2658068	2714679	2787835	2871081	2918734
Hungary	2718794	2814523	2956585	3079549	3189689	3265308	3382136
Iceland	124436	128023	133574	136556	138267	141816	143124
India	16942750	18653312	17856024	18170000	19749488	22290000	27560000
Indonesia	3983000	5227393	6215923	8874116	9411805	10713107	12419416
Iran (Islamic Republic of)	6608662	7608560	8599949	9806123	8626182	9564195	10674899
Iraq			4291911	4492328		5453799	6588435
Ireland	1309467	1360204	1398798	1430160	1462549	1516252	1576973
Israel	2173000	2258000	2342000	2435000	2481000	2602079	2656753
Italy	14900171	15563279	16586376	17060505	17376499	17855620	18686502
Jamaica	228890	286068	239120	284756	317907	385603	413500
Japan	38872579	39805586	40532466	41496293		43633244	44965598.07
Jordan	309726	297324	331925	399596	469978	625657	719025
Kazakhstan	2301000	2349900	2576100	2462900	2451400	2616500	2762700
Kenya	135107	132702	288303	371498	491183	674191	788996
Kiribati	117	66	76	84	68	185	349
Korea (Rep. of)	20024419	20555683	21195918	21285858	21906172	22330182	22944268
Kuwait	55000	101390	117719	103821	84595	73948	70468
Kyrgyzstan	211521	240873	258013	250612	269091		0
Lao P.D.R.	12316	24426	27217	45379	76280		150755
Latvia	503503	519154	526222	525995	508894	503804	489818
Lebanon					420000	432070	0
Lesotho	2062	2230	4821	5763		5060	14894
Liberia	7000	8000	9000				0
Libya	61000	168920	318000				0
Liechtenstein	15696	15935	16253	16712	17251	18063	18526
Lithuania	833298	857761	798769	788743	791826	796814	802373
Luxembourg	195300	203100	214600	224300	230100	235155	0
Macao, China	169939	177959	186000	193057			0

Source: ITU Data Base - ITU Website

Table 11.12 - Fixed Broadband Subscriptions (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Madagascar	23694	26385	25062	27211			30933
Malawi	5855	8692	10816	11358	11358	12255	13480
Malaysia	3063800	2718800	2687800	2696000	2964500	3358800	3734100
Maldives	23175	29309	36534	47065	52798	63685	76518
Mali	3499	21444	15400	120934		243806	145154
Malta	163205	171263	181318	191833	199241	213419	221198
Marshall Islands	1000	1000	1000				0
Mauritania	9638	11141	12637	13222	10815	19246	19219
Mauritius	197400	212600	246000	274200		322100	328900
Mexico	14757686	15923971	17000482	18359028	19173373	21206911	23315640
Micronesia	3277	3169	3776				0
Moldova	534393	557403	584330	623135	670530	719001	762333
Monaco	18354	18614	19258	19822	20476	20877	21158
Mongolia	208047	226147	285093	306150	317317	307166	379727
Montenegro	112394	114848	137426	159029	178781	184176	188286
Morocco	1147533	1255428	1378867	1552599	1751341	2102434	0
Mozambique	42570	46599	61641	70142			65495
Myanmar	32921	89686	111567	129050			893039
Namibia	70408	64343	65779	61968	63314	71063	77249
Nepal (Republic of)	302705	224184	503206	791961			0
Netherlands	7029097	7222770	7289580	7406700	7459000	7525016	7615000
New Caledonia	55371						0
New Zealand	1450900	1530500	1583000	1647000			1801118
Nicaragua	116308	177024	210124	192413	216618	290351	299930
Niger	27188	7707	8650				0
Nigeria	15688	107931	110834	73965		65313	65917
North Macedonia	364421	381531	396295	427964	444356	462476	490084
Norway	2050460	2106975	2165221	2206519		2387661	0
Oman	233234	284647	348926	422035	473070	508949	524518
Pakistan	1793199	1642805	1829673	1811365	1760870	2423057	2944985
Palau	1224						0
Palestine	274500	320684	359872	364086		373050	405014
Panama	316168	429931	441163	540220	574463	562413	572908
Papua New Guinea	15000	17000	18000				0
Paraguay	215135	246660	290264	320700			702255
Peru	1999459	2120762	2310217	2536077			3063286
Philippines	2900000	2985452	3399291	3919713	4178822		9658020
Poland	7265546	7327918	7630957	7851422	7797605	8212601	8811319
Portugal	3142188	3375597	3574638	3784684	3967687	4160895	4313534
Puerto Rico	704411	686851	660077	609027	609943	671284	
Qatar	237774	253718	256560	267906	284679	296126	311888
Romania	4262132	4449500	4753400	5087000	5277600		6099000
Russian Federation	26881463	27522702	31103235	32062780	33028695	5685000	34622836
Rwanda	21125	21721	21780	7501	8885	33872758	31902
Réunion						17685	0
Saint Kitts and Nevis	16376	14178	29272	29272			0
Saint Lucia	28426	29786	31828	32265			0
Saint Vincent and the Grenadines	16960	21865	19273	24613	21585	24494	27872
Samoa	2084	2169	1692				0
San Marino	11641	12000	10500	10858	11081		12000
Sao Tome and Principe	1314	1425	1479	1557	1642	2512	3423
Saudi Arabia	6335557	6397541	6653291	6821873	6801949	7890261	10588164
Senegal	100611	98353	111795	129820	152047	177363	208314
Serbia	1320230	1450958	1480754	1552160	1622813	1724392	1799834
Seychelles	13420	14035	15221	19696	26979	34966	41280
Singapore	1486200	1591900	1475700	1493600	1498100	1517600	1516100
Slovakia	1273812	1336541	1404751	1507998	1585092	1701561	1774670

