

**Annexure 3.1(a): Extent and condition accounts of Forests in India**

States/UTs	Geographical Area (GA)			Type of Protection			Growing Stock		Wetlands Within RFA			
	Recorded Forest Area (RFA)		% of GA	Reserved Forests (RF)	Protected Forest (PF)	Unclassified Forests	Volume of Growing Stock		Density of growing stock cum/ha	Number	Area (in ha)	% of RFA
	sq km	sq km		sq km	million cum	% share						
Andhra Pradesh	1,62,968	37,258	22.86	31,959	5,069	230	119.02	2.79	31.94	1,174	72,358	1.91
Arunachal Pradesh	83,743	51,407	61.39	10,589	9,779	31,039	458.00	10.72	89.09	1,343	68,022	1.07
Assam	78,438	26,832	34.21	17,864	0	8,968	115.40	2.70	43.01	1,584	67,857	2.46
Bihar	94,163	6,877	7.30	693	6,183	1	26.73	0.63	38.87	285	3,992	0.63
Chhattisgarh	1,35,192	59,772	44.21	25,782	24,036	9,954	358.96	8.40	60.05	3,698	64,398	1.22
Delhi	1,483	102	6.88	78	24	0	0.54	0.01	52.94	17	18	0.18
Goa	3,702	1,225	33.09	253	0	972	11.16	0.26	91.10	71	1,025	0.78
Gujarat	1,96,244	21,647	11.03	14,373	2,886	4,388	48.31	1.13	22.32	3,529	12,10,675	39.88
Haryana	44,212	1,559	3.53	249	1,158	152	4.22	0.10	27.07	78	1,885	3.33
Himachal Pradesh	55,673	37,033	66.52	1,898	33,130	2,005	347.07	8.12	93.72	113	8,221	0.59
Jammu & Kashmir	2,22,236	20,230	9.10	17,643	2,551	36	291.63	6.82	144.16	481	36,262	1.31
Jharkhand	79,716	23,605	29.61	4,387	19,185	33	96.22	2.25	40.76	1,662	16,528	0.87
Karnataka	1,91,791	38,284	19.96	28,690	3,931	5,663	334.08	7.82	87.26	2,038	53,119	1.71
Kerala	38,852	11,309	29.11	11,309	0	0	147.10	3.44	130.07	359	23,157	2.03
Madhya Pradesh	3,08,252	94,689	30.72	61,886	31,098	1,705	342.62	8.02	36.18	8,540	1,62,573	1.83
Maharashtra	3,07,713	61,579	20.01	49,546	6,733	5,300	231.76	5.42	37.64	8,821	1,16,837	2.07
Manipur	22,327	17,418	78.01	1,467	4,171	11,780	42.03	0.98	24.13	206	12,424	0.71
Meghalaya	22,429	9,496	42.34	1,113	12	8,371	31.28	0.73	32.94	244	21,470	1.22
Mizoram	21,081	5,641	26.76	4,483	0	1,158	21.30	0.50	37.76	206	12,456	0.60
Nagaland	16,579	8,623	52.01	234	0	8,389	29.52	0.69	34.23	197	11,522	1.08
Odisha	1,55,707	61,204	39.31	36,049	25,133	22	299.04	7.00	48.86	4,127	64,627	1.52

