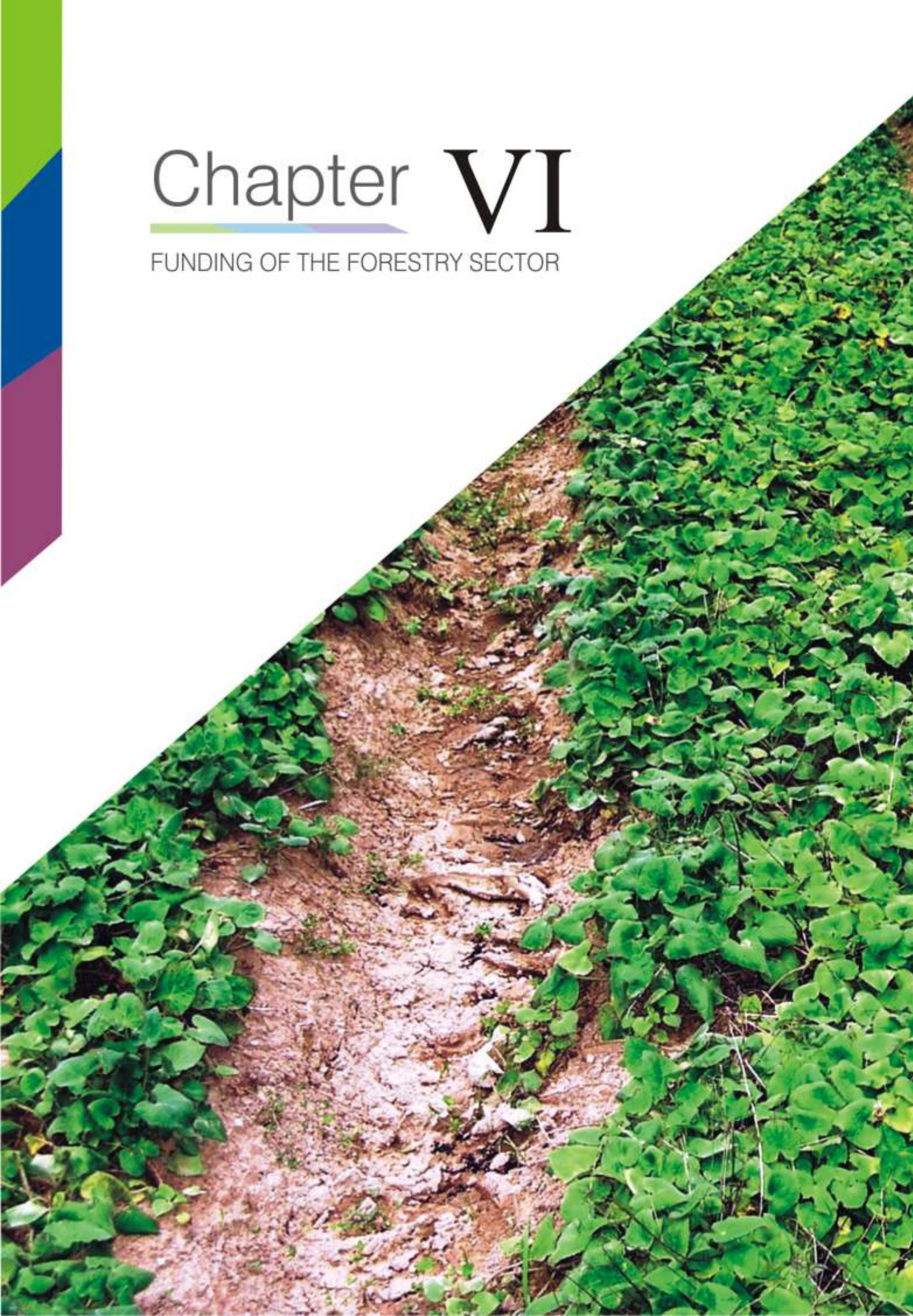


Chapter VI

FUNDING OF THE FORESTRY SECTOR





FUNDING OF THE FORESTRY SECTOR

The forest sector is funded by both the central and the state governments. Apart from this, some SFDs also receive funds from external sources as projects and soft loans from various countries and agencies like DFID, FAO, UNDP, World Bank, etc. State governments provide fund to the sector through non-plan (committed expenditure) and plan works. The expenditure on forests and wildlife includes budget allocation of most of the Centrally Sponsored Schemes (CSS). One of the main objectives of the budget allocation is to enhance the area of forest cover through afforestation and improving the quality, protection and conservation of forests and wildlife. Central government allocates funds to the SFDs under the plan component against specific schemes, namely, Integrated Forest Protection Scheme (IFPS), NAP, Wildlife Conservation, etc. The finance commissions also provided grants to the sector from 2005 onwards. Since 2009, the MoEF&CC has started financing from the CAMPA fund. The plan expenditure on important sectors is given in Table 6.1. Out of the five selected sectors, maximum outlay of INR 2,760.75 Cr was sanctioned to NRCD and minimum of INR 119.00 Cr to Animal Welfare in XI Plan (2007-12). In XII Plan (upto 31st Jan 2014), Forest and Wildlife received maximum fund of INR 4,818.80 Cr followed by NAEB (INR 4,780.00 Cr). Again, Animal Welfare was at the lowest receiving of INR 200.20 Cr.

Table 6.1. Plan expenditure (in INR Cr) in important sectors

S no.	Sector	XI Plan (2007-2012)		XII Plan (2012 -2017)*	
		Outlay	Expenditure	Outlay	Expenditure
1	Environment	1,913.34	1,648.72	3,802.00	349.59
2	NRCD	2,760.75	2,250.71	4,273.00	505.79
3	Forests and Wildlife	2,611.44	2,617.36	4,818.80	553.35
4	NAEB	1,826.47	1,836.58	4,780.00	285.62
5	Animal Welfare	119.00	116.85	200.20	5.73
Total		9,231.00	8,470.22	17,874.00	1,700.08

Source: MoEF&CC, Gol; *: Information regarding XII plan is available upto 31st January 2014.

6.1 FUNDS FROM CAMPA

The CAMPA was constituted in April 2004 as a result of the order (IA No. 566 in WP (Civil) No. 202/1995 in T.N. Godavarman versus Union of India, 2002) of the Supreme Court of India. The Apex Court directed that a Compensatory Afforestation Fund should be created out of the contributions received from the user



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agencies to whom forest land has been diverted for non-forestry purpose, as additional compensatory afforestation, penal compensatory afforestation, Net Present Value, etc. After inclusion of net present value, a huge amount of money has been received under this at a rate between INR 5.8 to 9.6 lakh ha⁻¹. Initially, the CAMPA could not become operational for various reasons. In March 2006, Supreme Court of India ordered for formation of an *ad hoc* CAMPA to be chaired by DGF&SS, MoEF&CC to ensure that all the funds received on behalf of it and lying with the state governments are transferred to a single bank account and utilized for development and protection of forests and wildlife. In 2009, state CAMPAs were created and the fund flow from the centre to state CAMPAs was streamlined. From 2010-11 to 2017-18, the amount lying with central CAMPA is to the tune of INR 10,357.51 Cr including the accrued interest. The funds are released to the states based on the proposals and Annual Plans of Operations. The details of funds transferred from the centre to the state CAMPA is given in Table 6.1.1. The three UTs (Daman and Diu, Lakshadweep and Puducherry) and one state (Nagaland) did not receive any fund.