Source: ITU Data Base - ITU Website

Table 11.12 - Fixed Broadband Subscriptions (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Slovenia	569026	589324	601820	612745	627936	651604	671642
Solomon Islands	1420	1639	1166	1488	1045		0
Somalia	82000	92000	98000				119000
South Africa	1409347	1150770	1123189	1107013	1250356	1303057	1694648
South Sudan	150	150	200	200			0
Spain	13542906	14112657	14668212	15176954	15590305	15850358	16392286
Sri Lanka	625917	892184	1220504	1544313		1992429	2586040
St. Helena	1337	1347	1000				0
Sudan	28093	26376	30549	31352		28782	30426
Suriname	52691	71217	71217	73176	80320	92270	123016
Sweden	3496240	3679768	3866353	3973622	3994475	4101078	4175604
Switzerland	3700563	3775916	3916720	3883878	3884000	4023000	4007000
Syrian Arab Republic	729261	1009614	1423070	1328688	1490344	1548100	1576443
Taiwan, Province of China	5656330	5686003	5713568	5725022	5831467	5952411	6342842
Tajikistan	6000	6000	6000				0
Tanzania	106000	318474	763466	861234	1032667	1084698	1243047
Thailand	6229000	7219000	8208000	9189000	10108819	11599513	13129216
Timor-Leste	1028	662	656	603	600	75	107
Togo	66072	48763	50550	26156	31899	52706	0
Tonga	2458	3000	3000	2519	3703		6812
Trinidad and Tobago	278522	255579	326776	342200	344735	375990	364062
Tunisia	573977	640267	801785	1014395	1193359	1334551	1496611
Turkey	9504594	10499692	11924905	13407226	14231978	16734853	18135736
Turkmenistan	3000	4000	5000				0
Tuvalu	450	450	450				0
Uganda	80724	92115				34596	38481
Ukraine	4978813	5125499	5239743	5405125	6784185	7769401	7566286
United Arab Emirates	1234447	1297585	2761830	3024565	3045957	3245123	3573055
United Kingdom	24686486	25445619	26043431	26586110		27490258	27738000
United States	102212000	105714000	108199000	110865000	114093000	120531000	127032000
Uruguay	900933	921677	953281	977390	1012410		1105458
Uzbekistan	1787786	2746360	3320210	4123508	4597265	4820009	6802985
Vanuatu	4297	4386				2785	3157
Venezuela	2589713	2613991	2607829	2604578	2561210	2407187	2565909
Viet Nam	7657619	9098288	11269936	12994451	14802380	16699249	19328191
Virgin Islands (US)	9000						0
Wallis and Futuna	1000						0
Yemen	395000	276219	369004	386330			0
Zambia	23390	31784	35912	72228	88891	82317	80592
Zimbabwe	163987	170838	187310	203056	204424	203461	205333