States/UTs	Geographical Area (GA)			Recorded Forest Area (RFA)			Type of Protection			Growing Stock		Wetlands Within RFA		
				Reserved Forests (RF)	Protected Forest (PF)	Unclassified Forests	Volume of Growing Stock		Density of growing stock cum/ha	Number	Area (in ha)	% of RFA		
	sq km	sq km	% of GA	sq km	sq km	sq km	million cum	% share						
Punjab	50,362	3,084	6.12	44	1,137	1,903	11.12	0.26	36.06	119	3,068	3.32		
Rajasthan	3,42,239	32,737	9.57	12,475	18,217	2,045	24.39	0.57	7.45	3,826	56,341	1.70		
Sikkim	7,096	5,841	82.31	5,452	389	0	35.32	0.83	60.47	74	2,609	0.95		
Tamil Nadu	1,30,060	22,877	17.59	20,293	1,782	802	96.97	2.27	42.39	1,523	45,219	2.09		
Telangana	1,12,077	26,904	24.00	20,353	5,939	612	80.96	1.89	30.09	1,070	28,239	1.05		
Tripura	10,486	6,294	60.02	4,175	2	2,117	19.74	0.46	31.36	710	3,879	0.66		
Uttar Pradesh	2,40,928	16,582	6.88	12,071	1,157	3,354	96.04	2.25	57.92	2,351	42,224	3.14		
Uttarakhand	53,483	38,000	71.05	26,547	9,885	1,568	406.08	9.50	106.86	221	54,129	2.12		
West Bengal	88,752	11,879	13.38	7,054	3,772	1,053	54.87	1.28	46.19	11,515	4,38,476	32.68		
Andaman and Nicobar Islands	8,249	7,171	86.93	5,613	1,558	0	90.82	2.13	126.65	2,267	89,022	13.19		
Chandigarh	114	35	30.70	32	0	3	0.29	0.01	82.86	4	60	6.09		
Dadra and Nagar Haveli	491	204	41.55	199	5	0	0.74	0.02	36.27	5	322	1.53		
Daman and Diu	111	8	7.21	0	0	8	0.09	0.00	112.50					
Lakshadweep	30	0	0.00	0	0	0	0.00	0.00	0.00					
Puducherry	490	13	2.65	0	2	11	0.05	0.00	38.46	8	127	41.64		
<b>Total</b>	<b>32,87,469</b>	<b>7,67,419</b>	<b>23.34</b>	<b>4,34,853</b>	<b>2,18,924</b>	<b>1,13,642</b>	<b>4273.47</b>	<b>100.00</b>	<b>55.69</b>	<b>62,466</b>	<b>27,93,141</b>	<b>3.83</b>		