Table 6.1.1. Year-wise fund release (INR Cr) from Centre to States under CAMPA

S. no.	State/UT	Year								Total
		2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	
1.	Andaman and Nicobar Islands	0.79	0.00	0.58	0.00	2.30	1.00	0.00	0.00	4.67
2.	Andhra Pradesh	120.74	118.57	119.60	92.00	135.00	85.00	89.00	33.00	792.91
3.	Arunachal Pradesh	34.16	41.19	11.76	11.76	47.50	62.00	150.00	0.00	358.37
4.	Assam	10.45	0.00	15.06	13.00	0.00	0.00	30.00	12.00	80.51
5.	Bihar	8.67	8.04	8.47	0.00	19.80	34.14	33.00	18.00	130.12
6.	Chandigarh	0.13	0.00	0.00	0.10	0.20	2.12	1.00	0.56	4.11
7.	Chhattisgarh	134.11	99.54	114.38	110.00	193.00	239.00	280.00	0.00	1,170.03
8.	Dadra and Nagar Haveli	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.15
9.	Daman and Diu	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10.	Delhi	1.40	0.00	0.00	4.52	4.00	3.91	4.00	0.00	17.83
11.	Goa	10.25	0.00	0.00	23.10	0.00	0.00	0.00	0.00	33.35
12.	Gujarat	29.16	26.30	32.41	28.00	65.00	33.00	45.00	0.00	258.87

S. no.	State/UT	Year								Total
		2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	
13.	Haryana	18.89	0.00	16.45	35.50	23.00	64.00	18.00	0.00	175.84
14.	Himachal Pradesh	42.17	57.13	52.40	53.50	96.00	76.98	109.62	49.00	536.8
15.	Jammu and Kashmir	0.00	0.00	23.78	18.00	34.00	31.00	102.00	0.00	208.78
16.	Jharkhand	103.16	62.50	47.98	145.48	175.00	141.00	149.00	134.00	958.12
17.	Karnataka	50.92	41.57	43.72	34.50	65.00	60.00	85.12	0.00	380.83
18.	Kerala	0.00	0.00	1.37	4.54	0.00	0.00	0.00	0.00	5.91
19.	Lakshadweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20.	Madhya Pradesh	50.97	53.52	0.00	61.50	89.50	213.00	140.00	0.00	608.49
21.	Maharashtra	85.49	82.63	78.21	78.00	148.00	155.00	205.00	106.00	938.33
22.	Manipur	1.34	0.00	1.91	6.47	8.27	25.00	15.00	0.00	57.99
23.	Meghalaya	0.10	0.00	0.00	0.07	0.00	16.56	0.00	0.00	16.73
24.	Mizoram	0.00	0.00	1.07	5.22	6.80	6.73	6.75	6.10	32.67
25.	Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26.	Odisha	140.18	166.02	215.89	0.00	180.00	322.00	426.00	0.00	1,450.09
27.	Puducherry	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28.	Punjab	26.52	22.08	19.31	21.50	41.00	49.00	49.00	0.00	228.41
29.	Rajasthan	42.07	31.89	37.43	34.50	74.00	48.00	140.00	94.00	427.89
30.	Sikkim	10.23	9.04	8.75	9.50	13.70	11.00	9.00	0.00	71.22
31.	Tamil Nadu	1.70	0.00	2.53	0.00	0.00	2.20	9.00	0.00	15.43
32.	Telangana	0.00	0.00	0.00	0.00	35.00	76.00	117.00	5.00	233.00
33.	Tripura	2.58	0.00	2.28	3.50	8.00	11.00	12.00	7.10	46.46
34.	Uttar Pradesh	0.00	35.35	30.48	0.00	44.91	177.00	118.00	0.00	405.74
35.	Uttarakhand	82.75	0.00	97.05	93.23	68.00	164.00	170.71	0.00	675.74
36.	West Bengal	6.28	4.84	0.00	0.00	0.00	0.00	21.00	0.00	32.12
	Total	1,015.21	860.36	982.87	887.49	1,502.98	2,109.64	2,534.20	464.76	10,357.51

Source: FC Division, MoEF&CC, GoI.

A total of INR 10,357.51 Cr have been disbursed from 2010-11 to 2017-18 to the State CAMPAs by the Central Government. When the fund disbursement was evaluated over time (Fig. 6.1.1.), it was observed that the initial release was practically consistent from 2010 to 2014 (around INR 1,000.00 Cr) which had a qualitative leap afterwards and with a rising trends (INR 1,500 to 2,500 Cr) upto 2016. Year 2017 received the minimum fund of about INR 465 Cr.

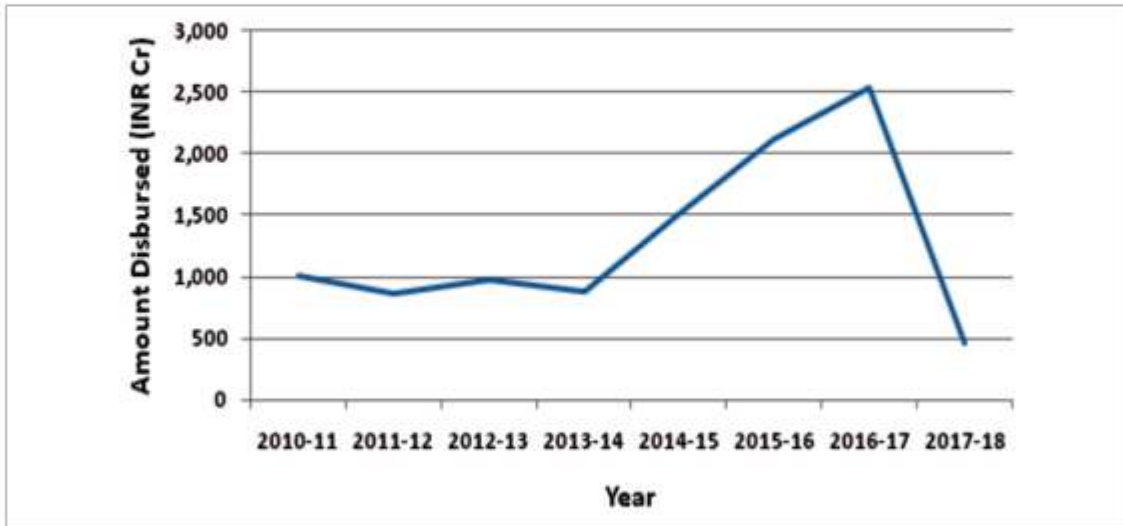


Fig 6.1.1. Trend of release of CAMPA funds to SFDs.

The top ten states to get funding from 2010-11 to 2017-18 under CAMPA are given in Figure 6.1.2. with Odisha topping the list (INR 1,450.09 Cr). These states are fairly distributed geographically, however, north-east and south regions are relatively less represented.