Source: ITU Data Base - ITU Website

Table 11.13 - Active Mobile-broadband Subscriptions

ountry	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Afghanistan	1910178	4669379	5700205	6997208	7309797	7422550	0
Albania	1297281	1686354	2030978	1809996	1789158	1998579	2056444
Algeria	16319028	26679543	32392293	34480819	41325252	39740708	43108730
Andorra	34094	39001	42823	46544			0
Angola	4015303	4025307	4354043	5820154	6740418	6637340	7325997
Antigua and Barbuda	31000	41000	48000				0
Argentina	33051635		35436000				
Armenia	1204602	1611919	1957546	2239467	2445149	2475449	2674304
Australia	30260000	31544000	32980000	32268000	35900000	32248000	31668000
Austria	6031800	7585400	7698000	7820000	8093000	9638000	10583314
Azerbaijan	5856215	5466928	5579977	5929185	6235174	7339900	7100230
Bahamas	182685	200696	260587	314419	362303		0
Bahrain	1791892	2238233	2179162	1977618	1955121	1861010	1978421
Bangladesh	25189038	44110894	50581107	66607954	86066000	87314834	99261131
Barbados	157713	129094	129851	171803	121218		189514
Belarus	5725126	6402258	7217531	8161012		8653920	9054903
Belgium	6940277	7480397	8588776	8701058	10037211	10337943	10822349
Belize	42169	185404	142855	164730	171349		0
Benin	461027	881479	1346120	2273553	2532296	3299908	4336058
Bermuda		4218	6992				0
Bhutan	362969	545788	705654	766768	762332	688935	670362
Bolivia (Plurinational State of)	3731487	6159837	8453103	9067332		9820483	10471194
Bosnia and Herzegovina	1278989	1424634	1520424	1840808	1951830		1817489
Botswana	1389522	1409274	1532954	1749059	2045230	2193585	2431822
Brazil	180485766	183705670	188855115	184570501	196547148	190738810	205538574
British Virgin Islands	34951		30804	36648			0
Brunei Darussalam	406613	505723	533191	557685	553891	525827	609284
Bulgaria	5782280	6232065	6487761	7122841	7392515	7391434	7604776
Burkina Faso	2738610	3661618	5531409	5907800	6441178	10903709	13460748
Burundi	817716	908849	1366625	1279019	1284907	1303694	1033517
Cabo Verde	353619	359056	381875	363419	420913	419751	448720
Cambodia	6710524	8000834	10703056	13458050	15898958		17535930
Cameroon	1000000	2462468	4263000	3537908	4867210	4107058	9544731
Canada	22033684	24972000	26433000	28323000	30675000	31755000	31388021
Central African Rep.	123769	160793	221001	248260	238650		0
Chad	187206		524758	612175	475818	480262	0
Chile	10057395	12914417	15932876	17151624	18508001	19336968	21599076
China	777992000	973558000	1177694000	1334229000	1431340000	1386405000	1493900400
Colombia	20292707	22804101	23943998	25982322	29533312	31455015	36767041
Comoros	0	0	468998	498988	121787	279768	345000
Congo (Rep. of the)			309000				922192
Cook Islands			13000				0
Costa Rica	4861898	4336034	4788964	5043509	4664073	4641694	4501028
Croatia	3111023	3253295	3337065	3302355	3390776	19651407	4448328
Cuba	0	0	0	1618435	2916253	4338193	3729689
Curacao	75000	90000	89426	81291		2795707	0
Cyprus	638314	821694	904573	960997	1025827		1233001
Czech Republic	7759255	8530141	8705487	9383700	10070000	1049808	10687712
Côte d'Ivoire	8602170	10360734	13095386	15442012	17021159	10108918	21806047
Dem. People's Rep. of Korea	3240000	3606000	3810000				0
Dem. Rep. of the Congo	6036970	10379977	13198592	13360051	16950021	20878176	0
Denmark	6659512	7008283	7424043	8052804	7966795	7924354	8096226
Djibouti	50000	103574	186526	197519		241208	283816
Dominica	30670	29937	52152	67262			0
Dominican Rep.	4219142	5300015	5922318	6463596	7216243	7688393	7415907
Ecuador	5693268	7690046	8807079	9342814	9335830	9844859	10082448
Egypt	42913302	45244164	48885371	53068763	59572831	66272877	84164797