Source: India State of Forest Report 2019

### Annexure 3.1(b): Extent and condition accounts of Forests in India

States/UTs	Carbon Stock						Carbon Stock per hectare						Biodiversity Assessment					
	Total	AGB	BGB	Dead Wood	Litter	SOC	Total	AGB	BGB	Dead Wood	Litter	SOC	Total Number of species*			Effective Number of species		
													Herbs	Shrubs	Trees	Herbs	Shrubs	Trees
Andhra Pradesh	2,19,528	60,972	24,206	629	3,074	1,30,647	75.34	20.93	8.31	0.22	1.05	44.84	58	64	242	49.28	54.64	150.57
Arunachal Pradesh	10,51,323	3,30,856	1,00,379	7,816	15,436	5,96,836	157.65	49.61	15.05	1.17	2.31	89.50	192	435	110	149.52	297.39	75.22
Assam	2,70,149	85,844	21,148	1,102	7,223	1,54,832	95.37	30.30	7.47	0.39	2.55	54.66	153	149	143	131.61	106.84	93.21
Bihar	55,239	15,007	5,428	127	746	33,931	75.61	20.54	7.43	0.17	1.02	46.44	52	42	113	43.36	37.70	52.77
Chhattisgarh	4,80,250	1,45,912	46,908	1,858	9,969	2,75,603	86.36	26.24	8.43	0.33	1.79	49.56	50	48	129	26.93	31.73	45.35
Delhi	1,236	277	98	2	21	838	63.26	14.19	5.03	0.11	1.06	42.86	36	11	16	29.37	7.92	7.45
Goa	25,338	9,010	2,617	172	665	12,874	113.24	40.27	11.70	0.77	2.97	57.54	38	50	118	33.07	40.18	63.44
Gujarat	1,07,247	27,737	9,636	315	1,556	68,003	72.18	18.67	6.49	0.21	1.05	45.77	73	37	102	53.90	26.11	45.31
Haryana	10,466	2,455	929	18	137	6,927	65.31	15.32	5.80	0.11	0.86	43.23	50	43	45	24.17	27.39	21.69
Himachal Pradesh	2,52,360	1,10,045	30,745	2,559	2,711	1,06,300	163.51	71.30	19.92	1.66	1.76	68.87	109	99	116	80.40	81.10	73.99
Jammu & Kashmir	3,90,195	1,70,222	47,806	3,813	3,706	1,64,648	165.25	72.09	20.25	1.62	1.57	69.73	272	133	73	176.30	124.26	46.19
Jharkhand	1,78,012	48,994	19,899	423	2,826	1,05,870	75.39	20.75	8.43	0.18	1.20	44.84	40	26	111	32.26	13.56	23.73
Karnataka	3,83,763	1,28,882	38,742	1,993	8,931	2,05,215	99.49	33.41	10.04	0.52	2.32	53.20	40	140	325	34.17	87.04	235.73
Kerala	2,12,956	67,979	19,070	1,017	5,001	1,19,889	100.72	32.15	9.02	0.48	2.36	56.70	81	158	238	68.09	101.92	149.47
Madhya Pradesh	5,88,727	1,65,067	64,630	1,535	8,156	3,49,339	75.98	21.30	8.34	0.20	1.05	45.09	72	79	146	47.99	36.47	44.49
Maharashtra	4,40,508	1,31,249	40,380	1,586	10,687	2,56,606	86.75	25.85	7.95	0.31	2.10	50.53	54	135	170	45.37	70.05	94.04
Manipur	1,78,723	44,723	13,317	508	3,924	1,16,251	106.08	26.55	7.90	0.30	2.33	69.00	56	89	43	39.12	83.46	38.59
Meghalaya	1,80,966	52,302	14,963	731	4,328	1,08,642	105.71	30.55	8.74	0.43	2.53	63.46	42	176	93	33.60	157.54	57.91
Mizoram	1,56,554	44,973	9,925	451	4,516	96,689	86.95	24.98	5.51	0.25	2.51	53.70	56	96	87	58.32	70.04	37.88
Nagaland	1,35,527	35,850	9,612	522	2,897	86,646	108.54	28.71	7.70	0.42	2.32	69.39	113	137	56	98.22	115.02	47.77
Odisha	4,32,288	1,26,656	39,066	1,647	9,062	2,55,857	83.75	24.54	7.57	0.32	1.76	49.57	105	90	192	96.14	72.20	57.90
Punjab	13,344	3,529	1,367	25	125	8,298	72.18	19.09	7.40	0.14	0.67	44.89	37	31	50	25.57	25.69	27.26
Rajasthan	1,08,363	26,155	10,865	191	928	70,224	65.17	15.73	6.53	0.12	0.56	42.23	8	30	65	7.46	19.29	19.75