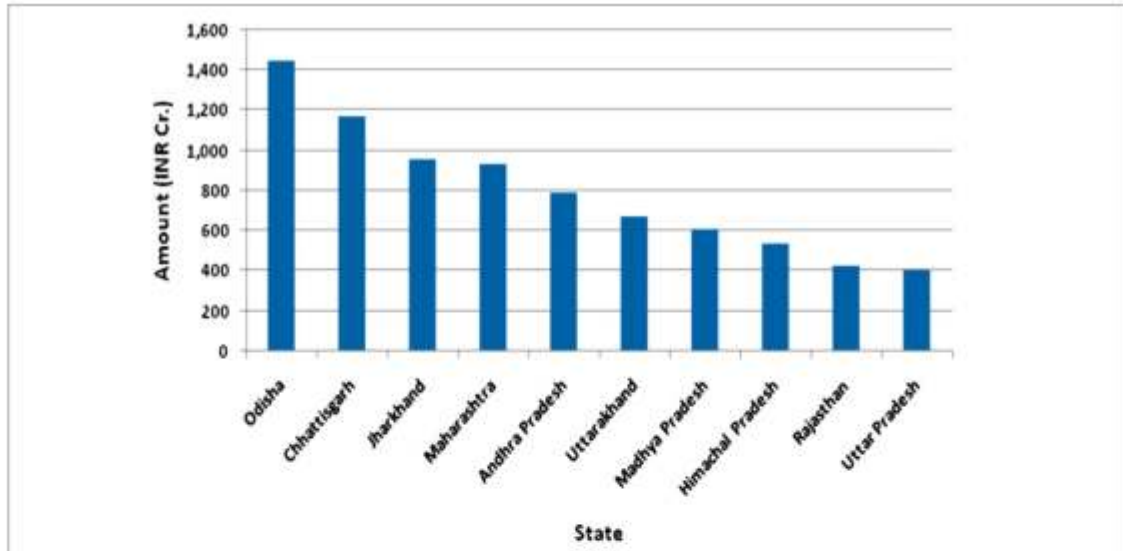


Fig 6.1.2. Ten states that received maximum grant under CAMPA from 2010-11 to 2017-18.

6.2 FUNDS FROM NAEB UNDER NAP

In order to promote afforestation, tree planting, eco-restoration and other activities related to eco-development, NAEB was formed in August 1992. It gives special attention to degraded forest areas and other degraded lands adjoining the forests, National Parks, Sanctuaries, Protected Areas, ecological fragile areas like Western Himalayas, Aravallis, etc. The board is enabling the funds for the National Afforestation Programme (NAP), a flagship programme of the MoEF&CC, GoI related to afforestation. The funds released under NAEB to states are detailed in Table 6.2.1. Maximum fund was allocated to Maharashtra (INR 182.61 Cr) during 2010-11 to 2017-18 while no fund was allotted to Goa and, therefore, it is excluded from the Table. Three states, namely, Arunachal Pradesh, Punjab and Telangana

received less than INR 10 Cr during the period. During 2016-17, almost half states/UTs did not receive any fund under NAP scheme.

Table 6.2.1. Funds released (INR Cr) under NAP to states

S. no.	State	Year									Total
		2010 -11	2011 -12	2012 -13	2013 -14	2014 -15	2015 -16	2016 -17	2017 -18	2018 -19	
1.	Andhra Pradesh	10.48	15.15	2.71	3.75	4.56	0.87	1.33	3.36	6.38	48.58
2.	Arunachal Pradesh	5.52	0.00	1.66	0.00	0.15	0.00	0.00	0.86	0.00	8.19
3.	Assam	6.08	7.95	1.47	2.99	0.00	2.56	0.00	0.00	0.58	21.63
4.	Bihar	5.48	6.92	3.40	12.84	7.00	5.01	2.18	4.23	0.00	47.06
5.	Chhattisgarh	33.25	24.74	13.33	21.38	20.00	10.20	4.92	10.86	7.82	146.50
6.	Gujarat	29.43	27.00	14.30	11.68	10.50	8.54	4.36	0.00	0.00	105.81
7.	Haryana	24.20	12.28	6.41	17.94	11.00	0.72	3.50	2.71	0.00	78.76
8.	Himachal Pradesh	3.45	3.50	3.62	2.61	0.73	0.00	0.00	1.73	2.92	18.55
9.	Jammu and Kashmir	3.99	6.89	3.37	8.11	3.59	0.00	0.00	7.20	0.00	33.15
10.	Jharkhand	8.73	10.42	4.69	9.02	8.60	0.00	0.00	0.00	0.00	41.46
11.	Karnataka	8.12	12.92	6.81	9.26	21.35	1.05	7.33	3.24	10.99	81.05
12.	Kerala	7.54	2.04	11.30	6.99	2.82	1.02	0.00	0.00	0.00	31.70
13.	Madhya Pradesh	30.39	21.43	9.15	22.10	21.00	9.45	4.00	8.74	7.78	134.04
14.	Maharashtra	16.17	28.51	28.87	32.33	35.00	14.90	4.76	6.73	15.33	182.61
15.	Manipur	10.37	12.74	9.46	12.12	8.00	3.67	1.21	3.20	4.38	65.14
16.	Meghalaya	8.79	4.31	9.10	4.50	3.61	1.35	0.00	1.65	0.74	34.04
17.	Mizoram	12.21	13.44	8.78	11.94	15.00	10.17	6.74	5.80	7.79	91.87
18.	Nagaland	10.11	11.69	10.88	9.82	11.00	0.00	5.21	5.85	6.41	70.95
19.	Odisha	11.20	7.30	3.38	5.36	17.92	9.49	4.62	3.49	11.36	74.12
20.	Punjab	0.00	0.46	0.76	2.00	1.87	0.00	0.00	0.00	0.00	5.09
21.	Rajasthan	4.94	6.23	4.14	2.81	3.35	0.75	0.00	1.40	1.95	25.57
22.	Sikkim	11.99	11.18	5.42	3.77	6.00	1.52	5.09	0.00	5.98	50.95
23.	Tamil Nadu	7.21	3.08	2.78	3.21	4.25	1.42	1.56	0.00	2.07	25.58

S. no.	State	Year									Total
		2010	2011	2012	2013	2014	2015	2016	2017	2018	
		-11	-12	-13	-14	-15	-16	-17	-18	-19	
24.	Telangana	0.00	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00	2.03
25.	Tripura	10.43	13.69	3.50	11.99	9.17	5.73	0.00	4.94	0.00	59.45
26.	Uttar Pradesh	21.33	26.23	15.27	20.15	12.00	2.68	2.55	0.67	0.32	101.19
27.	Uttarakhand	4.47	6.61	6.25	6.01	2.50	3.05	0.00	3.36	2.58	34.84
28.	West Bengal	4.12	6.29	2.57	2.96	0.78	0.00	0.00	0.00	0.00	16.72
Total		309.99	303.00	193.37	257.62	243.78	94.16	59.35	80.00	95.39	1,636.65

Source: NAEB, MoEF&CC, Gol

In general, the NAEB funding to the states has been on decline since beginning (Fig 6.2.1). Two conspicuous dips in funding were observed in 2012-13 and 2015-16. The money flow remained practically static between 2010-11 to 2011-12, 2013-14 to 2014-15 and 2017-18 to 2018-19.