Source: ITU Data Base - ITU Website

Table 11.13 - Active Mobile-broadband Subscriptions (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
El Salvador	1281428	2290773	3564505	3501385			4864955
Equatorial Guinea	306		426	1846			0
Estonia	1445845	1596030	1746443	1940928	2211088	2189585	2013947
Eswatini	160000	169150	179000				0
Ethiopia	3630000	5353000	14788000				0
Faroe Islands		42466	45009	48112		56497	0
Fiji	430000	488000	1173317	1303273			0
Finland	7862900	7870000	8440000	8530000	8570000	8630000	8700000
France	48512000	52863000	56248000	59546000	62942000	64793000	0
French Polynesia	73895	135929	158957	182351			262104
Gabon	636492	1650289	1702144	1945827		2071537	2255282
Gambia	265052	432138	568000	838210			0
Georgia	2172352	2480634	2608041	2949482	3191375	3255012	3276651
Germany	58471000	63094865	65509168	68629783	72258346	75983701	78728000
Ghana	18031188	19746554	23551789	27312733	30006622	26512155	23465185
Gibraltar	10000	10000	33511	30066	32248		34149
Greece	5078741	5947815	7074933	8563326	9463376	9231228	9236242
Greenland			2438	1911	1670		1753
Grenada	30690	35250	36500	64690			0
Guatemala	1637845	2309361	2783000				
Guinea	1719446			2958529	2958529		0
Guinea-Bissau	0	126172	157608	332162	705160	781540	1090953
Guyana	1820	1850	204539				0
Haiti	17000	1105681.7	3098128	3335050			0
Honduras	1451692	1934419	2267184	3079981	2736106	5024741	4887509
Hong Kong, China	7840561	7706215	9368621	11456564	10478358	10528333	12011334
Hungary	4969565	5556505	6143518	6582271	6962473	7126527	7432005
Iceland	314604	353903	388391	419600	436085	419231	442405
India	120030000	217355871	345013593	507190000	674655936	725120000	765991924
Indonesia	107518000	88551173	253488807	233269909	219762853	243631301	299304357
Iran (Islamic Republic of)	15913352	27170619	55341362	55794043	66533736	77706885	91844281
Iraq	1271100	6040620	12569022	15309376		17649651	20678849
Ireland	4492682	4764610	4855407	4999569	5141816	5126403	5417162
Israel	6700000	7500000	8750000	9500000	9800000	10000000	11000000
Italy	50221401	50620475	52208461	54495633	57308868	56888651	57359100
Jamaica	1505356	1589325	1412217	1502313	1630742	1741980	1738184
Japan	162760922	167510000	230678859	245858569		261081589	278598654
Jordan	6382679	6871087	8333881	8731760	7778770	6987891	7275563
Kazakhstan	12250900	13351900	13942600	14211000	14777000	15709000	16657000
Kenya	7112991	12546559	16926599	21543425	21595570	25144693	28360642
Kiribati			12572	14022	19172	51989	52487
Korea (Rep. of)	54562182	55713362	57490488	58139684	58858580	59932283	60721156
Kuwait	5175373	5764330	5264653	5422240	5544628	5442588	5807600
Kyrgyzstan	1768305	2672010	4454071	5927693	7887101		0
Lao P.D.R.	994165	2476768	2741535	2966380	3483779		4188419
Latvia	1362000	1504256	2264044	2511441	2532818	2664819	2665494
Lebanon	2916231	3182662	3118872	3103589	2934872	4348512	0
Lesotho	831194	791245	1084344	1243466		1385469	1554363
Liberia	236000	463441	550000				0
Libya	2006000	2229259	2353000				0
Liechtenstein	41273	45004	47712	49269	50350	49000	48000
Lithuania	2028690	2294811	2307095	2760705	3011702	3190165	3412559
Luxembourg	477000	482000	514000	568000		737430	0
Macao, China	1896020	1969972	2047000	2181194			0
Madagascar	2365321	2021552	3317073	4097391			5159274
Malawi	2801024	3294000	4746592	4936394	5932491	6822634	7815010
Malaysia	27759100	28532500	35256600	36794500	40430900	38837200	42016100