States/UTs	Carbon Stock						Carbon Stock per hectare						Biodiversity Assessment					
	Total	AGB	BGB	Dead Wood	Litter	SOC	Total	AGB	BGB	Dead Wood	Litter	SOC	Total Number of species*			Effective Number of species		
													Herbs	Shrubs	Trees	Herbs	Shrubs	Trees
<b>Sikkim</b>	57,180	17,645	5,372	505	664	32,994	171.04	52.78	16.07	1.51	1.99	98.69	29	35	59	35.65	53.35	39.23
<b>Tamil Nadu</b>	2,16,782	62,092	21,433	776	4,107	1,28,374	82.23	23.55	8.13	0.29	1.56	48.69	87	313	252	66.11	199.19	188.16
<b>Telangana</b>	1,51,842	41,389	17,227	333	2,031	90,862	73.77	20.11	8.37	0.16	0.99	44.15	33	67	167	23.46	45.56	63.11
<b>Tripura</b>	76,057	25,061	5,513	297	2,169	43,017	98.44	32.44	7.14	0.38	2.81	55.68	22	37	89	51.63	24.53	39.06
<b>Uttar Pradesh</b>	1,15,690	32,498	10,374	372	1,893	70,553	78.14	21.95	7.01	0.25	1.28	47.65	86	71	84	55.01	49.46	52.64
<b>Uttarakhand</b>	3,70,912	1,52,540	40,975	2,948	4,904	1,69,545	152.62	62.77	16.86	1.21	2.02	69.76	94	73	112	86.57	58.59	48.06
<b>West Bengal</b>	1,47,705	40,388	12,193	447	2,533	92,144	87.39	23.90	7.21	0.26	1.50	54.52	65	103	113	55.68	79.00	56.98
<b>Andaman and Nicobar Islands</b>	1,12,666	49,468	15,823	1,116	2,912	43,347	167.09	73.36	23.47	1.66	4.32	64.29	79	102	89	76.89	87.68	59.02
<b>Chandigarh</b>	189	57	18	0	3	111	86.08	25.91	8.10	0.21	1.58	50.28	7	4	21	4.76	3.42	4.95
<b>Dadra and Nagar Haveli</b>	1,800	500	113	7	47	1,133	86.91	24.14	5.47	0.35	2.25	54.70	11	8	25	5.77	2.64	11.94
<b>Daman and Diu</b>	152	35	10	0	2	105	74.64	17.23	4.91	0.13	1.21	51.15						
<b>Lakshadweep</b>	236	67	15	0	5	149	86.98	24.73	5.42	0.17	1.77	54.89						
<b>Puducherry</b>	403	97	22	1	7	276	76.87	18.54	4.22	0.12	1.42	52.57						
<b>Total</b>	71,24,676	22,56,533	7,00,824	35,842	1,27,902	40,03,575	100.03	31.68	9.84	0.50	1.80	56.21	2300	3111	3794			

Source: India State of Forest Report 2019

Note: \*Biodiversity data have been collected from 8,500 sub-plots spread in all the States/UTs among sixteen type groups. The total number of species gives the observed number in these sub-plots.

### Annexure 3.1(c): Extent and condition accounts of Forests in India

States/UTs	No. of Patches								
	Patch Size Range (in sq. km)								
	>=0.01 <=1.0	>1.0 <=10	>10 <=100	>100 <=500	>500 <=1000	>1000 <=5000	>5000 <=10000	>10000	Total
Andhra Pradesh	17,409	644	132	18	3	2	2		18,210
Arunachal Pradesh	30,524	509	51	2	1	2	0	2	31,091
Assam	47,610	764	111	22	1	1	0	1	48,510
Bihar	29,504	162	14	6	2	1			29,689
Chhattisgarh	31,468	1,033	165	23	3	8	2		32,702
Delhi	1,081	15	3						1,099
Goa	2,045	52	13	0	0	1			2,111
Gujarat	69,749	1,676	159	6	1				71,591
Haryana	5,822	104	12	2					5,940
Himachal Pradesh	22,082	554	76	9	4	4			22,729
Jammu & Kashmir	41,872	798	97	15	4	5			42,791
Jharkhand	34,725	597	73	19	1	3			35,418
Karnataka	38,215	1,011	136	10	1	3	1	1	39,378
Kerala	32,038	523	42	3	2	2			32,610
Madhya Pradesh	48,950	1,387	260	42	10	58	5		50,712
Maharashtra	2,35,087	5,666	380	22	4	1			2,41,160
Manipur	3,364	100	4	0	0	0	0	1	3,469
Meghalaya	6,871	88	6	0	0	1	0	1	6,967
Mizoram	1,225	16	0	0	0	0	0	1	1,242
Nagaland	4,413	36	1	0	0	0	0	1	4,451
Odisha	37,175	1,344	174	22	6	5	1	1	38,728
Punjab	6,086	92	3	3	1				6,185
Rajasthan	33,955	1,094	145	10	6				35,210
Sikkim	675	13	4	0	0	1			693
Tamil Nadu	41,335	907	112	12	0	6			42,372
Telangana	13,150	583	106	16	4	4			13,863
Tripura	3,316	81	5	2	0	0	1		3,405
Uttar Pradesh	64,469	728	97	20	4				65,318
Uttarakhand	12,017	322	47	6	3	1	1	1	12,398
West Bengal	66,713	1,151	194	7	1	2			68,068
Andaman and Nicobar Islands	798	49	21	5	2	3			878
Chandigarh	161	4							165
Dadra and Nagar Haveli	168	10	5						183
Daman and Diu	151	3							154
Lakshadweep	13	8							21
Puducherry	853	3							856
<b>Total</b>	<b>7,27,380</b>	<b>16,444</b>	<b>2,183</b>	<b>257</b>	<b>57</b>	<b>42</b>	<b>14</b>	<b>9</b>	<b>7,46,386</b>