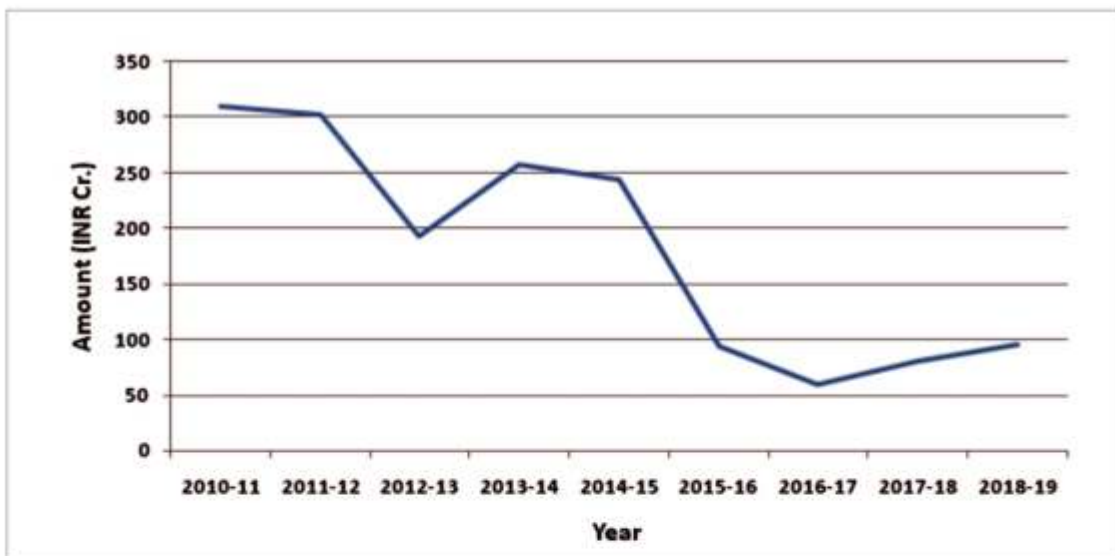


Fig 6.2.1. Trend of funding to SFDs under NAEB.

Among the top ten states/UTs that received NAEB fund, Maharashtra received maximum funds (INR 182.61 Cr) for its activities (Fig 6.2.2.). On the other extreme, Nagaland (INR 70.95 Cr) had minimum share that was comparable to Odisha (INR 74.12 Cr).



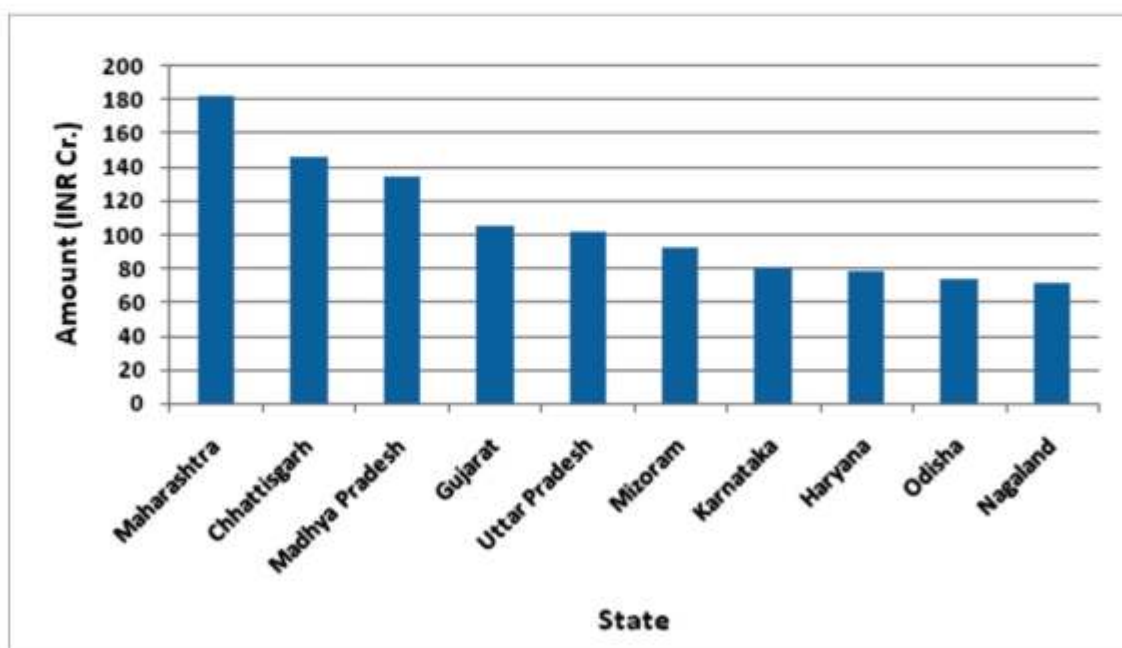


Fig 6.2.2. Ten states that received maximum grant under NAEB from 2010-11 to 2018-19.

6.3 FUNDS FROM NATIONAL MISSION FOR A GREEN INDIA

The National Mission for a Green India or Green India Mission (GIM) is one of the eight missions outlined under the National Action Plan on Climate Change. It aims at protecting, restoring and enhancing India's forest cover and responding to climate. GIM activities were started in the financial year 2015-16. So far under GIM, fund amounting to INR 237.07 Cr have been released to twelve states from 2015-16 to 2018-19 (Table 6.3.1.).

Table 6.3.1. Details for afforestation funds (INR Cr) under GIM

S. no.	State	Year				Total
		2015-16	2016-17	2017-18	2018-19	
1.	Andhra Pradesh	-	1.06	0.45	2.67	4.17
2.	Chhattisgarh	23.39	20.23	10.95	5.36	59.93
3.	Karnataka	1.06	0.87	0.86	1.62	4.41
4.	Kerala	9.15	-	-	-	9.15
5.	Manipur	8.35	7.82	6.42	4.89	27.48
6.	Mizoram	-	9.88	20.00	22.36	52.25
7.	Odisha	1.83	1.39	1.41	4.74	9.37
8.	Punjab	6.12	-	6.22	-	12.33
9.	Uttarakhand	20.21	-	-	-	20.21

S. no.	State	Year				Total
		2015-16	2016-17	2017-18	2018-19	
10.	Sikkim	-	-	-	3.33	3.33
11.	Maharashtra	-	-	-	10.30	10.30
12.	Madhya Pradesh	-	-	-	24.16	24.16
Total		70.09	41.25	46.30	79.43	237.07

Source: GIM, MoEF&CC, Gol.