Source: ITU Data Base - ITU Website

Table 11.13 - Active Mobile-broadband Subscriptions (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
Maldives	227820	264937	276873	287281	268843	252009	241843
Mali	3063186	4093548	5676760	5776730		9487870	8768933
Malta	270097	326102	367427	373773	409995	423712	414674
Mauritania	975263	1451155	1350318	2331309	2513141	2894327	3265608
Mauritius	464200	650800	745900	827300		1245600	1411700
Mexico	63919616	75073020	81103052	88290836	93211904	99579706	104536335
Moldova	1785149	1837689	2058713	2168174	2381083	2371108	2688907
Monaco	25695	28893	32840	32550	33652	35100	35900
Mongolia	2222112	2430289	2484543	2654190	3164673	3579771	3889239
Montenegro	361450	377007	418322	459327	505535	539547	561944
Morocco	13337087	15816896	20828576	21288359	23677204	27743105	31690000
Mozambique	12188653	9447275	7621913	4444013			6204431
Myanmar	18155742	29772375	47997232	49781606			58937190
Namibia	856963	1611385	1412979	1796656	2248139	1764971	1922447
Nauru	2600	3700	4000				0
Nepal (Republic of)	7500000	8850000	15348992	13350448			0
Netherlands	13747048	15017000	15464000			21466000	
New Caledonia	29284						0
New Zealand	5250000	4700000	4781000	5429000			4896000
Nicaragua	451740	1443171	1888976	1207096	1176205	3357306	3778958
Niger	354000	409533	849630				0
Nigeria	38448990	43278438	37915495	60087199		85941222	78041883
North Macedonia	1129185	1189188	1266280	1348134	1455276	1348663	1416911
Norway	4909850	5012436	5188704	5294119		5622248	0
Oman	3550166	4047014	4351583	4113348	5038782	5385553	5097547
Pakistan	24522297	38452981	48678779	62025795	76245320	90504754	107681219
Palestine	0	0		791100		962711	1039255
Panama	2801591	2387372	2866652	3305834	3771748	3435993	3411393
Papua New Guinea	463000	718580	917000				0
Paraguay	3035655	3320667	3637144	4011225			4672038
Peru	17145843	19575206	20646962				27173019
Philippines	42330000	56606000	71983153		72646218		
Poland	21931417	46857624	58829353	65110691	70387639	74719813	75611153
Portugal	5521656	6477160	7114834	7573471	8085113	8050695	8995448
Puerto Rico	1792240	2184408	2711183		2556360	2805838	
Qatar	2832946	3595650	3358270	3503189	3535025	3466269	3871773
Romania	13739000	15860000	16600000	17140000	17360000		18500000
Russian Federation	101179679	106099085	119147289	127200239	142063872	17700000	157068568
Rwanda	3216121	3446692	4274513	4799139	5341692	146495379	6332642
Réunion						5548624	0
Saint Kitts and Nevis	39430	43120	36390	27041			0
Saint Lucia	62190	68961	80708	77322			0
Saint Vincent and the Grenadines	42669	54072	86659	59455	64315	63582	68634
Samoa	18613	43917	51096				0
San Marino	34624	36570	44000	44000	44500		45000
Sao Tome and Principe	35799	50884	69995	70788	73858	78377	88892
Saudi Arabia	33387589	23884592	29653287	37440539	40052293	41379642	42974656
Senegal	3953818	4013800	4267481	6678431	8840070	11168812	15878824
Serbia	5084699	5084699	5356416	5811317	6251916	6480828	7000933
Seychelles	17945	21330	71962	78178	89896	84034	94476
Sierra Leone	961740	1507024.8	1934000	948000	1152089	1585904	1787077
Singapore	8048000	8346000	8381900	8568400	9076700	8427500	8660700
Slovakia	3685683	4300524	4501833	4688623	5805979	4823443	4833958
Slovenia	995520	1284079	1456526	1613879	1747536	1825472	1923964
Solomon Islands	66664	77100	114023	114249	128961		0
Somalia	180000	280000	358000				445000
South Africa	31809467	34065846	39684041	44780744	49494803	65627644	68702148

Source: ITU Data Base - ITU Website

Table 11.13 - Active Mobile-broadband Subscriptions (Contd.)