Source: India State of Forest Report 2017

**Annexure 3.1(c): Extent and condition accounts of Forests in India**

**(Contd.)**

States/UTs	Area (Sq km)								
	Patch Size Range (in sq. km)								Total
	>=0.01 <=1.0	>1.0 <=10	>10 <=100	>100 <=500	>500 <=1000	>1000 <=5000	>5000 <=10000	>10000	
Andhra Pradesh	1,425	1,894	4,063	3,183	2,467	3,537	11,578		28,147
Arunachal Pradesh	2,019	1,500	1,470	846	585	3,070	0	57,474	66,964
Assam	3,423	2,090	3,247	5,005	637	2,150	0	11,553	28,105
Bihar	2,028	358	315	1,481	1,366	1,751			7,299
Chhattisgarh	2,510	2,746	4,686	4,813	2,390	20,787	17,615		55,547
Delhi	78	44	71						192
Goa	186	113	210	0	0	1,720			2,229
Gujarat	5,051	3,998	3,659	1,263	786				14,757
Haryana	557	235	466	330					1,588
Himachal Pradesh	1,578	1,482	2,276	1,635	3,020	5,109			15,100
Jammu & Kashmir	2,900	2,067	2,754	3,120	2,874	9,526			23,241
Jharkhand	2,247	1,684	2,055	5,209	965	11,393			23,553
Karnataka	3,137	2,819	3,712	1,770	947	5,529	8,389	11,246	37,550
Kerala	2,083	1,309	1,006	687	1,180	14,056			20,321
Madhya Pradesh	3,143	3,260	5,895	7,497	5,528	24,935	27,156		77,414
Maharashtra	18,506	14,148	9,478	4,212	2,626	1,712			50,682
Manipur	265	255	165	0	0	0	0	16,661	17,346
Meghalaya	398	224	135	0	0	1,215	0	15,174	17,146
Mizoram	79	28	0	0	0	0	0	18,079	18,186
Nagaland	212	93	12	0	0	0	0	12,172	12,489
Odisha	1,338	3,690	5,158	4,511	4,461	14,580	5,480	12,127	51,345
Punjab	451	222	65	548	551				1,837
Rajasthan	3,308	2,819	3,805	2,367	4,273				16,572
Sikkim	48	37	119	0	0	3,140			3,344
Tamil Nadu	3,288	2,461	2,871	3,019	0	14,642			26,281
Telangana	1,258	1,699	2,544	3,155	2,792	8,971			20,419
Tripura	253	211	140	363	0	0	6,759		7,726
Uttar Pradesh	3,627	1,934	2,508	4,086	2,524				14,679
Uttarakhand	972	862	1,372	1,040	2,017	1,166	5,153	11,713	24,295
West Bengal	4,583	3,089	5,025	1,155	517	2,478			16,847
Andaman and Nicobar Islands	70	155	628	709	1,493	3,687			6,742
Chandigarh	12	10							22
Dadra and Nagar Haveli	20	21	166						207
Daman and Diu	12	8							20
Lakshadweep	4	24							27
Puducherry	49	5							54
<b>Total</b>	<b>54,082</b>	<b>43,639</b>	<b>58,052</b>	<b>51,298</b>	<b>39,628</b>	<b>85,407</b>	<b>90,028</b>	<b>2,86,139</b>	<b>7,08,273</b>