6.4 REVENUE AND EXPENDITURE

Although the main focus is on conservation, the departments earn revenue through a host of services. Selling of timber (confiscated or felled as per working plans), royalty from NTFPs, eco-tourism, etc. help the department to generate revenue. Table 6.4.1 gives the revenue generated by the SFDs. The data available from different sources is insufficient. For example, five states (Jharkhand and Odisha) and UTs (Chandigarh, Daman and Diu and Lakshadweep) could not provide any data of revenue while one state, i.e., Delhi had revenue data for 2010-11 only (INR 13.74 Cr), therefore, not included in the Table 6.4.1. Further, eight states (Arunachal Pradesh, Bihar, Goa, Jammu and Kashmir, Manipur and Tamil Nadu) and UTs (Dadar and Nagar Haveli and Puducherry) had revenue data for first four years. It reflects that the data base for revenue is poor and deserves sufficient inputs in future. Madhya Pradesh earned the maximum average revenue of INR 929.44 Cr year⁻¹ followed by Uttar Pradesh (INR 382.34 Cr year⁻¹). As expected, the revenue for small states and UTs has been relatively small, for example, it was Rs 0.02 Cr year⁻¹ for Puducherry.

Table 6.4.1. Revenue of SFDs (INR Cr)

S. no.	State / UT	Year						
		2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
1.	Andhra Pradesh	128.74	148.86	168.22	205.61	437.00	473.65	NA
2.	Arunachal Pradesh	10.83	6.65	6.19	11.89	NA	NA	NA
3.	Assam	63.03	58.58	34.23	29.06	42.86	56.93	140.06
4.	Bihar	7.59	9.72	12.42	16.22	NA	NA	NA
5.	Chhattisgarh	NA	344.08	358.96	381.00	399.00	410.23	2.31*
6.	Goa	3.10	2.51	3.18	2.15	NA	NA	NA
7.	Gujarat	42.88	39.54	51.71	61.50	46.70	130.36	153.08
8.	Haryana	NA	39.58	41.31	35.91	39.11	52.29	56.27
9.	Himachal Pradesh	65.44	106.54	63.90	357.83	11.57	34.47	18.50

S. no.	State / UT	Year						
		2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
10.	Jammu and Kashmir	44.23	49.29	47.97	55.07	NA	NA	NA
11.	Karnataka	164.68	168.29	171.51	161.12	174.11	155.47	286.81
12.	Kerala	274.10	220.52	237.33	329.95	300.40	290.21	NA
13.	Madhya Pradesh	837.14	871.25	989.66	1,104.82	1,073.94	699.85	NA
14.	Maharashtra	245.05	263.34	251.66	184.96	211.99	227.20	175.19
15.	Manipur	1.99	3.27	2.82	3.09	NA	NA	NA
16.	Meghalaya	17.74	NA	24.34	47.53	68.55	72.08	79.30
17.	Mizoram	2.40	3.19	2.39	2.98	5.20	3.10	2.82
18.	Nagaland	6.63	8.20	5.87	5.78	8.91	5.74	8.31
19.	Punjab	12.30	5.07	5.33	20.82	19.44	NA	NA
20.	Rajasthan	82.09	73.76	90.06	76.27	51.28	131.81	111.00
21.	Sikkim	11.00	12.53	9.20	10.67	9.34	12.47	NA
22.	Tamil Nadu	89.25	105.86	82.53	98.65	NA	NA	NA
23.	Telangana	NA	96.78	114.50	148.28	82.08	108.21	NA
24.	Tripura	7.43	6.98	6.56	7.70	9.83	11.86	11.01
25.	Uttar Pradesh	280.33	284.97	331.31	355.09	412.92	629.40	NA
26.	Uttarakhand	229.85	237.82	231.02	363.80	349.06	358.50	322.21
27.	West Bengal	75.33	91.47	104.24	113.46	135.69	86.74	126.22
28.	Andaman and Nicobar Islands	15.41	14.47	16.85	17.97	20.80	25.20	26.12
29.	Dadra and Nagar Haveli	4.61	9.94	2.97	1.70	NA	NA	NA
30.	Puducherry	0.02	0.01	0.05	0.01	NA	NA	NA

Source: SFDs; NA: Information not available; *: Up-to October 2016.

Expenditure is incurred by the SFDs in salaries, maintenance, construction of new structures like check dams, rest houses, etc. The details of expenditure incurred by the SFDs are given in the Table 6.4.2. Four states (Bihar, Delhi, Jharkhand, Meghalaya) and four UTs (Chandigarh, Daman and Diu, Lakshadweep, Puducherry) have not shown any expenditure for the reporting period (2010-11 to 2016-17), therefore, excluded from the Table. Tamil Nadu reported expenditure for the year 2010-11, 2012-13, and 2013-14 only. It is again emphasized that the information with regards to expenditure are insufficient as practically one fourth of the states and UTs have not put their expenditure in the public domain and deserve their attention in future.

Table 6.4.2. Expenditure of SFDs (INR Cr)

S. no.	State / UT	Year						
		2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
1.	Andhra Pradesh	277.28	331.15	356.23	336.95	271.65	206.52	NA
2.	Arunachal Pradesh	87.88	86.99	84.65	97.51	NA	NA	NA
3.	Assam	247.22	303.13	370.38	398.07	331.41	330.37	520.21
4.	Chhattisgarh	453.01	461.67	496.27	537.04	573.02	277.63	NA
5.	Goa	34.75	52.03	37.60	44.71	NA	NA	NA
6.	Gujarat	628.96	722.53	780.55	884.47	1,025.67	787.58	1,069.67
7.	Haryana	NA	221.14	262.06	260.22	314.46	326.17	288.54
8.	Himachal Pradesh	367.42	377.07	381.75	439.91	44.94	430.57	441.12
9.	Jammu and Kashmir	206.25	253.65	272.71	289.56	NA	NA	NA
10.	Karnataka	555.10	665.40	852.12	1,015.77	1,164.36	1,253.81	1,391.25
11.	Kerala	214.48	298.53	373.24	399.19	456.07	444.76	NA
12.	Madhya Pradesh	786.73	853.38	1,050.86	1,077.69	1,121.91	636.96	NA
13.	Maharashtra	916.80	1,120.17	1,331.97	1,545.30	1,772.11	2,536.38	3,053.88
14.	Manipur	323.21	49.84	46.49	48.65	NA	NA	NA
15.	Mizoram	103.67	63.23	82.18	92.86	121.65	80.15	0.00
16.	Nagaland	62.47	80.70	86.90	74.93	122.09	59.54	63.98
17.	Odisha	612.74	669.58	598.26	651.43	522.56	468.37	427.31
18.	Punjab	63.38	72.91	13.70	89.53	105.41	NA	NA
19.	Rajasthan	NA	529.76	671.88	845.62	860.06	1,076.82	956.12
20.	Sikkim	158.14	59.14	57.71	41.11	96.89	71.67	NA
21.	Tamil Nadu	272.17	NA	561.61	651.57	NA	NA	NA
22.	Telangana	NA	NA	NA	NA	239.16	376.94	NA
23.	Tripura	61.00	62.92	86.92	74.39	64.96	75.74	55.09
24.	Uttar Pradesh	467.27	489.65	591.40	723.40	795.51	860.63	NA
25.	Uttarakhand	307.28	320.42	391.55	423.14	533.22	547.77	545.89
26.	West Bengal	35.79	330.57	338.46	425.57	410.61	485.66	536.27
27.	Andaman and Nicobar Islands	131.84	144.18	155.91	163.79	177.84	199.35	232.66

Source: SFDs; NA: Information not available.