Country	2015_value	2016_value	2017_value	2018_value	2019_value	2020_value	2021_value
South Sudan	143911	140174	476501	658147			0
Spain	39030914	41504722	43624037	45983207	48106957	49227728	51285825
Sri Lanka	3408408	8785961	11047013	13806934		15360723	17039619
Sudan	11649027	10205026	12363261	13557437	16241123	18565661	18565661
Suriname	365000	264044	264044	242449	530191	526477	784933
Sweden	11835202	12140358	12142622	12660775	12671093	13069229	13170200
Switzerland	8400000	8448072	8376627	8471621	8510000	8784900	8870000
Syrian Arab Republic	2346737	2366874	2288283	2796552	1963365	1661496	3714646
Taiwan, Province of China	18698357	21318990	23602830	26326337	27283602	27613956	27893079
Tajikistan	1040000	1598000	2027000				0
Tanzania	4700000	4965631	4965631	5124797	5679667	8546887	11627929
Thailand	59688000	63977000	55179000	58054000	60348000	63060000	65976000
Timor-Leste	440000	770780	435793	400850	400850	400850	400850
Togo	431661	1437425	2015858	2524282	3322213	2591711	0
Tonga	53220	60000	64000	67225	62104		64328
Trinidad and Tobago	443707	637799	630617	565412	559195	608301	643421
Tunisia	6951493	7147378	7498523	8799186	9097464	8987950	9832063
Turkey	39067554	51736914	56944673	61092863	62407717	65629737	70029003
Turkmenistan	600000	771000	881000				0
Uganda	7349540	8180501	10028847	14360847		21443053	23914358
Ukraine	3413000	9652657	17386033	19907552		35596384	33184499
United Arab Emirates	12536797	15284951	22882825	24081304	23438582	22178585	22586425
United Kingdom	55870842	54782461	58226029	66160380		73406000	76230000
United States	375504000	409173000	431448000	473663000			558670000
Uruguay	2665467	3508777	3361182	3415763	3378997		3737691
Uzbekistan	13069980	16814345	18959330	20251746	21931042	21950541	34000690
Vanuatu	50000	60000	125497	190449		1058291	909883
Venezuela	13449992	15950302	15717011	15751915	14701905	13920834	12490769
Viet Nam	35782223	43919045	44854554	68692261	69894517	78099310	85621091
Yemen	1494000	1578240	1667000				0
Zambia	2140195	5156365	7723855	9825716	9121916	10219976	10357442
Zimbabwe	5872091	6722677	6824307	7460186	7569875	8695188	9331088

Source: ITU Data Base - ITU Website

Table 11.14 - Indicator Definition

Indicator Name	Indicator Description	Indicator Definition
i112	**Fixed-telephone subscriptions**	Fixed-telephone subscriptions refers to the sum of active number of analogue fixed-telephone lines; voice-over-IP (VoIP) subscriptions; fixed wireless local loop (WLL) subscriptions; ISDN voice-channel equivalents and fixed public payphones.; This indicator was previously called Main telephone lines in operation.;
i271	**Mobile-cellular telephone subscriptions; by postpaid/prepaid**	Mobile-cellular telephone subscriptions refers to the number of subscriptions to a public mobile-telephone service that provide access to the PSTN using cellular technology. The indicator includes (and is split into) the number of postpaid subscriptions; and the number of active prepaid accounts (i.e. that have been used during the last three months). The indicator applies to all mobile-cellular subscriptions that offer voice communications. It excludes subscriptions via data cards or USB modems; subscriptions to public mobile data services; private trunked mobile radio; telepoint; radio paging and telemetry services.
i4213tfbb	**Fixed-broadband subscriptions**	Fixed-broadband subscriptions refers to fixed subscriptions to high-speed access to the public Internet (a TCP/IP connection); at downstream speeds equal to; or greater than; 256 kbit/s. This includes cable modem; DSL; fibre-to-the-home/building; other fixed (wired)-broadband subscriptions; satellite broadband and terrestrial fixed wireless broadband. This total is measured irrespective of the method of payment. It excludes subscriptions that have access to data communications (including the Internet) via mobile-cellular networks. It should include fixed WiMAX and any other fixed wireless technologies. It includes both residential subscriptions and subscriptions for organizations.
i271mw	**Active mobile-broadband subscriptions**	Active mobile-broadband subscriptions refers to the sum of standard mobile-broadband and dedicated mobile-broadband subscriptions to the public Internet. It covers actual subscribers; not potential subscribers; even though the latter may have broadband enabled-handsets.