Source: India State of Forest Report 2017

**Annexure 3.1(c): Extent and condition accounts of Forests in India**

**(Contd.)**

States/UTs	Percentage								Average Patch Size Sq km	Proportion of small patches (≥0.01sq km to ≤1 sq km) %
	Patch Size Range (in sq. km)									
	>=0.01 <=1.0	>1.0 <=10	>10 <=100	>100 <=500	>500 <=1000	>1000 <=5000	>5000 <=10000	>10000		
Andhra Pradesh	5.06	6.73	14.44	11.31	8.76	12.57	41.13		1.55	95.60
Arunachal Pradesh	3.02	2.24	2.19	1.26	0.87	4.59	0.00	85.83	2.15	98.18
Assam	12.18	7.44	11.55	17.81	2.27	7.65	0.00	41.10	0.58	98.14
Bihar	27.78	4.90	4.32	20.30	18.71	23.99			0.25	99.38
Chhattisgarh	4.52	4.94	8.44	8.67	4.30	37.42	31.71		1.70	96.23
Delhi	40.44	22.90	36.66						0.18	98.36
Goa	8.34	5.07	9.42	0.00	0.00	77.17			1.06	96.87
Gujarat	34.23	27.09	24.79	8.56	5.33				0.21	97.43
Haryana	35.08	14.80	29.34	20.78					0.27	98.01
Himachal Pradesh	10.45	9.82	15.07	10.83	20.00	33.83			0.66	97.15
Jammu & Kashmir	12.48	8.89	11.85	13.42	12.37	40.99			0.54	97.85
Jharkhand	9.54	7.14	8.73	22.12	4.10	48.37			0.67	98.04
Karnataka	8.35	7.51	9.89	4.71	2.52	14.72	22.34	29.95	0.95	97.05
Kerala	10.25	6.44	4.95	3.38	5.81	69.17			0.62	98.25
Madhya Pradesh	4.06	4.21	7.62	9.68	7.14	32.21	35.08		1.53	96.53
Maharashtra	36.51	27.92	18.70	8.31	5.18	3.38			0.21	97.48
Manipur	1.53	1.47	0.95	0.00	0.00	0.00	0.00	96.05	5.00	96.97
Meghalaya	2.32	1.30	0.79	0.00	0.00	7.09	0.00	88.50	2.46	98.62
Mizoram	0.44	0.15	0.00	0.00	0.00	0.00	0.00	99.41	14.64	98.63
Nagaland	1.70	0.74	0.10	0.00	0.00	0.00	0.00	97.46	2.81	99.15
Odisha	2.61	7.19	10.05	8.79	8.69	28.40	10.67	23.60	1.33	95.99
Punjab	24.55	12.08	3.54	29.83	30.00				0.30	98.40
Rajasthan	19.96	17.02	22.96	14.28	25.78				0.47	96.44
Sikkim	1.43	1.11	3.56	0.00	0.00	93.90			4.83	97.40
Tamil Nadu	12.51	9.36	10.92	11.49	0.00	55.72			0.62	97.55
Telangana	6.16	8.32	12.46	15.45	13.68	43.93			1.47	94.86
Tripura	3.27	2.73	1.81	4.70	0.00	0.00	87.49		2.27	97.39
Uttar Pradesh	24.71	13.17	17.09	27.84	17.19				0.22	98.70
Uttarakhand	4.00	3.55	5.65	4.28	8.30	4.80	21.21	48.21	1.96	96.93
West Bengal	27.20	18.33	29.83	6.86	3.07	14.71			0.25	98.01
Andaman and Nicobar Islands	1.04	2.30	9.31	10.52	22.14	54.69			7.68	90.89
Chandigarh	54.87	45.13							0.13	97.58
Dadra and Nagar Haveli	9.67	10.14	80.19						1.13	91.80
Daman and Diu	58.71	41.29							0.13	98.05
Lakshadweep	13.14	86.86							1.29	61.90
Puducherry	90.42	9.58							0.06	99.65
<b>Total</b>	<b>7.64</b>	<b>6.16</b>	<b>8.20</b>	<b>7.24</b>	<b>5.59</b>	<b>12.06</b>	<b>12.71</b>	<b>40.40</b>	<b>0.95</b>	<b>97.45</b>

Source: India State of Forest Report 2017