6.5 INTENSIFICATION OF FOREST MANAGEMENT SCHEME

With a view to minimizing fire hazards and controlling forest fires, a project was launched during the 9th Plan period (1997-2002) in two states with the assistance of UNDP. Later on, this project was first extended to 10 states and, then, to the entire country. To consolidate its gains, the project was formalized during the 10th Plan (2002-07) into a CSS called 'Integrated Forest Protection Scheme (IFPS)'. The IFPS has been allowed to continue during 11th Plan period (2007-12) with the new name 'Intensification of Forest Management Scheme (IFMS)' by adding four new components. The primary objective of the scheme was to address the most pressing needs of forest protection. The components of the scheme included forest fire control and management, survey, demarcation and preparation of working plans, strengthening of infrastructure such as roads, camp offices, watch towers, improved mobility, fire arms and use of modern information and communication technology, etc. The financial profile of the scheme during the period 2010-11 to 2018-19 is detailed in Table 6.5.1.

Table 6.5.1. Financial targets and achievements (INR Cr) under IFMS

Year	Budget estimate	Expenditure
2010 -11	65.00	56.85
2011 -12	65.00	56.20
2012 -13	53.25	51.06
2013 -14	68.25	50.94
2014 -15	68.25	54.04
2015 -16	49.50	44.50
2016 -17	50.00	44.90
2017 -18	50.00	34.82
2018 -19	50.00	46.58

Source: MoEF&CC, GoI

The Forest Fire Prevention and Management Scheme (FPM) replaced the IFMS in December 2017. Funds are allocated under the FPM according to a center-state cost-sharing formula, with a 90:10 ratio of central to state funding in the Northeast and Western Himalayan regions and a 60:40 ratio for all other states (MoEF&CC, 2017). Funds are released to the states as per approved Annual Plan of Operations. Although, the FPM is the only dedicated CSS for fire prevention and management, states have the flexibility to mobilize a part of NAP and GIM funding toward forest fire work. The amount disbursed to various states under FPM during the last three years (as on 31.03.2019) is given in Table 6.5.2. Three UTs, Dadar and Nagar Haveli, Daman and Diu and Lakshadweep have not been mentioned in the Table as they did not receive any fund during the period mentioned.

Table 6.5.2. Amount disbursed (INR Cr) to the states under FPM (as on March 2019)

S. No.	State/UT	Year		
		2016-17	2017-18	2018-19
1.	Andhra Pradesh	0.000	0.000	2.601
2.	Andaman and Nicobar Islands	0.562	0.090	0.264
3.	Arunachal Pradesh	1.813	1.020	0.891
4.	Assam	0.000	0.000	0.932
5.	Bihar	0.886	0.750	0.572

S. No.	State/UT	Year		
		2016-17	2017-18	2018-19
6.	Chandigarh	0.745	0.080	0.010
7.	Chhattisgarh	2.110	1.680	1.046
8.	Goa	0.000	0.000	0.878
9.	Gujarat	1.223	0.750	0.922
10.	Haryana	0.939	0.750	0.000
11.	Himachal Pradesh	3.314	2.767	0.000
12.	Jammu and Kashmir	0.956	0.750	0.000
13.	Jharkhand	1.996	1.050	1.078
14.	Karnataka	2.033	1.050	1.747
15.	Kerala	1.637	2.345	2.796
16.	Madhya Pradesh	2.812	1.680	6.283
17.	Maharashtra	3.726	3.216	7.873
18.	Manipur	1.250	2.199	2.305
19.	Meghalaya	1.266	1.046	1.135
20.	Mizoram	1.313	0.906	1.105
21.	Nagaland	1.700	0.926	0.831
22.	Delhi	0.500	0.300	0.000
23.	Odisha	2.661	1.680	4.350
24.	Puducherry	0.000	0.300	0.498
25.	Punjab	0.000	0.750	0.000
26.	Rajasthan	1.742	1.050	0.988
27.	Sikkim	1.197	1.486	0.000
28.	Tamil Nadu	0.743	1.050	0.000
29.	Telangana	0.000	1.050	0.000
30.	Tripura	1.908	0.660	1.097
31.	Uttar Pradesh	1.397	0.750	1.006
32.	Uttarakhand	3.040	1.680	4.384
33.	West Bengal	0.928	0.750	0.541
Total		44.398	34.561	46.134

Source: MoEF&CC, GoI.

6.6 INTEGRATED DEVELOPMENT OF WILDLIFE HABITATS

The 'Integrated Development of Wildlife Habitats' (IDWH) is an ongoing CSS which has been made operational by adding more components and activities to the erstwhile CSS "Assistance for the Development of National Parks and Sanctuaries" during the 11th Plan period. Under IDWH, the financial assistance is provided to State/UT governments for protection and conservation of wildlife and its habitats in as well as outside the protected areas and also for the recovery programmes for the critically endangered species. The scheme has following three components:

- Support to protected areas (National Parks, Wildlife Sanctuaries, Conservation Reserves and Community Reserves),
- Protection of wildlife outside protected areas and
- Recovery programmes for saving critically endangered species and habitats.

IDWH has helped in conservation and improvement of habitats of the endangered and critically endangered species (Table 6.6.1). Table 6.6.1 also provides the fund given for undertaking the tasks related to recovery, conservation and protection of species under IDWH scheme.

Table 6.6.1. Funds (INR lakh) released for recovery of species

S. no	Species/ State	Year									
		2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1 Hangul											
i	Jammu and Kashmir	-	89.62	-	79.94	-	-	-	77.23	-	-
2 Snow Leopard											
i.	Jammu and Kashmir	-	43.2	-	-	-	-	-	4.81	386.51	149.84
ii.	Arunachal Pradesh	3.2	-	-	-	-	-	-	-	-	-
iii	Himachal Pradesh	-	24.16	84.71	71.49	10.15	53.56	33.96	-	-	-
3 Vulture											
i.	Punjab	-	2.4	-	-	-	-	-	-	-	-
ii.	Haryana	-	-	9.60	-	-	-	99.33	116.05	181.44	122.30
iii.	Kerala	-	-	-	-	-	-	24	16.58	21.80	25.50
iv.	West Bengal	-	-	-	-	-	-	-	-	79.44	110.04
v.	Uttarakhand	-	-	-	-	-	-	-	-	580.23	-
4 Swiftlets											
i.	Andaman and Nicobar Islands	30.99	24.67	19.2	17.54	13.79	-	-	-	-	-
5 Asiatic Lion											
i.	Gujarat	-	674.5	675.86	-	-	-	-	-	-	1,702.62