Source: ITU Data Base

12 - Update

Table 12.1 - Summary of the telecom sector's performance

Parameter	April'22	May'22	June'22	July'22	August'22
Total Phones (in million)	**1167.72**	**1170.62**	**1172.81**	**1173.51**	**1174.94**
Wireline (in million)	25.14	25.21	25.52	25.57	25.92
Wireless (in million)	1142.57	1145.40	1147.29	1147.93	1149.02
Rural (in million)	520.37	522.52	523.45	522.98	523.75
Urban(in million)	*647.35*	*648.10*	*649.36*	*650.53*	*651.19*
Public (in million)	126.63	125.86	124.48	123.13	122.54
Private(in million)	*1041.09*	*1044.76*	*1048.33*	*1050.38*	*1052.40*
Wireline %age to Total Phones	*2.15*	*2.15*	*2.18*	*2.18*	*2.21*
Wireless %age to Total Phones	*97.85*	*97.85*	*97.82*	*97.82*	*97.79*
Rural %age to Total Phones	*44.56*	*44.64*	*44.63*	*44.57*	*44.58*
Urban %age to Total Phones	*55.44*	*55.36*	*55.37*	*55.43*	*55.42*
Public %age to Total Phones	*10.84*	*10.75*	*10.61*	*10.49*	*10.43*
Private %age to Total Phones	*89.16*	*89.25*	*89.39*	*89.51*	*89.57*
Overall Teledensity (%age)	**84.87**	**85.02**	**85.12**	**85.10**	**85.14**
Wireline Teledensity (%age)	1.83	1.83	1.85	1.85	1.88
Wireless Teledensity (%age)	83.05	83.19	83.26	83.25	83.26
Rural Teledensity (%age)	58.04	58.26	58.35	58.27	58.34
Urban Teledensity (%age)	135.05	135.01	135.06	135.10	135.04
Public (%age)	9.20	9.14	9.03	8.93	8.88
Private (%age)	75.67	75.88	76.08	76.17	76.26
Broadband (in million)	**788.77**	**794.68**	**800.94**	**807.42**	**-**

Table 12.2 - Summary of the telecom service area-wise performance during 2022-23

Service Area	April'22	May'22	June'22	July'22	August'22
ANDHRA PRADESH	84928485	85194515	85284070	85247871	85450156
ASSAM	24402379	24384088	24345150	24549036	24618803
BIHAR	87386356	88361000	89424506	90169293	90965073
GUJARAT	68388078	68482406	68466519	68343531	68241290
HARYANA	27622549	27000837	27481898	27178024	27055493
HIMACHAL PRADESH	10258492	10052269	9909198	9934619	9922101
JAMMU & KASHMIR	12400282	12557464	12047890	12210043	12310525
KARNATAKA	67623231	67858187	67990920	68206260	68293283
KERALA	44521067	44341535	44195436	44143812	44086979
MADHYA PRADESH	77652536	78165843	78383422	78613970	78736464
MAHARASHTRA	92905744	93194400	93749838	93773024	93633074
NORTH-EAST	12198828	12244651	12149934	12217748	12275536
ORISSA	32907858	33160028	33150607	33264492	33364737
PUNJAB	37271284	37338979	37360848	37389964	37371198
RAJASTHAN	63576311	63775023	63865245	64036373	64198342
TAMIL NADU	81235126	81329103	81294655	80638880	80500368
UTTAR PRADESH - [East]	101561010	102148705	102330074	102193164	102278483
UTTAR PRADESH - [West]	64705452	65081739	65116770	65282027	65240168
WEST BENGAL	57238771	57109827	57355817	57619225	57759255
KOLKATA	24772426	24574569	24587799	24801185	24744795
DELHI	56588751	56681951	56955014	56594685	56819665
MUMBAI	37571075	37580852	37365295	37098112	37072874
TOTAL	1167716091	1170617971	1172810905	1173505338	1174938662

Table 12.3 - Broadband Subscribers in India* (In million)

At the end of	Wired	Wireless	Total Subscribers
April'22	27.83	760.94	**788.77**
May'22	28.10	766.58	**794.68**
June'22	28.71	772.23	**800.94**
July'22	29.47	777.95	**807.42**
* TRAI			

Annexure – I

TERRITORIAL JURISDICTION OF LICENSED SERVICE AREA (LSAs) (TELECOM CIRCLES/ METROS)