S. no.	Species/ State	Year									
		2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
6 Nilgiri Thar											
i.	Tamil Nadu	4.8	-	-	-	-	-	-	-	-	-
ii.	Kerala	-	-	-	-	-	-	-	82.04	88.8	110.39
7 Manipur Brow Antler Deer											
i.	Manipur	33.96	-	-	-	27.82	79.15	113.38	128.48	131.16	124.71
8 Dugong											
i.	Andaman and Nicobar Islands	-	-	18.61	-	36.93	-	-	27.87	-	-
9 Wild Buffalo											
i.	Chhattisgarh	-	-	-	13.75	95.17	101.1	-	-	152.3	-
10 Jerdon's Courser											
i.	Andhra Pradesh	-	-	-	-	-	63.31	-	-	-	-
11 Marine turtle											
i.	Goa	-	-	-	-	-	-	-	-	30.72	-
12 Great Indian Bustard											
i.	Maharashtra	-	-	-	-	-	-	110.63	135.85	85.32	134.09
ii.	Rajasthan	-	-	-	-	-	-	65.36	120.65	121.39	-
13 Rhinoceros											
i.	West Bengal	-	-	-	-	-	-	-	-	107.86	40.44
ii.	Uttarakhand	-	-	-	-	-	-	-	-	300.6	-
14 Dolphin											
i.	Bihar	-	-	-	-	-	-	-	-	6.79	100.33
15 Fresh Water Turtle											
i.	Bihar	-	-	-	-	-	-	-	-	23.25	-
16 Red Panda											
i.	West Bengal	-	-	-	-	-	-	-	-	-	54.37
Total		72.95	858.55	807.98	182.72	183.86	297.12	446.66	709.56	2,297.61	2,674.63

Source: Wildlife division, MoEF&CC, Gol.

Table 6.6.2. provides the funds given to the states under IDWH scheme (comprising all the three components of IDWH). There has been inconsistent funding under this scheme over the entire period of reporting. Two UTs (Dadar and Nagar Haveli and Daman and Diu) received no fund, therefore, not included in the Table 6.6.2. Two states, namely, Punjab and Tripura received INR 0.25 and 0.03 Cr, respectively only in the year 2010-11. Likewise, Puducherry, an UT received only INR 0.12 Cr during 2014-15. If funding was averaged over the entire reporting period, then, Kerala was the highest beneficiary of IDWH fund amounting to INR 89.32 Cr (11% of the total amount received during reporting period). It was distantly followed by Gujarat that was given INR 76.10 Cr. Tripura received minimum amount of INR 0.03 Cr during the reporting period among the states received the fund. Puducherry, an UT, had minimum share of INR 0.12 Cr.

Table 6.6.2. Funding (INR Cr) under IDWH scheme

S. no	State/UT	Year								
		2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
1.	Andaman and Nicobar Islands	0.88	1.27	1.09	1.50	0.00	1.00	1.18	1.42	1.91
2.	Andhra Pradesh	0.64	0.72	1.80	0.00	0.63	0.00	0.00	0.00	0.75
3.	Arunachal Pradesh	2.13	1.68	1.63	2.20	0.00	3.04	2.57	2.70	3.44
4.	Assam	1.87	2.34	1.46	1.39	1.49	0.87	0.00	2.76	2.65
5.	Bihar	0.20	0.00	0.65	0.35	0.85	1.08	1.01	3.23	7.49
6.	Chandigarh	0.12	0.20	0.00	0.00	0.00	0.00	0.26	0.26	0.00
7.	Chhattisgarh	2.82	2.42	4.50	4.09	4.82	2.13	2.79	4.35	3.51
8.	Goa	0.33	0.21	1.48	0.00	0.00	0.00	0.00	0.86	0.00
9.	Gujarat	11.07	11.27	5.18	5.38	6.35	3.96	4.98	5.59	22.32
10.	Haryana	0.15	0.29	0.52	0.00	0.15	0.99	1.25	1.81	1.55
11.	Himachal Pradesh	2.54	2.42	3.19	4.76	4.30	4.32	2.80	2.37	3.70
12.	Jammu and Kashmir	5.37	4.45	5.06	4.86	5.07	3.54	3.37	5.78	4.92
13.	Jharkhand	0.64	0.64	0.82	0.98	1.01	0.19	0.00	0.96	0.51
14.	Karnataka	4.12	3.36	4.35	3.51	4.84	2.62	3.26	4.28	6.53
15.	Kerala	3.67	9.42	12.10	5.06	8.18	9.67	19.28	9.01	12.93
16.	Madhya Pradesh	6.35	5.06	4.68	4.54	3.71	3.95	3.22	13.79	9.12
17.	Maharashtra	3.43	3.22	4.26	4.71	4.03	2.78	4.97	8.08	10.31
18.	Manipur	0.88	0.87	0.74	0.81	1.29	2.49	3.40	4.26	4.06

S. no	State/UT	Year								
		2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19
19.	Meghalaya	0.58	0.44	0.22	0.26	0.45	0.38	0.55	1.14	3.12
20.	Mizoram	7.08	1.53	0.96	2.10	1.32	0.95	12.35	4.87	4.30
21.	Nagaland	0.34	0.30	0.26	0.15	0.85	2.35	3.58	5.66	8.82
22.	Odisha	3.15	3.31	3.68	3.42	3.50	2.47	2.80	3.43	4.99
23.	Punjab	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24.	Rajasthan	3.48	2.91	4.78	4.31	3.67	3.15	4.54	6.22	5.85
25.	Sikkim	1.84	1.32	1.78	1.29	1.69	2.90	1.46	2.02	3.94
26.	Tamil Nadu	3.34	0.25	2.58	2.78	2.81	1.13	0.00	3.95	3.84
27.	Telangana	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	0.00
28.	Tripura	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29.	Uttar Pradesh	2.96	2.04	3.19	3.24	2.25	2.35	2.51	3.87	1.20
30.	Uttarakhand	1.35	2.01	2.20	3.26	1.41	1.88	5.45	39.11	17.64
31.	West Bengal	2.76	2.46	1.64	1.84	1.09	1.01	2.38	6.58	9.61
32.	Puducherry	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
33.	Lakshdweep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.46
34.	Delhi	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.52
Total		74.66	66.43	74.80	66.78	65.88	61.20	89.95	150.00	165.00

Source: Wildlife Division, MoEF&CC, Govt.

6.7 SOME MAJOR PROJECTS IN SFDs

Twenty two main projects have been reported in Table 6.7.1. Eighteen out of 22 projects are funded by Japan International Cooperation Agency (JICA) and the others by AFD, KfW and GIZ. Among JICA projects, Haryana took the lead way back in the year 2004-05 with an amount of INR 286.00 Cr. The latest project (2018-19 to 2027-28) is run by Himachal Pradesh and Tripura amounting to INR 800.00 Cr and INR 998.40 Cr, respectively. Till date; Rajasthan has the largest project of JICA worth INR 1,152.53 Cr (2011-12 to 2020-21). The JICA projects, in general, are confined to afforestation, biodiversity conservation and wildlife, poverty alleviation, capacity building, catchment management etc. The projects other than JICA are run by the states of Himachal Pradesh (GIZ & KfW) and Assam (AFD).