Sl. No.	LSA	Areas covered
1	West Bengal	Entire area falling within the Union Territory of Andaman & Nicobar Islands and area falling within the State of West Bengal and the State of Sikkim excluding the areas covered by Kolkata Metro LSA
2	Andhra Pradesh	Entire area falling within the State of Andhra Pradesh and Telangana.
3	Assam	Entire area falling within the State of Assam.
4	Bihar	Entire area falling within the State of Bihar and State of Jharkhand.
5	Gujarat	Entire area falling within the State of Gujarat and Union Territory of Daman and Diu, Silvassa (Dadra & Nagar Haveli).
6	Haryana	Entire area falling within the State of Haryana except Panchkula town and the local areas served by Faridabad and Gurgaon Telephone exchanges.
7	Himachal Pradesh	Entire area falling within the State of Himachal Pradesh
8	Jammu & Kashmir	Entire area falling within the Union Territory of Jammu & Kashmir and Union Territory of Ladakh.
9	Karnataka	Entire area falling within the State of Karnataka.
10	Kerala	Entire area falling within the State of Kerala and Union Territory of Lakshadeep and Minicoy.
11	Madhya Pradesh	Entire area falling within the State of Madhya Pradesh and the State of Chattisgarh.
12	Maharashtra	Entire area falling within the State of Maharashtra and Goa, excluding areas covered by Mumbai Metro LSA.
13	North East	Entire area falling within the States of Arunachal Pradesh, Meghalaya, Mizoram, Nagaland, Manipur and Tripura.
14	Odisha	Entire area falling within the State of Odisha.
15	Punjab	Entire area falling within the State of Punjab and Union territory of Chandigarh and Panchkula town of Haryana.
16	Rajasthan	Entire area falling within the State of Rajasthan.
17	Tamilnadu	Entire area falling within the State of Tamilnadu and Union Territory of Puducherry
18	Uttar Pradesh (West)	Entire area covered by Western Uttar Pradesh with the following as its boundary districts towards Eastern Uttar Pradesh: Pilibhit, Bareilly, Badaun, Kasganj (Kanshiram Nagar), Etah, Mainpuri, Etawah and Auraiya. It will exclude the local telephone area of Ghaziabad and Noida. However, it includes the State of Uttarakhand.
19	Uttar Pradesh (East)	Entire area covered by Eastern Uttar Pradesh with the following as its boundary districts towards Western Uttar Pradesh: Shahjahanpur, Kannauj, Farrukhabad, Lakhimpur, Kanpur Rural and Jalaun (Orai).
20	Delhi	Local Areas served by Delhi, Ghaziabad, Faridabad, Noida, and Gurgaon Telephone Exchanges.
21	Kolkata	Local Areas served by Kolkata Telephones of BSNL.
22	Mumbai	Local Areas served by Mumbai, New Mumbai and Kalyan Telephone Exchanges

NOTE:

1. Yanam, an area of Union Territory of Puducherry is served under Andhra Pradesh LSA in East Godavari LDCA.
2. The definition of Local Areas of exchanges will be as applicable to the existing cellular operators, i.e. at the time of grant of cellular Licenses in Metro Cities in 1994-95.
3. The definition of local areas with regard to the above LSA as applicable to this license is as per definition applicable to Cellular Mobile Service Licenses as in the year 1994 and 1995, when those Licenses were granted to them. This is in accordance with respective Gazette Notification for such local areas wherever issued and as per the statutory definition under Rule 2 (w) Indian Telegraph Rules, 1951, as it stood during the year 1994/1995 where no specific Gazette Notification has been issued.
4. Erstwhile Chennai LSA and Tamilnadu (excluding Chennai) LSA as defined in UAS License, have been merged to make a single LSA namely Tamilnadu LSA. For Unified License, there will be Tamilnadu LSA as defined at Sl. No. 17 in the above List of LSAs.

Annexure - II

Service Areas of Categories

Category-A	Category-B	Category-C	Category-Metro
Andhra Pradesh	Haryana	Assam	Kolkata
Gujarat	Kerala	Bihar	Delhi
Karnataka	Madhya Pradesh	Himachal Pradesh	Mumbai
Maharashtra	Punjab	Jammu & Kashmir	
Tamil Nadu(incl. Chennai)	Rajasthan	North-East (NE)	
	UP(E)	Odisha	
	UP(W)		
	West Bengal		

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