Table 6.7.1. Details of the major projects in the states

Donor	Project name	Project components	Project duration	Budget (INR Cr)	Implementing agency
JICA	West Bengal Forestry and Biodiversity Conservation Project	<ol style="list-style-type: none"> 1. Afforestation 2. Biodiversity conservation 3. Community development 4. Institutional capacity development 	2012-13 to 2019-20	406.66	West Bengal
JICA	Rajasthan Forestry and Biodiversity Project (Phase-II)	<ol style="list-style-type: none"> 1. Afforestation 2. Agro forestry 3. Water conservation structures 4. Biodiversity conservation 5. Community mobilization 6. Poverty alleviation and livelihood improvement 7. Capacity building, training & research 8. Monitoring and evaluation 9. Consulting services 	2011-12 to 2020-21	1,152.53	Rajasthan
JICA	Tamil Nadu Biodiversity Conservation and Greening Project	<ol style="list-style-type: none"> 1. Biodiversity conservation 2. Increasing the natural resource base 3. Institutional capacity development 4. Consulting services 	2011-12 to 2019-20	686.12	Tamil Nadu
JICA	Sikkim Biodiversity Conservation and Forest Management Project	<ol style="list-style-type: none"> 1. Forest and biodiversity conservation 2. Eco – tourism 3. Joint Forests Management 4. Supporting activities 5. Consulting services 	2010-11 to 2019-20	330.57	Sikkim
JICA	Capacity Development for Forest Management and Training of Personnel	<ol style="list-style-type: none"> 1. To improve training environment for frontline staff through the rehabilitation of states 2. Forest Training Institutes and through capacity building of frontline forestry staff putting emphasis on joint forests management (JFM), thereby, strengthening human resource development for sustainable forest management 	2008-09 to 2013-14 (5 year and 3 months)	225.00	MoEF&CC, Directorate of Forest Education, Arunachal Pradesh, Assam, Bihar, Chhattisgarh, Jharkhand, Kerala, Madhya Pradesh, Maharashtra, Mizoram, Uttarakhand and W. Bengal

Donor	Project name	Project components	Project duration	Budget (INR Cr)	Implementing agency
JICA	Uttar Pradesh Participatory Forest Management and Poverty Alleviation Project	<ol style="list-style-type: none"> 1. Plantations, regeneration of forests, etc. 2. Institutional strengthening of PMU/DMUs/FMUs 3. Rehabilitation of Forest Training Institute at Lucknow. 4. Communication and Publication 5. Monitoring and Evaluation 6. Physical Contingency 7. Consulting Services 	2008-09 to 2015-16	575.00	Uttar Pradesh
JICA	Gujarat Forestry Development Project (Phase II)	<ol style="list-style-type: none"> 1. Preparatory works 2. Departmental forest development and management 3. JFM forest development and management 4. Social forestry development and management 5. Forest research 6. Communication and publication 7. Wildlife conservation and management 8. Monitoring and evaluation 9. Phase-out works 10. Consulting price and physical cont. 	2007-08 to 2014-15	830.00	Gujarat
JICA	Odisha Forestry Sector Development Project	<ol style="list-style-type: none"> 1. Protection and conservation of biodiversity of forests 2. Improving productivity of natural forests 3. Providing livelihood options for the people (Support to VSS) 4. Eco-development and ecotourism activities 5. Catering to commercial and industrial demands 6. Capacity building of the forest department 	2006-07 to 2012-13	660.00	Odisha
JICA	Odisha Forestry Sector Development Project (Phase-II)	<ol style="list-style-type: none"> 1. Protection and conservation of biodiversity of forests 2. Improving productivity of natural forests 3. Providing livelihood options for the people (Support to VSS) 4. Eco-development and ecotourism activities 5. Catering to commercial and industrial demands 6. Capacity building of the forest department 	2017-18 to 2026-27	998.258	Odisha

Donor	Project name	Project components	Project duration	Budget (INR Cr)	Implementing agency
JICA	Karnataka Sustainable Forest Management & Biodiversity Conservation Project	<ol style="list-style-type: none"> 1. Afforestation 2. Income generation activities for poverty alleviation 3. Biodiversity conservation 4. Provision of basic infrastructure support for field work. 5. Supporting activities for forest management (research and training, consultancy, and enhancement of geographic information system (GIS) and management information system (MIS) 	2005-06 to 2012-13	745.00	Karnataka
JICA	Tamil Nadu Afforestation Project (Phase-II)	<ol style="list-style-type: none"> 1. Integrated watershed development 2. Integrated tribal development 3. Forestry extension 4. Urban forestry 5. Capacity building research support 6. Human resources development 7. Establishment of modern nurseries 8. Improving the infrastructural facilities 9. Administration 10. Monitoring and evaluation 	2005-06 to 2012-13	567.00	Tamil Nadu
JICA	Integrated Natural Resources Management and Poverty Reduction Project in Haryana	<ol style="list-style-type: none"> 1. Soil and water conservation 2. Plantation model and nursery development 3. Poverty reduction and institution building 4. Technical assistance 5. Supporting activities 6. Administration staff. 	2004-05 to 2010-11	286.00	Haryana
AFD	Assam Project on Forest and Bio-diversity Conservation	<ol style="list-style-type: none"> 1. Institutional strengthening 2. Multi-level strategic planning 3. Sustainable forest management 4. Adding value and opening markets/ opportunities for forests and biodiversity goods and services 	2012-13 to 2016-17	390.00	Assam

Donor	Project name	Project components	Project duration	Budget (INR Cr)	Implementing agency
AFD	Assam Project on Forest and Biodiversity Conservation – (Phase II)	<ol style="list-style-type: none"> 1. Institutional strengthening 2. Multi-level strategic planning 3. Sustainable forest management 4. Adding value and opening markets/ opportunities for forests and biodiversity goods and services 	2019-20 to 2024-25	329.40	Assam
JICA	Uttarakhand Forest Resource Management Project	-	2014-15 to 2023-24	807.00	Uttarakhand
JICA	Japanese Technical Cooperation Project for Natural Disaster Management in Forest Area of Uttarakhand	-	2016-17 to 2020-21	100% Grant Mode	Uttarakhand
JICA	Swan River Integrated Watershed Management Project	<ol style="list-style-type: none"> 1. Afforestation 2. Civil work for soil & river management 3. Soil protection & land reclamation 4. Livelihood improvement 5. Institutional development 	2006-07 to 2013-14	162.00	Himachal Pradesh
KfW	Himachal Pradesh Forest Ecosystems Climate Proofing Project	-	2016-17 to 2020-21	800.00	Himachal Pradesh
GIZ	Himachal Pradesh Forest Ecosystem (HPFES) - Technical Cooperation Project	-	2015-16 to 2019-20	40.15	Himachal Pradesh
JICA	Himachal Pradesh Forest Ecosystem Management & Livelihood	-	2018-19 to 2027-28	800.00	
JICA	Nagaland Forest Management Project	-	2017-18 to 2026-27	533.00	Nagaland
JICA	Sustainable Forest and Catchment Management in Tripura	-	2018-19 to 2027-28	998.40	Tripura